APNIC EC Meeting Minutes

Face-to-Face meeting, Manila, Philippines

Saturday, 25 February 2023, 09:17 – 18:05 (UTC +8)
Sunday, 26 February 2023, 08:32 – 09:42 (UTC +8)
Thursday, 2 March 2023, 16:15 – 16:21 (UTC +8)

Meeting started at 09:17 (UTC +8), Saturday, 25 February 2023

Present

Gaurab Raj Upadhaya, EC Chair (in person on 25-26/02, not a member on 02/03)
Kenny Huang, Treasurer
Vincent Achie Atienza, Secretary
Kam Sze Yeung, EC member
Sumon Ahmed Sabir, EC member
Yoshinobu Matsuzaki, EC member
Feng Leng, EC member (in person on 25-26/02, not a member on 02/03)
Roopinder Singh Perhar, EC member (not a member on 25-26/02, in person on 02/03)
Anlei Hu, EC member (not a member on 25-26/02, in person on 02/03)
Paul Wilson, Director General

Connie Chan, Strategic Executive Assistant (minutes)
Craig Ng, General Counsel
Nathan Harvey, Finance Director
Jeremy Harrison, Senior Legal Counsel
Tony Smith, Planning and Communications Director

Apologies

Nil

Agenda

1. Opening of meeting and declaration of quorum
2. Agenda bashing
3. Declaration of interests
4. Review of minutes of last meeting and record of circular resolutions passed since the last meeting
5. Matters arising from the last meeting
6. EC Chair update
7. WH&S update
8. Financial reports
9. HR report
10. Planning update
11. Conference update
12. Legal and governance
13. APNIC Foundation update
14. APIDT update
15. Secretariat report
16. APNIC Foundation update (continued)
17. Investment (continued)
18. Risk register
19. AGM agenda
20. Any other business
21. Closing the meeting

22. Appointment of officeholders
23. Next meeting

Minutes

1. Opening of meeting and declaration of quorum

The Chair of the Executive Council (EC Chair) welcomed all attendees to the meeting. The EC Chair declared the meeting open at 09:17 (UTC +8) on Saturday, 25 February 2023, and noted that a quorum was present.

2. Agenda bashing

The EC Chair called for comments on the agenda. There were no new agenda items raised.

3. Declaration of interests

The EC Chair asked the EC members to review the Register of Interests (attached), declare any potential conflicts of interests, and for any such declaration to be recorded in the minutes.

Vincent Achie Atienza noted that he had been elected to the AORA Board.

Paul Wilson noted that he serves on the Advisory Council of Dot Asia.

All other EC members present confirmed their entries in the Register of Interests were complete and correct.

4. Review of minutes of last meeting and record of circular resolutions passed since the last meeting

The following circular resolutions (that require the agreement of all EC members who are entitled to vote on the resolution) were passed by the EC during the period between the last EC meeting and this meeting and are recorded in these minutes for completeness.

Resolution 2023-01: The EC resolved to adopt the minutes of the EC meeting of 5 to 7 December 2022.

Resolution 2023-02: The APNIC EC resolved that:

- **the resignation of Anne Lord as APNIC Election Nominee Code of Conduct Chair be immediately accepted;**
- **Maddocks Lawyers (Melbourne, Australia) be appointed immediately to this position in her place; and**
- **this appointment will continue until changed by a future decision of the APNIC EC.**

5. Matters arising from the last meeting

The following matters from the previous meeting were to be completed. Updates on the actions are provided below where relevant.

Action item 2022-10: APNIC Legal to work towards a NIR agreement to incorporate RPKI provisions (pending).

[Confidential information redacted]

Action item 2022-16: Nathan Harvey to prepare a proposal for the EC to consider moving the funds to a balanced portfolio, extending SRI cover to indirect investments, and putting returns from the portfolio into a lower risk fund. The appropriate start date is to be determined as soon as is feasible, or it could be discussed at next EC meeting (Completed – Refer to agenda item 8).

Action item 2022-17: The Secretariat to use a pie chart to show the Member income by economy (to contrast against Member numbers by economy chart). (Completed)

Action item 2022-18: The Secretariat to compare the financial position against 2018-2019 to see whether the growth trend matches 2022 (excluding the anomalies of 2020-2021). (Completed)

Action item 2022-19: The Secretariat to arrange for a suitable date for the proposed joint APNIC EC and Foundation Board meeting (Completed).

Action item 2022-20: The Secretariat to report back to the EC on the Five-9s program at the February EC meeting (Refer to agenda item 12).

Action item 2022-21: The Secretariat to table a proposal of on-charging merchant fees at the February EC meeting (Refer to agenda item 8).

Action item 2022-22: The EC requested an overview of what has and has not worked under the current strategic plan to help inform the approach of the new strategy (Refer to agenda item 10).

6. EC Chair update

The EC Chair provided the EC Chair update.

The EC Chair emphasized the importance of the EC remaining neutral and balanced in the conduct of the elections. The Chair also emphasized the importance of maintaining the confidentiality of EC meetings and related discussions.

7. WH&S update

Kam Sze Yeung spoke to the Workplace Health and Safety quarterly update.

The EC Chair noted that Kam Sze Yeung had been providing the WH&S updates to the EC for a significant period, and recommended appointing Vincent Achie Atienza to the role. Vincent Achie Atienza accepted the role to present the WH&S reports moving forward.

The EC Chair thanked Kam Sze Yeung for his work in presenting the WH&S updates in the past few years.

8. Financial reports

Nathan Harvey spoke to the annual financial report presentation (attached).

The EC noted and discussed the annual financial report for the year ended 31 December 2022. The EC noted APNIC's equity position of AUD 35.6M, represents an 8% decrease

in total net assets through 2022. Total revenue was AUD 30.3M and total expenses were AUD 30.6M for the year. The operating results for the year was an operating deficit of AUD 301K which was AUD 501K below the original budget operating deficit.

As of 31 December 2022, APNIC had a total of 9,268 Members serving 53 economies. There were 841 new and reactivated Members and 341 Members who had closed their accounts, representing a net increase of 500 Members during 2022.

The EC noted that the value of APNIC's investment portfolio was reduced by AUD 4M in 2022. The decline of the investment portfolio was due to market volatility, and that was a 'book loss' only.

The EC discussed APNIC's capital reserve at length and noted that the reduction in the reserve from 2021 to 2022 was due to the devaluation of the investment portfolio.

The EC discussed the revaluation of 6 Cordelia Street, which could significantly change the book value of the asset on the balance sheet. It was noted that APNIC must comply with the Australian Accounting Standards to enable a consistent approach to asset valuation. It was noted that if the new valuation was adopted (subject to the final report being consistent with the draft valuation), it would need to be repeated every few years to maintain currency.

> *Action item 2023-01: The Secretariat to provide a more detailed analysis of the revaluation of 6 Cordelia Street for the EC's consideration at the next EC meeting.*

It was anticipated that Ernst & Young would issue an unmodified audit opinion on the financial report. There were no significant deficiencies noted in relation to internal controls.

The Treasurer thanked the Secretariat for its work in reducing the deficit to AUD 300K against the original budget deficit of AUD 801K.

> **Resolution 2023-03: The EC resolved to adopt the Special Purpose Financial Report for 2022 as representing the financial position of APNIC as at 31 December 2022, noting that APNIC is solvent and able to pay its debts as and when they fall due.**

Motion proposed by Kenny Huang; seconded by Vincent Achie Atienza. Passed unanimously.

> **Resolution 2023-04: The EC resolved to accept the Auditor's report (as tabled at the meeting).**

Motion proposed by Kenny Huang; seconded by Feng Leng. Passed unanimously.

Nathan Harvey presented the analysis completed for four investment portfolio scenarios. The EC discussed the proposed changes at length, and decided to defer the decision to later in the meeting to allow time for more discussion.

The EC considered the monthly financial report and the Investment Report for January 2023 (attached). The January financial report highlighted an operating surplus of AUD 325K.

The EC discussed the current CPI indicators in Australia. The EC requested an analysis be completed to show the CPI position in Australia compared to other economies in the Asia Pacific region.

Action item 2023-02: The Secretariat to provide details of the CPI position in Australia compared to other economies in the Asia Pacific region.

Meeting adjourned at 11:00 (UTC +8), Saturday, 25 February 2023

Meeting resumed at 11:21 (UTC +8), Saturday, 25 February 2023

9. HR report

Louise Tromp joined the meeting at 11:21 (UTC +8) and spoke to the HR report presentation.

[Louise Tromp left the meeting at 11:50 (UTC +8)]

10. Planning update

Tony Smith spoke to the Strategic Planning update presentation (attached).

The EC discussed the feedback on the previous strategic plan at length.

Tony Smith provided an outline on the timeline for the development of the next strategic plan, with LeaderShape engaging with the Secretariat and the EC to collect feedback before the formal EC meeting in May.

11. Conference update

Tony Smith spoke to the conference update presentation.

The EC discussed the conference location options for APNIC 58, to take place in Oceania based on the rotation policy.

[Confidential information redacted]

12. Legal and Governance

Craig Ng reminded the EC of the privileged nature of these discussions and the requirement to keep it in strict confidence.

Jeremy Harrison spoke to the Legal and Governance presentation.

[Confidential information redacted]

Meeting adjourned at 13:55 (UTC +8), Saturday, 25 February 2023

Meeting resumed at 14:25 (UTC +8), Saturday, 25 February 2023

13. APNIC Foundation update

Duncan Macintosh joined the meeting at 14:25 (UTC +8).

Duncan Macintosh spoke to the APNIC Foundation update presentation (attached).

Duncan Macintosh noted that the APNIC Foundation operational budget and plan had been approved by the Foundation board.

It was noted that the Joint Board meeting with the Foundation Board was scheduled for this afternoon at 15:00.

[Duncan Macintosh left the meeting at 14:39 (UTC +8)]

14. APIDT update

Richard Brown joined the meeting at 14:39 *(UTC +8).*

Richard Brown spoke to the APIDT update presentation (attached).

[Richard Brown left the meeting at 15:00 (UTC +8)]

Meeting adjourned at 15:00 (UTC +8), Saturday, 25 February 2023

Meeting resumed at 16:57 (UTC +8), Saturday, 25 February 2023

15. Secretariat Report

Che-Hoo Cheng joined the meeting at 16:57 (UTC +8).

The Director General spoke to the Secretariat Report presentation (attached). The full Secretariat report is available on the EC confluence page (attached).

The EC discussed several items in the Secretariat Report at length.

Che-Hoo Cheng presented on the Five-9s analysis presentation (attached). The main focus of the project was about the highly critical services, RPKI, RDNS and RDAP.

[Che-Hoo Cheng left the meeting at 18:05 (UTC +8)]

Meeting adjourned at 18:05 (UTC +8), Saturday, 25 February 2023

Meeting resumed at 08:32 (UTC +8), Sunday, 26 February 2023

16. APNIC Foundation update (continued)

> **Resolution 2023-09: The EC resolved that Paul Wilson be appointed as APNIC's representative at the 2023 Annual General Meeting of each of APNIC Foundation Limited (Hong Kong) and APNIC Foundation Limited (Australia), with the power to make decisions and to vote on such matters as he considers appropriate or expedient at such meeting.**

Motion proposed by Gaurab Raj Upadhaya; seconded by Sumon Ahmed Sabir. Passed unanimously.

Paul Wilson abstained from voting.

> **Resolution 2023-10: The EC resolved that each of: (1) Sylvia Efi Widyantari Sumarlin; (2) Sharad Kumar Sanghi; (3) Danish Ali Lakhani; and (4) Jun Murai be reappointed as a director of APNIC Foundation Limited (Hong Kong), subject to each of them first consenting and agreeing to be so appointed, and that Paul**

Wilson be authorized to sign any document or resolution on behalf of APNIC Pty Ltd to give effect to this resolution.

Motion proposed by Gaurab Raj Upadhaya; seconded by Sumon Ahmed Sabir. Passed unanimously.

Paul Wilson abstained from voting.

Resolution 2023-11: The EC resolved that each of: (1) Jun Murai; and (2) Duncan Macintosh be reappointed as a director of APNIC Foundation Limited (Australia), subject to each of them first consenting and agreeing to be so appointed, and that Paul Wilson be authorized to sign any document or resolution on behalf of APNIC Pty Ltd to give effect to this resolution.

Motion proposed by Gaurab Raj Upadhaya; seconded by Sumon Ahmed Sabir. Passed unanimously.

Paul Wilson abstained from voting.

17. Financial Reports (continued)

The EC further discussed the potential changes to the investment portfolio, particularly with regard to whether to move to a 'Balanced' portfolio in the current environment.

The EC decided to stay with a 'Yield' portfolio, to be reconsidered again in four years' time.

18. Risk register

Nathan Harvey spoke to the risk register presentation.

The EC provided some comments on the current risk register.

19. AGM agenda

The EC requested more time for the open mic sessions to allow for greater community discussion.

The EC considered the draft Annual General Meeting (AGM) agenda for APNIC 55 (attached).

Resolution 2023-12: The EC resolved to approve the draft agenda for the Annual General Meeting of 2 March 2023.

Motion proposed by Gaurab Raj Upadhaya; seconded by Kenny Huang. Passed unanimously.

20. Any other business

The Meeting Chair called for any other business.

a. AFRINIC update

Paul provided an update on the situation with AFRINIC.

b. APIDT

[Confidential information redacted]

c. Thanks to retiring EC members

The Director General proposed a vote of thanks to retiring EC members, Feng Leng and Gaurab Raj Upadhaya, for their contributions to APNIC and the APNIC EC.

Resolution 2023-14: The EC resolved to express their sincere appreciation and deepest gratitude to Feng Leng for his two years of service to the APNIC EC and APNIC community.

Motion proposed by Paul Wilson; seconded by Kenny Huang. Passed unanimously. Feng Leng abstained from voting.

Resolution 2023-15: The EC resolved to express their appreciation and heartfelt thanks to Gaurab Raj Upadhaya for 12 years of dedication and contributions to APNIC, the APNIC EC and the Internet community respectively. Best wishes for his future endeavours.

Motion proposed by Paul Wilson; seconded by Sumon Ahmed Sabir. Passed unanimously.

Gaurab Raj Upadhaya abstained from voting.

21. Closing the meeting

The EC Chair thanked everyone for their contributions to the meeting.

Meeting adjourned at 09:42 (UTC +8), Sunday, 26 February 2023

Meeting resumed at 16:15 (UTC +8), Thursday, 2 March 2023

Anlei Hu and Roopinder Singh Perhar joined the meeting.

22. Appointment of officeholders

The EC welcomed the newly-elected EC members, Anlei Hu and Roopinder Singh Perhar.

The EC held officer elections, to take office immediately following the Annual General Meeting. In accordance with the EC Procedures, the Director General assumed the role of Chair of the Meeting. The presence of a quorum was noted.

Nominations were called for the position of Chair of the EC. Kam Sze Yeung nominated Kenny Huang. There were no other nominations. Kenny Huang was elected unopposed as the Chair of the EC.

Kenny Huang assumed the role of Meeting Chair.

Nominations were called for the position of Secretary. Kam Sze Yeung nominated Vincent Achie Atienza. There were no other nominations. Vincent Achie Atienza was elected unopposed as the Secretary of the EC.

Nominations were called for the positions of Treasurer. Kenny Huang nominated Yoshinobu Matsuzaki. There were no other nominations. Yoshinobu Matsuzaki was elected unopposed as the Treasurer of the EC.

23. Next meeting

The next EC meeting is scheduled for 16-17 May 2023; and the strategic planning session is scheduled for 18-19 May in Brisbane, Australia.

Meeting closed at 16:21 (UTC +8) Thursday, 2 March 2023

Attachments:

A. **Register of interest**
B. **[Confidential information redacted]**
C. **2022 special purpose financial report**
D. **2022 annual financial report and presentation**
E. **January 2023 financial report**
F. **December 2022 and January 2023 investment reports and commentary**
G. **[Confidential information redacted]**
H. **Planning update**
I. **[Confidential information redacted]**
J. **[Confidential information redacted]**
K. **APNIC Foundation update presentation**
L. **APIDT update presentation**
M. **Secretariat report and presentation 2022**
N. **Five-9 analysis presentation**
O. **APNIC Annual Report 2022**
P. **APNIC Activity Plan 2023**
Q. **[Confidential information redacted]**
R. **APNIC 55 AGM draft agenda**

Agenda Item 3
Declaration of Interests

APNIC EC Register of Interests

Declaration of interests of EC members

This register records the interests of EC members, which may conflict with the EC members' duties to APNIC. This register is accurate as at **25 February 2023**.

Gaurab Raj Upadhaya declared that he currently holds the following positions:

- Employee of Amazon as Head of Global Video Delivery, Prime Video
- Founder of the Nepal Research and Education Network (NREN)
- Founder of Nepal Internet Exchange (NPIX)
- Standing member of the Program Committee of SANOG
- Board Member of Internet Foundation Nepal

Kam Sze Yeung declared that he currently holds the following positions:

- Member of the HKNOG Program Committee
- Employee of Akamai Technologies, Inc
- Member of the Working Group of Peering Asia
- Member of the TWNOG Multi-stakeholder Steering Group (MSG)
- Member of the SGNOG Organising Committee

Kenny Huang declared that he currently holds the following positions:

- Managing Director and CEO of TWNIC
- Member of the Advisory Council of DotAsia Organization
- Chair of NIIEPA
- Chair of ICANN ccPDP4 WG
- Co-Chair of ICANN CGP
- Board of Director of TWIA
- Board of Director of TWIGF

Yoshinobu Matsuzaki declared that he currently holds the following positions:

- Employee of Internet Initiative Japan Inc. (IIJ) as a Senior Engineer
- Board of Director of JPNIC
- Board of Director of APNOG/APIA
- Member of JANOG Committee
- Technical Advisor of JPCERT/CC
- Contact person at IIJ Europe (RIPE member) for RIPE
- TAC (Technical Advisory Council) of Team Cymru, Inc.

Feng Leng declared that he currently holds the following position:

- Employee of CNNIC as Director of Operation Management Department

Vincent Achie Atienza declared that he currently holds the following positions:

- Employee of Globe Telecom (Peering, Interconnection & Strategy - IP Ecosystem)

- Chair of the Philippine Network Operators Group (PhNOG)
- Member, Board of Trustee, Internet Society Philippines (ISOC-Ph)
- Member of Ph Technical working group for IPv6, DNSSEC, RPKI
- Member (Ph Representative) - APIX - Asia Pacific Internet Exchange Association)
- Member/Evangelist - Philippine Open Internet eXchange (PhOpenIX)
- Member of the Program Committee of APRICOT
- Program Committee Member - Asia Peering Forum (Equinix) 2022
- Program Committee co-initiator, ISOC-PhNOG initiatives 2022
- ISIF Selection Committee Member
- AORA Board Member 2023

Sumon Ahmed Sabir declared that he currently holds the following positions:

- CTO, Fiber@Home Limited
- Technical Advisor, Fiber@Global Limited
- Advisor, Felicity IDC Limited
- Sponsor of BDCOM Online Limited
- Member, Board of Trustee, BDIX
- Member, Board of Trustee, BDNOG
- Member, Corecom, SANOG
- Member, Board of Trustee, ISOC, Bangladesh, Dhaka Chapter

Paul Wilson declared that he currently holds the following position:

- Director of APIDTT Pty Ltd (trustee for the Asia Pacific Internet Development Trust)
- Director of APIDT Infrastructure Pty Ltd
- Member, Advisory Council of DotAsia

Agenda Item 8
Financial reports

Finance Report (to January 2023)

EC Meeting
25 February 2023
Manila, The Philippines

All dollar values are denoted in Australian dollars (unless otherwise stated)

Finance Presentation

- **2022 Full Year Financial Performance**

- **EC Action Items:**
  - **2022-16: Credit Suisse Investment Portfolio Risk Assessment**
  - **2022-17: Membership income per economy**
  - **2022-18: Growth comparison**
  - **2022-21: Merchant fees**

- **2023 YTD Financial Performance (January only)**

2022 FINANCIAL REPORT

2022 Financial Highlights

TOTAL REVENUE (2022 ACT)	OPERATING EXPENSE (2022 ACT)	OPERATING DEFICIT (2022 ACT)	TOTAL EQUITY (DEC 2022)
$30,279,516	**$30,580,151**	**-$300,634**	**$35,585,302**
$32,962,915	$33,764,411	-$801,496	$38,845,560
▼ **-8.14%**	▼ **-9.43%**	▲ **62.49%**	▼ **-8.39%**

FINANCIAL PERFORMANCE

►
  ► Membership revenue: 0.7% behind budget.
  ► Total income excluding Foundation: 0.3% behind budget.
  ► Total expenditure excluding Foundation: 1.9% behind budget.
  ► Foundation projects: 41.8% behind budget.
    Investment: Fair value loss of $4.0M YTD.

FINANCIAL POSITION

►
  ► Cash and current assets of $13.3M is down 0.7% from LY.
  ► Financial investment of $33.2M is down 9.7% from LY.
  ► Total liabilities of $18.0M is down 1.7% from LY.
    Financial stability of 15.9 months coverage is down from 18.3 months LY.
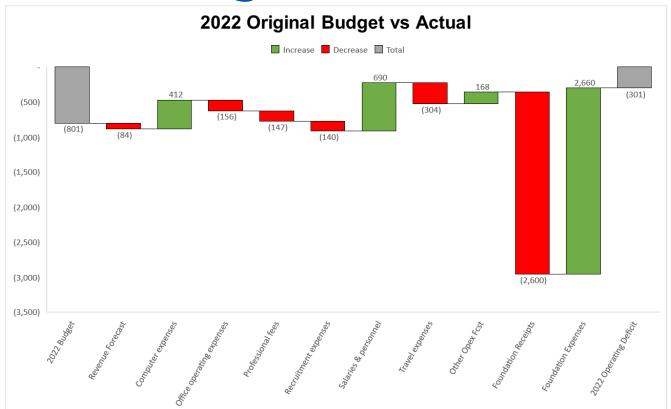
Financial Performance – Summary

Expenses (AUD)	2022 Actual	2021 Actual	Year-on-Year Change(%)	2022 Budget	Actual vs Budget (%)
Total Revenue	30,279,516	26,420,957	15%	32,962,915	-8%
Total Expenses	30,580,151	22,819,252	34%	33,764,411	-9%
OPERATING (DEFICIT) / SURPLUS	(300,634)	3,601,705	-108%	(801,496)	62%
Revaluation of Financial Assets	(4,028,706)	1,061,285	-480%	0	0%
(DEFICIT) / SURPLUS BEFORE TAX	(4,329,340)	4,662,990	-193%	(801,496)	-440%
Income Tax expense	(1,069,082)	(5,687)	18699%	0	0%
NET (DEFICIT)/ SURPLUS FOR THE YEAR	(3,260,258)	4,668,677	-170%	(801,496)	-307%

- **Operating deficit of $300,634 vs budget deficit of $801,496**

- **Deficit after revaluation of financial asset of $4,329,340**

2022 Budget vs. Actual Result

2022 Original Budget vs Actual

Legend: Increase (green), Decrease (red), Total (gray)

- 2022 Budget: (801)
- Revenue Forecast: (84)
- Computer expenses: 412
- Office operating expenses: (156)
- Professional fees: (147)
- Recruitment expenses: (140)
- Salaries & personnel: 690
- Travel expenses: (304)
- Other Opex Fcst: 168
- Foundation Receipts: (2,600)
- Foundation Expenses: 2,660
- 2022 Operating Deficit: (301)

Revenue:
- Membership revenue <190K Investment revenue <35K
- Sundry income >141K

Computer expense:
- Capacity constraints
- Deferral of activities to 2023

Office operating:
- Replacement of end-of-life furniture / workspace remodeling >$89K
- Year-end review of fixed assets register >$79K.

Professional fees:
- HRIS implementation (budgeted as capex)
- Contractor costs offset in salaries & personnel costs

Recruitment expenses:
- Unbudgeted relocation of 3 staff members

Salaries & personnel
- Recruitment challenges, delayed the start dates of new positions, and
- Replacement roles (partial vacancies).

Travel
- Capacity and pricing volatility,

Foundation funding:
- Refer detailed commentary

Financial Performance – Revenue

- **Membership fees**
  - Lag indicator – membership is recognised over 12 months
  - $24,717,563 actual vs $24,799,617 budget

- **Sign-up fees**
  - Lead indicator – impacts membership fees into the future
  - $258,750 actual vs $315,985 budget

- **Foundation receipts**
  - $3,762,837 actual vs $6,362,600 budget
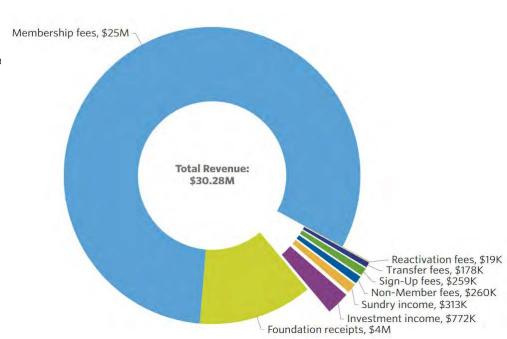
- **Investment income**
  - $771,547 actual vs $806,229 budget
  - CS investment income $119,187 lower than budget
  - Interest income $84,505 higher than budget due to term deposit rates improvement

- **Total revenue**
  - $30,279,516 actual vs $32,962,915 budget
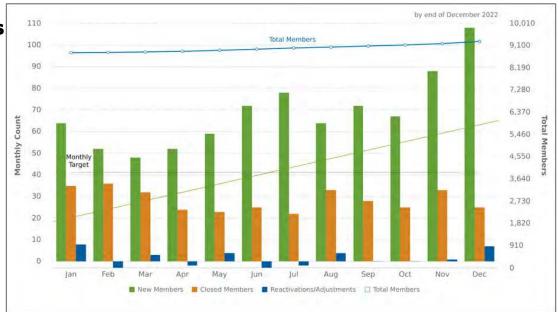
APNIC Revenue
by end of December 2022

Membership fees, $25M

Total Revenue:
$30.28M

Reactivation fees, $19K
Transfer fees, $178K
Sign-Up fees, $259K
Non-Member fees, $260K
Sundry income, $313K
Investment income, $772K
Foundation receipts, $4M

Membership – 12 month rolling trend
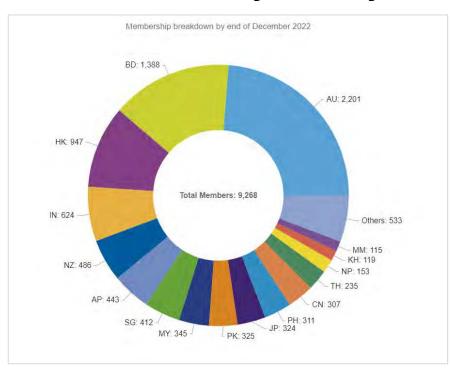
- **824 new members vs 804 budget**
  - Including 150 HRM account holders

- **341 closed members vs 312 budget**

- **$1,226 average new member fee vs $1,435 budget**

- **33.4% LDC vs 30% budget**
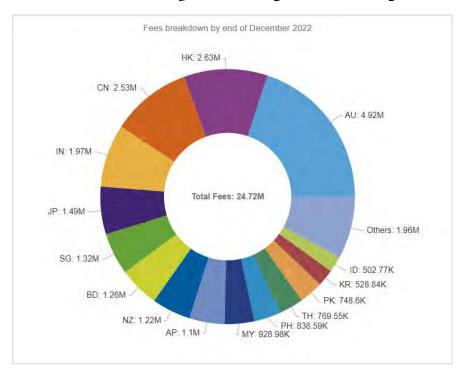
Membership – by economy

No. of members by economy

Membership breakdown by end of December 2022

Total Members: 9,268

BD: 1,388
AU: 2,201
HK: 947
IN: 624
NZ: 486
AP: 443
SG: 412
MY: 345
PK: 325
JP: 324
PH: 311
CN: 307
TH: 235
NP: 153
KH: 119
MM: 115
Others: 533

Membership fees by economy

Fees breakdown by end of December 2022

Total Fees: 24.72M

HK: 2.63M
CN: 2.53M
IN: 1.97M
JP: 1.49M
SG: 1.32M
BD: 1.26M
NZ: 1.22M
AP: 1.1M
MY: 928.98K
PH: 838.59K
TH: 769.55K
PK: 748.6K
KR: 528.84K
ID: 502.77K
AU: 4.92M
Others: 1.96M
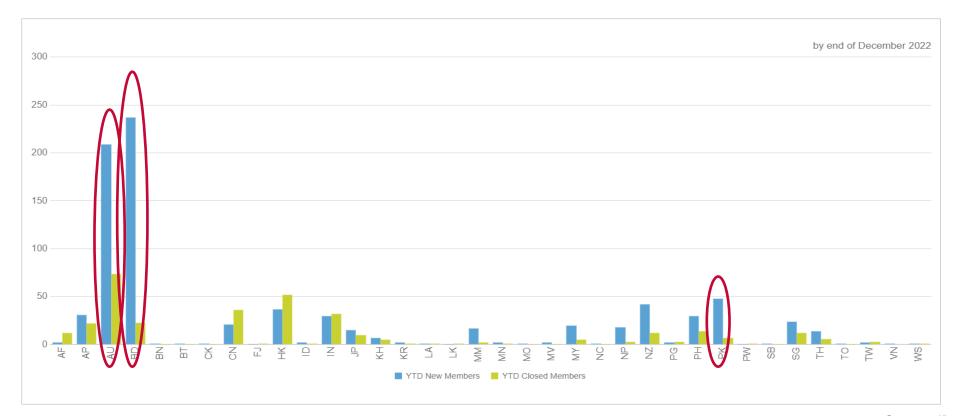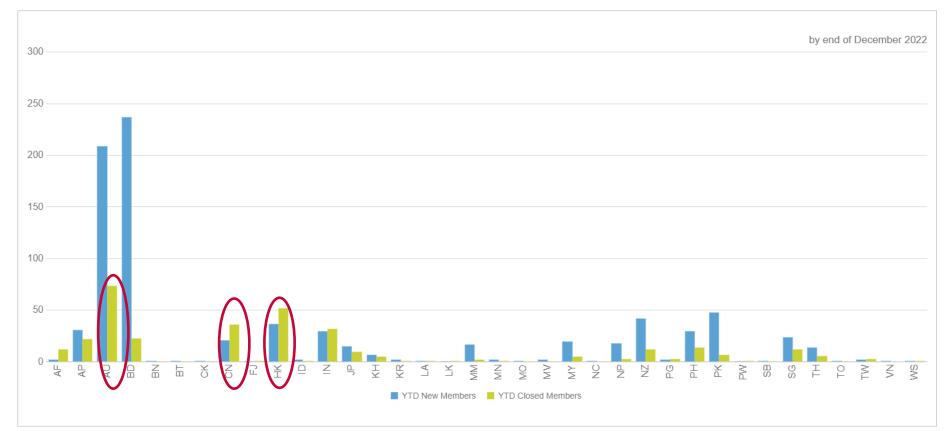
Membership – new members by economy

by end of December 2022

Membership – closures by economy

Membership – by tiers

Membership	Total Dec-21	YTD New Dec-22	Reactivation Adjustment	YTD Closed Dec-22	YTD Size Change Dec-22	Total Dec-22	% Total
Extra Large	26	0	0	0	1	27	0%
Very Large	49	1	0	0	(1)	49	1%
Large	151	2	0	0	5	158	2%
Medium	548	4	(1)	(5)	25	571	6%
Small	3,733	163	1	(159)	29	3,767	41%
Very Small	4,126	482	7	(139)	(88)	4,388	47%
Associate	135	172	10	(38)	29	308	3%
TOTAL	8,768	824	17	(341)	0	9,268	100%

- **Size Changes**
  - **Extra large +1: Effective charging of allocated v6 experimental resources, size change from large to extra large**
  - **Very large -1: APIDTT-AU size change from very large to associate**
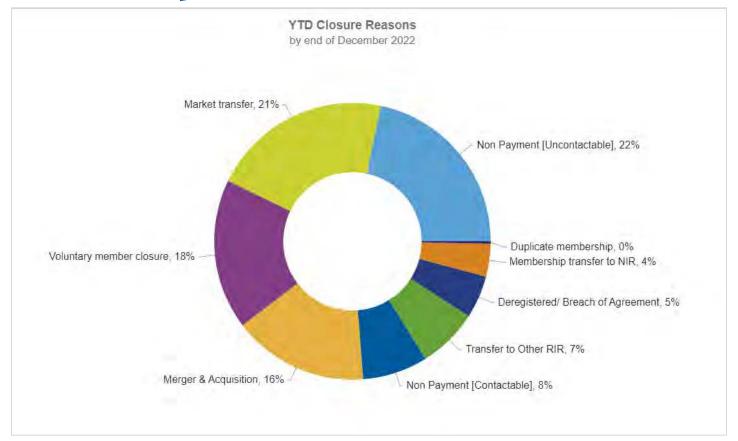
- **HRM**
  - **New Associate members include 150 HRM accounts**

Membership – closure reasons

YTD Closure Reasons
by end of December 2022

- Market transfer, 21%
- Non Payment [Uncontactable], 22%
- Duplicate membership, 0%
- Membership transfer to NIR, 4%
- Deregistered/ Breach of Agreement, 5%
- Voluntary member closure, 18%
- Transfer to Other RIR, 7%
- Merger & Acquisition, 16%
- Non Payment [Contactable], 8%

Membership – closure reasons

Cancellation trend by closure reason

Membership – closure by economy

Economy	Deregistered / Breach of Agreement	Duplicate membership	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Non Payment [Contactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
AF					6	2		4		12	51	1	12
AP	1		2		2	5	2	3	7	22	11	14	17
AU		1	13		24	7	6	18	5	74	52	17	34
BD	1		12		1	3	1	3	2	23	10	11	22
CN	2		11		3	9	3	4	4	36	89	22	16
HK	11		19		4	9	1	6	2	52	116	27	36
ID				1						1			1
IN			4	11	5	4	5	1	2	32	17	9	11
JP					4	4		2		10	18	0	1
KH			2			1		2		5	8	3	6
LA						1				1	4		1
LK								1		1	2	0	1
MM						2				2	9	1	2
MY			1		1	2		1		5	2	1	3
NZ			3		3	1		5		12	12	4	5
PG					2			1		3	2		2
PH			1	1	1	6	1	3	1	14	17	2	11
PK			2			3	1	1		7	14	4	5
PW								1		1	2		1
SG			2		1	5	2	1	1	12	28	3	7
TH					1	2	1	2		6	10	2	7
TW	2				1					3	14	1	6
WS						1				1	8	1	1
FJ								1		1	1	0	1
MN					1					1			
KR								1		1	1		1
NP						3				3	8	1	3
TOTAL	17	1	72	13	54	74	26	60	24	341	506	124	213

Membership – closure by year joined

Year Joined	Deregistered / Breach of Agreement	Duplicate membership	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Non Payment [Contactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
1998								1		1			1
1999						1				1	4		1
2000			1				1			2	5		4
2001					1				1	2		1	
2003						1				1			3
2004						1		1		2	16		2
2006	1		3	1				1		6	1	2	4
2007			1							1			1
2008						1	1			2	15	1	2
2009					5		1		1	7	1	1	3
2010			1		6	2				9	8	1	6
2011					1	2		3	1	7	13	4	3
2012			5		6	5	1	2	2	21	30	5	6
2013	1		4	1	6	4	2	4	1	23	49	11	20
2014	3		6		11	3	3	2	3	31	37	9	10
2015	1		14	1	5	9		1	8	39	50	23	21
2016	1		25	5	10	12	3	6	6	68	87	35	30
2017			7	1	3	4		9		24	21	7	13
2018				1		6	2	7		16	47	9	15
2019	6					7		5		18	42	5	21
2020	3			2		9	9	8		31	43	7	26
2021	1		4	1		7	3	8	1	25	36	3	19
2022	1		1					2		4	1	0	2
TOTAL	17	1	72	13	54	74	26	60	24	341	506	124	213

Investment revenue

Investment income summary:

- **Total investment revenue was below budget by 4.3% ($34.7K)**

- **Credit Suisse Investment:**
  - **$666,042 actual vs. $785,229 budget**
  - **Since inception the portfolio has returned 3.79% after fees against the benchmark (CPI +2.5%) of 4.8%**
  - **No additional portfolio injections in 2023 vs $4M in 2022**

- **Term deposits:**
  - **$105,505 actual vs. $21,000 budget**
  - **Positively impacted by interest rate rises (see next slide)**
  - **Current deposit yields: 3.84% - 4.24%**

Credit Suisse investment against benchmarks:

Market Value as at 31 December 2022

	Market Value
APNIC Portfolio	A$33,161,320

Performance as of 31 December 2022

APNIC Portfolio				
	Portfolio	Benchmark	Relative	CPI + 2.5%
Month	-1.79%	-2.13%	+0.34%	0.82%
3 Months	3.44%	3.27%	+0.17%	2.47%
Year To Date	-9.62%	-8.81%	-0.81%	8.64%
1 Year	-9.62%	-8.81%	-0.81%	8.64%
5 Years pa	2.51%	2.93%	-0.41%	5.09%
Since Inception pa	3.79%	4.15%	-0.36%	4.80%
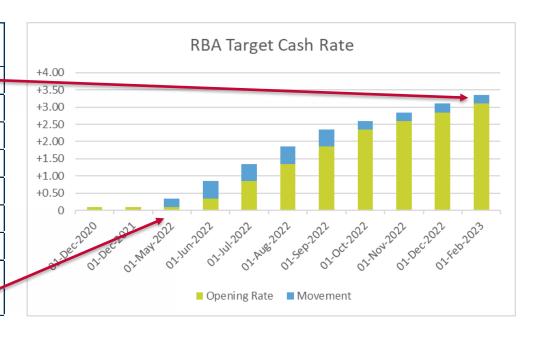
* Performance is after fees but before franking. Inception is September 2013.

Reserve Bank of Australia Target Cash Rate

Effective Date	Change % points	Cash rate target %
Feb-23	0.25	3.35
Dec-22	0.25	3.10
Nov-22	0.25	2.85
Oct-22	0.25	2.60
Sep-22	0.50	2.35
Aug-22	0.50	1.85
Jul-22	0.50	1.35
Jun-22	0.50	0.85
May-22	0.25	0.35

RBA Target Cash Rate

■ Opening Rate   ■ Movement

Financial Performance – Expenses

- **Salary & personnel expenses**
  - $16,887,009 actual vs $17,577,277 budget
  - Delays in recruitment due to tight labour market

- **Foundation expenses**
  - $3,702,680 actual vs. $6,362,600 budget
  - Refer to Foundation funded projects (next slide)

- **Professional fees**
  - $1,971,461 actual vs $1,824,480 budget
  - Higher consultancy and contractor costs
  - Recognition of HRIS implementation cost that budgeted as Capex

- **Computer expenses**
  - $1,883,390 actual vs $2,295,755 budget
  - Deferral of activities to 2023, capacity constraints and savings from change in project delivery approach
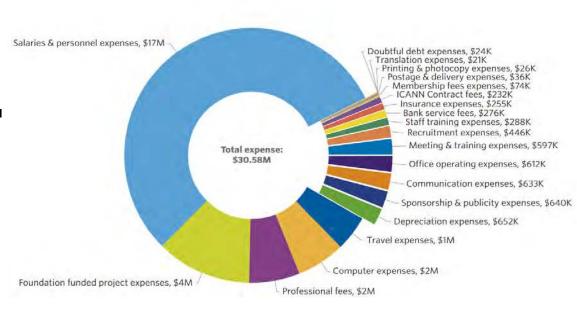
- **Travel expenses**
  - $1,370,504 actual vs $1,066,700 budget
  - Limited seat capacity, increasing demand and overall volatility of travel costs
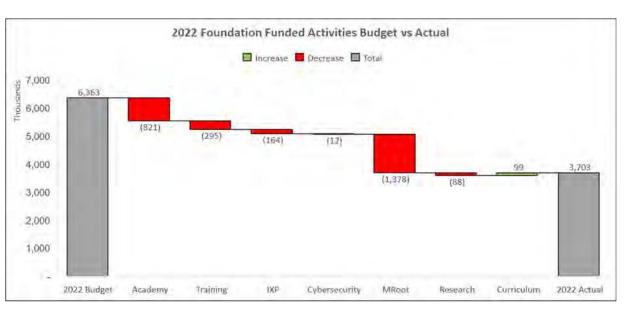
- **Total expenses**
  - $30,580,151 actual vs $33,764,411 budget

APNIC Expenses
by end of December 2022

Total expense: $30.58M

- Salaries & personnel expenses, $17M
- Doubtful debt expenses, $24K
- Translation expenses, $21K
- Printing & photocopy expenses, $26K
- Postage & delivery expenses, $36K
- Membership fees expenses, $74K
- ICANN Contract fees, $232K
- Insurance expenses, $255K
- Bank service fees, $276K
- Staff training expenses, $288K
- Recruitment expenses, $446K
- Meeting & training expenses, $597K
- Office operating expenses, $612K
- Communication expenses, $633K
- Sponsorship & publicity expenses, $640K
- Depreciation expenses, $652K
- Travel expenses, $1M
- Computer expenses, $2M
- Professional fees, $2M
- Foundation funded project expenses, $4M

Foundation funded projects
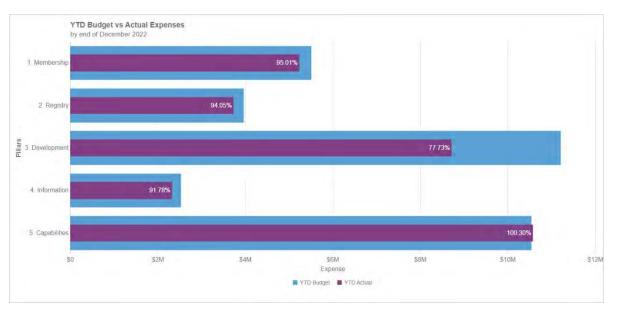

2022 Foundation Funded Activities Budget vs Actual

Total Project Spend: $3,702,680 actual vs $6,362,600 budget (41.8% below budget)

- **APNIC Academy & Curriculum Development: 780,253 Actual vs 1,601,369 Budget (51.3% below budget):**
  - Delay in recruitment due to skill shortage

- **Training Delivery & Community Trainers: $1,592,775 Actual vs $1,887,535 Budget (15.6% below budget):**
  - Delay in onboarding of trainer due to talent challenge

- **IXP: $0 Actual vs $164,383 Budget (100% below budget):**
  - Direct funding from Foundation and ISOC

- **M-Root Deployment: $492,926 Actual vs $1,871,231 Budget (73.7% below budget):**
  - Delay in equipment delivery due to global chip shortage.

- **Curriculum Development for non-technical audiences: $517,385 Actual vs $418,082 Budget (23.8% above budget):**
  - Additional budget approved for IPGO Project Manager

Expenses by Pillars

YTD Budget vs Actual Expenses
by end of December 2022

- **Total expenses (9.4%, $3.18M below budget)**

- **Membership (5.0%, 275K below budget):**
  - Salaries and personnel savings of $224K

- **Registry (6.0%, 236K below budget):**
  - Salaries and personnel savings $134K
  - Savings in Communication (network equipment support and transit, peering and virtual interconnection) $42K

- **Development (22.3%, 2.5M below budget):**
  - Foundation funded projects spending below budget per previous slide

- **Information (8.2%, 208K below budget):**
  - Lower spending in Foundation funded Research project $178K

- **Capability (0.3%, 32K above budget):**
  - Registry knowledge graph that Foundation funded through Research project resulted additional cost of $90K

Expenses by Workstreams

Expenses (AUD)	2022 Actual	2021 Actual	Year-on-Year Change (%)	Budget (YTD)	Actual vs Budget (%)
Member services	2,799,996	2,219,361	26%	2,989,124	-6%
Membership products	1,665,309	1,856,909	-10%	1,844,666	-10%
Membership reporting	768,843	619,054	24%	675,451	14%
Total - Membership	5,234,148	4,695,325	11%	5,509,241	-5%
Registration services	794,949	890,233	-11%	772,183	3%
Registry products	2,344,852	1,831,592	28%	2,612,611	-10%
Policy development	589,891	442,384	33%	580,881	2%
Total - Registry	3,729,692	3,164,209	18%	3,965,675	-6%
APNIC conferences	1,585,093	930,345	70%	1,288,628	23%
Foundation support	(0)	76,428	-100%	264,777	-100%
Community engagement	1,843,022	1,410,868	31%	1,692,291	9%
Community participation	410,275	244,552	68%	436,317	-6%
APNIC academy	4,009,932	1,886,157	113%	5,079,961	-21%
Internet infrastructure support	865,707	379,668	128%	2,448,842	-65%
Total - Development	8,714,029	4,928,017	77%	11,210,815	-22%
Information products	1,402,246	1,254,806	12%	1,459,082	-4%
Research and analysis	925,083	747,795	24%	1,076,598	-14%
Total - Information	2,327,329	2,002,601	16%	2,535,680	-8%
Internal technical infrastructure	3,356,536	2,472,811	36%	4,066,639	-17%
Finance and business services	3,585,463	2,353,479	52%	2,935,176	22%
Employee experience	2,677,504	2,137,539	25%	2,760,946	-3%
Governance	955,450	1,065,271	-10%	780,240	22%
Total - Capability	10,574,953	8,029,100	32%	10,543,000	0%
Total - Expenses	30,580,151	22,819,252	34%	33,764,411	-9%

APNIC

22

Capital Expenses by Pillars

Amount (AUD)	2022 Actual	2021 Actual	Year-on-Year Change (%)	2022 Budget	Actual vs Budget (%)
Member services	0	7,935	-100%	0	0%
Total - Membership	0	7,935	-100%	0	0%
Registry products	34,590	0	0%	230,000	-85%
Total - Registry	34,590	0	0%	230,000	-85%
APNIC conferences	51,197	4,296	1092%	43,000	19%
APNIC academy	3,217	16,351	-80%	25,000	-87%
Internet infrastructure support	0	1,231	-100%	60,000	-100%
Total - Development	54,413	21,878	149%	128,000	-57%
Research and analysis	93,812	62,532	50%	123,000	-24%
Total - Information	93,812	62,532	50%	123,000	-24%
Internal technical infrastructure	559,034	390,978	43%	560,800	-0%
Finance and business services	61,315	9,244	563%	40,000	53%
Employee experience	24,658	0	0%	387,500	-94%
Total - Capability	645,007	400,222	61%	988,300	-35%
Total - Capital Expenses	827,823	492,566	68%	1,469,300	-44%

Registry ($34,590 actual vs $230,000 budget YTD)

- **5 9s gap analysis result shown RPKI additional redundancy not required, $170K savings against budget.**

Development ($54,413 actual vs $128,000 budget YTD)

- **Savings of $60K for IXP and Root server development as direct funding from Foundation to ISOC**

Information ($93,812 actual vs $123,000 budget YTD)

- **Savings in Research lab server purchase**

Capabilities ($645,007 actual vs $988,300 budget YTD)

- **$100,000 Sage Implementation cost recognized as operational expense**
- **Phase one office remodelling work include meeting rooms configuration and hot desking system conversion. Expensed off some end-of-life furniture purchase and consulting fees, resulted $238,908 reduction.**

Statement of Financial Position

Amount (AUD)	As at Dec 2022	Year End Dec 2021	Change $	Change %
CURRENT ASSETS				
Cash/ Term Deposits	10,008,537	11,234,947	(1,226,410)	-11%
Receivables	2,020,438	1,166,701	853,737	73%
Others	1,257,264	977,210	280,054	29%
TOTAL CURRENT ASSETS	13,286,239	13,378,858	(92,619)	-1%
NON-CURRENT ASSETS				
Financial Assets	33,161,465	36,728,127	(3,566,662)	-10%
Property, Plant and Equipment	6,803,389	6,726,989	76,401	1%
Deferred Tax Assets	340,025	321,557	18,469	6%
TOTAL NON-CURRENT ASSETS	40,304,880	43,776,672	(3,471,792)	-8%
TOTAL ASSETS	53,591,119	57,155,530	(3,564,411)	-6%
CURRENT LIABILITIES				
Payables	1,780,433	1,535,635	244,798	16%
Current Provisions	3,086,849	2,700,030	386,819	14%
Unearned Revenue	12,379,552	12,243,099	136,453	1%
TOTAL CURRENT LIABILITIES	17,246,834	16,478,765	768,069	5%
NON-CURRENT LIABILITIES				
Non-Current Provisions	361,744	383,353	(21,609)	-6%
Deferred Tax Liabilities	397,240	1,447,853	(1,050,613)	-73%
TOTAL NON-CURRENT LIABILITIES	758,984	1,831,206	(1,072,222)	-59%
TOTAL LIABILITIES	18,005,817	18,309,971	(304,153)	-2%
NET ASSETS	35,585,302	38,845,560	(3,260,258)	-8%
EQUITY				
Share Capital	1	1	0	0%
Retained earnings	38,845,559	34,176,882	4,668,677	14%
Net (Deficit)/ Surplus	(3,260,258)	4,668,677	(7,928,935)	-170%
TOTAL EQUITY	35,585,302	38,845,560	(3,260,258)	-8%
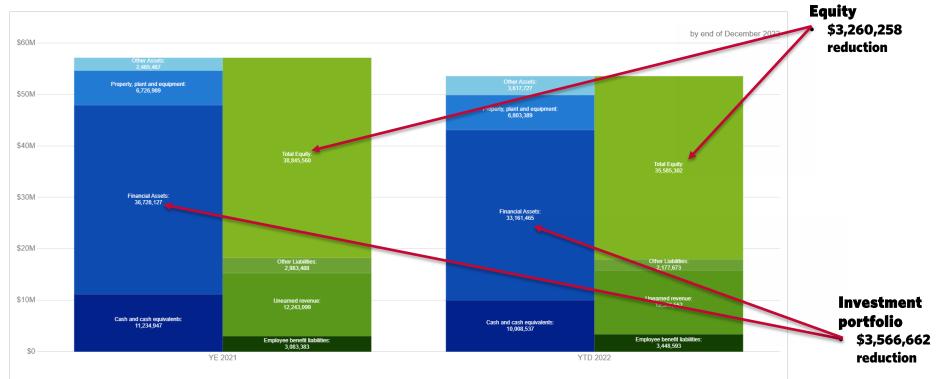
Investment portfolio
- **$4,028,706 fair value loss (revaluation) in income statement, less net earnings after fees = $3,566,662 reduction**
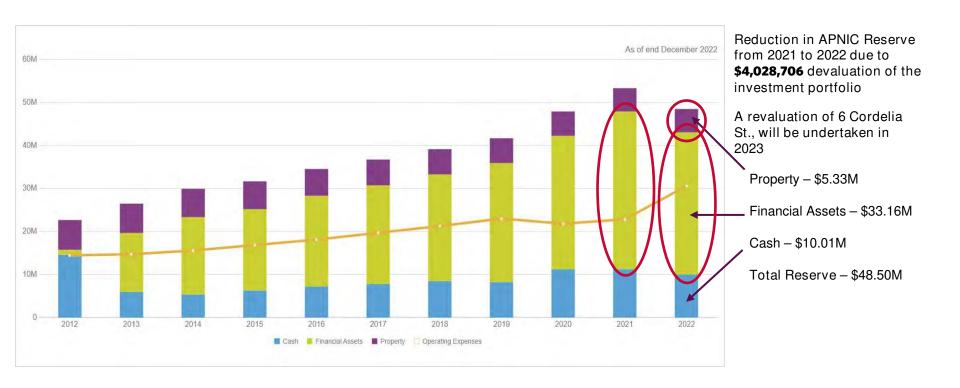
Equity
- **$300,634 operating deficit, less fair value loss on investment portfolio, plus $1,069,082 income tax benefit = $3,260,258 reduction**

Statement of Financial Position

Equity
- **$3,260,258 reduction**

Investment portfolio
- **$3,566,662 reduction**

by end of December 2022

	YE 2021	YTD 2022
Other Assets:	2,465,467	3,617,727
Property, plant and equipment:	6,726,989	6,803,389
Total Equity:	38,845,560	35,585,302
Financial Assets:	36,728,127	33,161,465
Other Liabilities:	2,983,488	2,177,673
Unearned revenue:	12,243,099	
Cash and cash equivalents:	11,234,947	10,008,537
Employee benefit liabilities:	3,083,383	3,448,593

APNIC's reserves

As of end December 2022

Reduction in APNIC Reserve from 2021 to 2022 due to **$4,028,706** devaluation of the investment portfolio

A revaluation of 6 Cordelia St., will be undertaken in 2023

Property – $5.33M

Financial Assets – $33.16M

Cash – $10.01M

Total Reserve – $48.50M

Cash   Financial Assets   Property   Operating Expenses

Financial Stability Measure

	Actual 2022	Actual 2021*	Actual 2020*	Actual 2019
Total Equity (AUD)	35,593,295	38,845,560	34,176,883	30,724,702
% Equity Covered By Cash/ Cash Equivalents	121%	123%	124%	117%
Monthly Operating Expenses (AUD)	2,239,789	2,125,305	2,024,419	1,914,554
Number of Months of expenses covered by Equity	15.89	18.28	16.88	16.05

- **2022 full year financial stability measure is 15.89 months**

- **The financial stability measure is impacted by a $3.26M reduction in equity from the decline in the investment portfolio value.**

- **During the 2022 budget presentation, APNIC projected a decline in the stability measure for the year due to the budget deficit.**

*The 2020 & 2021 financial stability measures are based on budgeted monthly operating expenses as this provides a more realistic expectation of coverage in a non-COVID operating environment.

Audit outcomes

- **Update as at 16 February:**
  - Fieldwork is substantially complete.
  - Ernst & Young anticipate issuing an unqualified audit opinion

- **Observations:**
  - No matters noted regarding areas of focus (revenue recognition, consolidation and investments).
  - No significant deficiencies noted in relation to internal controls.

- **Unadjusted audit differences:**
  - Long Service Leave $100,734:
    - Ernst & Young recommend APNIC refine long service leave calculation historic methodology.
    - APNIC will consider the recommendation in 2023.
  - Depreciation rates $182,871:
    - Ernst & Young recommend APNIC align accounting deprecation rates with the tax assets register as at 31 December 2022 based on the remaining asset useful life.
    - APNIC are reviewing Ernst & Young's calculations and findings

For EC consideration:

ACTION ITEMS

Credit Suisse Investment Portfolio

- ## Action item 2022-16:
  - Nathan Harvey to prepare a proposal for the EC to consider moving the funds to a balanced portfolio, extending SRI cover to indirect investments, and putting returns from the portfolio into a lower risk fund. The appropriate start date is to be determined as soon as is feasible, or it could be discussed at next EC meeting.

- ## Analysis completed for four portfolio scenarios:
  - Portfolio 1: Yield – Fully Environmental, Social, Governance (ESG) compliant portfolio
  - Portfolio 2: Balanced – Fully ESG compliant portfolio, with A$ 10 million held separately on term deposit
  - Portfolio 3: Balanced – Fully ESG compliant portfolio, with A$ 5 million held separately on term deposit
  - Portfolio 4: Balanced – Fully ESG compliant portfolio

Credit Suisse Investment Portfolio

Projections for Potential Portfolios for Comparison

Investment Profiles	Portfolio 1 Yield ESG	Portfolio 2 10m + Balanced ESG%	Portfolio 3 5m + Balanced ESG%	Portfolio 4 Balanced ESG
Liquidity	5.0%	32.9%	19.0%	5.0%
Bonds	62.0%	28.2%	34.1%	40.0%
Equities – Domestic	16.5%	19.4%	23.5%	27.5%
Equities – International	16.5%	19.4%	23.5%	27.5%
Alternates – Hedge Funds	0.0%	0.0%	0.0%	0.0%
Alternates – Real Estate	0.0%	0.0%	0.0%	0.0%
Alternates – Commodities	0.0%	0.0%	0.0%	0.0%
Private Equity	0.0%	0.0%	0.0%	0.0%
Historic Analysis				
Annualised Average Return	9.2%	8.3%	9.4%	9.9%
Annualised Average Return Last 5 Years	3.2%	3.4%	4.1%	4.6%
Annualised Average Return Last 10 Years	5.3%	5.2%	6.2%	7.0%
Annualised Average Return Last 20 Years	5.9%	5.3%	6.3%	6.8%
Worst 12 Month Return	–11.2%	–11.2%	–15.3%	–20.3%
Best 12 Month Return	31.7%	30.5%	34.6%	40.4%
Max Drawdown (%)	–12.7%	–14.5%	–19.1%	–24.6%
Portfolio Standard Deviation	5.6%	5.5%	6.6%	7.8%
Negative Annual Return is Incurred	1 in 10.0 years	1 in 8.9 years	1 in 8.1 years	1 in 6.8 years
Credit Suisse Research Projections				
Total Return	5.3%	5.1%	5.5%	6.0%
Income	3.9%	3.5%	3.6%	3.7%
Standard Deviation	5.0%	5.1%	6.1%	7.2%

Observations:
1. Portfolios 1 and 2 result in similar projected risk and return metrics over the next 5 years
2. Portfolios 3 and 4 result in a higher expected return than portfolio 1 and 2, but at a higher historical and forecast volatility (measured by standard deviation)
3. Portfolio 2 and 3 do not lead to better risk / return outcomes than Portfolio 1 or 4.
4. Portfolio 2 and 3 will reduce liquidity.
5. Portfolio 2 and 3 lead to increased administration of managing the portfolio and term deposits

Recommendations:
1. A broader fully ESG compliant portfolio screen should be implemented across the investment portfolio (as discussed during December EC)
2. APNIC should be fully invested in either the ESG compliant Yield or ESG compliant Balanced risk profiles, without funds being retained separately on A$ Term Deposit outside of the portfolio.
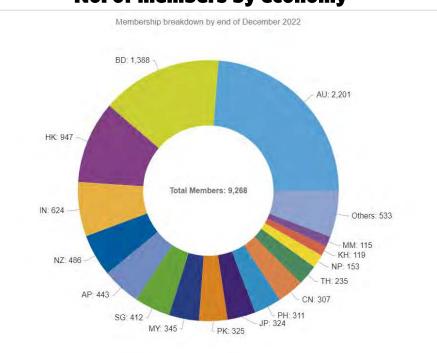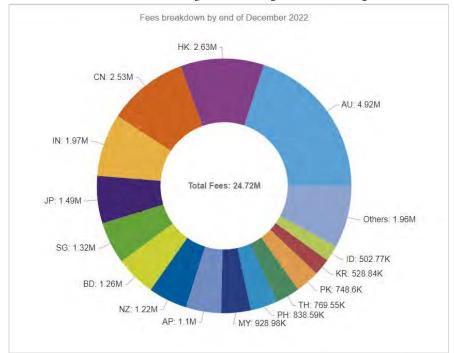
Membership income by economy

- **Action item 2022-17:**
  - The Secretariat to use a pie chart to show the Member income by economy (to contrast against Member numbers by economy chart.

No. of members by economy

Membership breakdown by end of December 2022

AU: 2,201
Others: 533
MM: 115
KH: 119
NP: 153
TH: 235
CN: 307
PH: 311
JP: 324
PK: 325
MY: 345
SG: 412
AP: 443
NZ: 486
IN: 624
HK: 947
BD: 1,388

Total Members: 9,268

Membership fees by economy

Fees breakdown by end of December 2022

HK: 2.63M
CN: 2.53M
IN: 1.97M
JP: 1.49M
SG: 1.32M
BD: 1.26M
NZ: 1.22M
AP: 1.1M
MY: 928.98K
PH: 838.59K
TH: 769.55K
PK: 748.6K
KR: 528.84K
ID: 502.77K
Others: 1.96M
AU: 4.92M

Total Fees: 24.72M

Financial Growth 2019 to 2022

- **Action item 2022-18:**
  - The Secretariat to compare the financial position against 2018-2019 to see whether the growth trend matches 2022 (excluding the anomalies of 2020-2021).

- **Operating Results (before tax and investments)**
  - 2019: +$291K   (inflation 1.8%)
  - 2020: +$3.2M   (inflation 0.9%, portfolio +4.46%)
  - 2021: +$3.6M   (inflation 3.5%, portfolio +5.23%)
  - 2022: **-$300K**   (inflation 7.8%, portfolio **-9.62%**)
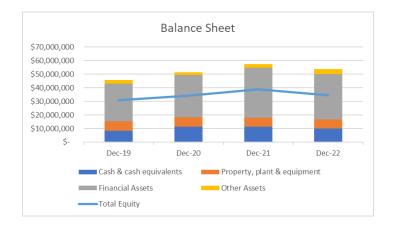
- **Overall Results**
  - 2020+2021: $8.1M surplus
    - $6M invested in portfolio
  - 2022: **$4.3M deficit** (after investment losses)

- **Net Assets (against reserve target)**
  - 2019 Net Assets = $30.7M (16.05 months)
  - 2020 Net Assets = $34.2M (16.88 months)
  - 2021 Net Assets = $38.8M (18.28 months)
  - 2022 Net Assets = $34.5M (**15.23 months**)

Balance Sheet

Financial Assets

Merchant Fees

- ## Action item 2022-21:
  - The Secretariat to table a proposal of on-charging merchant fees at the February EC meeting.

- ## Summary:
  - In 2022, APNIC absorbed AUD 256,795 (2021: AUD 244,005) of merchant fees on behalf of members
  - APNIC's average merchant fee is 2.82%. International remittances contribute to higher merchant rates
  - Top 10 merchant fee remitting economies, accounting for 80% of merchant fees: AU, CN, HK, IN, JP, BD, NZ, SG, PK and USA
  - Work is underway to replace APNIC's current payment platform, E-way, with Stripe.
  - Preliminary assessment of Stripe:
    - More payment forms – e.g. wallets
    - Better integration with Netsuite (backend efficiency)
    - Easier to implement payment by "instalment"

- ## Recommendation:
  - On-charging merchant fees is not recommended for the following reasons:
    - The cost of merchant fees is small, <1% of APNIC's total expenses
    - Work is underway to improve billing and payment platforms to improve efficiency and provide alternate payment methods
    - Long term fee reform discussions will be tabled at the May EC meeting (as requested in December 2022 EC)

2023 FINANCIAL PERFOMRNACE (TO JANUARY 2023)

2023 Financial Highlights

TOTAL REVENUE (2023 YTD)	OPERATING EXPENSE (2023 YTD)	OPERATING SURPLUS (2023 YTD)	TOTAL EQUITY (JAN 2023)
$2,421,253	$2,096,172	$325,081	$36,831,585
$2,611,630	$2,470,203	$141,428	$35,585,302
▼ -7.29%	▼ -15.14%	▲ 129.86%	▲ 3.5%

FINANCIAL PERFORMANCE

- ▶
- ▶ Membership revenue: YTD 4.5% behind budget.
- ▶ Total income excluding Foundation: YTD 1.1% behind budget.
- ▶ Total expenditure excluding Foundation: YTD 9.6% behind budget.
- ▶ Foundation projects: YTD 55.0% behind budget.
- Investment: Fair value gain of $921K YTD.

FINANCIAL POSITION

- ▶
- ▶ Cash and current assets of $13.0M is 1.8% down from LY.
- ▶ Financial investment of $34.2M is up 3.0% from LY.
- ▶ Total liabilities of $17.5M is 2.9% lower than LY.
- Financial stability of 18.8 months coverage is up from 15.9 months LY.

January 2023 Financial Performance

Expenses (AUD)	2023 YTD	2022 YTD	Year-on-Year Change(%)	Budget YTD	Actual vs Budget (%)
Total Revenue	2,421,253	2,328,598	4%	2,611,630	-7%
Total Expenses	2,096,172	1,662,696	26%	2,470,203	-15%
OPERATING (DEFICIT) / SURPLUS	325,081	665,902	-51%	141,428	130%
Revaluation of Financial Assets	921,203	(1,117,934)	182%	0	0%
(DEFICIT) / SURPLUS BEFORE TAX	1,246,284	(452,032)	376%	141,428	781%
Income Tax expense	0	0	0%	0	0%
NET (DEFICIT) / SURPLUS FOR THE YEAR	1,246,284	(452,032)	376%	141,428	781%

January 2023 Financial Stability Measure
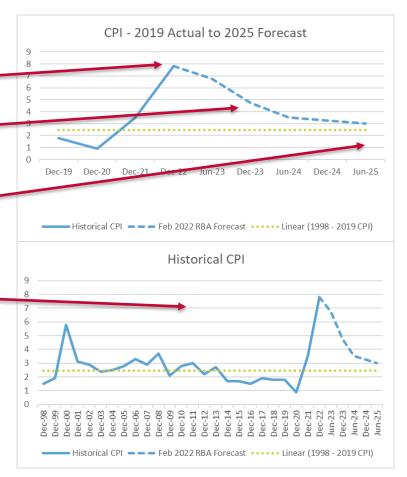
	YTD 2023	Budget 2023	Actual 2022	Actual 2021*	Actual 2020*	Actual 2019
Total Equity (AUD)	36,831,585	34,485,909	35,585,302	38,845,560	34,176,883	30,724,702
% Equity Covered By Cash/ Cash Equivalents	118%	125%	121%	123%	124%	117%
Monthly Operating Expenses (AUD)	1,960,554	2,449,179	2,239,789	2,125,305	2,024,419	1,914,554
Number of Months of expenses covered by Equity	18.79	14.08	15.89	18.28	16.88	16.05

*The 2020 & 2021 financial stability measures are based on budgeted monthly operating expenses as this provides a more realistic expectation of coverage in a non-COVID operating environment.

CPI Analysis

- **2022 Annual CPI of 7.8%**

- **2023 Forecast CPI of 4.75%**

- **CPI is expected to remain above the historic average until June 2025**

- **CPI at its highest level since APNIC Pty Ltd was established**

- **Impacts:**
  - **Wage inflation**
  - **Application costs**
  - **Supplier costs**

CPI - 2019 Actual to 2025 Forecast

Historical CPI

Legend: Historical CPI — Feb 2022 RBA Forecast ···· Linear (1998 - 2019 CPI)

APNIC Foundation Funding Summary

Project Name	2023 Budget Project Total	2023 Budget Overhead Total	2023 Budget Project+Overhead	2023 Budget (AUD)	APNIC Budget Papers	Variance
APNIC Academy Platform and Curriculum Development	1,021,545	153,232	1,174,777	1,480,500	1,480,500	-
Training delivery & Community Trainers	1,223,439	183,516	1,406,955	1,773,100	1,773,100	-
Curriculum Development for non-technical Audiences	55,214	8,282	63,497	80,021	80,021	-
Cybersecurity: Honeynet and threat sharing	53,130	7,970	61,100	77,000	77,000	-
M-Root Deployment	725,840	108,876	834,716	1,051,942	701,942	350,000
Research and Internet Measurement	200,000	30,000	230,000	289,855	289,855	-
ISIF Asia (incl. IPv6)	2,718,546	407,782	3,126,327			
Foundation Grants	303,107	45,466	348,573			
SWITCH!	1,385,946	207,892	1,593,837			
Mentoring Network – Afghanistan	185,572	27,836	213,408			
Trust Discretionary Fund	250,000	37,500	287,500			
AI3 & SOI Asia	2,846,896	427,034	3,273,930			
Project Total	10,969,234	1,645,385	12,614,620	4,752,418	4,402,418	350,000

- **APNIC Foundation Budget Summary:**
  - **$US 10.99M Project Budget**
  - **$US1.65M Overheads**
  - **$US 12.6M Project + Overhead Budget**

- **APNIC project funding:**
  - **$US 3.28M ($A4.75M) across 6 projects**
  - **30% of APNIC Foundation's total project budget**
  - **$AU 4.4M included in APNIC budget**
  - **$A350K (US$241.5K) direct funding on M-Root from Foundation to WIDE and JPRS which does not pass through APNIC**

QUESTIONS?

APNIC Pty Ltd
ABN 42 081 528 010
Special purpose financial report
for the year ended 31 December 2022

Contents

Director's report

Your director submits his report on APNIC Pty Ltd (the "Company") for the year ended 31 December 2022.

Director

The sole director of the Company in office during the financial year and until the date of this report is Mr Paul Byron Wilson. The director has been in office for this entire period.

Dividends

The Company does not pay or declare dividends due to its non-profit status as determined by its constituent documents.

Principal activity

The principal activity during the year of the Company was to act as a not-for-profit internet registry organisation for the Asia-Pacific region.

There was no significant change in the nature of the activity during the year.

Operating results for the year

The net loss after tax of the Company for year ended 31 December 2022 was $3,260,258 (2021: net profit after tax of $4,668,679). Included in the result is a $4,028,706 loss on financial assets held at fair value through profit or loss (2021: gain on financial assets of $1,061,285).

As the global community moved toward 'living with' the COVID-19 pandemic throughout 2022 and international borders re-opened, the Company was able to resume infrastructure development, conference, and training activities throughout the region. However, ongoing challenges including labor shortages, supply chain constraints, the high cost of travel and high inflation have impacted the Company's operating financial performance. A downturn in the global equities markets and corresponding fair value write down of the Company's managed investment funds has significantly impacted the Company's net financial performance.

Significant changes in the state of affairs

There were no significant changes in the state of affairs of the Company during the year.

Significant events after the reporting period

There were no significant events occurring after the reporting period which may affect either the Company's operations or results of those operations or the Company's state of affairs.

Likely developments and expected results

Likely developments in the operations of the Company and the expected results of those operations in future financial years have not been included in this report as the inclusion of such information is likely to result in unreasonable prejudice to the Company.

Environmental regulation and performance

The Company is not subject to any particular or significant environmental regulation under laws of the Commonwealth or of a State or Territory.

Share options

No option to acquire shares in the Company has been granted to any person. No shares have been issued during the financial year or since the end thereof by virtue of the exercise of any options. There are no unissued shares under option at the date of this report.

Director's report (continued)

Indemnification and insurance of director and officer

During the financial year, APNIC Pty Ltd paid a premium of $23,310 (2021: $23,106) to insure the director, officeholders (including executive council) and staff of the Company.

The liabilities insured are legal costs that may be incurred in defending civil or criminal proceedings that may be brought against the officers in their capacity as officers of entities in the Company, and any other payments arising from liabilities incurred by the officers in connection with such proceedings. This does not include such liabilities that arise from conduct involving a wilful breach of duty by the officers or the improper use by the officers of their position or of information to gain advantage for themselves or someone else or to cause detriment to the Company. It is not possible to apportion the premium between amounts relating to the insurance against legal costs and those relating to other liabilities.

Indemnification of auditors

To the extent permitted by law, the Company has agreed to indemnify its auditors, Ernst & Young (Australia), as part of the terms of its audit engagement agreement against claims by third parties arising from the audit (for an unspecified amount). No payment has been made to indemnify Ernst & Young (Australia) during or since the financial year.

Proceedings on behalf of the Company

No person has applied for leave of Court to bring proceedings on behalf of the Company or intervene in any proceedings to which the Company is a party for the purpose of taking responsibility on behalf of the Company for all or any part of those. The Company was not a party to any such proceedings during the year.
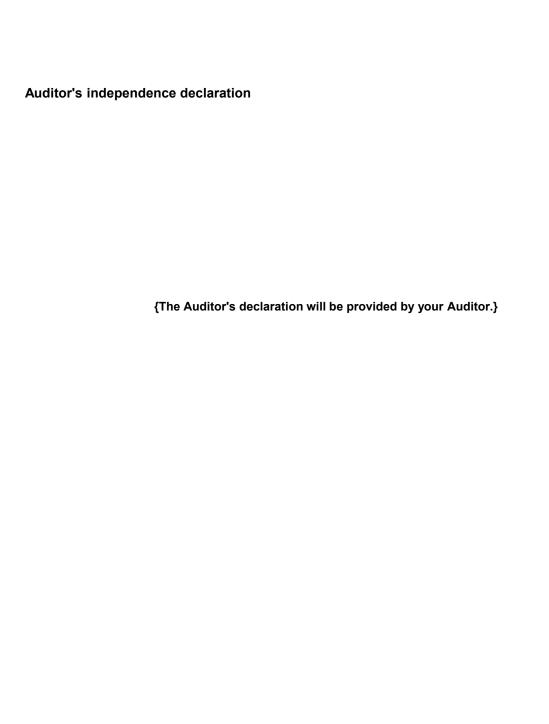
Auditor's independence declaration

The director has received a declaration from the auditor of APNIC Pty Ltd. This has been included on page 3.

Signed in accordance with a resolution of the director.

Paul Byron Wilson
Director
Brisbane
25 February 2023

Auditor's independence declaration

{The Auditor's declaration will be provided by your Auditor.}

Statement of profit or loss and other comprehensive income

For the year ended 31 December 2022

	Notes	2022 $	2021 $
Revenue from contracts with customers	3	25,432,372	25,079,028
Other income	4.1	4,740,644	1,304,779
Finance income	4.2	105,505	37,296
Communication and meeting expenses		(1,074,220)	(655,157)
Computer expenses		(1,883,390)	(1,514,824)
APNIC Foundation funded project expenses		(3,702,680)	-
Contributions to ICANN		(231,762)	(197,515)
Depreciation expense		(652,215)	(652,409)
Donations and sponsorships		(477,512)	(238,501)
Employee benefits expense		(17,174,941)	(15,857,644)
Insurance expenses		(255,322)	(224,060)
Professional fees		(1,971,460)	(2,212,253)
Travel expenses		(1,370,504)	(65,455)
Occupancy costs		(569,776)	(384,567)
Other expenses		(1,215,373)	(817,011)
(Loss)/profit before income tax and fair value gain on financial assets		**(300,634)**	**3,601,707**
(Loss)/gain on financial assets held at fair value through profit or loss		(4,028,706)	1,061,285
(Loss)/profit before income tax		**(4,329,340)**	**4,662,992**
Income tax expense		1,069,082	5,687
(Loss)/profit for the year		**(3,260,258)**	**4,668,679**
Other comprehensive income		-	-
Total comprehensive (loss)/income for the year		**(3,260,258)**	**4,668,679**

The above statement of profit or loss and other comprehensive income should be read in conjunction with the accompanying notes.

Statement of financial position

As at 31 December 2022

	Notes	2022 $	2021 $
Assets			
Current assets			
Cash and cash equivalents	5	7,302,763	7,065,707
Trade and other receivables	6	4,736,137	5,340,114
Prepayments		1,247,343	973,041
Total current assets		13,286,243	13,378,862
Non-current assets			
Financial assets	7	33,161,465	36,728,127
Property, plant and equipment	8	6,803,390	6,726,988
Total non-current assets		39,964,855	43,455,115
Total assets		**53,251,098**	**56,833,977**
Liabilities			
Current liabilities			
Trade and other payables	10	1,780,433	1,535,635
Employee benefit liabilities	11	3,086,849	2,700,030
Contract liabilities	12	12,379,552	12,243,100
Total current liabilities		17,246,834	16,478,765
Non-current liabilities			
Employee benefit liabilities	11	361,744	383,353
Net deferred tax liabilities	9	57,215	1,126,296
Total non-current liabilities		418,959	1,509,649
Total liabilities		**17,665,793**	**17,988,414**
Net assets		**35,585,305**	**38,845,563**
Equity			
Issued capital	13	1	1
Retained earnings		35,585,304	38,845,562
Total equity		**35,585,305**	**38,845,563**

The above statement of financial position should be read in conjunction with the accompanying notes.

Statement of changes in equity

For the year ended 31 December 2022

	Issued capital (Note 13)	Retained earnings	Total equity
	$	$	$
At 1 January 2022	**1**	**38,845,562**	**38,845,563**
Loss for the year	-	(3,260,258)	(3,260,258)
Other comprehensive income	-	-	-
Total comprehensive loss for the year	-	(3,260,258)	(3,260,258)
At 31 December 2022	**1**	**35,585,304**	**35,585,305**
At 1 January 2021	**1**	**34,176,883**	**34,176,884**
Profit for the year	-	4,668,679	4,668,679
Other comprehensive income	-	-	-
Total comprehensive income for the year	-	4,668,679	4,668,679
At 31 December 2021	**1**	**38,845,562**	**38,845,563**

The above statement of changes in equity should be read in conjunction with the accompanying notes.

Statement of cash flows

For the year ended 31 December 2022

	Notes	2022 $	2021 $
Operating activities			
Receipts from customers		30,277,150	25,549,754
Payments to suppliers and employees		(29,522,394)	(21,374,400)
Interest received		99,753	46,080
Net cash flows from operating activities	5.1	**854,509**	**4,221,434**
Investing activities			
Proceeds from sale of property, plant and equipment		6,372	8,264
Purchase of property, plant and equipment		(827,823)	(442,940)
Investment distribution income		666,042	828,161
Purchase of financial assets		(462,044)	(4,630,434)
Net cash flows used in investing activities		**(617,453)**	**(4,236,949)**
Financing activities			
Net cash flows from/(used in) financing activities		**-**	**-**
Net increase/(decrease) in cash and cash equivalents		237,056	(15,515)
Cash and cash equivalents at 1 January		7,065,707	7,081,222
Cash and cash equivalents at 31 December	5	**7,302,763**	**7,065,707**

The above statement of cash flows should be read in conjunction with the accompanying notes.

Notes to the financial statements

For the year ended 31 December 2022

1.   Corporate information

The financial statements of APNIC Pty Ltd (the "Company") for the year ended 31 December 2022 were authorised for issue in accordance with a resolution of the director on 25 February 2023.

APNIC Pty Ltd is a not-for-profit (NFP) company limited by shares, incorporated and domiciled in Australia.

The registered office and principal place of business of the Company is 6 Cordelia Street, South Brisbane, Queensland, 4101.

Further information on the nature of the operations and principal activity of the Company are described in the director's report.

2.   Significant accounting policies

2.1   Basis of preparation

These are special purpose financial statements that have been prepared at the request of the Executive Committee for the interest of the APNIC members and for the purpose of complying with the *Corporations Act 2001* requirements to prepare and distribute financial statements to the members and must not be used for any other purpose.

The financial statements have been prepared in accordance with *Corporations Act 2001* and with the recognition and measurement principles of all applicable Australian Accounting Standards and Interpretations issued by the Australian Accounting Standards Board. It contains the disclosures that are mandatory under the following Accounting Standards:

AASB 101: *Presentation of Financial statements*
AASB 107: *Cash Flow Statements*
AASB 108: *Accounting Policies, Changes in Accounting Estimates and Errors*
AASB 1054: *Australian Additional Disclosures*

Accounting Standard AASB 10 *Consolidated Financial Statements* has not been adopted in the preparation of these special purpose financial statements.

These financial statements have been prepared under the historical cost convention, except for financial assets and liabilities measured at fair value.

2.2   Changes in accounting policies, disclosure, standards and interpretations

New and amended standards and interpretations

The new and amended Australian Accounting Standards and Interpretations that apply for the first time in 2022 do not materially impact the financial statements of the Company.

Accounting Standards and Interpretations issued but not yet effective

Australian Accounting Standards and Interpretations have recently been issued or amended but are not yet effective and have not been adopted by the Company for the annual reporting year ended 31 December 2022. The Company intends to adopt the new or amended standards or interpretations, when they become effective.

AASB 1060 *- General Purpose Financial Statements - Simplified Disclosures for For-Profit and Not-for-Profit Tier 2 Entities*

Not-For-Profit entities will be required to follow the recognition and measurement requirement under Australian Accounting Standards, but may apply the simplified disclosure requirements in AASB 1060. AASB 1060 is the new simplified disclosures standard developed by the AASB based on IFRS for Small and Medium-sized Entities. The standard will be applicable when the AASB removes the ability for Not-For-Profit entities to prepare special purpose financial statements.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2. Significant accounting policies (continued)

2.3 Summary of significant accounting policies

a) Going concern

The financial statements have been prepared on a going concern basis, which assumes continuity of normal business activities and the realisation of assets and the settlements of liabilities in the ordinary course of business. The financial statements show the Company has negative working capital of $3,960,591 (2021: $3,099,903). Whilst the Company is in a negative working capital position, there are non-current financial assets of $33,161,465 which can be realised on a short-term basis should the Company require funds to meet their current obligations.

The cash flow forecast prepared for the assessment of going concern, factors in certain estimates and assumptions which would be impacted by developments related to COVID-19 and the impact on the performance of financial assets and customer demand. The financial forecasts in response to COVID-19 have been adjusted, to account for the current and possible future impacts to revenue, expenses and cash flows.

For the year ended 31 December 2022, there was a cash inflow from operating activities amounting to $854,509 (2021: $4,221,434). As at this date, the Company had cash and cash equivalents amounting to $7,302,763 (2021: $7,065,707) and total net assets of $35,585,305 (2021: $38,845,563). With the strong cash and financial position, the director believes it remains appropriate to prepare the financial statements on a going concern basis.

b) Current versus non-current classification

The Company presents assets and liabilities in the statement of financial position based on current/non-current classification. An asset is current when it is:

- Expected to be realised or intended to be sold or consumed in the normal operating cycle;

- Held primarily for the purpose of trading;

- Expected to be realised within twelve months after the reporting period, or

- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period.

All other assets are classified as non-current.

A liability is current when:

- It is expected to be settled in the normal operating cycle;

- It is held primarily for the purpose of trading;

- It is due to be settled within twelve months after the reporting period, or

- There is no unconditional right to defer the settlement of the liability for at least twelve months after the reporting period.

The Company classifies all other liabilities as non-current.

Deferred tax assets and deferred tax liabilities are classified as non-current assets and non-current liabilities respectively.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

c) Foreign currency translation

(i) Functional and presentation currency

Items included in the financial statements are measured using the currency of the primary economic environment in which the entity operates ('the functional currency'). The financial statements are presented in Australian dollars ($), which is the Company's functional and presentation currency.

(ii) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in profit or loss.

d) Cash and cash equivalents

Cash and cash equivalents in the statement of financial position comprise cash at banks and on hand.

For the purpose of the statement of cash flows, cash and cash equivalents consist of cash, as defined above.

e) Trade and other receivables

Trade receivables are amounts due from customers for services performed in the ordinary course of business. They are generally due for settlement between 30-60 days and therefore are all classified as current. Trade receivables are recognised initially at the amount of consideration that is unconditional unless they contain significant financing components, when they are recognised at fair value. The Company holds the trade receivables with the objective to collect the contractual cash flows and therefore measures them subsequently at amortised cost using the effective interest rate (EIR) method, less loss allowance.

Collectability of trade receivables is reviewed on an ongoing basis. Debts which are known to be uncollectible are written off by reducing the carrying amount directly. An allowance account (future expected credit losses) is used when there is objective evidence that the Company will not be able to collect all amounts due according to the original terms of the receivables. Significant financial difficulties of the debtor, probability that the debtor will enter bankruptcy or financial reorganisation, and default or delinquency in payments are considered indicators that the trade receivable is impaired. The amount of the impairment allowance is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the original EIR. Cash flows relating to short-term receivables are not discounted if the effect of discounting is immaterial.

The amount of the impairment loss is recognised in profit or loss within other expenses. When a trade receivable for which an impairment allowance had been recognised becomes uncollectible in a subsequent period, it is written off against the allowance account. Subsequent recoveries of amounts previously written off are credited against other expenses in profit or loss.

f) Investments and other financial assets

(i) Classification

The Company classifies its financial assets in the following measurement categories:

- those to be measured subsequently at fair value (either through other comprehensive income (OCI) or through profit or loss), and

- those to be measured at amortised cost.

The classification depends on the entity's business model for managing the financial assets and the contractual terms of the cash flows. For assets measured at fair value, gains and losses will either be recorded in profit or loss or OCI. It has been elected that changes in fair value be designated through profit and loss.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

f)   Investments and other financial assets (continued)

(ii) Recognition and derecognition

Regular way purchases and sales of financial assets are recognised on trade-date, the date on which the Company commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and the Company has transferred substantially all the risks and rewards of ownership.

(iii) Measurement

Debt instruments

Subsequent measurement of debt instruments depends on the Company's business model for managing the asset and the cash flow characteristics of the asset. There are three measurement categories into which the Company classifies its debt instruments:

- Amortised cost: Assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. Interest income from these financial assets is included in finance income using the EIR method. Any gain or loss arising on derecognition is recognised directly in profit or loss and presented in other gains/(losses) together with foreign exchange gains and losses. Impairment losses are presented as separate line item in the statement of profit or loss and other comprehensive income.

- Fair value through other comprehensive income (FVOCI): Assets that are held for collection of contractual cash flows and for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at FVOCI. Movements in the carrying amount are taken through OCI, except for the recognition of impairment gains or losses, interest income and foreign exchange gains and losses which are recognised in profit or loss. When the financial asset is derecognised, the cumulative gain or loss previously recognised in OCI is reclassified from equity to profit or loss and recognised in other gains/(losses). Interest income from these financial assets is included in finance income using the EIR method. Foreign exchange gains and losses are presented in other gains/(losses) and impairment expenses are presented as separate line item in the statement of profit or loss and other comprehensive income.

- Fair value through profit or loss (FVPL): Assets that do not meet the criteria for amortised cost or FVOCI are measured at FVPL. A gain or loss on a debt investment that is subsequently measured at FVPL is recognised in profit or loss and presented net within other gains/(losses) in the period in which it arises.

Equity instruments

The Company subsequently measures all equity investments at fair value. Where the Company's management has elected to present fair value gains and losses on equity investments in OCI, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment.

Dividends from such investments continue to be recognised in profit or loss as other income when the Company's right to receive payments is established.

Changes in the fair value of financial assets at FVPL are recognised in other gains/(losses) in the statement of profit or loss and other comprehensive income as applicable. Impairment losses (and reversal of impairment losses) on equity investments measured at FVOCI are not reported separately from other changes in fair value.

(iv) Impairment

The Company assesses on a forward-looking basis, the expected credit losses associated with its debt instruments carried at amortised cost and FVOCI. The impairment methodology applied depends on whether there has been a significant increase in credit risk.

For trade receivables, the Company applies the simplified approach permitted by AASB 9 *Financial Instruments*, which requires expected lifetime losses to be recognised from initial recognition of the receivables.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

f)   Investments and other financial assets (continued)

Impairment losses on equity instruments that were recognised in profit or loss were not reversed through profit or loss in a subsequent year.

Subsequent measurement

The fair values of quoted investments are based on current bid prices. If the market for a financial asset is not active (and for unlisted securities), the Company establishes fair value by obtaining independent valuation statements or by using valuation techniques. These include the use of recent arm's length transactions, reference to other instruments that are substantially the same, discounted cash flow analysis, and option pricing models making maximum use of market inputs and relying as little as possible on entity specific inputs.

g)   Contract liabilities

A contract liability is recognised if a payment is received or a payment is due (whichever is earlier) from a customer before the Company transfers the related goods or services. Contract liabilities are recognised as revenue when the Company performs under the contract (i.e., transfers control of the related goods or services to the customer).

h)   Property, plant and equipment

Property, plant and equipment is stated at historical cost less depreciation. Historical cost includes expenditure that is directly attributable to the acquisition of the items.

Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of any component accounted for as a separate asset is derecognised when replaced. All other repairs and maintenance are charged to profit or loss during the reporting year in which they are incurred.

Depreciation on assets acquired are calculated using the straight-line method to allocate their cost or revalued amounts, net of their residual values, over their estimated useful lives as follows:

Property related assets   2.5%-50%
Computer equipment   5%-50%

The assets' residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting year. Gains and losses on disposals are determined by comparing proceeds with carrying amount. These are included in profit or loss.

i)   Impairment of non-financial assets

The Company assesses, at each reporting date, whether there is an indication that an asset may be impaired. If any indication exists, or when annual impairment testing for an asset is required, the Company estimates the asset's recoverable amount. An asset's recoverable amount is the higher of an asset's or cash-generating unit's (CGU)'s fair value less costs of disposal and its value in use. The recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. In determining fair value less costs of disposal, recent market transactions are taken into account. If no such transactions can be identified, an appropriate valuation model is used. These calculations are corroborated by valuation multiples, quoted share prices for publicly traded companies or other available fair value indicators.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

i)   Impairment of non-financial assets (continued)

The Company bases its impairment calculation on most recent budgets and forecast calculations, which are prepared separately for each of the Company's CGUs to which the individual assets are allocated. These budgets and forecast calculations generally cover a period of five years. A long-term growth rate is calculated and applied to project future cash flows after the fifth year.

Impairment losses are recognised in the statement of profit or loss and other comprehensive income as an expense.

An assessment is made at each reporting date to determine whether there is an indication that previously recognised impairment losses no longer exist or have decreased. If such indication exists, the Company estimates the asset's or CGU's recoverable amount. A previously recognised impairment loss is reversed only if there has been a change in the assumptions used to determine the asset's recoverable amount since the last impairment loss was recognised. The reversal is limited so that the carrying amount of the asset does not exceed its recoverable amount, nor exceed the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognised for the asset in prior years. Such reversal is recognised in the statement of profit or loss and other comprehensive income.

j)   Employee benefit liabilities

Short-term obligations

Liabilities for wages and salaries, including non-monetary benefits, bonus, time-in-lieu and annual leave expected to be settled within 12 months after the end of the period in which the employees render the related service are recognised in respect of employee's services up to the end of the reporting period and are measured at the amounts expected to be paid when the liabilities are settled. The liability for annual leave is recognised in the provision for employee benefits. All other short-term employee benefit obligations are presented as payables.

Other long-term employee benefit obligations

The Company also has liabilities for long service leave and annual leave that are not expected to be settled wholly within 12 months after the end of the year in which the employees render the related service. These obligations are therefore measured as the present value of expected future payments to be made in respect of services provided by employees up to the end of the reporting year using the projected unit credit method.

Consideration is given to expected future wage and salary levels, experience of employee departures and years of service.

Expected future payments are discounted using market yields at the end of the reporting year of high-quality corporate bonds with terms and currencies that match, as closely as possible, the estimated future cash outflows. Remeasurements as a result of experience adjustments and changes in actuarial assumptions are recognised in profit or loss.

The obligations are presented as current liabilities in the statement of financial position if the entity does not have an unconditional right to defer settlement for at least twelve months after the reporting date, regardless of when the actual settlement is expected to occur.

k) Issued capital

Ordinary shares are classified as equity.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

l)   Revenue from contracts with customers

The Company has applied revenue recognition methodologies provided both under AASB 1058 *Income of not-for-profit entities* as well as AASB 15 for the purpose of recognising revenue.

Revenue recognition under AASB 15

Under AASB 15, the Company recognises revenue when the control of the goods or services are transferred to the customer at an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods or services. The Company has generally concluded that it is the principal in its revenue arrangements because it typically controls the goods or services before transferring them to the customer.

Revenue recognition and application of AASB 1058

AASB 1058 provides that an entity receiving certain 'volunteer services' or entering to 'certain transactions' and where the consideration to acquire an asset is significantly less than the fair value of the asset. In the latter case, the entity will recognise and measure the asset at fair value in accordance with the applicable Australian Accounting Standard (e.g. AASB 116 *Property, Plant and Equipment*).

AASB 1058 does not apply when a transaction completely falls under the scope of AASB 15 as a contract with a customer. This is when the transaction has the all the following characteristics:

- The transaction is enforceable and has sufficiently specific obligations;

- The goods or services are not retained by the entity for its own use; and

- The transaction is neither a donation transaction nor a volunteer service.

Accordingly, AASB 1058 applies to entity's transactions that are not ordinarily contracts at fair value with customers. The timing of income recognition depends on whether such a transaction gives rise to a liability or other performance obligation (a promise to transfer a good or service), or a contribution by owners, related to an asset (such as cash or another asset) received by an entity.

The Company has confirmed that there are no transactions significantly below the fair value, therefore AASB 1058 has no application on the entity, and therefore revenue is recognised for the major business activities using the methods outlined under AASB 15 as provided below:

(i) Member fees

Member fees are recognised over time where the performance obligation is satisfied over the period of membership. Member fees received in advance of the service being provided are classified as unearned income. Transfer fees, reactivation fees and application fees are recognised at a point in time where the performance obligation is satisfied when the service is performed.

Under AASB 1058, if the above fees include a donation element, the same is treated as 'donation' transactions and the value of the same is required to be recognised in the financial statements. A donation component, and thereby a donation transaction, exists if:

- The consideration to acquire an asset is significantly less than its fair value; and

- The intent is to primarily to enable the NFP entity to further its objectives

At present, there are no significant 'donation' components included within member fees. Therefore, there are no donation transactions to be recognised in the financial statements.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

l)   Revenue from contracts with customers (continued)

(ii) Volunteer services

Volunteer services received by the Company are recognised by principles enunciated under AASB 1058 to ascertain donation element contained in them and recognise the equivalent fair market value in the books of accounts.

Under AASB 1058 a NFP entity may, as an accounting policy choice to recognise volunteer services, or a class of volunteer services, if the fair value of those services can be measured reliably, whether the services would have been purchased if they had not been donated. The value of such volunteer services shall be measured at fair value. On the initial recognition of volunteer services as an asset or an expense, an entity shall recognise any related amounts as well. The entity shall recognise the excess of the fair value of the volunteer services over the recognised related amounts as income immediately in profit or loss account.

The Company has represented to us that it cannot reliably measure the value of volunteer services received by it given the nature of its business, sparsity of volunteering received apart from inability to obtain comparative market estimates. Therefore, the Company has not recognised the value of volunteering services in its financial statements in accordance with the exemption provided by the AASB 1058.

Under AASB 1058, if the volunteer services include a donation element, the same is treated as 'donation' transactions and the value of the same is required to be recognised in the financial statements. A donation component, and thereby a donation transaction, exists if:

•   The consideration to acquire an asset is significantly less than its fair value; and

•   The intent is to primarily to enable the NFP entity to further its objectives

At present, there are no significant 'donation' components included in the volunteer services. Therefore, there are no donation transactions to be recognised in the financial statements.

(iii) Grants

Grants relating to costs are deferred and recognised in profit or loss over the period necessary to match them with the costs that they are intended to compensate.

Grants are recognised at their fair value where there is a reasonable assurance that the grant will be received and the Company will comply with all attached conditions.

(iv) Dividends

Dividends received from investments in equity instruments are recognised in profit or loss, as other income, when the Company's right to receive payment is established.

m) Taxes

The income tax expense or revenue for the period is the tax payable on the current period's taxable income based on the applicable income tax rate adjusted by changes in deferred tax assets and liabilities attributable to temporary differences and to unused tax losses.

The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the end of the reporting period in the country where the Company operates and generates taxable income.

Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

Notes to the financial statements (continued)

For the year ended 31 December 2022

2.   Significant accounting policies (continued)

2.3   Summary of significant accounting policies (continued)

m) Taxes (continued)

Deferred income tax is provided in full, using the liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the financial statements. Deferred income tax is also not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects either accounting nor taxable profit or loss.

Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the end of the reporting period and are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled. Deferred tax assets are recognised only if it is probable that future taxable amounts will be available to utilise those temporary differences and losses.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis, or to realise the asset and settle the liability simultaneously.

The Company has self-assessed that the "principle of mutuality" applies to its affairs and has calculated its income tax using this principle for the year ended 31 December 2022.

n) Goods and services tax (GST)

Revenues, expenses and assets are recognised net of the amount of associated GST, unless the GST incurred is not recoverable from the taxation authority. In this case it is recognised as part of the cost of acquisition of the asset or as part of the expense.

Receivables and payables are stated inclusive of the amount of GST receivable or payable. The net amount of GST recoverable from, or payable to, the taxation authority is included with other receivables or payables in the statement of financial position.

Cash flows are presented on a gross basis. The GST components of cash flows arising from investing or financing activities which are recoverable from, or payable to the taxation authority, are presented as operating cash flows.

o) Significant accounting judgements, estimates and assumptions

The director evaluates estimates and judgements incorporated into the financial report based on historical knowledge and best available current information. Estimates assume a reasonable expectation of future events and are based on current trends and economic data, obtained both externally and within the Company.

There were no critical accounting judgements, estimates or assumptions exercised by management.

Notes to the financial statements (continued)

For the year ended 31 December 2022

3. Revenue from contracts with customers

3.1 Disaggregated revenue information

Set out below is the disaggregation of the Company's revenue from contracts with customers:

	2022	2021
	$	$
Type of service		
Membership fees	24,717,563	24,252,513
Non-membership fees	259,616	257,209
Sign-up fees	258,750	302,750
Transfer fees	177,643	244,156
Member reactivation fees	14,000	20,000
Non-member reactivation fees	4,800	2,400
Total revenue from contracts with customers	**25,432,372**	**25,079,028**
Timing of revenue recognition		
Services transferred over time	24,977,179	24,509,722
Services transferred at a point in time	455,193	569,306
Total revenue from contracts with customers	**25,432,372**	**25,079,028**

4. Other income

4.1 Other income

	2022	2021
	$	$
Investment distribution income	666,042	828,161
Sundry income	300,097	444,338
Foundation receipts*	3,762,837	-
Net foreign exchange gain	11,668	32,280
	4,740,644	**1,304,779**

* As at 31 December 2021, income and expenses for APNIC Foundation funded projects were presented on a net basis.

4.2 Finance income

	2022	2021
	$	$
Interest income	**105,505**	**37,296**

Notes to the financial statements (continued)

For the year ended 31 December 2022

5. Cash and cash equivalents

	2022	2021
	$	$
Petty cash	400	400
Cash at bank	7,302,363	7,065,307
	7,302,763	**7,065,707**

5.1 Cash flow reconciliation

	2022	2021
	$	$
Cash flow reconciliation		
Reconciliation of net (loss)/profit after tax to net cash flows from operations:		
(Loss)/profit for the year	(3,260,258)	4,668,679
Adjustments for:		
Depreciation expense	652,215	652,409
Investment distribution income	(666,042)	(828,161)
Loss on disposal of property, plant and equipment	92,835	3,973
Loss/(gain) on financial assets held at fair value through profit or loss through profit or loss	4,028,706	(1,061,285)
Expected credit (recovery)/losses	(23,995)	13,413
Net foreign exchange gain	(11,668)	(32,280)
Changes in assets and liabilities:		
Decrease in trade and other receivables	639,640	35,172
Increase in prepayments	(274,302)	(192,387)
Decrease in net deferred tax liabilities	(1,069,081)	(5,688)
Increase in trade and other payables	244,797	166,622
Increase in employee benefit liabilities	365,210	443,243
Increase in contract liabilities	136,452	357,724
Net cash flows from operating activities	**854,509**	**4,221,434**

6. Trade and other receivables

	2022	2021
	$	$
Trade receivables	1,614,025	1,137,005
Allowance for expected credit losses	(56,767)	(80,762)
	1,557,258	1,056,243
Interest receivable	9,922	4,170
Short term deposits	2,650,000	4,150,000
Other receivables	518,957	129,701
	4,736,137	**5,340,114**

Notes to the financial statements (continued)

For the year ended 31 December 2022

7. Financial assets

	2022 $	2021 $
Non current		
Units in managed investment funds – at fair value	33,161,465	36,728,127

8. Property, plant and equipment

	2022 $	2021 $
Plant and equipment		
At cost	7,470,265	7,470,264
Accumulated depreciation	(2,137,486)	(2,012,821)
Net carrying amount	**5,332,779**	**5,457,443**
Furniture and fittings		
At cost	489,236	595,396
Accumulated depreciation	(216,699)	(293,471)
Net carrying amount	**272,537**	**301,925**
Computer equipment		
At cost	4,114,243	3,686,572
Accumulated depreciation	(2,916,169)	(2,718,952)
Net carrying amount	**1,198,074**	**967,620**
Leasehold improvements		
At cost	-	115,000
Accumulated depreciation	-	(115,000)
Net carrying amount	**-**	**-**
Total property, plant and equipment		
At cost	12,073,744	11,867,232
Accumulated depreciation	(5,270,354)	(5,140,244)
Net carrying amount	**6,803,390**	**6,726,988**

Notes to the financial statements (continued)

For the year ended 31 December 2022

9. Net deferred tax liabilities

	2022	2021
	$	$
Total deferred tax assets	340,025	321,557
Total deferred tax liabilities	(397,240)	(1,447,853)
Net deferred tax liabilities	**(57,215)**	**(1,126,296)**

10. Trade and other payables

	2022	2021
	$	$
Current		
Trade payables	673,151	462,788
Accrued expenses	1,019,165	1,018,949
GST payable	88,117	53,898
	1,780,433	**1,535,635**

11. Employee benefit liabilities

	2022	2021
	$	$
Current		
Annual leave	1,533,134	1,391,128
Long service leave	1,500,877	1,281,180
Time in lieu leave	52,838	27,722
	3,086,849	**2,700,030**
Non current		
Long service leave	**361,744**	**383,353**

12. Contract liabilities

	2022	2021
	$	$
Current		
Unearned member and non-member fees	12,319,879	12,193,930
Unearned sponsorship income	10,000	2,750
Unearned research service income	49,673	46,420
	12,379,552	**12,243,100**

13. Issued capital

	2022	2021
	$	$
1 fully paid ordinary share (2021: 1)	**1**	**1**

Notes to the financial statements (continued)

For the year ended 31 December 2022

13. Issued capital (continued)

Ordinary shares entitle the holder to participate in dividends and the proceeds on winding up of the Company in proportion to the number of and amounts paid on the shares held.

On a show of hands every holder of ordinary shares present at a meeting in person or by proxy, is entitled to one vote, and upon a poll each share is entitled to one vote.

Ordinary shares have no par value and the Company does not have a limited amount of authorised capital.

There were no movements in issued capital during the year (2021: none).

During the reporting period the Executive Counsel (EC) resolved, subject to a new company being incorporated for the purpose of acting as Trustee of the sole share in APNIC Pty Ltd (Corporate Trustee), that it agrees to the change of the Trustee of the sole share in APNIC Pty Ltd from Paul Byron Wilson to the Corporate Trustee.

14. Commitments and contingencies

Commitments

The Company had no capital commitments at 31 December 2022 (2021: $nil).

Contingencies

The Company had no contingent assets or contingent liabilities at 31 December 2022 (2021: $nil).

15. Auditor's remuneration

The auditor of APNIC Pty Ltd is Ernst & Young (Australia).

	2022	2021
	$	$
Amounts received or due and receivable by Ernst & Young (Australia) for:		
An audit or review of the financial report of the entity	42,200	37,000
Other services	5,500	5,000
	47,700	42,000

16. Events after the reporting period

There were no significant events occurring after the reporting period which may affect either the Company's operations or results of those operations or the Company's state of affairs.

Director's declaration

In accordance with a resolution of the director of APNIC Pty Ltd, I state that:

In the opinion of the director:

(a) the Company is not a reporting entity as defined in the Australian Accounting Standards;

(b) the financial statements and notes of the Company are in accordance with the *Corporations Act 2001,* including:

    (i) giving a true and fair view of the the Company's financial position as at 31 December 2022 and its performance for the year ended on that date; and

    (ii) complying with Australian Accounting Standards to the extent described in Note 2.1 to the financial statements and complying with the *Corporations Regulations 2001*;

(c) there are reasonable grounds to believe that the Company will be able to pay its debts as and when they become due and payable.

Paul Byron Wilson
Director
Brisbane
25 February 2023

Independent auditor's report

{The Auditor's report will be provided by your Auditor.}

Annual Financial Report

(in AUD)

2022

APNIC

Table of Contents

1   Executive Summary

For the year ended December 2022, APNIC's year-to-date operating deficit was $300,634. APNIC holds net assets of $34,516,220 which was a 11% decrease compared to 2021.

Figure 1 below shows the key drivers of the variance between 2022 budget and full year financial performance.
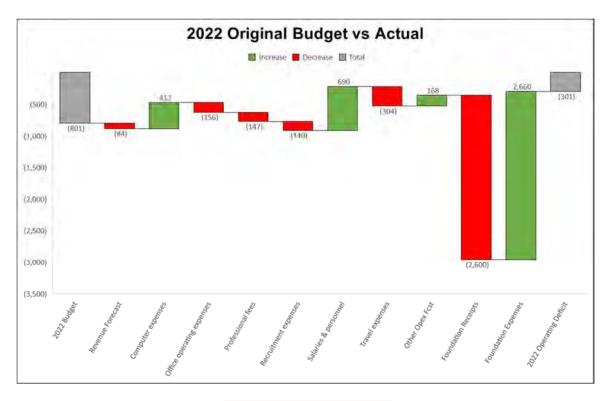
Figure 1: Original Budget vs Actual

2   Statement of Financial Position

The Statement of Financial Position compares APNIC's assets, liabilities and equity at the end of December 2022 against the 2021 year end balances.

Amount (AUD)	Year End Dec 2022	Year End Dec 2021	Change $	Change %
CURRENT ASSETS				
Cash/ Term Deposits	10,008,537	11,234,947	(1,226,410)	-10.92%
Receivables	2,020,438	1,166,701	853,737	73.18%
Others	1,257,264	977,210	280,054	28.66%
TOTAL CURRENT ASSETS	**13,286,239**	**13,378,858**	**(92,619)**	**-0.69%**
NON-CURRENT ASSETS				
Financial Assets	33,161,465	36,728,127	(3,566,662)	-9.71%
Property, Plant and Equipment	6,803,389	6,726,989	76,401	1.14%
Deferred Tax Assets	340,025	321,557	18,469	5.74%
TOTAL NON-CURRENT ASSETS	**40,304,880**	**43,776,672**	**(3,471,792)**	**-7.93%**
TOTAL ASSETS	**53,591,119**	**57,155,530**	**(3,564,411)**	**-6.24%**
CURRENT LIABILITIES				
Payables	1,780,433	1,535,635	244,798	15.94%
Current Provisions	3,086,849	2,700,030	386,819	14.33%
Unearned Revenue	12,379,552	12,243,099	136,453	1.11%
TOTAL CURRENT LIABILITIES	**17,246,834**	**16,478,765**	**768,069**	**4.66%**
NON-CURRENT LIABILITIES				
Non-Current Provisions	361,744	383,353	(21,609)	-5.64%
Deferred Tax Liabilities	397,240	1,447,853	(1,050,613)	-72.56%
TOTAL NON-CURRENT LIABILITIES	**758,984**	**1,831,206**	**(1,072,222)**	**-58.55%**
TOTAL LIABILITIES	**18,005,817**	**18,309,971**	**(304,153)**	**-1.66%**
NET ASSETS	**35,585,302**	**38,845,560**	**(3,260,258)**	**-8.39%**
EQUITY				
Share Capital	1	1	0	0.00%
Retained earnings	38,845,559	34,176,882	4,668,677	13.66%
Net (Deficit)/ Surplus	(3,260,258)	4,668,677	(7,928,935)	-169.83%
TOTAL EQUITY	**35,585,302**	**38,845,560**	**(3,260,258)**	**-8.39%**

Table 1. Statement of Financial Position

The Statement of Financial Position (Table 1)

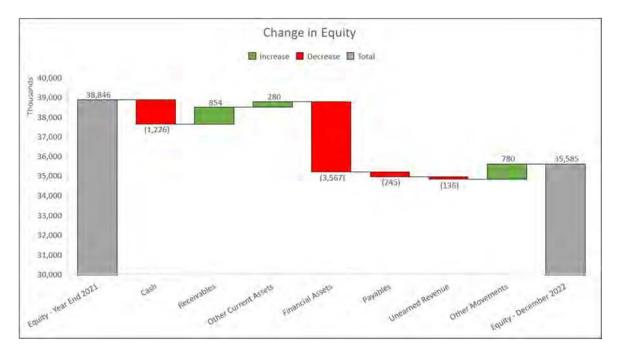Equity has decreased by 8% or $3,260,258 since December 2021. Key drivers are shown in Figure 2 below:

Figure 2. Changes in Equity – Year End 2021 to December 2022

3   Statement of Income

The Statement of Income compares APNIC's full year 2022 revenue and expenditure against budget and 2021 result.

Amount (AUD)	2022 Actual	2021 Actual	Year-on-Year Change(%)	2022 Budget	Actual vs Budget (%)
Membership fees	24,717,563	24,252,513	2%	24,799,617	0%
Non-Member fees	259,616	257,209	1%	263,209	-1%
Reactivation fees	18,800	22,400	-16%	22,644	-17%
Sign-Up fees	258,750	302,750	-15%	315,985	-18%
Transfer fees	177,643	244,156	-27%	220,431	-19%
Sundry income	312,760	22,516	1289%	172,200	82%
Foundation receipts	3,762,837	453,956	729%	6,362,600	-41%
Operating Revenue	**29,507,969**	**25,555,500**	**15%**	**32,156,686**	**-8%**
Investment income	771,547	865,457	-11%	806,229	-4%
TOTAL REVENUE	**30,279,516**	**26,420,957**	**15%**	**32,962,915**	**-8%**
Bank service fees	275,982	259,116	7%	261,000	6%
Communication expenses	633,469	634,015	0%	688,600	-8%
Computer expenses	1,883,390	1,514,823	24%	2,295,755	-18%
Foundation funded project expenses	3,702,680	0	0%	6,362,600	-42%
Depreciation expenses	652,215	652,408	0%	839,869	-22%
Doubtful debt expenses	(23,995)	13,413	-279%	20,000	-220%
ICANN contract fees	231,762	197,515	17%	225,600	3%
Insurance expenses	255,322	224,060	14%	231,600	10%
Meeting & training expenses	597,066	88,785	572%	553,500	8%
Membership fees expenses	74,398	62,720	19%	81,010	-8%
Office operating expenses	611,541	367,000	67%	455,640	34%
Postage & delivery expenses	36,236	11,674	210%	48,000	-25%
Printing & photocopy expenses	26,078	22,109	18%	29,000	-10%
Professional fees	1,971,461	2,212,254	-11%	1,824,480	8%
Recruitment expenses	445,725	297,997	50%	306,000	46%
Salaries & personnel expenses	16,887,009	15,707,940	8%	17,577,277	-4%
Sponsorship & publicity expenses	639,979	315,397	103%	553,780	16%
Staff training expenses	287,933	149,705	92%	314,000	-8%
Translation expenses	21,395	22,867	-6%	30,000	-29%
Travel expenses	1,370,504	65,455	1994%	1,066,700	28%
TOTAL EXPENSES	**30,580,151**	**22,819,252**	**34%**	**33,764,411**	**-9%**
OPERATING (DEFICIT) / SURPLUS	**(300,634)**	**3,601,705**	**-108%**	**(801,496)**	**62%**
Revaluation of Financial Assets	(4,028,706)	1,061,285	-480%	0	0%
(DEFICIT) / SURPLUS BEFORE TAX	**(4,329,340)**	**4,662,990**	**-193%**	**(801,496)**	**-440%**
Income Tax expense	(1,069,082)	(5,687)	18699%	0	0%
NET (DEFICIT) / SURPLUS FOR THE YEAR	**(3,260,258)**	**4,668,677**	**-170%**	**(801,496)**	**-307%**

Table 2. Statement of Income

The Statement of Income (Table 2)

At the end of 2022, APNIC has delivered an operating deficit of $300,634 and a net deficit after fair value loss on financial assets of $4,329,340. The full year operating deficit was $500,862 below the original budget operating deficit of $801,496.

Revenue: Revenue (excluding Foundation projects) was $83,635 below budget at the end of 2022.

- **Membership revenue:** Membership Revenue for the year was $189,514 below budget. Membership fees was below full year budget by $82,054. Sign-up fees and Transfer fees were below budget by $57,235 and $42,788 respectively. Further details are provided in Section 7 – Membership.

- **Foundation receipts and expenses:** Both full year Foundation project receipts and expenses were $2,659,920 below budget. Non-project related receipts of $60,157 gave rise to slightly higher forecast receipts than corresponding expenses. Further details are provided in Section 8 – Foundation Funded Activities.

- **Investment Income:** Interest and portfolio investment income for the year was $34,682 below budget. Further details are contained in the Credit Suisse investment report and commentary that accompany this financial report.

- **Sundry Income:** Sundry income was $140,560 above budget due to increased conference sponsorship income.

Expenses: Operating expenses (excluding Foundation projects) for the year was $524,340 below budget at the end of 2022. Major variances to budget include:

- **Salary & personnel expenses:** Salary and personnel full year expenses was $690,268 below budget due to recruitment challenges experienced throughout 2022 which delayed the start dates of various new positions from the budgeted workforce plan, and replacement roles.

- **Computer expenses:** Computer expenses for the year was $412,365 lower than budget due to the deferral of activities to 2023, capacity constraints and savings from change in project delivery approach.

- **Office operating expenses:** The full year expenses exceeded budget by $155,901 due to the replacement of end-of-life furniture as part of the workspace remodeling project ($89,799) and a year-end review of the fixed assets to remove items with a purchase value below $1,000 in accordance with the updated fixed assets policy adopted in 2022 ($79,968).

- **Professional fees**: The full year expenses exceeded budget by $146,981 due to higher than budgeted consultancy and contractor costs, and recognition of HRIS implementation costs that were budgeted as capital expenditure.

- **Recruitment expenses**: The full year expenses exceeded budget by $139,725 due to unbudgeted overseas relocation costs for 3 staff members.

- **Travel expenses**: The full year expenses exceeded budget by $303,804 due to limited seat capacity, increasing demand and overall volatility of travel costs.

- **Fair Value Loss on Financial Assets:** Year-to-date fair value of the investment portfolio has reduced by $4,028,706.

- Since inception in September 2013, the portfolio has returned 3.79% (after fees but before franking) against the benchmark (CPI + 2.5%) of 4.80%. The Credit Suisse investment report

and commentary that accompany this financial report provide detailed analysis of the portfolio's performance over time.

- APNIC does not budget for investment valuation changes due to market volatility. Therefore, the decline in market value of the portfolio has impacted the actual net deficit vs. original budget.

4   Capital Expenditure

The table below provides overview of current capital expenditure as of December 2022.

Amount (AUD)	2022 Actual	2021 Actual	Year-on-Year Change (%)	2022 Budget	Actual vs Budget (%)
Equipment & Software	741,850	483,322	53%	1,141,800	-35%
Office Furniture & Fittings	85,973	9,244	**830%**	327,500	-74%
Total - Capital Expenditure	**827,823**	**492,566**	68%	**1,469,300**	-44%

Table 3. Capital Expenditure

Capital Expenditure (Table 3)

- Full year spending includes cyclical renewal of laptops, routers and servers, server purchase for lab research, and phase one office remodelling work.

- The latest International Financial Reporting Standards has directed that HRIS implementation costs are to be recognised as an operating expense instead of capital expenditure. The impact is a $100,000 reduction in equipment and software additions.

- Based on the 5 9s gap analysis result, the investment in RPKI HSM additional redundancy was not required which resulted in savings of $170,000 in equipment and software additions.

- Phase one office remodelling work include configuring more meeting rooms and converting the office to a hot desking system. Expenses for replacement of some end-of-life furniture purchase and consulting fees have been expensed in the year. The impact is a $238,908 reduction in office furniture & fittings additions.

5 Activity Summary

5.1 Expenses

Expenses (AUD)	2022 Actual	2021 Actual	Year-on-Year Change (%)	2022 Budget	Actual vs Budget (%)
Member services	2,799,996	2,219,361	26%	2,989,124	-6%
Membership products	1,665,309	1,856,909	-10%	1,844,666	-10%
Membership reporting	768,843	619,054	24%	675,451	14%
Total - Membership	**5,234,148**	**4,695,325**	**11%**	**5,509,241**	**-5%**
Registration services	794,949	890,233	-11%	772,183	3%
Registry products	2,344,852	1,831,592	28%	2,612,611	-10%
Policy development	589,891	442,384	33%	580,881	2%
Total - Registry	**3,729,692**	**3,164,209**	**18%**	**3,965,675**	**-6%**
APNIC conferences	1,585,093	930,345	70%	1,288,628	23%
Foundation support	(0)	76,428	-100%	264,777	-100%
Community engagement	1,843,022	1,410,868	31%	1,692,291	9%
Community participation	410,275	244,552	68%	436,317	-6%
APNIC academy	4,009,932	1,886,157	113%	5,079,961	-21%
Internet infrastructure support	865,707	379,668	128%	2,448,842	-65%
Total - Development	**8,714,029**	**4,928,017**	**77%**	**11,210,815**	**-22%**
Information products	1,402,246	1,254,806	12%	1,459,082	-4%
Research and analysis	925,083	747,795	24%	1,076,598	-14%
Total - Information	**2,327,329**	**2,002,601**	**16%**	**2,535,680**	**-8%**
Internal technical infrastructure	3,356,536	2,472,811	36%	4,066,639	-17%
Finance and business services	3,585,463	2,353,479	52%	2,935,176	22%
Employee experience	2,677,504	2,137,539	25%	2,760,946	-3%
Governance	955,450	1,065,271	-10%	780,240	22%
Total - Capability	**10,574,953**	**8,029,100**	**32%**	**10,543,000**	**0%**
Total - Expenses	**30,580,151**	**22,819,252**	**34%**	**33,764,411**	**-9%**

Table 4. Expenses by Pillars and Workstreams

Activity Summary (Table 4)

This summary includes expenses grouped into pillars and workstreams as outlined in the 2022 Activity Plan.

- The Development Pillar full year expenses are $2,496,786 below budget. Major variances include:

  - delays in recruiting and onboarding trainers, retained community trainers and other project funded roles associated with project delivery.

  - reduction in project funding for IXP development due to the project expenses being directly funded by the APNIC Foundation and ISOC.

  - reduction in project funding for M-Root deployment manpower cost due to direct funding from the APNIC Foundation. Local hosts absorption of data center operational cost, hardware purchase and software development savings due to capacity limitation resulted in reduction in spending of M-Root project.

  - delays in M-Root equipment delivery due to global chip shortage resulted in deferral of equipment spending.

Operating Budget Utilisation by Pillars is shown below in Figure 3. Percentage is comparing year-to-date actual on full year budget expenditure.

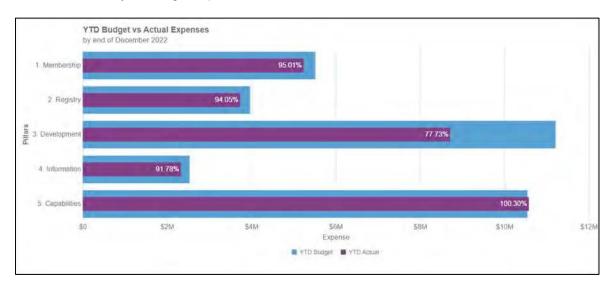**Figure 3. Operating Budget Utilisation by Pillars**

5.2   Capital Expenditure

Amount (AUD)	2022 Actual	2021 Actual	Year-on-Year Change (%)	2022 Budget	Actual vs Budget (%)
Member services	0	7,935	-100%	0	0%
Total - Membership	**0**	**7,935**	**-100%**	**0**	**0%**
Registry products	34,590	0	0%	230,000	-85%
Total - Registry	**34,590**	**0**	**0%**	**230,000**	**-85%**
APNIC conferences	51,197	4,296	1092%	43,000	19%
APNIC academy	3,217	16,351	-80%	25,000	-87%
Internet infrastructure support	0	1,231	-100%	60,000	-100%
Total - Development	**54,413**	**21,878**	**149%**	**128,000**	**-57%**
Research and analysis	93,812	62,532	50%	123,000	-24%
Total - Information	**93,812**	**62,532**	**50%**	**123,000**	**-24%**
Internal technical infrastructure	559,034	390,978	43%	560,800	-0%
Finance and business services	61,315	9,244	563%	40,000	53%
Employee experience	24,658	0	0%	387,500	-94%
Total - Capability	**645,007**	**400,222**	**61%**	**988,300**	**-35%**
Total - Capital Expenses	**827,823**	**492,566**	**68%**	**1,469,300**	**-44%**

Table 5. Capital Expenditure by Pillars and Workstreams

Capital Expenditure (Table 5)

Only those workstreams with actual or budget spend are shown. Workstreams not shown currently have zero budget or actual spend for the year.

Capital Budget Utilisation by Pillars is shown below in Figure 4. Percentage is comparing year-to-date actual on full year budget expenditure.

Figure 4. Capital Budget Utilisation by Pillars

6 APNIC Reserve

6.1 Cash Flow Statement
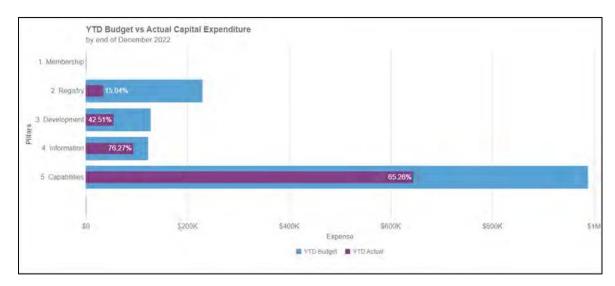
This report shows the cash flow status as at the end of December 2022.

Amount (AUD)	2022 Actual
Operating Activities	
YTD Net Deficit	**(3,260,258)**
Receivables	(477,018)
Other Current Asset	(675,241)
Payables	15,893
Withholding Tax Payable	34,219
Other Current Liabilities	(332,656)
Total Adjustments to Deficit	**(1,434,804)**
Total Operating Activities	**(4,695,062)**
Investing Activities	
Financial Assets	3,566,662
Property, Plant and Equipment	(76,401)
Total Investing Activities	**3,490,261**
Financing Activities	
Long Term Liabilities	(21,609)
Equity	0
Total Financing Activities	**(21,609)**
Net Change in Cash for the Year	**(1,226,410)**
Cash at Beginning of the Year	**11,234,947**
Cash at End of the Year	**10,008,537**

Table 6. Cash Flow Statement

Cashflow Statement (Table 6)

- $477,018 increase in receivables due to Foundation project recharges.

- $675,241 increase in other current assets due to increase in prepayments, NRO and foundation receivables.

- $332,656 decrease in other current liabilities due to reduction in provision for deferred tax liability.

- $3,566,662 decrease in financial assets due to the decline in value of investment portfolio.

6.2 Capital Reserve

As of end December 2022

Figure 5. APNIC Reserves

Capital Reserve (Figure 5)

The Reserve is diversified between cash reserves, investment portfolio, and APNIC property (i.e. APNIC Office). At the end of December, APNIC maintained $10,008,537 in cash reserves, $33,161,465 has been invested in the investment portfolio and $5,332,779 invested in APNIC Property.

Figure 5 above tracks the value and the allocation of these assets over time against the operating expenses for each year for comparison. The decline in the reserve between December 2021 and December 2022 was mainly due to the decline in value of the investment portfolio.

6.3 APNIC's Equity and Reserves

By comparing total equity (including retained earnings and unrealised gains / losses on the investment portfolio), and monthly operating expenses, excluding APNIC Foundation project expenses for 2022, the number of month's coverage of operational expenses is set out below:

	Actual 2022	Actual 2021*	Actual 2020*	Actual 2019
Total Equity (AUD)	35,593,295	38,845,560	34,176,883	30,724,702
% Equity Covered By Cash/ Cash Equivalents	121%	123%	124%	117%
Monthly Operating Expenses (AUD)	2,239,789	2,125,305	2,024,419	1,914,554
Number of Months of expenses covered by Equity	**15.89**	**18.28**	**16.88**	**16.05**

Table 7. Equity and Reserves

* Calculation is based on the average monthly operating expenses of the approved budget, excluding Foundation project expenses, as it better reflects the APNIC operating cost base in a COVID-free course of business.

7 Membership

7.1 Membership Summary

Member Count	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Extra Large	20	21	22	22	23	24	24	26	26	27
Very Large	43	40	44	43	41	44	46	48	49	49
Large	147	142	137	138	138	143	143	143	151	158
Medium	392	402	431	449	473	483	493	521	548	571
Small	1,198	1,388	2,165	2,643	2,971	3,376	3,601	3,685	3,733	3,767
Very Small	1,294	1,701	2,336	2,590	2,769	2,967	3,334	3,778	4,126	4,388
Associate	957	924	133	109	132	125	135	140	135	308
Total	**4,051**	**4,618**	**5,268**	**5,994**	**6,547**	**7,162**	**7,776**	**8,341**	**8,768**	**9,268**
New & Reactivation Adjust	813	805	968	1,048	849	825	838	833	770	841
Close	-296	-238	-318	-322	-296	-210	-224	-268	-343	-341
Net Growth	**517**	**567**	**650**	**726**	**553**	**615**	**614**	**565**	**427**	**500**
Average Monthly Gain	**43**	**47**	**54**	**61**	**46**	**51**	**51**	**47**	**36**	**42**
Growth %	14.63%	14.00%	14.08%	13.78%	9.23%	9.39%	8.57%	7.27%	5.12%	5.70%

Table 8. Net Membership Growth YTD

Membership Summary (Table 8)

Year-to-date net membership growth (new & re-activated members less closures) is 5.70% for 2022 vs 5.12% in 2021.

7.2 Membership by Category

Membership	Total Dec-21	YTD New Dec-22	Reactivation / Adjustment	YTD Closed Dec-22	YTD Size Change Dec-22	Total Dec-22	% Total
Extra Large	**26**	0	0	0	1	**27**	0%
Very Large	**49**	1	0	0	(1)	**49**	1%
Large	**151**	2	0	0	5	**158**	2%
Medium	**548**	4	(1)	(5)	25	**571**	6%
Small	**3,733**	163	1	(159)	29	**3,767**	41%
Very Small	**4,126**	482	7	(139)	(88)	**4,388**	47%
Associate	**135**	172	10	(38)	29	**308**	3%
TOTAL	**8,768**	**824**	**17**	**(341)**	**0**	**9,268**	**100%**

Table 9. Membership by Category

Membership by category (Table 9)

There were 115 new and reactivated members and 25 account closures in December 2022. Overall net membership growth for the month was 90 members. Year-to-date, there have been:

- 824 new members vs. 804 budgeted new members
- 341 closures vs. 312 budgeted account closures

As at the end of December 2022, APNIC had a total of 9,268 members serving 53 economies.

7.3   Membership by Economy

Figure 6. Membership by Economy

7.4   Membership Growth

Figure 7. Monthly Membership Movement

Figure 8. Total Membership by tier

7.5   Year-to-Date Membership Movement by Economy
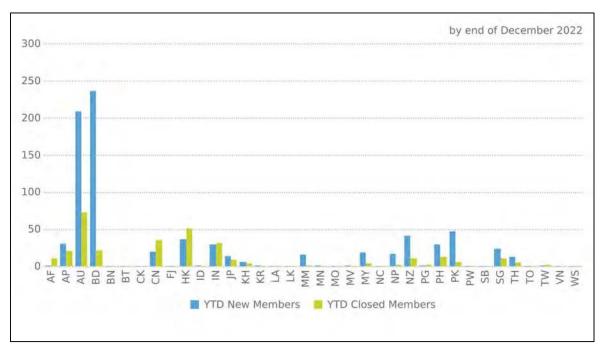

by end of December 2022

Figure 9. Membership Movement by Economy

Membership movement by economy (Figure 9)
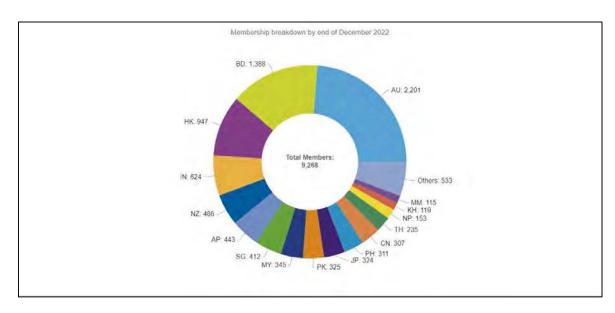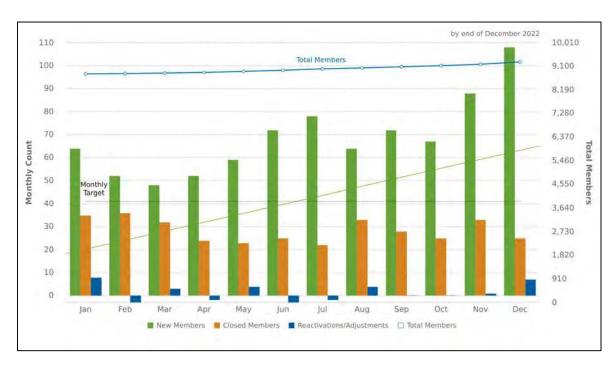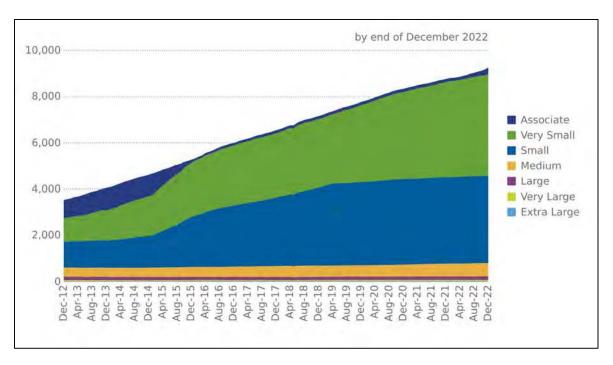
Figure 9 shows new and closed membership movement by economy as at end of December.

- Top new member economies are Bangladesh, Australia and Pakistan.
- Top closed member economies are Australia, Hong Kong and China.
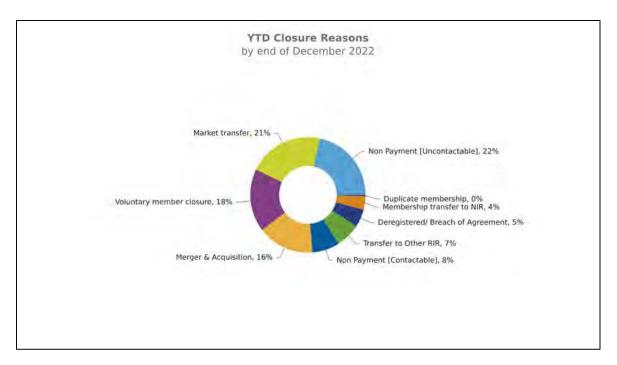
7.6   Membership Closures Analysis

Figure 10. Closure Analysis

Closure Analysis (Figure 10)

Figure 10 provides an analysis of Membership account closures as at the end of December. 51.3% of the closures relate to accounts closed due to the failure to establish contact, the business is no longer operating, or breach of agreement, where resource holdings are returned to APNIC.

7.7 Membership Closures by Year Joined

Year Joined	Deregistered/ Breach of Agreement	Duplicate membership	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Non Payment [Contactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
1998								1		1			1
1999						1				1	4		1
2000			1				1			2	5		4
2001					1				1	2		1	
2003						1				1			3
2004						1		1		2	16		2
2006		1	3	1				1		6	1	2	4
2007			1							1			1
2008						1	1			2	15	1	2
2009					5		1		1	7	1	1	3
2010			1		6	2				9	8	1	6
2011					1	2		3	1	7	13	4	3
2012			5		6	5	1	2	2	21	30	5	6
2013	1		4	1	6	4	2	4	1	23	49	11	20
2014	3		6		11	3	3	2	3	31	37	9	10
2015	1		14	1	5	9		1	8	39	50	23	21
2016	1		25	5	10	12	3	6	6	68	87	35	30
2017			7	1	3	4		9		24	21	7	13
2018				1		6	2	7		16	47	9	15
2019	6					7		5		18	42	5	21
2020	3			2		9	9	8		31	43	7	26
2021	1		4	1		7	3	8	1	25	36	3	19
2022	1		1					2		4	1	0	2
TOTAL	17	1	72	13	54	74	26	60	24	341	506	124	213

Table 10. Membership Closures by Year Joined

Membership Closures by Year Joined (Table 10)

Table 10 shows membership closures by year joined as at end of December.

7.8 Membership Closures by Economy

Economy	Deregistered/ Breach of Agreement	Duplicate membership	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Non Payment [Contactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
AF						6	2	4		**12**	51	1	12
AP	1		2		2	5	2	3	7	**22**	11	14	17
AU		1	13		24	7	6	18	5	**74**	52	17	34
BD	1		12		1	3	1	3	2	**23**	10	11	22
CN	2		11		3	9	3	4	4	**36**	89	22	16
HK	11		19		4	9	1	6	2	**52**	116	27	36
ID				1						**1**			1
IN			4	11	5	4	5	1	2	**32**	17	9	11
JP					4	4		2		**10**	18	0	1
KH			2			1		2		**5**	8	3	6
LA						1				**1**	4		1
LK								1		**1**	2	0	1
MM						2				**2**	9	1	2
MY			1		1	2		1		**5**	2	1	3
NZ			3		3	1		5		**12**	12	4	5
PG					2			1		**3**	2		2
PH			1	1	1	6	1	3	1	**14**	17	2	11
PK			2			3	1	1		**7**	14	4	5
PW							1			**1**	2		1
SG			2		1	5	2	1	1	**12**	28	3	7
TH					1	2	1	2		**6**	10	2	7
TW	2				1					**3**	14	1	6
WS						1				**1**	8	1	1
FJ								1		**1**	1	0	1
MN					1					**1**			
KR								1		**1**	1		1
NP						3				**3**	8	1	3
TOTAL	17	1	72	13	54	74	26	60	24	341	506	124	213

Table 11. Membership Closures by Economy

Membership Closures by Economy (Table 11)

Table 11 shows membership closures by economy as at end of December.

8   APNIC Foundation Funded Activities

8.1   Foundation Summary

For greater transparency, APNIC reports Foundation receipts and Foundation expenses separately as 'Foundation receipts' (revenue) and 'Foundation funded project expenses' (expenses) in the Statement of Income. Previous accounting treatment was to offset the Foundation receipts and expenses within the Income Statement.

Major variances in Foundation receipts and expenses include:

- Delays in the recruitment and onboarding of trainers, retained community trainers and other project funded roles due to skill shortage will reduce the full year salary and wage expenses associated with project delivery.

- Reduction in APNIC project funding for IXP development due to the project expenses being directly funded by the APNIC Foundation and ISOC.

- Reduction in APNIC project funding for M-Root deployment manpower cost with direct funding from the APNIC Foundation. Local hosts absorption of data center operational cost, hardware purchase and software development savings due to capacity limitation resulted in reduction in spending of M-Root project.

- Delays in M-Root equipment delivery due to global chip shortage resulted in deferral of equipment spending.

Figure 11. Foundation Funded Activities Budget vs Actual
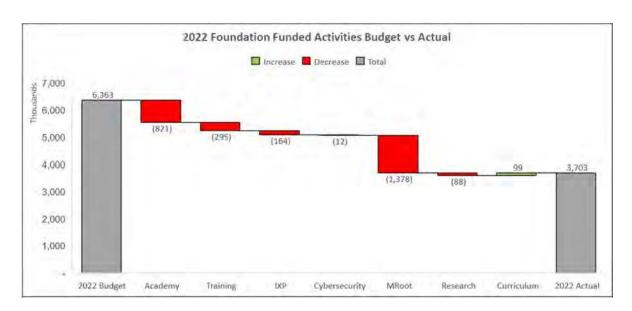
Monthly Financial Report

(in AUD)

January 2023

APNIC

Table of Contents

1   Executive Summary

APNIC's operating surplus for the period of January 2023 was $325,081. APNIC holds net assets of $36,831,585 which was a 4% increase year-to-date.

Figure 1 below shows the key drivers of the variance between 2023 year-to-date budget and actual financial performance.
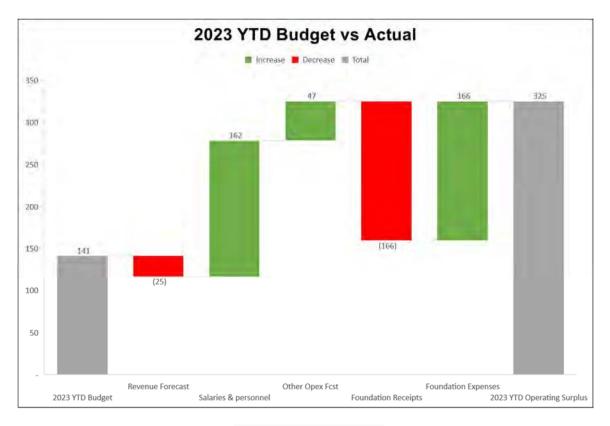
Figure 1: YTD Budget vs Actual

2   Statement of Financial Position

The Statement of Financial Position compares APNIC's assets, liabilities and equity at the end of January 2023 against the 2022 year end balances.

Amount (AUD)	As at Jan 2023	Year End Dec 2022	Change $	Change %
CURRENT ASSETS				
Cash/ Term Deposits	9,135,115	10,008,537	(873,422)	-9%
Receivables	2,613,931	2,020,438	593,493	29%
Others	1,295,807	1,257,264	38,543	3%
TOTAL CURRENT ASSETS	**13,044,854**	**13,286,239**	**(241,385)**	**-2%**
NON-CURRENT ASSETS				
Financial Assets	34,170,665	33,161,465	1,009,200	3%
Property, Plant and Equipment	6,754,086	6,803,389	(49,303)	-1%
Deferred Tax Assets	340,025	340,025	0	0%
TOTAL NON-CURRENT ASSETS	**41,264,777**	**40,304,880**	**959,897**	**2%**
TOTAL ASSETS	**54,309,630**	**53,591,119**	**718,511**	**1%**
CURRENT LIABILITIES				
Payables	1,739,511	1,780,433	(40,922)	-2%
Current Provisions	2,855,782	3,086,849	(231,066)	-7%
Unearned Revenue	12,132,400	12,379,552	(247,152)	-2%
TOTAL CURRENT LIABILITIES	**16,727,693**	**17,246,834**	**(519,140)**	**-3%**
NON-CURRENT LIABILITIES				
Non-Current Provisions	353,112	361,744	(8,632)	-2%
Deferred Tax Liabilities	397,240	397,240	0	0%
TOTAL NON-CURRENT LIABILITIES	**750,352**	**758,984**	**(8,632)**	**-1%**
TOTAL LIABILITIES	**17,478,045**	**18,005,817**	**(527,772)**	**-3%**
NET ASSETS	**36,831,585**	**35,585,302**	**1,246,284**	**4%**
EQUITY				
Share Capital	1	1	0	0%
Retained earnings	35,585,301	38,845,559	(3,260,258)	-8%
Net (Deficit) / Surplus	1,246,284	(3,260,258)	4,506,542	-138%
TOTAL EQUITY	**36,831,585**	**35,585,302**	**1,246,284**	**4%**

Table 1. Statement of Financial Position

The Statement of Financial Position (Table 1)

Equity has increased by 4% or $1,246,284 since December 2022. Key drivers are shown in Figure 2 below:

Figure 2. Changes in Equity – Year End 2022 to January 2023

3   Statement of Income

The Statement of Income compares APNIC's January 2023 revenue and expenditure against comparative period of budget and 2022 result.

Amount (AUD)	2023 YTD	2022 YTD	YTD Actual Change(%)	YTD Budget	YTD Actual vs YTD Budget (%)
Membership fees	2,088,093	2,048,317	2%	2,189,941	-5%
Non-Member fees	22,250	20,925	6%	21,343	4%
Reactivation fees	2,500	800	213%	1,880	33%
Sign-Up fees	18,000	22,000	-18%	24,517	-27%
Transfer fees	23,386	11,419	105%	18,020	30%
Sundry income	17,154	18,543	-7%	7,222	138%
Foundation receipts	135,618	151,640	-11%	301,159	-55%
Operating Revenue	**2,307,001**	**2,273,643**	**1%**	**2,564,082**	**-10%**
Investment income	114,252	54,954	108%	47,548	140%
TOTAL REVENUE	**2,421,253**	**2,328,598**	**4%**	**2,611,630**	**-7%**
Bank service fees	20,282	20,129	1%	21,750	-7%
Communication expenses	59,138	53,333	11%	59,858	-1%
Computer expenses	175,607	130,459	35%	179,709	-2%
Foundation funded project expenses	135,618	151,640	-11%	301,159	-55%
Depreciation expenses	58,535	56,312	4%	62,903	-7%
Doubtful debt expenses	19,803	(30,595)	-165%	1,667	1088%
ICANN contract fees	19,883	18,800	6%	19,883	0%
Insurance expenses	20,575	17,257	19%	20,575	0%
Meeting & training expenses	1,015	311	226%	1,820	-44%
Membership fees expenses	7,974	5,149	55%	5,364	49%
Office operating expenses	35,009	28,581	22%	35,754	-2%
Postage & delivery expenses	2	583	-100%	650	-100%
Printing & photocopy expenses	1,442	1,557	-7%	1,750	-18%
Professional fees	68,342	93,498	-27%	62,010	10%
Recruitment expenses	5,159	26,941	-81%	18,000	-71%
Salaries & personnel expenses	1,306,429	1,072,380	22%	1,468,009	-11%
Sponsorship & publicity expenses	21,579	6,003	259%	51,757	-58%
Staff training expenses	13,919	7,184	94%	15,000	-7%
Translation expenses	0	0	0%	0	0%
Travel expenses	125,861	3,174	3865%	142,583	-12%
TOTAL EXPENSES	**2,096,172**	**1,662,696**	**26%**	**2,470,203**	**-15%**
OPERATING SURPLUS / (DEFICIT)	**325,081**	**665,902**	**-51%**	**141,428**	**130%**
Revaluation of Financial Assets	921,203	(1,117,934)	182%	0	0%
SURPLUS / (DEFICIT) BEFORE TAX	**1,246,284**	**(452,032)**	**376%**	**141,428**	**781%**

Table 2. Statement of Income

The Statement of Income (Table 2)

Year-to-date, APNIC has delivered an operating surplus of $325,081 and a net surplus after fair value gain on financial assets of $1,246,284. The operating surplus was $183,653 above the original budget operating surplus of $141,428.

Revenue: Revenue (excluding Foundation projects) for the period was $24,836 below budget.

- **Membership revenue:** Membership Revenue for the month was $101,472 below budget. Membership fees was below budget by $101,848. Sign-up fees were below budget by $6,517 and Transfer fees were above budget by $5,366.

- **Foundation receipts and expenses:** Both full year Foundation project receipts and expenses were $165,541 below budget. Further details are provided in Section 8 – Foundation Funded Activities.

- **Investment Income:** Interest and portfolio investment income for the year was $66,704 above budget. Investment distributed income was $53,495 above budget. Further details are contained in the Credit Suisse investment report and commentary that accompany this financial report.

- **Sundry Income:** Sundry income was $9,932 above budget due to receiving ISOC event support.

Expenses: Operating expenses (excluding Foundation projects) for the period was $208,489 below budget. Major variances to budget include:

- **Salary & personnel expenses:** Salary and personnel expenses were $161,580 below budget.

- **Sponsorship & publicity expenses**: The expenses for the period were $30,179 below budget due to timing of NRO expenses.

- **Fair Value Loss on Financial Assets:** Fair value of the investment portfolio has increased by $921,203.

- Since inception in September 2013, the portfolio has returned 4.09% (after fees but before franking) against the benchmark (CPI + 2.5%) of 4.80%. The Credit Suisse investment report and commentary that accompany this financial report provide detailed analysis of the portfolio's performance over time.

- APNIC does not budget for investment valuation changes due to market volatility. Therefore, the decline in market value of the portfolio has impacted the actual net deficit vs. original budget.

4   Capital Expenditure

The table below provides overview of current capital expenditure as of January 2023.

Amount (AUD)	2023 YTD	2022 YTD	Year-on-Year Change (%)	Budget YTD	Actual vs Budget (%)
Equipment & Software	9,231	2,726	239%	30,000	-69%
Office Furniture & Fittings	0	29,837	**-100%**	25,000	-100%
Total - Capital Expenditure	**9,231**	**32,563**	-72%	**55,000**	-83%

Table 3. Capital Expenditure

Capital Expenditure (Table 3)

5   Activity Summary

5.1   Expenses

Expenses (AUD)	2023 YTD	2022 YTD	Year-on-Year Change (%)	Budget YTD	Actual vs Budget (%)
Member services	216,010	168,428	28%	227,462	-5%
Membership products	110,980	115,092	-4%	127,162	-13%
Membership reporting	44,215	40,233	10%	70,577	-37%
Total - Membership	**371,205**	**323,753**	**15%**	**425,202**	**-13%**
Registration services	57,684	50,714	14%	59,474	-3%
Registry products	199,121	166,625	20%	209,187	-5%
Policy development	73,505	27,286	169%	62,270	18%
Total - Registry	**330,310**	**244,626**	**35%**	**330,931**	**-0%**
APNIC conferences	86,975	42,347	105%	73,970	18%
Foundation support	0	17,452	-100%	0	0%
Community engagement	96,071	65,946	46%	178,373	-46%
Community participation	47,878	20,457	134%	51,393	-7%
APNIC academy	190,130	196,978	-3%	335,745	-43%
Internet infrastructure support	31,246	35,290	-11%	55,433	-44%
Total - Development	**452,300**	**378,469**	**20%**	**694,913**	**-35%**
Information products	174,227	89,880	94%	146,037	19%
Research and analysis	89,462	53,169	68%	83,238	7%
Total - Information	**263,689**	**143,049**	**84%**	**229,275**	**15%**
Internal technical infrastructure	287,704	205,278	40%	316,095	-9%
Finance and business services	200,967	182,436	10%	248,665	-19%
Employee experience	96,570	124,052	-22%	137,365	-30%
Governance	93,428	61,032	53%	87,757	6%
Total - Capability	**678,669**	**572,799**	**18%**	**789,883**	**-14%**
Total - Expenses	**2,096,172**	**1,662,696**	**26%**	**2,470,203**	**-15%**

Table 4. Expenses by Pillars and Workstreams

Activity Summary (Table 4)

This summary includes expenses grouped into pillars and workstreams as outlined in the 2023 Activity Plan.

- The Development Pillar expenses for the period were $242,613 below budget, of which $163,000 attributable to Foundation project progress, and $64,099 were from salaries and personnel costs.

Operating Budget Utilisation by Pillars is shown below in Figure 3. Percentage is comparing year-to-date actual on year-to-date budget expenditure.

Figure 3. Operating Budget Utilisation by Pillars

5.2 Capital Expenditure
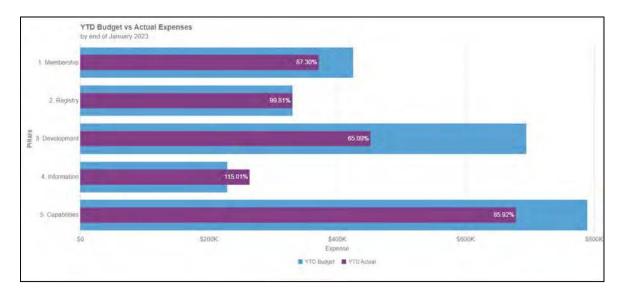
Amount (AUD)	2023 YTD	2022 YTD	Year-on-Year Change (%)	Budget YTD	Actual vs Budget (%)
Total - Membership	**0**	**0**	**0%**	**0**	**0%**
Total - Registry	**0**	**0**	**0%**	**0**	**0%**
APNIC conferences	0	0	0%	8,500	-100%
Total - Development	**0**	**0**	**0%**	**8,500**	**-100%**
Total - Information	**0**	**0**	**0%**	**0**	**0%**
Internal technical infrastructure	9,231	2,726	239%	21,500	-57%
Finance and business services	0	5,179	-100%	25,000	-100%
Employee experience	0	24,658	-100%	0	0%
Total - Capability	**9,231**	**32,563**	**-72%**	**46,500**	**-80%**
Total - Capital Expenses	**9,231**	**32,563**	**-72%**	**55,000**	**-83%**

Table 5. Capital Expenditure by Pillars and Workstreams

Capital Expenditure (Table 5)

Only those workstreams with actual or budget spend are shown. Workstreams not shown currently have zero budget or actual spendfor the year.

Capital Budget Utilisation by Pillars is shown below in Figure 4. Percentage is comparing year-to-date actual on year-to-date budget expenditure.

Figure 4. Capital Budget Utilisation by Pillars

6 APNIC Reserve

6.1 Cash Flow Statement
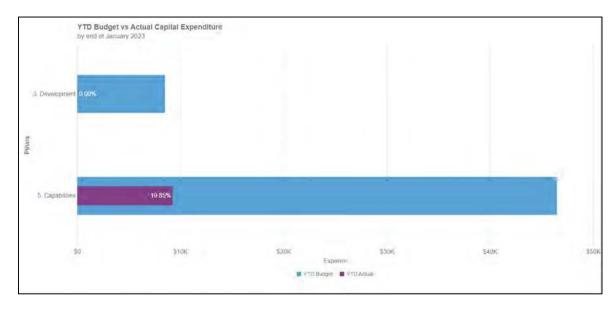
This report shows the cash flow status as at the end of January 2023.

Amount (AUD)	2023 YTD
Operating Activities	
YTD Net Deficit	**1,246,284**
Receivables	(676,147)
Other Current Asset	44,110
Payables	27,345
Withholding Tax Payable	43,705
Other Current Liabilities	(590,190)
Total Adjustments to Deficit	**(1,151,177)**
Total Operating Activities	**95,107**
Investing Activities	
Financial Assets	(1,009,200)
Property, Plant and Equipment	49,303
Total Investing Activities	**(959,897)**
Financing Activities	
Long Term Liabilities	(8,632)
Equity	0
Total Financing Activities	**(8,632)**
Net Change in Cash for Period	**(873,422)**
Cash at Beginning of Period	**10,008,537**
Cash at End of Period	**9,135,115**

Table 6. Cash Flow Statement

Cashflow Statement (Table 6)

- $676,147 increase in receivables due to Foundation project recharges.

- $590,190 decrease in other current liabilities due to reduction in unearned revenue and leave entitlements provision.

- $1,009,200 increase in financial assets due to appreciation in the value of investment portfolio.
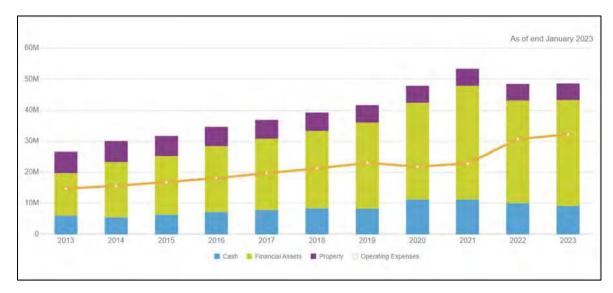
6.2 Capital Reserve

Figure 5. APNIC Reserves

Capital Reserve (Figure 5)

The Reserve is diversified between cash reserves, investment portfolio, and APNIC property (i.e. APNIC Office). At the end of January 2023, APNIC maintained $9,135,115 in cash reserves, $34,170,665 has been invested in the investment portfolio and $5,322,390 invested in APNIC Property.

Figure 5 above tracks the value and the allocation of these assets over time against the operating expenses for each year for comparison. The increase in the reserve between December 2022 and January 2023 was mainly due to the increase in value of the investment portfolio.

6.3 APNIC's Equity and Reserves

By comparing the Total Equity (including retained earnings and unrealised gains / losses on the investment portfolio), and the monthly operating expenses based on the actual and budget, excluding APNIC Foundation project expenses, the number of month's coverage of operational expenses is set out below:

	YTD 2023	Budget 2023	Actual 2022	Actual 2021*	Actual 2020*	Actual 2019
Total Equity (AUD)	36,831,585	34,485,909	35,585,302	38,845,560	34,176,883	30,724,702
% Equity Covered By Cash/ Cash Equivalents	118%	125%	121%	123%	124%	117%
Monthly Operating Expenses (AUD)	1,960,554	2,449,179	2,239,789	2,125,305	2,024,419	1,914,554
Number of Months of expenses covered by Equity	**18.79**	**14.08**	**15.89**	**18.28**	**16.88**	**16.05**

Table 7. Equity and Reserves

* Calculation is based on the average monthly operating expenses of the approved budget, excluding Foundation project expenses, as it better reflects the APNIC operating cost base in a COVID-free course of business.

7 Membership

7.1 Membership Summary

	2023 YTD	2022 YTD	Budget YTD
New Members	97	64	62
Reactivated Members	8	8	-
Closure	-24	-35	-29
Net Change	**81**	**37**	**33**
As at 1 Jan	9,268	8,768	9,268
Net Change	81	37	33
As at 31 Jan	9,349	8,805	9,301
Growth %	**0.87%**	**0.42%**	**0.36%**

Table 8. Net Membership Growth YTD

Membership Summary (Table 8)

Net membership growth (new & re-activated members less closures) is 0.87% for January 2023 vs 0.36% same time last year.

7.2 Membership by Category

Membership	Total Dec-22	YTD New Jan-23	Reactivation / Adjustment	YTD Closed Jan-23	YTD Size Change Jan-23	Total Jan-23	% Total
Extra Large	**27**	0	0	0	0	**27**	0%
Very Large	**49**	0	0	(1)	0	**48**	1%
Large	**158**	0	0	0	2	**160**	2%
Medium	**571**	0	0	(2)	4	**573**	6%
Small	**3,767**	5	3	(8)	7	**3,774**	40%
Very Small	**4,388**	44	2	(11)	(7)	**4,416**	47%
Associate	**308**	48	3	(2)	(6)	**351**	4%
TOTAL	**9,268**	**97**	**8**	**(24)**	**0**	**9,349**	**100%**

Table 9. Membership by Category

Membership by category (Table 9)

There were 105 new and reactivated members and 24 account closures in January 2023. Overall net membership growth for the month was 82 members. Year-to-date, there have been:

- 97 new members vs. 62 budgeted new members
- 24 closures vs. 29 budgeted account closures

As at the end of January 2023, APNIC had a total of 9,349 members serving 53 economies.

7.3 Membership by Economy

Figure 6. Membership by Economy

7.4 Membership Growth

Figure 7. Monthly Membership Movement

Figure 8. Total Membership by tier
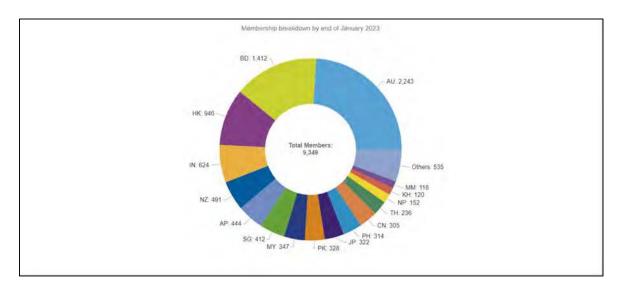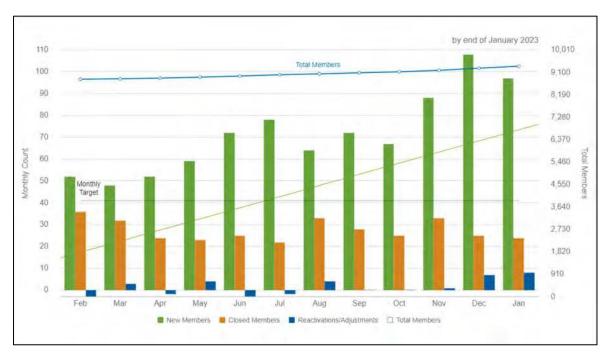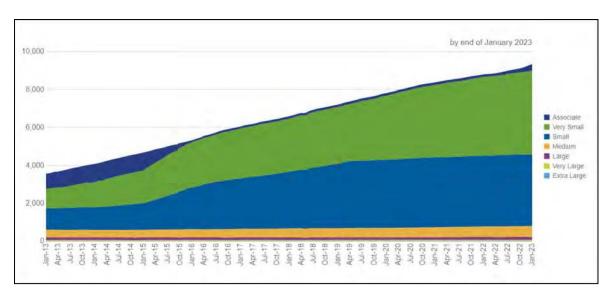
7.5 Year-to-Date Membership Movement by Economy

Figure 9. Membership Movement by Economy

Membership movement by economy (Figure 9)
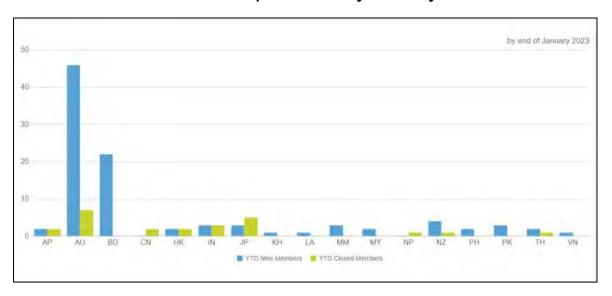
Figure 9 shows new and closed membership movement by economy as at end of January 2023.

- Top new member economies are Australia, Bangladesh and New Zealand.
- Top closed member economies are Australia, Japan and India.
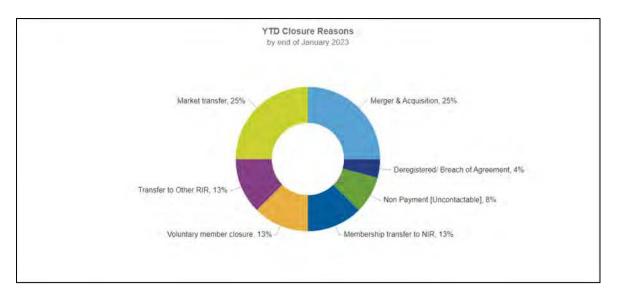
7.6 Membership Closures Analysis

Figure 10. Closure Analysis

Closure Analysis (Figure 10)

Figure 10 provides an analysis of Membership account closures as at the end of January 2023. 25.0% of the closures relate to accounts closed due to the failure to establish contact, the business is no longer operating, or breach of agreement, where resource holdings are returned to APNIC.

7.7 Membership Closures by Year Joined

Year Joined	Deregistered/ Breach of Agreement	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
2002			1	1				2			
2007				1				1			
2009				1				1			
2010							1	1		1	
2011				1				1			
2012		1						1			
2013				1			1	2			
2014	1	1						2	8	1	
2015		2			1	1		4	8	1	1
2016		1				1		2	2	1	1
2017		1		1				2		0	
2019			2			1		3			
2021					1			1	2	0	1
2022							1	1			
TOTAL	1	6	3	6	2	3	3	24	20	4	3

Table 10. Membership Closures by Year Joined

Membership Closures by Year Joined (Table 10)

Table 10 shows membership closures by year joined as at end of January 2023.

7.8 Membership Closures by Economy

Economy	Deregistered/ Breach of Agreement	Market transfer	Membership transfer to NIR	Merger & Acquisition	Non Payment [Uncontactable]	Voluntary member closure	Transfer to Other RIR	Total	IPV4 Resources Reclaimed (/24's)	IPV6 Resources Reclaimed (/32's)	ASN Reclaimed
AP				2				2			
AU		2		2		2	1	7	2	1	1
CN		2						2		1	
HK	1	1						2	8	2	1
IN			2	1				3			
JP		1	1		1	1	1	5	8		
NZ							1	1			
TH				1				1			
NP					1			1	2	0	1
TOTAL	1	6	3	6	2	3	3	24	20	4	3

Table 11. Membership Closures by Economy

Membership Closures by Economy (Table 11)

Table 11 shows membership closures by Economy as at end of January 2023.

8 APNIC Foundation Funded Activities

8.1 Foundation Summary

For greater transparency, APNIC reports Foundation receipts and Foundation expenses separately as 'Foundation receipts' (revenue) and 'Foundation funded project expenses' (expenses) in the Statement of Income. Previous accounting treatment was to offset the Foundation receipts and expenses within the Income Statement.

Major variances in Foundation receipts and expenses include:

- Academy: Delay in virtual lab billing.

- Training: Delays in onboarding training content development manager and trainers.

- Curriculum: Delay in IPGO project manager billing.
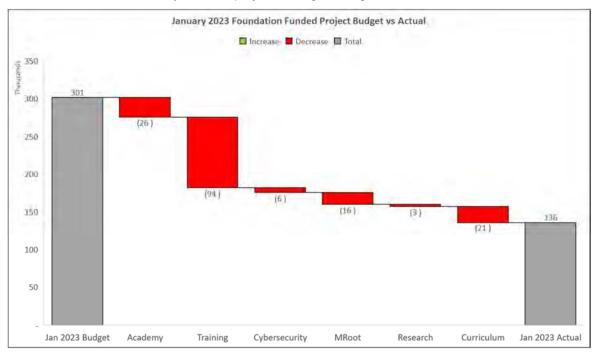
Figure 11. Foundation Funded Activities Budget vs Actual

CREDIT SUISSE

Investment Report 1.12.2022 – 31.12.2022

APNIC PTY LTD
Portfolio Group: 3000039

CREDIT SUISSE

Private Banking

Investment Report 1.12.2022 – 31.12.2022

Portfolio Group	**3000039**
In the Name of	APNIC PTY LTD
Produced on	12.1.2023
Reporting Currency	AUD
Relationship Manager	Patrick Armitage
Phone	+61 2 8205 4451

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APNIC PTY LTD
PO BOX 3646
SOUTH BRISBANE, QLD 4101
AUSTRALIA

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Scope of Analysis
as of 31.12.2022

Components	Portfolio	Asset Value in AUD	Discretionary Mandate	Opened	Closed	Performance Activation	Performance Deactivation
Portfolio Group: 3000039							
Investment related Positions							
AUD Portfolio	3000039-10	0		16.08.2013		31.12.2013	
AUD Portfolio	3000039-70	33,161,320	Yes	16.08.2013		31.12.2013	
Total Investments		**33,161,320**					
Total Wealth		**33,161,320**					
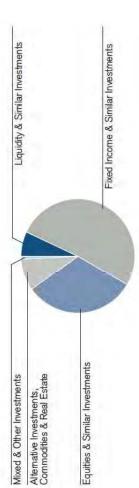
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1. Overview
1.1. Asset Allocation

Asset Allocation by Asset Category
Period 1.12.2022 - 31.12.2022
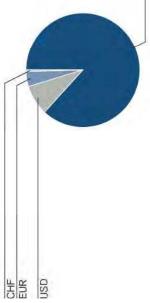
	Beginning Market Value in AUD	Change	Ending Market Value in AUD	Ending Market Value Prop.
Liquidity & Similar Investments	2,000,723	307,906	2,308,629	6.96%
Fixed Income & Similar Investments	17,317,803	-259,380	17,058,423	51.44%
Equities & Similar Investments	11,001,663	-495,015	10,506,649	31.68%
Alternative Investments, Commodities & Real Estate	3,185,267	-153,890	3,031,377	9.14%
Mixed & Other Investments	265,528	-9,285	256,243	0.77%
Total Investments	**33,770,984**		**33,161,320**	**100.00%**

Asset Allocation by Currency
Period 1.12.2022 - 31.12.2022

	Beginning Market Value in AUD	Change	Ending Market Value in AUD	Ending Market Value Prop.
AUD - Australian Dollar	29,290,136	-467,367	28,822,770	86.92%
USD - US Dollar	2,685,067	151,069	2,836,136	8.55%
EUR - Euro	1,426,407	-43,719	1,382,689	4.17%
CHF - Swiss Franc	120,243	-530	119,714	0.36%
GBP - Pound Sterling	12	0	12	
JPY - Japan Yen	249,118	-249,118	0	
Total Investments	**33,770,984**		**33,161,320**	**100.00%**

CHF
EUR
USD
AUD

Investments in %

Mixed & Other Investments
Alternative Investments, Commodities & Real Estate
Equities & Similar Investments
Liquidity & Similar Investments
Fixed Income & Similar Investments

Investments in %

CREDIT SUISSE

1.2. Income and Activity

Income Summary
Period 1.12.2022 - 31.12.2022

	Current Period in AUD	Year to Date in AUD
Cash Dividend	62,170	645,539
Coupon Received/Paid	0	3,746
Interest Earned	2,686	16,771
Interest Paid	0	-15
Net Income	**64,856**	**666,042**
Non-Investment Related Income	0	0

Activity Summary
Period 1.12.2022 - 31.12.2022

	Current Period in AUD	Year to Date in AUD
Asset Inflows	0	0
Asset Outflows	0	0
Net Investment Asset Flows	**0**	**0**
Net Non-Investment Flows	0	0

1.3. Performance

Performance Summary
Period 1.12.2022 - 31.12.2022

	Asset Value in AUD	Asset Value in AUD
Ending Market Value		33,161,320
Beginning Market Value		33,770,984
Asset Flows including		-4,475
Inflows	0	
Outflows	0	
Net Non-Investment Flows	0	
Taxes	-4,475	
Flow Adjusted Value Change		-605,188
Cumulative Portfolio Return – net		**-1.79%**

0.5%		
0.0%		
-0.5%		
-1.0%		
-1.5%		
-2.0%		
-2.5%		

Dec 22

— Cumulative Portfolio Return
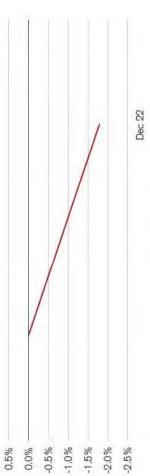
Performance Year-to-date
Period 1.1.2022 - 31.12.2022

	Asset Value in AUD	Asset Value in AUD
Ending Market Value		33,161,320
Beginning Market Value		36,710,697
Asset Flows including		-18,545
Inflows	0	
Outflows	0	
Net Non-Investment Flows	0	
Taxes	-18,545	
Flow Adjusted Value Change		-3,530,831
Cumulative Portfolio Return – net		**-9.62%**

6.0%	
3.0%	
0.0%	
-3.0%	
-6.0%	
-9.0%	
-12.0%	
-15.0%	
-18.0%	

Jan 22 Feb 22 Mar 22 Apr 22 May 22 Jun 22 Jul 22 Aug 22 Sep 22 Oct 22 Nov 22 Dec 22

— Cumulative Portfolio Return

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2. Analyses

2.1. Performance
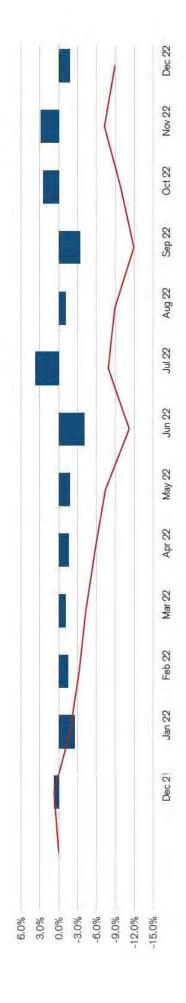
Performance Details
Period 1.12.2021 – 31.12.2022

	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22
Ending Market Value	36,710,697	35,783,036	35,249,681	34,862,649	34,321,691	33,723,858	32,342,078	33,552,391	33,178,607	32,062,231	32,837,433	33,770,984	33,161,320
Beginning Market Value	36,438,632	36,710,697	35,783,036	35,249,681	34,862,649	34,321,691	33,723,858	32,342,078	33,178,607	33,552,391	32,062,231	32,837,433	33,770,984
Asset Flows including	-4,869	0	0	-4,892	0	0	-4,683	0	0	-4,496	0	0	-4,475
Inflows	0	0	0	0	0	0	0	0	0	0	0	0	0
Outflows	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Non-Investment Flows	0	0	0	0	0	0	0	0	0	0	0	0	0
Taxes	-4,869	0	0	-4,892	0	0	-4,683	0	0	-4,496	0	0	-4,475
Flow Adjusted Value Change	276,934	-927,660	-533,356	-382,140	-540,958	-597,833	-1,377,097	1,210,313	-373,784	-1,111,880	775,202	933,551	-605,180
Portfolio Return – net	0.76 %	-2.53 %	-1.49 %	-1.08 %	-1.55 %	-1.74 %	-4.08 %	3.74 %	-1.11 %	-3.35 %	2.42 %	2.84 %	-1.79 %
Cumulative Portfolio Return	0.76 %	-1.79 %	-3.25 %	-4.30 %	-5.78 %	-7.43 %	-11.21 %	-7.88 %	-8.91 %	-11.96 %	-9.83 %	-7.27 %	-8.93 %

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2.2. Contribution Analysis

Multi-Period Contribution by Asset Category in %
as of 31.12.2022

	Month To Date	Quarter To Date	Year To Date	1 Year	Current Period
Liquidity & Similar Investments	-0.12	-0.13	-0.51	-0.51	-0.12
Fixed Income & Similar Investments	-0.69	0.86	-5.82	-5.82	-0.69
Equities & Similar Investments	-0.94	2.46	-2.24	-2.24	-0.94
Alternative Investments, Commodities & Real Estate	-0.01	0.23	-0.78	-0.78	-0.01
Mixed & Other Investments	-0.03	0.03	-0.27	-0.27	-0.03
Total – net *	**-1.79**	**3.44**	**-9.62**	**-9.62**	**-1.79**

Multi-Period Contribution by Currency in %
as of 31.12.2022

	Month To Date	Quarter To Date	Year To Date	1 Year	Current Period
AUD - Australian Dollar	-1.37	2.99	-7.65	-7.65	-1.37
USD - US Dollar	-0.27	0.19	-1.07	-1.07	-0.27
EUR - Euro	-0.13	0.20	-0.76	-0.76	-0.13
JPY - Japan Yen	-0.02	0.05	-0.16	-0.16	-0.02
CHF - Swiss Franc	-	0.02	0.02	0.02	-
GBP - Pound Sterling	-	-	0.01	0.01	-
Total – net *	**-1.79**	**3.44**	**-9.62**	**-9.62**	**-1.79**
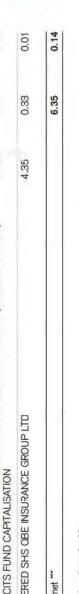
*** If applicable, fees charged in the relevant currency will be deducted from the cash account contribution, which is part of the Liquidity & Similar Investments asset category.

CREDIT SUISSE

2.3. Contribution - Top Contributors & Detractors
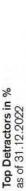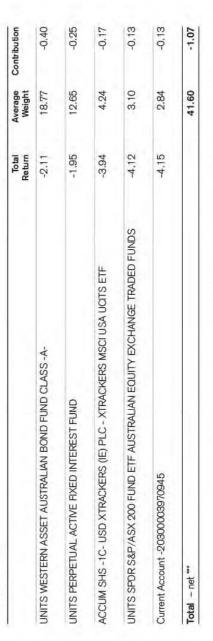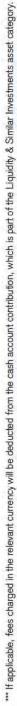
Top Contributors in %
as of 31.12.2022

	Total Return	Average Weight	Contribution
UNITS SHS HEDGED AUD MUZINICH FUNDS - MUZINICH EMERGING MARKET CORPORATE DEBT FUND	1.75	2.22	0.04
REGISTERED SHS RIO TINTO LTD	6.27	0.60	0.03
SHS -IX- NINETY ONE GLOBAL STRATEGY FUND SICAV - EMERGING MARKETS LOCAL CURRENCY TOTAL RETURN DEBT FUND DISTRIBUTION	1.94	1.62	0.03
SHS -B- LUMYNA-MARSHALL WACE UCITS SICAV - LUMYNA - MW ESG (MARKET NEUTRAL) TOPS UCITS FUND CAPITALISATION	1.28	1.60	0.02
REGISTERED SHS QBE INSURANCE GROUP LTD	4.35	0.33	0.01
Total – net ***		**6.35**	**0.14**

Top Detractors in %
as of 31.12.2022

	Total Return	Average Weight	Contribution
UNITS WESTERN ASSET AUSTRALIAN BOND FUND CLASS -A-	-2.11	18.77	-0.40
UNITS PERPETUAL ACTIVE FIXED INTEREST FUND	-1.95	12.65	-0.25
ACCUM SHS -1C- USD XTRACKERS (IE) PLC - XTRACKERS MSCI USA UCITS ETF	-3.94	4.24	-0.17
UNITS SPDR S&P/ASX 200 FUND ETF AUSTRALIAN EQUITY EXCHANGE TRADED FUNDS	-4.12	3.10	-0.13
Current Account -20300003970945	-4.15	2.84	-0.13
Total – net ***		**41.60**	**-1.07**

*** If applicable, fees charged in the relevant currency will be deducted from the cash account contribution, which is part of the Liquidity & Similar Investments asset category.

CREDIT SUISSE

3. Positions

3.1. Investment Related Positions
as of 31.12.2022

Number/ Nominal	Description / Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
Liquidity & Similar Investments						
Accounts						
AUD 975,622.33	Current Account -203000003970945 AUD Portfolio: 3000039-70	1.0000		975,622 2.94%		
GBP 6.99	Current Account -203000003970089 AUD Portfolio: 3000039-70	1.0000 1.8602 GBP/AUD		12	-1 -1	-4.45% -4.45%
USD 119,844.40	Current Account -203000003970780 AUD Portfolio: 3000039-70	1.0000 0.6771 AUD/USD		176,866 0.53%	-124 -124	-0.07% -0.07%
Total Accounts				1,152,501 0 3.48%		
Money Market Funds						
AUD 1,103,702.466	UNITS UBS CASH FUND AUD Portfolio: 3000039-70	AU60SBC08113 1567633	1.0463	1.0475 NAV 30.12.2022	1,156,128 3.49%	1,295 1,295	0.11% 0.11%
Total Money Market Funds				1,156,128 0 3.49%		
Total Liquidity & Similar Investments				**2,308,629 0 6.96%**		

Fixed Income & Similar Investments
Fixed Income & Similar Investments AUD

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price/ Type / Date	Value in AUD of which Accrued Interest / Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument / of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 694,000	5.5 % NOTES COMMONWEALTH OF AUSTRALIA 2011-21.4.23 SERIES TB133 Duration: 0.2975 / Rating: Moody's Aaa AUD Portfolio: 3000039-70	AU3TB0000101 13063134	101.3966%	100.6900% BID 30.12.2022	706,234 7,445 2.13%	-4,904 -4,904	-0.70% -0.70%
AUD 866,342.7	UNITS -D- ISHARES AUSTRALIAN BOND INDEX FUND AUD Portfolio: 3000039-70	AU60BGL01056 2244170	1.0394	0.9067 NAV 30.12.2022	785,528 2.37%	-114,934 -114,934	-12.76% -12.76%
AUD 4,589,831.718100	UNITS PERPETUAL ACTIVE FIXED INTEREST FUND AUD Portfolio: 3000039-70	AU60PER02627 35661784	1.0474	0.9092 NAV 30.12.2022	4,172,836 12.58%	-634,737 -634,737	-13.20% -13.20%
AUD 5,549,606.8822	UNITS WESTERN ASSET AUSTRALIAN BOND FUND CLASS -A- AUD Portfolio: 3000039-70	AU60SB01221 2248336	1.2575	1.1142 NAV 30.12.2022	6,183,538 18.65%	-795,158 -795,158	-11.39% -11.39%
AUD 49,678	SHS -I- AUD NEUBERGER BERMAN INVESTMENT FUNDS PLC - NEUBERGER BERMAN EMERGING MARKET DEBT - HARD CURRENCY FUND AUD Portfolio: 3000039-70	IE00B986FB81 53616359	10.6287	7.8100 NAV 30.12.2022	387,985 1.17%	-140,027 -140,027	-26.52% -26.52%
AUD 380,221	SHS -L3- HEDGED AUD FEDERATED HERMES INVESTMENT FUNDS PLC - FEDERATED HERMES GLOBAL HIGH YIELD CREDIT FUND AUD Portfolio: 3000039-70	IE00BMZ15N91 57259812	3.0352	2.6869 NAV 30.12.2022	1,021,616 3.08%	-132,446 -132,446	-11.48% -11.48%

3. Positions / 3.1. Investment Related Positions

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price/ Type / Date	Value in AUD / of which Accrued Interest / Proportion in %	Profit/ Loss Unrealized in AUD / of which Instrument / of which Forex	P/L Unreal. in % / Instr. in % / FX in %
AUD 9,599	UNITS SHS HEDGED AUD MUZINICH FUNDS - MUZINICH EMERGING MARKET CORPORATE DEBT FUND / AUD Portfolio: 3000039-70	IE00BNC55647 / 110844223	97.4683	77.8200 NAV / 30.12.2022	746,994 / 2.25%	-188,604 / -188,604	-20.16% / -20.16%
AUD 11,116	SHS-CH-ROBECO CAPITAL GROWTH FUNDS SICAV - ROBECOSAM GLOBAL SDG CREDITS DISTRIBUTION / AUD Portfolio: 3000039-70	LU2207422291 / 56320962	99.0605	80.2300 NAV / 29.12.2022	891,837 / 2.69%	-209,320 / -209,320	-19.01% / -19.01%
AUD 9,119	SHS -EAH- CS INVESTMENT FUNDS 1 SICAV - CREDIT SUISSE (LUX) GLOBAL INFLATION LINKED BOND FUND DISTRIBUTION / AUD Portfolio: 3000039-70	LU2407926216 / 114771252	100.0000	93.6600 NAV / 30.12.2022	854,086 / 2.58%	-57,814 / -57,814	-6.34% / -6.34%
AUD 25,916	SHS -IX- NINETY ONE GLOBAL STRATEGY FUND SICAV - EMERGING MARKETS LOCAL CURRENCY TOTAL RETURN DEBT FUND DISTRIBUTION / AUD Portfolio: 3000039-70	LU2445645851 / 117293159	19.9500	20.9900 NAV / 30.12.2022	543,977 / 1.64%	26,953 / 26,953	5.21% / 5.21%
AUD 8,374	SHS -S -AUD (QIDIV)-BLUEBAY FUNDS SICAV - BLUEBAY GLOBAL INVESTMENT GRADE CORPORATE BOND FUND DISTRIBUTION / AUD Portfolio: 3000039-70	LU2457787914 / 118776845	100.0000	91.2100 NAV / 30.12.2022	763,793 / 2.30%	-73,607 / -73,607	-8.79% / -8.79%
Total Fixed Income & Similar Investments					17,058,423 / 7,445 / 51.44%		

Equities & Similar Investments
Equities & Similar Investments AUD

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 39,898	REGISTERED SHS ALUMINA LTD AUD Portfolio: 3000039-70	AU000000AWC3 1526402 AWC.AX	1.8361	1.5200 CLO 30.12.2022	60,645 0.18%	-12,611 -12,611	-17.22% -17.22%
AUD 34,858	REGISTERED SHS AURIZON HOLDINGS LTD AUD Portfolio: 3000039-70	AU000000AZJ1 20175896 AZJ.AX	4.5903	3.7300 CLO 30.12.2022	130,020 0.39%	-29,988 -29,988	-18.74% -18.74%
AUD 12,758	REGISTERED SHS BHP GROUP LTD AUD Portfolio: 3000039-70	AU000000BHP4 640390 BHP.AX	32.9558	45.6300 CLO 30.12.2022	582,148 1.76%	161,698 161,698	38.46% 38.46%
AUD 3,471	REGISTERED SHS CARSALES.COM LTD AUD Portfolio: 3000039-70	AU000000CAR3 10476764 CAR.AX	16.7162	20.7600 CLO 30.12.2022	72,058 0.22%	14,036 14,036	24.19% 24.19%
AUD 2,870	REGISTERED SHS COMMONWEALTH BANK OF AUSTRALIA AUD Portfolio: 3000039-70	AU000000CBA7 646758 CBA.AX	81.5356	102.6000 CLO 30.12.2022	294,462 0.89%	60,455 60,455	25.84% 25.84%
AUD 4,671	REGISTERED SHS COMPUTERSHARE LTD AUD Portfolio: 3000039-70	AU000000CPU5 241285 CPU.AX	16.0032	26.2000 CLO 30.12.2022	122,380 0.37%	47,629 47,629	63.72% 63.72%
AUD 998	REGISTERED SHS CSL LTD AUD Portfolio: 3000039-70	AU000000CSL8 241548 CSL.AX	178.5819	287.7600 CLO 30.12.2022	287,184 0.87%	108,960 108,960	61.14% 61.14%

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Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price / Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 3,055	REGISTERED SHS FLIGHT CENTRE TRAVEL GROUP LTD AUD Portfolio: 3000039-70	AU000000FLT9 90307 FLT.AX	18.6876	14.4900 CLO 30.12.2022	44,267 0.13%	-12,824 -12,824	-22.46% -22.46%
AUD 255	REGISTERED SHS MACQUARIE GROUP LTD AUD Portfolio: 3000039-70	AU000000MQG1 3422370 MQG.AX	85.9818	166.9600 CLO 30.12.2022	42,575 0.13%	20,649 20,649	94.18% 94.18%
AUD 8,982	REGISTERED SHS NATIONAL AUSTRALIA BANK LTD AUD Portfolio: 3000039-70	AU000000NAB4 641643 NAB.AX	24.5148	30.0600 CLO 30.12.2022	269,999 0.81%	49,807 49,807	22.62% 22.62%
AUD 4,479	REGISTERED SHS NEWCREST MINING LTD AUD Portfolio: 3000039-70	AU000000NCM7 650853 NCM.AX	27.6429	20.6400 CLO 30.12.2022	92,447 0.28%	-31,366 -31,366	-25.33% -25.33%
AUD 27,933	REGISTERED SHS NINE ENTERTAINMENT CO. HOLDINGS LTD AUD Portfolio: 3000039-70	AU000000NEC4 22858707 NEC.AX	2.7241	1.8400 CLO 30.12.2022	51,397 0.16%	-24,696 -24,696	-32.46% -32.46%
AUD 9,661	REGISTERED SHS ORIGIN ENERGY LTD AUD Portfolio: 3000039-70	AU000000ORG5 1051439 ORG.AX	7.5195	7.7200 CLO 30.12.2022	74,583 0.23%	1,937 1,937	2.67% 2.67%
AUD 10,278	REGISTERED SHS QANTAS AIRWAYS LTD AUD Portfolio: 3000039-70	AU000000QAN2 390413 QAN.AX	5.6657	6.0100 CLO 30.12.2022	61,771 0.19%	3,539 3,539	6.08% 6.08%
AUD 8,445	REGISTERED SHS QBE INSURANCE GROUP LTD AUD Portfolio: 3000039-70	AU000000QBE9 641857 QBE.AX	11.6722	13.4300 CLO 30.12.2022	113,416 0.34%	14,845 14,845	15.06% 15.06%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price / Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 1,775	REGISTERED SHS RIO TINTO LTD AUD Portfolio: 3000039-70	AU000000RIO1 603520 RIO.AX	79.2646	116.4100 CLO 30.12.2022	206,628 0.62%	65,933 65,933	46.86% 46.86%
AUD 3,001	SHS RESMED INC CHESS DEPOSITORY INTERESTS REPR 1/10 SH AUD Portfolio: 3000039-70	AU000000RMD6 1058638 RMD.AX	25.7058	30.9600 CLO 30.12.2022	92,911 0.28%	15,768 15,768	20.44% 20.44%
AUD 24,579	REGISTERED SHS SOUTH32 LTD AUD Portfolio: 3000039-70	AU000000S320 27547963 S32.AX	2.9484	4.0000 CLO 30.12.2022	98,316 0.30%	25,848 25,848	35.67% 35.67%
AUD 92,105	UNITS SPDR S&P/ASX 200 LISTED PROPERTY FUND AUD Portfolio: 3000039-70	AU000000SLF1 1377855 SLF.AX	12.3315	10.7800 CLO 30.12.2022	992,892 2.99%	-142,896 -142,896	-12.58% -12.58%
AUD 9,161	REGISTERED SHS SANTOS LTD AUD Portfolio: 3000039-70	AU000000STO6 641959 STO.AX	7.3276	7.1400 CLO 30.12.2022	65,410 0.20%	-1,718 -1,718	-2.56% -2.56%
AUD 15,976	UNITS SPDR S&P/ASX 200 FUND ETF AUSTRALIAN EQUITY EXCHANGE TRADED FUNDS AUD Portfolio: 3000039-70	AU000000STW9 1285707 STW.AX	66.1214	63.5100 CLO 30.12.2022	1,014,636 3.06%	-41,720 -41,720	-3.95% -3.95%
AUD 14,246	REGISTERED SHS TELSTRA GROUP LIMITED AUD Portfolio: 3000039-70	AU000000TLS2 122480384 TLS.AX	4.5550	3.9900 CLO 30.12.2022	56,842 0.17%	-8,049 -8,049	-12.40% -12.40%
AUD 3,230	SHS VANGUARD MSCI AUSTRALIAN SMALL COMPANIES INDEX ETF EXCHANGE TRADED FUND AUD Portfolio: 3000039-70	AU000000VSO2 13053435 VSO.AX	60.3498	62.8400 CLO 30.12.2022	202,973 0.61%	8,043 8,043	4.13% 4.13%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 11,015	REGISTERED SHS WESTPAC BANKING CORP AUD Portfolio: 3000039-70	AU000000WBC1 642372 WBC.AX	26.6178	23.3500 CLO 30.12.2022	257,200 0.78%	-35,994 -35,994	-12.28% -12.28%
AUD 1,031	REGISTERED SHS WESFARMERS LTD AUD Portfolio: 3000039-70	AU000000WES1 642397 WES.AX	34.0342	45.9100 CLO 30.12.2022	47,333 0.14%	12,244 12,244	34.89% 34.89%
AUD 4,279	REGISTERED SHS WORLEY LTD AUD Portfolio: 3000039-70	AU000000WOR2 1524357 WOR.AX	12.6649	15.0000 CLO 30.12.2022	64,185 0.19%	9,992 9,992	18.44% 18.44%
AUD 2,499	REGISTERED SHS WOOLWORTHS GROUP LTD AUD Portfolio: 3000039-70	AU000000WOW2 81350 WOW.AX	34.1257	33.5600 CLO 30.12.2022	83,866 0.25%	-1,414 -1,414	-1.66% -1.66%
AUD 7,762	REGISTERED SHS COLES GROUP LTD AUD Portfolio: 3000039-70	AU000030678 44059594 COL.AX	16.9597	16.7200 CLO 30.12.2022	129,781 0.39%	-1,861 -1,861	-1.41% -1.41%
AUD 2,590	UNITS VANGUARD ETHICALLY CONSCIOUS AUST ETF EXCHANGE TRADED FUND AUD Portfolio: 3000039-70	AU0000103533 57145371 VETH.AX	58.0530	54.5600 CLO 30.12.2022	141,310 0.43%	-9,047 -9,047	-6.02% -6.02%
AUD 6,677	REGISTERED SHS WOODSIDE ENERGY GROUP LTD AUD Portfolio: 3000039-70	AU0000224040 119209424 WDS.AX	25.7078	35.4400 CLO 30.12.2022	236,633 0.71%	64,982 64,982	37.86% 37.86%
AUD 9,951	REGISTERED SHS AUSTRALIA & NEW ZEALAND BANKING GROUP LTD ISSUE 22/ENTITLE TO SHARE ANZ GRP AUD Portfolio: 3000039-70	AU0000261372 123887458	26.3956	23.6600 CLO 30.12.2022	235,441 0.71%	-27,222 -27,222	-10.36% -10.36%

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 45,147.8135	UNITS EIGER AUSTRALIAN SMALL COMPANIES FUND AUD Portfolio: 3000039-70	AU60HOW29675 112847137	1.7805	1.3896 NAV 30.12.2022	62,737 0.19%	-17,646 -17,646	-21.95% -21.95%
AUD 47,433.4328	UNITS PERENNIAL BETTER FUTURE TRUST AUD Portfolio: 3000039-70	AU60WPC56007 112127492	1,3598	1.1918 NAV 30.12.2022	56,531 0.17%	-7,970 -7,970	-12.36% -12.36%
Total Equities & Similar Investments AUD					6,344,976 0 19.13%		
Equities & Similar Investments CHF							
CHF 5,705	SHS -S- STATE STREET GLOBAL ADVISORS LUXEMBOURG SICAV - STATE STREET SWITZERLAND INDEX EQUITY FUND CAPITALISATION AUD Portfolio: 3000039-70	LU1652661379 37905740	12.4295 0.6263 AUD/CHF	13.1367 NAV 29.12.2022	119,714 0.36%	6,486 6,445 42	5.73% 5.69% 0.04%
Total Equities & Similar Investments CHF					119,714 0 0.36%		
Equities & Similar Investments EUR							
EUR 3,614	ACCUM.PTG.SHS WELLINGTON MANAGEMENT FUNDS (IRELAND) PLC - WELLINGTON STRATEGIC EUROPEAN EQUITY FUND CLASS -N- UNHEDGED EUR AUD Portfolio: 3000039-70	IE00B9DPD161 20938626	15.8682 1.5372 EUR/AUD	22.0305 NAV 30.12.2022	125,059 0.38%	36,906 34,981 1,925	41.87% 39.68% 2.18%
EUR 25,880	ACCUM SHS -1C- USD XTRACKERS(IE)PLC - XTRACKERS MSCI WORLD ESG UCITS ETF AUD Portfolio: 3000039-70	IE00BZ02LR44 41359963 XZW0.DE	27.7044 1.5414 EUR/AUD	26.7500 CLO 30.12.2022	1,087,401 3.28%	-17,802 -38,798 20,997	-1.61% -3.51% 1.90%

3. Positions / 3.1. Investment Related Positions

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
EUR 707	SHS -TFC- DWS INVEST SICAV - DWS INVEST ESG EQUITY INCOME CAPITALISATION AUD Portfolio: 3000039-70	LU1747711031 40320173	155.8400 1.4921 EUR/AUD	153.2900 NAV 30.12.2022	170,229 0.51%	5,833 -2,832 8,665	3.55% -1.72% 5.27%
Total Equities & Similar Investments EUR					1,382,689 0 4.17%		
Equities & Similar Investments USD							
USD 3,708	ACCUM.SHS ISHARES III PLC - ISHARES CORE MSCI JAPAN IMI UCITS ETF USD AUD Portfolio: 3000039-70	IE00B4L5YX21 10608419 ISJPA.L	43.3355 0.6761 AUD/USD	42.8100 CLO 30.12.2022	234,267 0.71%	-3,411 -2,876 -535	-1.44% -1.21% -0.23%
USD 8,712	ACCUM SHS -1C- USD XTRACKERS (IE) PLC - XTRACKERS MSCI USA UCITS ETF AUD Portfolio: 3000039-70	IE00BJ0KDR00 24268896 XD9U.L	105.7350 0.7245 AUD/USD	108.4000 CLO 30.12.2022	1,393,714 4.20%	122,211 34,265 87,946	9.61% 2.70% 6.92%
USD 11,551	SHS -R (ACC.)- GOLDMAN SACHS FUNDS SICAV - GOLDMAN SACHS EMERGING MARKETS EQUITY PORTFOLIO CAPITALISATION AUD Portfolio: 3000039-70	LU0830622741 19578737	16.3327 0.7203 AUD/USD	13.6800 NAV 30.12.2022	233,202 0.70%	-28,716 -45,221 16,504	-10.96% -17.27% 6.30%
USD 1,985	SHS ISHARES GLOBAL HEALTHCARE ETF AUD Portfolio: 3000039-70	US4642873255 1352444 IXJ.P	86.8369 0.7294 AUD/USD	84.8800 CLO 30.12.2022	248,652 0.75%	12,345 -5,733 18,078	5.22% -2.43% 7.65%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
USD 12,381	SHS ISHARES ESG AWARE MSCI EM ETF AUD Portfolio: 3000039-70	US46434G8630 33080862 ESGE.OQ	39.5584 0.7305 AUD/USD	30.0700 CLO 30.12.2022	549,434 1.66%	-121,045 -173,370 52,325	-18.05% -25.86% 7.80%
Total Equities & Similar Investments USD					2,659,270 0 8.02%	0	
Total Equities & Similar Investments					**10,506,649** **0** **31.68%**		

Alternative Investments, Commodities & Real Estate

Hedge Funds

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 175,313	UNITS PARTNERS GROUP GLOBAL VALUE FUND (AUD) WHOLESALE AUD Portfolio: 3000039-70	AU60ETL02762 26607292	2.1653	3.2016 NAV 30.11.2022	561,282 1.69%	181,685 181,685	47.86% 47.86%
AUD 6,256	ACCUM SHS -I- HEDGED AUD PGIM FUNDS PLC - PGIM WADHWANI KEYNES SYSTEMATIC ABSOLUTE RETURN FUND AUD Portfolio: 3000039-70	IE00BKV41X02 54282717	106.6534	125.2950 NAV 30.12.2022	783,846 2.36%	116,622 116,622	17.48% 17.48%
AUD 1,941	SHS -D2 HEDGED- BLACKROCK STRATEGIC FUNDS SICAV - BLACKROCK EMERGING COMPANIES ABSOLUTE RETURN FUND CAPITALISATION AUD Portfolio: 3000039-70	LU2402058403 114466865	98.2200	77.5700 NAV 30.12.2022	150,563 0.45%	-40,082 -40,082	-21.02% -21.02%
AUD 5,005.487	SHS -B- LUMYNA-MARSHALL WACE UCITS SCAV - LUMYNA - MW ESG (MARKET NEUTRAL) TOPS UCITS FUND CAPITALISATION AUD Portfolio: 3000039-70	LU2430035803 117027980	106.4772	107.8642 NAV 30.12.2022	539,913 1.63%	6,943 6,943	1.30% 1.30%

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Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 9,409	UNITS -D- BCV FUND (LUX) FCP - BCV LIQUID ALTERNATIVE BETA CAPITALISATION AUD Portfolio: 3000039-70	LU2487461068 119435425	99.9613	101.4500 NAV 30.12.2022	954,543 2.88%	14,007 14,007	1.49% 1.49%
Total Hedge Funds					2,990,147 0 9.02%		
Real Estate							
AUD 2,375	STAPLED SECURITY GOODMAN GROUP AUD Portfolio: 3000039-70	AU000000GMG2 18079202 GMG.AX	11.0006	17.3600 CLO 30.12.2022	41,230 0.12%	15,104 15,104	57.81% 57.81%
Total Real Estate					41,230 0 0.12%		
Total Alternative Investments, Commodities & Real Estate					3,031,377 0 9.14%		
Mixed & Other Investments							
AUD 241,312.01	UNITS BLACKROCK GLOBAL ALLOCATION FUND (AUST) CLASS-D- WHOLESALE AUD Portfolio: 3000039-70	AU60MAL00181 3379478	1.2351	1.0619 NAV 30.12.2022	256,243 0.77%	-41,809 -41,809	-14.03% -14.03%
Total Mixed & Other Investments					256,243 0 0.77%		
Total Investments					33,161,320 100.00%		
of which Accrued Interest					7,445		

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4. Appendix

4.1. Explanations

Accrued Interest

Accrued interest is not displayed for financial instruments with variable interest rate or frequency within the same interest period, except for Floating Rate Notes. For FINER Revexus, the accrued interest displayed is based on the deposit currency for reference purpose only. Entitlement to the accrued interest depends on the product features. All accrued interests are displayed in the reporting currency of the portfolio and are calculated recognizing trades end of day. The FX conversion rates (reflected below) are used to convert the amount from original currency to reporting currency. The accrued interest payable/receivable is displayed as the net amount on Current Account balances. As a result of the foregoing and other factors, the accrued interest is only an estimate and may not reflect the actual interest accrued, if any.

Activity Summary

The asset inflows and outflows include client-instructed transactions, which are aggregated as Net Investment Asset Flows. Non-Investment Flows refer to transactions related to Non-Investment Related Positions such as loan transactions to finance such Non-Investment Related Positions. Non-investment Flows do not contribute to the performance of the account. Such asset inflows and outflows do not include fees and taxes.

Analyses

Values displayed for the respective month labels are as of month-end dates. If the report end period is not a month-end, the report period end month label will show the values as of the report period end date.

Asset Classification

If an instrument is classified as 'not classifiable', the instrument is pending its proper classification. As soon this is available in the system, the instrument will reflect the correct classification.

Cost Valuation Exchange Rates

For the Positions section, the cost valuation exchange rate displayed is always the instrument currency against the portfolio currency.
For the Transactions section, the cost valuation exchange rate displayed is always between the instrument currency and reporting currency. For execution of FX purchase/sale transactions, the transaction valuation is based on the end of day exchange rate on the value date and the cost valuation is based on the FX contract rate.

Duration

Modified duration is a change in the price of a bond arising from a change in market yields. Modified duration is expressed as an approximate percentage. The investment report displays the Modified Duration method for all Fixed Income instruments.

Fees / Taxes

Fees include management or safekeeping fees.
Taxes include value-added taxes and service related taxes, depending on country specific rules.

Income Summary

Coupon received and coupon paid, as well as interest earned and interest paid, does not include accrued or unpaid coupon or interest.
Year to date figures include the addition of the monthly figures inclusive of any backdated income processing/ adjustments.
Figures shown can be gross or net depending on the specific country and market practice.
Non-Investment related Income is included in the Income Summary.

Market Value

The values stated as begin of period are asset values as of the last reported statement period.
The values stated as beginning/ ending market values are asset values that are inclusive of most updated market prices and backdated transactions.

Non-allocable Effect

As a general rule, in most cases the sum of all the return contributions usually equal the portfolio return figure indicated. In some cases, however, the two figures may not tally exactly (for example, due to rounding differences). These discrepancies are being accounted for and indicated as "Non-allocable effect" return contribution.

Non-Investment Related Positions

Non-Investment Related Positions refer to non-asset/ non-investment type positions such as those relating to insurance policies or mortgages. Guarantees, standby letters of credit, holdcovers or other credit instruments which have been issued by the Bank pursuant to facilities granted are reflected under the sub-section entitled "Pro Memoria Positions".
Non-Investment Related Positions are displayed in the Scope of Analysis and in the Non-Investment Related Positions section. However, they are not included in any other analyses.

Performance Calculation

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The performance figures are calculated based on investment related positions using the TWR Daily method (Time Weighted Rate of Return), which is based on geometrically linking daily rates of return.

The start of period displayed for the performance calculation is referring to Beginning Market Value, which is the closing balance of the previous day. The end of period displayed is referring to Ending Market Value, which is the closing balance of the day.

The net of fees and gross of taxes return is calculated after deduction of fees and before deduction of taxes.

The cumulative return calculation is reset, every time when geometrically linking the rates of return would render distorted values. Such scenarios can happen when the market values fluctuate around zero.

Return values prior 2015 displayed in this report might be different from previously reported return values.

Profit/ Loss Calculation

Realized and unrealized profit and loss are calculated by comparing the market or transaction value with the average cost value. For every trade date the system computes the average cost, the portfolio's first processing investments before disinvestments. Transaction costs are included in both realized and unrealized profit/loss calculation.

For realized profit and loss for FX Spots, Forwards and Swaps (including all currencies and Precious Metals) in Transactions section, in the 'Execution of FX Purchase' and 'Execution of FX Sales' rows, the value in the realized Profit/Loss column is calculated by comparing the Transaction Valuation based on the end of day exchange rate on the Value Date against the Cost Valuation based on the FX contract rate; this does not mean that the Profit/Loss for that transaction can be or has been cashed out.

Unrealized profit/ loss displayed in the Positions section are calculated as of the reporting date. FX conversion rates used in the computation of the unrealized profit/loss is the derived rate based on the average price as of the individual transaction date.

For unrealized profit and loss for Precious Metal Account and Current Account in Position Section, where there have been FX Spots, Forwards and Swaps transactions (including all currencies and Precious Metals), the Cost Valuation exchange rate is calculated based on the weighted average end of day exchange rate on respective transactions' value date. The value

in the unrealized Profit/ Loss column is calculated by comparing the Current Valuation (based on conversion rates stated in the statement) as of reporting date against Cost Valuation.

Rating

Rating refers to the rating of an investment product and is either based on information available to the Bank or is obtained from sources believed to be reliable by the Bank as of the investment report date.

Return contribution

The contribution figure refers to the contribution of an individual asset category and/or currency to the overall performance on a portfolio level. The figure is calculated based on investment related positions using the TWR Daily method (Time Weighted Rate of Return), the return is computed by aggregating the daily returns.

Reference to the average weight of an instrument is computed by dividing the aggregated daily instrument weight by the number of days in the reporting period. The daily weight of an instrument is calculated by dividing the instrument's start of day market value and cash flow by the portfolio's start of day market value and cash flow.

Yield

The investment report displays Yield for all Fixed Income instruments and is displayed per market price.

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Abbreviations

BID = Bid Price
CLO = Closing Price
NAV = Net Asset Value

Rounding logic

Values in this investment report are calculated with exact numbers, however when presenting the data, values are rounded and therefore minor rounding differences might occur.

Large Numbers

The figures are consolidated and shown in denominations of thousands, millions and billions where applicable. If a value is too long to be displayed in the report itself, e.g. 1,526,555,333.26 the figure is consolidated and displayed as 1,526,555.33 in thousands in the report. If the value exceeds the column limit, a further division will take place and the phrase in millions/in billions will be displayed.

Conversion Rates as of 31.12.2022

AUD 1 = CHF 0.6260
AUD 1 = USD 0.6776
EUR 1 = AUD 1.5707

GBP 1 = AUD 1.7775

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4.2. Legal Information

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For All:
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Bank does not accept liability for any loss arising from the client's use of, or reliance on, such price indications. The price indications of the initial purchase price may be different from the actual purchase price.

The Bank will, at the time of printing this ad-hoc investment report, use the last price indications available to it. Due to the time differences between the Asia Pacific region and markets in other regions, the price indications reflected by the Bank in this ad-hoc investment report will not always reflect the price indications available on the last business day of the reporting period in certain markets.

The Bank may use either an onshore or offshore CNY rate for FX conversion to reporting currency depending on the asset. Please note that there may be a differential between the onshore and offshore rate. Please refer to your Relationship Manager if you need further information on the FX conversion rate applied in relation to your CNY positions.

Please note that financial institutions have transitioned away from certain London Interbank Offered Rates (LIBORs) to alternative reference rates (ARRs) and are preparing to transition away from the remaining USD LIBOR tenors (other than USD LIBOR 1w and 2m) before end of June 2023. This may affect products issued by Credit Suisse or third parties in your portfolio. Please refer to our Credit Suisse IBOR website www.credit-suisse.com/IBOR for more information, or reach out to your Credit Suisse Relationship Manager with any questions you may have.

Please be aware that the financial industry's transition away from LIBOR interest rate benchmarks may have had or may have an impact on valuations of OTC derivative transactions, as the inputs that Credit Suisse uses to calculate valuations may have changed or may change.

If you have any credit facilities in place with the Bank, please note that potentially all of the assets detailed within this ad-hoc investment report may be held as collateral for those facilities. If you have any questions in relation to the collateral for your facility, please contact your Relationship Manager.

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The fee charged for the provision of the Bank's Advisory Service (referring to portfolio(s) ending with -30 to -39) is a Flat Fee notwithstanding that prior to June 2017 the fee may have been described as a Management Fee or All-In Fee in statements or documents received by the client whether by hardcopy, email, Internet Banking or any other form of delivery.
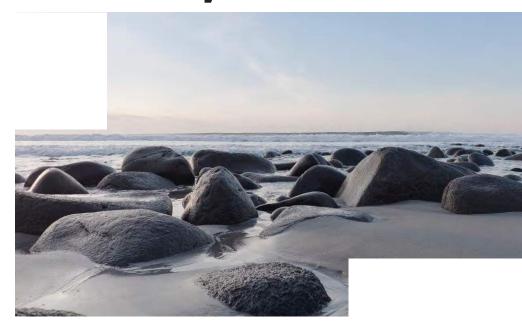
Hong Kong Deposit Protection Scheme (the "DPS"): "Protected deposit" is defined under section 2(1) of the Deposit Protection Scheme Ordinance (Cap. 581 of the Laws of Hong Kong) (the "Ordinance"). Protected deposit does not include those specified in section 1 of Schedule 1 of the Ordinance. In particular, please note that a deposit held or placed in an account with the Bank's Singapore branch is not a protected deposit (as defined in the Ordinance) and consequently is not eligible for the protection under the DPS, notwithstanding that the account holding the deposit is managed by representatives of the Bank's Hong Kong branch. In addition, a deposit held or placed in an account with the Bank's Hong Kong branch where the current term negotiated and agreed exceeds 5 years is not a protected deposit as defined in the Ordinance and consequently is not eligible for protection under the DPS. Certificates of Deposit: Investments in certificates of deposit are not protected deposits as defined in the Ordinance and consequently are not eligible for protection under the DPS.

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APNIC Monthly Commentary

Summary

- The APNIC portfolio was indicatively down 1.79% in December.

Portfolio Manager Overview

Our global Investment Committee (IC) has taken a cautious stance with respect to risk assets, while remaining active in uncovering global opportunities. The tactical positions we have implemented across portfolios seek to take advantage of attractive pricing in some market segments, whilst adding protection to portfolios amid rising recession risk. Portfolios have a tactical underweight to equities, but within equities we have preferred Australia to the Eurozone and emerging market (EM) regions, and among sectors we have an overweight position in health care versus an underweight in property.

Financial market returns in December, for both bonds and equities, partially reversed the positive returns in the first two months of the fourth quarter. Our IC had previously assessed that the basis for the earlier optimism among investors was misplaced, and that what was playing out in October and November was a bear-market rally. To exploit what we considered this premature rebound in equities, and ensure our portfolios maintained a defensive stance, we reduced equity exposure in late November.

A pattern going back to the second quarter of 2022 is visible in the recent volatility in both equities and bond yields; signs of peak inflation and moderation in economic activity have repeatedly sparked short-lived rallies in risk assets. This echoes the post financial crisis era, where bad economic news becomes good news for investors, because it fuels hope of monetary easing. Central to this is the idea of the 'Fed put', where the Federal Reserve is expected to cut policy rates in response to equity market drawdowns. The difference today is that the low inflation that enabled the 'Fed put' has been replaced with overheating in the markets for labour, goods and services, preventing central banks from responding to weak growth, let alone falling risk asset prices. If financial markets needed evidence of this, it came in dramatic fashion at year-end. While the European Central Bank (ECB) surprised markets with very hawkish commentary following its 0.5 percentage point increase in the policy rate to 2%, the Bank of Japan (BOJ) stole the show, as the year drew to a close, by announcing a widening in the target range associated with its Yield Curve Control (YCC) policy. This move may herald the beginning of the end of zero interest rates in Japan, the last stronghold of negative interest rates

globally. With that, the year ended much as it began, with central bank tightening leading risk assets lower.

Market Value as at 31 December 2022

	Market Value
APNIC Portfolio	**A$33,161,320**

Performance as of 31 December 2022

APNIC Portfolio				
	Portfolio	Benchmark	Relative	CPI + 2.5%
Month	-1.79%	-2.13%	+0.34%	0.82%
3 Months	3.44%	3.27%	+0.17%	2.47%
Year To Date	-9.62%	-8.81%	-0.81%	8.64%
1 Year	-9.62%	-8.81%	-0.81%	8.64%
5 Years pa	2.51%	2.93%	-0.41%	5.09%
Since Inception pa	3.79%	4.15%	-0.36%	4.80%

* Performance is after fees but before franking. Inception is September 2013.

Australian Equities

The local equity market delivered resilient performance over 2022, posting a small decline over the year that acted to preserve the strong returns made through the pandemic as an overall outcome. Despite this constructive result macro developments that impacted equity markets negatively also played out strongly in Australia with higher interest rates driving large declines in growth and bond sensitive sectors such as technology, consumer discretionary and real estate. The favourable offset however was strong outperformance from key commodity exposed sectors in energy and mining and significant earnings tailwinds from higher interest rates flowing into major financial sectors including banks and insurers. It was therefore crucial to performance that Australian equity portfolios were well positioned in the large positively performing sectors with comparatively lighter exposure to sectors vulnerable to pressure from rising bond yields.

The upcoming 2023 year is expected to continue similar trends to the previous year with policy rates and bond yields rising albeit more gradually. Many defensive and growth sectors remain vulnerable to further underperformance given valuations remain well out of line with higher bond yields as investors concerned about potential earnings risk pay excessively large premiums for the apparent safety of these exposures.

Our preference is to remain tilted towards attractively valued, high quality mining and energy companies where structural supply and demand dynamics are favourable and cyclical tailwinds are likely to emerge from China's reopening over the year. We are also comfortable with cheap financial exposures

such as the major banks where revenues are strengthening, risk of significant bad debt costs remains low and capital positions are in strong shape.

International Equities

The world market, represented by MSCI World All Counties, was -down 5.4% over the month, in AUD. The broad themes of 2022 - inflation, rising interest rates, the war in Ukraine and fears of recession - continued to dominate investor concerns in December. Over the month, Information Technology declined 9.0% and Consumer Discretionary fell 8.2%. This is a representation and continuation of the developments we have seen throughout 2022, where sectors with a large proportion of Growth companies have de-rated. A case in point is the US tech/growth heavy Nasdaq index that returned -28.7% in 2022, while the Dow Jones index which is more of a representation of the old economy only fell 1.1%. One of the key reasons Growth companies struggled in the year is that higher (real) rates impact the fair value of growth companies significantly more, than low growth companies. Further to that tech/growth companies have also seen larger downwards revisions to their earnings than the rest of the market. Returning to December 2022 returns, the strongest sectors in the month were Utilities, down 1.2% and Real Estate down 1.3%. Once again, a representation of the low growth companies doing relatively better, but also a good segue to briefly touch on the strongest sectors of the past year. Utilities, up 3.2% in 2022, was the second strongest sector in the world market. The sector benefitted from higher energy prices as the marginal natural gas generation typically set the market price for electricity, but a large part of the production mix for the industry is fixed costs, such as nuclear and renewables, hence windfall profits were generated by the sector. However, the biggest beneficiary from higher oil and gas prices was of course the Energy sector, that saw very strong cash flows and shareholder returns. The sector ended up 48.05% for the year and was represented in the regional ETFs and Funds used across the flagship profiles.

Bonds

In 2022, high inflation triggered an unravelling of monetary policy settings across countries with long-held negative interest rates, and in December this process continued to surprise financial markets. Following the ECB's very hawkish guidance, the bond market sharply revised upwards expectations for policy rates to above 3%, to be more in line with our House View. Should this policy rate be achieved, it will be the first time since 2008. The BOJ's change to its YCC policy is a meaningful shift because Japan has long been a source of significant demand for global bonds – including Australian bonds – as a direct result of the prevalence of low and negative yielding interest rates on Japanese Government bonds.

Against this backdrop, global bond yields rose in December, reversing part or all, of the previous month's fall. Australian

bonds underperformed US Treasuries, as Australian ten-year yields rose almost twice as much as US ten-year Treasuries, to reach 4.05% at month-end. At these levels, Australian bonds are starting to look attractive in absolute terms and relative to global bonds, in our assessment.

The riskier spectrum of fixed income sub-asset classes weathered the move higher in government bond yields well. This is because spreads (the differential in yields to the government – or risk-free – curve) acted as a cushion, such that spreads narrowed as government bond yields rose, enabling returns on emerging market bonds and corporate bonds to perform relatively well. Our IC is positive on emerging market corporate bonds, a sector of the universe with good credit metrics and a generous spread buffer. We have a neutral allocation to bonds, but within the asset class we prefer emerging market corporate bonds and AUD corporate bonds.

Alternatives

Within alternative assets, listed real estate struggled over the last 12 months as the rapid rise in interest rates led to a significant 20% decline in the sector. We expect headwinds to continue as the sector is not cheap relative to bond yields and borrowing costs while risks to rental growth are increasing as the economy cyclically softens while uncertainty persists on structural risks in office and retail markets. Our position in Australian real estate remains underweight.

Hedge funds have been able to deliver resilience to portfolio performance with the broad index declining by around 4% at a time when positive correlation between weak global bond and equity markets impacted multi-asset portfolios significantly. Portfolio exposure to the QMA Keynes Systematic Fund (+11.6%) and market neutral Marshall Wace TOPS ESG strategy (+8.6%) were key sources of value add over the quarter and 2022 calendar year.

Outlook

Our Investment Outlook 2023 was recently published, containing the details of our expectations for the global economy and various asset classes for the year ahead. We see the balance of risks as skewed towards a recession in both the US and Australia, but we expect both economies to side-step such a severe downturn. The Eurozone and the UK have likely already entered a recession and China has experienced a slump in growth, and a very bumpy rebound is underway, amid the recent large-scale relaxation of Covid curbs and the attendant reopening in the economy. At any rate, recent growth-oriented policy initiatives from Beijing have removed downside economic tail risks.

For the coming months, we expect financial market volatility to remain elevated and equity markets to remain under downward pressure. This will follow, as weakening growth rates in global nominal GDP and a contraction in global industrial production translate to lower earnings per share (EPS) growth than is currently factored into international equity prices. On the other hand, fixed income markets are looking much more attractive than they have in many years and offer solid income potential. This is balanced by our House View for yields to continue rising, albeit at a more moderate pace. As a result, our IC expects the returns on bonds to be modestly positive over the coming months.

In Australia our House View is for the Reserve Bank of Australia (RBA) to raise the cash rate to a peak of 3.6%, a rate sufficiently restrictive to put downward pressure on consumer demand and engineer an increase in the unemployment rate to more sustainable levels than the current 3.4%. In the interim we expect wage pressures to intensify and house price declines to extend, while the path of consumer spending navigates the headwinds of rising utility prices and higher borrowing costs against the strong tailwind of a healthy surplus of household savings compared to what the pre-GFC trajectory would have suggested, which we estimate to be around A$ 90 billion or about 4% of GDP.

Data Sources

Credit Suisse, unless otherwise specified.

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Investment Report 1.1.2023 – 31.1.2023

APNIC PTY LTD
Portfolio: 3000039-70

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Private Banking

Investment Report 1.1.2023 – 31.1.2023

Portfolio	**3000039-70**
In the Name of	APNIC PTY LTD
Produced on	13.2.2023
Reporting Currency	AUD
Relationship Manager	Patrick Armitage
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AUSTRALIA

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Scope of Analysis
as of 31.1.2023

Components	Portfolio	Asset Value in AUD	Discretionary Mandate	Opened	Closed	Performance Activation	Performance Deactivation
Investment related Positions							
AUD Portfolio	3000039-70	34,189,008	Yes	16.08.2013		31.12.2013	
Total Wealth		**34,189,008**					

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1. Overview
1.1. Asset Allocation

Asset Allocation by Asset Category
Period 1.1.2023 - 31.1.2023

	Beginning Market Value in AUD	Change	Ending Market Value in AUD	Ending Market Value Prop.
Liquidity & Similar Investments	2,308,629	71,382	2,380,011	6.96%
Fixed Income & Similar Investments	17,058,423	287,763	17,346,186	50.74%
Equities & Similar Investments	10,506,649	634,554	11,141,202	32.59%
Alternative Investments, Commodities & Real Estate	3,042,229	11,437	3,053,665	8.93%
Mixed & Other Investments	256,243	11,700	267,943	0.78%
Total Investments	**33,172,172**		**34,189,008**	**100.00%**

Mixed & Other Investments
Alternative Investments, Commodities & Real Estate
Equities & Similar Investments
Liquidity & Similar Investments
Fixed Income & Similar Investments

Investments in %

Asset Allocation by Currency
Period 1.1.2023 - 31.1.2023

	Beginning Market Value in AUD	Change	Ending Market Value in AUD	Ending Market Value Prop.
AUD - Australian Dollar	28,833,621	749,858	29,583,480	86.53%
USD - US Dollar	2,836,136	60,673	2,896,809	8.47%
EUR - Euro	1,382,689	40,421	1,423,110	4.16%
JPY - Japan Yen	0	165,662	165,662	0.48%
CHF - Swiss Franc	119,714	221	119,935	0.35%
GBP - Pound Sterling	12	0	12	
Total Investments	**33,172,172**		**34,189,008**	**100.00%**

CHF
JPY
EUR
USD
AUD

Investments in %

CREDIT SUISSE

1.2.   Income and Activity

Income Summary
Period 1.1.2023 - 31.1.2023

	Current Period in AUD	Year to Date in AUD
Cash Dividend	82,732	82,732
Coupon Received/Paid	2,214	2,214
Interest Earned	3,052	3,052
Interest Paid	0	0
Net Income	**87,997**	**87,997**
Non-Investment Related Income	0	0

Activity Summary
Period 1.1.2023 - 31.1.2023

	Current Period in AUD	Year to Date in AUD
Asset Inflows	0	0
Asset Outflows	0	0
Net Investment Asset Flows	**0**	**0**
Net Non-Investment Flows	0	0

CREDIT SUISSE

1.3. Performance
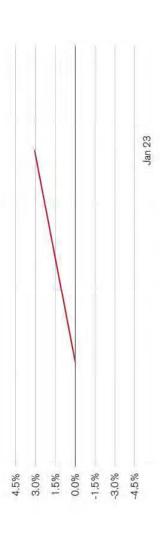
Performance Summary
Period 1.1.2023 – 31.1.2023

	Asset Value in AUD	Asset Value in AUD
Ending Market Value		34,189,008
Beginning Market Value		33,172,172
Asset Flows including		0
Inflows	0	
Outflows	0	
Net Non-Investment Flows	0	
Taxes	0	
Flow Adjusted Value Change		1,016,835
Cumulative Portfolio Return – net		**3.07%**

4.5%	
3.0%	
1.5%	
0.0%	
-1.5%	
-3.0%	
-4.5%	

Jan 23

▬ Cumulative Portfolio Return

CREDIT SUISSE

2. Analyses

2.1. Performance
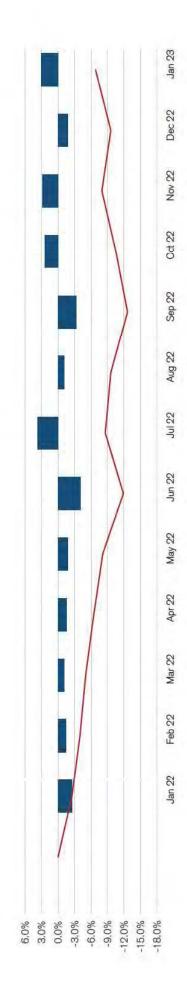
Performance Details
Period 1.1.2022 - 31.1.2023

	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22	Jan 23
Ending Market Value	35,783,036	35,249,681	34,862,649	34,321,691	33,723,858	32,342,078	33,552,391	33,178,607	32,062,231	32,837,433	33,770,984	33,172,172	34,189,008
Beginning Market Value	36,710,697	35,783,036	35,249,681	34,862,649	34,321,691	33,723,858	32,342,078	33,552,391	33,178,607	32,062,231	32,837,433	33,770,984	33,172,172
Asset Flows including	0	0	-4,892	0	0	-4,683	0	0	-4,496	0	0	-4,475	0
Inflows	0	0	0	0	0	0	0	0	0	0	0	0	0
Outflows	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Non-Investment Flows	0	0	0	0	0	0	0	0	0	0	0	0	0
Taxes	0	0	-4,892	0	0	-4,683	0	0	-4,496	0	0	-4,475	0
Flow Adjusted Value Change	-927,660	-533,356	-382,140	-540,958	-597,833	-1,377,097	1,210,313	-373,784	-1,111,880	775,202	933,551	-594,337	1,016,835
■ Portfolio Return – net	-2.53%	-1.49%	-1.08%	-1.55%	-1.74%	-4.08%	3.74%	-1.11%	-3.35%	2.42%	2.84%	-1.76%	3.07%
— Cumulative Portfolio Return	-2.53%	-3.98%	-5.02%	-6.49%	-8.12%	-11.88%	-8.58%	-9.60%	-12.63%	-10.51%	-7.97%	-9.59%	-6.82%

	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22	Jan 23

6.0%
3.0%
0.0%
-3.0%
-6.0%
-9.0%
-12.0%
-15.0%
-18.0%

CREDIT SUISSE

2.2. Contribution Analysis

Multi-Period Contribution by Asset Category in %
as of 31.1.2023

	Month To Date	Quarter To Date	Year To Date	1 Year	Current Period
Liquidity & Similar Investments	-0.01	-0.01	-0.01	-0.55	-0.01
Fixed Income & Similar Investments	1.56	1.56	1.56	-3.83	1.56
Equities & Similar Investments	1.45	1.45	1.45	0.44	1.45
Alternative Investments, Commodities & Real Estate	0.03	0.03	0.03	-0.31	0.03
Mixed & Other Investments	0.04	0.04	0.04	-0.15	0.04
Total – net ***	**3.07**	**3.07**	**3.07**	**-4.40**	**3.07**

Multi-Period Contribution by Currency in %
as of 31.1.2023

	Month To Date	Quarter To Date	Year To Date	1 Year	Current Period
AUD - Australian Dollar	2.78	2.78	2.78	-2.99	2.78
USD - US Dollar	0.18	0.18	0.18	-0.78	0.18
EUR - Euro	0.12	0.12	0.12	-0.49	0.12
JPY - Japan Yen	-0.02	-0.02	-0.02	-0.15	-0.02
CHF - Swiss Franc	-	-	-	0.02	-
Total – net ***	**3.07**	**3.07**	**3.07**	**-4.40**	**3.07**

*** If applicable, fees charged in the relevant currency will be deducted from the cash account contribution, which is part of the Liquidity & Similar Investments asset category.

CREDIT SUISSE

2.3. Contribution - Top Contributors & Detractors

Top Contributors in %
as of 31.1.2023

	Total Return	Average Weight	Contribution
UNITS WESTERN ASSET AUSTRALIAN BOND FUND CLASS -A-	3.25	18.70	0.61
UNITS PERPETUAL ACTIVE FIXED INTEREST FUND	3.29	12.62	0.42
UNITS SPDR S&P/ASX 200 LISTED PROPERTY FUND	7.70	3.04	0.23
UNITS SPDR S&P/ASX 200 FUND ETF AUSTRALIAN EQUITY EXCHANGE TRADED FUNDS	7.15	3.11	0.22
REGISTERED SHS BHP GROUP LTD	8.22	1.83	0.15
Total – net ***		**39.30**	**1.61**

Top Detractors in %
as of 31.1.2023
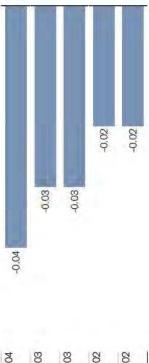
	Total Return	Average Weight	Contribution
ACCUM SHS -I- HEDGED AUD PGIM FUNDS PLC – PGIM WADHWANI KEYNES SYSTEMATIC ABSOLUTE RETURN FUND	-1.86	2.30	-0.04
REGISTERED SHS COMPUTERSHARE LTD	-9.35	0.34	-0.03
SHS ISHARES GLOBAL HEALTHCARE ETF	-4.17	0.72	-0.03
REGISTERED SHS AUSTRALIA & NEW ZEALAND BANKING GROUP LTD ISSUE 22/ENTITLE TO SHARE ANZ GRP	-2.75	0.07	-0.02
Current Account -20300003970335	-3.76	0.19	-0.02
Total – net ***		**3.62**	**-0.15**

*** If applicable, fees charged in the relevant currency will be deducted from the cash account contribution, which is part of the Liquidity & Similar Investments asset category.

CREDIT SUISSE

3. Positions

3.1. Investment Related Positions
as of 31.1.2023

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
Liquidity & Similar Investments							
Accounts							
AUD	1,908,122.16	Current Account -20300003970945	1.0000		1,908,122		
					5.58%		
EUR	-155,727.65	Current Account -20300003970056	1.0000 1.5414 EUR/AUD		-240,039		
					-0.70%		
GBP	6.99	Current Account -20300003970089	1.0000 1.8602 GBP/AUD		12	-1	-5.62%
						-1	-5.62%
JPY	15,174,431	Current Account -20300003970335	1.0000 88.1583 AUD/JPY		165,662	-6,465	-3.76%
					0.49%	-6,465	-3.76%
USD	170,125.62	Current Account -20300003970780	1.0000 0.7029 AUD/USD		241,922	-99	-0.04%
					0.71%	-99	-0.04%
Total Accounts					2,075,680		
					0		
					6.07 %		

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price/ Type / Date	Value in AUD of which Accrued Interest / Proportion in %	Profit/ Loss Unrealized in AUD / of which Instrument / of which Forex	P/L Unreal. in % / Instr. in % / FX in %
Money Market Funds							
AUD 290,392.466	UNITS UBS CASH FUND	AU60SBC08113 1567633	1.0463	1.0480 NAV 31.01.2023	304,331 0.89%	486 486	0.16% 0.16%
Total Money Market Funds					304,331 0 0.89%		
Total Liquidity & Similar Investments					**2,380,011** 0 **6.96 %**		
Fixed Income & Similar Investments Fixed Income & Similar Investments AUD							
AUD 533,000	5.5 % NOTES COMMONWEALTH OF AUSTRALIA 2011-21.4.23 SERIES TB133 Duration: 0.2162 / Rating: Moody's Aaa	AU3TB0000101 13063134	101.3966%	100.4660% BID 31.01.2023	543,698 8,215 1.59%	-4,960 -4,960	-0.92% -0.92%
AUD 866,342.7	UNITS -D- ISHARES AUSTRALIAN BOND INDEX FUND	AU60BGL01056 2244170	1.0394	0.9298 NAV 31.01.2023	805,556 2.36%	-94,906 -94,906	-10.54% -10.54%
AUD 4,590,268.734100 437.016	UNITS PERPETUAL ACTIVE FIXED INTEREST FUND of which is pending settlement	AU60PER02627 35661784	1.0474	0.9380 NAV 31.01.2023	4,305,612 12.59%	-502,370 -502,370	-10.45% -10.45%
AUD 5,551,703.4941	UNITS WESTERN ASSET AUSTRALIAN BOND FUND CLASS -A-	AU60SB01221 2248336	1.2575	1.1489 NAV 31.01.2023	6,378,297 18.66%	-602,795 -602,795	-8.64% -8.64%
AUD 49,678	SHS -I- AUD NEUBERGER BERMAN INVESTMENT FUNDS PLC - NEUBERGER BERMAN EMERGING MARKET DEBT - HARD CURRENCY FUND	IE00B986FB81 53616359	10.6287	8.0700 NAV 31.01.2023	400,901 1.17%	-127,111 -127,111	-24.07% -24.07%

3. Positions / 3.1. Investment Related Positions

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 380,221	SHS -L3- HEDGED AUD FEDERATED HERMES INVESTMENT FUNDS PLC – FEDERATED HERMES GLOBAL HIGH YIELD CREDIT FUND	IE00BMZ15N91 57259812	3.0352	2.7544 NAV 31.01.2023	1,047,281 3.06%	-106,781 -106,781	-9.25% -9.25%
AUD 9,599	UNITS SHS HEDGED AUD MUZINICH FUNDS - MUZINICH EMERGING MARKET CORPORATE DEBT FUND	IE00BNC55647 110844223	97.4683	80.0400 NAV 31.01.2023	768,304 2.25%	-167,294 -167,294	-17.88% -17.88%
AUD 11,116	SHS -CH- ROBECO CAPITAL GROWTH FUNDS SCAV - ROBECOSAM GLOBAL SDG CREDITS DISTRIBUTION	LU2207422291 56320962	99.0605	82.7400 NAV 31.01.2023	919,738 2.69%	-181,419 -181,419	-16.48% -16.48%
AUD 9,119	SHS -EAH- CS INVESTMENT FUNDS 1 SICAV - CREDIT SUISSE (LUX) GLOBAL INFLATION LINKED BOND FUND DISTRIBUTION	LU2407926216 114771252	100.0000	94.9000 NAV 31.01.2023	865,393 2.53%	-46,507 -46,507	-5.10% -5.10%
AUD 25,916	SHS -IX- NINETY ONE GLOBAL STRATEGY FUND SICAV - EMERGING MARKETS LOCAL CURRENCY TOTAL RETURN DEBT FUND DISTRIBUTION	LU2445645851 117293159	19.9500	19.9800 NAV 31.01.2023	517,802 1.52%	777 777	0.15% 0.15%
AUD 8,374	SHS -S- AUD (QIDIV)- BLUEBAY FUNDS SICAV - BLUEBAY GLOBAL INVESTMENT GRADE CORPORATE BOND FUND DISTRIBUTION	LU2457787914 118776845	100.0000	94.7700 NAV 31.01.2023	793,604 2.32%	-43,796 -43,796	-5.23% -5.23%
Total Fixed Income & Similar Investments					17,346,186 8,215 50.74%		

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
Equities & Similar Investments							
Equities & Similar Investments AUD							
AUD 9,951	REGISTERED SHS ANZ GROUP HOLDINGS LIMITED	AU000000ANZ3 122827935 ANZ.AX	26.3956	25.0900 CLO 31.01.2023	249,671 0.73%	-12,992 -12,992	-4.95% -4.95%
AUD 39,898	REGISTERED SHS ALUMINA LTD	AU000000AWC3 1526402 AWC.AX	1.8361	1.5650 CLO 31.01.2023	62,440 0.18%	-10,816 -10,816	-14.76% -14.76%
AUD 34,858	REGISTERED SHS AURIZON HOLDINGS LTD	AU000000AZJ1 20175896 AZJ.AX	4.5903	3.6900 CLO 31.01.2023	128,626 0.38%	-31,382 -31,382	-19.61% -19.61%
AUD 12,758	REGISTERED SHS BHP GROUP LTD	AU000000BHP4 640390 BHP.AX	32.9558	49.3800 CLO 31.01.2023	629,990 1.84%	209,540 209,540	49.84% 49.84%
AUD 3,471	REGISTERED SHS CARSALES.COM LTD	AU000000CAR3 10476764 CAR.AX	16.7162	22.6900 CLO 31.01.2023	78,757 0.23%	20,735 20,735	35.74% 35.74%
AUD 2,870	REGISTERED SHS COMMONWEALTH BANK OF AUSTRALIA	AU000000CBA7 646758 CBA.AX	81.5356	110.0600 CLO 31.01.2023	315,872 0.92%	81,865 81,865	34.98% 34.98%
AUD 4,671	REGISTERED SHS COMPUTERSHARE LTD	AU000000CPU5 241285 CPU.AX	16.0032	23.7500 CLO 31.01.2023	110,936 0.32%	36,186 36,186	48.41% 48.41%

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price / Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit / Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 998	REGISTERED SHS CSL LTD	AU000000CSL8 241548 CSL.AX	178.5819	298.0800 CLO 31.01.2023	297,484 0.87%	119,259 119,259	66.92% 66.92%
AUD 3,055	REGISTERED SHS FLIGHT CENTRE TRAVEL GROUP LTD	AU000000FLT9 90307 FLT.AX	18.6876	17.0000 BID 31.01.2023	51,935 0.15%	-5,155 -5,155	-9.03% -9.03%
AUD 255	REGISTERED SHS MACQUARIE GROUP LTD	AU000000MQG1 3422370 MQG.AX	85.9818	187.3400 CLO 31.01.2023	47,772 0.14%	25,846 25,846	117.88% 117.88%
AUD 8,982	REGISTERED SHS NATIONAL AUSTRALIA BANK LTD	AU000000NAB4 641643 NAB.AX	24.5148	31.7900 CLO 31.01.2023	285,538 0.84%	65,346 65,346	29.68% 29.68%
AUD 4,479	REGISTERED SHS NEWCREST MINING LTD	AU000000NCM7 650853 NCM.AX	27.6429	22.3100 CLO 31.01.2023	99,926 0.29%	-23,886 -23,886	-19.29% -19.29%
AUD 27,933	REGISTERED SHS NINE ENTERTAINMENT CO. HOLDINGS LTD	AU000000NEC4 22858707 NEC.AX	2.7241	2.0300 CLO 31.01.2023	56,704 0.17%	-19,389 -19,389	-25.48% -25.48%
AUD 9,661	REGISTERED SHS ORIGIN ENERGY LTD	AU000000ORG5 1051439 ORG.AX	7.5195	7.4700 CLO 31.01.2023	72,168 0.21%	-478 -478	-0.66% -0.66%
AUD 10,278	REGISTERED SHS QANTAS AIRWAYS LTD	AU000000QAN2 390413 QAN.AX	5.6657	6.3400 CLO 31.01.2023	65,163 0.19%	6,931 6,931	11.90% 11.90%

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Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 8,445	REGISTERED SHS QBE INSURANCE GROUP LTD	AU000000QBE9 641857 QBE.AX	11.6722	13.7400 CLO 31.01.2023	116,034 0.34%	17,463 17,463	17.72% 17.72%
AUD 1,775	REGISTERED SHS RIO TINTO LTD	AU000000RIO1 603520 RIO.AX	79.2646	126.6400 CLO 31.01.2023	224,786 0.66%	84,091 84,091	59.77% 59.77%
AUD 3,001	SHS RESMED INC CHESS DEPOSITORY INTERESTS REPR 1/10 SH	AU000000RMD6 1058638 RMD.AX	25.7058	32.1000 CLO 31.01.2023	96,332 0.28%	19,189 19,189	24.88% 24.88%
AUD 24,579	REGISTERED SHS SOUTH32 LTD	AU000000S320 27547963 S32.AX	2.9484	4.5400 CLO 31.01.2023	111,589 0.33%	39,120 39,120	53.98% 53.98%
AUD 92,105	UNITS SPDR S&P/ASX 200 LISTED PROPERTY FUND	AU000000SLF1 1377855 SLF.AX	12.3315	11.6100 CLO 31.01.2023	1,069,339 3.13%	-66,449 -66,449	-5.85% -5.85%
AUD 9,161	REGISTERED SHS SANTOS LTD	AU000000STO6 641959 STO.AX	7.3276	7.1100 CLO 31.01.2023	65,135 0.19%	-1,993 -1,993	-2.97% -2.97%
AUD 15,976	UNITS SPDR S&P/ASX 200 FUND ETF AUSTRALIAN EQUITY EXCHANGE TRADED FUNDS	AU000000STW9 1285707 STW.AX	66.1214	67.4600 CLO 31.01.2023	1,077,741 3.15%	21,385 21,385	2.02% 2.02%
AUD 14,246	REGISTERED SHS TELSTRA GROUP LIMITED	AU000000TLS2 122480384 TLS.AX	4.5550	4.0800 CLO 31.01.2023	58,124 0.17%	-6,767 -6,767	-10.43% -10.43%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price/ Type / Date	Value in AUD of which Accrued Interest / Proportion in %	Profit/ Loss Unrealized in AUD / of which Instrument / of which Forex	P/L Unreal. in % / Instr. in % / FX in %
AUD 3,230	SHS VANGUARD MSCI AUSTRALIAN SMALL COMPANIES INDEX ETF EXCHANGE TRADED FUND	AU000000VSO2 / 13053435 / VSO.AX	60.3498	64.6300 CLO / 31.01.2023	208,755 / 0.61%	13,825 / 13,825	7.09% / 7.09%
AUD 11,015	REGISTERED SHS WESTPAC BANKING CORP	AU000000WBC1 / 642372 / WBC.AX	26.6178	23.7200 CLO / 31.01.2023	261,276 / 0.76%	-31,919 / -31,919	-10.89% / -10.89%
AUD 1,031	REGISTERED SHS WESFARMERS LTD	AU000000WES1 / 642397 / WES.AX	34.0342	49.6500 CLO / 31.01.2023	51,189 / 0.15%	16,100 / 16,100	45.88% / 45.88%
AUD 4,279	REGISTERED SHS WORLEY LTD	AU000000WOR2 / 1524357 / WOR.AX	12.6649	15.4500 CLO / 31.01.2023	66,111 / 0.19%	11,917 / 11,917	21.99% / 21.99%
AUD 2,499	REGISTERED SHS WOOLWORTHS GROUP LTD	AU000000WOW2 / 81350 / WOW.AX	34.1257	36.0800 CLO / 31.01.2023	90,164 / 0.26%	4,884 / 4,884	5.73% / 5.73%
AUD 7,762	REGISTERED SHS COLES GROUP LTD	AU0000030678 / 44059594 / COL.AX	16.9597	17.7600 CLO / 31.01.2023	137,853 / 0.40%	6,212 / 6,212	4.72% / 4.72%
AUD 2,590	UNITS VANGUARD ETHICALLY CONSCIOUS AUST ETF EXCHANGE TRADED FUND	AU0000103533 / 57145371 / VETH.AX	58.0530	57.3600 CLO / 31.01.2023	148,562 / 0.44%	-1,795 / -1,795	-1.19% / -1.19%
AUD 6,677	REGISTERED SHS WOODSIDE ENERGY GROUP LTD	AU0000224040 / 119209424 / WDS.AX	25.7078	36.2600 CLO / 31.01.2023	242,108 / 0.71%	70,457 / 70,457	41.05% / 41.05%

CREDIT SUISSE

Number/Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 45,147.8135	UNITS EIGER AUSTRALIAN SMALL COMPANIES FUND	AU60HOW29675 1128471137	1.7805	1.4754 NAV 31.01.2023	66,611 0.20%	-13,773 -13,773	-17.13% -17.13%
AUD 47,433.4328	UNITS PERENNIAL BETTER FUTURE TRUST	AU60WPC56007 112127492	1.3598	1.2342 NAV 31.01.2023	58,542 0.17%	-5,959 -5,959	-9.24% -9.24%
Total Equities & Similar Investments AUD					6,703,232 0 19.61%		
Equities & Similar Investments CHF							
CHF 5,705	SHS -S- STATE STREET GLOBAL ADVISORS LUXEMBOURG SICAV - STATE STREET SWITZERLAND INDEX EQUITY FUND CAPITALISATION	LU1652661379 37905740	12.4295 0.6263 AUD/CHF	13.6800 NAV 31.01.2023	119,935 0.35%	6,707 10,963 -4,256	5.92% 10.06% -4.14%
Total Equities & Similar Investments CHF					119,935 0 0.35%		
Equities & Similar Investments EUR							
EUR 5,525 5,525	SHS EUR ISHARES II PLC - ISHARES CORE MSCI EUROPE UCITS ETF of which is pending settlement	IE00B1YZSC51 3246398 IQQY.DE	28.1860 1.5414 EUR/AUD	28.2450 CLO 31.01.2023	240,541 0.70%	502 502	0.21% 0.21%
EUR 3,614	ACCUM.PTG.SHS WELLINGTON MANAGEMENT FUNDS (IRELAND) PLC - WELLINGTON STRATEGIC EUROPEAN EQUITY FUND CLASS -N- UNHEDGED EUR	IE00B9DPD161 20938626	15.8682 1.5372 EUR/AUD	23.7688 NAV 31.01.2023	132,407 0.39%	44,254 44,011 243	50.20% 49.79% 0.41%
EUR 25,880	ACCUM SHS -1C- USD XTRACKERS(IE)PLC - XTRACKERS MSCI WORLD ESG UCITS ETF	IE00BZ02LR44 41359963 XZW0.DE	27.7044 1.5414 EUR/AUD	28.0620 CLO 31.01.2023	1,119,433 3.27%	14,231 14,264 -33	1.29% 1.29%

3. Positions / 3.1. Investment Related Positions

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
EUR 707	SHS -TFC- DWS INVEST SICAV - DWS INVEST ESG EQUITY INCOME CAPITALISATION	LU1747711031 40320173	155.8400 1.4921 EUR/AUD	156.7000 NAV 31.01.2023	170,767 0.50%	6,371 937 5,433	3.88% 0.55% 3.32%
Total Equities & Similar Investments EUR					1,663,148 0 4.87%		
Equities & Similar Investments USD							
USD 8,712	ACCUM SHS -1C- USD XTRACKERS (IE) PLC - XTRACKERS MSCI USA UCITS ETF	IE00BJ0KDR00 24268896 XD9U.L	105.7350 0.7245 AUD/USD	114.6400 CLO 31.01.2023	1,420,233 4.15%	148,730 110,321 38,408	11.70% 8.42% 3.28%
USD 23,707	ACCUM SHS USD ISHARES IV PLC - ISHARES MSCI CHINA UCITS ETF	IE00BJ5JPG56 47256616 ICHN.S	4.9792 0.7010 AUD/USD	5.0120 CLO 31.01.2023	168,964 0.49%	579 1,106 -527	0.34% 0.66% -0.32%
USD 11,551	SHS -R (ACC.)- GOLDMAN SACHS FUNDS SICAV - GOLDMAN SACHS EMERGING MARKETS EQUITY PORTFOLIO CAPITALISATION	LU0830622741 19578737	16.3327 0.7203 AUD/USD	14.9900 NAV 31.01.2023	246,222 0.72%	-15,696 -22,055 6,359	-5.99% -8.22% 2.23%
USD 1,985	SHS ISHARES GLOBAL HEALTHCARE ETF	US4642873255 1352444 IXJ.P	86.8369 0.7294 AUD/USD	84.4200 CLO 31.01.2023	238,293 0.70%	1,986 -6,822 8,808	0.84% -2.78% 3.62%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN / Valoren Number / Ticker	Cost Valuation Price / Exchange Rate	Current Valuation Price/ Type / Date	Value in AUD of which Accrued Interest / Proportion in %	Profit/ Loss Unrealized in AUD / of which Instrument / of which Forex	P/L Unreal. in % / Instr. in % / FX in %
USD 12,381	SHS ISHARES ESG AWARE MSCI EM ETF	US46434G8630 / 33080862 / ESGE.OQ	39.5584 / 0.7305 AUD/USD	33.0100 CLO / 31.01.2023	581,175 / 1.70%	-89,305 / -115,291 / 25,987	-13.32% / -16.55% / 3.23%
Total Equities & Similar Investments USD					2,654,887 / 0 / 7.77%		
Total Equities & Similar Investments					**11,141,202 / 0 / 32.59%**		

Alternative Investments, Commodities & Real Estate
Hedge Funds:

Number/ Nominal	Description	Identification	Cost Valuation	Current Valuation	Value in AUD	Profit/ Loss	P/L
AUD 175,313	UNITS PARTNERS GROUP GLOBAL VALUE FUND (AUD) WHOLESALE	AU60ETL02762 / 26607292	2.1653	3.2635 NAV / 31.12.2022	572,134 / 1.67%	192,537 / 192,537	50.72% / 50.72%
AUD 6,256	ACCUM SHS -I- HEDGED AUD PGIM FUNDS PLC - PGIM WADHWANI KEYNES SYSTEMATIC ABSOLUTE RETURN FUND	IE00BKV41X02 / 54282717	106.6534	122.9620 NAV / 31.01.2023	769,250 / 2.25%	102,027 / 102,027	15.29% / 15.29%
AUD 1,941	SHS -D2 HEDGED- BLACKROCK STRATEGIC FUNDS SICAV - BLACKROCK EMERGING COMPANIES ABSOLUTE RETURN FUND CAPITALISATION	LU2402058403 / 114466865	98.2200	79.6900 NAV / 31.01.2023	154,678 / 0.45%	-35,967 / -35,967	-18.87% / -18.87%
AUD 5,005.487	SHS -B- LUMYNA-MARSHALL WACE UCITS SICAV - LUMYNA - MW ESG (MARKET NEUTRAL) TOPS UCITS FUND CAPITALISATION	LU2430035803 / 117027980	106.4772	107.3013 NAV / 31.01.2023	537,095 / 1.57%	4,125 / 4,125	0.77% / 0.77%

CREDIT SUISSE

Number/ Nominal	Description	Identification ISIN Valoren Number Ticker	Cost Valuation Price Exchange Rate	Current Valuation Price/ Type Date	Value in AUD of which Accrued Interest Proportion in %	Profit/ Loss Unrealized in AUD of which Instrument of which Forex	P/L Unreal. in % Instr. in % FX in %
AUD 9,409	UNITS -D- BCV FUND (LUX) FCP - BCV LIQUID ALTERNATIVE BETA CAPITALISATION	LU2487461068 119435425	99.9613	103.4200 NAV 31.01.2023	973,079 2.85%	32,543 32,543	3.46% 3.46%
Total Hedge Funds					3,006,237 0 8.79%		
Real Estate							
AUD 2,375	STAPLED SECURITY GOODMAN GROUP	AU000000GMG2 18079202 GMG.AX	11.0006	19.9700 CLO 31.01.2023	47,429 0.14%	21,302 21,302	81.54% 81.54%
Total Real Estate					47,429 0 0.14%		
Total Alternative Investments, Commodities & Real Estate					3,053,665 0 8.93%		
Mixed & Other Investments							
AUD 241,312.01	UNITS BLACKROCK GLOBAL ALLOCATION FUND (AUST) CLASS-D- WHOLESALE	AU60MAL00181 3379478	1.2351	1.1104 NAV 31.01.2023	267,943 0.78%	-30,109 -30,109	-10.10% -10.10%
Total Mixed & Other Investments					267,943 0 0.78%		
Total Investments					34,189,008 100.00%		
of which Accrued Interest					8,215		

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4. Appendix

4.1. Explanations

Accrued Interest

Accrued interest is not displayed for financial instruments with variable interest rate or frequency within the same interest period, except for Floating Rate Notes. For FINER Revexus, the accrued interest displayed is based on the deposit currency for reference purpose only. Entitlement to the accrued interest depends on the product features. All accrued interests are displayed in the reporting currency of the portfolio and are calculated recognizing trades end of day. The FX conversion rates (reflected below) are used to convert the amount from original currency to reporting currency. The accrued interest payable/receivable is displayed as the net amount on Current Account balances. As a result of the foregoing and other factors, the accrued interest is only an estimate and may not reflect the actual interest accrued, if any.

Activity Summary

The asset inflows and outflows include client-instructed transactions, which are aggregated as Net Investment Asset Flows. Non-Investment Flows refer to transactions related to Non-Investment Related Positions such as loan transactions to finance such Non-Investment Related Positions. Non-investment Flows do not contribute to the performance of the account. Such asset inflows and outflows do not include fees and taxes.

Analyses

Values displayed for the respective month labels are as of month-end dates. If the report end period is not a month-end, the report period end month label will show the values as of the report period end date.

Asset Classification

If an instrument is classified as 'not classifiable', the instrument is pending its proper classification. As soon this is available in the system, the instrument will reflect the correct classification.

Cost Valuation Exchange Rates

For the Positions section, the cost valuation exchange rate displayed is always the instrument currency against the portfolio currency.
For the Transactions section, the cost valuation exchange rate displayed is always between the instrument currency and reporting currency. For execution of FX purchase/sale transactions, the transaction valuation is based on the end of day exchange rate on the value date and the cost valuation is based on the FX contract rate.

Duration

Modified duration is a change in the price of a bond arising from a change in market yields. Modified duration is expressed as an approximate percentage. The investment report displays the Modified Duration method for all Fixed Income instruments.

Fees / Taxes

Fees include management or safekeeping fees.
Taxes include value-added taxes and service related taxes, depending on country specific rules.

Income Summary

Coupon received and coupon paid, as well as interest earned and interest paid, does not include accrued or unpaid coupon or interest.
Year to date figures include the addition of the monthly figures inclusive of any backdated income processing/ adjustments.
Figures shown can be gross or net depending on the specific country and market practice.
Non-Investment related Income is included in the Income Summary.

Market Value

The values stated as begin of period are asset values as of the last reported statement period.
The values stated as beginning/ ending market values are asset values that are inclusive of most updated market prices and backdated transactions.

Non-allocable Effect

As a general rule, in most cases the sum of all the return contributions usually equal the portfolio return figure indicated. In some cases, however, the two figures may not tally exactly (for example, due to rounding differences). These discrepancies are being accounted for and indicated as "Non-allocable effect" return contribution.

Non-Investment Related Positions

Non-Investment Related Positions refer to non-asset/ non-investment type positions such as those relating to insurance polices or mortgages. Guarantees, standby letters of credit, holdcovers or other credit instruments which have been issued by the Bank pursuant to facilities granted are reflected under the sub-section entitled "Pro Memoria Positions".
Non-Investment Related Positions are displayed in the Scope of Analysis and in the Non-Investment Related Positions section. However, they are not included in any other analyses.

Performance Calculation

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The performance figures are calculated based on investment related positions using the TWR Daily method (Time Weighted Rate of Return), which is based on geometrically linking daily rates of return.

The start of period displayed for the performance calculation is referring to Beginning Market Value, which is the closing balance of the previous day. The end of period displayed is referring to Ending Market Value, which is the closing balance of the day.

The net of fees and gross of taxes return is calculated after deduction of fees and before deduction of taxes.

The cumulative return calculation is reset, every time when geometrically linking the rates of return would render distorted values. Such scenarios can happen when the market values fluctuate around zero.

Return values prior 2015 displayed in this report might be different from previously reported return values.

Profit/ Loss Calculation

Realized and unrealized profit and loss are calculated by comparing the market or transaction value with the average cost value. For every trade date the system computes the average cost, the portfolio's first processing investments before disinvestments. Transaction costs are included in both realized and unrealized profit/loss calculation.

For realized profit and loss for FX Spots, Forwards and Swaps (including all currencies and Precious Metals) in Transactions section, in the 'Execution of FX Purchase' and 'Execution of FX Sales' rows, the value in the realized Profit/Loss column is calculated by comparing the Transaction Valuation based on the end of day exchange rate on the Value Date against the Cost Valuation based on the FX contract rate; this does not mean that the Profit/Loss for that transaction can be or has been cashed out.

Unrealized profit/ loss displayed in the Positions section are calculated as of the reporting date. FX conversion rates used in the computation of the unrealized profit/loss is the derived rate based on the average price as of the individual transaction date.

For unrealized profit and loss for Precious Metal Account and Current Account in Position Section, where there have been FX Spots, Forwards and Swaps transactions (including all currencies and Precious Metals), the Cost Valuation exchange rate is calculated based on the weighted average end of day exchange rate on respective transactions' value date. The value

in the unrealized Profit/Loss column is calculated by comparing the Current Valuation (based on conversion rates stated in the statement) as of reporting date against Cost Valuation.

Rating

Rating refers to the rating of an investment product and is either based on information available to the Bank or is obtained from sources believed to be reliable by the Bank as of the investment report date.

Return contribution

The contribution figure refers to the contribution of an individual asset category and/or currency to the overall performance on a portfolio level. The figure is calculated based on investment related positions using the TWR Daily method (Time Weighted Rate of Return), the return is computed by aggregating the daily returns.

Reference to the average weight of an instrument is computed by dividing the aggregated daily instrument weight by the number of days in the reporting period. The daily weight of an instrument is calculated by dividing the instrument's start of day market value and cash flow by the portfolio's start of day market value and cash flow.

Yield

The investment report displays Yield for all Fixed Income instruments and is displayed per market price.

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Abbreviations

BID = Bid Price
CLO = Closing Price
NAV = Net Asset Value

Rounding logic

Values in this investment report are calculated with exact numbers, however when presenting the data, values are rounded and therefore minor rounding differences might occur.

Large Numbers

The figures are consolidated and shown in denominations of thousands, millions and billions where applicable. If a value is too long to be displayed in the report itself, e.g. 1,526,555,333.26 the figure is consolidated and displayed as 1,526,555.33 in thousands in the report. If the value exceeds the column limit, a further division will take place and the phrase in millions/in billions will be displayed.

Conversion Rates as of 31.1.2023

AUD 1 = CHF 0.6507
AUD 1 = JPY 91.5986
AUD 1 = USD 0.7032

EUR 1 = AUD 1.5414
GBP 1 = AUD 1.7557

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4.2. Legal Information

This ad-hoc investment report is a statement of account provided to you upon your request and in accordance with and subject to the Account Opening Terms and Conditions.

For accounts booked with Credit Suisse AG, Hong Kong Branch: This ad-hoc investment report has been generated specifically for you as additional information for reference only and is not to be treated as the monthly statement of account under section 11(2) of the Securities and Futures (Contract Notes, Statements of Account and Receipts) Rules which we provide to you on a regular basis. This ad-hoc investment report shall be conclusive and binding if the Bank does not receive your objection in writing to any matters contained in this ad-hoc investment report within 90 days from the issue date.

For accounts booked with Credit Suisse AG, Singapore Branch: This ad-hoc investment report shall be conclusive and binding if the Bank does not receive your objection in writing to any matters contained in this ad-hoc investment report within 14 days from the issue date. Assets detailed within this ad-hoc investment report will not be directly custodised by Credit Suisse AG, Singapore Branch but with third party custodians in accounts for and on behalf of Credit Suisse AG, Singapore Branch, unless otherwise informed by the Bank.

For All:
Please refer to the Important Notice on Sales Disclosure to Investors for sales related information including information on monetary benefits received by the Bank where it distributes an investment product to you.

The prices reflected for instruments and other information detailed within this ad-hoc investment report are attained or derived by the Bank from market data sources believed to be reliable, however the Bank does not make any representation as to the accuracy or completeness of such prices or information. In the absence of reliable market reference prices, the Bank may assign a nominal value or make an appropriate comment on the ad-hoc investment report. As a result, this ad-hoc investment report may contain price indications or comments as the Bank sees appropriate in the prevailing circumstances. If you have any queries in this respect, please contact your Relationship Manager.

The Bank provides price indications for financial derivatives transactions, structured products and non-listed financial instruments based upon available market reference prices believed to be reliable. The Bank does not make any representation as to the accuracy or completeness of price indications for transactions nor the guarantee to buy/sell at the price indicated. The

Bank does not accept liability for any loss arising from the client's use of, or reliance on, such price indications. The price indications of the initial purchase price may be different from the actual purchase price.

The Bank will, at the time of printing this ad-hoc investment report, use the last price indications available to it. Due to the time differences between the Asia Pacific region and markets in other regions, the price indications reflected by the Bank in this ad-hoc investment report will not always reflect the price indications available on the last business day of the reporting period in certain markets.

The Bank may use either an onshore or offshore CNY rate for FX conversion to reporting currency depending on the asset. Please note that there may be a differential between the onshore and offshore rate. Please refer to your Relationship Manager if you need further information on the FX conversion rate applied in relation to your CNY positions.

Please note that financial institutions have transitioned away from certain London Interbank Offered Rates (LIBORs) to alternative reference rates (ARRs) and are preparing to transition away from the remaining USD LIBOR tenors (other than USD LIBOR 1w and 2m) before end of June 2023. This may affect products issued by Credit Suisse or third parties in your portfolio. Please refer to our Credit Suisse IBOR website www.credit-suisse.com/IBOR for more information, or reach out to your Credit Suisse Relationship Manager with any questions you may have.

Please be aware that the financial industry's transition away from LIBOR interest rate benchmarks may have had or may have an impact on valuations of OTC derivative transactions, as the inputs that Credit Suisse uses to calculate valuations may have changed or may change.

If you have any credit facilities in place with the Bank, please note that potentially all of the assets detailed within this ad-hoc investment report may be held as collateral for those facilities. If you have any questions in relation to the collateral for your facility, please contact your Relationship Manager.

The information in this ad-hoc investment report does not constitute legal or tax advice. You should consult your legal and/or tax experts if you need any such advice. The investment report does not take tax rules and regulations into consideration, and thus it cannot be used for tax reporting purposes.

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The fee charged for the provision of the Bank's Advisory Service (referring to portfolio(s) ending with −30 to −39) is a Flat Fee notwithstanding that prior to June 2017 the fee may have been described as a Management Fee or All-In Fee in statements or documents received by the client whether by hardcopy, email, Internet Banking or any other form of delivery.
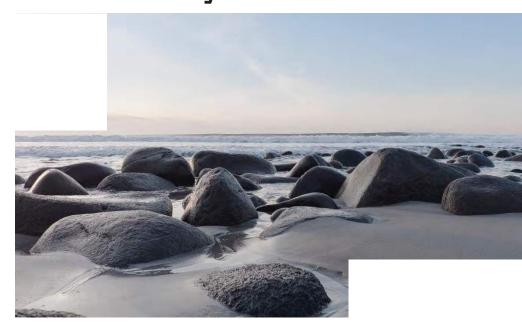
Hong Kong Deposit Protection Scheme (the "DPS"): "Protected deposit" is defined under section 2(1) of the Deposit Protection Scheme Ordinance (Cap. 581 of the Laws of Hong Kong) (the "Ordinance"). Protected deposit does not include those specified in section 1 of Schedule 1 of the Ordinance. In particular, please note that a deposit held or placed in an account with the Bank's Singapore branch is not a protected deposit (as defined in the Ordinance) and consequently is not eligible for the protection under the DPS, notwithstanding that the account holding the deposit is managed by representatives of the Bank's Hong Kong branch. In addition, a deposit held or placed in an account with the Bank's Hong Kong branch where the current term negotiated and agreed exceeds 5 years is not a protected deposit as defined in the Ordinance and consequently is not eligible for protection under the DPS. Certificates of Deposit: Investments in certificates of deposit are not protected deposits as defined in the Ordinance and consequently are not eligible for protection under the DPS.

An individual who is an account holder of an Individual or Joint Account with RMB Services opened and maintained with the Bank's Hong Kong branch is requested to notify the Bank immediately if there is any change to such individual's status in terms of holding a HK Identity Card or not.

This ad-hoc investment report is an electronically generated report and does not require a signature.

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APNIC Monthly Commentary

Summary

- The APNIC portfolio was indicatively up 3.07% in January.

Market Commentary

We have been expecting an environment of heightened volatility to extend into 2023 and January did not disappoint. Large fluctuations in markets can cut both ways, and last month the path of least resistance was a vibrant twin rally in risk assets and global government bonds. All our discretionary mandates have thus started the year with strong positive performance and recovered much of the losses incurred in 2022. The returns posted in January underscore the importance of being fully invested and allowing active management to navigate financial market turbulence.

There is much that has been said and written on the cause of the January rally; and some speculative activity certainly seems to have occurred, benefiting low revenue stocks that underperformed in 2022. Sometimes financial market observers can attach a more meaningful narrative to events than they really deserve, and what we see in the short term is nothing more than noise. To separate the signal from the noise we need to assess the incoming data. Last month the ECB, the RBA and the Federal Reserve continued the path of monetary tightening and indicated more would be forthcoming. Inflation in Australia in the last quarter of 2022 revealed overheating in the services sector, and at an annual pace of 6.9% on the trimmed mean measure of consumer prices, a faster underlying pace of inflation than the RBA had accounted for. Globally, signs of a soft landing are becoming more apparent in the economic data, as evidenced in the business surveys. In the US, the pandemic-related causes of extreme goods inflation are finally reversing, meaning the inflation peak is behind us. At the same time, inflation in the more persistent services sector is yet to fall, implying a return to 2% inflation will not be an easy target. It is possible to tease out a goldilocks scenario, in which economic activity slows just sufficiently to avoid recession and low inflation is restored by year end, enabling central banks to cut policy rates and underwrite equity markets.

In effect, this would be a swift return to the post financial crisis, pre-pandemic norm. The problem is that since inflation broke through to the high inflation zone, the inflation

dynamic and psychology has altered. As a result, an expectation that we will readily return to the past ignores the fact that there may have been a fundamental reset in economic variables, as we have written in our 2023 Investment Outlook. For this reason, financial market pricing looks a little Panglossian, or 'priced for perfection' at the end of January.

Our global Investment Committee (IC) expects corporate earnings to disappoint the consensus. Furthermore, and also in contrast to the collective wisdom in financial markets, our IC does not envisage an about face from the Fed or any other major developed market (DM) central bank this year, in response to faltering economic activity. In order to protect portfolios in this environment we have a tactical underweight to equities versus the strategic allocation.

A robust risk management framework is not simply about guarding portfolios from the eventual headwinds the global economy may face. It is also about overlaying this cautious stance with strategies which exploit mispricing in market segments and with strategies that each have unique drivers. In a fast-moving environment for asset prices, such as the one we are traversing, opportunities appear regularly, and as active managers we remain agile with the aim of capturing these. Our IC has identified various pockets of value in the recent period, and we have positioned our portfolios accordingly. We have rotated from an underweight equity position in the Eurozone to an underweight in Japan, reflecting the improved outlook for the Eurozone and the astonishing resilience of European manufacturing in the face of drastic cuts to gas consumption. We have also returned emerging market (EM) equities to a neutral position versus the benchmark and within this segment we have a preference for Chinese equities. Not only will the re-opening of the Chinese economy catapult consumption higher, but Beijing has softened its stance towards the internet sector and is offering more tangible support to property.

Elsewhere, we continue to see good relative prospects for Australian equities and favour the health care sector and Swiss equities for their defensive properties in cyclical downturns.

Market Value as at 31 January 2023

	Market Value
APNIC Portfolio	A$34,189,008

Performance as of 31 January 2023

APNIC Portfolio				
	Portfolio	Benchmark	Relative	CPI + 2.5%
Month	3.07%	3.37%	-0.30%	0.86%
3 Months	4.13%	4.13%	0.00%	2.55%
Year To Date	3.07%	3.37%	-0.30%	0.86%
1 Year	-4.38%	-3.44%	-0.94%	9.07%
5 Years pa	3.16%	3.40%	-0.24%	5.20%
Since Inception pa	4.09%	4.48%	-0.39%	4.85%

* Performance is after fees but before franking. Inception is September 2013.

Bonds: Long term bond yields in the US have been trading in a wide range since October last year, while in Australia the same pattern has emerged since June 2022. In other words, the market is directionless and volatile. The sharp rise in bond yields in December reversed quickly in January. The same themes are playing out; one-month central bank hawkishness surprises markets and the next there is relief to see goods inflation continue to track a downward trajectory. The constant over time has been a high level of uncertainty about the future and about how much we can extrapolate the moderation in inflation.

The fact that bond yields have stopped trending upwards reflects a bond market that has mostly fully captured future monetary tightening and peak inflation having passed. This is a good environment to invest or add to bonds, tactically timing entry points, along the way. In the riskier end of the fixed income universe conditions have been relatively stable and supportive. Credit spreads (the differential in yields to the government – or risk-free – curve) managed to remain stable or narrow in the risk-off month of December and in the more risk-friendly start of the year, credit spreads have narrowed significantly.

Our sector allocation strategies have added value through our overweight to non-financial corporate bonds and our overweight to sovereign supranational bonds, which benefited from narrowing swap and credit spreads. We paired this strategy with a small underweight to duration relative to the benchmark and this position was a small detractor to relative returns. This combination of positioning protects the portfolio from violent risk-off moves, which in a high inflation regime see yields rise and credit spreads widening at the same time. The underweight in duration is a very tactical position while our overweight to

credit targets a longer time frame.

Australian Equities: The local equity market followed up its outperformance in 2022 with a strong 6.2% ASX200 return in January. Global expectations of peaking inflation and resilient economic activity filtered into a rebound in sectors that underperformed in the previous year with Consumer Discretionary, Real Estate and Technology leading the rally. The mining sector was also a strong beneficiary of the China reopening thematic as commodity prices responded to the prospect of improving commodity demand. These recent developments have lifted ASX returns including dividends to all-time highs; an impressive and differentiated performance given the corrosive impacts from high inflation and tightening monetary policy on most risk asset classes. Within a cautious global equity outlook, we remain constructive on Australian Equities although we argue strongly for selectivity in portfolio positioning. This reflects risk of sharply differentiated sector earnings performance as pandemic spending effects continue to wash through and tighter monetary policy filters into more subdued levels of economic activity. In addition, the decade long build-up of expensive valuations across several sectors and companies is yet to recalibrate to a higher cost of capital. On the positive side, resources and banks are less affected by these risks and given their size and attractive dividend yields provide significant support to the market in aggregate. The key opportunity identified by our portfolio positioning is the ability to own reasonable levels of quality businesses at discounted valuations. This positioning should prove more resilience to risks from monetary tightening and higher inflation while participating in outperforming areas of economic activity. This opportunity is significantly expressed by our tilt towards quality mining and energy companies where we have high confidence in through-the-cycle resilience while benefiting from low-risk capital spending discipline and the return of excess cashflows to shareholders. The potential for cyclical improvement in commodity demand reinforces near-term upside optionality from several positions held in the portfolio. Valuations remain attractive due to conservative market expectations on commodity prices over the medium-term.

International Equities: January saw strong returns for global equity markets with MSCI World ex Australia up 7.09% over the month in USD terms but only up 3.60% in AUD as the Aussie dollar appreciated over the month. Two confluent events have been particular positive for markets in the beginning of the year. The quick end to the zero-Covid policy in China driving market expectations of a sharp economy rebounds and the mild winter in Europe that has defused the energy crisis and lowered the risk of a deep winter recession. Furthermore, recent inflation readings across the US and Eurozone showed slowing inflation, which triggered long term yields to fall providing support for growth stocks.

Outlook: Since our last update we have seen some positive developments in the global economy that further confirm our view that the peak in inflation is in the rear-view mirror and that the US will avoid a hard landing. Furthermore, the sudden reopening of the Chinese economy has underpinned an improved outlook for the region's equity market as well as for the Eurozone economy and its equity markets. Notwithstanding positive incoming information, we believe that the consensus is too optimistic about the degree of inflation moderation over the coming year, and alongside that, is prematurely pricing in monetary policy easing. Indeed, the recent strengthening in the US labour market gives greater confidence to our outlook because it will harden the Fed's inflation-fighting resolve; the US payrolls survey recorded the addition of more than 500 thousand jobs in January – a figure about twice as large as the previous month and a result more in line with a growth upswing, rather than a moderating economy. The upshot, and where the rubber hits the road for equity market performance is profit margins, which are at an elevated starting point and likely to falter amid slowing domestic demand should monetary policy remain restrictive, as we expect. We have a defensive portfolio stance to reflect this view via an underweight to equities versus the strategic allocation, while favouring the equity markets in regions with idiosyncratic positive potential. In this environment, bonds are providing better yields and thus enhanced income opportunities and so offer a good risk/ reward trade-off, which we are looking to implement tactically and via the upcoming shift in the strategic asset allocation (SAA).

In Australia our House View is for the Reserve Bank of Australia (RBA) to raise the cash rate to a peak of 3.6%, and we also expect elevated services inflation to maintain upward pressure on overall inflation and see further acceleration in wage growth. Unlike the US, the domestic household sector is more vulnerable to higher borrowing rates, but the spending cliff has been delayed by the household sector's large savings buffer and by a large number of loans still on fixed rates. This leaves the domestic economy in robust health, but the pace of spending is not sustainable, and the RBA will face a difficult challenge in threading the needle and avoiding a recession later this year.

Data Sources

Credit Suisse, unless otherwise specified.

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Agenda Item 10
Plannign update

Vision and Mission

VISION

A global, open, stable and secure Internet.

MISSION

To provide essential services as a Regional Internet Registry,

and to support Internet development in the Asia Pacific region.

PURPOSE

To serve our community.

IDENTITY

A not-for-profit trusted authority on Internet infrastructure.

Pillars and Workstreams

Membership

1A. Member Services

1B. Membership Products

1C. Membership Reporting

Registry

2A. Registration Services

2B. Registry Products

2C. Policy Development

Development

3A. APNIC Conferences

3B. Foundation Support

3C. Community Engagement

3D. Community Participation

3E. APNIC Academy

3F. Internet Infrastructure Support

Information

4A. Information Products

4B. Research and Analysis

Capability

5A. Internal Technical Infrastructure

5B. Finance and Business Services

5C. Employee Experience

5D. Governance

Overall feedback

- Current plan is too prescriptive and needs to be more flexible
  - 18 workstreams and dozens of activities and targets
  - Priorities change, workstreams and targets lose relevance
  - Emerging activities not mentioned
  - Stifles agility and ability to deal with change – eg. COVID

- Is it focused on the long term or short term?
  - Detailed like an Activity Plan… but a four-year time span?
  - Have we got the timeframe correct?
  - Is it visionary enough?

Overall feedback

- Pillars largely worked as a way to categorise activities

- …but there was overlap, particularly in Development
  – Activities covered in multiple sections led to repetition
  – Development pillar became too large

- …optics of Capability pillar budget distribution not ideal
  – Is there a better way to show where resources are used to support external-facing activity pillars, especially Registry and Membership?

- Greater alignment of company structure to strategic plan needs consideration
  – Current Pillar structure saw multiple Directors responsible, rather than single owners
  – More discussion is needed

Overall feedback

- Arrival of APIDT and significant Foundation funding was not foreseen
  - How do we better cater for Foundation-funded activity in a strategic plan?

- Four Year Targets should be dropped
  - Too hard to predict in advance
  - Rarely referred to after the first year... lost relevance as the document aged

- Keeping the document fresh
  - Should there be a more formal review at the halfway mark of a Strategic Plan to course correct?

At a glance: Progress on Deliverables

Plan progress

Colour indicators to summarise progress against objectives and targets

- Dark Green – on track / completed as planned

- Light Green – on track / completed with updated focus

- Orange – progressing but targets at risk

- Red – no longer a priority / work ceased

1A

Member Services

OBJECTIVE
To deliver excellence in service and value to Members through active and quality engagement.

PURPOSE
To properly serve our Members
With the right services from APNIC, Members will contribute positively to a global, open, stable and secure Internet.

RISKS
Reduction in membership value after IPv4 depletion

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Member services	• Deliver a seamless experience in serving member needs	• Metrics on all service channels • Member experience metrics	• SLA above 99% • Service satisfaction above 90%	
	• Proactively engage with Members at events, Member gatherings, and one-on-one	• Number of interactions with Member contacts • Topic of discussion covered	• All AP economies with active Members are visited, physically or remotely	
	• Ensure that Membership data is accurate and up to date	• Failure to contact Members	• Initial contact success rate above 90%	
Member experience	• Capture and analysis of Member feedback on APNIC products and services, for quality control and continuous improvement	• Feedback satisfaction metrics • Follow up actions	• Feedback satisfaction above 90%	
Membership development	• Ensure that organisations needing APNIC products and services can discover and access them	• Membership growth • Usage of APNIC services • Discoverability Metrics	• Annual Membership growth of 700/year	
	• Build partnerships to provide additional local support relevant to that economy.	• Number of partners • APNIC Survey	• Evidence that local needs are better served	
APNIC Survey	• Undertake APNIC Survey every two years as the primary mechanism to gather information on current issues, and support strategic and operational planning	• APNIC Survey • Quantity and quality of participation	• Increased diversity and number of participants • Follow up actions taken	

1B

Membership Products

OBJECTIVE
To apply best practice in development of membership products which meet Members' needs and exceed their expectations

PURPOSE
To properly serve our Members
With the right products and services from APNIC, Members will contribute positively to a global, open, stable and secure Internet.

RISKS
Reduction in membership value after IPv4 depletion

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Membership Product Management	• Deliver the best possible online experience to Members and the community	• Helpdesk queries • GA metrics • Member feedback • Ticket resolution metrics • Number of deployments	• Reduce number of membership-related helpdesk queries by 50% • Reduced time taken to process membership service requests	
	• Build and maintain Membership products, including MyAPNIC, Online Forms and platforms, to improve value and performance for Members	• Usability Metrics • User experience surveys	• Increase number of MyAPNIC user • Improved score on Usability Metrics • Reduced Mean Time to Deployment • Average latency for membership-related services of less than 5 seconds	

1C

Membership Reporting

OBJECTIVE
To ensure that APNIC remains fully accountable to its Members, by providing timely and accurate information about APNIC operations

PURPOSE
APNIC, as a membership body, is committed to transparency and accountability to Members.

RISKS
Reduction in accountability and trust

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Planning and Reporting	• Develop and publish Activity Plan and Budget, Four Year Strategy, Annual Report, and reports to the community.	• Delivery of reports • Member satisfaction levels	• Annual publication at AGM • Publication of EC Minutes within 2 months of meetings • Publication of Event Wraps within 1 month of applicable events	

2A

Registration Services

OBJECTIVE
To provide delegation and registration services for Internet numbers (ASN, IPv4, IPv6) according to the community developed policies.

PURPOSE
APNIC is the RIR responsible for managing Internet number resources in the Asia Pacific region.

RISKS
Change to current resource management model
Reduction in perceived value of membership
Fraudulent application of membership and resources

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
IPv4, IPv6 and ASN delegation and registration services	• Provide delegation and registration services for Internet numbers according to the current policies.	• Annual satisfactory policy compliance audits • Member feedback	• SLA of 99% • Service satisfaction of 90% • 80% of Members hold IPv6 address space	
Resource Quality Check (RQC)	• Provide a service and tools to check the "quality" of delegated resources, with respect to routing status, whois and IRR registration, geolocation, blacklisting etc.	• Usage of this service • Resolved problems • Member feedback • Unauthorised resource usage	• Service satisfaction of 90%	
Maintain Correct & Current Registry Data	• Support Members to maintain accurate and current number resource registration records.	• Incorrect information reports	• 90% success rate of verifying Whois contacts	
Reclaim unused IPv4 address space	• Identify and contact holders of unused resources to encourage return or transfer. • Provide a listing service for resources available for transfer.	• Amount of resources returned or transferred. • Feedback throughout the process	• 100% of resource holders with potentially unused IPv4 address are contacted • Significant amount of resources returned or transferred	

2B

Registry Products

OBJECTIVE
To provide and maintain an accurate number registry and reliable registry services.

PURPOSE
APNIC is the RIR responsible for managing Internet number resources in the Asia Pacific region. Increasing demand for new registry-related services.

RISKS
Reputational damage and operational disruptions caused by inaccurate registry data

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Internet Number Registry Management	• Operate and manage APNIC's Internet number registry, including identifying areas for improvement and development.	• Review and resolve identified issues and risks • NRO ITHI metrics • NIR data accuracy reflected in delegated statistics	• Continuous ITHI improvements • Accurate NIR data in delegated statistics file	
Registry Product Management	• Build and maintain Registry products, including Whois, RDAP, RPKI, RDNS and IRR, to improve functionality and performance for all stakeholders	• Implementation of features required by new policies and community requests • Consistency between Whois and RDAP • Robustness for critical services such as RPKI publication points and signing systems • UX review of resource management web services	• Implement policies within 6 months of EC approval. • Structural separation of IRR and Whois for a better consistency between Whois and RDAP • RDAP and RPKI repository cloud deployment • Implement publication service for self-hosted RPKI and NIR • Full coverage of all APNIC resources (including NIR) by RPKI services • Implementation of UX improvements to resource management web services	

2C

Policy Development

OBJECTIVE
Facilitate the open Policy Development Process to ensure resource policies in the APNIC region are developed and implemented in a neutral manner consistent with agreed rules and community expectations.

PURPOSE
To ensure Internet number resources are distributed and used according to the technical and operational needs of the network.
Good policy contributes to an open, stable and secure Internet.

RISKS
Policies that don't contribute to an open, stable and secure Internet
Not enough diverse participation in the Policy process

Core & Projects	Objectives	Indicators	Four Year Targets	Three Year Progress
Policy Development Process	• Facilitate the open Policy Development Process to ensure that resource policies are developed in a manner consistent with agreed rules and community expectations.	• Policy SIG activity levels • Exchange of policy-related information with other RIRs • Support of ASO Address Council Members from the APNIC region.	• Eight Policy SIG meetings held • Maintain a service quality rating of 5.75 for Policy Development	
	• Support the Policy Chairs in their execution of policy processes.	• Annual review with Policy Chairs	• High satisfaction rating from Policy Chairs in each annual review of policy support	
Policy implementation	• Implement community-approved policies in a timely and effective manner.	• Compliance with agreed implementation timelines	• Meet 100% of agreed implementation timelines	
Policy analysis	• Analyse impact of policy proposals and advise the community	• Policy proposal analysis	• Publish policy proposal analysis before every Policy SIG meeting	
	• Identify cases where policies may be required, or existing policies modified.	• Policy analysis presentation at each policy meeting	• Delivery of eight policy analysis presentations	

APNIC Conferences

OBJECTIVE
To deliver engaging and relevant APNIC conferences for learning, sharing ideas and experience, professional networking, and Internet policy development.

PURPOSE
APNIC Conferences are highly valued by the community
Conferences provide prime opportunity for engagement between APNIC community and staff and EC
Conferences provide a vehicle for APNIC Policy Development Process

RISKS
Aging community and lack of newcomers
Failure to maintain value and quality
Competing events

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Conferences	• Deliver well-organized, high-quality events for the APNIC community	• Participation numbers • Conference participant evaluation • APNIC Survey feedback	• Delivery of eight conferences, two in each sub-region • Maintain a conference quality rating of 6.0 • Achieve average conference participant satisfaction of 90% • Average attendance of 500 delegates per conference • 16,000 remote conference session views	
	• Deliver consistently interesting and relevant program content to maintain value of conference to participants	• Participation numbers • Conference participant evaluation	• Achieve average satisfaction of 85% for speakers • Average attendance of 500 delegates per conference	
Fellowship	• Support participation in conferences and workshops via Fellowships, with continued focus on diversity.	• Diversity of fellows • Number of fellowships offered • Fellowship participant evaluation	• Support 200+ fellows to attend APNIC conferences • Achieve 50:50 fellowship gender ratio	

Foundation Support

OBJECTIVE
To provide financial and operational support to ensure the success of the APNIC Foundation.

Note: In 2021, APNIC ceased its direct financial support to the Foundation but continued its operational and administrative support

PURPOSE
The mission of the APNIC Foundation is to increase investment in the development activities of APNIC.
APNIC is underwriting and supporting the activities of the APNIC Foundation for up to 10 years.

RISKS
The capacity of APNIC to expand its capacity to support Foundation projects.
The ability to sustain projects and activities once funding has stopped.

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Project management and implementation support	• Support the implementation of well-organized and impactful projects	• Individual Project KPIs • Level of community participation in Foundation projects and activities	• Growing blog and communication impact (4 each year) by community members and project p articipants • 30% of ISIF Asia projects share content at APNIC conferences and other for a	
	• Support for reporting and documentation of projects	• Regular and satisfactory donor reports, • Blog posts and web site updates on all projects and activities.	• All donor report accepted • All projects have blog or other communications coverage	
Operational and administrative support	• Provide finance, operational, technical and legal support	• Successful project implementation • Operational excellence • Governance	• Annual audited financial statements • Annual reports • Annual Board meetings	
ISIF Asia funding	• Contribute financially to ISIF as a partner • Participate as a partner in grant selection process	• Individual KPIs of projects supported	• Demonstrated success of projects supported	

Community Engagement

OBJECTIVE
To build and maintain close and meaningful relationships between APNIC and its various communities

PURPOSE
A strong Internet relies on the cooperative efforts of a diverse community.
To provide a mechanism to encourage active participation.

RISKS
Challenges to the open, stable and secure Internet model.
Challenges to the registry management model.
Reduction of perceived value of APNIC membership.
Political sensitivities in a diverse region.

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Technical Community support	• Support NOGs as BCP for effective Internet community development	• Number of NOG events supported • Number of NOG events attended • Annual investment per NOG	• Sponsor/participate in 32 technical community events per year (NOGs, Peering Forums and R&E events) • Facilitate and support new/revived NOGs where needed	
	• Support regional Internet interconnection IXPs, Peering Forums and similar channels	• Number of events supported and attended		
	• Support R&E networks and community, as key to regional Internet development	• Number of R&E events supported • Number of R&E engagements		
Security Community support	• Work with security organisations (eg APCERT/FIRST, local CSIRTs) to promote best practice among Members	• Number of security events supported • Number of security events attended • Number of CERTs/CSIRTs supported	• Sponsor/participate in 10 security community events per year • Support targeted development of 3 new/existing CERTs/CSIRTs per year	
Internet Organisation Cooperation.	• Support globally co-ordinated registry services, in coordination with other RIRs and NRO	• Participation in NRO CGs • Number of RIR engagements • Number of staff exchanges	• Participate in all RIR meetings (8 per year) • Contribute to all NRO CGs	
	• Engage productively with Internet technical organisations (I* etc)	• Number of engagements	• Participate in all ICANN meetings (3 per year) • Maintain participation in I*	

3C

Community Engagement (cont'd)

OBJECTIVE
To build and maintain close and meaningful relationships between APNIC and its various communities

PURPOSE
A strong Internet relies on the cooperative efforts of a diverse community.
To provide a mechanism to encourage active participation.

RISKS
Challenges to the open, stable and secure Internet model.
Challenges to the registry management model.
Reduction of perceived value of APNIC membership.
Political sensitivities in a diverse region.

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Internet Governance Participation	• Engage the community to strengthen open, multi-stakeholder, bottom-up and transparent Internet governance	• Number and diversity of community participants in IG discussions • Number and quality of IGF, NRIs, SIGs etc	• Participate in 3 Internet governance "schools" per year • Participate in annual APrIGF and global IGF events, and NRIs	
Government Engagement	• Monitor government activities, build engagements and partnerships	• Number of engagements and partnerships with Govts and IGOs	• Maintain engagements in major ITU events and preparatory processes • Maintain engagements in IGO and multilateral arena	
	• Promote the work of APNIC with the Public Safety Community in Asia-Pacific	• Number of Public Safety trainings, workshops and engagements	• Maintain public safety engagements • Increase engagements with external funding	

APNIC

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3D

Community Participation

OBJECTIVE
Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities

WHY
The Internet relies on cooperative efforts of a diverse community.
Greater awareness of APNIC activities allows more of the community to benefit from APNIC's services and resources.
Encourage APNIC community engagement activities.

RISKS
Community generational change
Diversity and newcomers
Perceived value of APNIC services and initiatives

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Community-led Processes	• Increase awareness of and participation in APNIC community processes including the PDP, Special Interest Groups, and BOFs.	• SIG meeting participation (online and face-face) • SIG mailing list metrics • Metrics specific to other community processes that may emerge (consultations, WGs etc)	• 1,200 in-person participants at SIG sessions • 3,200 online SIG participants • 1,500 SIG mailing list subscribers	
Online Participation	• Promote online participation mechanisms, so Members and the community can benefit more efficiently from APNIC products, services and activities. • Develop new mechanisms including an online collaboration platform and web-based mailing list access.	• Website metrics • Online service usage metrics • Conference remote participation • Academy metrics • Blog metrics • Social media metrics	• Reach 4 million Blog views (all-time) • 16,000 remote conference session views • 4,000 conference delegates over four years • 15k Twitter followers • Facebook reach of 8 million	
Encouraging Newcomers	• Encourage new participants in the APNIC community particularly the next generation of network engineers.	• New participants • Repeat participants (online and face-face)	• 1,400 newcomers at APNIC conferences • 300 new Blog subscribers • 3,600 new Twitter followers	
Community Diversity	• Improve diversity (including gender, age, language) of community participation in APNIC events and activities.	• Diversity metrics	• Improved diversity of community participation	

3E

APNIC Academy

OBJECTIVE
Develop APNIC Academy as
a cohesive platform for face-to-face
and online delivery,
To scale up training and technical
assistance with high-quality training
content, curriculum and expertise.

PURPOSE
Responding to the community's high
demand for capacity building assistance is
vital for regional Internet development.

RISKS
Skills gap in the region translates into
security risks for the whole Internet
Lack of adoption of IPv6, RPKI, DNSSEC
Insufficient funding support

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Curriculum Development	• Continued development of online and face-to-face courses for the Academy	• Number of training modules and courses developed	• Full curriculum for rounded Internet engineers	
Face-to-Face Training	• Implement scalable delivery of high-quality face-face training	• Training days/hours supported • Demographic indicators • Participant feedback	• Conduct 65 face-to-face trainings per year	
Online Training	• Implement scalable, versatile platform for online blended learning	• Training service metrics • Participant feedback	• Continual increase in online training delivery • High satisfaction ratings	
Community Trainers	• Recruitment and development of community trainers to improve reach and efficiency of APNIC Academy training.	• Community trainer numbers and activity metrics • Participant feedback	• Grow total pool of active accredited Community Trainers by 10 per year.	
Technical Assistance	• Respond wherever possible to requests from Members for technical assistance, on a cost-recovery basis.	• Number of TA contact hours (online and gafe-face) • Demographic indicators	• 90% TA requests responded through face to face or online delivery	

APNIC
Academy (cont'd)

OBJECTIVE
Develop APNIC Academy as
a cohesive platform for face-to-face
and online delivery,
To scale up training and technical
assistance with high-quality training
content, curriculum and expertise.

PURPOSE
Responding to the community's high
demand for capacity building assistance is
vital for regional Internet development.

RISKS
Skills gap in the region translates into
security risks for the whole Internet
Lack of adoption of IPv6, RPKI, DNSSEC
Insufficient funding support

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
RPKI & IPv6 Promotion & Support	• Increase adoption of RPKI and routing security, and deployment of RPKI ROV. • Increase deployment of IPv6 through training and technical assistance, etc	• Deployment metrics • Promotional activity metrics and feedbacks	• Publish 16 IPv6 deployment case studies • Support all IXPs in the region to deploy RPKI	
Sustainable Training Models	• Scale up APNIC Academy through external Training Partners • Develop financial and business models to support increased training activities	• Number of external partners • Training delivered through external Training Partners • Efficiency/Quality metrics	• Training Partners Program established • Training Partners recruited at least one in each sub-region	

3F

Internet Infrastructure Support

OBJECTIVE
To promote and support the deployment of Internet infrastructure and deploy tools for operational infrastructure monitoring

PURPOSE
For a more resilient Internet in the AP region.

RISKS
Maintaining neutrality in these deployments
Unpredictability of demand

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Internet Infrastructure Deployment	• Support improvement of Internet interconnection, to keep local traffic local reduce cost and latency.	• Richness of domestic interconnection • Number of IXPs supported	• IXPs in major cities of the region (as defined) • IXPs in other locations as needed (eg Island capitals)	
	• Support DNS deployment (root and other) for better resilience of Internet domain name infrastructure • Development of multi-purpose server platform and deployment model	• Number of servers, and server instances, supported • Number of new servers, and server instances, deployed	• Server platform at most IXPs in the region • Adoption of server platform by Members	
Infrastructure monitoring	• Maintain and grow the APNIC Community Honeynet to help network operators maintain network security	• Number of honeypots deployed • Number of Community Honeynet partners	• Honeypots in most economies in the region • Increasing use of Honeynet data	
	• Support RIPE Atlas deployment to support more comprehensive Internet measurement globally	• Number of RIPE Atlas anchors and probes supported	• Increasing total deployment of active anchors and probes	

4A

Information Products

OBJECTIVE
To provide meaningful information services to the communities APNIC serves.

PURPOSE
Having relevant information enables the community to support a global, open, stable and secure Internet.

RISKS
The ability to provide a sustainable service, within available budget

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
APNIC Blog	• Maintain the APNIC Blog as the Internet the leading daily news and opinion portal for Internet operations in the Asia Pacific	• Audience growth metrics • Community contributor metrics • APNIC Survey evaluation	• 4m Blog views (all-time) • Achieve 50k+ views per month (ave) by 2023 • Guest Post ratio of 50% • Survey rating of 5.75	
Information Product Management	• Build and maintain Information products, including Internet Directory, NetOX and DASH to improve relevance and value to all stakeholders.	• Users/month (new and current) • User feedback/ratings • GA metrics • Net Promoter Score	• Increased discoverability, usability and value offered – as measured. • Average latency less than 200ms, uptime of 99.99%	
New Product Development	• Apply product management methodology to building the Information product portfolio.	• Newly-developed related products		

APNIC

4B

Research & Analysis

OBJECTIVE
To analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts.

PURPOSE
To influence the evolution of the Internet in a manner consistent with the open and accessible use of communications infrastructure as a social good.
To support the PDP with relevant research data

ASSUMPTIONS
A sustainable revenue model that permits longer term investments into analysing the future Internet

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Research and Measurement	• Conduct research experiments on topics including IP addressing, routing, DNS and other critical Internet infrastructure matters.	• Published articles and reports	• 50 articles and reports published	
Sharing Outcomes	• Share research insights online and at selected events to raise awareness of issues and trends which may impact Internet operations and assist policy discussions.	• Presentations at chosen events	• 40 presentations delivered	
	• Provide information to APNIC Policy SIG to assist policy discussion	• Informational presentations at Policy SIG	• Eight presentations to Policy SIG	
Research Cooperation	• Engage in research partnerships with other organisations	• Co-published articles and reports	• 10% of research expenditure covered via sponsorship	

5A

Internal Technical Infrastructure

OBJECTIVE
To provide stable and secure technical infrastructure to support APNIC operations and services.

PURPOSE
APNIC operations and services rely heavily on technology.

RISKS
Operations and service disruption
Cyberthreats and other attacks

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Information Architecture	Management of information architecture and governance for better integration and coordination	• Management framework for inter-system dependencies • Comprehensive visibility of inter-system communications for developers and operations • Data governance to manage roles and responsibilities regarding APNIC's data sets	• Products and systems exclusively communicate via managed APIs • Complete inter-system dependency graph • Active processes to maintain IA documentation	
Network and Infrastructure Operations	Management of APNIC data centre presence, interconnections and peering relationships, 24x7 Incident Response Team.	• Availability of network and services • Network performance metrics • System metrics	• Achieve fewer hops away from all members and relying parties • Achieve yearly availability of 99.9% for critical APNIC services	
	Maintain high availability of all public services including whois, RDNS, RPKI, RDAP etc	• Availability of network and services		
System & Platform Operations	IT Asset Lifecycle Management	• Asset Auditing & Compliance	• Complete annual audit of all IT hardware, 100% of assets accounted for.	
	Migration of services to virtualised and 'cloud' infrastructure	• Virtualisation deployment ratio • Cloud deployment ratio	• Achieve 90% virtualisation/cloud ratio overall	

Internal Technical Infrastructure (cont'd)

OBJECTIVE
To provide stable and secure technical infrastructure to support APNIC operations and services.

PURPOSE
APNIC operations and services rely heavily on technology.

RISKS
Operations and service disruption
Cyberthreats and other attacks

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
CSIRT Operations	Maintaining CSIRT to strengthen security incident response and handling within APNIC (relating to APNIC systems and services).	• Security incident metrics • Response/resolution time • Adherence to best practice	• Action within 2 hours, containment within 4 hours for security incidents • Minimised operational impact from security incidents	
Enterprise Application Management	Management and ongoing improvement of all enterprise applications underpinning APNIC operations	• User experience • Efficiency in business processes	• All critical applications access secured • 100% archiving of legacy systems and data	

Finance & Business Services

OBJECTIVE
To provide efficient and robust finance and business services and facilities to support APNIC's operations.

PURPOSE
APNIC's operations must be effectively managed to provide efficient use of Member funds in carrying out APNIC's mission.

RISKS
Reputational damage and/or legal or financial penalties
Loss of "mutuality status" for tax purposes.

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Knowledge management	• Maintaining effective methods, structures and tools to retain and retrieve corporate information within APNIC.	• Use of enterprise wide knowledge management tools	• Stable, cost-effective and well-used systems	
Financial Services	• Industry-standard financial management and reporting through compliance with relevant accounting standards.	• Annual financial audit	• Unremarkable financial audit report every year	
	• Proper stewardship of APNIC's financial and taxation status	• APNIC's mutuality tax status	• Successful renewal of mutuality status	
	• Effective stewardship of APNIC financial resources	• Meeting the financial targets set by the EC	• Approved budget outcome exceeded each year	
Business Services	• Provide administrative services to support APNIC operations	• Staff feedback	• High satisfaction with administrative support.	
	• Manage risks affecting business stability and continiuty	• Business Continuity Plan in place	• Undertake quarterly BCP scenario testing	
	• Maintain a globally recognised Quality Management System	• ISO 9001 audit and recertification	• Successful annual ISO audit	
Business Intelligence	• Integrate data from all critical systems for better analysis and reporting.	• Cross-organisational KPIs. • External information reporting e.g., EC report • Internal information reporting e.g., ad-hoc metrics	• Stable, cost-effective and well-used systems	

5C

Employee Experience

OBJECTIVE
To attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organisation and community expectations.

PURPOSE
APNIC's mission to serve its community requires a human-centred approach delivered by competent, responsive teams.

RISKS
Loss of key talent
Our ability to compete in the talent market

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Organisational Development	• Optimise organisational structure for the achievement of APNIC goals	• Staff Engagement Survey • Resource Utilisation	• Meet staff engagement benchmarks	
	• Optimise overall staff performance, promoting APNIC values and culture	• Staff Engagement Survey • Staff exit Interviews	• Maintain high-performing, benchmarked engagement levels	
	• Extend APNIC's workforce regionally, to adequately resource the work needed.	• Staffing levels • Staff performance	• Match benchmarks for distributed and HQ staff	
Physical work environment management	• Ensure that all places of work for APNIC staff, are fit for purpose and safe.	• WHS audit	• Zero WHS incidents due to fault of APNIC	
	• Manage travel safety and wellbeing, and risk to people and the organisation	• Travel incident reports	• Zero WHS incidents due to fault of APNIC	

5C

Employee Experience (cont'd)

OBJECTIVE
To attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organisation and community expectations.

PURPOSE
APNIC's mission to serve its community requires a human-centred approach delivered by competent, responsive teams.

RISKS
Loss of key talent
Our ability to compete in the talent market

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Talent Attraction & Retention	• Recruit and retain the right skills and fit to best achieve APNIC objectives	• Voluntary turnover stats • Recruitment metrics	• Maintain benchmarked turnover level • Recruitment within 3 mo of approval	
	• Manage individual staff performance to ensure high organisational performance	• Performance Metrics	• Individual performance aligned with APNIC's strategic and operational goals	
	• Develop staff skills & knowledge to meet business needs and staff personal goals	• Staff retention • Training metrics • Exit interviews	• Delivery of training plans within budget • Zero attrition for reasons of training/professional development	
Policies and Benefits Management	• Provide policies and benefits which attract and retain staff	• Benchmarking • Staff survey results	• Policies benchmarked against leading organisations	

5D

Governance

OBJECTIVE
To provide the legal, economic and governance framework and professional services to support APNIC's operations to minimise risk and ensure compliance and continuity.

PURPOSE
EC and APNIC have a requirement for transparency and accountability and must comply with all organisational, domestic and international obligations.

RISKS
Reputational damage
Legal or financial penalties

Activities	Objectives	Indicators	Four Year Targets	Three Year Progress
Executive Council (EC) Support	• Provide logistical and administrative support to enable the EC to discharge their duties • Ensure that the EC is adequately informed on all matters as required	• EC meeting processes and timelines, for travels meetings etc. • EC performance and satisfaction metrics	• Meeting agreed timelines for all processes and activities • Maintaining satisfaction levels	
Corporate Governance & Legal	• Ensure that APNIC continues to have a culture of legal & regulatory compliance and commitment to recognised professional standards • Ensure that organisational risks are effectively managed	• Fair Work Standards Compliance • Risk Registry Compliance	• No adverse actions against APNIC • Revised Risk Registry implemented • Risk Register review undertaken at each EC meeting	

APNIC

Agenda Item 13
APNIC Foundation update

Foundation Update

EC meeting

(Manila Hybrid)

25 February 2023

Duncan Macintosh

Foundation CEO

Key Points

1. 2022 Q4 (Dec 10) Board meeting report

2. 2023 Board meeting agenda

3. 2023 Operational budget update and grant agreement

APNIC
FOUNDATION

Q4 Dec 10 Board meeting

➢ Remote concurrent meeting of AFA and AFHK

➢ Danish Lakhani continues as chair.

➢ The following were approved by resolution:

    i.   2023 grant agreement

    ii.   2023 operational budget

    iii. 2023 operational plan

Q4 Board meeting: Action items

➢ A joint meeting of the EC and the Foundation Board was requested. To be held this afternoon.

➢ APNIC confirmed that it will be invoicing the Foundation AUD 250,000 annually for additional support costs (licenses etc). This required an update to the 2023 operational budget.

➢ The Board seeks a review of the Affirmation of Commitment (AoC) between APNIC and the Foundation to ensure it accurately reflects the changing status of the relationship.

➢ The Board also asked for a review of recruitment costs currently carried out by APNIC HR

➢ The Board continues to monitor the Foundation's project activities in the sanctioned economies of Afghanistan and Myanmar

APNIC
FOUNDATION

2023 Q1 Board meeting agenda

1. CEO report including fund raising update

2. 2022 end of year Trust grant report

3. Finance report including 2022 Q4 and 2022 operational budget reports

4. 2023 operational budget update

5. Funding agreement between AFA and AFHK (resolution for approval)

6. Updating bank authorisers and signatories (resolution for approval)

7. Foundation risk register

8. Foundation documentation procedures

9. CEO performance review

2023 Program Expenses

Program Expense Details	2023 Budget (USD)
Infrastructure Programs:	4,128,973
M-Root Deployment	725,840
Cybersecurity: Honeynet and threat sharing	53,130
Research and Internet Measurement	200,000
Foundation Grants	303,107
AI3 & SOI Asia	2,846,896
Knowledge Programs:	2,550,199
APNIC Academy Platform and Curriculum Development	1,021,545
Training delivery & Community Trainers	1,223,439
Trust Discretionary Fund	250,000
Curriculum Development for non-technical Audiences	55,214
Inclusion Programs:	4,290,063
ISIF Asia (incl. IPv6)	2,718,546
SWITCH!	1,385,946
Mentoring Network – Afghanistan	185,572
Program Expense Total	10,969,234

2023 Operational budget

Account Name	2023 Budget (USD)
Revenue	
Grants	10,969,234
Overhead Income	1,654,355
Other Income	0
Revenue Total	12,623,590
Operating Expense	
Administration Expenses	172,500
Bank Service Fees	3,534
Communication Expenses	3,145
Computer Expenses	23,024
Insurance Expenses	2,374
Staff Event Expenses	1,829
Personnel and Salaries Expenses (Foundation)	705,233
Personnel and Salaries Expenses (APNIC)	188,117
Postage & Delivery	1,060
Professional Fees	51,405
Staff Training Expense	13,852
Subscription	600
Sundry Expenses	389
Travel Expense	351,968
Operating Expense Total	1,519,028
Program Expense	
Infrastructure Programs	4,128,973
Knowledge Programs	2,550,199
Inclusion Programs	4,290,063
Program Expense Total	10,969,234
Operating Surplus/(Deficit)	135,327
Foreign Exchange Gain/(Loss)	0
Net Surplus/(Deficit)	135,327

APNIC FOUNDATION

[Confidential information redacted]
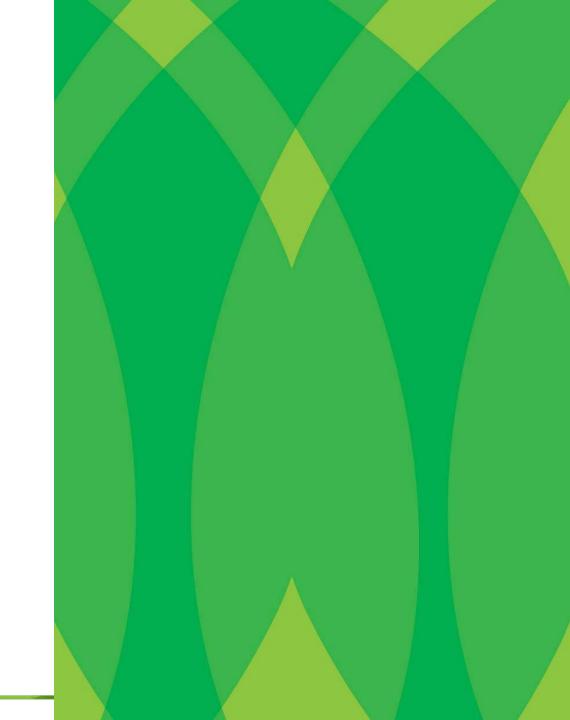
Thank you!

To know more about our work
https://www.apnic.foundation
Twitter @ApnicFoundation
FB ApnicFoundation
LinkedIN apnic-foundation
YouTube https://bit.ly/3A8qDJD

ISIF Asia | https://isif.asia
Twitter @ISIF_Asia
FB ISIF.asia

Questions?

Agenda Item 14
APIDT update

APIDT Update

APNIC EC Meeting – February 2023

APIDT Update

- Funding Activities
  - ARENA-PAC
  - APNIC Foundation
- Investments
  - Investment Advisory Council
  - Fund Performance
- Operations
  - Activities
  - APIDT Resourcing
- Financial Performance

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

Funding Activities –
ARENA-PAC

IRU Agreements

- IRU – Tokyo -> Guam Live

- IRU – Guam -> Singapore Live

- IRU - Guam -> Indonesia, Service now accepted, awaiting final invoice

  - Connectivity from Malang to Hera Campus UNTL 20G being finalized

- IRU - Guam -> Philippines, Signed at PTC in January, provisioning underway

- Equipment Purchase – Tokyo/Guam/Philippines/Indonesia

  - Equipment arrived in Tokyo - November

  - Equipment being rolled out to locations

- Working with ARENA-PAC colleagues finalizing the set-up of a local service company in Japan

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

3

Funding Activities –
APNIC Foundation

APNIC Foundation Grants:

- Foundation Grant request for 2022 – $14.4M USD

  - Tranche 1 – $8.6M USD paid in April 2022

  - Tranche 2 – $250K USD paid in February 2023

  - Total 2022 – $8.9M USD

- Foundation Grant Request for 2023 – $12.6M USD

  - Tranche 1 – $7.6M USD – Mar 2023

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INTERNET
DEVELOPMENT
TRUST

4

Investments
Investment Advisory Council

IAC Activities

- Established a default "Yield" portfolio similar to the APNIC Investment Fund profile for the initial investment but in USD
- IAC sub-committee worked with Credit Suisse to finalize the APIDT Investment policy statement, approved by the APIDT Board 27/10/2022 and now in implementation phase
  - Split into Liquidity Fund and Endowment Fund, strong focus on ESG/RI
  - Increased exposure to Alternative Investments within the Endowment Fund
- Since the end of April 2021, $396M USD transferred to the Fund
- The IAC meets Quarterly

Purchase of Property $15,242,000 AUD – Approx. $11,200,000 USD

- Funded from the USD Account ($1.43M AUD GST refund received)
- Master plan for the site completed, Architects engaged for Design, Documentation, Interiors, and Project Management
- Current tenant has leaseback until 31 December 2022, with extension up to the end of March 2023 agreed
- Establishing an AUD Term deposit within Credit Suisse to fund building costs $25M USD

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

Investments
Fund Performance

Operations
Activities

- KPMG currently completing APIDT's second external audit (Jul-2021 to Dec-2022)

- Second ACNC (Australian Charities and Not-for-Profit Commission) annual Information statement due 30 June 2023

  - In line with ACNC approval for APIDT to move to calendar year reporting in line with Foundation and APNIC reporting periods

- Logo design and CI completed, website updated

- Master Plan concept development completed, design and documentation has commenced with the final contract agreed with Architects

- Budget planning for 2023 nearly complete

- Increased focus on managing short-term cash flow and interest-bearing deposits

Operations
Resourcing

- Craig Ng - Legal Counsel, engaging other specialist legal advice when required

- EY provide ongoing financial services and preparing for Statutory Reporting, GST reporting and the ACNC annual information statement

- Irene Chan providing support 3 days per week in 2023

- Kim Park acting in role as Advisor on the building project, initially 1-2 days per week

- New Project Support role planned for 2023

- Ongoing support from APNIC

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TRUST

YTD Financial Performance

6. Financial Performance

Consolidated Statement of Profit or Loss
Asia Pacific Internet Development Trust and its controlled entity
1 January 2022 to 31 December 2022

Income	Total Jan - Dec 22 USD	Budget USD Jan - Dec 22	Var to Budget Jan - Dec 22	% Variance
Investment income				
Interest Income	91,652	85,385	6,267	7%
Investment Dividend Income	2,387,274	3,071,200	(683,926)	-22%
Unrealised Foreign Currency Gain	-	-	-	0%
Realised Foreign Currency Gain	315,837	-	315,837	0%
Gain from Market Value Adjustment	-	18,710,744	(18,710,744)	-100%
Less: Investment Management Fees	(1,008,938)	(1,131,069)	122,131	-11%
Less: Interest Paid	(961)	-	(961)	0%
Total Investment income after fees	1,784,864	20,736,260	(18,951,396)	-91%
Other income				
Outgoing Recoveries Income	97,694	-	97,694	0%
Other income	7	-	7	0%
Total Other Income	97,701	-	97,701	-
Total Income	1,882,565	20,736,260	(18,853,695)	(1)

Expenses				
Funding Expenses				
Grants - APNIC Foundation	8,639,227	14,357,603	(5,718,376)	-40%
APIDT Infrastructure - IRU Operating & Management Fees	155,604	325,802	(170,198)	-52%
APIDT Infrastructure - IRU Amortisation of Investments	159,967	738,544	(578,576)	-78%
Depreciation Expenses - ARENA-PAC Equipment	34,379	243,750	(209,371)	-86%
Total Funding Expenses	8,989,178	15,663,699	(6,674,521)	-43%
Operating Expenses				
Accounting Fees	90,835	107,663	(16,828)	-16%
Staffing & Professional Fees	194,174	287,342	(93,168)	-32%
Insurance Expenses	23,202	15,205	7,997	53%
Legal Fees	94,320	106,950	(12,630)	-12%
Travel expenses	59,672	150,000	(90,328)	
Membership Fees	8,483	8,244	239	3%
Depreciation	-	1,500	(1,500)	-100%
Other Operating Expenses	22,951	25,000	(2,049)	-8%
Total Operating Expenses	493,638	701,904	(208,266)	-30%
Total Funding and Operating Expenses	9,482,816	16,365,603	(6,882,787)	-42%
Surplus/(Deficit) - Investing, Funding and Operating	(7,600,251)	4,370,657	(11,970,908)	
Other Expenses				
Direct Recoverable Expenses	98,703	-	98,703	0%
Loss from market value adjustment	52,495,221	-	52,495,221	0%
Unrealised Foreign Currency Loss	2,933	-	2,933	0%
Realised Foreign Currency Loss	-	-	-	0%
Loss on Sale of Intangible Asset	-	-	-	0%
Total Other Expenses	52,596,857	-	52,596,857	0%
Total Expenses	62,079,673	16,365,603	45,714,071	
Surplus/(Deficit)	(60,197,108)	4,370,657	(64,567,766)	

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

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Statement of Financial Position

Assets		31 December 2022 USD
Bank	AUD Operating Account	1,034,561
	USD Operating Account	3,797,416
	Term Deposit USD	1,514,697
Total Bank		**6,346,674**
Current Assets	Cash On Hand	165
	Accrued Interest	3,847
	Prepayments	103,985
	Accounts Receivable	473
Total Current Assets		**108,470**
Right-of Use-Assets	IRU: JGA-N, Guam-SG, Guam -Malang	3,061,279
Total Right-of-Use-Assets		**3,061,279**
Fixed Assets	Network Server System	986,258
	Less: Accumulated Depreciation	(32,875)
	Plant & Equipment	3,866
	Less: Accumulated Depreciation	(1,504)
Total Fixed Assets		**955,745**
Investment Property	Acquisition Costs	720,133
	Purchase Price	10,711,930
	CAPEX- Professional fees	63,322
Total Investment Property		**11,495,385**
Investment Portfolio	Investment Portfolio	397,807,544
	Market Value Adjustment	(43,144,653)
Total Investment Portfolio		**354,662,891**
Total Non-Current Assets		**370,175,301**
Total Assets		**376,630,445**

Liabilities		31 December 2022 USD
Current Liabilities	Accounts Payable	451,526
	Accrued Expenses	111,003
	GST	(52,957)
	Employee Liabilities	26,239
Total Current Liabilities		**535,810**

Net Assets	376,094,635

Trust Funds		31 December 2022 USD
	Capital Contributed	440,716,493
	Accumulated Surplus/(Deficit)	(64,621,926)
	Settlement Sum	68
Total Trust Funds		**376,094,635**

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

Draft Budget 2023
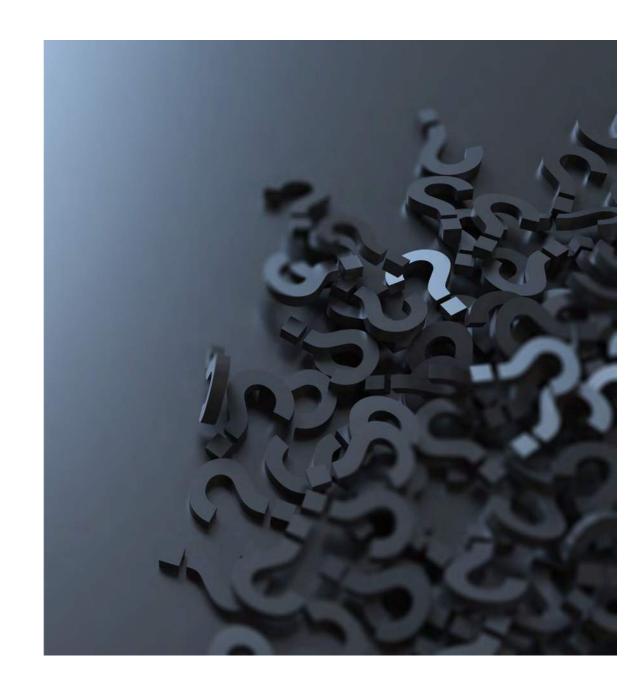
Income		Actual 2022 USD	Budget 2022 USD	2022 Var to Budget	% Variance	Draft Budget 2023 USD	Change to 2022 %
Investment Income	Interest Income	91,652	85,385	6,267	7.34%	693,264	656.41%
	Investment Dividend Income	2,387,274	3,071,200	(683,926)	(22.27%)	2,400,000	0.53%
	Gain from Market Value Adjustments	-	18,710,744	(18,710,744)	(100.00%)	15,657,561	n/a
	Unrealised Foreign Currency Gains						
	Realised Foreign Currency Gains	315,837		315,837			
	Less: Investment Management Fees	(1,008,938)	(1,131,069)	122,131	(10.80%)	(972,241)	(3.64%)
	Less: Interest paid	(961)		(961)			
Total Investment Income after fees		**1,784,864**	**20,736,260**	**(18,951,396)**	**(91.39%)**	**17,778,584**	**896.07%**
Other Income	Leasing Income 56 BCR	-	-	-		89,473	n/a
	Less: Property Outgoings	-	-	-		(177,800)	n/a
	Outgoings Recovery Income	97,694	-	97,694		-	
	Other Income	7	-	7		-	
Total Other Income		**97,701**		**97,701**		**(88,327)**	**(190.41%)**
Total Income		**1,882,565**	**20,736,260**	**(18,853,695)**	**(90.92%)**	**17,690,257**	**839.69%**

Expenses		Actual 2022 USD	Budget 2022 USD	2022 Var to Budget	% Variance	Draft Budget 2023 USD	Change to 2022 %
Funding Expenses	Grants - APNIC Foundation	8,639,227	14,357,603	(5,718,376)	(39.83%)	12,614,620	46.02%
	APIDT Infrastucture - IRU Operating & Management Fees	155,604	325,801	(170,197)	(52.24%)	560,640	260.30%
	APIDT Infrastucture - IRU Amortisation of Investments	159,967	736,544	(576,576)	(78.28%)	410,756	156.77%
	ARENA-PAC Operating Expenses	-	-	-		399,538	n/a
	Depreciation Expenses - ARENA PAC Equipment	34,379	243,750	(209,371)	(85.90%)	360,718	949.24%
Total Funding Expenses		**8,989,178**	**15,663,698**	**(6,674,521)**	**(42.61%)**	**14,346,271**	**59.59%**
Operating Expenses	Accounting Fees	90,835	107,663	(16,828)	(15.63%)	100,100	10.20%
	Staffing & Professional Fees	194,174	287,342	(93,168)	(32.42%)	435,316	124.19%
	Insurance Expenses	23,202	15,205	7,997	52.60%	19,911	(14.19%)
	Legal Fees	94,320	106,950	(12,630)	(11.81%)	105,000	11.32%
	Travel Expenses	59,672	150,000	(90,328)	(60.22%)	150,000	151.37%
	Membership Fees	8,483	8,244	239	2.90%	2,143	(74.74%)
	Depreciation	-	1,500	(1,500)	(100.00%)	3,176	n/a
	Other Operating Expenses	22,951	25,000	(2,049)	(8.20%)	25,000	8.93%
Total Operating Expenses		**493,638**	**701,904**	**(208,266)**	**(29.67%)**	**840,646**	**70.30%**
Total Funding and Operating Expenses		**9,482,816**	**16,365,603**	**(6,882,787)**	**(42.06%)**	**15,186,917**	**60.15%**

Surplus/(Deficit) - Investing, Funding and Operating		(7,600,251)	4,370,658	(11,970,908)	(273.89%)	2,503,339	(132.94%)

Other Expenses							
	Loss from market value adjustment						n/a
	Unrealised Foreign Currency Loss	2,933		2,933	100.00%		-100.00%
	Realised Foreign Currency Loss				100.00%		n/a
	Loss on Sale of Intangible Asset		-	-	100.00%	-	n/a
	Loss from Market Value Adjustments	52,495,221	-	52,495,221	100.00%	-	-100.00%
	Direct recoverable expenses	98,703	-	98,703	100.00%	-	-100.00%
Total Other Expenses		**52,596,857**	**-**	**52,596,857**	**100.00%**	**-**	**-100.00%**
Total Expenses		**62,079,673**	**16,365,603**	**45,714,070**	**279.33%**	**15,186,917**	**-75.54%**

Surplus/(Deficit)		(60,197,108)	4,370,658	(64,567,765)	(1477.30%)	2,503,339	-104.16%

ASIA PACIFIC INTERNET DEVELOPMENT TRUST

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- Questions

Agenda Item 15
Secretariat report

2022 APNIC Activity Report

APNIC AGM
2 March 2023

Strategic Plan

VISION: A global, open, stable, and secure Internet.

MISSION: To provide essential services as a Regional Internet Registry, and to support Internet development in the Asia Pacific region.

STRATEGIC PILLARS:
1 MEMBERSHIP
2 REGISTRY
3 DEVELOPMENT
4 INFORMATION
5 CAPABILITY

VALUES: Passion – Trust – Curiosity – Accountability – Inclusion

CREDO: WE ARE APNIC

APNIC

MEMBERSHIP

Member Services

- APNIC Members 9,268
  NIR sub accounts 13,807

- Service satisfaction 95% 'excellent' and 'above average' (749/792)

- Member Services 48hr SLA 99.99% met

- 3,842 feedback items received;
  940 required action and resolved

- 268 Member Services engagements across 32 economies on RPKI, transfers, TA, and historical resource transition

- 35 fraud attempts detected and prevented
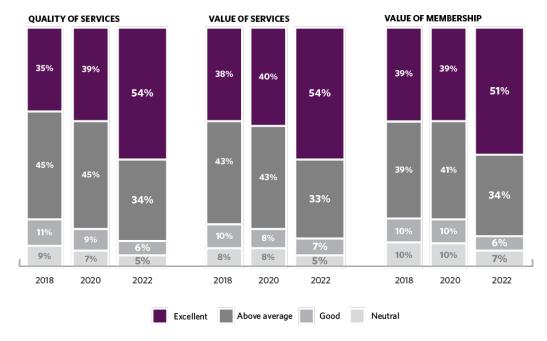
APNIC Survey

- Interview phase – 37 interviews in 26 economies

- Online survey phase – 1,622 respondents, 61% new

- High satisfaction – matching or improving on 2020
  - Quality of service 94%
  - Value of services 94%
  - Value of membership 92%

- EC Response to Survey

- www.apnic.net/survey

MEMBERSHIP SATISFACTION

HOW WOULD YOU RATE APNIC's:

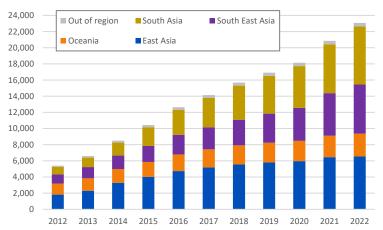| QUALITY OF SERVICES			VALUE OF SERVICES			VALUE OF MEMBERSHIP		
35%	39%	54%	38%	40%	54%	39%	39%	51%
45%	45%	34%	43%	43%	33%	39%	41%	34%
11%	9%	6%	10%	8%	7%	10%	10%	6%
9%	7%	5%	8%	8%	5%	10%	10%	7%
2018	2020	2022	2018	2020	2022	2018	2020	2022

■ Excellent   ■ Above average   ■ Good   ■ Neutral

Membership products

Planned roadmap goals completed

- Implemented a new eduroam API

- Developed an internal LDC graduation process

- Added automated workflow to support the historical resources transition project

- Improved the quality and workflow of 'Invalid Contact' reports

- Overhauled MyAPNIC information architecture

- Improved voting eligibility checks

- Implemented a new MyAPNIC dashboard

- Improved MyAPNIC audit and activity logs for Corporate Contacts

- Automatically linked eligible contacts to MyAPNIC

Additional roadmap goals completed

- Upgraded APNIC Login

- Improved Help Centre articles

- Improved EC election proxy appointment feature

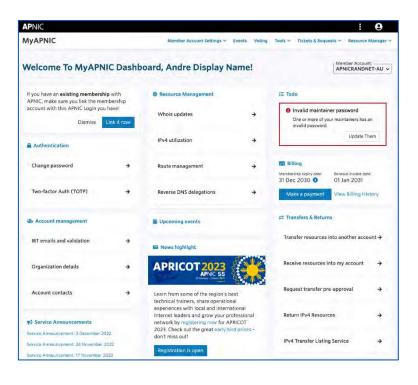- Improved MyAPNIC process to change an organization's name

Roadmap goals in progress

- Improving MyAPNIC contact management
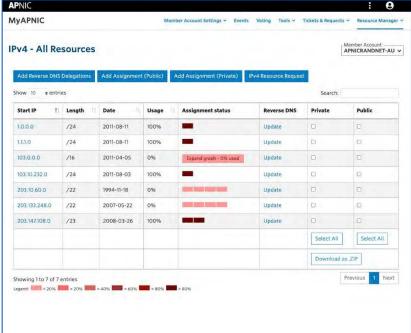
Membership Products

- MyAPNIC user satisfaction 81%

HRM status (current)

Outcome	Routed		Unrouted		Total	
	Cases	IPv4	Cases	IPv4	Cases	IPv4
Yet to Contact					0	0
No Response - Attempting to contact holders	146	577,024	1,061	1,107,712	1,207	1,684,736
Not Contactable – Deregistered*			922	776,960	922	776,960
Retained by Holder	262	1,504,256	172	804,864	434	2,309,120
Being Claimed by Holder	217	931,840	276	923,648	493	1,855,488
Voluntarily Returned to APNIC – Recycled**			58	86,272	58	86,272
Prefixes No Longer Needed – Deregistered*			136	45,568	136	45,568
Routed Without Authority	16	33,536	3	1,792	19	35,328
Reclaimed under Unused Historical Resource policy – Recycled**			68	548,608	68	548,608
Total	**641**	**3,046,656**	**2,696**	**4,295,424**	**3,337**	**7,342,080**

* Total recycled: 126 cases / 634,880 IPv4 addresses
** Total deregistered: 1,058 cases / 822,528 IPv4 addresses

HRM snapshot (current)

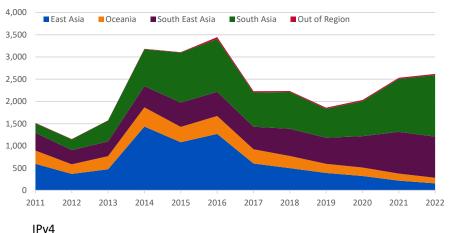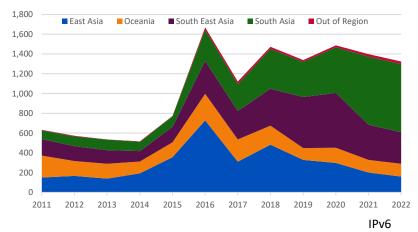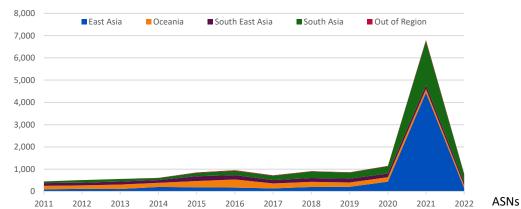**ROUTED CASES** — Record Count — Case Outcome
- No Response
- Prefixes Being Claimed by Holder
- Prefixes Retained by Holder
- Routed Without Authority

146 (22.78%), 262 (40.87%), 217 (33.85%) — Total: 641
View Report (HRM Routed Cases)

UNROUTED CASES — Record Count — Case Outcome
- No Response
- Not Contactable
- Prefixes Being Claimed by Holder
- Prefixes No Longer Needed
- Prefixes Reclaimed Under Unused Hi...
- Prefixes Retained by Holder
- Prefixes Returned to APNIC
- Routed Without Authority

173 (6.42%), 1.1k (38.21%), 275 (10.2%), 926 (34.35%) — Total: 2,696
View Report (HRM Unrouted Cases)

CASE OUTCOME — Record Count — Case Outcome
- No Response
- Not Contactable
- Prefixes Being Claimed by Holder
- Prefixes No Longer Needed
- Prefixes Reclaimed Under Unused His...
- Prefixes Retained by Holder
- Prefixes Returned to APNIC
- Routed Without Authority

435 (13.04%), 1.2k (36.05%), 492 (14.74%), 926 (27.75%) — Total: 3,337
View Report (HRM Case Outcome)

CASE OUTCOME & UNCLAIMED HISTORICAL PREFIXES (ROUTED CA... — Sum of Number of IPv4 Resources — Case Outcome
- No Response
- Prefixes Being Claimed by Holder
- Prefixes Retained by Holder
- Routed Without Authority

577k (18.94%), 1.5M (49.37%), 932k (30.69%) — Total: 3,046,656
View Report (HRM Case Outcome (Routed Cases))

CASE OUTCOME & UNCLAIMED HISTORICAL PREFIXES (UNROUTED... — Sum of Number of IPv4 Resources — Case Outcome
- No Response
- Not Contactable
- Prefixes Being Claimed by Holder
- Prefixes No Longer Needed
- Prefixes Reclaimed Under Unused Hi...
- Prefixes Retained by Holder
- Prefixes Returned to APNIC
- Routed Without Authority

807k (18.79%), 1.1M (25.75%), 779k (18.14%), 921k (21.44%), 549k (12.77%) — Total: 4,295,424
View Report (HRM Case Outcome (Unrouted Cases))

CASE OUTCOME & UNCLAIMED HISTORICAL PREFIXES — Sum of Number of IPv4 Resources — Case Outcome
- No Response
- Not Contactable
- Prefixes Being Claimed by Holder
- Prefixes No Longer Needed
- Prefixes Reclaimed Under Unused His...
- Prefixes Retained by Holder
- Prefixes Returned to APNIC
- Routed Without Authority

1.7M (22.92%), 779k (10.61%), 1.9M (25.24%), 549k (7.47%), 2.3M (31.48%) — Total: 7,342,080
View Report (HRM Case Outcome)

APNIC

HRM status (to date)

Legend:
- ■ Yet to contact
- ■ Prefixes being claimed by holder
- ■ Prefixes retained by holder
- ■ Not contactable
- ■ No response
- ■ Prefixes no longer needed
- ■ Prefixes returned to APNIC
- ■ Routed Without Authority
- ■ Prefixes reclaimed under policy

Months (x-axis): Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan, Feb

REGISTRY

Resource Delegations

IPv4

IPv6

ASNs

APNIC Transfers

Market
Last 10 years IPv4 transfers within APNIC by end of December 2022

M&A
Last 10 years IPv4 APNIC M&A transfers by end of December 2022

Inter-RIR Inbound
Last 10 years IPv4 transfers into APNIC by end of December 2022

Inter-RIR Outbound
Last 10 years IPv4 transfers from APNIC by end of December 2022

APNIC

13

Registry Products

- NIR API deployed to production

- APNIC RDAP updated to comply with RIR RDAP profile

- RPKI production system increased to validity period for manifests and CRLs to reduce errors

- Availability of whois, RDAP, RPKI, RDNS, IRR: 99.99%

- APNIC Registry API prototype deployed for public testing; production API development scheduled for 2023

- Identified 'highly critical' services and completed gap analysis for Five-9s readiness

Registry Product Development

Planned roadmap goals completed

- Improved ROA deletion and recreation process for transfers

Additional goals completed

- New transfer log for prop-142 implementation

- MyAPNIC Resource Manager Restyling

Roadmap goals in progress

- Updating authorization mechanism for whois

- Improving ASN delegation identity in whois and MyAPNIC

- Pre-validation of all RPKI changes to avoid errors

Policy Development

Proposal	Conference	Status
prop-141: Change maximum delegation size of IPv4 from 512 (/23) to 768 (/23+/24) addresses	APNIC 53	Presented for discussion only; not considered for consensus
prop-142: Unify Transfers Policies Text	APNIC 53	Reached consensus; adopted; implemented
prop-143: ASN to Customer	APNIC 53	Reached consensus; adopted; implemented
prop-144: Experimental Proposal Allocation	APNIC 53	Reached consensus; adopted; implemented
prop-145: Single Source for Definitions	APNIC 54	Reached consensus; adopted
prop-146: Aligning the Contrast	APNIC 54	Reached consensus; adopted
prop-147: Historical Resources Management	APNIC 54	Did not reach consensus; returned to mailing list
prop-148: Leasing of Resources is not Acceptable	APNIC 54	Did not reach consensus; returned to mailing list

APNIC 54 OPM
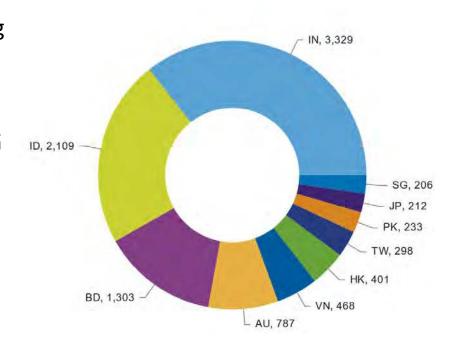
APNIC

DEVELOPMENT

RPKI

- 26 RPKI tutorials led by Community Trainers
  - Monthly economy-focused RPKI training

- Work with Members in Fiji and Philippines to clean up invalid routes

- RPKI Deployathon held with AusNOG 2022

- Three more RPKI deployment case studies

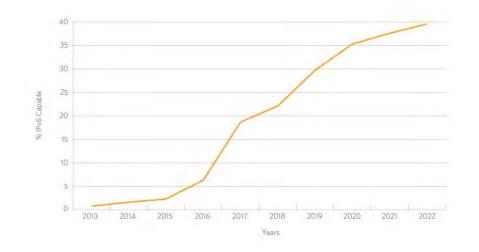- Fiji reached 99% ROA coverage and Cambodia 91% after assistance to local operators

IN, 3,329
SG, 206
JP, 212
PK, 233
TW, 298
HK, 401
VN, 468
AU, 787
BD, 1,303
ID, 2,109

IPv6

- 17 IPv6 focused training events

- 37.65% IPv6 capability for Asia Pacific

- 69.47% Members hold IPv6 resources

- 2 new deployment stories; 23 IPv6 blog posts published

- IPv6 deployment podcast with Reliance Jio

Testing, awareness key to realizing IPv6 single-stack at NTT DOCOMO
By Robbie Mitchell on 25 Apr 2022

SLTMobitel Mobile targets 100% IPv6 mobile user capability by 2024
By Robbie Mitchell on 9 Jun 2022

IPv6 capability - AP

APNIC Academy

- Instructor-led training at 30 technical events, including 11 NOGs

- Updates to five courses (network security, RPKI, DNS/DNSSEC, NMM; IPv6)

- New Open Labs (routing, Linux Basics, IPv6, DNS);

- New self-paced OSPF course; content for new Introduction to Cybersecurity and BGP self-paced courses developed

- 12 new virtual labs added

- TA provided to 10 Members across 9 economies on RPKI, DNSSEC, IXPs, IPv6, VRP, routing, reverse DNS, and ROA deployment; including via the TA platform
  - Technical support to Tonga after volcanic eruption

- 30 Volunteer Community Trainers and 6 Retained Community Trainers

	Instructor-led	Self-paced
Courses	141	2,010 completions; 4,414 contact hours
Students	3,849	8,385 new (25,795 in total)
Locations		48 economies
Virtual Labs		11,906 labs 12,125 hours
Webinars	18 webinars 1,048 attendees	

Terry Sweetser at LKNOG 6

Academy Products

Planned goals completed

- Integration with Salesforce for improved registration, case management and reporting

- Integration with Okta for better account management provisioning of eduroam, eduGAIN and social logins

- Migration of APNC's Training Wiki into the APNIC Academy platform

- Established a central repository of all training materials

- Improved mobile support for APNIC Academy and explored m-learning/mobile app support

Additional goals completed

- Improved virtual labs performance

- Improved Academy site navigation

APNIC Conferences

	APRICOT 2022	APNIC 54 (with APrIGF and APSIG)
In-person participants	-	563
Remote participants (Zoom)	886	595
Economies represented	64	69
Remote viewers (YouTube)	3,854 Hours : 870.49	2,565 Hours : 537.34
NPS	60	65

APRICOT 2022

APNIC 54

Technical Community Support

- 30 tech community events
  - 22 NOGs: Sponsorship, speakers, training and technical support
  - PC participation for 9 events
  - Supported revived LANOG

- 45 security events
  - Also provided sponsorship, speakers, training and technical support
  - 4 quarterly threat sharing community (Honeynet) events
  - Supported 4 CERTs (BtCIRT, CERT NZ, CERT Tonga, KrCERT/CC)

VNIX-NOG 2022

PacSON 2022

Internet Cooperation

Internet organization cooperation

- Chaired NRO EC and Coordination Groups (22 online meetings)

- New NRO Strategic Plan with 3 programs: RPKI, Cybersecurity and Government Engagement

- Participated in RIR, ICANN and IETF meetings

Internet governance

- IGF 2022
  - Co-organized four workshops
  - 19 meetings (MAG, IGFSA, IGFSA General Assembly, IGF Policy Network on Internet Fragmentation)

- APrIGF 2022 and APSIG 2022
  - Hosted with APNIC 54; joint Diversity and Coop SIG sessions, opening and closing plenaries
  - Staff elected as co-convenors of APrIGF PC; participated in 76 prep meetings

- Other
  - 9 IGF NRIs, incl 3 youth IGFs and 2 SIG events
  - NetThing, YIGF Viet Nam, YIGF Myanmar, 3rd ICANN/TWNIC Engagement Forum; VNNIC Internet Conference 2022
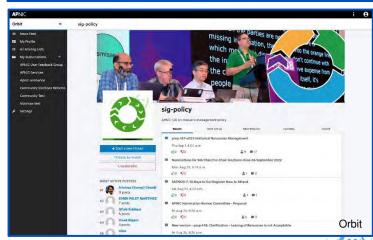
Government Engagement

- ITU – International Telecommunications Union
  - Participation at ITU PP, WTSA-20 and WTDC-21 (all in 2022)

- APT – Asia-Pacific Telecommunity
  - Prep meetings for WTDC-21, PP-22; participation at PRFP-15
  - Training with APT in MN and MM

- Presenting on IPv6 at APEC TEL 64

- MoU with PNG Department of ICT on capacity-building

- Training for LEAs in Oceania; presenting at INTERPOL events

- Attained UN accreditation as observer in OEWG informal consultations

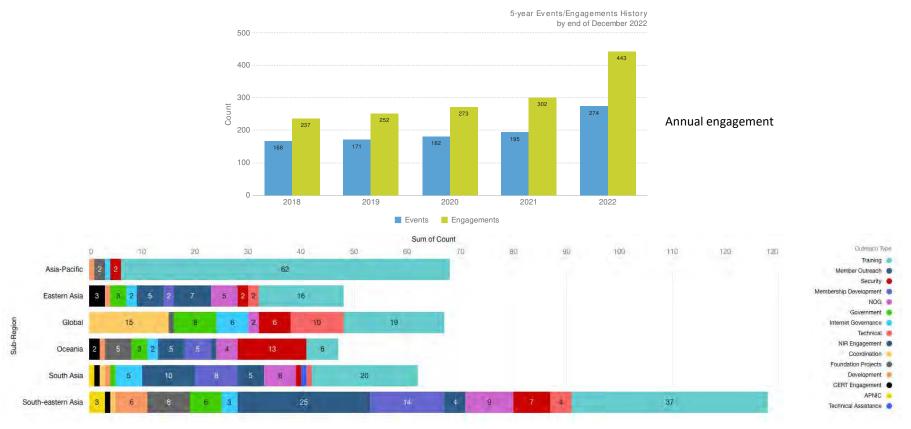# Community Participation

- 929 participants at SIG meetings

- Encouraging newcomers
  - 915 conference newcomers
  - 30 Fellows selected from 371 applicants
    - 50:50 gender balance, 37% youth
    - 92% attendance at 12 webinars
    - 11 mentors held sessions with 16 fellows
    - Graduation rate of 87%
    - NPS 100

- Community Platform – 'Orbit'
  - Built on Mailman 3 'Hyperkitty'
  - MVP launched at APNIC 54

APNIC 54 fellows

Orbit

Community Engagement

5-year Events/Engagements History
by end of December 2022

Annual engagement

2022 engagement by subregion / type
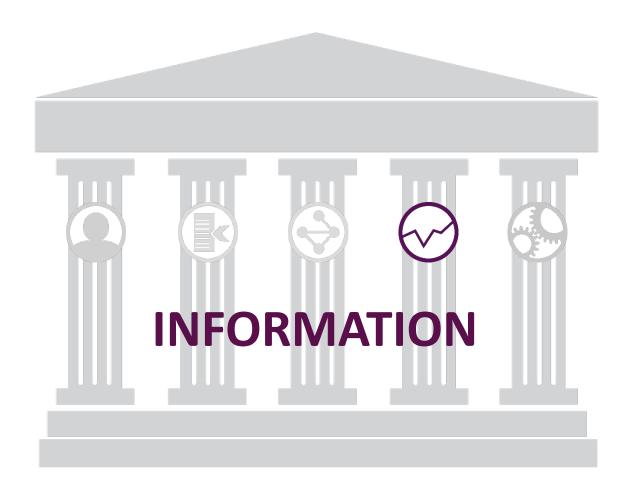
Internet Infrastructure Support

- Root servers
  - M-root deployed in Guam, Hanoi and Singapore
  - 11 in progress (Kaohsiung, Manila, Dhaka, Bangkok, Jakarta, Ulaanbaatar, Kathmandu, Mumbai, Lahore, Kolkata, and Singapore)
  - Equipment delays continue to slow deployment

- IXPs
  - MVIX launched
  - Preparations underway for IXPs in Kiribati and Timor Leste
  - Support for PKIX with route server deployment

- Community Honeynet and Threat Sharing
  - Five new partners in Bhutan, Lao PDR, and Mongolia (20 total)
  - Quarterly threat sharing meetings
  - Platform upgraded to support more sensors (100) and data processing
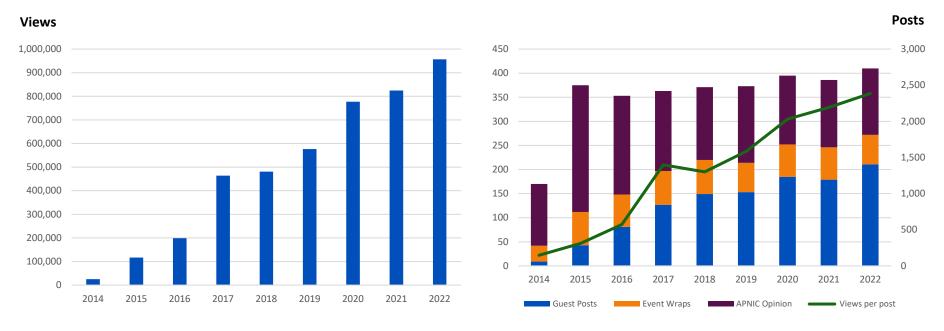
APNIC Foundation Projects 2022

Manager	Project	Budget USD	Actual USD	Utilisation
APNIC	Academy Platform and Curriculum Development	1,170,000	523,229	45%
	Training delivery & Community Trainers	1,378,001	1,044,164	76%
	Curriculum Development for non-technical Audiences	352,613	352,613	100%
	Cybersecurity: Honeynet and threat sharing	57,000	44,428	78%
	M-Root Deployment	1,366,000	318,510	23%
	Research and Internet Measurement	250,000	165,387	66%
	TOTAL	**4,573,614**	**2,448,331**	**54%**
Foundation	ISIF Asia (incl. IPv6)	2,748,000	2,373,779	86%
	Foundation Grants	250,000	187,700	75%
	SWITCH!	1,096,080	917,408	84%
	Mentoring Network – Afghanistan	240,000	159,369	66%
	Trust Discretionary Fund	250,000	281,756	113%
	Training Workshop	0	13,814	0%
	AI3 & SOI Asia	3,782,268	1,874,664	50%
	TOTAL	**8,366,348**	**5,808,491**	**69%**
TOTAL		**12,939,962**	**8,256,822**	**64%**

INFORMATION

APNIC Blog

Views

Posts

Legend: Guest Posts | Event Wraps | APNIC Opinion | Views per post

- 79,707 views/month (↑16% on 2021)

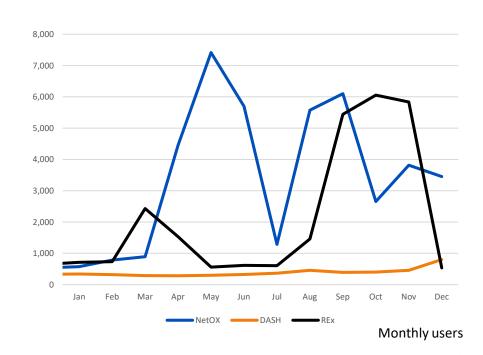- 25 podcasts with 11,907 'impactful plays'

Information Products

- ## Resource Explorer (REx)
  - Increase in new users with paid search
  - NPS 32, Usability 4.3
  - Availability: 99.99%

- ## DASH
  - NPS 71, Usability 4.4
  - Availability: 99.99%

- ## NetOX
  - NPS 57, Usability 4.6
  - Availability: 99.99%

Monthly users

Information Products

Planned roadmap goals completed

- Completed a joint APIX Survey around a benchmarking service

- Added routing and suspicious traffic alerts to DASH

- Developed a common API and backend system to provide notifications as a service for APNIC products

- Improved NetOX comparison tools

- Provided non-ASN holders access to DASH

Additional roadmap goals completed

- Added routing information pages to DASH
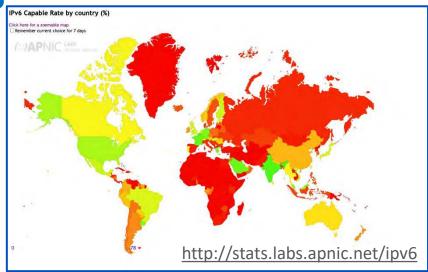
- REx user interface improvements

Roadmap goals in progress

- Expanding REx to cover global RIR delegation data and global IPv6 data

Research and Analysis

- 41 presentations at RIRs, NOGs, IETFs

- 47 blog posts and 12 podcasts

- Research
  - IPv6 capability
  - Address pools analysis
  - BGP growth and anomaly detection
  - DNS: DOH, large responses
  - QUIC measurements
  - ECN and RSA 2048-bit in DNSSEC

- Cooperation
  - Routing data for MANRS
  - DNSSEC measurements with ICANN
  - DNS measurement with Cloudflare

IPv6 Capable Rate by country (%)
Click here for a zoomable map
☐ Remember current choice for 7 days

http://stats.labs.apnic.net/ipv6

Geoff Huston at APNIC 54

CAPABILITY

Internal Infrastructure

Systems and platforms	• RPKI RRDP deployed to Cloudflare and GCP • New HSM for RPKI failover • RDNS anycast in 7 new sites • Annual DNSSEC key rollover • Mailing list migration to Mailman 3 with Okta SSO ("Orbit")
Enterprise applications and support	• Confluence migrated to Atlassian Cloud • Sage People with Okta rolled out
Internal security operations	• Achieved ISO 27001 certification • VRP and continuous penetration by HackerOne • Published DNS CAA for APNIC domains
Infrastructure security	• Email SPF and DMARC monitoring by MXToolbox • APNIC DANE TLSA improvements • Zero-trust network and server access project initiated • Authentication improvements for internal and critical systems
Network and infrastructure	• SG PoP for critical services and M-root anycast
Service availability	• 99.99% critical services; 99.99% non-critical services

APNIC

Quality and Capability

- Biannual People Pulse surveys: 82% and 83% engagement (v benchmark 76%)

- Career pathway and succession framework in development

- New HR system (Sage People) launched

- 30 roles filled
  - Open roles filled within an average 71 days
  - Extended delays to fill some technical roles

- Member Billing and Payment survey completed in September
  - 90% of respondents rating their experience as 4 or 5 (out of 5)

- Mutuality status for tax purposes renewed with Australian Tax Office

- New Whistleblower Policy (legal requirement)

- Workspace planning
  - Minor upgrades to Cordelia St and planning for new office site

Success Indicator Status

Targets	🟢	🟠	🔴
	Completed	90% complete	<90% complete
Membership	16	1	3
Registry	11	1	5
Development	40	0	11
Information	9	2	1
Capability	31	0	7
Total	78%	3%	19%

THANKS!

APNIC Secretariat Report

1 January – 31 December 2022

CONFIDENTIAL DRAFT 2.0

Contents

Figures

Tables

Executive Summary

Introduction

This report is provided to the APNIC Executive Council (EC) for the quarterly meeting on 25 February 2023. It provides a summary of activities from 1 January to 31 December 2022.

The structure of this report reflects the APNIC Strategic Plan 2020-2023 and the 2022 Activity Plan, with activities reported according to Strategic Pillar and Workstream, and against their Success Indicators.

Feedback on this report is very welcome.

Highlights

The following is a summary of significant highlights for 2022, grouped according to Strategic Pillar.

Membership

- The Helpdesk met its SLA (99.99%) and service satisfaction ratings exceeded 95% (1A.1).

- There were 268 Member Services engagements across 32 economies covering RPKI, transfers, technical assistance, and the historical resources transition. (1A.1).

- APNIC welcomed 19 IDNIC staff for three days of operational meetings (1A.1).

- All 940 feedback items from Members requiring action were resolved (1A.2).

- The User Feedback Group is now part of Orbit and has 498 members (1A.2).

- The usability score (SUS) for the APNIC website was 68/100 after improvements were made (1A.2).

- 500 (net) new Members brought total APNIC membership to 9,268 (1A.3).

- The APNIC Survey 2022 was completed, and the results were released at APNIC 54 (1A.4).

- Attempted contact with 3,377 historical resource holders, with 1,637 still unresponsive (1A.5).

- Achieved a satisfaction rating of 81% for MyAPNIC and maintained MyAPNIC availability of 99.99% (1B.1).

- The migration of more than 60,000 SSO users from Keycloak to Okta was completed (1B.1).

- Eduroam API using Okta SSO was developed and provided to the Academy team (1B.2).

- ARMS improvements included conversion of historical resource holders to Associate Members, and distinguishing between historical resource accounts from other accounts easily (1B.2).

- Of the Membership Products Roadmap goals for 2022, 13 items have been completed and 1 is in progress (1B.2).

- MyAPNIC has a new user-friendly interface and a new dashboard (1B.2).

Registry

- The percentage of Members holding IPv6 addresses reached 69.47% (2A.1).

- The IRT validation rate was 80% (2A.2).

- An NIR services API was deployed (2B.2).

- The route management pre-validation feature is pending final testing (2B.3).

- A prototype APNIC Registry API was deployed for public testing (2B.4).

- Prop-142, -143, and -144 reached consensus at APNIC 53 and were implemented. Prop-145 and -146 reached consensus at APNIC 54 (2C.1).

- Of the Registry Products Roadmap for 2022, 3 items have been completed and 3 are in progress (2B.3).

Development

- APRICOT 2022 / APNIC 53 attracted 886 participants and achieved an NPS of 60 (3A.1).

- APNIC 54 (co-located with APrIGF 2022 and APSIG 2022) attracted 1,158 participants and an NPS of 65 (3A.1).

- APNIC supported 25 technical community events and 12 security community events (sponsorship, training, tech support, presentations, and so forth) (3C.1) and (3C.2).

- The NRO EC agreed a new Strategic Plan, which includes three programs – RPKI, Cybersecurity and Government Engagement (3C.3).

- Staff participated in 22 NRO CG meetings (3C.3).

- Staff supported 11 national and sub-regional Internet governance events (3C.4) and participated in 21 engagements with governmental and intergovernmental organizations, including the ITU Plenipotentiary Conference 2022 (3C.5).

- Staff participated in 314 events, recorded 443 community engagements and 1,200 touchpoints. Staff attended 120 events (38.2%) physically (3C.6).

- 27 out of 30 fellows (87%) completed the full 2022 fellowship program. The NPS was 100 (3D.3).

- An MVP of Orbit (the new online community platform) was launched at APNIC 54. All mailing lists have been migrated to the new platform (3D.4).

- APNIC Academy added 12 new labs to its online catalogue and deployed a new version of eduroam to eligible Academy users (3E.1).

- 141 instructor-led training courses were delivered to 3,849 attendees, and 18 webinars to 1,048 attendees (3E.2).

- The Retained Community Trainer program was introduced, with six CTs recruited (3E.4).

- India (3,232), Indonesia (1,925), Bangladesh (1,205), Australia (761) and Viet Nam (421) led the economies with number of networks with ROAs (3E.6).

- IPv6 capability in the Asia Pacific reached 39.74% (3E.7).

- The number of honeypot sensors for the Community Honeynet and Security Threat Sharing Platform increased to 100 (3F.2).

- M-root was deployed in Guam, Hanoi, Kuala Lumpur, and Singapore with the M-root servers deployed in 11 locations (3F.3).

- Of the Academy Products Roadmap for 2022, 7 items were completed and 1 was deferred (3E.1).

Information

- The Blog averaged 79,707 views per month, 16% above 2021's monthly average of 68,721 (4A.1).

- Twenty-five episodes of the 'PING' Podcast were published, attracting 11,907 'impactful plays' (4A.1).

- New alerts were released in DASH; user interface improvements were deployed in REx, and a 'comparison' feature and improvements to service stability were deployed for NetOX (4A.2).

- Forty-seven APNIC Labs research articles were published, and 41 research presentations delivered (4B.3).

- Of the Information Products Roadmap, 7 items were completed, 1 is in progress and 1 was deferred (4A.3).

Capability

- New RDNS anycast nodes were deployed in 7 locations: Mumbai, Bangalore, Tokyo, Melbourne, San Jose, New Jersey, and Miami (5A.3).

- A new HSM is being configured for RPKI to allow data centre failover (5A.3).

- Successfully completed the external audit and achieved certification of ISO 27001 Information Security Management System (ISMS) (5A.4).

- Rolled out Sage People HR, with automation by internal Okta (5A.5).

- Several email system improvements were implemented including deployment of SMTP-TLS reporting, MTA-STS email standard, DKIM standard digital signature, and SFP for permitted senders (5A.6).

- A Member payments and billing survey revealed 90% of respondents rated their experience with APNIC as 4/5 (5B.2).

- The 'Glint' staff survey reported an engagement level of 83%, exceeding the global benchmark of 76% (5C.1).

- Preparations were started for the future move to new APNIC premises (5C.5).

- Recertification for ISO 9001 compliance was achieved (5D.2).

- A new Whistleblower Policy was developed and launched, and an external provider engaged (5D.2).

Budget Performance

The following table summarizes budget performance to date, for PY (staff time) allocation, and operational and capital expenditure, across all workstreams.

Pillar	Workstream	PY				Expense				Capital			
		Budget	Actual		Variance	Budget	Actual		Variance	Budget	Actual		Variance
Membership	Member Services	14.67	14.13		4%	2,989,124	2,799,996		-6%	-	-		0%
	Membership Products	9.40	8.82		-6%	1,844,666	1,665,309		-10%	-	-		0%
	Membership Reporting	0.87	1.34		54%	675,451	768,843		14%	-	-		0%
Registry	Registration Services	5.11	5.38		5%	772,183	794,949		3%	-	-		0%
	Registry Products	9.30	7.35		-21%	2,612,611	2,344,852		-10%	230,000	34,590		-85%
	Policy Development	0.75	0.71		-5%	580,881	589,891		2%	-	-		0%
Development	APNIC Conferences	4.15	4.70		13%	1,288,628	1,585,093		23%	43,000	51,197		19%
	Foundation Support	1.31	1.40		7%	264,777	- 0		-100%	-	-		0%
	Community Engagement	4.71	5.75		22%	1,692,291	1,843,022		9%	-	-		0%
	Community Participation	1.95	2.44		25%	436,317	410,275		-6%	-	-		0%
	APNIC Academy	19.58	11.93		-39%	5,079,961	4,009,932		-21%	25,000	3,217		-87%
	Internet Infrastructure Support	2.90	1.00		-66%	2,448,842	865,707		-65%	60,000	-		-100%
Information	Information Products	8.87	7.65		-14%	1,459,082	1,402,246		-4%	-	-		0%
	Research and Analysis	0.87	1.02		18%	1,076,598	925,083		-14%	123,000	93,812		-24%
Capability	Internal Technical Infrastructure	16.81	15.16		-10%	4,066,639	3,356,536		-17%	560,800	559,034		0%
	Finance and Business Services	12.09	12.59		4%	2,935,176	3,585,463		22%	40,000	61,315		53%
	Employee Experience	7.19	6.14		-15%	2,760,946	2,677,504		-3%	387,500	24,658		-94%
	Governance	1.68	2.25		34%	780,240	955,450		22%	-	-		0%
		122.21	109.75		-10%	33,764,411	30,580,151		-9%	1,469,300	827,823		-44%

Notes: ■ >5% below ■ within 5% ■ 6-25% above ■ 26-50% above ■ > 50% above variance

Table 1: Budget performance

Success Indicators

The APNIC annual plan included 138 Success Indicators representing specific goals for activities within the plan. The status of Success Indicators, at time of writing, is represented by a coloured circle as follows.

● Completed

● At least 90% complete

● Less than 90% complete

Pillar	Completed ●	90% complete ●	<90% complete ●
1. Membership	16	1	3
2. Registry	11	1	5
3. Development	40	0	11
4. Information	9	2	1
5. Capability	31	0	7
TOTAL	**107**	**4**	**27**
Percentage	78%	3%	19%

1 Membership

1A Member Services

Operations

1A.1 Member service delivery

Objective: Deliver excellence in service to APNIC Members.

Service requests SLA

- The SLA to respond to Member queries within 48 hours (two working days) has been 99.99% met.

Service satisfaction ratings

- 95% of service satisfaction ratings (749/792 requests) were either 'Excellent' or 'Above Average'.

- Follow up of all 'Poor' ratings revealed seven were submitted in error when completing the feedback form (the form was improved in January to reduce the chances of error).

- Other 'poor' ratings included eight requests that were out of scope for the APNIC Helpdesk, seven requests by Members with additional questions (all resolved), and two from historical resource holders who did not want to open an APNIC account.
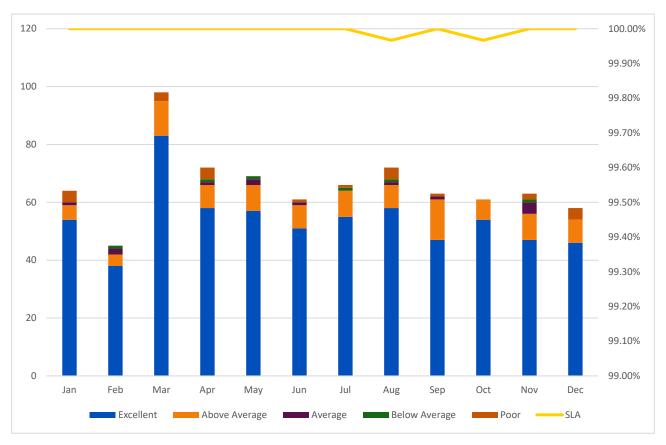
Figure 1: Service SLA and satisfaction

Member Outreach

- There were 268 Member Services engagements across 32 economies, covering RPKI, resource transfers, technical assistance, awareness of upcoming events, and the historical resources transition project. High interest from Bangladesh (consistent with the economy's growth profile) and BDNOG interactions account for its elevated touchpoint count.

- APNIC welcomed 19 members of IDNIC staff for three days of meetings in Brisbane in June and July. The meetings included discussion of registry operation, hostmaster/member services, community development, conferences, security, and product management.

- The Services team supported and participated in 96 events. Quarterly meetings were held with all NIRs, 19 delegates from IDNIC were hosted in Brisbane in June, and a workshop was conducted at IRINN's New Delhi office in November.
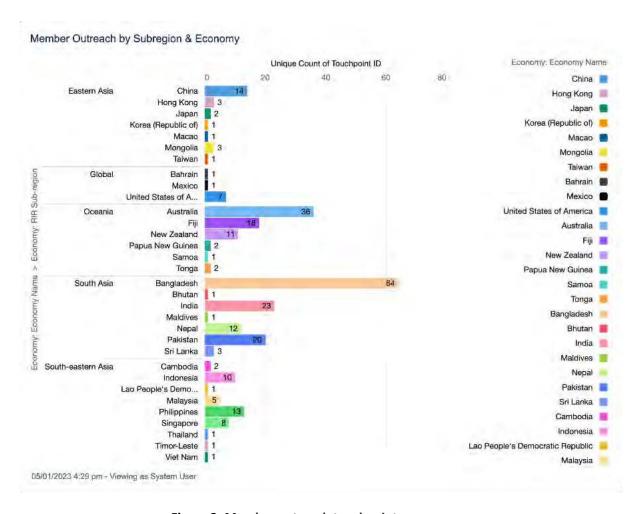
Figure 2: Member outreach touchpoints per economy

Fraud Handling

- Fraud cases remained low, with most involving attempts to open APNIC accounts with fabricated documents.

Type	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Identity theft	-	-	-	-	-	-	-	-	-	-	-	-
Fabricated documents	2	5	8	5	2	-	2	-	3	-	4	2
Fabricated needs	1	1	-	-	-	-	-	-	-	-	-	-
Total fraud cases	3	6	8	5	2	-	2	-	3	-	4	2

Table 2: Fraud cases

	Success Indicators – 1A.1.	Results	Status
1	Increase Member outreach touchpoints by at least 20% from 148 in 2021.	268 touchpoints	🟢
2	Maintain Helpdesk SLA of two business day response to enquiries.	99.99%	🟢
3	Maintain Member Service satisfaction of at least 93% "excellent and above average".	95%	🟢
4	Proactive Member service engagement in at least 47 economies.	32 economies	🔴
5	Conduct quarterly meetings with all NIRs.	4 out of 4	🟢

1A.2   Member experience

Objective: Members and the community enjoy a positive user experience and can easily provide feedback across all APNIC products and services.

Feedback Summary

- Members and the community provided 3,842 feedback items, with 940 requiring action (investigating, monitoring, or fixing the issue). All have been resolved.

- Feedback topics included suggestions to improve payments and billing, conferences, website user experience, and training.
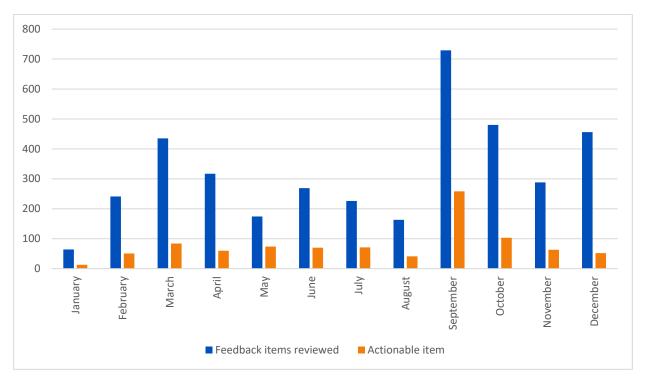
Figure 3: Feedback Received/Actionable

User Feedback

▪ Community members are encouraged to join the voluntary User Feedback Group to provide views on product development. This group is now part of Orbit and has 498 members.

▪ There have been 421 feedback engagements (user experience tests, surveys, and one-on-one interviews) with Members. Research throughout the year was conducted on APNIC website usability, payments and billing, contact management, and design improvements to the APNIC Academy.

Website Usability

▪ A baseline System Usability Scale (SUS) score of 67/100 for the website was recorded in February. After improvements to page design, content, and navigation (including mobile), the retest scored 68/100.

	Success Indicators – 1A.2.	Results	Status
1	100% of improvement suggestions are assessed and followed up.	100% resolved	🟢
2	Increase engagement with User Feedback Group at least 20% from 298 in 2021.	421 engagements	🟢
3	Achieve online System Usability Scale (SUS) score of 68/100.	68/100	🟢

1A.3   Membership development

Objective: Ensure organizations that may need APNIC products and services can discover and access them easily.

- New Member outreach was conducted at the ITCN Expo in Lahore and Karachi, PCTA in the Philippines, CommunicAsia in Singapore, bdNOG 14 in Bangladesh, SANOG 38 in Nepal, LKNOG in Colombo and APNIC 54 in Singapore.

- A total of 824 new Members joined APNIC, including six from Service Partners and 15 from Member referrals. The net new Members added (including closures and reactivations) was 500, including 150 Associate Members who joined APNIC during the historical resources transition project.
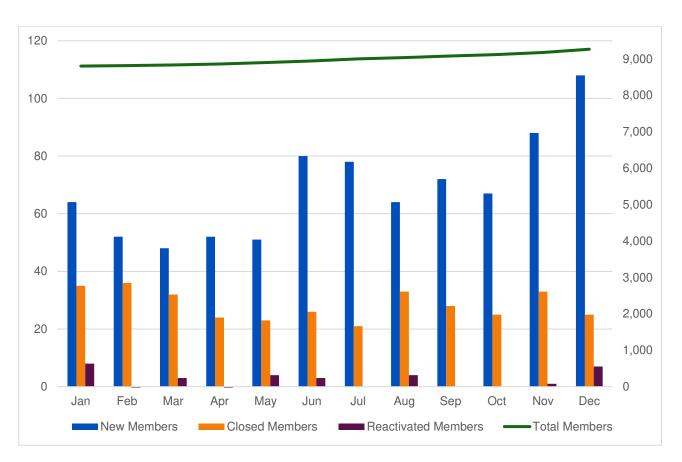
Figure 4: Membership transactions
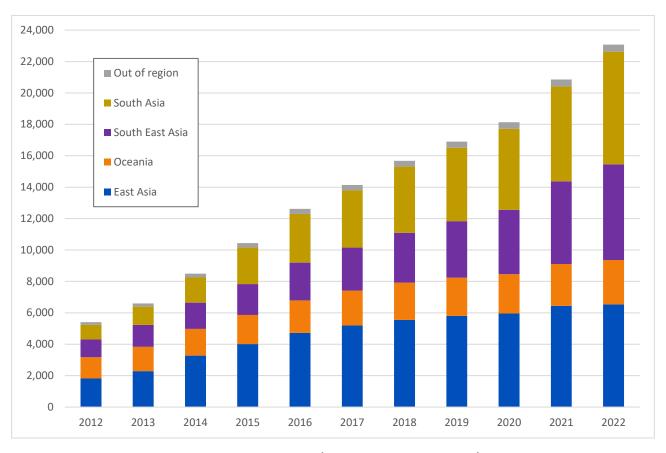
Figure 5: Total membership (APNIC + NIR, by subregion)
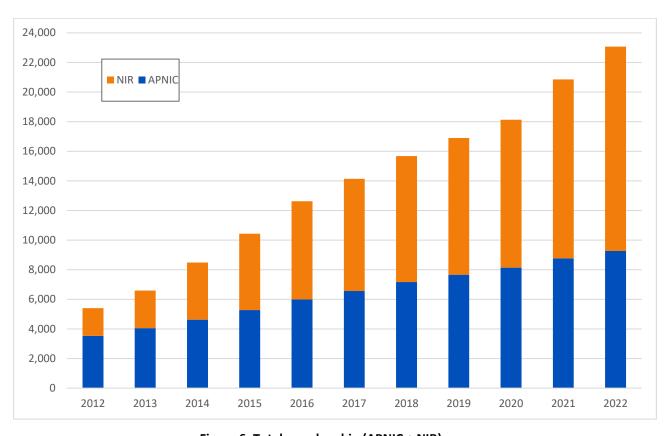
Figure 6: Total membership (APNIC + NIR)

Internet Service Provider (ISP), 3,035

Hosting/Data Centre, 2,061

Total Members: 9,268

NREN/Research network, 13
Domain name registry/Registrar, 41
Hardware vendor, 46
Internet Exchange Point (IXP), 69
Non-profit/NGO/Internet community, 8
Infrastructure (transport/hospital), 114
Industrial (construction, mining, oil), 123
Other, 204
Media/Entertainment, 234
Government/Regulator/Municipality, 337
Academic/Educational/Research, 403
Software vendor, 432

elecommunications/Mobile operator, 892

Enterprise/Manufacturing/Retail, 616
Banking/Financial, 561

Figure 7: APNIC membership by industry type

	Success Indicators – 1A.3.	Results	Status
1	At least eight membership development activities in target economies.	8 out of 8	🟢
2	Achieve at least 492 new Members (net) in 2022.	500	🟢

1A.4   APNIC Survey

Objective: Update understanding of Member and community needs, and how APNIC can best serve them.

▪ Survey interviews were completed in April. Thirty-seven interviews were conducted (24 Members, 6 stakeholders, 7 NIRs) across 26 economies.

▪ The survey questionnaire was developed and released in June (closing in July). A total of 1,622 Members and community stakeholders completed the survey, with 61% being new survey participants.

▪ The survey results report and interviews report were published and presented at APNIC 54.

	Success Indicators – 1A.4.	Results	Status
1	Increase total survey response by at least 10% from 1,624 in 2020.	1,622	🟠
2	Achieve at least 10% of responses by new survey participants.	61%	🟢

Investments

1A.5   Historical resources transition

Objective: Prepare for transition to new fee structure for Historical Resources from 1 Jan 2023.

- Reviewed and classified 7,341,824 historical IPv4 addresses, originally registered to up to 3,636 different holders, not currently managed under an APNIC account. The total number of holders reduces if multiple claims are made by the same holder.

- Contact is progressing with historical address holders to advise of the new fee structure and help them to establish APNIC membership or return the resources.

	Apr	Jul	Oct	Dec	Percentage	Addresses
Attempting to contact holders (No Response)	3,368	2,944	2,452	1,587	46.99%	2,676,480
Uncontactable holders	-	159	343	802	23.74%	1,062,144
Prefixes being claimed by holders	234	293	404	510	15.10%	1,518,080
Prefixes no longer needed	16	47	109	160	4.73%	188,416
Prefixes retained by holders	18	78	141	312	9.23%	1,871,104
Routed without authority	-	-	-	6	0.17%	25,600
Total number of holders	3,636	3,521	3,449	3,377	100%	7,341,824

Table 3: Cases of historical resource holders

	Success Indicators – 1A.5.	Results	Status
1	Attempt contact with all historical holders.	Contact attempted with 3,377	🟢
2	All 7,341,824 historical IPs are either registered to a current APNIC account or deregistered.	2,676,480 remain	🔴
3	All remaining unused resources are claimed, transferred, or returned to APNIC.	2023 completion	🔴

1B   Membership Products

Operations

1B.1   Membership product management

Objective: Provide products and services that make it easier for APNIC Members to manage their accounts.

- Achieved 81% product satisfaction for MyAPNIC.

- Resolved 310 out of 326 support cases.

▪ Supported the EC election platform at APNIC 53 for a record 1,270 participating Members, and NRO NC and SIG elections at APNIC 54 for 460 participants.

	Success Indicators – 1B.1.	Results	Status
1	Maintain MyAPNIC availability of at least 99.99%.	99.99%	🟢
2	Achieve Membership Products satisfaction of at least 80%.	81%	🟢

Investments

1B.2   Membership product development

Objective: Develop and improve products and services that make it easier for APNIC Members to manage their accounts.

Roadmap goals

Planned goals completed

▪ Implement a new eduroam API

    ▪ An eduroam API using the Okta SSO was deployed.

▪ Develop an internal LDC graduation process

    ▪ Aspects of the Least Developed Country (LDC) graduation process were automated to eliminate human error.

▪ Add automated workflow to support the historical resources transition project

    ▪ Updated ARMS and billing processes to allow historical resource holders to convert to Associate Members. Added functionality to allow Helpdesk staff to easily distinguish historical resource holding accounts.

▪ Improve the quality and workflow of 'Invalid Contact' reports

    ▪ Streamlined the 'Invalid Whois Contact' reporting process by providing an instant feedback mechanism for information validated on the form.

▪ Overhaul MyAPNIC information architecture

    ▪ Deployed information architecture changes to allow Members to easily locate and complete tasks.

    ▪ New profile page allows users to manage additional profile data and control where the data is displayed.

▪ Improve voting eligibility checks

    ▪ Created past event visibility for APNIC Login users to check SIG voting eligibility and improved profile management functionality.

▪ Implement a new MyAPNIC dashboard

    ▪ New interface developed with additional widgets and tools.

▪ Improve MyAPNIC audit and activity logs for corporate contacts

    ▪ Improvements complete.

- Automatically link eligible contacts to MyAPNIC

    - Updates completed.

Additional goals completed

- Upgrade APNIC Login

    - The migration of more than 60,000 APNIC Login SSO users from Keycloak to Okta was completed. Updated the Okta configuration to improve security workflows and reporting.

- Improve Help Centre articles

    - Usability of Help Centre articles was improved by adding visual indicators to distinguish between article types.

- Improve EC election proxy appointment feature

    - Reduced EC election proxy voting time from 90 seconds to 20 seconds (78% improvement).

- Improve MyAPNIC process to change an organization's name

    - Streamlined the Member organization name change process name by automating several steps.

Goals in progress

- Improve MyAPNIC contact management

    - Improving the way Members manage account contacts and updating data model for authenticating users. Deploying mandatory 2FA.

Goals deferred

- None.

	Success Indicators – 1B.2.	Results	Status
1	Achieve all 2022 goals, according to the Membership Products Roadmap.	13 completed 1 in progress 0 deferred	🟢

1C   Membership Reporting

Operations

1C.1   Planning and reporting

Objective: Ensure that APNIC remains fully accountable to its Members by providing timely, complete, and accurate information about all activities.

- The 2022 Activity Plan and Budget and the 2021 Annual Report were presented at the APNIC AGM on 3 March and published online. The Secretariat Report update was presented at the AMM on 15 September.

- The 2023 Activity Plan and Budget was approved by the EC at its December meeting.

- All EC Minutes have been published in line with the KPI.

- A public webpage tracking progress against 2022 activities was published and updated.

	Success Indicators – 1C.1.	Results	Status
1	Publish required reports on the day of the APNIC Member Meetings.	Achieved	🟢
2	Publish EC Minutes within two months of each EC meeting.	Achieved	🟢

2   Registry

2A   Registration Services

Operations

2A.1   IPv4, IPv6 and ASN delegation and registration services

Objective: Provide IPv4, IPv6 and ASN delegation and registration services to APNIC Members.

Resource pools

- The following table shows the status of all APNIC number resource pools.

	Total at 1 Jan 2022	From IANA	Transfers in	Transfers out	Total at 31 Dec 2022	Total delegated	Total reserved	Total available
IPv4 (/24s)	3,483,932	0	2,211	3,911	3,482,232	3,465,983	5,911	10,338
IPv6 (/32s)	1,067,008	0	0	0	1,067,008	103,088	109,815	854,105
ASNs	29,336	0	3	2	29,337	27,391	0	1,946

Table 4: Resource pool status

IPv4 pool status

- The following chart shows the consumption trend of APNIC's IPv4 pool in the past 12 months.
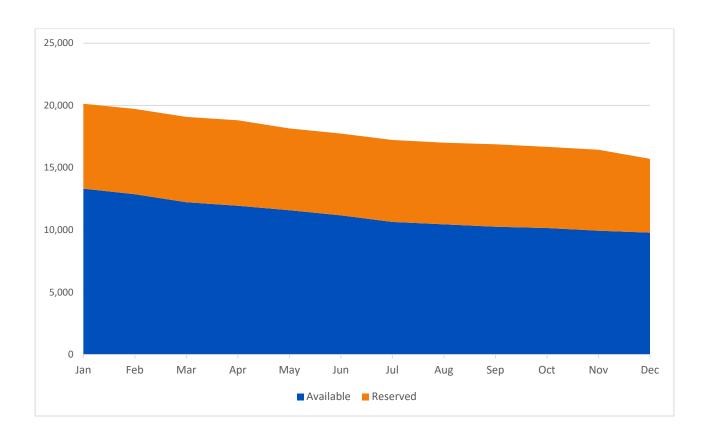
Figure 8: IPv4 pool status (/24s)

IPv4, IPv6 and ASN delegations

- The following graphs show the number of delegations for each resource type by sub-region.

- In Figure 9, the peak in March 2022 was due to large number of IPv4 delegations made by the NIR in India (IRINN). From August, all new requests for IPv4 delegations by IRINN were forwarded to APNIC for review (second opinion).
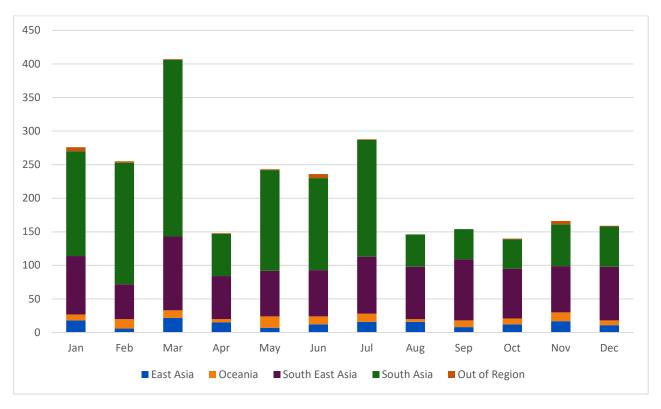
Figure 9: IPv4 delegations by sub-region
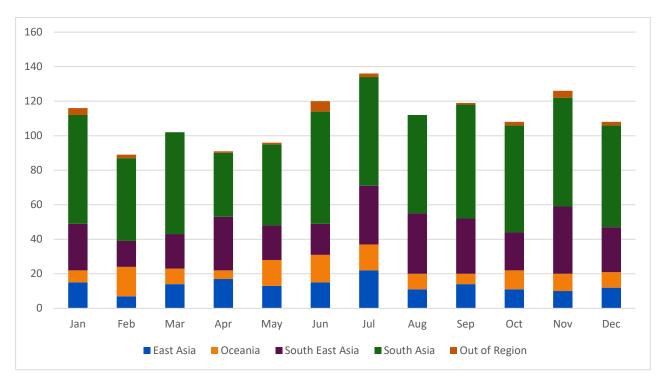
Figure 10: IPv6 delegations by sub-region
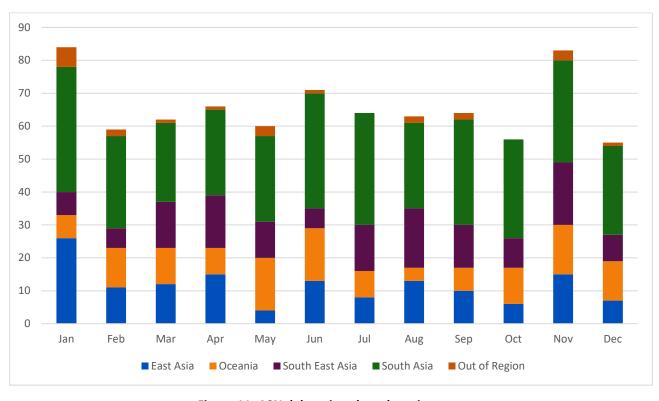
Figure 11: ASN delegations by sub-region
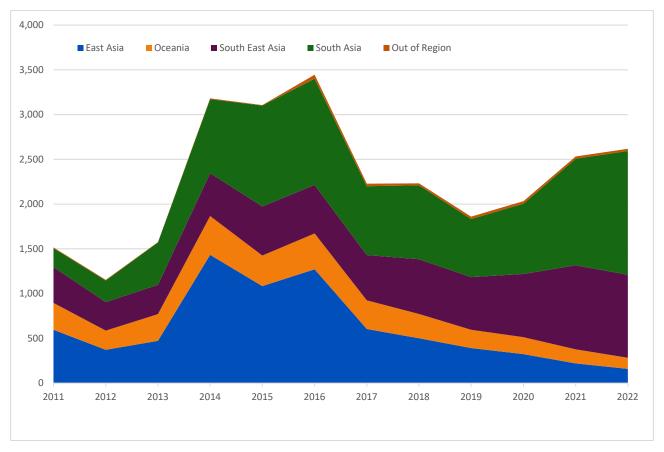
Figure 12: Annual IPv4 delegations
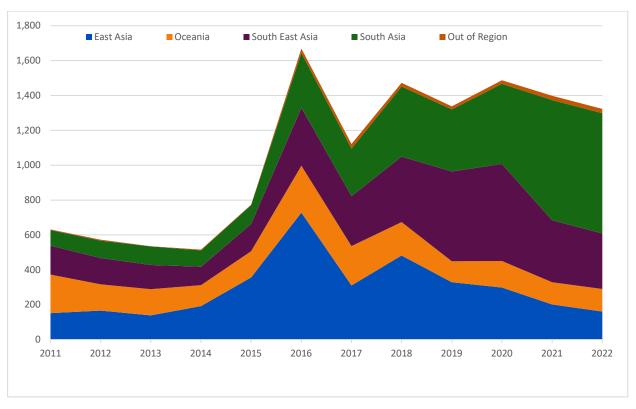
Figure 13: Annual IPv6 delegations

- In Figure 14, the peak in ASN delegations in 2021 was due to large allocations to Education and Research networks in China and India.
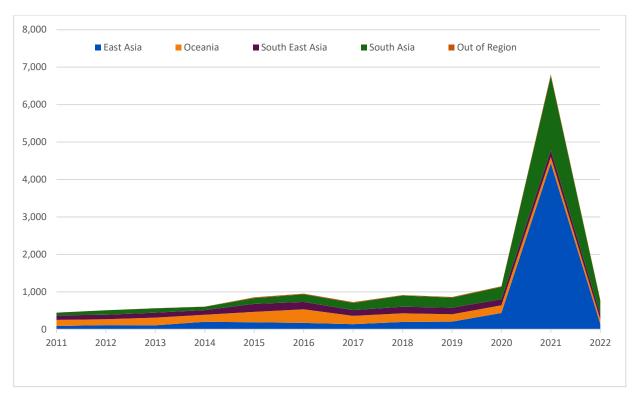
Figure 14: Annual ASN delegations

Member resource holdings

- The percentage of Members holding IPv6 reached 69.47% on 31 December 2022, up from 68.43% on 31 December 2021. The proportion of APNIC Members holding specific resource types is illustrated below.
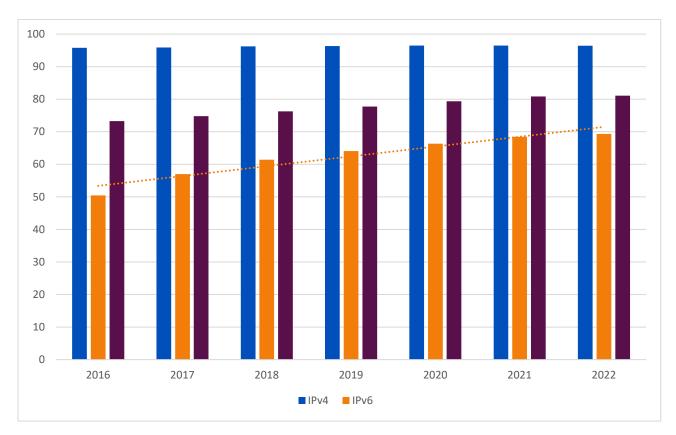
Figure 15: Member resource type holdings

IPv4 transfers: Mergers/acquisitions and historical

- A Singapore Member merged its accounts in December resulting in a large M&A transfer.

- The number of historical transfers increased in second half year due to the historical resources transition project.
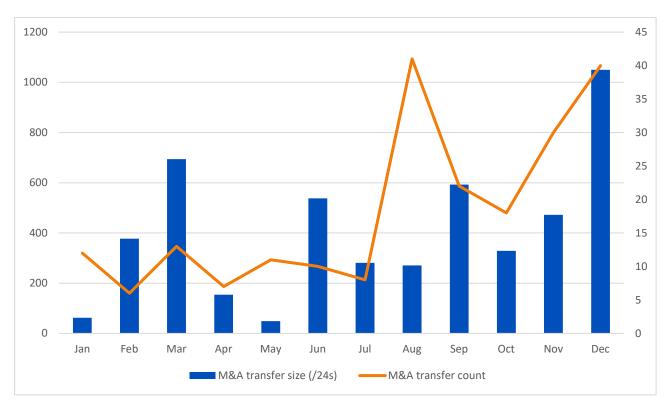
Figure 16: M&A and historical transfers

IPv4 market transfers

▪ A Member in China made a large transfer between its accounts in April 2022.
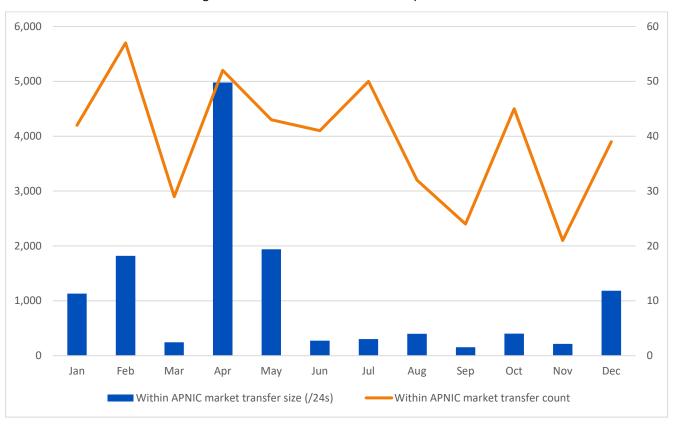
Figure 17: Market transfers within APNIC

Market transfers: Inter-RIR

▪ A large inter-RIR transfer from RIPE NCC to a CNNIC member occurred in June 2022 and a large transfer from an Indonesian Member to ARIN occurred in August 2022.

Figure 18: Inter-RIR IPv4 transfers

	Success Indicators – 2A.1.	Results	Status
1	Maintain Registration Services SLA of two business day response to enquiries.	99.99% achieved	🟢
2	Increase percentage of Members holding IPv6 address space to at least 70% from 68%.	69.47%	🟠

2A.2   Maintain correct and current registry data

Objective: Ensure registry data is comprehensive, current, and correct.

▪ Improvements were made to IRT validation under Prop-125:

  o Members with invalid IRT objects were identified and assisted with completing their validation.

  o 7,946 of 9,939 active accounts have a validated IRT object — a validation rate of 80%.

▪ Identifier Technical Health Indicators (ITHI)

  ▪ Under ITHI, number registry data accuracy is measured as Comprehensive, Correct, and Current. The following are the measurements for resources managed by APNIC, excluding NIRs.

  ▪ Comprehensive:

    • APNIC resources accounted for in the NRO extended delegation statistics: 100%.

    • APNIC resources not duplicated in the NRO extended delegation statistics: 100%.

- Resource registration completeness:
  - Legal name (org object) (weight 25%)
  - Legal address (org object) (weight 25%)
  - Point of contact (IRT) (weight 50%)

Type of Record	Number of records	Score	% of total records
Have a parent block with org object and IRT	39,227	100	89.8%
Have no org object and no IRT	3,575	0	8.1%
Have IRT but no org object	859	50	1.9%
Have org object but no IRT	2	50	.0004%

Table 5: ITHI measurement: 'Comprehensive'

o Correct:

- Measurement 1: Member has confirmed their details as correct and created an org object (50%).
- Measurement 2: Validated the IRT within the last 12 months (50%).

Type of Record	Number of records	Score	% of total records
Have a parent block with org object and validated IRT	31,823	100	73.5%
Have org object but no validated IRT	7,406	50	16%
Have no org object and no validated IRT	4,039	0	9.5 %
Have validated IRT but no org object	395	50	1%

Table 6: ITHI measurement: 'Correct'

o Current (to be implemented later)

	Success Indicators – 2A.2.	Results	Status
1	Comply with ITHI reporting requirements.	2 out of 3 implemented	🔴
2	Increase validation of registration records to at least 85% from 76%.	80%	🔴

2B   **Registry Products**

Operations

2B.1   **Internet number registry management**

Objective: Register address space allocations and assignments to ensure uniqueness and provide information for Internet troubleshooting at all levels.

NIR API

- An API to assist NIR resource administration and registry accuracy was deployed in an external test environment in Q1, and into beta-test production in Q2.

	Success Indicators – 2B.1.	Results	Status
1	Maintain APNIC Registry Management System (ARMS) availability of at least 99.99%.	99.99%	🟢

2B.2   **Registry product management**

Objective: Provide essential registry products and services to help network operators maintain a secure, available, and stable Internet.

RDAP

- APNIC's RDAP service was updated to comply with the RIR RDAP profile.

RPKI

- The validity period for manifests and CRLs in the APNIC repository was increased from two to seven days to provide more time for rectification in case of error.

	Success Indicators – 2B.2.	Results	Status
1	Maintain whois, RDAP, RPKI, RDNS and IRR availability of at least 99.99%.	99.99%	🟢
2	Update APNIC RDAP to comply with the RIR RDAP profile.	Completed	🟢
3	Migrate RDNS API services to CentOS 7.	Scheduled for Q4 2023	🔴

Investments

2B.3   **Registry product development**

Objective: Develop and improve essential registry products and services.

Roadmap Goals

Planned goals completed

▪ Improve ROA deletion and recreation process for transfers

    ▪ ROA transition during transfer is now supported.

Additional goals completed

▪ New transfer log for prop-142 implementation

    ▪ Published a new transfer log, including data about transfer types that was not available in existing reports.

▪ MyAPNIC Resource Manager Restyling

    ▪ Resource management components were fully integrated into the new MyAPNIC portal.

Goals in progress

▪ Update authorization mechanisms for whois

    ▪ Final testing of whois and MyAPNIC work nearing conclusion. Expected completion Q1 2023.

▪ Improve ASN delegation identity in whois and MyAPNIC

    ▪ Core service and customer management functionality completed, with ASN management work in progress. Expected completion Q1 2023.

    ▪ Pre-validate all RPKI changes to avoid errors

▪ Route management pre-validation tested successfully and final UX review changes underway. Expected completion Q1 2023.

Goals deferred

▪ None.

	Success Indicators – 2B.3.	Results	Status
1	Achieve all 2022 goals, according to the Registry Products Roadmap.	3 completed 3 in progress 0 deferred	🔴

2B.4   Registry re-architecture

Objective: Improve security, reliability, and efficiency of the APNIC registry, and facilitate easier development of future registry services and functions required by the community.

▪ A prototype of the APNIC Registry API was deployed for public testing and promoted at APRICOT 2022, with production development scheduled to start in Q1 2023.

Success Indicators – 2B.4.	Results	Status

1	Progress development of a Registry API with a completion target of 2023.	Development milestones achieved	🟢
2	Progress reimplementation of the internal registry in Java with a completion target of 2023.	Deferred to 2023	🔴

2B.5   Readiness for Five-9s Availability for Highly Critical Services

Objective: Define 'highly critical services' and prepare for 99.999% availability for these services.

▪ Services such as RPKI, whois, RDAP and reverse DNS were identified as 'highly critical services'.

▪ An external consultant has completed a gap analysis for the RPKI service.

Success Indicators – 2B.5.	Results	Status
1 Achieve readiness to implement by end of 2022.	Completed	🟢

2C   Policy development

Operations

2C.1   Policy development

Objective: Ensure resource policies in the APNIC region are developed in line with the community-agreed PDP.

APNIC 53

▪ Three policy proposals were considered at the APNIC 53 Open Policy Meeting (OPM). All reached consensus in the OPM and AGM:

  ▪ prop-142: Unify Transfers Policies Text

  ▪ prop-143: ASN to Customer

  ▪ prop-144: Experimental Proposal Allocation

▪ A summary of the proposals was published in eight languages.

▪ prop-141 (Change maximum delegation size of IPv4 address from 512 (/23) to 768 (/23+/24) addresses) was presented for discussion only and not put to the community for consensus.

▪ Following the meeting, the comment period for prop-142, -143, and -144 closed with no objections raised and the policies were endorsed by the APNIC EC for adoption.

APNIC 54

▪ Four policy proposals were considered at the APNIC 54 Open Policy Meeting (OPM). Two reached consensus in the OPM and AMM:

  ▪ prop-145: Single Source for Definitions

  ▪ prop-146: Aligning the Contrast

▪ Two proposals did not reach consensus and were returned to the author and mailing list for further discussion:

- - prop-147: Historical Resources Management

  - prop-148: Leasing of Resources is not Acceptable

- A summary of the proposals was published in eight languages.

- Following the meeting, the comment period for prop-145, and -146 closed with no objections raised and the policies were endorsed by the APNIC EC for adoption.

Other

- Staff participated in the IRINN OPM and TWNIC OPM in May.

	Success Indicators – 2C.1.	Results	Status
1	Achieve SIG Chair Support satisfaction of at least 6/7.	6.8 out of 7	●
2	Achieve PDP satisfaction of at least 5.75/7 in the APNIC Survey.	6.16	●
3	Participate in all NIR OPMs.	2 out of 2	●

2C.2 Policy implementation

Objective: Implement APNIC resource policies in a neutral manner consistent with agreed processes, timings, and community expectations.

- Prop-142, -143, and -144 were implemented. Prop-142 required extensive internal updates to properly log each of the transfer types, along with a detailed review/adjustment of the new log to ensure consistency with the previous log.

	Success Indicators – 2C.2.	Results	Status
1	Meet 100% of implementation timelines.	100% met	●

2C.3 Policy analysis

Objective: Provide neutral policy advice and impact analysis to help the APNIC community make informed policy decisions.

- Impact assessments of the policy proposals discussed at APNIC 53 and 54 were published on the Policy SIG mailing list.

	Success Indicators – 2C.3.	Results	Status
1	Publish a policy proposals analysis before each Open Policy Meeting (OPM).	2 out of 2 published	●

3   Development

3A   APNIC Conferences

Operations

3A.1   APNIC conferences

Objective: Provide two conferences each year for the APNIC community to learn, share ideas and experiences, build relationships, and develop Internet policy.

APRICOT 2022 / APNIC 53

▪   APRICOT 2022 was held online from 21 February to 3 March 2022.

Conference statistics	
Total number of remote participants (Zoom)	886
Economies represented	64
Remote viewers – YouTube	3,854 views; 870.49 hours
#apricot2022 tweets	210 from 114 users

Table 7: APRICOT 2021 statistics

▪   The tutorial week from 21 to 25 February attracted 519 attendees, with 502 attending the conference from 28 February to 3 March.

▪   At the APNIC EC election, Sumon Ahmed Sabir (4,084 votes), Kams Sze Yeung (3,238 votes), and Achie Atienza (3,057 votes) were elected for two-year terms.

▪   Other Internet community events held at APRICOT 2022 included the DotAsia AGM, APIX meeting, AP* Retreat, and APNG Camp 15.

▪   The delegate survey Net Promoter Score (NPS) was 60.

APNIC 54

▪   APNIC 54 was held in a hybrid format, at the Grand Hyatt in Singapore and online, from 8 to 15 September 2022.

Conference statistics	
In-person participants	563
Remote participations (Zoom)	595
Total number of participants	1,158
Economies represented	69
Remote viewers – YouTube	2,565 views; 537.34 hours
#apnic54 tweets	636 from 119 users

Table 8: APNIC 54 statistics

▪ The conference was co-located with APrIGF 2022 and APSIG 2022, with SGNOG 9 held nearby.

▪ A revised program structure was developed to suit both online and face-to-face audiences.

▪ The delegate survey Net Promoter Score (NPS) was 65.

	Success Indicators – 3A.1.	Results	Status
1	Achieve total attendance of 1,200 (face-to-face and online) across two conferences.	2,044	🟢
2	Achieve participant satisfaction of at least 90% at each conference.	96% and 95%	🟢
3	Achieve Net Promoter Score of at least 50 at each conference.	NPS 60 and 65	🟢

3B   Foundation support

Investments

3B.1   Operational and administrative support

Objective: Provide support to the Foundation under the AoC of 2018.

▪ Nine positions were seconded from APNIC, under full funding by the Foundation.

▪ APNIC staff (from Finance, People and Productivity and Infrastructure and Development) continued to provide support on an as-needed basis.

▪ Ongoing hosting and technical support continues for administrative, project, and financial platforms.

▪ APNIC continues to recover technical support and staff costs from the Foundation.

3C   Community Engagement

Operations

3C.1   Technical community support

Objective: Participate in, and encourage the development of, a healthy Asia Pacific technical community.

Technical community events

Month	Event	Location	Sponsor	MC/PC	Talk/Panel	Training	Tech Support	Participation
Jan	JANOG 49	EA	✓					
Mar	APAN 53	SA	✓	✓	✓	✓		✓
Mar	MMIX AGM & Peering Forum 2022	SEA			✓		✓	✓
Mar	vPhNOG3	SEA		✓		✓	✓	✓
Apr	AusNOG 2021	OC		✓				✓
Apr	PCTA e-Tech Show 2022	SEA				✓		✓
May	BKNIX Peering Forum 2022	SEA	✓			✓		✓
May	INNOG 5	SA		✓		✓	✓	✓
May	37th TWfNIC OPM	EA			✓			✓
May	NZNOG	OC				✓		✓
Jun	bdNOG 14	SA	✓			✓		✓
Jul	PhNOG 2022	SEA	✓	✓		✓		✓
Jul	JANOG 50	EA	✓					✓
Jul	SANOG 38	SA	✓	✓	✓	✓		✓
Jul	IDNOG 7	SEA	✓	✓	✓	✓		✓
Aug	PacNOG30	OC	✓			✓		✓
Aug	APAN 54	EA				✓		✓
Aug	AusNOG 2022	OC					✓	✓
Sep	SGNOG 9	SEA	✓					✓
Sep	MyNOG 9	SEA	✓		✓			✓
Oct	VNIX-NOG	SEA			✓	✓		✓
Oct	btNOG 9	SA	✓	✓		✓		✓
Oct	HKNOG 11.0	EA	✓	✓	✓			✓
Oct	USAID PCTA Connectivity & Cybersecurity Conference	SEA				✓		✓
Oct	mnNOG 4	EA	✓		✓	✓		✓
Nov	LKNOG 6	SA	✓		✓	✓		✓
Nov	KHNOG 4	SEA	✓		✓	✓	✓	✓
Nov	TWNIC 38th OPM	EA				✓		✓
Dec	bdNOG 15	SA	✓		✓	✓		✓
Dec	LANOG mini-event	SEA	✓		✓			✓

Table 9: Technical community events

	Success Indicators – 3C.1.	Results	Status
1	Support at least 30 technical community events (opportunity permitting).	30 out of 30	🟢
2	Support at least one new/revived NOG in two sub-regions (if required).	1 supported	🟢

3C.2   Security community support

Objective: Increase collaboration and build trust with the security community and increase awareness around relevant security issues.

Security community event support

Month	Event	Location	Type	Sponsor	MC/PC	Talk/Panel	Training	Tech Support	Participation
Jan	MyFinTech Week 2022	SEA	Security Community			✓			
Feb	M3AAWG 54th General Meeting	Global	Security Community					✓	
Mar	Indonesia Honeynet Project Workshop	ID	Security Community				✓		
Feb	APRICOT 2022	Asia Pacific	Technical Community			✓			
Feb	APNIC 53 NIR Workshop	Asia Pacific	Other				✓		
Mar	PacSON Virtual Webinar	OC	CERT/CSIRT Community			✓			
Mar	APAN 53	Asia Pacific	Technical Community		✓	✓		✓	
Mar	KHNOG 4	KH	NOG				✓		
Apr	BrisSEC 2022	AU	Security Community					✓	
Apr	ELK Stack for Security Monitoring	MY	Technical Community				✓		
May	AusCERT Conference	AU	Security Community		✓	✓			
May	RISE Indonesia	ID	Security Community	✓					
May	Cyber Safety Pasifika Content Creation/Update Workshop	OC	Government			✓			
May	Cyber Safety Pasifika Webinar on Threat Landscape	OC	Government			✓			
May	INTERPOL Webinar on Digital Piracy	Global	Government			✓			
May	3rd ICANN APAC TWNIC Engagement	Asia Pacific	Internet Governance			✓			

	Forum (37th TWNIC OPM)								
Jun	M3AAWG 55th General Meeting	Global	Security Community					✓	
Jun	FIRST Annual Conference	Global	Security Community					✓	
Jun	Telekom Malaysia Cyber Security Seminar	MY	Security Community			✓			
Jul	UNODC Seminar on Ransomware	OC	Security Community			✓			
Jul	Bside Brisbane 2022	AU	Security Community					✓	
Aug	APAN 54	Asia Pacific	Technical Community	✓	✓				
Aug	Cyber Safety Pasifika (CSP) Tier 2*	OC	Government		✓				
Sept	APNIC 54 (Security Track)	Asia Pacific	Technical Community		✓		✓		
Sept	ICANN 75 AGM	Global	Internet Governance					✓	
Sept	CrikeyCon 8	AU	Security Community					✓	
Sept	PacSON*	OC	CERT/CSIRT Community					✓	
Sept	ThreatCon 2022	NP	Security Community					✓	
Sept	DFRWA APAC	Asia Pacific	Security Community	✓		✓			
Oct	MNSEC Annual Conference*	MN	CERT/CSIRT Community	✓		✓			
Oct	Indonesia AcadCSIRT	ID	CERT/CSIRT Community			✓			
Oct	APCERT AGM; FIRST Regional Symposia (APAC)	Asia Pacific	CERT/CSIRT Community					✓	
Oct	mnNOG	MN	NOG			✓	✓		
Nov	NZITF 2022	NZ	Security Community			✓			
Nov	KISA APISC Workshop*	KR	CERT/CSIRT Community					✓	
Nov	FNU Cybersecurity Awareness Month*	FJ	Security Community			✓			
Nov	University Malaysia Sabah Cyber Awareness Webinar	MY	Security Community				✓		
Nov	Samoa IT Association Expo*	WS	Security Community					✓	
Nov	PTSEF	OC	CERT/CSIRT Community					✓	
Nov	IDNIC Security Engagement	ID	Security Community						✓

Dec	TWNIC OPM*	TW	CERT/CSIRT Community						✓	
Dec	bTCIRT Security Bootcamp	BT	CERT/CSIRT Community							✓
Dec	CNCERT International Partnership Conference*	CN	CERT/CSIRT Community						✓	
Dec	Malaysia Cybersecurity Camp 2022*	MY	Security Community							✓

Table 10: Security community event support

- Support was provided to btCIRT, CERT NZ, CERT Tonga and KrCERT/CC for various activities.

	Success Indicators – 3C.2.	Results	Status
1	Support at least 12 security community events (opportunity permitting).	22 events	🟢
2	Support development of at least four new or existing CERTs/CSIRTs (if needed).	4 out of 4	🟢
3	Organize quarterly threat sharing community events.	4 out of 4	🟢

3C.3   Internet organization cooperation

Objective: Seek opportunities to strengthen collaboration with other regional and global Internet organizations.

NRO and RIRs

- APNIC has been responsible for Chairing the NRO EC and Coordination Groups (CGs) during 2022.

- The NRO EC held strategic planning meetings in Dubai in February and Miami in June.

- The NRO EC agreed on a new NRO Strategic Plan, which includes three programs: RPKI, Cybersecurity and Government Engagement.

- Support and advice have been provided to AFRINIC (via the NRO and directly) across operations, legal, finance, government engagement, and communications.

- Staff participated in 22 NRO CG meetings: NRO EC (8), ECG (3), PSCG (3), PACG (2), RSCG (3), and CCG (3).

- Staff participated in ARIN 49 (USA), RIPE 84 (Germany), AIS '22/AFRINIC 35 (Mauritius), ARIN 50 (USA) and RIPE 85 (Serbia).

- The Internet Technical Success Factors study commissioned by APNIC and LACNIC in 2021 was featured at the APNIC 53 Cooperation SIG. It was also promoted at the IGF 2022, 37th TWNIC OPM, PITA Business Forum and Exposition 2022, and at a workshop with the auDA Board and Executive Team.

I* (ICANN, ISOC, IETF, ITCG)

APNIC staff participated in the following:

- Seven Internet Technical Collaboration Group (ITCG) calls.

- Four OECD ITAC calls to coordinate work on an OECD draft document on routing and DNS security, and to prepare for a Ministerial Conference on the Digital Economy in December.

- ICANN 73, 74 and 75. Paul Wilson spoke at the opening ceremony of ICANN 75 alongside Eddy Kayihura from AFRINIC.

- IETF 113 and IETF 114. Staff are also co-authoring drafts in the IETF SIDROPS (RPKI) and REGEXT (RDAP) working groups.

	Success Indicators – 3C.3.	Results	Status
1	Ensure APNIC is represented in all NRO EC and 'I-Star' coordination meetings.	6 out of 6	🟢
2	Participate in all RIR Open Policy Meetings.	7 out of 8	🔴

3C.4   Internet governance participation

Objective: Engage the community to strengthen open, multistakeholder, bottom-up and transparent Internet governance processes.

IGF

- Staff co-organized and participated in four workshops at the IGF 2022 — three workshops on Internet sanctions and Internet fragmentation, and one workshop on capacity building.

- Staff participated in eight Multistakeholder Advisory Group (MAG) meetings, including the first and second Open Consultations for IGF 2022, two meetings of the IGF Policy Network on Internet Fragmentation, nine IGF Support Association (IGFSA) Executive Committee Meetings, and the IGFSA General Assembly.

APrIGF

- APrIGF 2022 and APSIG 2022 was co-located with APNIC 54 in Singapore in September. Staff participated in two joint sessions (Cooperation SIG and Diversity in Tech) and the APrIGF 2022 Opening and Closing Plenaries.

- Staff were elected as co-convenors of the APrIGF Program Committee (PC) and Stakeholder Engagement Committee (SEC) and participated in 17 APrIGF Multistakeholder Steering Group (MSG) meetings, 25 PC meetings, and seven SEC meetings.

- Staff are also members of the Events Committee (EC) and Fellowship Committee (FC) and participated in 15 EC and 12 FC meetings.

- Eight APrIGF planning meetings were convened with the community.

Sub-regional and economy-level IGFs

- Staff presented remotely at the YIGF Vietnam, YIGF Myanmar, and 3rd ICANN APAC TWNIC Engagement Forum (37th TWNIC OPM).

- Staff attended the VNNIC Internet Conference 2022 in Viet Nam and facilitated a youth Internet governance workshop with VNNIC.

- Staff attended the Youth IGF India 2022 and inSIG 2022 and facilitated role playing sessions on Internet networking and a cyber incident.

- Staff participated in NetThing (Australia) 2022 and co-organized a hybrid session at the University of Queensland. Staff also contributed to the NetThing Steering Committee.

- Staff helped organize the Asia Pacific Internet Governance Academy (APIGA) 2022 and APSIG 2022.

	Success Indicators – 3C.4.	Results	Status
1	Organize at least three workshop proposals at APrIGF 2022.	Co-hosted conference	🟢
2	Support at least five national or sub-regional Internet governance events.	11 events	🟢

3C.5   Government engagement

Objective: Build and maintain meaningful relationships between APNIC and government and public safety agencies in the region.

Intergovernmental forums

- ITU

    - Staff participated in the ITU WTSA-20, ITU Interregional Meeting for WTSA-20 (IRM), TSAG and ITU Plenipotentiary Conference 2022.

    - Staff participated in WTDC-21 proceedings remotely.

    - Discussions continue with the ITU Regional Office on two projects in the Pacific related to cybersecurity and technical training for women and diverse communities.

- APT

    - Staff participated in two APT Preparatory Meetings for WTDC-21 remotely, and three preparatory meetings (one remote) for ITU-PP.

    - Staff participated in the 15th APT Policy and Regulation Forum Pacific (PRFP-15).

    - Remote training was provided to two APT member states (Mongolia in June and Myanmar in July) in collaboration with the APT Secretariat.

- OECD

    - Staff monitored the 6th Session of the Working Party on Security in the Digital Economy.

- APEC TEL

    - Staff presented on IPv6 and participated remotely in APEC TEL 64.

- Other

    - Staff monitored discussions at the UN Open Ended Working Group (OEWG) informal consultations, including the virtual informal dialogue with the Chair of the OEWG ICTs (2021-2025) and the intersessional meeting of the OEWG ICTs (2021-2025). APNIC obtained UN accreditation to become an observer in this process.

Bilateral government engagement

- Advice was provided to the Australian and Japanese governments in ITU and APT meetings, and to the Singapore government on Internet governance matters.

- Staff met with government representatives from Papua New Guinea and Australia to follow up on capacity building projects. An MoU to collaborate with the PNG Department of ICT on capacity building was signed.

Law Enforcement and Public Safety

- Staff met with AFP representatives from Cyber Safety Pasifika to organize LEA training for 2022 and participated in the Cyber Safety Pasifika Scholarship peer group mentoring.

- Staff delivered a webinar on the Cyber Threat Landscape to LEAs in Pacific economies.

- Staff presented at the INTERPOL Cybercrime Conference and INTERPOL Webinar on Digital Piracy.

	Success Indicators – 3C.5.	Results	Status
1	Participate in at least 12 governmental or intergovernmental engagements.	22 engagements	🟢
2	Support at least three governmental capacity-building events.	3 out of 3	🟢

3C.6   External relations coordination

Objective: Build institutional knowledge of APNIC's relationships with Members and other stakeholders and improve value and outcomes of engagement activities.
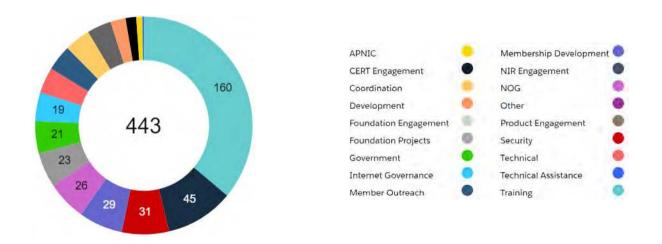
Figure 19: Engagements summary by type
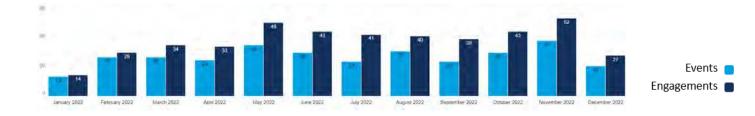
Figure 20: Engagement summary by month
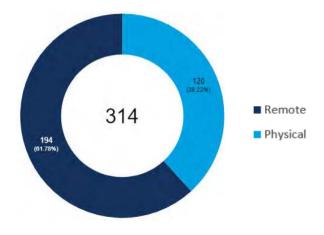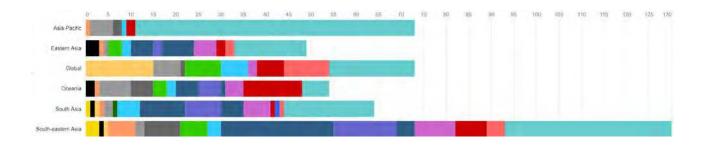
Figure 21: Remote vs physical events

New subregion added as 'Asia Pacific' to capture live eTutorials delivered for the AP region and regional events that are not economy specific.

Figure 22: Engagement summary by subregion/type

*Global collaboration is for events dedicated and engaged outside the Asia Pacific region. Asia Pacific refers to events delivered for the AP region or regional events that are not economy specific.

*Open Economy (OP1, OP2, OP3, OP4) codes capture delivery of events targeted to an entire subregion.
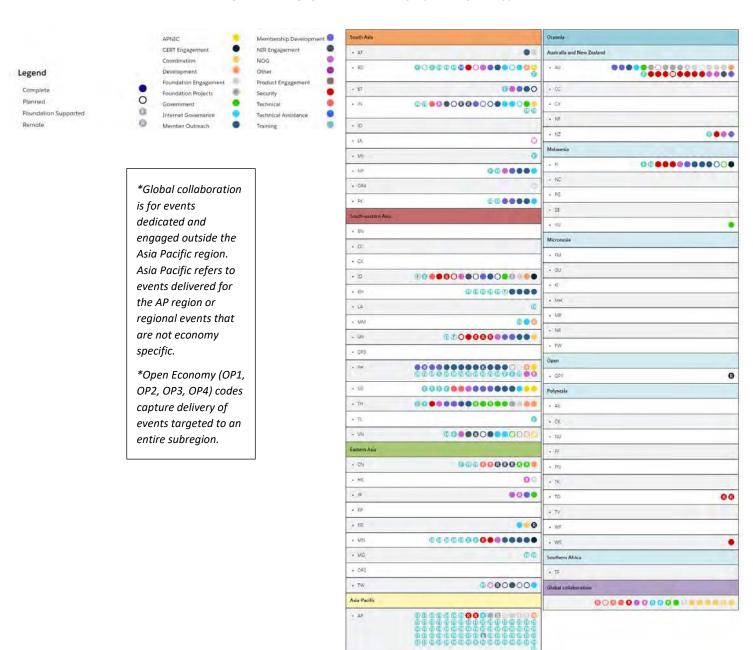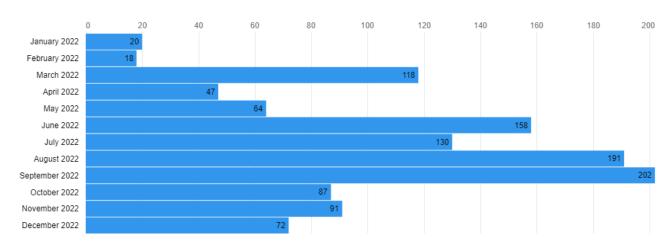
Figure 23: Engagement detail by economy

Touchpoints by month

Touchpoints by engagement types
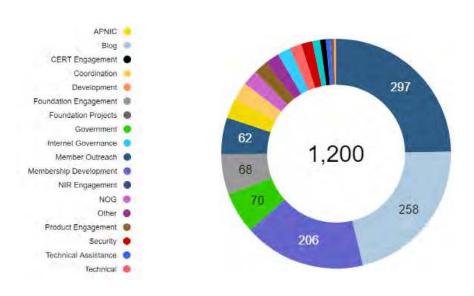
Figure 24: Touchpoints summary

Note: Touchpoints are records of interactions by APNIC staff with a contact (APNIC Member or Non-Member), usually during an event.

▪ An External Relations (ER) coordination retreat was held in February to evaluate 2021 activities and plan for 2022. 10 ER team coordination meetings have been held.

	Success Indicators – 3C.6.	Results	Status
1	Increase ER touchpoints by at least 5% from 456 in 2021.	1,200 touchpoints (163%)	🟢
2	Achieve at least 250 APNIC engagements in 2022.	443 engagements	🟢

3D   Community Participation

Operations

3D.1   Community-led processes

Objective: Increase awareness and participation in APNIC community-led processes including the PDP, SIGs (Policy, Cooperation, NIR, Routing Security), Working Groups, and BoFs.

▪ The Policy Document Review Working Group (WG), formed in 2021, completed its work at APNIC 53. Consensus was reached on seven WG policy proposals across APNIC 52 and 53.

▪ Two intersessional online SIG meetings were held; policy readout webinars in February and September attracted 55 participants. The Routing Security SIG intersessional planned for April was cancelled.

▪ An analysis of the election results for SIG and NRO NC positions was conducted after anomalies were observed in APNIC 54 registration and patterns of online participation. The analysis found no discrepancies in election processes or voting that would impact the results of the elections. However, APNIC 54 registration and attendance data indicated significant potential for manipulation of the existing rules and procedures in future elections.

Elected Leaders

▪ Five meetings of APNIC EC and staff with elected representatives (of SIGs, IANA RC, NRO NC, APIX and APNOG) were held in March, June, September, October, and November. Meeting agendas included APNIC and APRICOT conferences, the 2022 APNIC Survey, and community election processes.

	Success Indicators – 3D.1.	Results	Status
1	Achieve at least 850 online SIG participants across two conferences.	929 participants	🟢
2	Achieve at least 120 online participants across at least four intersessional SIG meetings.	2 meetings/55 participants	🔴
3	Achieve SIG satisfaction of at least 5.8/7 in the APNIC Survey.	6.00	🟢

3D.2   Online participation

Objective: Encourage community development online and help Members and the community benefit from APNIC's available online resources.

▪ The Online Community Platform MVP was launched at APNIC 54 (see 3D.4).

apnic.net

▪ Following a higher start to the year, visitor numbers to apnic.net remained consistent from April-October before declining. The top five visitor economies were the United States, New Zealand, China, India, and Australia.
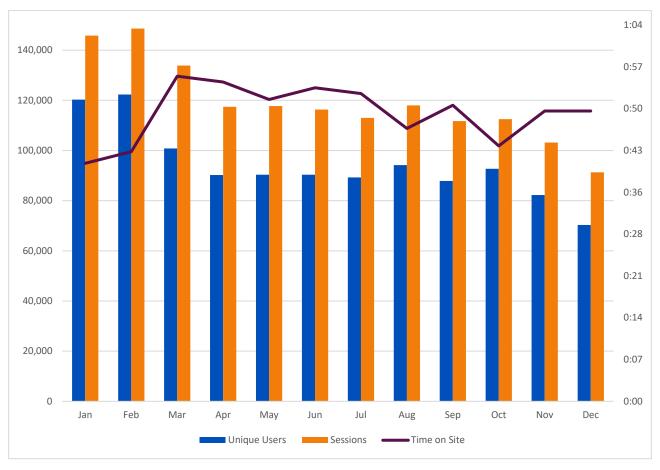
Figure 25: apnic.net website usage

Economy	Unique Users	Sessions
United States	521,475	538,211
New Zealand	94,145	99,743
China	62,504	82,779
India	62,369	107,205
Australia	34,957	66,360
Japan	34,387	54,199
Indonesia	24,719	39,166
Bangladesh	24,386	57,945
Hong Kong	12,594	73,046
Philippines	12,594	28,480

Table 11: apnic.net top visitor economies in 2022

	Success Indicators – 3D.2.	Results	Status
1	Achieve at least 500 registered users of the APNIC community platform.	8,766 users	🟢

3D.3   Encouraging newcomers and diversity

Objective: Encourage new and continuing participants from diverse backgrounds in the APNIC community — both online and face-to-face — particularly the next generation of network engineers.

- The 2022 fellowship program was launched in March.

  - Thirty fellows were chosen (15 female and 15 male; 19 professionals and 11 youth) from 371 applicants. An APRICOT 2022 fellow who deferred their place also joined the APNIC program.

  - South Asia has 12 fellows, Oceania 7, South East Asia 7, and East Asia 4. An additional 14 returning fellows from the 2021 program will also attend APNIC 54.

  - Twelve fellowship webinars were delivered with 91.5% overall attendance. Each fellow also completed an average of three APNIC Academy courses.

  - Eighteen volunteer mentors (including 16 from the community) were recruited. Eleven mentoring sessions, between 16 fellows and 11 mentors, were completed.

  - Twenty-seven fellows completed the fellowship program, a graduation rate of 87%.

- An Inclusion in Tech joint session with APrIGF was held at APNIC 54, along with a NextGen session for young newcomers to the APNIC community.

- 46% of APRICOT 2022 attendees (406) and 44% of APNIC 54 attendees (509) were newcomers.

	Success Indicators – 3D.3.	Results	Status
1	Attract at least 400 newcomers to APNIC conferences.	915 newcomers	🟢
2	Achieve at least 50% female and 30% youth participation in 2022 Fellowships.	50% female, 37% youth	🟢
3	Achieve a fellowship graduation of at least 80%.	87%	🟢
4	Achieve a fellowship program NPS of at least 80.	NPS 100	🟢

Investments

3D.4   Online community platform

Objective: Encourage an active, connected APNIC community engaging on an integrated online community platform.

- Testing of the 'Tribe' platform was terminated, and Mailman 3's 'Hyperkitty' was chosen.

- Development of new features included a central news feed, user profiles, redesigned landing pages, and a new theme applied to all pages. Consultation with community and APNIC list owners continued, and the product was named Orbit.

- The Orbit MVP was launched at APNIC 54, and all former Mailman lists were migrated to Orbit.

	Success Indicators – 3D.4.	Results	Status
1	Achieve at least 500 registered users of the platform.	8,766 users	🟢

3E   APNIC Academy

Operations

3E.1   Academy product management

Objective: Maintain high-quality training assets to build capacity in the region.

- A new self-paced OSPF course was published, including 56 topics and ten hours of new learning material.

- A total of eleven new virtual labs were added to the Academy including DHCPv6-PD, an RPKI Lab with RPKI-Prover, an RPKI Lab with FORT, the Practical Packet Analysis Lab, IPv6 Security Lab, MPLS and Segment Routing: MPLS LDP and SR Lab, NMM SNMP Libre NMS & RRD Lab, Log Management and Flow Monitoring Lab, BGP Link State BGP-LS Lab, Security Monitoring and Analysis Lab, IPv4/IPv6 Dual-Stack Lab and SRv6 Lab.

- Finalized content for six modules for the new Introduction to Cybersecurity course and developed the first four modules for the new BGP self-paced course.

- User research began for the Technical Assistance (TA) platform landing page, including improvements to the training events page.

- Deployed a new version of eduroam to provide access to eligible APNIC Academy users, including eduroam account management.

	Success Indicators – 3E.1.	Results	Status
1	Maintain Academy platform availability of at least 99.95%.	99.99%	🟢
2	Achieve a rating of at least 6.00 for APNIC training in the APNIC Survey.	6.40	🟢

3E.2   Instructor-led Training

Objective: Increase knowledge and skills in the community via instructor-led training.

- Instructor-led training was delivered as a mix of online and face-to-face with travel resuming. Training was conducted at 30 technical community events, including eleven NOGs (PHNOG, bdNOG, SANOG, IDNOG, PacNOG, VNIX-NOG, btNOG, LKNOG, NZNOG, INNOG and mnNOG).

- Eight online workshops were conducted with NIRs (VNNIC, IRINN, TWNIC, and CNNIC). Two face-to-face tutorials were also conducted for VNNIC and TWNIC in Q3 and Q4.

- RPKI tutorials and ROA sessions led by Retained Community Trainers (RCTs) commenced in May, with 21 held (PH x6, KH x4, MN x4, FJ x1, NP x3, OC x 3). An RPKI Deployathon was held before AusNOG 2022 (3E.6).

- Eight technical tutorials were also held for APNIC fellows.

- Open Lab sessions on Routing, Linux Basics, IPv6 and DNS started in October to provide more lab time to participants.

- Completed updating content and developing labs for the following existing courses:

  - Network Security: New SSL/TLS slides and lab module; new Intrusion Detection with Suricata module, plus labs.

  - RPKI/ROV: Updated lab guides and added three new validators (rpki-prover, rpki-client, and FORT).

  - DNS/DNSSEC: Rebuilt the labs.

  - NMM: New virtual labs created for use at APNIC 54.

  - IPv6: Developed lab with Mikrotik RouterOS.

January to December 2022	APNIC Instructor-led training
Courses (by topic)	141 courses delivered/3,849 attendees
Webinars	18 webinars (6 external/guest speakers)/ 1,048 attendees

Table 12: **Instructor-led training**

	Success Indicators – 3E.2.	Results	Status
1	Conduct at least 100 instructor-led tutorials / workshops.	141 tutorials / workshops	🟢
2	Conduct at least 18 live webinars.	18 out of 18	🟢
3	Achieve average training survey rating of 4/5.	4.3 out of 5	🟢

3E.3   Self-paced training

Objective: Increase knowledge and skills in the community via self-paced online training.

January to December 2022	APNIC Academy
Courses (by topic)	2,010 completions; 4,414 hours contact
Virtual Labs	11,906 labs launched; 12,125 hours completed
Students	8,385 new accounts (25,795 in total)

Table 13: APNIC Academy training

	Success Indicators – 3E.3.	Results	Status
1	Increase total self-paced online course usage by at least 30% from 3,340 hours in 2021.	4,414 hours (32%)	🟢
2	Increase total virtual lab usage by at least 20% from 6,902 hours in 2021.	12,125 hours (76%)	🟢
3	Increase registered users of the APNIC Academy by at least 25% from 17,018 in 2021.	23,801 users (40%)	🟢

3E.4   Community Trainers

Objective: Expand the scope and effectiveness of APNIC Academy training to help meet increasing community demand for technical skills development.

- A new APNIC Retained CT (RCT) program was introduced, and six community members (PH, KH, MN, FJ, NP, and LK) have been recruited. There are currently 30 active volunteer CTs (VCT) from 15 economies.

- RCTs and selected VCTs attended APNIC 54 for professional development.

- RCTs conducted monthly local economy-focused RPKI and IPv6 awareness sessions and facilitated the online Open Labs.

	Success Indicators – 3E.4.	Results	Status
1	Recruit at least 12 new retained CTs.	6 out of 12	🔴
2	Recruit at least 10 new volunteering CTs.	6 out of 10	🔴

3E.5   Technical Assistance

Objective: Assist Members on adoption of best practices when implementing networking technologies.

Activities

- Advised on the creation of a vulnerability reporting program (VRP) with an Australian Member.

- Assistance was provided to a Member in Bangladesh to solve ROA creation failure issues.

- Provided RPKI validator assistance for a Malaysian network via the TA platform.

- Contacted Members in Fiji to assist in cleaning up invalid routes (3E.6).

- Assisted .FJ to help solve a DNSSEC issue.

- Assisted an ISP in Pakistan to clean up their IPv6 and IPv4 BGP announcements.

- Coordination for ROV, root server deployment and CDN consolidation at PKIX. Work is ongoing.

- Conducted an IXP workshop and assisted Maldives to establish a local IXP (MVIX).

- Helped Tonga re-establish communication to outer islands via satellite (following the volcanic eruption in late December 2021). Supplied and configured a donated Cisco ASR router to Tonga Communications Support.

- Assisting the Papua New Guinea government to migrate their network from Huawei equipment to Cisco.

- Assisted Members via the APNIC Academy TA platform in Myanmar, Malaysia, New Zealand, Bangladesh, India, and Hong Kong on RPKI, reverse DNS, routing, BGP, IXP and IPv6 issues.

	Success Indicators – 3E.5.	Results	Status
1	Respond to all technical assistance requests within seven days.	Achieved	🟢

3E.6   RPKI awareness and deployment support

Objective: Increase adoption of RPKI and routing security in the APNIC region.

- An RPKI Deployathon was held in Sydney before AusNOG 2022.

- Conducted 26 RPKI/ROV tutorials and ROA creation with retained CTs in the Philippines, Cambodia, Mongolia, Fiji, and Nepal.

- Proactively contacted Members in Fiji and the Philippines to assist in cleaning up invalid routes, as well as Macau to assist in creating ROAs.

- Fiji reached 99% ROA coverage in August. The ROAs were created during PacNOG 30.

- Cambodia reached 91% ROA coverage shortly after a face-to-face RPKI/ROV tutorial and ROA session and KHNOG.

- RPKI deployment case studies on Comcast, NTT and APNIC were published. Twenty-nine RPKI-tagged posts were published on the APNIC Blog, including an updated post on how to install an RPKI validator.

IN, 3,329

ID, 2,109

SG, 206

JP, 212

PK, 233

TW, 298

HK, 401

BD, 1,303

VN, 468

AU, 787
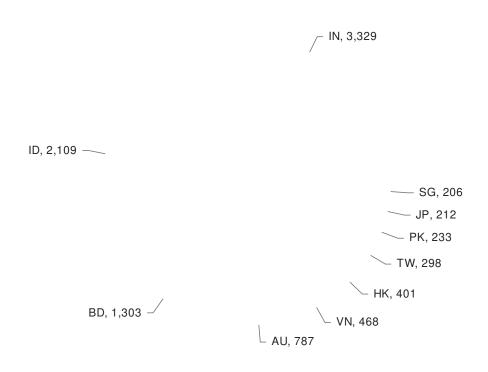
Figure 26: Top 10 Economies – Number of networks with ROAs

	Success Indicators – 3E.6.	Results	Status
1	Conduct at least two instructor-led RPKI/ROV tutorials/workshops per sub-region.	26 conducted (14 SEA, 6 EA, 2 SA, 4 OC)	🟢
2	Achieve at least 90% ROA coverage for at least one additional economy per sub-region.	2 economies	🟢
3	Publish at least three RPKI/ROV deployment case studies.	3 out of 3	🟢

3E.7   IPv6 awareness and deployment support

Objective: Encourage increased deployment of IPv6 in the APNIC region.

- APNIC delivered 21 IPv6 deployment-focused training events.

- Published two new IPv6 deployment success stories on SLTMobitel Mobile (LK) and NTT DOCOMO (JP), bringing the total number of IPv6 deployment stories on the APNIC website to 44. An IPv6 deployment podcast with Reliance Jio (IN) was also published.

- Conducted an IPv6 Awareness tutorial with a RCT in Mongolia.

- Published 61 IPv6-tagged posts on the APNIC Blog.

- IPv6 capability for the Asia Pacific region was 39.74% as measured by APNIC Labs.

	Success Indicators – 3E.7.	Results	Status
1	Conduct at least two instructor-led IPv6 deployment tutorials/workshops per sub-region.	25 completed (10 AP, 5 EA, 7 SA, 3 SEA)	🟢
2	Publish at least two IPv6 deployment case studies.	2 out of 2	🟢

Investments

3E.8   Academy product development

Objective: Continue developing high-quality training assets to build capacity in the region.

Roadmap Goals

Planned goals completed

- Integration with Salesforce for improved registration, case management and reporting

  - Extended integration with Salesforce completed.

- Integration with Okta for better account provisioning of eduroam, eduGAIN and social logins

  - Okta integration complete for account provisioning.

- Migration of APNIC's Training Wiki into the APNIC Academy platform

- Migration completed with new course material functionality implemented.
- Establish central repository of all training materials
    - Central repository of content established for trainers.
- Improve mobile support for APNIC Academy and explore m-learning/mobile app support
    - Mobile experience improved on Academy.

Additional goals completed

- Improve virtual labs performance
    - Singapore datacentre now default location for all APNIC Academy virtual labs.
- Improve Academy site navigation
    - Implemented new 'Omnibar' and contextual navigation.

Goals in progress

- None

Goals deferred

- Recruitment of a Certification Project Officer to initiate the design of a new APNIC Certification Program.

	Success Indicators – 3E.8.	Results	Status
1	Achieve all 2022 goals, according to the Academy Products Roadmap.	7 completed 0 in progress 1 deferred	🟢

3E.9   Curriculum for non-technical audiences

Objective: Demystify how the Internet works to encourage active participation of non-technical audiences in Internet governance.

- Learning objectives and design documentation were completed.
- Game development is in progress with an MVP to be released in Q2 2023.

	Success Indicators – 3E.9.	Results	Status
1	Release phase 1 of IPGO (an MVP) by June 2022.	Delayed till 2023	🔴

3F   Internet Infrastructure Support

Operations

3F.1   Internet infrastructure deployment

Objective: Improve the resilience and performance of the Internet in the region by expanding critical infrastructure deployment.

- In discussion with PKIX (Lahore) for route server deployment and RPKI. Waiting on the official launch of the IXP.

- Maldives IX (MVIX) has been launched with ROV implemented.

- Discussions are underway for an IXP in Kiribati and Timor Leste.

- Viable hardware replacements are being sought for seven disconnected RIPE Atlas anchor hosts.

- Root server deployment is focused on the M-root (see 3F.3).

- Equipment delivery delays have impacted root server deployment during 2022 so far.

	Success Indicators – 3F.1.	Results	Status
1	Support deployment of at least two new or upgraded IXPs.	1 completed 2 in progress	🔴
2	Support at least four IXPs to deploy ROV.	1 deployed 1 in progress	🔴
3	Deploy at least four root servers per sub-region, including M-Root servers.	2 out of 4 SEA 0 out of 4 SA 0 out of 4 EA 1 out of 4 OC	🔴
4	Deploy or upgrade at least one RIPE Atlas anchor per sub-region.	1 out of 4	🔴

3F.2   Community Honeynet and Security Threat Sharing Platform

Objective: Increase visibility of security threats and vulnerabilities relevant to Members and the community and encourage information sharing to understand and manage threats.

- Five new partners from Bhutan, Laos PDR and Mongolia joined the platform.

- The platform was upgraded to support an increased number of sensors and data processing.

- Mentoring for Royal Bhutan University students was provided to complete projects based on honeynet data.

- The number of honeypot sensors increased to 100.

- Quarterly threat sharing meetings were held with partners and the community to discuss latest observations.

- Presentations related to threats observed were delivered at TWNIC, mnNOG, and CNCERT/CC.

	Success Indicators – 3F.2.	Results	Status
1	Increase the number of honeypot sensors by at least 60% from 60 in 2021.	100 sensors (67%)	🟢
2	Increase the Community Honeynet and Security Threat Sharing Platform partners by at least 30% from 15 in 2021.	20 partners (33%)	🟢

Investments

3F.3   M-root anycast instance deployment support

Objective: Faster and more reliable DNS service in the APNIC region.

- Completed deployment of the M-root in Guam, Hanoi, and Kuala Lumpur.

- Deployment of M-root servers in 11 locations (Kaohsiung, Manila, Dhaka, Bangkok, Jakarta, Ulaanbaatar, Kathmandu, Mumbai, Lahore, Kolkata, and Singapore) progressed but was impacted by equipment delivery delays. Currently seeking alternative suppliers or solutions.

- The M-Root Deployment Manager position will be shifted from APNIC to JPRS.

	Success Indicators – 3F.3.	Results	Status
1	Complete 10 M-Root server deployments commenced in 2021.	3 out of 10	🔴
2	Identify and prepare at least 15 additional M-Root server sites.	1 out of 15 8 in negotiation	🔴

4   Information

Operations

4A   Information Products

4A.1   APNIC Blog and Podcast

Objective: Keep Members and the community informed with the latest news, opinions, and research from APNIC and the wider community.

- The Blog averaged 79,707 views per month, a 16% increase on 2021's monthly average of 68,721.

- There were 211 Guest Posts in 2022, representing 60% of total opinion posts (an increase on 2021's 56%).

- Popular new posts included:

  - Open DNS resolvers, from bad to worse, a Guest Post by Ramin Yazdani.

  - When volcanoes go bang, submarine cables do… what?, a Guest Post by Ulrich Speidel.

  - IP addressing in 2021, by Geoff Huston.

  - TCPLS: Modern transport services with TCP and TLS, a Guest Post by Florentin Rochet.

  - BGP in 2021 – The BGP Table, by Geoff Huston.

- Twenty-five episodes of the 'PING' Podcast were published, attracting 11,907 'impactful plays' (episode listens of 75% or longer), an average of 476 plays per episode.

	Jan	Feb	Mar	Apr	May	Jun	Jul
Views	68,679	62,523	85,087	85,812	93,389	84,728	82,237
Posts	28	27	34	28	32	43	29

	Aug	Sep	Oct	Nov	Dec	All time
Views	76,998	71,775	79,873	84,282	81,097	4,420,066
Posts	35	43	36	33	42	3,196

Table 14: APNIC Blog activity
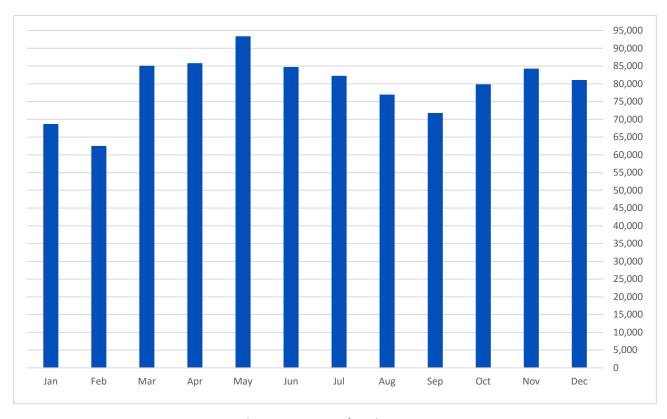
Figure 27: APNIC Blog views
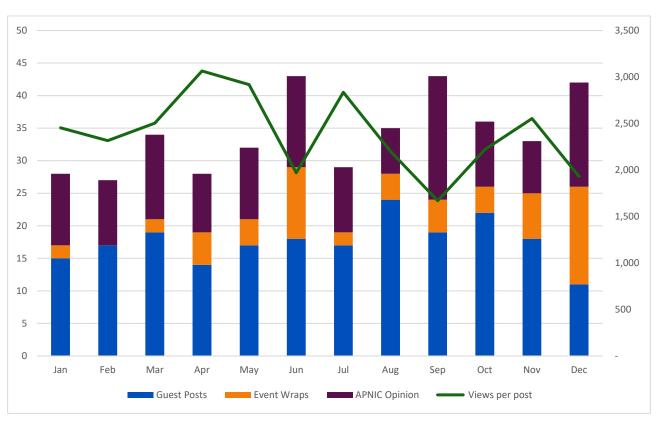
Figure 28: APNIC Blog posts
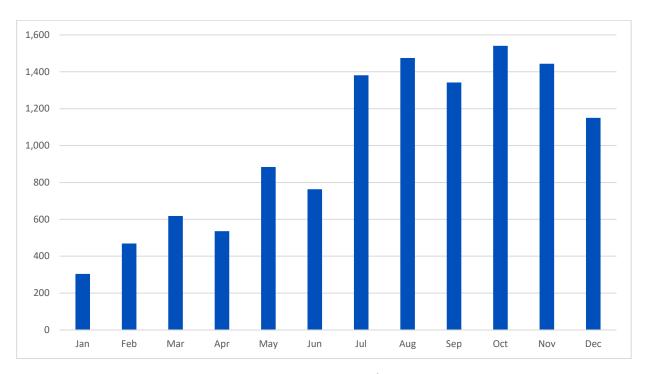
Figure 29: Podcast Impactful Plays

	Success Indicators – 4A.1.	Results	Status
1	Achieve average of at least 70,000 Blog views per month.	79,707	🟢
2	Maintain Blog Guest Post ratio between 45-65%.	60%	🟢
3	Achieve at least 4,000 podcast listens.	11,907	🟢
4	Achieve a Blog satisfaction rating of at least 5.95/7 in the APNIC Survey.	6.16	🟢

4A.2   Information product management

Objective: Provide meaningful and useful information services to Members and the community.

- A significant increase in new users was achieved using paid search promotion for REx and NetOX. This has also increased the number of returning users.

- The paid search campaign continued throughout 2022 to explore retention in search-recruited users.
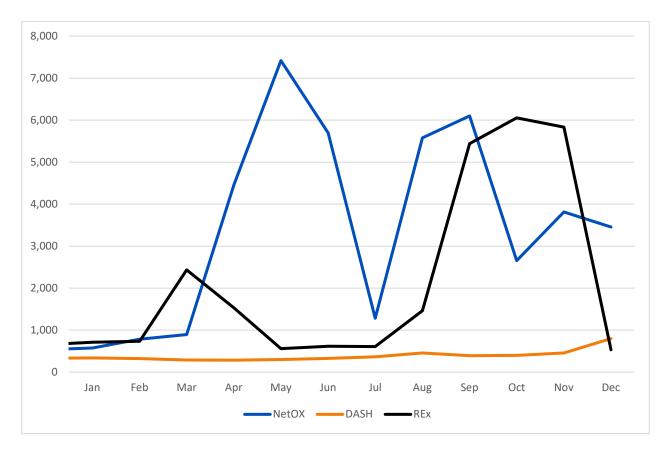
Figure 30: Monthly number of users
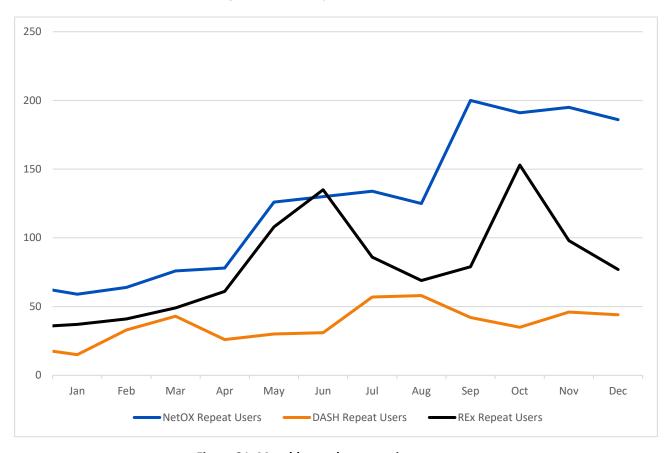
Figure 31: Monthly number returning users

	Success Indicators – 4A.2.	Results	Status
1	Maintain Information Product availability of at least 99.95%.	99.99%	🟢
2	Reach the following average users per month: REx: 1,000 users per month DASH: 500 users per month NetOX: 1,000 users per month	REx: 2,210 DASH: 394 NetOX: 3,559	🟠
3	Achieve a NPS of 60+ for all products.	REx: 32 DASH: 71 NetOX: 57	🔴
4	Maintain a usability score of at least 4.5/5 for all products.	REx: 4.3 DASH: 4.4 NetOX: 4.6	🟠

Investments

4A.3   Information product development

Objective: Develop meaningful and useful information services for Members and the community.

Roadmap Goals

Planned goals completed

- Complete a joint APIX survey around a benchmarking service

  - Survey completed.

- Add routing and suspicious traffic alerts to DASH

  - Deployed alerts through email notifications, SMS and Slack.

- Develop a common API and backend system to provide notifications as a service for APNIC products

  - Notifications system deployed for email, SMS and Slack.

- Improve NetOX comparison tools

  - Deployed feature to allow multiple Internet number resources to be compared using different widgets.

- Provide non-ASN holders access to DASH

  - Routing information features in DASH now available.

Additional goals completed

- Add routing information pages to DASH

  - Deployed routing status information to highlights inconsistencies in BGP, RPKI and IRR data.

- REx user interface improvements

  - Deployed several UX/UI improvements based on feedback.

Goals in progress

▪ Expand REx to cover global RIR delegation data and global IPv6 data

    ▪ UI design and implementation finalized, with the backend implementation to be completed in Q1 2023.

Goals deferred

▪ Add RPKI and DNSSEC measurement data to REx

	Success Indicators – 4A.3.	Results	Status
1	Achieve all 2022 goals, according to the Information Products Roadmap.	7 completed 1 in progress 1 deferred	🟢

4B   Research and Analysis

Operations

4B.1   Conducting research and measurements

Objective: Gain a greater understanding of technical issues, trends, and how the Internet operates.

▪ New measurements on the use of IPv6 as a transport protocol for the DNS and IPv6 Extension Header handling, including fragmentation, were completed.

▪ Analysis of IPv4 and IPv6 advertised, unadvertised and reserved address pools over time continues.

▪ Completed reporting on the annual state of BGP, and further development of routing bogon and CIDR reports, as input to the ISOC MANRS activity. Work continues on automated BGP anomaly detection.

▪ DNS research included analysis of the handling of large DNS responses, adoption of DOH, and DNS query patterns.

▪ Measurement of QUIC (and HTTP/3) use continues, following the release of beta software that adds QUIC support to NGINX servers.

▪ Published 37 blog articles and recorded eight podcasts.

	Success Indicators – 4B.1.	Results	Status
1	See 4B.3		

4B.2   Research cooperation

Objective: Collaborate and share resources to improve research outcomes and impacts.

▪ Continued cooperative research with ISOC in support of MANRS, providing a feed of routing data.

▪ Provided collaborative measurements on aspects of the DNS and DNSSEC as part of a cooperative research agreement with ICANN.

- Research is in progress with Cloudflare on the characteristics of DNS query traffic presented to the Cloudflare 1.1.1.1 open recursive resolver.

	Success Indicators – 4B.2.	Results	Status
1	Undertake at least two significant cooperative research activities.	3 activities	🟢

4B.3　　**Sharing research outcomes**

Objective: Help Members make better informed decisions on their network operations.

- Delivered 38 presentations at community and industry events.

	Success Indicators – 4B.3.	Results	Status
1	Publish at least 12 articles or reports on resource outcomes.	47 articles	🟢
2	Present at least 12 research presentations, including at least two at APNIC conferences.	41 presentations	🟢

5   Capability

Operations

5A   Internal Technical Infrastructure

5A.1   Architecture and technical coordination

Objective: Build efficiencies through use of a coordinated common infrastructure by multiple product teams.

- Reviewed technology platforms with particular attention to the end of life of CentOS 7 and JDK versions. CentOS 7 will be replaced with RedHat Enterprise Linux in 2023.

- Repository health metrics work is being coordinated with Security and DevOps groups to improve vulnerability scanning. An initial metrics scanner is now operational.

- The final work to centralize internal authentication and authorization was completed in 2022 for deployment in Q1 2023.

	Success Indicators – 5A.1.	Results	Status
1	Review technology recommendations once per quarter.	Completed	🟢
2	Report quarterly on architectural decisions and directions.	Completed	🟢

5A.2   Network and infrastructure operations

Objective: Ensure high availability of APNIC's infrastructure.

- Progress continued on deploying a shared POP in Singapore SG1 for both APNIC critical services and an M-root global anycast node.

	Success Indicators – 5A.2.	Results	Status
1	Complete quarterly data centre failover and backup recovery tests.	Completed	🟢
2	Respond to all critical incidents within 20 minutes.	No critical incidents	🟢
3	Maintain availability of 99.99% for critical APNIC services and 99.95% for less-critical services.	Both 99.99%	🟢

5A.3   System and platform operations

Objective: Support APNIC's public service delivery with reliable, secure, and high-performance systems.

- Completed migration of community mailing lists to Mailman 3, with Okta SSO support.

- Completed deployment of Redundant Hardware Security Module (HSM) for RPKI to allow data centre failover
- RPKI RRDP has been deployed in APNIC's Cloudflare and Google Cloud CDN instances.
- Deployed new RDNS anycast nodes in Mumbai, Bangalore, Tokyo, Melbourne, San Jose, New Jersey, and Miami.
- The annual DNSSEC key rollover was completed.
- Completed Redhat evaluation for CentOS migration work in 2023.

	Success Indicators – 5A.3.	Results	Status
1	Deploy additional Hardware Security Module (HSM) for High Availability (HA) group in multiple data centres.	Completed	🟢
2	Completed CentOS migration plan.	Completed	🟢
3	Deploy redundant load balancers.	Completed	🟢

5A.4   Internal security operations

Objective: Maintain strong internal security operations to appropriate standards of best practice to avoid service disruption and data loss.

- HackerOne support for APNIC's Vulnerability Reporting Program (VRP) and continuous penetration testing now in full production.
- Successfully completed external audit and achieved certification of ISO 27001 Information Security Management System (ISMS).
- Reviewed and updated ISMS Risk Register in consultation with risk owners.
- Published DNS Certification Authority Authorization (CAA) for APNIC domains to prevent unauthorized certificate creation from unlisted CAs.

	Success Indicators – 5A.4.	Results	Status
1	Achieve ISO27001 certification.	Completed	🟢
2	Mitigate all critical vulnerability reports within seven days and resolve within 30 days.	No critical vulnerability reports	🟢

5A.5   Enterprise applications and IT support

Objective: Provide secure and reliable enterprise technologies to support Secretariat operations.

- Internal Confluence servers were migrated to Atlassian Cloud.
- Sage People HR management was rolled out, with automation by internal Okta. Work on automating onboarding of new staff is completed
- Completed Foundation wiki migration to Confluence on Atlassian Cloud.

- Completed migration of RT application to Okta to use modern authentication.

- Started moving ARMs behind Okta for staff authentication.

	Success Indicators – 5A.5.	Results	Status
1	Meet SLA of two business-day response for internal IT support.	SLA met	🟢

Investments

5A.6   Security infrastructure upgrades

Objective: Harden APNIC systems and security infrastructure to reduce security risks and protect Member information.

- Completed Red Hat patch management service planning and testing for 2023 deployment.

- Monitoring of email SPF, DMARC, and TLS deployed through MXToolbox and Mailhardener.

- APNIC DANE TLSA record is now using a public certificate.

- Email system improvements included:

  - Deployed SMTP TLS reporting (RFC 8460).

  - Deployed MTA-STS email standard to prevent downgrade attacks on inbound email delivery (RFC 8461).

  - Outbound emails are now using the Domain Keys Identified Mail (DKIM) standard digital signature in the header.

  - Sender Policy Framework (SPF) to publish lists of permitted senders for all APNIC email domains (RFC 7208).

- A project team was created to work on privileged access management and improve user authentication as part of the zero-trust network and server access project.

- Deployed 2FA with local-only user access for the backup system.

	Success Indicators – 5A.6.	Results	Status
1	Complete automation of patch management	Completed	🟢
2	Complete email business rule deployment using standard best practice.	2023 completion	🔴
3	Implement improved user authentication and access management system.	2023 completion	🔴

5B   Finance and Business Services

Operations

5B.1   Internal knowledge management

Objective: Maintain effective methods, structures, and tools to retain and retrieve corporate information within APNIC.

- Migration of document management to SharePoint was completed.

- Internal administrative and HR documentation successfully migrated.

- Decommissioning of old 'Internal' SharePoint site completed.

	Success Indicators – 5B.1.	Results	Status
1	Complete migration during Q1 2022.	Completed	🟢

5B.2   Financial services

Objective: Transparent and efficient management and reporting of APNIC's financial affairs.

- The 2022 Budget was implemented into the APNIC accounts in January. A monthly forecast process tracked income and expenses, including expense variations to budget.

- The annual audit of APNIC's 2021 financial accounts was completed by Ernst & Young and presented to the EC at APNIC 53.

- The mid-year budget reforecast was completed and presented to Members at APNIC 54.

- The Member payments and billing survey was completed in September, with 183 responses from 25 economies. 90% of respondents rated their billing and payments experience with APNIC as 4 or 5 (out of 5).

- A risk tolerance review of APNIC's investment portfolio was undertaken and recommendations were presented by Credit Suisse at the December EC Meeting.

- APNIC's 2023 budget was approved at the December EC Meeting.

- The Australia Tax Office renewed APNIC's mutuality status for tax purposes until 30 June 2027.

	Success Indicators – 5B.2.	Results	Status
1	Achieve a successful audit of APNIC's annual financial accounts.	Completed	🟢

5B.3   Business services

Objective: Effectively support Secretariat operations and travel.

- Improvements were implemented in travel booking and risk management procedures, with continual monitoring of COVID-related travel risks and requirements.

- A new set of 'Eco-APNIC' standards, and a new management process, were introduced for APNIC promotional items.

- A self-service parking booking app was launched in Q1.

- Travel requests were migrated to Salesforce to align with audit and expense policies.

	Success Indicators – 5B.3.	Results	Status
1	Maintain all Office facilities to established annual schedule.	Completed	🟢
2	Audit travel requests and expense transactions for policy alignment.	Completed	🟢

5B.4   Business intelligence and data analytics

Objective: Improved decision making from the increased availability and accessibility of relevant, cross-system information sources.

- Continued to improve usage of Jira, Confluence, Salesforce, Tableau/FusionCharts and SharePoint to automate creation of report content (charts, tables, and narratives).

- Automated scripts have been developed to prepare data and generate standardized charts and visualizations for use in reports and presentations.

	Success Indicators – 5B.4.	Results	Status
1	100% automation of monthly Secretariat reporting data/charts from the BI system.	60% complete	🔴

Investments

5B.5   Data management and governance

Objective: Ensure availability of quality and accurate data to support decision making.

- Within APNIC's data model, ownership/stewardship has been assigned to improve data capture, management, and processing.

- A data management and governance system based on Certus/IRIS was selected and implemented, with staff being trained by the vendor on modelling and warehouse best practices. Data ingestion pipelines are being developed and tested on the new platform.

- A graph database is in development, built on Neo4J Aura cloud platform, integrating data from routing tables, whois/RDAP, RPKI, reverse DNS, and other data sources in future. Practical applications have been found in forensic analysis of Internet resource usage. Live BGP data ingestion into Neo4J is being deployed.

- APNIC Membership and Registry data is ingested into the data vault daily, and reports and chart data are sourced from it.

	Success Indicators – 5B.5.	Results	Status

1	Data model and governance are documented and implemented.	50% complete	🔴
2	Data ingestion system established and working effectively.	30% complete	🔴

5C   Employee Experience

Operations

5C.1   Organizational development

Objective: Optimize internal capability, including improved processes, effective communication, and adaptation to organizational challenges.

- Biannual 'People Pulse' surveys were completed in April and November 2022. Staff engagement levels of 83% and 82% respectively exceeded the global benchmark of 76%.

- Personalised coaching (from LeaderShape) is being provided to staff as needed.

- A career pathway framework was drafted to support a comprehensive succession plan, and executive coaching commenced in Q4.

- An internal communications specialist was appointed in April and a new internal communications plan was developed.

	Success Indicators – 5C.1.	Results	Status
1	Complete Agile adoption by end of Q2 2022.	Completed	🟢
2	Staff satisfaction ratings meet or exceed external benchmarks in 2022.	Completed	🟢
3	An Internal Communications specialist is appointed by end of Q2 2022.	Completed	🟢

5C.2   Work environment management

Objective: Ensure all places of work and workplace practices for APNIC staff (both the office and remote locations) are fit for purpose.

- Flooding in Brisbane in March caused subsidence damage to the carpark. Consultation with specialist engineers and associated trades was completed, but an insurance claim was rejected by APNIC's insurer. A rectification plan has been prepared for the 2023 budget.

- All government guidelines for COVID-infected staff have been observed and those infected provided with necessary support.

	Success Indicators – 5C.2.	Results	Status

1	Zero WHS incidents due to APNIC-controlled environmental factors.	No incidents	🟢
2	All travellers meet travel safety requirements as per the Travel Health Policy.	100% compliance	🟢

5C.3   Talent attraction and retention

Objective: Attract and retain the best possible talent to deliver on APNIC's Vision and Mission.

- Recruitment of budgeted roles has been fulfilled according to the Workforce Plan for 2022. Replacements due to attrition are ongoing.

- Talented staff in training, software development and UX roles are in high demand, resulting in staff turnover and extended delays in recruitment.

	Success Indicators – 5C.3.	Results	Status
1	Maintain staff turnover rate within benchmark of 5-15%.	9.7%	🟢
2	Fill all open roles within 90 days from advertisement.	71-day average	🟢
3	Every advertised vacancy has a minimum of four simultaneous candidate sources.	100% compliance	🟢

5C.4   People operations management

Objective: Ensure the employee value proposition and experience supports the attraction and retention of diverse and talented team members, and that policies and practices meet global standards.

- New Employee Value Proposition video and updated careers page launched.

- Parental Leave Policy reviewed and improved to meet best current practice.

- Halogen and Bamboo HR systems both decommissioned and replaced by Sage People, which resulted in a slight reduction in budget.

- All HR records were migrated to SharePoint.

- Salary reviews were completed in July and December to align salaries with market rates and to reward performance.

	Success Indicators – 5C.4.	Results	Status
1	Complete deployment of all selected modules of the Sage People system.	Completed	🟢
2	Demonstrate reduced cost of HR administration platforms.	Completed	🟢
3	Payroll review completed by end of Q3 2022.	Deferred to 2023	🔴

Investments

5C.5   APNIC workspace improvement

Objective: Enhance collaborative working at the APNIC office and for remote employees.

- Workshops are being conducted with O'Neill Architects for the design of the future APNIC premises at Breakfast Creek Road. A project team is working with APIDT on APNIC's requirements.

- The Cordelia St office refurbishment was completed within budget. The furnishings selected are able to be used in the future APNIC premises.

	Success Indicators – 5C.5.	Results	Status
1	Complete all budgeted facility upgrades by end of Q3 2022.	Completed	🟢

5D   Governance

Operations

5D.1   Executive Council (EC) support

Objective: Facilitate EC processes and activities of the highest integrity.

- Sumon Ahmed Sabir, Kam Sze Yeung, and Achie Atienza were elected to the APNIC EC for two-year terms.

- Four EC meetings have been held (Meeting 1: 21 February and 3 March, Meeting 2: 26-27 May, Meeting 3: 11 September, Meeting 4: 5-7 December).

- The EC satisfaction survey was completed in November, recording a high level of satisfaction with the APNIC Secretariat's support.

	Success Indicators – 5D.1.	Results	Status
1	Achieve a satisfaction rating of at least 6/7 from a survey of EC members.	6.8 out of 7	🟢

5D.2   Corporate governance and legal

Objective: Mitigate legal risk in all APNIC activities.

- The Strategic Risk Register was updated and presented to the EC for quarterly review.

- Recertification of ISO9001 was achieved, following additional work to document processes within Product Development, Academy, and Training Delivery, as this is now included in the recertification.

- The Whistleblower Policy was implemented, and a dedicated external provider engaged to assist with deployment and management of reports.

- All professional conduct-related policies were reviewed, and organizational expectations reinforced, to avoid the possibility of incidents.

- A comprehensive Workplace Health and Safety Risk Register was developed.

	Success Indicators – 5D.2.	Results	Status
1	Update Strategic Risk Register quarterly.	4 out of 4	🟢
2	Achieve full ISO 9001 quality management system recertification.	Completed	🟢
3	Undertake quarterly BCP scenario testing.	4 out of 4	🟢

5D.3   Corporate social responsibility

Objective: Enhance APNIC's position as an environmentally and socially responsible organization.

- Presentations to staff from environmentally friendly superannuation providers were delivered.
- Promotional items were reviewed and are now sourced from sustainable and ecologically-friendly suppliers.

	Success Indicators – 5D.3.	Results	Status
1	Corporate social responsibility program developed and approved.	In progress	🔴

Events/Activities in 2022

Month	Event Name	City	Economy
Jan	9th Meeting of ITU TSAG (Telecommunication Standardization Advisory Group)	Online	CH
	Looking Lower: Programmable Data Planes (Part 1)	Online	AP
	OSPF Operation Tutorial	Online	AP
	4th Interregional Meeting for Preparation of WTSA-20?	Online	CH
	IPv6 Protocol, Architecture & Address Planning Tutorial	Online	AP
	Cryptography Fundamentals Tutorial	Online	AP
	4th Meeting of the APT Preparatory Group for WTDC-21 (APT WTDC21-4)	Bangkok/Online	TH
	IPv6 Protocol, Architecture & Address Planning Tutorial	Online	AP
	OSPF Operation Tutorial	Online	AP
	MyFinTechWeek 2022	Online	MY
	Cryptography Fundamentals Tutorial	Online	AP
	JANOG 49	Kagoshima	JP
	PTC'22	Honolulu	US
Feb	ITU GSS-20 (Global Standards Symposium)	Geneva	CH
	NANOG 84	Online (Austin)	US
	IPv6 Protocol, Architecture & Address Planning Tutorial	Online	AP
	IS-IS Operations Tutorial	Online	AP
	AP* February 2022	Online	AP
	IRINN: IPv6 Protocol, Architecture & Address Planning Tutorial	Online	IN
	OSPF Operation Tutorial	Online	AP
	DNS Fundamentals Tutorial	Online	AP
	BGP Fundamentals & Attributes Tutorial	Online	AP
	BGP Fundamentals & Attributes Tutorial	Online	AP
	DNS Fundamentals Tutorial	Online	AP
	IS-IS Operations Tutorial	Online	AP
	APRICOT 2022/APNIC 53	Online	BD
	AVPN South Asia Social Investment Summit	ONLINE	OP4
	OSPF Operation Tutorial	Online	AP
	ISIF Asia 2021 Grantee Welcome Session	ONLINE	AP
	Cryptography Fundamentals Tutorial	Online	AP
	2nd Meeting of the APT Preparatory Group for PP-22 (APT PP22-2)	Bangkok/Online	TH
	APNIC's Vulnerability Reporting Program	Online	AP
	APNG Camp 15	Online	AP
	Cryptography Fundamentals Tutorial	Online	AP
	IPv6 Protocol, Architecture & Address Planning Tutorial	Online	AP
	1st IGF 2022 Open Consultations and MAG Meeting	Online	CH

	M3AAWG 54th General Meeting	San Francisco/Online	US
	NRO EC Meeting	Dubai	AE
	DNS-OARC 37	Austin/Online	US
Mar	ITU WTSA-20	Geneva	CH
	NRO-PACG f2f meeting	Geneva	CH
	IS-IS Operations Tutorial	Online	AP
	APAN 53	Hybrid	BD
	PacSON Virtual Webinar	Online	OP1
	Indonesia Honeynet Project Workshop	Online	ID
	IPv6 Deployment & Transition Techniques Workshop	Online	PK
	APAC DNS Forum 2022	Online	MY
	DWDM Fundamentals (Part-1)	Online	AP
	Operational & Planning Aspects of DWDM (Part-2)	Online	AP
	CNNIC : IPv6 Deployment and RPKI Workshop (Delivered in Mandarin)	Online	CN
	Technology for Change Week Asia 2022	Hong Kong	HK
	MMIX AGM & mini Peering Forum 2022	Virtual	MM
	IPv6 Deployment & Transition Techniques Workshop	Online	PK
	DNS Fundamentals Tutorial	Online	AP
	PhNOG 2022	Online	PH
	APNIC - KHNOG Training: Network & Information Security	Online	KH
	IS-IS Operations Tutorial	Online	AP
	DNS Fundamentals Tutorial	Online	AP
	BGP Fundamentals & Attributes Tutorial	Online	AP
	IETF 113	Vienna / Online	AT
	Quarterly Threat Sharing & Honeynet Community Session	Online	AP
	Assessing the Promise of Low Earth Orbit (LEO) Satellites in Accelerating Rural	Online	PH
	ICANN 73	Online	PR
	BGP Fundamentals & Attributes Tutorial	Online	AP
	20th ITCN Asia and Telecom Conference and Expo	Hybrid	PK
Apr	Network Monitoring and Management (NMM) Fundamentals Tutorial	Online	AP
	BrisSec 2022	Brisbane	AU
	Internet Routing Fundamentals Workshop - Malaysia	Online	MY
	yIGF Myanmar 2022	Online	MM
	RPKI Deployathon	Sydney	AU
	MPLS Fundamentals Tutorial	Online	AP
	Building your own switch with P4 (Part 2)	Online	AP
	OECD - 6th Session of the Working Party on Security in the Digital Economy	Online	FR
	MPLS Fundamentals Tutorial	Online	AP
	ARIN 49	Nashville	US
	Network Monitoring and Management (NMM) Fundamentals Tutorial	Online	AP

	DNSSEC Fundamentals Tutorial	Online	AP
	PCTA e-Tech Show 2022	Manila	PH
	Network Monitoring and Management (NMM) Fundamentals Tutorial	Online	AP
	Meaningful Access to Advance Digital Societies - UNCTAD's E-Commerce Week	Online	CH
	MPLS Fundamentals Tutorial	Online	AP
	APT Extraordinary meeting for ITU WTDC-21 (WTDC-e)	Online	TH
	DNSSEC Fundamentals Tutorial	Online	AP
	BNE0x33 (52nd Session) - SecTalks Brisbane	Brisbane	AU
	Connections 2022 - A post-IETF 113 Forum	Online	IN
	DNSSEC Fundamentals Tutorial	Online	AP
	Registration Services Coordination Group (RSCG) f2f Meeting	Nashville	US
	IPv6 Transition: East Asia Perspective	Online	AP
	AUSNOG 2021 (April '22)	Sydney	AU
May	INTERPOL Cybercrime Conference for LEAs and Judicial Authorities	Phuket	TH
	NZNOG 2022	Wellington	NZ
	CSP Threat Landscape 3	Online	AP
	3rd ICANN APAC-TWNIC Engagement Forum (37th TWNIC OPM)	Taipei	TW
	Packet Analysis Tutorial	Online	AP
	INNOG 5	Online	IN
	Network and Information Security Workshop	Singapore	SG
	YIGF Nepal 2022	Online	NP
	AusCERT 2022	Gold Coast	AU
	Visit to RIPE-NCC	Amsterdam	NL
	IPv6 Deployment and Security Tutorial	Online	AP
	VNNIC IPv6 Security and RPKI Workshop	Online	VN
	53rd AI3 & SOI Asia Joint Meeting	Online	AP
	RPKI - Philippines Session	Online	PH
	RIPE 84	Berlin	DE
	BKNIX Peering Forum 2022	Bangkok	TH
	IPv6 Deployment Workshop - Laos	Online	LA
	APNIC: Bangkok - Network Management and Monitoring Workshop	Bangkok	TH
	3rd Meeting of the APT Preparatory Group for PP-22 (APT PP22-3)	Tokyo	JP
	IPv6 Deployment and Security Tutorial	Online	AP
	Corporate Device Management - Securing your employees devices	Online	AP
	PITA Business Forum & Exposition 2022	Nadi	FJ
	CSP Content Creation/Update Workshop	Canberra	AU
	DNS Ecosystem Conference	Online	CN
	Packet Analysis Tutorial	Online	AP
	Global Digital Development Forum 2022	Online	US
	AIS'22 (AFRINIC 35)	Pointe aux Biches	MU

	What next for Afghanistan?	Online	AF
	IRINN: IPv6 Transition Techniques	Online	IN
	Breach and Attack Simulation Tools	Online	AP
	IRINN OPM	Online	IN
	APEC TEL WG 64th meeting	Online	TH
	ROA Creation Failed	Online	BD
Jun	Introduction to SDN/OpenFlow Tutorial	Online	AP
	RPKI - Cambodia Session	Online	KH
	QUT - Internet Infrastructure Security Best Practices - Presentation	Brisbane	AU
	BGP Policy Control Tutorial	Online	AP
	RPKI/ROA Creation and Update- Philippines Session	Online	PH
	VNNIC Internet conference 2022	Da Nang	VN
	Introduction to SDN/OpenFlow Tutorial	Online	AP
	Reverse DNS Tutorial	Online	AP
	NRO EC Face to Face Meeting - Miami	Miami	US
	Security Assurance In the Internet of Things	Online	
	Reverse DNS Tutorial	Online	AP
	USAID Symposium on Advancing Open RAN	Online	AP
	RightsCon 2022	Online	US
	SNMP Fundamentals Tutorial	Online	AP
	Indonesia MCIT webinar on 5G, IoT and IPv6	Yogyakarta	ID
	BGP Policy Control Tutorial	Online	AP
	ITU WTDC 2021 (World Telecommunication Development Conference)	Kigali	RW
	APT Mongolia IPv6 Deployment Workshop	Online	MN
	Root Server Deployment and Operations	Online	
	APJII/IDNIC visits APNIC	Brisbane	AU
	M3AAWG 55th General Meeting	London	GB
	CommunicAsia 2022	Singapore	SG
	SNMP Fundamentals Tutorial	Online	AP
	TWNIC Network Security Workshop	Online	TW
	FIRST Annual Conference 2022	Dublin	IE
	Telekom Malaysia Cyber Security Seminar	Online	MY
	bdNOG 14	Cox's Bazar	BD
	AVPN Global Conference 2022	Bali	ID
	ICANN 74	The Hague	NL
Jul	IDNOG 7	Jakarta	ID
	APNIC: APT Myanmar Network Security Workshop	Online	MM
	WIC - First General Assembly	Online	CN
	CNNIC: IPv6 Deployment (Delivered in Mandarin)	Online	CN
	Defend your Web Apps for free with mod Security	Online	AP
	PhNOG 2022 Hybrid	Makati	PH
	Transport Layer Security (TLS) and Secure Socket Layer (SSL)	Online	AP
	Historical Resource Management and the benefits of RPKI	Online	AP
	UNODC Seminar on Ramsomware	Online	AP
	IETF 114	Philadelphia	US

	RPKI/ROV Tutorial and ROA Session Cambodia	Online	KH
	JANOG 50	Hakodate	JP
	RPKI/ROV Tutorial and ROA Session Mongolia	Online	MN
	Site Visit to PH for Apricot 2023	Manila	PH
	IGF 2022 2nd Open Consultations & MAG Meeting	Online	CH
	DNS OARC 38	Philadelphia	US
	Visit to India: NIXI/IRINN, NKN etc	New Delhi	IN
	IPv6 Transition Techniques	Online	AP
	Transport Layer Security (TLS) and Secure Socket Layer (SSL)	Online	AP
	SANOG 38	Kathmandu	NP
	IPv6 Transition Techniques	Online	AP
	BSides Brisbane 2022	Brisbane	AU
Aug	Inaugural Small Islands Developing States (SIDS) Internet Governance Forum (IGF)	Online	OP1
	RPKI/ROV Tutorial and ROA Session Cambodia	Online	KH
	How USD$0 cloud infrastructure can support your business	Online	
	Youth IGF Bangladesh 2022	Dhaka	BD
	Macau Information Security Tutorial	Online	MO
	Swiss German University (Indonesia) Digital Clinic Seminar	Online	ID
	Tonga Cyber Community Networking	Online	TO
	So, you want to build a Data Centre	Online	
	Macau - Intro to Internet Routing Tutorial	Online	MO
	BGP Multihoming	Online	AP
	Round-Robin Database (RRD) Fundamentals	Online	AP
	Round-Robin Database (RRD) Fundamentals	Online	AP
	PACNOG 30	Suva	FJ
	Community Networks - Frugal Technologies and Community of Practice	Online	AP
	Global IPv6 Summit 2022	Online	CN
	Memory Forensics Tutorial for Tonga Security Community	ONLINE	TO
	ITCN Expo 2022 Karachi	Karachi	PK
	RPKI/ROV Tutorial and ROA Session Philippines	Online	PH
	IAA@AusNOG 2022	Melbourne	AU
	15th APT Policy and Regulation Forum for Pacific (PRFP-15)	Port Vila	VU
	The 53rd AI3/SOI Asia Directors MEETING	Nusa Dua	ID
	Cyber Safety Pasifika - Tier 2 Course	Nadi	FJ
	APIGA 2022	Seoul	KR
	RPKI/ROV Tutorial and ROA Session Mongolia	Online	MN
	Fourth Meeting of the APT Preparatory Group for PP-22 (APT PP22-4)	Bangkok	TH
	CompTIA Partner Summit 2022	Chicago	US
	Future of data governance in LAC / IDRC & D4D.net	ONLINE	AP
	APAN 54	Jinan	CN
	BGP Multihoming	Online	AP
Sep	SGNOG 9	Singapore	SG
	CrikeyCon 8	Brisbane	AU
	APNIC 54	Singapore	SG

	MyNOG9	Kuala Lumpur	MY
	Social Enterprise World Forum	Brisbane	AU
	Global Dialogue on Digitalization - MN (Virtual)	Online	MN
	China Internet Infrastructure Resource Conference (CNIRC) 2022	Online	CN
	AusNOG 2022	Melbourne	AU
	Packets don't lie - Threat Hunting with Zeek	Online	AP
	PacSON 2022	Suva	FJ
	inSIG 2022	Hyderabad	IN
	RPKI/ROV Tutorial and ROA Session Mongolia	Online	MN
	GFCE Triple-I Workshop and India Youth IGF 2022	Hyderabad	IN
	Asia Peering Forum 2022	Singapore	SG
	IXP Setup Workshop - Maldives	Malé	MV
	ITU PP-22 (Plenipotentiary Conference 2022)	Bucharest	RO
	ICANN 75 (24th AGM)	Kuala Lumpur	MY
	Philanthropy Australia National Conference 2022	Sydney	AU
	KRCERT/CC (KISA) APISC Annual CERT Workshop 2022 (Virtual)	Online	KR
	RPKI/ROV Tutorial and ROA Session Cambodia	Online	KH
	APrIGF 2022 and APSIG 2022	Singapore	SG
	RPKI/ROV Tutorial and ROA Session Philippines	Online	PH
Oct	Open Lab - Linux Basics	Online	AP
	Internet Routing Workshop - Timor-Leste	Dili	TL
	RIPE 85	Belgrade	RS
	Open Lab - Routing	Online	AP
	RPKI/ROV Tutorial and ROA Session Philippines	Online	PH
	mnNOG 4	Ulaanbaatar	MN
	NZITF Conference 2022	Wellington	NZ
	RPKI/ROV Tutorial and ROA Session Nepal	Online	NP
	FluxxCon 2022	Online	US
	MN Security Community Engagement	Ulaanbatar	MN
	ISLET Connect: Demonstration and Stakeholder Engagement Event	Online	AP
	RPKI/ROV Tutorial and ROA Session Fiji	Online	FJ
	OARC 39 & 47th CENTR Technical Workshop	Belgrade	RS
	Indonesia Academic CSIRT Conference	Bandung	ID
	VNIX-NOG 2022	Quy Nhon City	VN
	ISPAB IPv6 Workshop	Dhaka	BD
	LACNIC 38/LACNOG 2022	Santa Clara	BO
	btNOG 9	Thimphu	BT
	NANOG 86	Hollywood	US
	ARIN 50	Hollywood	US
	Cybergreen Annual Meeting 2022	Online	AU
	PCTA USAID Connectivity and Cybersecurity Conference	Bacolod City	PH
	Cyber Security Week Bangladesh	Online	BD
	RPKI/ROV Tutorial and ROA Session Mongolia	Ulaanbaatar	MN
	PRIF Week (Pacific Regional Infrastructure Fund)	Online	AU
	SD-WAN - An overview	Online	AP
	NetThing 2022	Online	AU

	HKNOG 11.0	Tsim Sha Tsui Kowloon	HK
	FIRST Virtual Asia Pacific Regional Symposium	Online	AP
Nov	ITU PITA Forum on Smart islands	Suva	FJ
	Open Lab - Linux Basics	Online	AP
	IANA Community Day	Brussels	BE
	BDIGF 2022	Dhaka	BD
	KHNOG 4	Phnom Penh	KH
	FIRST Cyber Threat Intelligence Symposium	Berlin	DE
	RPKI/ROV Tutorial and ROA Session Cambodia	Phnom Penh	KH
	How to set up Router/OS 7 and ROV	Online	AP
	Open Lab - Routing	Online	AP
	Switch! Viet Nam Welcome Event	Ha Noi	VN
	IRINN hostmaster workshop	Delhi	IN
	IPv6 Awareness Tutorial - Mongolia	Online	MN
	Peering Asia 4.0	Bangkok	TH
	DWDM Tutorial	Online	AP
	Pacific Telecommunications Security Expert Forum (PTSEF)	Brisbane	AU
	ITCS 2022	Chennai	IN
	Internet Governance Forum 2022	Online	ET
	RPKI/ROV Tutorial and ROA Session Pacific	Online	OP1
	Samoa IT Association (SITA) Tech Expo	Online	WS
	RPKI/ROV Tutorial and ROA Session Philippines	Online	PH
	UMS Cybersecurity Awareness Seminar 2022	Online	MY
	APNIC - Internet Routing Workshop Cambodia	Phnom Penh	KH
	ICANN DNS Symposium (IDS 2022)	Brussels	BE
	Open Lab - DNS	Online	AP
	Switch! Thailand Welcome Event	Bangkok	TH
	LKNOG 6	Colombo	LK
	FNU Cyber Security Awareness Symposium	Suva	FJ
	54th AI3-SOI Asia Joint Meeting	Manila	PH
	IDNIC AMM 2022 & Security Workshop	Jakarta	ID
	A retrospective look at IPv6 deployment in the region	Online	AP
	Advanced Routing with Multihoming Workshop Malaysia	Kuala Lumpur	MY
	IETF 115	London	GB
	Open Lab - IPv6	Online	AP
Dec	Switch! Philippines Welcome Event	Makati	PH
	Open Lab - IPv6	Online	AP
	BtCIRT Cybersecurity Bootcamp	Thimpu	BT
	KDDI Foundation? Network Security and Incident Handling	Vientiane	LA
	Switch! Timor Leste Welcome Event	Online	TL
	RPKI/ROV Tutorial and ROA Session Nepal	Online	NP
	Switch! Cambodia Welcome Event	Phnom Penh	KH
	UN-OEWG ICTs 2021-2025 Informal Meeting (Dec 2022)	New York	US
	Switch! Laos Welcome Event	Laos	LA
	LANOG Mini-Event	Vientiane	LA
	Open Lab - DNS	Online	AP

	RPKI/ROV Tutorial and ROA Session Oceania	Online	OP1
	CNCERT International Partnership Conference 2022	Online	CN
	Vietnam Internet Day 2022	Online	VN
	ICANN Root Server System Governance Working Group	Washington DC	US
	TWNIC 38th OPM	Taipei	TW
	bdNOG 15	Dhaka	BD
	RPKI Deployment Status: 2022 in Review	Online	AP
	CNNIC: IPv6 and RPKI Workshop (Delivered in Mandarin)	Online	CN

Table 15: Events attended

5x9's Implementation Plan and Cloud & Interconnection Strategy

Che-Hoo Cheng

5x9's for Highly Critical Services

- Gap Analysis done for RPKI services completed in Aug 2022
- 3-year plan drafted based on the recommendations in the report
  - 8 recommended actions to be done over 3 years (2023-2025)
  - **Services to cover: RPKI & RDNS (under Registry Product)**
- Improving availability monitoring and measurement will be the first step
  - Will publish our measurement methodology
- Community consultation to start in **<u>March</u>**
  - **To validate our draft plan**
  - In the form of online survey and interviews
  - Will publish blog story with details when we launch it
    - A summary of the Gap Analysis report will be shared publicly

3-Year Implementation Plan for 5x9's (DRAFT)

Remediation	Possible Impact	Recommended Priority	Timeline to Complete
Improved monitoring & measurement (and measurement methodology published)	High	1	1H2023
Self-healing/recovery of application components	High	2	2H2023
Improved change management processes	High	3	2H2023
Improved 24 x 7 Tier 1 support	Medium	5	2H2023
Active / active infrastructure across sites	Medium	6	2024
Exact mirroring of NextDC infra to Interactive	Medium	7	2024
Resilience in people	High	4	2025
HA Application design – redesign application to be an active-active HA design	High	8	2025

Cloud and Interconnection Strategy

- High-level strategy only
  - Have more detailed plan which is subject to change from time to time
- Draft ready for internal reference in late 2021 after internal consultation
- Another round of internal reviews now
  - And need to polish it before publishing it
- Blog post scheduled for **March**
  - Feedbacks would still be welcome

A Sneak Peek – Not Finalised Yet (#1/3)

Overall High-Level Goals

- High availability, high performance and low latency as goals for all APNIC products and services

- Security, integrity and resilience as the focuses

- Minimise vendor lock-in

A Sneak Peek – Not Finalised Yet (#2/3)

High-Level Cloud Strategy

- Maintain hybrid cloud model (on-premise private cloud and public cloud) for critical services where availability targets require it

- Maintain critical data on-premise for resilience

- Use of multiple cloud providers for higher resilience where required by availability targets of critical services

- Take full advantage of the benefits provided by cloud:
  - Many global locations allows hosting products close to users, providing a better user experience.
  - Fast scale up and down capability
  - Managed services such as databases and object storage
  - DDoS protection, caching, and resilient back-haul networks for client to server communication
  - Reduced maintenance
  - ~~Caching~~
  - ~~Automation~~
  - ~~DDoS Protection~~
  - ~~Anycast~~

A Sneak Peek – Not Finalised Yet (#3/3)

High-Level Network and Interconnection Strategy

- Maintain a well connected core network in Brisbane for office and on-premise connectivity
- Maintain resilient and low-latency connectivity to cloud providers hosting critical services where connections to on-premise infrastructure is required
- Maintain remote networks in strategic locations in the region to host APNIC services
- Encourage and support peering for low latency and resilient connectivity to APNIC services
- ~~Use multiple transit providers in Australia for improved connectivity to AP region~~
- ~~Maintain local direct peering where possible for well connectivity, otherwise remote peering outside to reach other regions~~
- ~~Maintain good and direct connectivity to main Internet hubs in AP region~~
- ~~Maintain good and direct connectivity to as many members' networks as possible~~

APNIC

addressing the Internet in the Asia Pacific

2023

Activity Plan and Budget

Contents

Introduction

This document explains APNIC's 2023 Activity Plan and Budget, for the information of APNIC Members and the wider community.

Under the Four Year Strategic Direction (2020-2023), adopted by the APNIC EC on 3 December 2019, activity is structured under five pillars and 18 workstreams, aligned with APNIC's Vision and Mission.

The five pillars are:

Membership	Registry	Development	Information	Capability

The 2023 Activity Plan and Budget describes activities according to the same structure; and provides under each workstream the Sub-Activities which are planned for 2023, along with budget allocations.
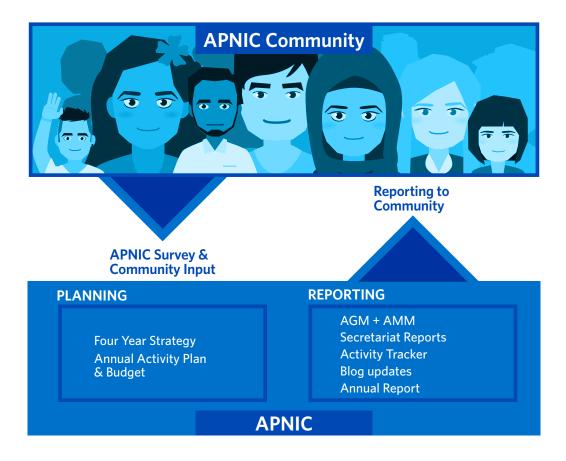
This is the final plan to be developed under the current strategic direction. In 2023, a new four year strategic direction will be developed to cover 2024-2027.

Feedback on the 2023 Activity Plan and Budget is welcome. If you would like to comment, please contact the APNIC Executive Council (EC).

Annual Planning Process

The APNIC EC and Secretariat receive input from the community through the biennial survey **(apnic.net/survey)**, APNIC Conferences, and other interactions. These inputs guide APNIC's strategy and annual planning, and the Secretariat reports progress on its activities back to the community during the year.

APNIC Community

Reporting to Community

APNIC Survey & Community Input

PLANNING

Four Year Strategy

Annual Activity Plan & Budget

REPORTING

AGM + AMM
Secretariat Reports
Activity Tracker
Blog updates
Annual Report

APNIC

Strategic Pillars

The Four Year Strategic Direction (2020-2023) defines five 'pillars' of APNIC activity.

1. MEMBERSHIP

Develop and deliver world-class products and services required by APNIC Members

Engage with Members in building a global, open, stable and secure Internet

Ensure accountable governance of APNIC as a membership organization

2. REGISTRY

Develop and deliver world-class registry products and services required by the community

Ensure responsible stewardship of Internet number resources and deliver accurate registry services

3. DEVELOPMENT

Invest in sustainable development of the regional Internet community, industry and infrastructure

Build capacity for best-practice Internet operations across the Internet technical community

4. INFORMATION

Support Internet development with needed network information services, and research outcomes which are of demonstrated value to the community

5. CAPABILITY

Provide stable and secure technical infrastructure to support APNIC operations and services

Develop a strong service culture driven by people committed to APNIC's vision and values

Sustain a healthy and resilient organization

APNIC Workstreams

The Four Year Strategic Direction (2020-2023) defines 18 workstreams, across the five pillars, as follows. Each workstream includes a number of activities which are described in this plan.

1. MEMBERSHIP

1A. MEMBER SERVICES
Deliver excellence in service and value to Members through active and quality engagement.

1B. MEMBERSHIP PRODUCTS
Apply best practice in development of membership products that meet Members' needs and exceed their expectations.

1C. MEMBERSHIP REPORTING
Ensure that APNIC remains fully accountable to its Members by providing timely and accurate information about APNIC operations.

2. REGISTRY

2A. REGISTRATION SERVICES
Provide delegation and registration services for Internet numbers (ASNs, IPv4, IPv6) according to community developed policies.

2B. REGISTRY PRODUCTS
Maintain an accurate number registry and reliable registry services.

2C. POLICY DEVELOPMENT
Facilitate the open Policy Development Process to ensure resource policies in the APNIC region are developed and implemented in a neutral manner consistent with agreed rules and community expectations.

3. DEVELOPMENT

3A. APNIC CONFERENCES
Deliver engaging and relevant APNIC conferences for learning, sharing ideas and experience, professional networking, and Internet policy development.

3B. FOUNDATION SUPPORT
Provide operational support to ensure the success of the APNIC Foundation.

3C. COMMUNITY ENGAGEMENT
Build and maintain close and meaningful relationships between APNIC and its various communities.

3D. COMMUNITY PARTICIPATION
Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities.

3E. APNIC ACADEMY
Scale up training and technical assistance infrastructure with high-quality training content and curriculum.

3F. INTERNET INFRASTRUCTURE SUPPORT
Promote and support the deployment of critical Internet infrastructure and deploy tools for operational infrastructure monitoring.

4. INFORMATION

4A. INFORMATION PRODUCTS
Provide meaningful information services to the communities APNIC serves.

4B. RESEARCH AND ANALYSIS
Analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts.

5. CAPABILITY

5A. INTERNAL TECHNICAL INFRASTRUCTURE
Provide stable and secure technical infrastructure to support APNIC operations and services.

5B. FINANCE AND BUSINESS SERVICES
Provide efficient and robust finance and business services and facilities to effectively support APNIC's operations.

5C. EMPLOYEE EXPERIENCE
Attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organization and community expectations.

5D. GOVERNANCE
Provide the legal, economic and governance framework and professional services to support APNIC's operations to minimize risk and ensure compliance and continuity.

2023 Activity Summary

The following table and chart provide a breakdown of APNIC's 2023 budget by pillar and workstream. Activities funded by the APNIC Foundation are detailed in Appendix D.

2023 ACTIVITY BUDGET (AUD)

	PILLAR	PY		OPEX (AUD)				CAPEX (AUD)	
				Operations	Investments	Total OPEX			
1	Membership	22.74	18%	4,996,728	494,726	5,491,454	16%	-	0%
2	Registry	15.08	12%	3,339,069	892,662	4,231,731	13%	-	0%
3	Development	37.42	30%	8,754,902	1,604,203	10,359,105	31%	58,500	5%
4	Information	8.74	7%	2,216,549	701,944	2,918,493	9%	45,000	4%
5	Capability	40.54	33%	10,325,231	466,552	10,791,783	32%	995,900	91%
	Grand Total	**124.52**	**100%**	**29,632,479**	**4,160,087**	**33,792,566**	**100%**	**1,099,400**	**100%**
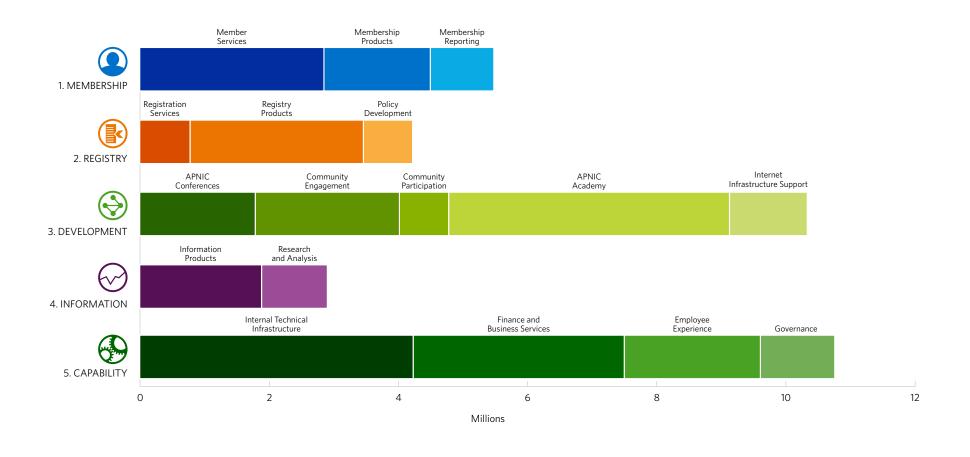
Membership	Registry	Development	Information	Capability
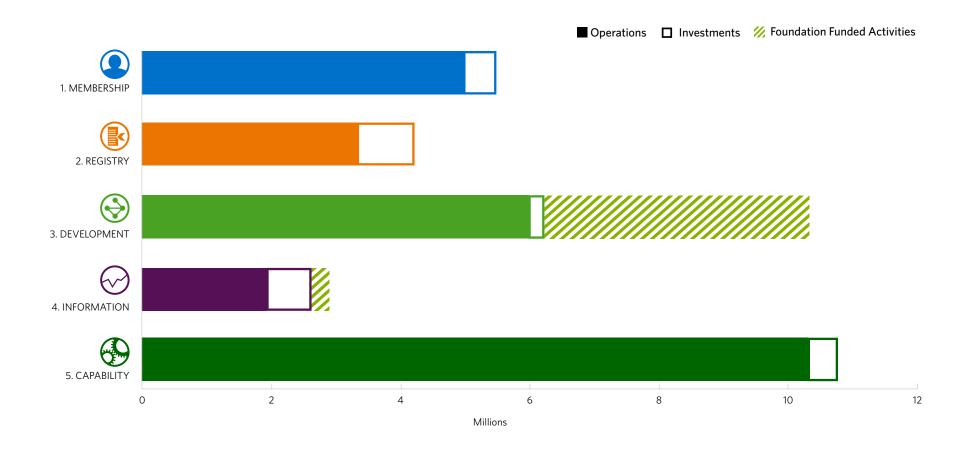
2023 Budget OPEX Distribution (AUD)

2023 Budget Funding Distribution (AUD)

Legend: ■ Operations □ Investments ▨ Foundation Funded Activities

1. MEMBERSHIP
2. REGISTRY
3. DEVELOPMENT
4. INFORMATION
5. CAPABILITY

X-axis: 0, 2, 4, 6, 8, 10, 12 — Millions

Notes on the Activities

APNIC's cctivities are described in this document under the five pillars and 18 workstreams described in the previous section. Workstreams are numbered within the pillar they belong to, and activities are then numbered within each workstream. For instance, the activity "2B.4 Registry re-architecture" is the 4th activity in the 2nd workstream (2B. Registry Products) of the 2nd pillar (2. Registry).

The activities are described as either 'Operations' or 'Investments'.

'Operations' includes all ongoing activities required for continued provision of current APNIC services.

'Investments' are project activities that result in new or improved products or services.

In some cases where activities are funded by the APNIC Foundation (rather than Member funds), this is clearly noted.

Please refer to the online APNIC Glossary for further explanation of terms used in this document.

For each workstream in this report, a table summarizes the resources (financial and human) needed to successfully complete all operational and investment activities. All monetary figures quoted are in Australian Dollars (AUD).

	1 PY	**2** OPEX	**3** CAPEX
Operations	12.17	2,778,994	-
Investments	2.50	210,130	-
Workstream total	**14.67**	**2,989,124**	**-**

1 PY: A "person year", representing the amount of work done by one full-time staff member in one year. Most activities incur a staffing cost, expressed in PY, and in most cases, this comprises contributions from multiple employees. For example – an PY value of 1.6 may be made up of four employees who each contribute 40% of their time for a period of one year (0.4 PY). The detailed account of these allocations is provided in Appendix B.

2 OPEX: Refers to all operational costs directly incurred by the activity (in AUD).

3 CAPEX: Provides the provision for capital expenditure required by the activity (in AUD).

1. MEMBERSHIP

OBJECTIVES

- Develop and deliver world-class products and services required by APNIC Members

- Engage with Members in building a global, open, stable and secure Internet

- Ensure accountable governance of APNIC as a membership organization

WORKSTREAMS

1A.   Member Services
1B.   Membership Products
1C.   Membership Reporting

1A. Member Services

Deliver excellence in service and value to Members through active and quality engagement.

OPERATIONS

1A.1. Member Service Delivery

Objective	Sub-Activities	Success Indicators
Deliver excellence in service to APNIC Members.	Provide proactive and reactive support to Members (including NIRs) using APNIC products and services, including maintaining an accessible Helpdesk. Regular engagement with NIRs for alignment of service delivery and registry consistency. Engage with remaining historical resource holders with routed address space to resolve membership and resource status.	1. Maintain Helpdesk SLA of two business day response to enquiries (>99.90%). 2. Maintain service satisfaction ratings of at least 93% "excellent and above average" feedback. 3. Achieve proactive Member service engagement in a minimum of 40 economies. 4. Membership and resource status of final 1,587 historical resource holders resolved.

	PY	OPEX	CAPEX
Operations	12.78	2,859,774	-
Investments	-	-	-
Workstream total	**12.78**	**2,859,774**	**-**

1A. Member Services - continued

1A.2. Member Experience

Objective	Sub-Activities	Success Indicators
Members and the community enjoy a positive experience using all of APNIC's products and services and can easily provide feedback for improvements.	Capture, analyse and action feedback provided by Members and the community on APNIC products and services, including maintaining a User Feedback Group. Conduct user research and testing to identify potential usability and other improvements.	1. 100% of improvement suggestions are assessed and resolved. 2. Increase total user research to 390 engagements (+10% on 2022). 3. Increase face-to-face user research to 48 engagements (+30% on 2022).

1A.3. Membership Development

Objective	Sub-Activities	Success Indicators
Ensure organizations that may need APNIC products and services can discover and access them easily.	Increase awareness of APNIC membership, products and services in economies with low membership relative to their Internet growth potential.	1. At least eight membership development activities in target economies. 2. Increase total number of net new Members to 530 (+6% on 2022).

1B. Membership Products

Apply best practice in development of membership products which meet Members' needs and exceed their expectations.

OPERATIONS

1B.1. Membership product management

Objective	Sub-Activities	Success Indicators
Provide products and services that make it easier for APNIC Members to manage their accounts and to engage with APNIC online.	Operate and maintain APNIC Membership Products, including MyAPNIC, online forms, online election platform and Member help and support systems.	1. Maintain MyAPNIC availability of at least 99.99%. 2. For MyAPNIC, achieve a Customer Effort Score (CES) of at least 4 out of 5.

	PY	OPEX	CAPEX
Operations	5.42	1,162,215	-
Investments	2.85	494,726	-
Workstream total	**8.27**	**1,656,941**	**-**

1B. **Membership Products** – continued

INVESTMENTS

1B.2. Membership Product Development

Objective	Sub-Activities	Success Indicators
Develop and improve products and services that make it easier for APNIC Members to manage their accounts.	Ongoing development of Membership Products according to APNIC's Product Management framework. A live roadmap reflecting the current state of product development is available at **roadmap.apnic.net**.	1. Achieve all 2023 goals according to the Membership Products Roadmap.

Roadmap goals

● Improve member contact management in MyAPNIC.

● Re-architect workflow code off end-of-life OS servers.

● Improve internal API authentication.

● Additional widgets in MyAPNIC Dashboard.

● Automate and improve theaccount closure processes.

1C. Membership Reporting

Ensure that APNIC remains fully accountable to its Members by providing timely and accurate information about APNIC operations.

OPERATIONS

1C.1. Planning and reporting

Objective	Sub-Activities	Success Indicators
Ensure that APNIC remains fully accountable to its Members by providing timely, complete and accurate information about all activities.	Develop APNIC's 2022 Annual Report, 2024 Activity Plan and Budget, and other reports to the community, as required. Publish the 2023 Activity Plan and Budget. Develop the 2024-2027 Strategic Plan with the APNIC EC.	1. Publish required reports on the day of the APNIC Member Meetings. 2. Publish EC Minutes within two months of each EC meeting.

	PY	OPEX	CAPEX
Operations	1.69	974,739	-
Investments	-	-	-
Workstream total	**1.69**	**974,739**	**-**

2. REGISTRY

OBJECTIVES

- Develop and deliver world class registry products and services required by the community

- Ensure responsible stewardship of Internet number resources and deliver accurate registry services

WORKSTREAMS

2A. Registration Services
2B. Registry Products
2C. Policy Development

2A. Registration Services
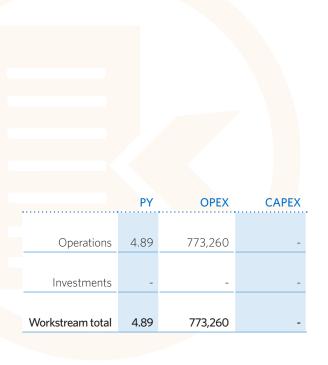
Provide delegation and registration services for Internet numbers (ASNs, IPv4, IPv6) according to the community developed policies.

OPERATIONS

2A.1. Resource registration and transfer services

Objective	Sub-Activities	Success Indicators
Provide IPv4, IPv6 and ASN delegation, transfer and registration services to APNIC Members.	Provide delegation and registration services for Internet numbers according to current policies.	1. Maintain Helpdesk SLA of two business day response to enquiries (>99.90%). 2. Delegation of resources in line with projected community demand: • IPv4: 200 delegations per month • IPv6: 100 delegations per month • ASNs: 70 delegations per month.

	PY	OPEX	CAPEX
Operations	4.89	773,260	-
Investments	-	-	-
Workstream total	**4.89**	**773,260**	**-**

2A. Registration Services – continued

2A.2. Maintain correct and current registry data ↻

Objective	Sub-Activities	Success Indicators
Ensure registry data is comprehensive, current and correct.	Encourage Members to improve and maintain accuracy and currency of their registry data. Determine and apply relevant information and processes from ITHI reporting to new Registry Health Indicators Report. Introduce Assisted Registry Checklist to help increase accuracy of registration records.	1. New metrics for registry accuracy established.

2B. Registry Products

Maintain an accurate number registry and reliable registry services.

OPERATIONS

2B.1. Internet Number Registry Management

Objective	Sub-Activities	Success Indicators
Register unique address space allocations and assignments and provide information for Internet troubleshooting at all levels.	Operate and manage an accurate and stable public number registry service.	1. Maintain APNIC Registry Management System (ARMS) availability of at least 99.99%.

2B.2. Registry Product Management

Provide essential registry products and services to help network operators maintain a secure, available and stable Internet.	Operate and maintain APNIC Registry Products including whois, RDAP, RPKI, RDNS and IRR. Migrate registry-related host infrastructure running end-of-life OS. This includes participation in related IETF standardization work.	1. Maintain availability of registry services: • Whois: 99.99% • RDAP: 99.99% • RPKI: 99.99% • RDNS: 99.99% • IRR: 99.99%.

	PY	OPEX	CAPEX
Operations	4.40	1,809,337	-
Investments	5.10	892,662	-
Workstream total	**9.50**	**2,701,999**	**-**

2B. Registry Products – continued

INVESTMENTS

2B.3. Registry Product Development

Objective	Sub-Activities	Success Indicators
Develop and improve essential registry products and services.	Ongoing development of Registry Products according to APNIC's Product Management framework A live roadmap reflecting the current state of product development is available at **roadmap.apnic.net**.	1. Achieve all 2023 goals, according to the Registry Products Roadmap.

Roadmap goals

- Ability to create and validate RSC objects using MyAPNIC.
- Support RPKI BGPsec router certificates.

- Publish and maintain NIR subaccount organisation object information in whois.
- NIR ASN direct assignments.
- Pre-validate all RPKI changes to avoid errors.

- Update authorization mechanisms for whois.
- Improve ASN delegation identity in whois and MyAPNIC.

2B. **Registry Products** – continued

2B.4. Registry re-architecture

Objective	Sub-Activities	Success Indicators
Improve security, reliability, and efficiency of the APNIC registry, and facilitate easier development of future registry services and functions required by the community.	Re-architect APNIC's Registry database and management systems to increase automation, stability, and support a more diverse range of registry services, including a Member API.	1. Complete the development of a Member API. 2. Complete the reimplementation of the policy constraint logic and related features in the core internal registry.

2B. Registry Products – continued

2B.5. Five-9s Availability for Highly Critical Services

Objective	Sub-Activities	Success Indicators
Achieve 99.999% availability for APNIC's highly critical services via phased improvements over multiple years.	Implementation of improvements based on gap analysis report to move towards 99.999% availability for highly critical services. This is a multi-year project. Preparatory activities planned from Q1 2023: • Deploy improved availability monitoring and measurement • Publish availability measurement methodology • Publish APNIC's cloud strategy framework • Community consultation on highly critical services and proposed plan Begin implementation Phase 1 from Q3 2023: • Improved change management processes • Improved 24x7 Tier-1 Support (see 5A.7) • Self-healing/recovery of application components. Service implementation priorities will be determined following preparatory phase.	1. Complete all preparatory activities by end of Q2.

2C. Policy Development

Facilitate the open Policy Development Process to ensure resource policies in the APNIC region are developed and implemented in a neutral manner consistent with agreed processes and community expectations.

OPERATIONS

2C.1. Policy development

Objective	Sub-Activities	Success Indicators
Ensure resource policies in the APNIC region are developed in line with the community-agreed Policy Development Process (PDP).	PDP facilitation including support for: • Two Policy SIG meetings, inter-sessional policy meetings, and mailing lists/Orbit • Exchange of policy-related information with other RIRs • Support ASO Address Council Members and processes in the APNIC region • NIR cooperation on policy matters and participation at all NIR OPMs.	1. Achieve SIG Chair Support satisfaction of at least 6/7.

	PY	OPEX	CAPEX
Operations	0.69	756,472	-
Investments	-	-	-
Workstream total	**0.69**	**756,472**	**-**

2C. **Policy Development** - continued

2C.2. Policy implementation

Objective	Sub-Activities	Success Indicators
Implement APNIC resource policies in a neutral manner consistent with agreed processes, timings and community expectations.	Initiate and coordinate the implementation of approved resource policies to agreed community deadlines. Advise and assist NIRs to implement approved policies.	1. Meet 100% of policy implementation timelines.

2C.3. Policy analysis

Provide neutral policy advice and impact analysis to help the APNIC community make informed policy decisions.	Analyse the impact of policy proposals on registry operations; identify areas where policy change may be considered; and contribute to policy discussions as appropriate.	1. Publish a policy proposal analysis before each Open Policy Meeting (OPM).

3. DEVELOPMENT

OBJECTIVES

- Invest in sustainable development of the regional Internet community, industry and infrastructure

- Build capacity for best-practice Internet operations across the Internet technical community

WORKSTREAMS

3A. APNIC Conferences
3B. Foundation Support
3C. Community Engagement
3D. Community Participation
3E. APNIC Academy
3F. Internet Infrastructure Support

3A. APNIC Conferences
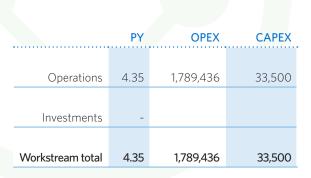
Deliver engaging and relevant APNIC conferences for learning, sharing ideas and experience, professional networking, and Internet policy development.

OPERATIONS

3A.1. APNIC conferences

Objective	Sub-Activities	Success Indicators
Provide two conferences each year for the APNIC community to learn, share ideas and experience, build relationships, and develop Internet policy.	Deliver well-organized, high-quality, hybrid conferences with interesting and relevant program content. APRICOT 2023 / APNIC 55 will be held in Manila, Philippines, in February. APNIC 56 will be held in Kyoto, Japan, in September. Evaluate and select the conference location for APNIC 58.	1. Achieve total attendance of at least 1,200 (face-to-face and online) across two conferences. 2. Achieve a Net Promoter Score of at least 50 at each conference.

	PY	OPEX	CAPEX
Operations	4.35	1,789,436	33,500
Investments	-		
Workstream total	4.35	1,789,436	33,500

3B. Foundation Support

Provide operational support to ensure the success of the APNIC Foundation.

INVESTMENTS

3B.1. Foundation operations support

Objective	Sub-Activities	Success Indicators
Provide support to the Foundation, in accordance with the AoC of 2018, as its operations mature and evolve.	Provide administrative and operational support including: • Up to a total of 1.4 Person Years in operational support • Enterprise systems access and support • Office space, equipment and online systems support as required.	N/A

	PY	OPEX	CAPEX
Operations	-	-	-
Investments	1.40	-	-
Workstream total	**1.40**	**-**	**-**

3B. Foundation Support - continued

3B.2. Foundation projects support

Objective	Sub-Activities	Success Indicators
Provide support to Foundation-delivered projects in the Asia Pacific.	Support the delivery of APNIC Foundation-led projects as required, including: • AI3/SOI Asia • SWITCH-SEA • ISIF Asia • Afghanistan Project.	1. Achieve a satisfaction rating of at least 6/7 from the APNIC Foundation delivery team.

3C. Community Engagement

Build and maintain close and meaningful relationships between APNIC and its various communities.

OPERATIONS

3C.1. Technical Community Support

Objective	Sub-Activities	Success Indicators
Participate in, and encourage the development of, a healthy Asia-Pacific technical community.	Support NOGs and REN community activities, through participation, content and/or sponsorship.	1. Support at least 22 technical community events (opportunity permitting). 2. Support at least one new/revived NOGs in two sub-regions (if required).

	PY	OPEX	CAPEX
Operations	6.24	2,243,177	-
Investments	-	-	-
Workstream total	6.24	2,243,177	-

3C. Community Engagement – continued

3C.2. Security Community Support

Objective	Sub-Activities	Success Indicators
Increase collaboration and build trust with the security community, and increase awareness around relevant security issues.	Support security community events, through participation, content and/or sponsorship. Support CERTs/CSIRTs with technical assistance. Host high quality security content at APNIC conferences.	1. Support at least 15 security community events (opportunity permitting). 2. Support development of at least four new or existing CERTs/CSIRTs (if needed).

3C. Community Engagement – continued

3C.3. Internet Organisation Cooperation

Objective	Sub-Activities	Success Indicators
Play a responsible role in the global Internet ecosystem through active collaboration with other regional and global Internet organizations.	Collaborate in joint initiatives with Internet organizations including the NRO, RIRs, ICANN, IETF, ISOC and others. Provide advice and any necessary support to aid stability of AFRINIC and the global RIR system. Contribute to the implementation of the NRO Strategic Plan and its programs: RPKI, cybersecurity, and government engagement.	1. Participate in all NRO-EC and I-star coordination meetings. 2. Participate in all RIR Open Policy Meetings (physically or remotely).

3C. Community Engagement – continued

3C.4. Internet Governance Participation

Objective	Sub-Activities	Success Indicators
Engage the community to strengthen open, multistakeholder, bottom-up and transparent Internet governance processes.	Support national, regional, and global Internet governance activities in the lead up to IGF 2023 in Japan, including the APrIGF, national IGF and schools of Internet governance, through participation, content and/or sponsorship. Help APrIGF develop a sustainable operating model. Contribute to ongoing discussions and work related to UN Internet governance activities.	1. Submit at least 2 workshop proposals at both the APrIGF 2023 and IGF 2023. 2. Participate and/or sponsor at least five national or sub-regional Internet governance activities. 3. Participate and/or sponsor at least two schools of Internet governance or academies such as APIGA.

3C. Community Engagement – continued

3C.5. Government Engagement

Objective	Sub-Activities	Success Indicators
Monitor government and intergovernmental activities affecting APNIC's mission, and build and maintain meaningful relationships between APNIC, governments and public safety agencies in the region.	Participate in inter-governmental forums such as the ITU, APT and APEC TEL, and engage with other relevant government and public safety agencies in the region. Seek opportunities for capacity building partnerships with governments and intergovernmental agencies. Monitor international cyber-policy processes and build relationships with government officials from the Asia-Pacific region. Encourage support from governments and intergovernmental organisations for the stable operation of the RIR system and Internet ecosystem.	1. Complete at least seven capacity building partnerships with governments, intergovernmental agencies and public safety agencies. 2. Achieve at least 25 new touchpoints related to international cyberpolicy processes, such as UN-OEWG.
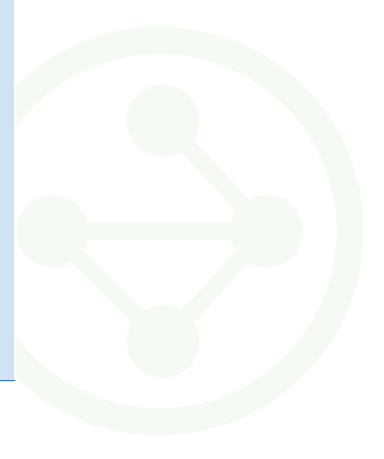
3C. Community Engagement – continued

3C.6. External Relations Coordination

Objective	Sub-Activities	Success Indicators
Build institutional knowledge of APNIC's relationships with Members and other stakeholders, and improve value and outcomes of engagement activities.	Coordinate APNIC's External Relations (ER) activities across all stakeholder segments and sub-regions. Maintain the APNIC CRM including records of ER contacts, touchpoints, events and engagements. Support the ER team with administration, systems, and professional development.	1. Achieve at least 300 APNIC engagements. 2. Participate remotely in at least 30% of total engagements.

3D. Community Participation

Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities.

OPERATIONS

3D.1. Community-led Processes

Objective	Sub-Activities	Success Indicators
Support and increase awareness in APNIC community-led processes including the PDP, SIGs (Policy, Cooperation, NIR, Routing Security), Working Groups, and BoFs.	Provide support to community-elected leaders of SIGs and help facilitate meetings and processes associated with SIGs and Working Groups. Promote participation in community-led processes via APNIC's communication channels, community engagement, and training and outreach.	1. Achieve at least 560 SIG participants (in person and online) across two conferences . 2. Achieve elected leaders support satisfaction of at least 6/7.

	PY	OPEX	CAPEX
Operations	3.77	758,604	-
Investments	-	-	-
Workstream total	**3.77**	**758,604**	**-**

3D. Community Participation - continued

3D.2. Online Participation

Objective	Sub-Activities	Success Indicators
Encourage an active, connected community engaging on Orbit and benefitting from APNIC's available online resources.	Promote Orbit and APNIC's online services to increase awareness and encourage greater usage and participation.	1. Attract at least 650 new registered users of Orbit. 2. Achieve at least 1,500 new Orbit posts.

3D.3. Encouraging Newcomers and Diversity

Encourage new and continuing participants from diverse backgrounds in the APNIC community, particularly the next generation of network engineers.	Provide a six-month fellowship program to build understanding of APNIC and core operational concepts, professional networking, and ongoing participation in community activities. Provide opportunities for new and diverse participants to take part in APNIC community activities.	1. Attract at least 400 newcomers to APNIC conferences. 2. Maintain fellowship cohort age and gender diversity (50% female and 20% youth in 2022). 3. Achieve a fellowship graduation rate of at least 80%. 4. Achieve a fellowship program NPS of at least 80.

3E. APNIC Academy

Scale up training and technical assistance infrastructure with high-quality training content and curriculum.

OPERATIONS

3E.1. Academy Product Management [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Maintain high quality online training platform, content and curriculum.	Provide on-demand, self-paced online courses and virtual labs via the APNIC Academy online platform. Review and maintain content on Academy's existing curriculum of workshops, online courses, tutorials and labs. Raise awareness to increase usage in the region.	1. Maintain Academy platform availability of at least 99.95%. 2. Achieve at least 10,000 hours of usage in self-paced online courses and virtual labs in 2023. 3. Achieve a total of 30,000 registered users on Academy platform in 2023. 4. Achieve a CES of at least 4 out of 5 for the APNIC Academy platform.

	PY	OPEX	CAPEX
Operations	16.30	3,535,057	15,000
Investments	3.35	829,377	-
Workstream total	19.65	4,364,434	15,000

3E. **APNIC Academy** - continued

3E.2. Training Events [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Increase knowledge and skills in the community via instructor-led training.	Deliver instructor-led training around the APNIC region (face-to-face, online or hybrid) focused on real-world deployment and best practices.	1. Conduct at least 40 online/hybrid training events led by staff/guest trainers. 2. Conduct at least 40 in-person training events led by staff trainers. 3. Achieve minimum training topic coverage of 8 RPKI/ROV, 8 IPv6, and 6 IXP and Peering sessions. 4. Achieve average training survey rating of 4/5.

3E. APNIC Academy - continued

3E.3. Community Trainers Network [Foundation funded – see Appendix D]

Objective	Sub-Activities	Success Indicators
Expand the scope and effectiveness of APNIC Academy training to help meet increasing community demand for technical skills development.	Recruit, retain and develop more Community Trainers (CTs) to deliver training and technical assistance across the region and remain active in their local NOGs and technical community.	1. Conduct 40 training events led by CTs. 2. Retain 12 retained CTs (balanced across sub-regions) by end 2023. 3. Retain 30 volunteering CTs (balanced across sub-regions) by end 2023.

3E.4. Technical Assistance

Assist Members to adopt best practices when implementing networking technologies.	Provide technical assistance and advice to Members both online via the APNIC Academy platform and face-to-face. Improve user experience for those making TA requests.	1. Respond to all technical assistance requests within seven days.

3E. APNIC Academy - continued

3E.5. RPKI Awareness and Deployment Support

Objective	Sub-Activities	Success Indicators
Increase adoption of RPKI and routing security in the APNIC region.	Provide training and technical assistance on RPKI and ROV deployment, raise awareness and share best practice via presentations at relevant events, blog posts and online information.	1. Achieve at least 90% ROA coverage for at least one additional economy per sub-region. 2. Maintain at least 90% ROA coverage for all economies past 90% coverage before 2023. 3. Publish at least two RPKI/ROV deployment case studies. 4. See 3E.2 for training success indicators.

3E. APNIC Academy - continued

3E.6. IPv6 Awareness and Deployment Support

Objective	Sub-Activities	Success Indicators
Encourage increased deployment of IPv6 in the APNIC region.	Provide training and technical assistance, and sharing of IPv6 best practices, information resources and case studies.	1. Publish at least two IPv6 deployment case studies. 2. Asia-Pacific IPv6 capability continues to increase beyond 35%. 3. See 3E.2 for training success indicators.

3E. APNIC Academy - continued

3E.7. IXP and Peering Awareness and Support

Objective	Sub-Activities	Success Indicators
Promote peering among network operators and provide training and support for IXPs in the region.	Provide training and technical assistance on IXPs and peering, raise awareness and share best practice via presentations at relevant events, via blog posts and online information. Continue to support APIX, peering forums and other events related to IXPs.	1. Conduct at least four IXP technical assistance engagements in 2023. 2. Support APIX meetings at two APNIC conferences, Peering Asia, and at least two peering forums. 3. Publish at least eight blog posts related to IXPs and peering. 4. See 3E.2 for training success indicators.

3E. APNIC Academy - continued

INVESTMENTS

3E.8. Academy Product Development [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Continue developing high-quality training assets - curriculum, labs, platform and materials - to build capacity in the region.	Ongoing development of Academy Products according to APNIC's Product Management framework. A live roadmap reflecting the current state of product development is available at **roadmap.apnic.net.**	1. Achieve all 2023 goals, according to the Academy Products Roadmap.

Roadmap goals

● Improve Academy data reporting with BI tools

● Design training certification program

● Integrate TA platform with Salesforce case management tools

3E. APNIC Academy - continued

3E.9. Curriculum for Non-Technical Audiences [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Demystify how the Internet works to encourage active participation of non-technical audiences in Internet governance.	Develop and launch a technically-accurate online educational game (IPGO) for both iOS and Android mobile platforms that teaches Internet fundamentals to non-technical audiences.	1. Launch minimum viable product (MVP) of the IPGO game before end of Q2.

3F. Internet Infrastructure Support

Promote and support the deployment of critical Internet infrastructure and deploy tools for operational infrastructure monitoring.

OPERATIONS

3F.1. Internet Infrastructure Deployment

Objective	Sub-Activities	Success Indicators
Improve the resilience and performance of the Internet in the region by expanding critical infrastructure deployment and measurement.	Support the deployment and management of IXPs, ROV support, and deployment of anchors for the RIPE Atlas program.	1. Support deployment of at least two new or upgraded IXPs. 2. Support at least two IXPs to deploy ROV. 3. Deploy or upgrade at least one RIPE Atlas anchor per sub-region.

	PY	OPEX	CAPEX
Operations	0.69	428,627	10,000
Investments	1.32	774,826	-
Workstream total	**2.01**	**1,203,453**	**10,000**

3F. **Internet Infrastructure Support** - continued

3F.2. Community Honeynet and Security Threat Sharing Platform [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Increase visibility of security threats and vulnerabilities relevant to Members and the community and encourage information sharing to understand and manage threats.	Maintain and grow the APNIC Community Honeynet and Security Threat Sharing Platform, including engaging with partners to host sensors for the project. Provide data feeds to DASH and share research findings via events and the Blog.	1. Increase the number of honeypot sensors to 200 (+100% on 2022). 2. Increase the Community Honeynet and Security Threat Sharing Platform partners to 26 (+30% on 2022). 3. Organise quarterly threat sharing community events.

3F. Internet Infrastructure Support - continued

INVESTMENTS

3F.3. M-Root Deployment Support [Foundation funded – see Appendix D]

Objective	Sub-Activities	Success Indicators
Faster and more reliable DNS service in the APNIC region.	Deploy M-Root anycast instances, working in partnership with the WIDE Project and JPRS. High-volume or underserved locations will be preferred.	1. Complete 12 M-Root server deployments commenced before 2023. 2. Identify and prepare at least 12 additional M-Root server sites.

4. INFORMATION

OBJECTIVE

• Support Internet development with needed network information services and research outcomes that are of demonstrated value to the community

WORKSTREAMS

4A. Information Products
4B. Research and Analysis

4A. Information Products

Provide meaningful information services to the communities APNIC serves.

OPERATIONS

4A.1. APNIC Blog and Podcast

Objective	Sub-Activities	Success Indicators
Keep Members and the community informed with the latest news, opinions and research from APNIC and the wider community.	Maintain the Blog's readership with engaging and informative content. Produce a fortnightly podcast ('PING') on the latest Internet research and trends.	1. Achieve average of at least 78,000 Blog views per month (in line with 2022). 2. Maintain Blog Guest Post ratio between 45-65%. 3. Achieve at least 12,000 podcast listens (in line with 2022).

4A.2. Information Product Management

Provide meaningful and useful information services to Members and the community.	Operate and maintain APNIC Information Products including REx, DASH, NetOX and the Notification Platform.	1. Maintain Information Product availability of at least 99.95%. 2. DASH alert subscribers increase to 120 (+20% on 2022).

	PY	OPEX	CAPEX
Operations	4.54	1,187,197	-
Investments	3.25	701,994	-
Workstream total	7.79	1,889,141	-

4A. Information Products - continued

INVESTMENTS

4A.3. Information Product Development

Objective	Sub-Activities	Success Indicators
Develop new information services to help Members and the community improve the reliability and security of the Internet.	Ongoing development of Information Products according to APNIC's Product Management framework. A live roadmap reflecting the current state of product development is available at **roadmap.apnic.net**.	1. Achieve all 2023 goals, according to the Information Products Roadmap.

Roadmap goals

● Add DASH widgets to the MyAPNIC dashboard.

● Add DNSSEC and RPKI statistics to REx.

● Complete a prototype that explores graph database capabilities.

● Expand REx to cover global RIR delegation data.

● Add suspicious traffic alerts to the notification platform.

● Expand notification channels.

4A. Information Products - continued

INVESTMENTS

4A.4. APNIC website refresh

Objective	Sub-Activities	Success Indicators
Ensure Members and community can easily find, use and understand the information, products and services they need on the APNIC website.	Improve the information architecture, design and content of apnic.net, including: • Navigation and home page design • Content review and refresh • Search improvements • Improved accessibility This project is expected to be completed in mid-2024.	1. Complete information architecture review by end Q2. 2. Complete content review by end Q2 and content refresh by end Q4.

4B. Research and Analysis

Analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts.

OPERATIONS

4B.1. Conducting research and measurements [Foundation funded (partial) – see Appendix D]

Objective	Sub-Activities	Success Indicators
Gain a greater understanding of technical issues, trends, and how the Internet operates.	Conduct research experiments on topics including IP addressing, routing, DNS and other critical Internet infrastructure matters.	1. See 4B.3.

4B.2. Research Cooperation

Collaborate and share resources to improve research outcomes and impacts.	Engage in research partnerships with other reputable organizations such as Cloudflare, ICANN, Internet Society, RIPE NCC and others.	1. Undertake at least three significant cooperative research activities.

	PY	OPEX	CAPEX
Operations	0.95	1,029,352	
Investments	-	-	45,000
Workstream total	**0.95**	**1,029,352**	

4B. Research and Analysis - continued

4B.3. Sharing Research Outcomes

Objective	Sub-Activities	Success Indicators
Help Members make better informed decisions on their network operations.	Share research insights online and at selected events to raise awareness of issues and trends which may impact Internet operations and assist policy discussions.	1. Publish at least 20 articles or reports on resource outcomes. 2. Present at least 15 research presentations, including at least two at APNIC conferences. 3. Discuss research on 12 podcasts.

5. CAPABILITY

OBJECTIVES

- Provide stable and secure technical infrastructure to support APNIC operations and services

- Develop a strong service culture driven by people committed to APNIC's vision and values

- Sustain a healthy and resilient organization

WORKSTREAMS

5A. Internal Technical Infrastructure
5B. Finance and Business Services
5C. Employee Experience
5D. Governance

5A. Internal Technical Infrastructure

Provide stable and secure technical infrastructure to support APNIC operations and services.

OPERATIONS

5A.1. Architecture and Technical Coordination

Objective	Sub-Activities	Success Indicators
Build efficiencies and reduce costs through use of a coordinated common infrastructure by multiple product teams.	Manage and improve APNIC's systems architecture for better integration and coordination of systems and business processes. Work across development teams to maintain quality, adherence to information security policies, improve efficiencies, provide architectural reviews, and aid the selection of technologies used in product development. Develop an API portal to allow external users to more easily use APNIC's external APIs across all products.	1. API portal completed and launched by Q4. 2. At least 20 technical coordination meetings held with all product teams.

	PY	OPEX	CAPEX
Operations	14.73	3,812,388	367,200
Investments	1.45	432,203	-
Workstream total	16.18	4,244,591	367,200

5A. Internal Technical Infrastructure - continued

5A.2. Network and Infrastructure Operations

Objective	Sub-Activities	Success Indicators
Ensure high availability of APNIC's infrastructure.	Manage APNIC's data centre presence in the region, interconnections between the APNIC network and others via peering relationships, and maintain a 24x7 Incident Response Team. Standardise architecture, interconnections and services provided on physical points of presence (POPs) in Japan and Singapore.	1. Complete quarterly data centre failover and backup recovery tests. 2. Respond to all critical incidents within 20 minutes. 3. Maintain availability of at least 99.99% for critical APNIC services and at least 99.95% for less-critical services.

5A. Internal Technical Infrastructure - continued

5A.3. System and Platform Operations

Objective	Sub-Activities	Success Indicators
Support APNIC's public service delivery with reliable, secure and high-performance systems.	Operate and maintain all systems supporting public services, including regular updates and security patches, replacing hardware where necessary, and decommissioning old systems. Migrate existing services using end-of-life OS to a new operating system. Complete service migration to new load balancer. Implement new calculation tool for service availability.	1. Migrate 80% of public services to the new load balancer. 2. Provide real-time availability monitoring in 5x9s in percentage format to 3 decimal places.

5A. Internal Technical Infrastructure - continued

5A.4. Internal Security Operations

Objective	Sub-Activities	Success Indicators
Maintain strong internal security operations to appropriate standards of best practice in order to avoid service disruption and data loss.	Strengthen APNIC CSIRT to serve all incident response coordination needs. Improve vulnerability assessment and reporting procedures consistent with ISO 27001 requirements. Redesign security performance reporting to improve transparency. Support product teams with awareness of common vulnerabilities and secure coding practices.	1. Achieve a successful ISO 27001 surveillance audit. 2. Mitigate all critical vulnerability reports within seven days and resolve within 30 days.

5A.5. Enterprise Applications and IT Support

Provide secure and reliable enterprise technologies to support Secretariat operations.	Provide all required IT systems and platform support to all APNIC staff	1. Meet SLA of two business day response for internal IT support.

5A. Internal Technical Infrastructure - continued

INVESTMENTS

5A.6. Security Infrastructure Upgrades

Objective	Sub-Activities	Success Indicators
Harden APNIC systems and security infrastructure to reduce security risks and protect Member information.	Improve infrastructure security and resilience of APNIC systems across areas including: • Privilege access management (PAM) for end users • Zero-trust Network / Server access (ZTNA) • Information security compliance tool (ISO27001) • Application security orchestration and correlation (ASOC).	1. Migrate staff to ZTNA for corporate network access by Q3. 2. Introduction of development code vulnerability scanning by Q3.

5A. Internal Technical Infrastructure - continued

5A.7. Technical Infrastructure and Operations Improvement

Objective	Sub-Activities	Success Indicators
Improving existing technical infrastructure & operations for stable systems, faster response to incidents, and enhanced service management overall.	Improve the process flow for IT support using ITIL principles. Deploy new ITSM tools to replace RT for IT service requests and incident management. Improve 24x7 Tier-1 support by exploring various outsourcing options. Migrate older hosts to a more modern operating system to improve security and stability.	1. Migrate 80% of hosts to operating systems with long term support.

5B. Finance and Business Services

Provide efficient and robust finance and business services and facilities to effectively support APNIC's operations.

OPERATIONS

5B.1. Financial Services

Objective	Sub-Activities	Success Indicators
Transparent and efficient management and reporting of APNIC's financial affairs.	Meet APNIC's annual financial obligations, including the annual statutory audit, tax compliance and budgeting and reporting. Review and improve financial systems and processes to ensure financial management and reporting remains fit for purpose.	1. Achieve a successful audit of APNIC's annual financial accounts. 2. Provide APNIC EC with accurate financial reporting each quarter. 3. EC approval of the annual budget before 31 December.

	PY	OPEX	CAPEX
Operations	14.79	3,246,138	10,000
Investments	0.10	34,349	618,700
Workstream total	14.89	3,280,487	628,700

5B. **Finance and Business Services** - continued

5B.2. Business Services

Objective	Sub-Activities	Success Indicators
Effectively support Secretariat operations and travel.	Provide responsive administrative support services to support an agile, safe and eco-friendly working environment. Manage travel processes to ensure travel is safe, efficient and within budget. Maintain current workplace health and safety (WHS) policies and ensure office and home office WHS compliance.	1. Zero WHS incidents due to APNIC-controlled environmental factors.

5B. **Finance and Business Services** - continued

5B.3. Business Intelligence and Data Analytics

Objective	Sub-Activities	Success Indicators
Improve decision making from the increased availability and accessibility of relevant, cross-system data sources and analysis.	Maintain organization-wide data model and data governance structure, accessed by a business intelligence facility that integrates data from a range of systems to produce better analysis and consistent reporting. Develop and implement a corporate information dashboard.	1. 100% of critical business data from all five pillars of activities stored in APNIC data warehouse. 2. 100% report automation data sourced from data warehouse.

5B. Finance and Business Services - continued

INVESTMENTS

5B.4. Workspace improvement

Objective	Sub-Activities	Success Indicators
Ensure APNIC's offices are safe and fit for purpose.	Repair structural subsidence issues to the Cordelia St premises. Improve office facilities to better integrate with hybrid work practices. Begin preparations for APNIC's relocation to its new office premises in 2026, including management of contracts, design, and technical specifications.	1. Repairs and upgrades completed in line with budget. 2. Finalise contract with APIDT on new office space by end Q4.

5C. Employee Experience

Attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organization and community expectations.

OPERATIONS

5C.1. Organisational Development

Objective	Sub-Activities	Success Indicators
Optimise organisational structure, capability, agility and culture for the realisation of APNIC's vision and mission.	Provide quality training and support resources to address emerging development needs. Develop an engagement framework for staff located across the region. Develop a comprehensive succession plan. Nurture a respectful, safe, diverse and inclusive culture. Better organise internal information channels and communicate more relevant content to internal audiences.	1. Meet or exceed LinkedIn Glint global benchmark for employee engagement (76). 2. Meet or exceed LinkedIn Glint global benchmark for diversity (75). 3. Meet or exceed LinkedIn Glint global benchmark for culture (73).

	PY	OPEX	CAPEX
Operations	6.05	2,116,227	-
Investments	-	-	-
Workstream total	**6.05**	**2,116,227**	**-**

5C. Employee Experience - continued

5C.2. Talent attraction and retention

Objective	Sub-Activities	Success Indicators
Attract and retain the best possible talent to deliver APNIC's strategy.	Improve recruitment practices to recruit talent faster, and iterate the onboarding program to provide meaningful information to new talent.	1. Employee turnover is at or below the Human Capital Index global benchmark of 5-15%. 2. All vacancies are filled within 90 days.

5C. Employee Experience - continued

5C.3. Talent attraction and retention

Objective	Sub-Activities	Success Indicators
Ensure that all people practices for APNIC are inclusive, legally compliant and meet global standards.	Ensure that policies and practices meet global HR standards and meet user needs. Provide staff with information that allows them to manage their personal information, understand their role and performance requirements, and ongoing assistance relating to their employment. Provide effective and timely migration assistance where required. Develop meaningful recognition and reward guidelines and maintain competitive remuneration practices.	1. Meet or exceed LinkedIn Glint global benchmark for employee reward (66). 2. No adverse action results from any employment or migration matter.

5D. Governance

Provide the legal, economic and governance framework and professional services to support APNIC's operations to minimise risk, ensure compliance and continuity, and remain a socially and environmentally responsible organization.

OPERATIONS

5D.1. Executive Council (EC) Support

Objective	Sub-Activities	Success Indicators
Facilitate EC processes and activities of the highest integrity.	Assist EC members to perform their roles, including onboarding, meeting support, travel management, administration and providing information as required.	1. Achieve a satisfaction rating of at least 6/7 from a survey of EC members.

	PY	OPEX	CAPEX
Operations	3.42	1,150,479	-
Investments	-		-
Workstream total	3.42	1,150,479	-

5D. Governance - continued

5D.2. Corporate governance, legal support and risk management

Objective	Sub-Activities	Success Indicators
Manage and minimise APNIC's risks through robust corporate governance and compliance with legal obligations.	Maintain APNIC's risk register, BCP framework (including regular testing), ISO 9001 certification, insurance arrangements, and internal policy compliance. Implement a new corporate trustee structure to improve governance. Strengthen EC election integrity with an improved nominee Code of Conduct and due diligence processes.	1. Complete quarterly risk reporting to the EC. 2. Achieve a successful ISO 9001 surveillance audit.

2023 Budget Summary

Activity	PY	%	OPEX (AUD)	%	CAPEX (AUD)	%
1. Membership	**22.74**	**18%**	**5,491,454**	**16%**	**-**	**-**
1A. Member Services	12.78	10%	2,859,774	8%	-	-
1B. Membership Products	8.27	7%	1,656,941	5%	-	-
1C. Membership Reporting	1.69	1%	974,739	3%	-	-
2. Registry	**15.08**	**12%**	**4,231,731**	**13%**	**-**	**-**
2A. Registration Services	4.89	4%	773,260	2%	-	-
2B. Registry Products	9.50	8%	2,701,999	8%	-	-
2C. Policy Development	0.69	1%	756,472	2%	-	-
3. Development	**37.42**	**30%**	**10,359,105**	**31%**	**58,500**	**5%**
3A. APNIC Conferences	4.35	3%	1,789,436	5%	33,500	3%
3B. Foundation Support	1.40	1%	-	-	-	-
3C. Community Engagement	6.24	5%	2,243,177	7%	-	-
3D. Community Participation	3.77	3%	758,604	2%	-	-
3E. APNIC Academy	19.65	16%	4,364,434	13%	15,000	1%
3F. Internet Infrastructure Support	2.01	2%	1,203,453	4%	10,000	1%
4. Information	**8.74**	**7%**	**2,918,493**	**9%**	**45,000**	**4%**
4A. Information Products	7.79	6%	1,889,141	6%	-	-
4B. Research and Analysis	0.95	1%	1,029,352	3%	45,000	4%
5. Capability	**40.54**	**33%**	**10,791,783**	**32%**	**995,900**	**91%**
5A. Internal Technical Infrastructure	16.18	13%	4,244,591	13%	367,200	33%
5B. Finance and Business Services	14.89	12%	3,280,487	10%	628,700	57%
5C. Employee Experience	6.05	5%	2,116,227	6%	-	-
5D. Governance	3.42	3%	1,150,479	3%	-	-
Total	**124.52**	**100%**	**33,792,566**	**100%**	**1,099,400**	**100%**

Note: Some numbers presented in this table may not add up precisely to the totals provided due to rounding.

Person Year Distribution

Activity

Activity	Total PY	Comm	DG	Fin	I&D	P&P	Prod Dev	Srvcs	SE
1. Membership	**22.74**	**0.60**	**0.95**	**2.10**	**0.50**	**-**	**8.05**	**10.54**	**-**
1A. Member Services	12.78	0.05	0.15	1.70	-	-	1.10	9.78	-
1B. Membership Products	8.27	0.05	0.05	-	0.50	-	6.95	0.72	-
1C. Membership Reporting	1.69	0.50	0.75	0.40	-	-	-	0.04	-
2. Registry	**15.08**	**0.80**	**0.52**	**-**	**1.02**	**-**	**7.30**	**5.44**	**-**
2A. Registration Services	4.89	0.40	-	-	-	-	-	4.49	-
2B. Registry Products	9.50	0.05	0.50	-	1.02	-	7.30	0.63	-
2C. Policy Development	0.69	0.35	0.02	-	-	-	-	0.32	-
3. Development	**37.42**	**4.65**	**0.88**	**0.20**	**21.27**	**0.97**	**5.50**	**1.35**	**2.60**
3A. APNIC Conferences	4.35	2.50	0.05	-	0.69	-	1.00	0.11	-
3B. Foundation Support	1.40	-	0.35	0.20	0.08	0.67	0.10	-	-
3C. Community Engagement	6.24	0.45	0.47	-	1.19	-	0.50	1.13	2.50
3D. Community Participation	3.77	1.70	-	-	0.02	-	2.05	-	-
3E. APNIC Academy	19.65	-	0.01	-	17.28	0.30	1.85	0.11	0.10
3F. Internet Infrastructure Support	2.01	-	-	-	2.01	-	-	-	-
4. Information	**8.74**	**2.35**	**4.01**	**-**	**0.61**	**-**	**1.70**	**0.07**	**-**
4A. Information Products	7.79	2.25	3.16	-	0.61	-	1.70	0.07	-
4B. Research and Analysis	0.95	0.10	0.85	-	-	-	-	-	-
5. Capability	**40.54**	**0.60**	**4.04**	**7.50**	**13.25**	**11.10**	**3.45**	**0.60**	**-**
5A. Internal Technical Infrastructure	16.18	-	-	-	12.73	-	3.45	-	-
5B. Finance and Business Services	14.89	-	1.90	6.30	0.01	6.53	-	0.15	-
5C. Employee Experience	6.05	0.60	0.12	-	0.51	4.47	-	0.35	-
5D. Governance	3.42	-	2.02	1.20	-	0.10	-	0.10	-
Total	**124.52**	**9.00**	**10.40**	**9.80**	**36.65**	**12.07**	**26.00**	**18.00**	**2.60**

Note: Some numbers presented in this table may not add up precisely to the totals provided due to rounding.

Investments by Workstream (APNIC and APNIC Foundation Funded)

Pillar	Workstream	Investment Activity	PY	OPEX	CAPEX
1. Membership					
	1A. Member Services	1A.2. Membership Product Development	2.85	494,726	-
2. Registry					
	2B. Registry Products	2B.3. Registry Product Development	3.05	518,207	-
	2B. Registry Products	2B.4. Registry re-architecture	1.20	203,885	-
	2B. Registry Products	2B.5. Five-9s Availability for Highly Critical Services	0.85	170,570	
3. Development					
	3B. Foundation Support	3B.1. Foundation support	1.40	-	-
	3E. APNIC Academy	3E.8. Academy Product Development	0.80	145,767	-
			2.40	570,000	
	3E. APNIC Academy	3E.9. Curriculum for Non-Technical Audiences	0.15	33,589	-
			-	80,021	
	3F. Internet Infrastructure Support	3F.3. M-Root Deployment Support	0.40	72,884	-
			0.92	701,942	
4. Information					
	4A. Information Products	4A.3. Information Product Development	1.75	441,319	-
	4A. Information Products	4A.4 APNIC website refresh	1.50	260,625	
5. Capability					
	5A. Internal Technical Infrastructure	5A.6. Security Infrastructure Upgrades	0.60	337,325	
	5A. Internal Technical Infrastructure	5A.7. Technical infrastructure and operations improvements	0.85	94,878	
	5B. Finance and Business Services	5B.4. Workspace improvement	0.10	34,349	618,700
APNIC Investment Total			**15.50**	**2,208,124**	**618,700**
APNIC Foundation Investment Total			**3.32**	**1,351,963**	**-**
GRAND TOTAL			**18.82**	**4,160,087**	**618,700**

APNIC Foundation investments are marked in **green**.

Note: Some numbers presented in this table may not add up precisely to the totals provided due to rounding.

APNIC Foundation Funded Activity (Operations and Investments)

Workstream	Activity	PY	OPEX	CAPEX
3E. APNIC Academy	3E.1. Academy Product Management	4.35	910,500	-
3E. APNIC Academy	3E.2. Training Events	5.08	867,500	-
3E. APNIC Academy	3E.3. Community Trainers Network	3.80	905,600	-
3E. APNIC Academy	3E.8. Academy Product Development	2.40	570,000	-
3E. APNIC Academy	3E.9. Curriculum for Non-Technical Audiences	-	80,021	-
3F. Internet Infrastructure Support	3F.2. Community Honeynet and Security Threat Sharing Platform	-	77,000	-
3F. Internet Infrastructure Support	3F.3. M-Root Deployment Support	0.92	701,942	-
4B. Research and Analysis	4B.1. Conducting research and measurements	-	289,855	-
TOTAL		**16.55**	**4,402,418**	**-**

Note: Some numbers presented in this table may not add up precisely to the totals provided due to rounding.

APNIC's 2023 Budget Submission provides more details on the 2023 APNIC Budget and is available with the Minutes of the December 2022 EC meeting.

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APNIC

addressing the Internet in the Asia Pacific

2022 Annual Report

Contents

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Amazon

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Director of Operation Management Department,
China Internet Network Information Center

Sumon Ahmed Sabir
Chief Technology Officer,
Fibre@Home Limited

Paul Wilson, Ex-officio
Director General,
APNIC

WELCOME FROM THE DIRECTOR GENERAL

After two years of COVID, 2022 was a much better year as economies opened up and allowed the return of visitors and face-face events. With resumption of APNIC engagements, it was great to catch up with so many community members, including old friends and quite a few newcomers who had been just a face on Zoom. The 'buzz' at APNIC 54 was noticed by everyone who went.

As travel was reopened gradually through the year, 2022 became a very busy year, with greater demand for engagement both online and in-person. What follows are some of the highlights, but as always there's more detail in this Annual Report which shows what a productive year it was.

Nice to see you again!
APNIC delivered a total of 141 instructor-led training courses to 3,849 participants. These included training at 30 technical events around the region and at APNIC 54 in Singapore, which attracted 563 on-site participants. APNIC engagements increased from 302 in 2021 to 420 in 2022, and that was without a full year of travel activity.

Developing an online community.
Even with return to travel, the demand for online training continued to grow, with the APNIC Academy adding 8,385 new users, and trainees completing 2,010 courses and 11,906 online labs. Twelve new virtual labs were developed and launched in 2022.

The new community platform, Orbit, was also launched at APNIC 54. Orbit is an evolution of mailing lists with added social networking features, and already has more than 8,700 users. If you haven't tried it yet, I encourage you to do so.

Staying secure, inside and out.
2022 was a big year in Internet security. APNIC supported 45 security-related events, with training, speakers, sponsorship, and/or technical support. The Community Honeynet added five new partners and expanded to 100 sensors, capturing data on security threats around our region. CERTs in Tonga, Korea, Bhutan and New Zealand were also supported by the APNIC team.

Internal security at APNIC was upgraded, with ISO27001 Information Security Management System certification achieved. The vulnerability reporting program was also expanded, along with various internal security improvements.

Reaching historical resource holders.
APNIC worked hard in 2022 to contact historical IPv4 resource holders, and transition them to APNIC membership. It's a huge challenge to reach these resource holders, with some records nearly 30 years old, and many changes of organizations and contacts.

Through this project, almost 3.4 million of the total 7.3 million IPv4 addresses in question were claimed by holders, and contact with the remaining holders will continue in 2023, before remaining unclaimed space is placed in reserve.

Investing in products to help Members.
The user interface of MyAPNIC was overhauled and a new dashboard developed, along with improvements to election processes for voter eligibility, proxy appointment, and other workflows.

WELCOME FROM THE DIRECTOR GENERAL – CONTINUED

The handling of ROAs during resource transfers was improved, with development of pre-validation of RPKI changes to avoid costly errors. A prototype registry API was developed for public testing ahead of deployment in 2023. Routing and suspicious traffic alerts were also added to DASH.

There's a great deal more to discover about product and service developments in 2022, in the report that follows.

As 'DG', I want to sincerely thank all APNIC Members, and all members of the APNIC

community, for your continued cooperation in 2022, and also for your strong support in the 2022 APNIC Survey. At the APNIC Secretariat we strive for continuous improvement, and the latest positive results were a proud moment for all of us.

Even while support and satisfaction remain high, we see room and demand for more, and we promise to continue to deliver our very best to you.

Thanks again.

Paul Wilson

WELCOME FROM THE EXECUTIVE COUNCIL CHAIR

On behalf of the APNIC EC, I'm happy to present the 2022 APNIC Annual Report.

2022 was a challenging year as we emerged from the worst of the COVID pandemic but it was also a productive year. Paul covered most of the highlights, but I have a few thoughts to share.

Positive feedback

Feedback from the 2022 Survey was very positive. Member satisfaction was higher than previous surveys, with quality of services at 94%, value of services at 94% and value of membership at 92%. The number of "excellent" ratings increased from the previous survey: from 39% to 54% for service quality, 40% to 54% for service value, and 39% to 51% for membership value.

Member satisfaction with APNIC's transparency remained high at 89%, and 93% of Members agreed that APNIC was respected in the Internet community.

The EC thanks everyone who took time to respond to the survey. There were 1,622 responses, 29% in a non-English language. The results will help APNIC to serve you better: contributing to the 2023 Activity Plan, and also to the 2024-2027 Strategic Plan which will be developed this year.

Looking back... and forward

2022 was my final full year as the Chair of the APNIC EC, as I will step down from the EC at the end of the APNIC 55 AGM. I'd like to reflect not just on the last 12 months but the past 12 years since I was first elected.

APNIC has developed and matured greatly during that time:

- the number of Members more than tripled, from 2,947 to 9,268, and satisfaction with APNIC's service quality increased, from 81% to 94%.

- Tens of thousands of network operators participated in APNIC training.

- Support for NOGs and Internet infrastructure deployment grew enormously.

- The APNIC Foundation was established and helped to raise funding for development work.

- The new security team brought knowledge to the community and supported the birth of new CERTs in the region.

- New services were launched including the APNIC Academy, online technical assistance, and information products such as the APNIC Blog, DASH, REx and NetOX.

- APNIC executed its core role as an RIR. Number resources were managed efficiently, within policy and SLAs, with low levels of fraud.

- IPv6 adoption in the region grew from less than 1% to nearly 40%.

- RPKI launched in 2012 and adoption has grown quickly – 35% of Asia and 65% of Oceania are publishing ROAs.

- The quality of APNIC's reporting and planning improved, as did transparency and accountability.

WELCOME FROM THE EXECUTIVE COUNCIL CHAIR – CONTINUED

This is just a snapshot of the past 12 years, but it illustrates a very important point: APNIC has been a well-run, financially stable, transparent organization providing critical services to Members and the community for a long time. And judging by the Survey results over the past decade, this is something that Members agree with.

As we enter APNIC's 30th year, we must be careful not to lose what we, the Members of APNIC, have helped guide and build. Your choices of EC leadership, and your input into the future direction of APNIC, are very important.

As the new Strategic Plan is developed this year, for 2024 and beyond, and as APNIC enters its next decade, I will be watching and participating where I can.

Thank you to all Members, EC members, the APNIC Secretariat, and the wider Internet community for your support over the past 12 years and in particular, my last seven years as Chair. It has been a rewarding and fun ride.

I wish you all the best and encourage you to help develop the successful path that we have all forged together.

Gaurab Raj Upadhaya

Vision and Mission

APNIC's Four Year Strategic Plan (2020-2023) introduced an updated Vision and Mission, and a new structure for activities under five strategic pillars (detailed on the following page).

[VISION] [MISSION]

A global, open, stable, and secure Internet.

To provide essential services as a Regional Internet Registry, and to support Internet development in the Asia Pacific region.

PURPOSE

To serve our community.

IDENTITY

A not-for-profit trusted authority on Internet infrastructure.

VALUES

Passion
Trust
Curiosity
Accountability
Inclusion

CREDO

We are APNIC.
One team dedicated to making a positive impact.
Our ambition will be achieved by working together.
Trust and respect for each other are not negotiable.
Inclusion and diversity really matter to us.
We take pride and excel in everything we do.
We are curious. We are accountable.
We are APNIC.

Strategic Pillars

1. MEMBERSHIP

Develop and deliver world-class products and services required by APNIC Members.

Engage with Members in building a global, open, stable and secure Internet.

Ensure accountable governance of APNIC as a membership organization.

2. REGISTRY

Develop and deliver world class registry products and services required by the community.

Ensure responsible stewardship of Internet number resources and deliver accurate registry services.

3. DEVELOPMENT

Invest in sustainable development of the regional Internet community, industry and infrastructure.

Build capacity for best-practice Internet operations across the Internet technical community.

4. INFORMATION

Support Internet development with needed network information services, and research outcomes which are of demonstrated value to the community.

5. CAPABILITY

Provide stable and secure technical infrastructure to support APNIC operations and services.

Develop a strong service culture driven by people committed to APNIC's vision and values.

Sustain a healthy and resilient organization.

APNIC Workstreams

The Four Year Strategic Direction (2020-2023) defines 18 workstreams, across the five pillars, as follows. Each workstream includes a number of activities that are described in this plan.

1. MEMBERSHIP

1A. MEMBER SERVICES
Deliver excellence in service and value to Members through active and quality engagement.

1B. MEMBERSHIP PRODUCTS
Apply best practice in development of membership products that meet Members' needs and exceed their expectations.

1C. MEMBERSHIP REPORTING
Ensure that APNIC remains fully accountable to its Members, by providing timely and accurate information about APNIC operations.

2. REGISTRY

2A. REGISTRATION SERVICES
Provide delegation and registration services for Internet numbers (ASNs, IPv4, IPv6) according to community developed policies.

2B. REGISTRY PRODUCTS
Maintain an accurate number registry and reliable registry services.

2C. POLICY DEVELOPMENT
Facilitate the open Policy Development Process to ensure resource policies in the APNIC region are developed and implemented in a neutral manner consistent with agreed rules and community expectations.

3. DEVELOPMENT

3A. APNIC CONFERENCES
Deliver engaging and relevant APNIC conferences for learning, sharing ideas and experience, professional networking, and Internet policy development.

3B. FOUNDATION SUPPORT
Provide financial and operational support to ensure the success of the APNIC Foundation.

3C. COMMUNITY ENGAGEMENT
Build and maintain close and meaningful relationships between APNIC and its various communities.

3D. COMMUNITY PARTICIPATION
Encourage awareness, diversity, participation, and leadership in APNIC processes, events, and activities.

3E. APNIC ACADEMY
Scale up training and technical assistance infrastructure with high-quality training content and curriculum.

3F. INTERNET INFRASTRUCTURE SUPPORT
Promote and support the deployment of critical Internet infrastructure and deploy tools for operational infrastructure monitoring.

4. INFORMATION

4A. INFORMATION PRODUCTS
Provide meaningful information services to the communities APNIC serves.

4B. RESEARCH AND ANALYSIS
Analyse the pressures shaping the evolution and future demands of Internet names and numbers infrastructure, and their impacts.

5. CAPABILITY

5A. INTERNAL TECHNICAL INFRASTRUCTURE
Provide stable and secure technical infrastructure to support APNIC operations and services.

5B. FINANCE AND BUSINESS SERVICES
Provide efficient and robust finance and business services and facilities to effectively support APNIC's operations.

5C. EMPLOYEE EXPERIENCE
Attract, develop and retain talented, service-oriented people to deliver APNIC's mission and exceed organization and community expectations.

5D. GOVERNANCE
Provide the legal, economic and governance framework and professional services to support APNIC's operations to minimize risk and ensure compliance and continuity.

2022 at a Glance

IPv6 growth
2A.1

Members with IPv6 addresses
69.47%

Asia Pacific IPv6 capability
39.74%

2022

Blog
4A.1
79,707
Views per month

Information tools monthly users:
4A.2
394 | 2,210 | 3,559
DASH — **REx** — **NetOX**

Available resources
2A.1
0.5% | 90.3% | 0.7%
IPv4 — **IPv6** — **ASNs**

Security
3F.2

20 Community Honeynet partners

45 Security-related events

ISO27001 certification achieved

Conferences
3A.1

APRICOT 2022
886 remote participants

3,854 YouTube views
870.49 YouTube hours viewed

APNIC 54
595 remote participants and
563 in-person participants

2,565 YouTube views
537.34 YouTube hours viewed

Training
3E.2

Instructor-led training
141 courses

3,849 participants

18 live webinars
1,048 attendees

Self-paced training

2,010 course completions

11,906 labs launched

8,385 new accounts

Financial Performance Summary

OPERATING EXPENSES BY OUTCOME AREA

In addition to standard financial reporting, APNIC also reports activities and expenses under the five pillars and 18 workstreams detailed on page x.

The chart on this page illustrates 2022's actual operating expenses compared to the budget in the 2022 Activity Plan. The percentage for each area indicates the proportion of the total budget it represents.

For more details on APNIC's 2022 finances, please refer to pages 97-100 to view:

- Financial Report by Activity
- Statement of Financial Position
- Statement of Income
- Cash Flow Statement

Note: Some numbers presented in this chart may not add up precisely due to rounding.

Notes on the Activities

APNIC's activities are reported in this document under the 18 workstreams and five pillars described in the previous section:

Membership

Registry

Development

Information

Capability

THE ACTIVITIES
The Activities are described as either 'Operations' or 'Investments'.

'Operations' includes all ongoing activities required for continued provision of APNIC services.

'Investments' are discrete project activities that result in new products, services, or improvements to APNIC services. Where these investments are funded by the APNIC Foundation (not Member funds), it is clearly noted.

SUCCESS INDICATORS
The status of Success indicators in the document's following pages is denoted by a coloured circle for at-a-glance reference on progress.

● **Completed**   ● **At least 90% complete**   ● **Less than 90% complete**

A table summarizes the resources (financial and human) needed to successfully complete the operations and investments in each workstream.

All monetary figures quoted are in Australian Dollars (AUD).

		Budget	Actual
1	PY	22.42	19.88
2	Expenses	5,441,868	4,685,680
3	CAPEX	-	7,935

1 **PY:** A 'person year', representing the amount of work done by one-full-time staff member in one year. Most activities incur a staffing cost, expressed in PY, and in most cases, this comprises contributions from multiple employees. For example: a PY of 1.6 may be made up of four employees who each contribute 40% of their time for a period of one year (0.4 PY).

2 **Expenses:** Refers to all operational costs directly incurred by the activity.

3 **CAPEX**: Provides the provision for capital expenditure required by the activity.

1. MEMBERSHIP

OBJECTIVES

Deliver world-class products and services required by APNIC Members.
Engage with Members in building a global, open, stable and secure Internet.
Ensure accountable governance of APNIC as a membership organization.

WORKSTREAMS

1A.   Member Services
1B.   Membership Products
1C.   Membership Reporting

MEMBERSHIP - SUMMARY

	Budget	Actual
PY	24.93	24.28
Expenses	5,509,241	5,234,148
CAPEX	-	-

1A. Member Services

OPERATIONS

1A.1. Member service delivery

The Member Services team handled 15,313 tickets created by Member and community enquiries, 1,337 voice calls and 3,552 online chat sessions. In addition, more than 10,655 Member invoices and receipts were processed. The APNIC Helpdesk maintained its standing commitment to respond to Member queries within two business days.

Helpdesk service satisfaction remained high with 95% of respondents providing 'excellent' and 'above average' scores (749/792 responses). All negative feedback was actively resolved by Member Services staff.

There were 268 Member Services engagements across 32 economies, covering RPKI, resource transfers, technical assistance, awareness of upcoming events, and the historical resources transition project.

Quarterly meetings were held with all National Internet Registries (NIRs), including a workshop at IRINN's New Delhi office in November and a three-day hosted visit of 19 delegates from IDNIC in Brisbane in June.

Thirty-five cases of attempted fraud in new Member applications were detected and prevented.

RESOURCING

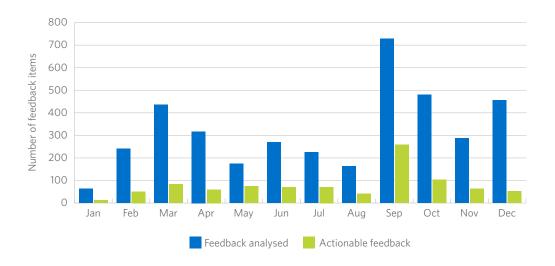|	Budget	Actual
PY	14.67	14.13
Expenses	2,989,124	2,799,996
CAPEX	-	-

1A. **Member Services** - continued

1A.2. Member experience

Members and the community provided 3,842 feedback items on topics including payments and billing, conferences, website user experience and training. 940 items required action and were resolved.

COMMUNITY FEEDBACK ANALYSIS

There were 421 feedback engagements (user experience tests, surveys, and one-on-one interviews) held with Members during the year to help improve website usability, payment and billing processes, and design improvements to MyAPNIC and APNIC Academy.

The APNIC website achieved an online System Usability Scale score of 68/100 after improvements to page design, content, and navigation (including mobile).
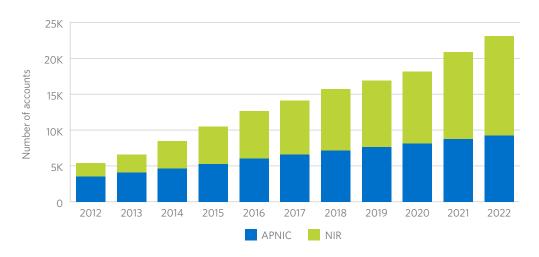
1A. **Member Services** - continued

1A.3. Membership development

New Member outreach was conducted at the ITCN Expo in Pakistan, PCTA in the Philippines, CommunicAsia in Singapore, bdNOG 14 in Bangladesh, SANOG 38 in Nepal, LKNOG in Sri Lanka and the APNIC conferences.

A total of 824 new Members joined APNIC, including six from Service Partners and 15 from Member referrals. The net new Members added (including closures and reactivations) was 500, including 150 Associate Members joining APNIC as a result of the historical resources transition project.
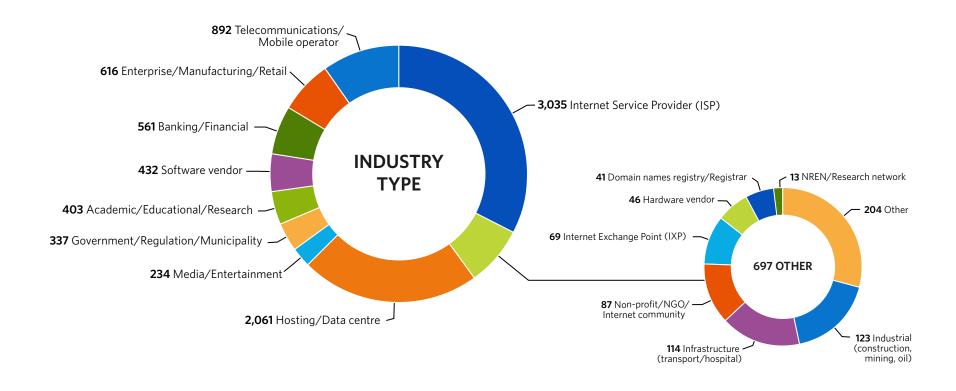
MEMBERSHIP GROWTH

At the end of 2022, APNIC direct membership stood at 9,268, an increase of 5.7% on 2021. In addition, there were 13,807 NIR sub accounts, after growth of 14.2% in 2022.

Total combined membership was 23,075.

1A. Member Services - continued

MEMBERSHIP INDUSTRY TYPE

892 Telecommunications/Mobile operator

616 Enterprise/Manufacturing/Retail

561 Banking/Financial

432 Software vendor

403 Academic/Educational/Research

337 Government/Regulation/Municipality

234 Media/Entertainment

2,061 Hosting/Data centre

INDUSTRY TYPE

3,035 Internet Service Provider (ISP)

41 Domain names registry/Registrar

46 Hardware vendor

69 Internet Exchange Point (IXP)

87 Non-profit/NGO/Internet community

114 Infrastructure (transport/hospital)

13 NREN/Research network

204 Other

123 Industrial (construction, mining, oil)

697 OTHER

1A. **Member Services** - continued
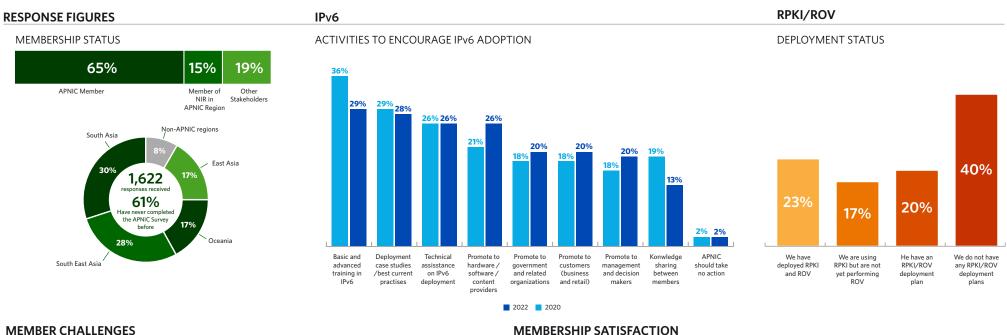
1A.4. APNIC Survey

The 12th APNIC Survey was conducted from 13 June to 7 July 2022. The survey questionnaire was developed following remote interviews with 37 Members and stakeholders across 25 economies (including all seven National Internet Registries (NIRs)). Both the survey and remote interviews were conducted by independent researcher, Survey Matters.

A total of 1,622 responses were received, with 61% participating in the APNIC Survey for the first time, and 29% of respondents used the translated versions (available in 10 languages). The final results were reported at APNIC 54.

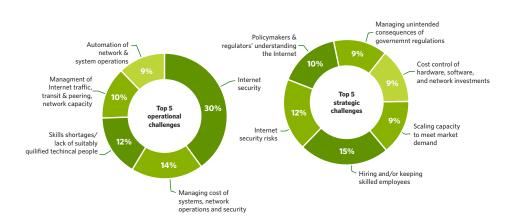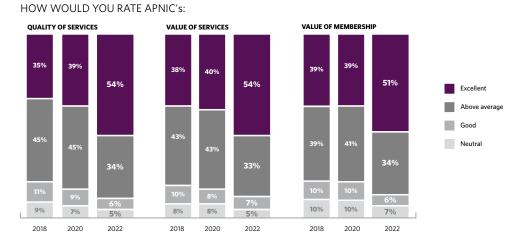A snapshot of the survey results is included on the following page.

1A. Member Services - continued

RESPONSE FIGURES

MEMBERSHIP STATUS

65%	15%	19%
APNIC Member	Member of NIR in APNIC Region	Other Stakeholders

1,622 responses received
61% Have never completed the APNIC Survey before

- South Asia 30%
- Non-APNIC regions 8%
- East Asia 17%
- Oceania 17%
- South East Asia 28%

IPv6

ACTIVITIES TO ENCOURAGE IPv6 ADOPTION

Activity	2022	2020
Basic and advanced training in IPv6	29%	36%
Deployment case studies /best current practises	28%	29%
Technical assisstance on IPv6 deployment	26%	26%
Promote to hardware / software / content providers	26%	21%
Promote to government and related organizations	20%	18%
Promote to customers (business and retail)	20%	18%
Promote to management and decision makers	20%	18%
Konwledge sharing between members	13%	19%
APNIC should take no action	2%	2%

■ 2022 ■ 2020

RPKI/ROV

DEPLOYMENT STATUS

23%	17%	20%	40%
We have deployed RPKI and ROV	We are using RPKI but are not yet performing ROV	He have an RPKI/ROV deployment plan	We do not have any RPKI/ROV deployment plans

MEMBER CHALLENGES

OPERATIONAL CHALLENGES

Top 5 operational challenges

- Automation of network & system operations 9%
- Internet security 30%
- Managing cost of systems, network operations and security 14%
- Skills shortages/ lack of suitably quilified techincal people 12%
- Managment of Internet traffic, transit & peering, network capacity 10%

STRATEGIC CHALLENGES

Top 5 strategic challenges

- Policymakers & regulators' understanding the Internet 10%
- Managing unintended consequences of governemnt regulations 9%
- Cost control of hardware, software, and network investments 9%
- Scaling capacity to meet market demand 9%
- Hiring and/or keeping skilled employees 15%
- Internet security risks 12%

MEMBERSHIP SATISFACTION

HOW WOULD YOU RATE APNIC's:

QUALITY OF SERVICES

	2018	2020	2022
Excellent	35%	39%	54%
Above average	45%	45%	34%
Good	11%	9%	6%
Neutral	9%	7%	5%

VALUE OF SERVICES

	2018	2020	2022
Excellent	38%	40%	54%
Above average	43%	43%	33%
Good	10%	8%	7%
Neutral	8%	8%	5%

VALUE OF MEMBERSHIP

	2018	2020	2022
Excellent	39%	39%	51%
Above average	39%	41%	34%
Good	10%	10%	6%
Neutral	10%	10%	7%

■ Excellent
■ Above average
■ Good
□ Neutral

1A. **Member Services** - continued

INVESTMENTS

1A.5. Historical resources transition ➡️|

APNIC reviewed and classified 7,341,824 historical IPv4 addresses, registered to 3,377 different holders, not managed under an APNIC account.

Attempts were made to contact the address holders to advise them of the need to open an APNIC account to continue to receive registration services, with 988 reached. Contact attempts with an unresponsive 1,587 holders will continue in 2023, while an additional 802 address holders have been deemed uncontactable.

The project is expected to be completed in early 2023 and all unclaimed address space will be placed into 'reserved' status.

	Holders	Percentage	Addresses
Attempting to contact holders (no response)	1,587	46.99%	2,676,480
Uncontactable holders	802	23.74%	1,062,144
Addresses retained / being claimed by holders	822	24.37%	3,389,184
Addresses voluntarily returned to APNIC	160	4.73%	188,416
Routed without authority (reclaimed by APNIC)	6	0.17%	25,600
Total number of holders	**3,377**	**100%**	**7,341,824**

1A. Member Services - continued

SUCCESS INDICATORS – 1A

Targets	Results	Status
Increase Member outreach touchpoints by at least 20% from 148 in 2021	268 touchpoints	🟢
Maintain helpdesk SLA of two business day response to enquiries	99.99% SLA	🟢
Maintain service satisfaction ratings of at least 93% "excellent and above average" feedback	95%	🟢
Proactive Member service engagement in at least 47 economies	32 economies	🔴
Conduct quarterly meetings with all NIRs	4 out of 4	🟢
100% of improvement suggestions are assessed and followed up	100% resolved	🟢
Increase engagement with User Feedback Group at least 20% from 298 in 2021	421 engagements	🟢
Achieve online System Usability Scale (SUS) score of 68/100	68/100	🟢

1A. **Member Services** - continued

SUCCESS INDICATORS – 1A - CONTINUED

Targets	Results	Status
At least eight membership development activities in target economies	8 out of 8	🟢
Achieve at least 492 new Members (net) in 2022	500	🟢
Increase total survey response by at least 10% from 1,624 in 2020	1,622	🟠
Achieve at least 10% of responses by new survey participants	61%	🟢
Attempt contact with all historical resource holders	Contact attempted with 3,377	🟢
All 7,341,824 historical IPs are either registered to a current APNIC account or deregistered	2,676,480 remain	🔴
All remaining unused resources are claimed, transferred, or returned to APNIC	2023 completion	🔴

1B. Membership Products

OPERATIONS

1B.1. Membership product management

MyAPNIC achieved a user satisfaction rating of 81% and maintained availability of 99.99%.

The election platform (BigPulse) supported a record 1,270 Members voting in the 2022 EC election at APNIC 53, with 460 users supported at the NRO NC and SIG elections at APNIC 54.

RESOURCING

	Budget	Actual
PY	9.40	8.82
Expenses	1,844,666	1,665,309
CAPEX	-	-

1B. **Membership Products** – continued

INVESTMENTS

1B.2. Membership product development ➞|

Planned goals completed:

- Implement a new eduroam API
  · An eduroam API using the Okta SSO was deployed.
- Develop an internal LDC graduation process
  · Aspects of the Least Developed Country (LDC) graduation process were automated to eliminate human error.
- Add automated workflow to support the historical resources transition project
  · Updated ARMS and billing processes to allow historical resource holders to convert to Associate Members. Added functionality to allow Helpdesk staff to easily distinguish historical resource holding accounts.
- Improve the quality and workflow of 'Invalid Contact' reports
  · Streamlined the 'Invalid Whois Contact' reporting process by providing an instant feedback mechanism for information validated on the form.
- Overhaul MyAPNIC information architecture
  · Deployed information architecture changes to allow Members to easily locate and complete tasks.
  · New profile page allows users to manage additional profile data and control where the data is displayed.
- Improve voting eligibility checks
  · Created past event visibility for APNIC Login users to check SIG voting eligibility and improved profile management functionality.
- Implement a new MyAPNIC dashboard
  · New interface developed with additional widgets and tools.
- Improve MyAPNIC audit and activity logs for corporate contacts
  · Improvements complete.

1B. **Membership Products** – continued

- ● Automatically link eligible contacts to MyAPNIC
  - · Updates completed.

Additional goals completed
- ● Upgrade APNIC Login
  - · The migration of more than 60,000 APNIC Login SSO users from Keycloak to Okta was completed. Updated the Okta configuration to improve security workflows and reporting.
- ● Improve Help Centre articles
  - · Usability of Help Centre articles was improved by adding visual indicators to distinguish between article types.
- ● Improve EC election proxy appointment feature
  - · Reduced EC election proxy voting time from 90 seconds to 20 seconds (78% improvement).
- ● Improve MyAPNIC process to change an organization's name
  - · Streamlined the Member organization name change process name by automating several steps.

Goals in progress
- ● Improve MyAPNIC contact management
  - · Improving the way Members manage account contacts and updating data model for authenticating users. Deploying mandatory 2FA.

Goals deferred
- ● None.

1B. Membership Products – continued

SUCCESS INDICATORS – 1B

Targets	Results	Status
Maintain MyAPNIC availability of at least 99.99%	99.99%	🟢
Achieve Membership Products satisfaction of at least 80%	81%	🟢
Achieve all 2022 goals, according to the Membership Products Roadmap	13 completed 1 in progress 0 deferred	🟢

1C. Membership Reporting

OPERATIONS

1C.1. Planning and reporting

The 2022 Activity Plan and Budget and 2021 Annual Report were presented at the 2022 Annual General Meeting in March. The 2023 Activity Plan and Budget was approved by the EC in December.

All EC minutes were published in line with agreed deadlines.

A public webpage tracking progress against 2022 activities was published and updated throughout the year.

RESOURCING

	Budget	Actual
PY	0.87	1.34
Expenses	675,451	768,843
CAPEX	-	-

1C. Membership Reporting – continued

SUCCESS INDICATORS – 1C

Targets	Results	Status
Publish required reports on the day of the APNIC Member Meetings	Achieved	🟢
Publish EC Minutes within two months of each EC meeting	Achieved	🟢

2. REGISTRY

OBJECTIVES

Develop and deliver world class registry products and services required by the community.
Ensure responsible stewardship of Internet number resources and deliver accurate registry services.

WORKSTREAMS

2A. Registration Services
2B. Registry Products
2C. Policy Development

REGISTRY - SUMMARY

	Budget	Actual
PY	15.16	13.45
Expenses	3,965,675	3,729,692
CAPEX	230,000	34,590

2A. Registration Services

OPERATIONS

2A.1. IPv4, IPv6 and ASN delegation and registration services

APNIC processed 1,323 IPv6 delegations, 2,618 IPv4 delegations, 787 ASN assignments, 619 IPv4 market transfers (475 within the Asia Pacific region and 144 between APNIC and other RIR regions), and 218 Merger and Acquisition IPv4 transfers. These are illustrated on the following pages.

The proportion of APNIC Members that hold IPv6 resources is 69.47%.

At the end of 2022, APNIC had allocated 99.5% of its total IPv4 number resource pool, 9.7% of its IPv6 pool and 99.3% of its ASN pool. No allocations were received from IANA.

The status of APNIC's Internet number resource pools at the end of 2022 is below.

	Total at 1 Jan 2022	From IANA	Transfers in	Transfers out	Total at 31 Dec 2022	Total delegated	Total reserved	Total available
IPv4 (/24s)	3,483,932	0	2,211	3,911	3,482,232	3,465,983	5,911	10,338
IPv6 (/32s)	1,067,008	0	0	0	1,067,008	103,088	109,815	854,105
ASNs	29,336	0	3	2	29,337	27,391	0	1,946

RESOURCING
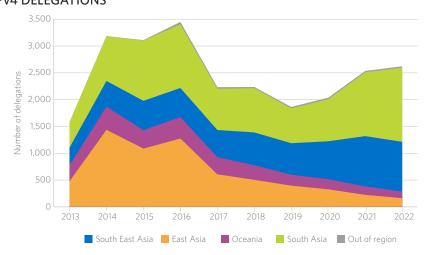
	Budget	Actual
PY	5.11	5.38
Expenses	772,183	794,949
CAPEX	-	-
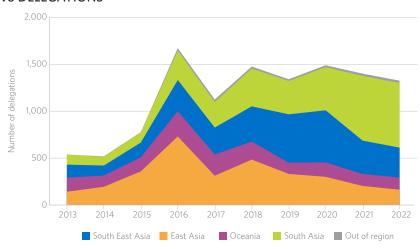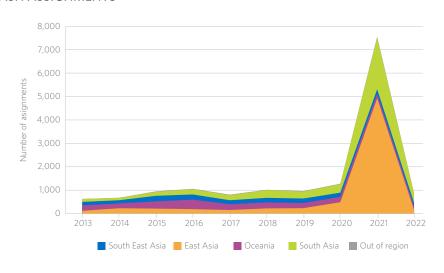
2A. Registration Services – continued

IPv4 DELEGATIONS

Legend: South East Asia · East Asia · Oceania · South Asia · Out of region

IPv6 DELEGATIONS

Legend: South East Asia · East Asia · Oceania · South Asia · Out of region

ASN ASSIGNMENTS

Legend: South East Asia · East Asia · Oceania · South Asia · Out of region

IPv4 MARKET TRANSFERS

Legend: APNIC · Inter-RIR
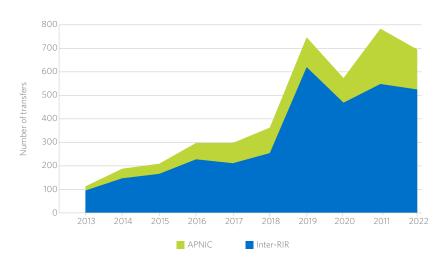
Note: Large requests from networks in China and India account for the significant rise in ASN assignments in 2021.
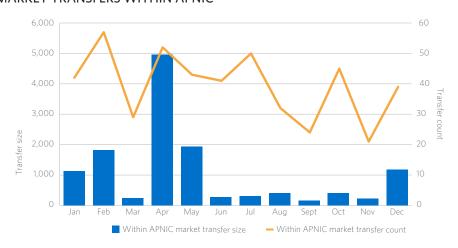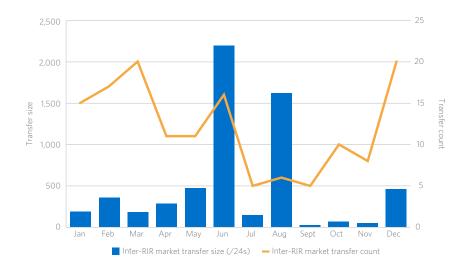
2A. Registration Services – continued

M&A AND HISTORICAL TRANSFERS

Legend: M&A transfer size (/24s) — M&A transfer count

MARKET TRANSFERS WITHIN APNIC

Legend: Within APNIC market transfer size — Within APNIC market transfer count

INTER-RIR IPv4 TRANSFERS

Legend: Inter-RIR market transfer size (/24s) — Inter-RIR market transfer count
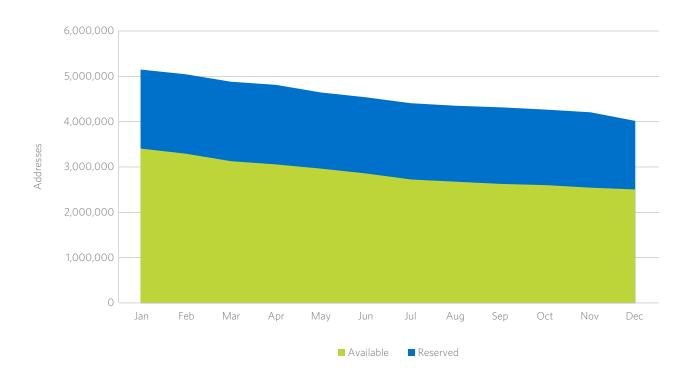
- The number of M&A and historical transfers increased in December due to the historical resources transition project and a large Member merging its accounts.
- There was a large transfer made in April in China.
- There were two large inter-RIR transfers from the RIPE NCC and to ARIN.

2A. Registration Services – continued

AVAILABLE IPv4 ADDRESS SPACE

There were 2,646,528 IPv4 addresses remaining in APNIC's available pool for distribution at the end of 2022.

2A. Registration Services – continued

2A.2. Maintain correct and current registry data

Members with invalid Incident Response Team (IRT) objects were identified and assisted with completing their validation. 80% of Members validated their IRT object (7,946 of 9,939 accounts).

APNIC has used two of the three dimensions of 'accuracy' defined by the NRO (and based on ICANN's ITHI initiative) for Internet number resources data: 'Comprehensive' and 'Correct'. The following are the measurements for resources managed by APNIC (excluding NIRs).

Type of Record	Number of records	Score	% of total records
Comprehensive			
Have a parent block with org object and IRT	39,227	100	89.8%
Have no org object and no IRT	3,575	0	8.1%
Have IRT but no org object	859	50	1.9%
Have org object but no IRT	2	50	0.0004%
Correct			
Have a parent block with org object and validated IRT	31,823	100	73.5%
Have org object but no validated IRT	7,406	50	16%
Have no org object and no validated IRT	4,039	0	9.5 %
Have validated IRT but no org object	395	50	1%

A review of the current measurement methodology began at the end of 2022 to consider future improvements.

2A. Registration Services – continued

SUCCESS INDICATORS – 2A

Targets	Results	Status
Maintain Registration Services SLA of two business day response to enquiries	99.99%	🟢
Increase percentage of Members holding IPv6 address space to at least 70% from 68%	69.47%	🟡
Comply with ITHI reporting requirements	2 out of 3 implemented	🔴
Increase validation of registration records to at least 85% from 76%	80%	🔴

2B. Registry Products

OPERATIONS

2B.1. Internet number registry management

An API to assist NIR resource administration and registry accuracy was developed and deployed to production in June.

The APNIC Registry Management System (ARMS) maintained availability of 99.99%.

2B.2. Registry product management

The Registration Data Access Protocol (RDAP) service was updated to comply with the RIR RDAP profile to improve consistency.

Improvements were also made in the RPKI production system, with the validity period for manifests and CRLs (Certificate Revocation Lists) in the APNIC repository increased from two to seven days to provide more time for rectification in case of an error.

RESOURCING

	Budget	Actual
PY	9.30	7.35
Expenses	2,612,611	2,344,852
CAPEX	230,000	34,590

2B. **Registry Products** – continued

INVESTMENTS

2B.3. Registry product development ➡️|

Planned goals completed
- Improve ROA deletion and recreation process for transfers
  - ROA transition during transfer is now supported.

Additional goals completed
- New transfer log for prop-142 implementation
  - Published a new transfer log, including data about transfer types that was not available in existing reports.
- MyAPNIC Resource Manager Restyling
  - Resource management components were fully integrated into the new MyAPNIC portal.

Goals in progress
- Update authorization mechanisms for whois
  - Final testing of whois and MyAPNIC work nearing conclusion. Expected completion Q1 2023.
- Improve ASN delegation identity in whois and MyAPNIC
  - Core service and customer management functionality completed, with ASN management work in progress. Expected completion Q1 2023.
- Pre-validate all RPKI changes to avoid errors
  - Route management pre-validation tested successfully and final UX review changes underway. Expected completion Q1 2023.

Goals deferred
- None.

roadmap.apnic.net

2B. **Registry Products** – continued

2B.4. Registry re-architecture ➝|

A prototype of an APNIC Registry API was developed to support the retrieval of delegation information, as well as the management of whois records, reverse DNS records, ROAs, and routes.

The protoype API was deployed for public testing, with production development scheduled to start in early 2023.

The reimplementation of the internal registry in Java was deferred to 2023 due to re-prioritization of resources.

2B.5. Readiness for five-9s availability for highly critical services ➝|

Investigation began into the requirements to improve availability of highly critical APNIC services to 99.999%. RPKI, whois, RDAP, and reverse DNS were identified as highly critical services.

Working with an external consultant, a gap analysis for the RPKI service was completed, including considerations for infrastructure upgrades, software architecture, and process improvements in software development and IT operations.

2B. Registry Products – continued

SUCCESS INDICATORS – 2B

Targets	Results	Status
Maintain APNIC Registry Management System (ARMS) availability of at least 99.99%	99.99%	🟢
Maintain whois, RDAP, RPKI, RDNS and IRR availability of at least 99.99%	99.99%	🟢
Update APNIC RDAP to comply with the RIR RDAP profile	Completed	🟢
Migrate RDNS API services to CentOS 7	Scheduled for Q1 2023	🔴
Achieve all 2022 goals, according to the Registry Products Roadmap	3 completed 3 in progress 0 deferred	🔴
Progress development of a Registry API with a completion target of 2023	Development milestones achieved	🟢
Progress reimplementation of the internal registry in Java with a completion target of 2023	Deferred to 2023	🔴
Achieve readiness to implement 5x9s by the end of 2022	Completed	🟢

2C. Policy Development

OPERATIONS

2C.1. Policy development

The APNIC Policy SIG considered the following proposals in 2022.

www.apnic.net/policy

Proposal	Result
prop-141: Change maximum delegation size of IPv4 from 512 (/23) to 768 (/23+/24) addresses	Draft presented for discussion only and not considered for consensus.
prop-142: Unify Transfers Policies Text	Reached consensus and endorsed by the EC for adoption. Implemented.
prop-143: ASN to Customer	Reached consensus and endorsed by the EC for adoption. Implemented.
prop-144: Experimental Proposal Allocation	Reached consensus and endorsed by the EC for adoption. Implemented.
prop-145: Single Source for Definitions	Reached consensus and endorsed by the EC for adoption.
prop-146: Aligning the Contrast	Reached consensus and endorsed by the EC for adoption.
prop-147: Historical Resources Management	Did not reach consensus and returned to the mailing list.
prop-148: Leasing of Resources is not Acceptable	Did not reach consensus and returned to the mailing list.

RESOURCING

	Budget	Actual
PY	0.75	0.71
Expenses	580,881	589,891
CAPEX	-	-

2C. **Policy Development** – continued

2C.2. Policy implementation

Prop-142, -143, and -144 were implemented. Prop-142 required extensive internal updates to properly log each of the transfer types, along with a detailed review/adjustment of the new log to ensure consistency with the previous log.

2C.3. Policy analysis

Impact assessments for the nine policy proposals discussed at APNIC 53 and 54 were shared with the Policy SIG mailing list.

2C. **Policy Development** – continued

SUCCESS INDICATORS – 2C

Targets	Results	Status
Achieve SIG Chair Support satisfaction of at least 6/7	6.8/7	🟢
Achieve PDP satisfaction of at least 5.75/7 in the APNIC Survey	6.16	🟢
Participate in all NIR OPMs	2 out of 2	🟢
Met 100% of implementation timelines	100% met	🟢
Publish a policy proposals analysis before each Open Policy Meeting (OPM)	2 out of 2 published	🟢

3. DEVELOPMENT

OBJECTIVES

Invest in sustainable development of the regional Internet community, industry and infrastructure. Build capacity for best-practice Internet operations across the Internet technical community.

WORKSTREAMS

3A. APNIC Conferences
3B. Foundation Support
3C. Community Engagement
3D. Community Participation
3E. APNIC Academy
3F. Infrastructure Support

DEVELOPMENT - SUMMARY

	Budget	Actual
PY	34.60	27.21
Expenses	11,210,815	8,714,029
CAPEX	128,000	54,413

3A. APNIC Conferences

OPERATIONS

3A.1. APNIC conferences

APRICOT 2022 (incorporating APNIC 53) was held online from 21 February to 3 March 2022. This was the third 100% online conference that APNIC managed due to the COVID-19 pandemic.

The event welcomed 886 remote attendees (via Zoom) in total, including 519 attendees that attended the tutorial week. There were an additional 3,854 views on YouTube.

An election for three available APNIC EC positions was held at APNIC 53 with Sumon Ahmed Sabir (4,084 votes), Kams Sze Yeung (3,238 votes), and Achie Atienza (3,057 votes) elected for two-year terms.

APNIC 54 was held in a hybrid format in Singapore and online from 8 to 15 September 2022, and was co-located with APrIGF 2022 and APSIG 2022, with SGNOG 9 held nearby. There were 1,158 participants in total (563 in-person and 595 via Zoom), as well as 2,565 views on YouTube. A revised program structure was developed to suit both online and face-to-face audiences.

Several community meetings were held at the conferences from partner organizations including, DotAsia, APIX, APStar, and APNG.

Both conferences were well-received, achieving Net Promoter Scores (NPS) of 60 and 65 respectively

conference.apnic.net

RESOURCING

	Budget	Actual
PY	4.15	4.70
Expenses	1,288,628	1,585,093
CAPEX	43,000	51,197

3A. APNIC Conferences – continued

	APRICOT 2022	APNIC 54
Total number of remote participants (Zoom)	886	595
In-person participants	-	563
Economies represented	64	69
YouTube views	3,854	2,565
YouTube hours viewed	870.49	537.34

3A. APNIC Conferences – continued

SUCCESS INDICATORS – 3A

Targets	Results	Status
Achieve total attendance of 1,200 (face-to-face and online) across two conferences	2,044	●
Achieve participant satisfaction of at least 90% at each conference	96% and 95%	●
Achieve Net Promoter Score of at least 50 at each conference	NPS 60 and 65	●

3B. Foundation Support

INVESTMENTS

3B.1. Foundation support �----|

Nine Secretariat staff were seconded to the Foundation, and APNIC staff continued to provide support on an as-needed basis, with all direct costs recovered.

APNIC continued to provide hosting and technical support for administrative, project and financial platforms used by the Foundation.

apnic.foundation

RESOURCING

	Budget	Actual
PY	1.31	1.40
Expenses	264,777	0
CAPEX	-	-

3C. Community Engagement

OPERATIONS

3C.1. Technical community support

APNIC participated and supported 30 technical community events, including 22 Network Operator Group (NOG) events during 2022, providing sponsorship, speakers, training, and technical support (see the Appendix for the full list of events and economies).

Staff also participated on the program committee for nine events, including APAN 53, INNOG 5, PHNOG, SANOG 38 and IDNOG 7, and helped organize LANOG.

3C.2. Security community support

APNIC supported and participated in 45 security community (and related) events, including providing sponsorship, speakers, training, and technical support (see the Appendix for the full list of events and economies).

APNIC also supported BtCIRT, CERT NZ, CERT Tonga, and KrCERT/CC for various activities.

RESOURCING

	Budget	Actual
PY	4.71	5.75
Expenses	1,692,291	1,843,022
CAPEX	-	-

3C. Community Engagement – continued

3C.3. Internet organization cooperation

APNIC was responsible for Chairing the NRO EC and Coordination Groups (CGs) during 2022, with staff participating in 22 online meetings with the CGs and attending seven RIR meetings.

The NRO EC agreed on a new NRO Strategic Plan which includes three programs: RPKI, Cybersecurity and Government Engagement.

Staff participated in all ICANN meetings, with Paul Wilson speaking at the ICANN 75 opening ceremony, and all IETF meetings, with technical staff co-authoring drafts in the IETF SIDROPS (RPKI) and REGEXT (RDAP) working groups.

Staff also participated in the Internet Technical Advisory Committee (ITAC) to the OECD and the Internet Technical Collaboration Group (ITCG).

3C.4. Internet governance participation

APNIC co-organized four workshops at the IGF 2022 (three on Internet sanctions and Internet fragmentation and one on capacity building). Staff also participated in 19 meetings related to the IGF, including the Multistakeholder Advisory Group (MAG), IGF Policy Network on Internet Fragmentation, the IGF Support Association (IGFSA), and IGFSA General Assembly.

Staff participated in two joint sessions of APrIGF and APSIG 2022, and the APrIGF 2022 opening and closing plenaries (both of which were co-located with APNIC 54 in Singapore). Staff were also elected as co-convenors of the APrIGF program committee and participated in 76 APrIGF preparatory meetings covering overall direction, program, event arrangements, and fellowships.

Nine sub-regional and economy-level IGF events, including three youth IGFs and two Schools of Internet Governance events, were also supported (see the Appendix for the full list of events and economies).

3C. Community Engagement – continued

3C.5. Government engagement

APNIC engages with governments and inter-governmental organizations as a member of the technical community. Activities in 2022 included:
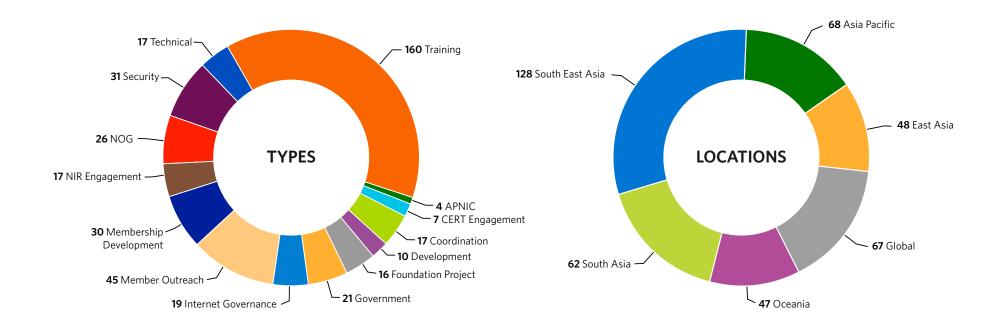
- Participating at the ITU Plenipotentiary Conference 2022 and other ITU standards and development meetings.
- Attending APT meetings, and providing technical training in two APT member states in collaboration with the APT Secretariat.
- Presenting on IPv6 at APEC TEL 64.
- Signing an MoU to collaborate with the Papua New Guinea Department of ICT on capacity building initiatives.
- Organizing training for Law Enforcement Agencies (LEAs) in Oceania and presenting at INTERPOL events.

APNIC also obtained UN accreditation to be an observer in the UN Open Ended Working Group (OEWG) informal consultations.

3C. Community Engagement – continued

3C.6. External relations coordination

TYPES

- **160** Training
- **17** Technical
- **31** Security
- **26** NOG
- **17** NIR Engagement
- **30** Membership Development
- **45** Member Outreach
- **19** Internet Governance
- **21** Government
- **16** Foundation Project
- **10** Development
- **17** Coordination
- **7** CERT Engagement
- **4** APNIC

LOCATIONS

- **68** Asia Pacific
- **128** South East Asia
- **48** East Asia
- **67** Global
- **62** South Asia
- **47** Oceania

Engagements are units of measurement for meaningful interactions by APNIC staff with the community through events. There are currently 15 types of engagements in APNIC, as shown on pages 51 and 52.
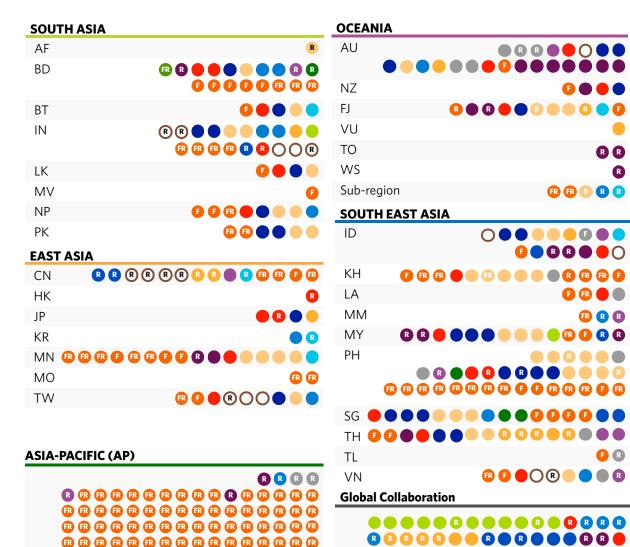
3C. Community Engagement – continued

3C.6. External relations coordination

Legend:
- F Foundation Supported
- R Remote

- ● APNIC
- ● CERT engagement
- ● Coordination
- ● Development
- ● Foundation projects
- ● Government
- ● Internet governance
- ● Member outreach
- ● Membership development
- ● NOG
- ● Security
- ● Technical
- ● Technical assistance
- ● Training
- ● NIR engagement
- ● Product engagement
- ● Other

SOUTH ASIA
AF
BD
BT
IN
LK
MV
NP
PK

EAST ASIA
CN
HK
JP
KR
MN
MO
TW

ASIA-PACIFIC (AP)

OCEANIA
AU
NZ
FJ
VU
TO
WS
Sub-region

SOUTH EAST ASIA
ID
KH
LA
MM
MY
PH
SG
TH
TL
VN

Global Collaboration

3C. **Community Engagement** – continued

SUCCESS INDICATORS – 3C

Targets	Results	Status
Support at least 30 technical community events (opportunity permitting)	30 out of 30	🟢
Support at least one new/revived NOG in two sub-regions (if required)	1 supported	🟢
Support at least 12 security community events (opportunity permitting)	22 events	🟢
Support development of at least four new or existing CERTs/CSIRTs (if needed)	4 out of 4	🟢
Organize quarterly threat sharing community events	4 out of 4	🟢
Ensure APNIC is represented in all NRO EC and 'I-Star' coordination meetings	6 out of 6	🟢
Participate in all RIR Open Policy Meetings	7 out of 8	🔴
Organize at least three workshop proposals at APrIGF 2022	Co-hosted conference	🟢
Support at least five national or sub-regional Internet governance events	11 events	🟢
Participate in at least 12 governmental or intergovernmental engagements	22 engagements	🟢
Support at least three governmental capacity-building events	3 out of 3	🟢
Increase ER touchpoints by at least 5% from 456 in 2021	1,200 touchpoints (163%)	🟢
Achieve at least 250 APNIC engagements in 2022	420 engagements	🟢

3D. Community Participation

OPERATIONS

3D.1. Community-led processes

Special Interest Group (SIG) meetings at APNIC conferences attracted 929 participants. Two intersessional online SIG meetings and policy readout webinars were also held and attracted 55 participants.

The Policy Document Review Working Group (WG) (formed in 2021) completed its work at APNIC 53. Consensus was reached on seven WG policy proposals across APNIC 52 and 53.

Five meetings of the APNIC EC were held with elected representatives of the SIGs, IANA RC, NRO NC, APIX, APNOG and Secretariat staff. Discussions covered APNIC and APRICOT conferences, the 2022 APNIC Survey and community election processes.

At the elections completed at APNIC 54:
- Gaurav Kansal was elected to the NRO NC and as the NIR SIG Co-Chair, both for two-year terms.
- Bikram Shrestha was elected at the Cooperation SIG Co-Chair for a two-year term.
- Anupam Agrawal was elected as the Policy SIG Co-Chair for a two-year term.

Nicole Chen was reappointed by the EC to the second NRO NC seat for a one-year term beginning 1 January 2023.

www.apnic.net/sigs

RESOURCING

	Budget	Actual
PY	1.95	2.44
Expenses	436,317	410,275
CAPEX	-	-

3D. Community Participation – continued
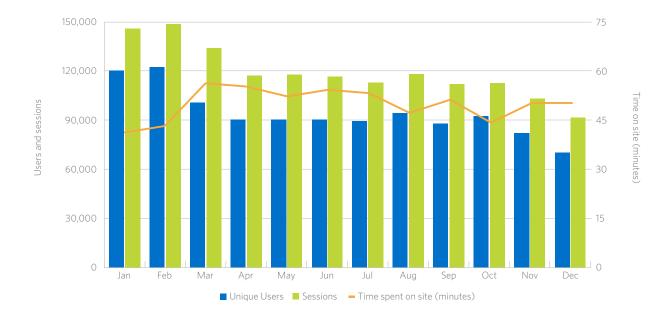
3D.2. Online participation

Following a higher start to the year, visitor numbers to apnic.net remained consistent from April–October before declining. The top five visitor economies were the United States, New Zealand, China, India, and Australia..

APNIC.NET WEBSITE VIEWS

Legend: Unique Users — Sessions — Time spent on site (minutes)

APNIC also launched a Minimum Viable Product (MVP) of Orbit, the online community platform, at APNIC 54 (See 3D.4).

3D. Community Participation – continued

3D.3. Encouraging newcomers and diversity

Thirty fellows (15 female and 15 male; 19 professional and 11 youth) were selected from 371 applicants for the 2022 fellowship program. The program combined the successful online program used in 2021 with attendance and full participation at APNIC 54 in Singapore. An additional 14 fellows from the 2021 program also attended APNIC 54.

Twelve fellowship webinars were delivered with 91.5% overall attendance, and each fellow completed an average of three APNIC Academy courses. There were also 11 mentoring sessions held between 16 fellows and 11 mentors drawn from the community. Twenty-seven fellows fully completed the fellowship program, a graduation rate of 87%.

An Inclusion in Tech joint session with APrIGF was held at APNIC 54, along with a NextGen session for young newcomers to the APNIC community.

Forty-six percent of APRICOT 2022 attendees (406) and 44% of APNIC 54 attendees (509) were newcomers.

3D. Community Participation – continued

INVESTMENTS

3D.4. Online community platform ➡️|

APNIC developed and launched a new online community platform, 'Orbit', that integrates fully with existing mailing lists.

Mailman 3's 'Hyperkitty' platform was selected, with a range of new features developed including a central news feed, user profiles, redesigned landing pages and a new theme applied to all pages. All former Mailman lists were migrated to Orbit. The MVP was launched at APNIC 54 and improvements will continue in 2023.

orbit.apnic.net/news-feed

3D. Community Participation – continued

SUCCESS INDICATORS – 3D

Targets	Results	Status
Achieve at least 850 online SIG participants across two conferences	929 participants	🟢
Achieve at least 120 online participants across at least four intersessional SIG meetings	2 meetings/55 participants	🔴
Achieve SIG satisfaction of at least 5.8/7 in the APNIC Survey	6.00	🟢
Achieve at least 500 registered users of the APNIC community platform	8,766 users	🟢
Attract at least 400 newcomers to APNIC conferences	915 newcomers	🟢
Achieve at least 50% female and 30% youth participation in 2022 Fellowships	50% female, 37% youth	🟢
Achieve a fellowship graduation of at least 80%	87%	🟢
Achieve a fellowship program NPS of at least 80	NPS 100	🟢

3E. APNIC Academy

OPERATIONS

3E.1. Academy product management

The APNIC Academy published a new self-paced OSPF course, including 56 topics and 10 hours of new learning material.

Twelve new virtual labs were added, including:

- DHCPv6-PD
- RPKI Lab with RPKI-Prover
- RPKI Lab with FORT
- Practical Packet Analysis
- IPv6 Security
- MPLS and Segment Routing: MPLS LDP and SR
- NMM SNMP Libre NMS & RRD
- Log Management and Flow Monitoring
- BGP Link State
- Security Monitoring and Analysis
- IPv4/IPv6 Dual-Stack
- SRv6

Content for the new Introduction to Cybersecurity and BGP self-paced courses was also developed.

A new version of eduroam was deployed for eligible APNIC Academy users, including eduroam account management.

RESOURCING

	Budget	Actual
PY	19.58	11.93
Expenses	5,079,961	4,009,932
CAPEX	25,000	3,217

3E. **APNIC Academy** – continued

3E.2. Instructor-led training

With travel resuming in 2022, instructor-led training could be provided both face-to-face and online. Training was conducted at 30 technical community events, including 11 NOGs.

A total of 141 courses were delivered to 3,849 participants, with an additional 18 webinars attracting 1,048 participants. Eight online workshops and two-in-person tutorials were also conducted with NIRs.

Twenty-one RPKI tutorials and ROA sessions led by Retained Community Trainers (RCTs) were completed. An RPKI Deployathon was also held before AusNOG 2022. (see 3E.6).

Updates were made to five courses (network security, RPKI/ ROV, DNS/DNSSEC, NMM and IPv6), and Open Lab sessions on routing, Linux Basics, IPv6 and DNS began in October to provide more lab time to participants.

3E.3. Self-paced training

Trainees completed 2,010 courses (4,414 contact hours) and launched 11,906 labs (12,125 hours completed) on APNIC Academy in 2022. The online platform now has 25,795 accounts after 8,385 new accounts joined.

academy.apnic.net

3E. APNIC Academy – continued

3E.4. Community Trainers network

A new Retained Community Trainer (RCT) program was introduced, and six community members (based in the Philippines, Cambodia, Mongolia, Fiji, Nepal and Sri Lanka) were recruited. There are currently 30 active volunteer CTs from 15 economies.

RCTs conducted monthly economy-focused RPKI and IPv6 awareness sessions and helped facilitate online Open Labs.

academy.apnic.net/en/community-trainers

3E.5. Technical assistance

Technical assistance was provided to 10 Members across nine economies, including:
- Providing guidance on a vulnerability reporting program (VRP) with an Australian Member.
- Assisting a Malaysian Member with RPKI validator configuration.
- Supporting an ISP in Pakistan to clean up IPv6 and IPv4 BGP announcements.
- Assisting the Papua New Guinea government to migrate their network equipment to Cisco.
- Helping Members via the APNIC Academy technical assistance platform in Myanmar, Malaysia, New Zealand, Bangladesh, India, and Hong Kong on RPKI, reverse DNS, routing, BGP, IXP and IPv6 issues.

academy.apnic.net/en/technical-assistance

Following the volcanic eruption in late December 2021, APNIC helped Tonga re-establish communication to its outer islands via satellite, and sourced and configured a donated Cisco ASR router to the Tonga Communications Corporation. Assistance to .FJ was also provided to help solve a DNSSEC issue.

3E. **APNIC Academy** – continued

3E.6. RPKI awareness and deployment support
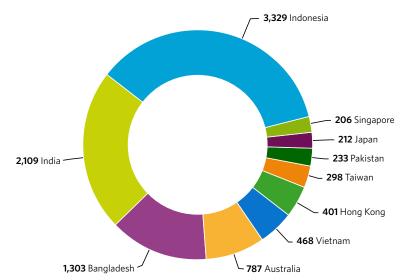
Twenty-six RPKI/ROV tutorials were conducted by RCTs in the Philippines, Cambodia, Mongolia, Fiji, and Nepal. Members in Fiji and the Philippines were proactively contacted and assisted to clean up invalid routes. APNIC also conducted an RPKI Deployathon ahead of AusNOG 2022.

Fiji reached 99% ROA coverage and Cambodia achieved 91% ROA coverage following APNIC assistance provided to operators at local events.

Three RPKI deployment case studies were also published.

www.apnic.net/rpki

TOP 10 ECONOMIES WITH ROAs

- **3,329** Indonesia
- **206** Singapore
- **212** Japan
- **233** Pakistan
- **298** Taiwan
- **401** Hong Kong
- **468** Vietnam
- **787** Australia
- **1,303** Bangladesh
- **2,109** India

3E. APNIC Academy – continued
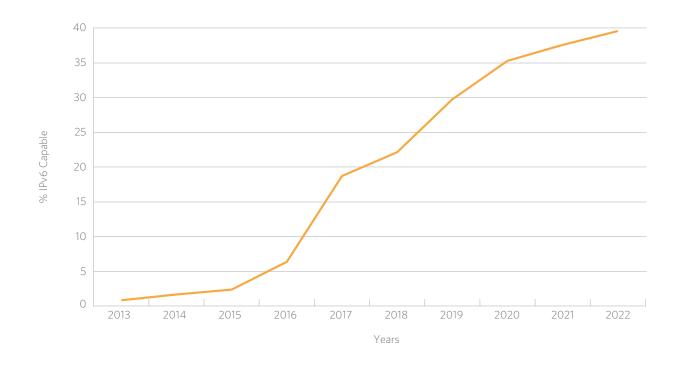
3E.7. IPv6 awareness and deployment support

IPv6 capability for the Asia Pacific region ended the year at 37.65%, as measured by APNIC Labs.

Seventeen IPv6 deployment focused training events were delivered, with two IPv6 deployment success stories and 23 IPv6 blog posts published.

www.apnic.net/ipv6

IPv6 CAPABILITY PERCENTAGE

3E. **APNIC Academy** – continued

INVESTMENTS

3E.8. Academy product development ➡️|

Planned goals completed:
- Integration with Salesforce for improved registration, case management and reporting
  - Extended integration with Salesforce completed.
- Integration with Okta for better account provisioning of eduroam, eduGAIN and social logins
  - Okta integration complete for account provisioning.
- Migration of APNIC's Training Wiki into the APNIC Academy platform
  - Migration completed with new course material functionality implemented.
- Establish central repository of all training materials
  - Central repository of content established for trainers.
- Improve mobile support for APNIC Academy and explore m-learning/mobile app support
  - Mobile experience improved on Academy.

Additional goals completed
- Improve virtual labs performance
  - Singapore datacentre now default location for all APNIC Academy virtual labs.
- Improve Academy site navigation
  - Implemented new 'Omnibar' and contextual navigation.

Goals in progress
- None

Goals deferred
- Recruitment of a Certification Project Officer to initiate the design of a new APNIC Certification Program.

roadmap.apnic.net

3E. **APNIC Academy** – continued

3E.9. Curriculum for non-technical audiences ➝|

Learning objectives and design documentation were completed for the online educational game, IPGO, that aims to help non-technical audiences better understand how the Internet works and encourage active participation in the Internet ecosystem.

Delays in game development have pushed back the minimum viable product launch until 2023.

3E. **APNIC Academy** – continued

SUCCESS INDICATORS – 3E

Targets	Results	Status
Maintain Academy platform availability of at least 99.95%	99.99%	🟢
Achieve a rating of at least 6.00 for APNIC training in the APNIC Survey	6.40	🟢
Conduct at least 100 instructor-led tutorials / workshops	141 tutorials/workshops	🟢
Conduct at least 18 live webinars	18 out of 18	🟢
Achieve average training survey rating of 4/5	4.3 out of 5	🟢
Increase total self-paced online course usage by at least 30% from 3,340 hours in 2021	4,414 hours (32%)	🟢
Increase total virtual lab usage by at least 20% from 6,902 hours in 2021	12,125 hours (76%)	🟢
Increase registered users of the APNIC Academy by at least 25% from 17,018 in 2021	23,801 (40%)	🟢
Recruit at least 12 new retained CTs	6 out of 12	🔴

3E. **APNIC Academy** – continued

SUCCESS INDICATORS – 3E CONTINUED

Targets	Results	Status
Recruit at least 10 new volunteering CTs	6 out of 10	🔴
Respond to all technical assistance requests within seven days	Achieved	🟢
Conduct at least two instructor-led RPKI/ROV tutorials/workshops per sub-region	26 conducted (14 SEA, 6 EA, 2 SA, 4 OC)	🟢
Achieve at least 90% ROA coverage for at least one additional economy per sub-region	2 economies	🟢
Publish at least three RPKI/ROV deployment case studies	3 out of 3	🟢
Conduct at least two instructor-led IPv6 deployment tutorials/workshops per sub-region	25 completed (10 AP, 5 EA, 7 SA, 3 SEA)	🟢
Publish at least two IPv6 deployment case studies	2 out of 2	🟢
Achieve all 2022 goals, according to the Academy Products Roadmap	7 completed 0 in progress 1 deferred	🟢
Release phase 1 of IPGO (an MVP) by June 2022	Delayed until 2023	🔴

3F. Internet Infrastructure Support

OPERATIONS

3F.1. Internet infrastructure deployment

The Maldives IX (MVIX) was launched, with Route Origin Validation (ROV) implemented, following a training workshop and technical assistance.

Work continued with PKIX Lahore on route server deployment and RPKI for their IXP, and discussions began for an IXP in Kiribati and Timor Leste.

Equipment delays impacted root server deployment in 2022, including M-Root servers (see 3F.3).

3F.2. Community Honeynet and Security Threat Sharing Platform

The Community Honeynet project expanded with the addition of five new partners from Bhutan, Laos PDR, and Mongolia, bringing the total to 20.

The platform was upgraded to support an increased number of sensors and data processing, with the number of honeypot sensors increasing to 100.

Quarterly threat sharing meetings were held with partners and the community to discuss the latest observations, and presentations related to the threats observed were made at three events (TWNIC, MNNOG and CNCERT/CC).

APNIC also mentored students from the Royal Bhutan University, who used the honeynet data for their projects.

RESOURCING

	Budget	Actual
PY	2.90	1.00
Expenses	2,448,842	865,707
CAPEX	60,000	-

3F. **Internet Infrastructure Support** - continued

INVESTMENTS

3F.3. M-root deployment support ➡️|

M-root server deployments in Guam, Hanoi, and Singapore were completed.

Equipment delivery delays continued to impact agreed deployments of servers in 11 locations (Kaohsiung, Manila, Dhaka, Bangkok, Jakarta, Ulaanbaatar, Kathmandu, Mumbai, Lahore, Kolkata, and Singapore).

3F. Internet Infrastructure Support - continued

SUCCESS INDICATORS – 3F

Targets	Results	Status
Support deployment of at least two new or upgraded IXPs	1 completed 2 in progress	🔴
Support at least four IXPs to deploy ROV	1 deployed 1 in progress	🔴
Deploy at least four root servers per sub-region, including M-root servers	2 out of 4 SEA 0 out of 4 SA 0 out of 4 EA 1 out of 4 OC	🔴
Deploy or upgrade at least one RIPE Atlas anchor per sub-region	1 out of 4	🔴
Increase Community Honeynet partners from 10 to 15	15 partners	🟢
Increase the number of honeypot sensors by at least 60% from 60 in 2021	100 sensors (67%)	🟢
Increase the Community Honeynet and Security Threat Sharing Platform partners by at least 30% from 15 in 2021	20 partners (33%)	🟢
Complete 10 M-root server deployments commenced in 2021	3 out of 10	🔴
Identify and prepare at least 15 additional M-root server sites	1 out of 15 8 in negotiation	🔴

4. INFORMATION

OBJECTIVE

Support Internet development with needed network information services, and research outcomes which are of demonstrated value to the community.

WORKSTREAMS

4A. Information Products
4B. Research and Analysis

INFORMATION - SUMMARY

	Budget	Actual
PY	9.74	8.67
Expenses	2,535,680	2,327,329
CAPEX	123,000	93,812

4A. Information Products

OPERATIONS
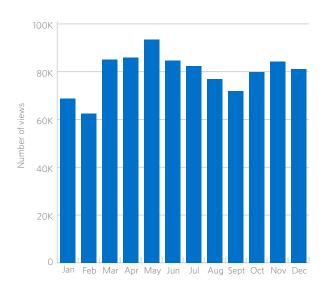
4A.1. APNIC Blog and podcast
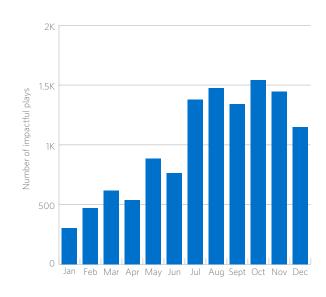
The APNIC Blog averaged 79,707 unique views per month in 2022, a 16% increase on 2021's monthly average of 68,721. There were 211 Guest Posts, representing 60% of total opinion posts (an increase on 2021's 56%).

Twenty-five episodes of the 'PING' podcast were published, attracting 11,907 'impactful plays' (episode listens of 75% or longer), an average of 476 plays per episode.

blog.apnic.net

BLOG VIEWS

PODCAST IMPACTFUL PLAYS

RESOURCING

	Budget	Actual
PY	8.87	7.65
Expenses	1,459,082	1,402,246
CAPEX	-	-

4A. Information Products – continued
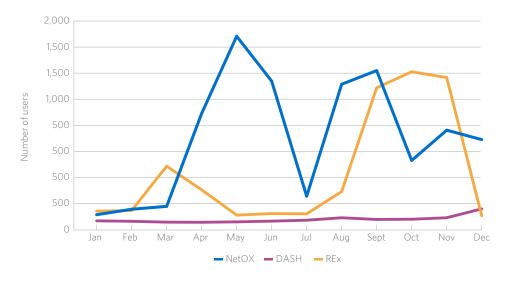
4A.2. Information product management

A significant increase in new users was achieved using paid search promotion for REx and NetOX, translating into an increased number of returning users.

Availability of DASH, NetOX and REx was maintained at 99.99%.

rex.apnic.net

dash.apnic.net

netox.apnic.net

MONTHLY NUMBER OF USERS

4A. Information Products – continued

INVESTMENTS

4A.3 Information product development ➡|

Planned goals completed
- Complete a joint APIX survey around a benchmarking service
  - Survey completed.
- Add routing and suspicious traffic alerts to DASH
  - Deployed alerts through email notifications, SMS and Slack.
- Develop a common API and backend system to provide notifications as a service for APNIC products
  - Notifications system deployed for email, SMS and Slack.
- Improve NetOX comparison tools
  - Deployed feature to allow multiple Internet number resources to be compared using different widgets.
- Provide non-ASN holders access to DASH
  - Routing information features in DASH now available.

Additional goals completed
- Add routing information pages to DASH
  - Deployed routing status information to highlights inconsistencies in BGP, RPKI and IRR data.
- REx user interface improvements
  - Deployed several UX/UI improvements based on feedback.Add RPKI and DNSSEC measurement data to REx

roadmap.apnic.net

4A. Information Products – continued

4A.2 Information product development ➔|

Goals in progress
- Expand REx to cover global RIR delegation data and global IPv6 data
  · UI design and implementation finalized, with the backend implementation to be completed in Q1 2023.

Goals deferred
- Add RPKI and DNSSEC measurement data to REx

4A. **Information Products** – continued

SUCCESS INDICATORS – 4A

Targets	Results	Status
Achieve average of at least 70,000 Blog views per month	79,707	🟢
Maintain Blog Guest Post ratio between 45-65%	60%	🟢
Achieve at least 4,000 podcast listens	11,907	🟢
Achieve a Blog satisfaction rating of at least 5.95/7 in the APNIC Survey	6.16	🟢
Maintain Information Product availability of at least 99.95%	99.99%	🟢
Reach the following average users per month: **REx: 1,000 users per month** **DASH: 500 users per month** **NetOX: 1,000 users per month**	REx: 2,210 DASH: 394 NetOX: 3,559	🟠
Achieve a NPS of 60+ for all products	REx: 32 DASH: 71 NetOX: 57	🔴
Maintain a usability score of at least 4.5/5 for all products	REx: 4.3 DASH: 4.4 NetOX: 4.6	🟠
Achieve all 2022 goals, according to the Information Products Roadmap	7 completed 1 in progress 1 deferred	🟢

4B. Research and Analysis

OPERATIONS

4B.1. Conducting research and measurements

APNIC Labs completed new measurements on the use of IPv6 as a transport protocol for the DNS and IPv6 Extension Header handling (including fragmentation). The analysis of IPv4 and IPv6 advertised, unadvertised and reserved address pools over time continued.

DNS research included analysis of the handling of large DNS responses, adoption of DOH, and DNS query patterns. Measurement of QUIC (and HTTP/3) use continued, following the release of beta software that adds QUIC support to NGINX servers.

The annual reporting on the state of BGP was published, with work continuing on automated BGP anomaly detection.

4B.2 Research cooperation

APNIC entered into a cooperative research program with ISOC in support of MANRS, providing a feed of routing data. Measurements on aspects of the DNS and DNSSEC were also provided to ICANN as part of a cooperative research agreement.

Research with Cloudflare continued on the characteristics of DNS query traffic presented to the Cloudflare 1.1.1.1 open recursive resolver.

4B.3 Sharing research outcomes

A total of 47 research blog articles and 12 podcasts were published, with 41 presentations on research findings shared at technical forums globally.

RESOURCING

	Budget	Actual
PY	0.87	1.02
Expenses	1,076,598	925,083
CAPEX	123,000	93,812
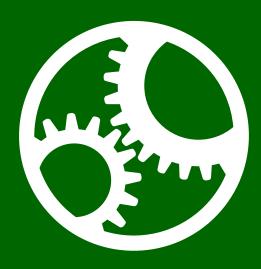
4B. Research and Analysis – continued

SUCCESS INDICATORS – 4B

Targets	Results	Status
Undertake at least two significant cooperative research activities	3 activities	●
Publish at least 12 articles or reports on resource outcomes	47 articles	●
Present at least 12 research presentations, including at least two at APNIC conferences	41 presentations	●

5. CAPABILITY

OBJECTIVES

Sustain a healthy and resilient organization.
Develop a strong service culture driven by people committed to APNIC's vision and values.
Provide stable and secure technical infrastructure to support APNIC operations and services.

WORKSTREAMS

5A. Internal Technical Infrastructure
5B. Finance and Business Services
5C. Employee Experience
5D. Governance

CAPABILITY - SUMMARY

	Budget	Actual
PY	37.78	36.14
Expenses	10,543,000	10,574,953
CAPEX	988,300	645,007

5A. Internal Technical Infrastructure

OPERATIONS

5A.1. Architecture and technical coordination

Technology platforms were reviewed with particular attention to the end of life of CentOS 7 and JDK versions. CentOS 7 will be replaced with RedHat Enterprise Linux in 2023.

An initial metrics scanner to improve vulnerability scanning is now operational.

Work to centralize internal authentication and authorization was completed in 2022 for deployment in early 2023.

5A.2. Network and infrastructure operations

Availability of critical APNIC services was maintained at 99.99% during the year (see breakdown below).

Progress continued on the deployment of a shared Point of Presence (PoP) in the Singapore SG1 datacentre for both critical APNIC services and an M-root global anycast node

Core system uptime

FTP	100%
MyAPNIC	99.99%
RDNS	100%
RDNS DNSSEC Validity	100%
Whois	99.99%
RPKI	99.99%
RDAP	99.99%

RESOURCING

	Budget	Actual
PY	16.81	15.16
Expenses	4,066,639	3,356,536
CAPEX	560,800	559,034

5A. Internal Technical Infrastructure – continued

5A.3. System and platform operations

RPKI improvements included deploying RPKI RRDP in APNIC's Cloudflare and Google Cloud CDN instances, and the deployment of a redundant Hardware Security Module (HSM) for RPKI to allow data centre failover.

New RDNS anycast nodes were deployed in Mumbai, Bangalore, Tokyo, Melbourne, San Jose, New Jersey, and Miami to improve performance.

As part of the Orbit development process, all community mailing lists were migrated to Mailman 3, with Okta SSO support. The annual DNSSEC key rollover was also completed.

Average data centre bandwidth usage (Mbps)	
AU edge inbound	99.3
AU edge outbound	280
JP edge inbound	21.9
JP edge outbound	97

Average query rates (per second)	
Whois	467.1
RDAP	66.38
RPKI (RSYNC and RRDP)	39.52
FTP	0.28
MyAPNIC	0.53

5A. Internal Technical Infrastructure – continued

5A.4. Internal security operations

APNIC successfully achieved ISO 27001 Information Security Management System (ISMS) certification.

HackerOne was selected to support APNIC's Vulnerability Reporting Program (VRP) and now provides continuous penetration testing.

The DNS Certification Authority Authorization (CAA) for APNIC domains was also published to prevent unauthorized certificate creation from unlisted CAs.

5A.5 Enterprise applications and IT support

Sage People HR management was deployed to replace older systems. Other system improvements included replacing the authentication process for the RT application with Okta, and migration of internal Confluence servers to Atlassian Cloud.

5A. Internal Technical Infrastructure – continued

5A.6. Security infrastructure upgrades

A range email of security improvements were completed, including:
- SMTP TLS reporting (RFC 8460).
- Deployment of the MTA-STS email standard to prevent downgrade attacks on inbound email delivery (RFC 8461).
- Sender Policy Framework (SPF) to publish lists of permitted senders for all APNIC email domains (RFC 7208).
- Use of MXToolbox and Mailhardener to monitor SPF, DMARC, and TLS.
- Outbound emails now use the Domain Keys Identified Mail (DKIM) standard digital signature in the header.

The APNIC DANE TLSA record is now using a public certificate, and a project team began work on privileged access management and improved user authentication as part of a zero-trust network and server access intiative.

Two-factor authentication, with local-only user access, was also deployed for the critical services backup system.

5A. Internal Technical Infrastructure – continued

SUCCESS INDICATORS – 5A

Targets	Results	Status
Review technology recommendations once per quarter	Completed	🟢
Report quarterly on architectural decisions and directions	Completed	🟢
Complete quarterly data centre failover and backup recovery tests	Completed	🟢
Respond to all critical incidents within 20 minutes	No critical incidents	🟢
Maintain availability of 99.99% for critical APNIC services and 99.95% for less-critical services	Both 99.99%	🟢
Deploy additional Hardware Security Module (HSM) for High Availability (HA) group in multiple data centres	Completed	🟢
Completed CentOS migration plan	Completed	🟢

5A. Internal Technical Infrastructure – continued

SUCCESS INDICATORS – 5A - CONTINUED

Targets	Results	Status
Deploy redundant load balancers	Completed	🟢
Achieve ISO27001 certification	Completed	🟢
Mitigate all critical vulnerability reports within seven days and resolve within 30 days	No critical vulnerability reports	🟢
Meet SLA of two business-day response for internal IT support	SLA met	🟢
Complete automation of patch management	Completed	🟢
Complete email business rule deployment using standard best practice	2023 completion	🔴
Implement improved user authentication and access management system	2023 completion	🔴

5B. Finance and Business Services

OPERATIONS

5B.1. Internal knowledge management

Migration of document management to a new SharePoint instance was completed, including internal administrative and HR documentation. The old internal site was decommissioned.

5B.2. Financial services

The annual audit of APNIC's 2021 financial accounts was completed by Deloitte and presented to the EC at APNIC 53.

APNIC's request to renew its mutuality status for tax purposes was approved by the Australian Tax Office (ATO) by way of a Private Ruling. The Private Ruling extends APNIC's mutuality status to 30 June 2027.

A risk tolerance review of the investment portfolio was undertaken and recommendations were presented by Credit Suisse to the EC.

A Member payments and billing survey was completed in September, with 183 responses from 25 economies, to identify improvements. Ninety percent of respondents rated their billing and payments experience with APNIC as 4 or 5 (out of 5).

RESOURCING

	Budget	Actual
PY	12.09	12.59
Expenses	2,935,176	3,585,463
CAPEX	40,000	61,315

5B. **Finance and Business Services** – continued

5B.3. Business services

Improvements were made to the travel booking and risk management procedures, with travel requests migrated to Salesforce to align with audit and expense policies.

A new set of 'Eco-APNIC' standards were introduced for APNIC promotional items.

5B.4. Business intelligence and data analytics

Work on automating report content continued, with automated scripts developed to prepare data from multiple systems and generate standardized charts and visualizations.

5B. Finance and Business Services – continued

INVESTMENTS

5B.5 Data management and governance ➝|

A data management and governance system based on Certus/IRIS was selected and implemented, with staff trained by the vendor on modelling and data warehouse best practices. Data ingestion pipelines are being developed and tested on the new platform.

A graph database is in development, built on the Neo4J Aura cloud platform, integrating data from routing tables, whois/RDAP, RPKI, reverse DNS, and other sources in future. Practical applications have been found in forensic analysis of Internet resource usage. Live BGP data ingestion into Neo4J is being deployed.

APNIC Membership and Registry data is ingested into the data vault daily, and reports and chart data are sourced from it.

5B. **Finance and Business Services** – continued

SUCCESS INDICATORS – 5B

Targets	Results	Status
Complete migration of knowledge management systems during Q1 2022	Completed	🟢
Achieve a successful audit of APNIC's annual financial accounts	Completed	🟢
Maintain all Office facilities to established annual schedule	Completed	🟢
Audit travel requests and expense transactions for policy alignment	Completed	🟢
100% automation of monthly Secretariat reporting data/charts from the BI system	60% complete	🔴
Data model and governance are documented and implemented	50% complete	🔴
Data ingestion system established and working effectively	30% complete	🔴

5C. Employee Experience

OPERATIONS

5C.1. Organizational development

Biannual 'People Pulse' surveys were conducted in April and November, recording staff engagement scores of 83% and 82% respectively. This exceeded the global benchmark of 76%.

A career pathway framework was drafted to support a comprehensive succession plan, and executive coaching commenced in Q4.

5C.2. Work environment management

Flooding in Brisbane in March caused subsidence damage to the APNIC office carpark. Remedial work will be completed in 2023.

All government guidelines for COVID-infected staff were observed and staff were provided with necessary support.

RESOURCING

	Budget	Actual
PY	7.19	6.14
Expenses	2,760,946	2,677,504
CAPEX	387,500	24,658

5C. Employee Experience – continued

5C.3. Talent attraction and retention

APNIC filled 30 permanent roles (either budgeted in the workforce plan or replacements), four contractor roles and engaged eight Community Trainers (3 VCT and 5 RCTs).

Talented training, software development and UX candidates were in high demand, contributing to staff turnover of 9.7% and some recruitment delays.

5C.4. People operations management

The deployment of Sage People allowed for the decommissioning of two older HR systems while improving functionality.

A refreshed careers page was developed along with the launch of a new recruitment video and employee value proposition.

The parental leave policy was also reviewed and improved to meet best current practice.

5C. Employee Experience – continued

INVESTMENTS

5C.5. APNIC workspace improvement ➞|

The Cordelia St office refurbishment was completed within budget. The furnishings selected are able to be used in the future APNIC premises.

A project team is working on the requirements for the new premises, and workshops were conducted during the year with the appointed architects regarding the design.

5C. **Employee Experience** – continued

SUCCESS INDICATORS – 5C

Targets	Results	Status
Complete Agile adoption by end of Q2 2022	Completed	🟢
Staff satisfaction ratings meet or exceed external benchmarks in 2022	Completed	🟢
An Internal Communications specialist is appointed by end of Q2 2022	Completed	🟢
Zero WHS incidents due to APNIC-controlled environmental factors	No incidents	🟢
All travellers meet travel safety requirements as per the Travel Health Policy	100% compliance	🟢
Maintain staff turnover rate within benchmark of 5-15%	9.7%	🟢
Fill all open roles within 90 days from advertisement	71-day average	🟢
Every advertised vacancy has a minimum of four simultaneous candidate sources	100% compliance	🟢
Complete deployment of all selected modules of the Sage People system	Completed	🟢
Demonstrate reduced cost of HR administration platforms	Completed	🟢
Payroll review completed by end of Q3 2022	Deferred to 2023	🔴
Complete all budgeted facility upgrades by end of Q3 2022	Completed	🟢

5D. Governance

OPERATIONS

5D.1. Executive Council (EC) support

Sumon Ahmed Sabir, Kam Sze Yeung, and Achie Atienza were elected to the APNIC EC for two-year terms.

The annual EC satisfaction survey achieved a high level of satisfaction with support provided by the Secretariat to EC members.

5D.2 Corporate governance and legal

The Strategic Risk Register was updated and reviewed quarterly by the EC.

Recertification of ISO9001 was achieved. Additional work was required to document processes within product development, Academy, and training delivery, after the scope of recertification was expanded.

The whistleblower policy was implemented, and a dedicated external provider engaged to assist with deployment and management of reports.

All professional conduct-related policies were reviewed, and organizational expectations reinforced, to avoid the possibility of incidents.

A comprehensive workplace health and safety risk register was developed.

5D.3 Corporate social responsibility

All promotional items are now sourced from sustainable and ecologically-friendly suppliers, and presentations from environmentally friendly superannuation providers were delivered to staff.

RESOURCING

	Budget	Actual
PY	1.68	2.25
Expenses	780,240	955,450
CAPEX	-	-

5D. Governance – continued

SUCCESS INDICATORS – 5D

Targets	Results	Status
Achieve a satisfaction rating of at least 6/7 from a survey of EC members	6.8 out of 7	🟢
Update Strategic Risk Register quarterly	4 out of 4	🟢
Achieve full ISO 9001 quality management system recertification	Completed	🟢
Undertake quarterly BCP scenario testing	4 out of 4	🟢
Corporate social responsibility program developed and approved	In progress	🔴

2022 FINANCIAL REPORT BY ACTIVITY

Activity	PY Budget 2022	PY Actual 2022	PY Variance	CAPEX Budget (AUD) 2022	CAPEX Actual (AUD) 2022	CAPEX Variance (AUD)	OPEX Budget (AUD) 2022	OPEX Actual (AUD) 2022	OPEX Variance (AUD)
Member Services	14.67	14.13	4%	2,989,124	2,799,996	-6%	-	-	0%
Membership Products	9.40	8.82	-6%	1,844,666	1,665,309	-10%	-	-	0%
Membership Reporting	0.87	1.34	54%	675,451	768,843	14%	-	-	0%
Membership - Total	**24.93**	**24.28**	**-3%**	**5,509,241**	**5,234,148**	**-5%**	**-**	**-**	**0%**
Registration Services	5.11	5.38	5%	772,183	794,949	3%	-	-	0%
Registry Products	9.30	7.35	-21%	2,612,611	2,344,851	-10%	230,000	34,590	-85%
Policy Development	0.75	0.71	-5%	580,881	589,891	2%	-	-	0%
Registry - Total	**15.16**	**13.45**	**-11%**	**3,965,675**	**3,729,692**	**-6%**	**230,000**	**34,590**	**-85%**
APNIC Conferences	4.15	4.70	13%	1,288,628	1,585,093	23%	43,000	51,197	19%
Foundation Support	1.31	1.40	7%	264,777	0	-100%	-	-	0%
Community Engagement	4.71	5.75	22%	1,692,291	1,843,022	9%	-	-	0%
Community Participation	1.95	2.44	25%	436,317	410,275	-6%	-	-	0%
APNIC Academy	19.58	11.93	-39%	5,079,961	4,009,931	-21%	25,000	3,217	-87%
Internet Infrastructure Support	2.90	1.00	-66%	2,448,842	865,707	-65%	60,000	-	-100%
Development - Total	**34.60**	**27.21**	**-21%**	**11,210,815**	**8,714,029**	**-22%**	**128,000**	**54,413**	**-57%**
Information Products	8.87	7.65	-14%	1,459,082	1,402,246	-4%	-	-	0%
Research and Analysis	0.87	1.02	18%	1,076,598	925,083	-14%	123,000	93,812	-24%
Information - Total	**9.74**	**8.67**	**-11%**	**2,535,680**	**2,327,329**	**-8%**	**123,000**	**93,812**	**-24%**
Internal Technical Infrastructure	16.81	15.16	-10%	4,066,639	3,356,536	-17%	560,800	559,034	0%
Finance and Business Services	12.09	12.59	4%	2,935,176	3,585,462	22%	40,000	61,315	53%
Employee Experience	7.19	6.14	-15%	2,760,946	2,677,504	-3%	387,500	24,658	-94%
Governance	1.68	2.25	34%	780,240	955,450	22%	-	-	0%
Capability - Total	**37.78**	**36.14**	**-4%**	**10,543,00**	**10,574,953**	**0%**	**988,300**	**645,007**	**-35%**
Total	**122.21**	**109.75**	**-10%**	**33,764,411**	**30,580,151**	**-9%**	**1,469,300**	**827,823**	**-44%**

Note: Some numbers presented in this chart may not add up precisely to the totals provided due to rounding.

STATEMENT OF FINANCIAL POSITION

For a better understanding of APNIC Pty Ltd's financial position and performance, as represented by the results of its operations for the financial year ended 31 December 2022, the statement of financial position, and statement of income, should be read in conjunction with the annual statutory financial report and the audit report contained therein.

Assets

	2022 (AUD)	2021 (AUD)	% change
Current assets			
Cash and cash equivalents	7,302,763	7,065,707	3%
Trade and other receivables	4,736,137	5,340,114	-11%
Other current assets	1,247,343	973,041	28%
Total current assets	**13,286,243**	**13,378,862**	**-1%**
Non-current assets			
Financial assets	33,161,465	36,728,127	-10%
Property, plant and equipment	6,803,390	6,726,988	1%
Total non-current assets	**39,964,855**	**43,455,115**	**-8%**
Total assets	**53,251,098**	**56,833,977**	**-6%**

Liabilities

	2022 (AUD)	2021 (AUD)	% change
Current liabilities			
Trade and other payables	1,780,433	1,535,635	16%
Employee benefit liabilities	3,086,849	2,700,030	14%
Unearned revenue	12,379,552	12,243,100	1%
Total current liabilities	**17,246,834**	**16,478,765**	**5%**
Non-current liabilities			
Deferred tax liabilities	57,214	1,126,296	-95%
Employee benefit liabilities	361,744	383,353	-6%
Total non-current liabilities	**418,958**	**1,509,649**	**-72%**
Total liabilities	**17,665,792**	**17,988,414**	**-2%**
Net assets	**35,585,306**	**38,845,563**	**-8%**

Equity

	2022 (AUD)	2021 (AUD)	% change
Contributed equity	1	1	0%
Retained earnings	35,585,305	38,845,562	-8%
Total equity	**35,585,306**	**38,845,563**	**-8%**

STATEMENT OF PROFIT OR LOSS

	2022 (AUD)	2021 (AUD)	% change
Revenue			
Membership fees	24,717,563	24,252,513	2%
Non-member fees	259,616	257,209	1%
Reactivation fees	18,800	22,400	-16%
Sign-Up fees	258,750	302,750	-15%
Transfer fees	177,643	244,156	-27%
APNIC Foundation receipts	3,762,837	0	0%
Sundry income	301,093	444,336	-32%
Foreign exchange gain/ (loss)	11,668	32,136	-64%
Operating revenue	**29,507,970**	**25,555,500**	**15%**
Investment income	771,547	865,457	-11%
Total revenue	**30,279,517**	**26,420,957**	**15%**
Expenses			
Communication expenses	633,469	634,015	-0%
Computer expenses	1,883,390	1,514,824	24%
APNIC Foundation funded project expense	3,702,680	-	0%
Contribution to ICANN	231,762	197,515	17%
Depreciation expense	652,215	652,409	-0%
Meeting and training expenses	597,066	88,786	572%
Office operating expenses	611,541	367,000	67%
Professional fees	1,971,461	2,212,253	-11%
Salaries and personnel expenses	16,887,009	15,707,940	8%
Sponsorship and publicity expenses	639,979	315,397	103%
Travel expenses	1,370,504	65,455	1,994%
Other operating expenses	1,399,075	1,063,656	32%
Total expenses	**30,580,151**	**22,819,250**	**34%**
Operating surplus			
Surplus before tax and fair value gain on financial assets	**-300,634**	**3,601,707**	**-108%**
Fair value gain on financial assets at fair value through profit or loss	-4,028,706	1,061,285	-480%
Surplus before income tax	**-4,329,340**	**4,662,992**	**-193%**
Income tax expense	1,069,082	5,687	18,699%
Surplus for the year	**-3,260,258**	**4,668,679**	**-170%**

CASH FLOW STATEMENT

	2022 (AUD)	2021 (AUD)	% change
Cash flows from operating activities			
Receipts from customers	30,239,364	25,549,754	18%
Payments to suppliers and employees	(29,484,607)	(21,374,400)	38%
Interest received	99,753	46,080	116%
Net cash inflow from operating activities	**854,510**	**4,221,434**	**-80%**
Cash flows from investing activities			
Proceeds from sale of property, plant and equipment	6,373	8,264	-23%
Payments for property, plant and equipment	(827,825)	(442,940)	87%
Investment distribution income	666,042	828,161	-20%
Purchase of available-for-sale financial assets	(462,044)	(4,630,434)	-90%
Net cash (outflow) from investing activities	**(617,454)**	**(4,236,949)**	**-85%**
Net increase/decrease in cash and cash equivalents	**237,056**	**(15,515)**	**-1,628%**
Cash and cash equivalents at the beginning of the year	7,065,707	7,081,222	0%
Cash and cash equivalents at the end of year	**7,302,763**	**7,065,707**	**3%**

Supporters

APNIC acknowledges and thanks the following organizations for their generous support for APNIC conferences and training events.

SUPPORTERS

(In alphabetical order)

APJII, Asosiasi Penyelenggara Jasa Internet Indonesia

APNIC Foundation

Asia Pacific Telecommunity (APT)

Asia Pacific Advanced Network (APAN)

APTLD

BKNIX

CNNIC, China Network Information Centre

DE CIX

Google

Huawei

ICANN

IDNIC, Indonesia Network Information Centre

Infloblox

Internet Governance Forum

Internet Society

IPv4 Mall

IPv4.Global

IRINN, Indian Registry for Internet Names and Numbers

ISPAB, Internet Services Providers Association of Bangladesh

JPNIC, Japan Network Information Centre

KDDI Foundation

Kentik

MCMC, Malaysian Communications and Multimedia Commission

MOTC, Ministry of Transportation and Communications

MyRepublic

NIXI

Paraqum Technologies

PCTA, Philippine Cable and Telecommunications Association (PCTA)

PHCOLO

SGNIC

SGNOG

Singapore Exhibition & Convention Bureau

TWNIC, Taiwan Network Information Centre

University of Macau

ViewQwest

VNNIC, Vietnam Network Information Center

Appendix: Events attended in 2022

The following is the list of events in which APNIC staff participated. A star (⋆) indicates events where APNIC provided sponsorship

JANUARY	Economy	Engagement type
IPv6 Protocol, Architecture & Address Planning Tutorial	AP	Training
Cryptography Fundamentals Tutorial	AP	Training
9th Meeting of ITU TSAG (Telecommunication Standardization Advisory Group)	CH	Government; NOG
JANOG 49	JP	Membership Development; NOG
4th Interregional Meeting for Preparation of WTSA-20	CH	Government
Looking Lower: Programmable Data Planes (Part 1)	GO	Training
OSPF Operation Tutorial	AP	Training
4th Meeting of the APT Preparatory Group for WTDC-21 (APT WTDC21-4)	TH	Government
Cryptography Fundamentals Tutorial	AP	Training
MyFinTechWeek 2022	MY	Security
PTC'22	US	Technical

FEBRUARY	Economy	Engagement type
APNIC's Vulnerability Reporting Program	Online	Training
NANOG 84	US	NOG
Cryptography Fundamentals Tutorial	AP	Training
IRINN: IPv6 Protocol, Architecture & Address Planning Tutorial	IN	NIR Engagement; Training
IS-IS Operations Tutorial	AP	Training
DNS Fundamentals Tutorial	AP	Training
DNS-OARC 37	US	Technical
ISIF Asia 2021 Grantee Welcome Session	AP	Foundation Projects
OSPF Operation Tutorial	AP	Training
2nd Meeting of the APT Preparatory Group for PP-22 (APT PP22-2)	TH	Government
BGP Fundamentals & Attributes Tutorial	AP	Training
1st IGF 2022 Open Consultations and MAG Meeting	CH	Internet Governance
APNG Camp 15	AP	Development
M3AAWG 54th General Meeting	US	Security
IPv6 Protocol, Architecture & Address Planning Tutorial	AP	Training

	Economy	Engagement type
ITU GSS-20 (Global Standards Symposium)	CH	Government
1st IGF 2022 Open Consultations and MAG Meeting	CH	Internet Governance
APNG Camp 15	AP	Development
M3AAWG 54th General Meeting	US	Security
IPv6 Protocol, Architecture & Address Planning Tutorial	AP	Training
BGP Fundamentals & Attributes Tutorial	AP	Training
ITU GSS-20 (Global Standards Symposium)	CH	Government

MARCH	Economy	Engagement type
ITU WTSA-20	CH	Government
BGP Fundamentals & Attributes Tutorial	AP	Training
IS-IS Operations Tutorial	AP	Training
APAN 53	BD	Development; Training
CNNIC: IPv6 Deployment and RPKI Workshop (Delivered in Mandarin)	CN	NIR Engagement; Training
20th ITCN Asia and Telecom Conference and Expo	PK	Member Outreach
PacSON Virtual Webinar	Oceania	CERT Engagement
Indonesia Honeynet Project Workshop	ID	Security
IPv6 Deployment & Transition Techniques Workshop	PK	Training
APAC DNS Forum 2022	MY	Technical
PhNOG 2022	PH	Membership Development, Member Outreach; NOG; Training
DNS Fundamentals Tutorial	AP	Training
DWDM Fundamentals (Part-1)	AP	Training
Operational & Planning Aspects of DWDM (Part-2)	AP	Training
IETF 113	AT	Technical
MMIX AGM & Mini Peering Forum 2022	MM	Development
Assessing the Promise of Low Earth Orbit (LEO) Satellites in Accelerating Rural	PH	Development
KHNOG Training: Network & Information Security	KH	NOG; Training
Quarterly Threat Sharing & Honeynet Community Session	Online	Security

MARCH	Economy	Engagement type
ICANN 73	PR	Coordination
20th ITCN Asia and Telecom Conference and Expo	PK	Membership Development

APRIL	Economy	Engagement type
BrisSec 2022	AU	Security
yIGF Myanmar 2022	MM	Internet Governance
DNSSEC Fundamentals Tutorial	AP	Training
Network Monitoring and Management (NMM) Fundamentals Tutorial	AP	Training
OECD - 6th Session of the Working Party on Security in the Digital Economy	FR	Government
ARIN 49	US	Coordination
Building your own switch with P4 (Part 2)	Online	Training
PCTA e-Tech Show 2022	PH	Membership Development; Member Outreach; Training
AusNOG 2021 (April '22)	AU	Membership Development; NOG
RPKI Deployathon	AU	Membership Development; Training
Meaningful Access to Advance Digital Societies - UNCTAD's E-Commerce Week	CH	Internet Governance
APT Extraordinary meeting for ITU WTDC-21 (WTDC-e)	TH	Government
Internet Routing Fundamentals Workshop - Malaysia	MY	Membership Development; Member Outreach; Training
MPLS Fundamentals Tutorial	AP	Training
BNE0x33 (52nd Session) - SecTalks Brisbane	AU	Security
Connections 2022 - A post-IETF 113 Forum	IN	Technical
IPv6 Transition: East Asia Perspective	Online	Training

MAY	Economy	Engagement type
INTERPOL Cybercrime Conference for LEAs and Judicial Authorities	TH	Security
NZNOG 2022	NZ	Membership Development; NOG; Training
CSP Threat Landscape 3	Online	Security
3rd ICANN APAC-TWNIC Engagement Forum (37th TWNIC OPM)	TW	Internet Governance; NIR Engagement
DNS Ecosystem Conference	CN	Technical

	Economy	Engagement type
RPKI - Philippines Session	PH	Member Outreach; Training
INNOG 5	IN	NOG; Training
YIGF Nepal 2022	NP	Internet Governance
Corporate Device Management – Securing your employees devices	Online	Training
IRINN: IPv6 Transition Techniques	IN	NIR Engagement; Training
AusCERT 2022	AU	Security
Packet Analysis Tutorial	AP	Training
IRINN OPM	IN	NIR Engagement
RIPE 84	DE	Coordination
BKNIX Peering Forum 2022	TH	Development; Membership Development; Member Outreach; NOG; Training
IPv6 Deployment and Security Tutorial	AP	Training
Network and Information Security Workshop	SG	Training
3rd Meeting of the APT Preparatory Group for PP-22 (APT PP22-3)	JP	Government
PITA Business Forum & Exposition 2022	FJ	Member Outreach
CSP Content Creation/Update Workshop	AU	Security
IPv6 Deployment Workshop - Laos	LA	Training
Breach and Attack Simulation Tools	Online	Training
AIS'22 (AFRINIC 35)	MU	Coordination
What next for Afghanistan?	AF	Member Outreach
Packet Analysis Tutorial	AP	Training
Network Management and Monitoring Workshop	TH	Membership Development; Member Outreach; Training
ROA Creation Failed	BD	Technical Assistance
APEC TEL WG 64th meeting	TH	Government

JUNE	Economy	Engagement type
RPKI - Cambodia Session	KH	Member Outreach; Training
VNNIC Internet Conference 2022	VN	Internet Governance; NIR Engagement; Training
RightsCon 2022	US	Internet Governance

JUNE

	Economy	Engagement type
APT Mongolia IPv6 Deployment Workshop	MN	Training
Security Assurance In the Internet of Things	Online	Training
RPKI/ROA Creation and Update - Philippines Session	PH	Membership Development; Member Outreach; Training
BGP Policy Control Tutorial	AP	Training
SNMP Fundamentals Tutorial	AP	Training
Reverse DNS Tutorial	AP	Training
Root Server Deployment and Operations	Online	Training
TWNIC – Network Security Workshop	TW	NIR Engagement; Training
ITU WTDC 2021 (World Telecommunication Development Conference)	RW	Government
Indonesia MCIT webinar on 5G, IoT and IPv6	ID	Technical; Development; Government
M3AAWG 55th General Meeting	GB	Security
CommunicAsia 2022	SG	Membership Development; Member Outreach
bdNOG 14	BD	Membership Development; Member Outreach; NOG; Training
FIRST Annual Conference 2022	IE	Security
Telekom Malaysia Cyber Security Seminar	MY	Security
Introduction to SDN/OpenFlow Tutorial	AP	Training
QUT - Internet Infrastructure Security Best Practices - Presentation	AU	Member Outreach
ICANN 74	NL	Coordination

JULY

	Economy	Engagement type
RPKI/ROV Tutorial and ROA Session Mongolia	MN	Member Outreach; Training
Transport Layer Security (TLS) and Secure Socket Layer (SSL)	AP	Training
IDNOG 7	ID	Membership Development; Member Outreach; NIR Engagement; NOG; Training
CNNIC: IPv6 Deployment (Delivered in Mandarin)	CN	NIR Engagement; Training
Historical Resource Management and the benefits of RPKI	Online	Training

	Economy	Engagement type
PhNOG 2022 Hybrid	PH	Member Development; Member Outreach; NOG; Training
IPv6 Transition Techniques	AP	Training
Transport Layer Security (TLS) and Secure Socket Layer (SSL)	AP	Training
UNODC Seminar on Ramsomware	AP	Security
IETF 114	US	Technical
JANOG 50	JP	NOG
Defend your web apps for free with mod security	Online	Training
IGF 2022 2nd Open Consultations & MAG Meeting	CH	Internet Governance
DNS OARC 38	US	Technical
IPv6 Transition Techniques	AP	Training
RPKI/ROV Tutorial and ROA Session Cambodia	KH	Member Outreach; Training
WIC - First General Assembly	CN	Government
BSides Brisbane 2022	AU	Security
APT Myanmar Network Security Workshop	MM	Training
SANOG 38	NP	Membership Development; Member Outreach; NOG; Training

AUGUST

	Economy	Engagement type
Inaugural Small Islands Developing States (SIDS) Internet Governance Forum (IGF)	Oceania	Internet Governance
Youth IGF Bangladesh 2022	BD	Internet Governance
IAA@AusNOG 2022	AU	Membership Development
Tonga Cyber Community Networking	TO	Security
Swiss German University (Indonesia) Digital Clinic Seminar	ID	Security
The 53rd AI3/SOI Asia Directors Meeting	ID	Foundation Projects
RPKI/ROV Tutorial and ROA Session Philippines	PH	Member Outreach; Training
How USD$0 cloud infrastructure can support your business	Online	Training
Round-Robin Database (RRD) Fundamentals	AP	Training
RPKI/ROV Tutorial and ROA Session Cambodia	KH	Member Outreach; Training
So, you want to build a Data Centre	Online	Training

AUGUST

AUGUST	Economy	Engagement type
Community Networks - Frugal Technologies and Community of Practice	Online	Internet Governance
Global IPv6 Summit 2022	CN	Technical
PacNOG 30	FJ	Membership Development; Member Outreach; NOG; Training
BGP Multihoming	AP	Training
Memory Forensics Tutorial for Tonga Security Community	TO	Security
ITCN Expo 2022 Karachi	PK	Membership Development; Member Outreach
15th APT Policy and Regulation Forum for Pacific (PRFP-15)	VU	Government
Cyber Safety Pasifika - Tier 2 Course	FJ	Security
APIGA 2022	KR	Internet Governance
Fourth Meeting of the APT Preparatory Group for PP-22 (APT PP22-4)	TH	Government
CompTIA Partner Summit 2022	US	Foundation Projects
Future of data governance in LAC / IDRC & D4D.net	AP	Internet Governance
RPKI/ROV Tutorial and ROA Session Mongolia	MN	Member Outreach; Training
APAN 54	CN	Development; Training
APNIC: Macau - Intro to Internet Routing Tutorial	MO	Training
APNIC: Macau - Information Security Tutorial	MO	Training
SGNOG 9	SG	Membership Development; Member Outreach; NOG

SEPTEMBER

SEPTEMBER	Economy	Engagement type
APNIC 54	SG	APNIC; Membership Development; Member Outreach; Training
CrikeyCon 8	AU	Security
MyNOG 9	MY	Membership Development; Member Outreach; NOG
RPKI/ROV Tutorial and ROA Session Mongolia	MN	Member Outreach; Training
IXP Setup Workshop - Maldives	MV	Training
Global Dialogue on Digitalization - MN (Virtual)	MN	Security
China Internet Infrastructure Resource Conference (CNIRC) 2022	CN	Government; NIR Engagement

	Economy	Engagement type
AusNOG 2022	AU	Membership Development; NOG
RPKI/ROV Tutorial and ROA Session Philippines	PH	Member Outreach; Training
PacSON 2022	FJ	CERT Engagement
Packets don't lie - Threat Hunting with Zeek	Online	Training
RPKI/ROV Tutorial and ROA Session Cambodia	KH	Member Outreach; Training
inSIG 2022	IN	Internet Governance
GFCE Triple-I Workshop and India Youth IGF 2022	IN	Internet Governance
Asia Peering Forum 2022	SG	Technical
ITU PP-22 (Plenipotentiary Conference 2022)	RO	Government
ICANN 75 (24th AGM)	MY	Coordination
Philanthropy Australia National Conference 2022	AU	Foundation Projects
APrIGF 2022 and APSIG 2022	SG	Internet Governance
SD-WAN - An overview	Online	Training
RIPE 85	RS	Coordination

OCTOBER

OCTOBER	Economy	Engagement type
mnNOG 4	MN	NOG; Training
NZITF Conference 2022	NZ	Security
MN Security Community Engagement	MN	CERT Engagement; Security
ISLET – Connect: Demonstration and Stakeholder Engagement Event	AP	Foundation Projects
RPKI/ROV Tutorial and ROA Session Nepal	NP	Member Outreach; Training
RPKI/ROV Tutorial and ROA Session Mongolia	MN	Member Outreach; Training
Indonesia Academic CSIRT Conference	ID	CERT Engagement
OARC 39 & 47th CENTR Technical Workshop	RS	Technical
RPKI/ROV Tutorial and ROA Session Fiji	FJ	Member Outreach; Training
VNIX-NOG 2022	VN	Member Outreach; NOG; Training
Internet Routing Workshop - Timor-Leste	TL	Training
RPKI/ROV Tutorial and ROA Session Philippines	PH	Member Outreach; Training
LACNIC 38/LACNOG 2022	BO	Coordination; NOG

OCTOBER

	Economy	Engagement type
btNOG 9	BT	Membership Development; Member Outreach; NOG; Training
NANOG 86	US	NOG
Open Lab - Routing	AP	Training
ISPAB IPv6 Workshop	BD	Training
ARIN 50	US	Coordination
Open Lab - Linux Basics	AP	Training
PCTA USAID Connectivity and Cybersecurity Conference	PH	Training
Cybergreen Annual Meeting 2022	AU	Foundation Projects
Cyber Security Week Bangladesh	BD	Security
PRIF Week (Pacific Regional Infrastructure Fund)	AU	Foundation Projects
NetThing 2022	AU	Internet Governance
HKNOG 11.0	HK	NOG
FIRST Virtual Asia Pacific Regional Symposium	AP	Security
ITU PITA Forum on Smart islands	FJ	Government
RPKI/ROV Tutorial and ROA Session Cambodia	KH	Member Outreach; Training

NOVEMBER

	Economy	Engagement type
Open Lab - IPv6	AP	Training
IANA Community Day	BE	Technical
DWDM Tutorial	AP	Training
BDIGF 2022	BD	Internet Governance
Open Lab - Linux Basics	AP	Training
FIRST Cyber Threat Intelligence Symposium	DE	Security
Advanced Routing with Multihoming Workshop Malaysia	MY	Development; Member Outreach; Training
Open Lab - Routing	AP	Training
How to set up Router/OS 7 and ROV	Online	Training
Switch! Viet Nam Welcome Event	VN	Foundation Projects
A retrospective look at IPv6 deployment in the region	Online	Training
RPKI/ROV Tutorial and ROA Session Philippines	PH	Member Outreach; Training
Peering Asia 4.0	TH	Development
KHNOG 4	KH	NOG

	Economy	Engagement type
Pacific Telecommunications Security Expert Forum (PTSEF)	AU	Security
The Australasian AID Conference (AAC) 2022	AU	Foundation Projects
ITCS 2022	IN	Membership Development; Member Outreach
Internet Governance Forum 2022	ET	Internet Governance
RPKI/ROV Tutorial and ROA Session Cambodia	KH	Member Outreach; Training
Samoa IT Association (SITA) Tech Expo	WS	Security
UMS Cybersecurity Awareness Seminar 2022	MY	Security
LKNOG 6	LK	Membership Development; Member Outreach; NOG; Training
Open Lab - DNS	AP	Training
ICANN DNS Symposium (IDS 2022)	BE	Technical
Internet Routing Workshop Cambodia	KH	Training
KRCERT/CC (KISA) APISC Annual CERT Workshop 2022 (Virtual)	KR	CERT Engagement
Switch! Thailand Welcome Event	TH	Foundation Projects
RPKI/ROV Tutorial and ROA Session Pacific	Oceania	Member Outreach; Training
IPv6 Awareness Tutorial - Mongolia	MN	Training
FNU Cyber Security Awareness Symposium	FJ	Security
IDNIC AMM 2022 & Security Workshop	ID	Member Outreach; Membership Development; NIR Engagement; Security
54th AI3-SOI Asia Joint Meeting	PH	Foundation Projects
IETF 115	GB	Technical
Switch! Philippines Welcome Event	PH	Foundation Projects

DECEMBER

	Economy	Engagement type
CNNIC: IPv6 and RPKI Workshop (Delivered in Mandarin)	CN	NIR Engagement; Training
RPKI/ROV Tutorial and ROA Session	Oceania	Training
BtCIRT Cybersecurity Bootcamp	BT	CERT Engagement
Switch! Timor Leste Welcome Event	TL	Foundation Projects
Switch! Cambodia Welcome Event	KH	Foundation Projects
Open Lab - DNS	AP	Training
RPKI Deployment Status: 2022 in Review	Online	Training

DECEMBER

DECEMBER	Economy	Engagement type
UN-OEWG ICTs 2021-2025 Informal Meeting (Dec 2022)	US	Government
Switch! Laos Welcome Event	LA	Foundation Projects
LANOG Mini-Event	LA	NOG
CNCERT International Partnership Conference 2022	CN	CERT Engagement
Vietnam Internet Day 2022	VN	Development
ICANN Root Server System Governance Working Group	US	Technical
TWNIC 38th OPM	TW	Membership Development; Member Outreach. NIR Engagement; NOG; Training
KDDI Foundation– Network Security and Incident Handling	LA	Training
bdNOG 15	BD	NOG; Training
Open Lab - IPv6	AP	Training
RPKI/ROV Tutorial and ROA Session Nepal	NP	Training

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Agenda Item 19
APNIC 55 AGM agenda

APNIC Annual General Meeting (AGM)

Thursday, 2 March 2023

*Draft agenda – v06

Time (UTC +8)	Topic	Speaker
AGM (1): 09:30 – 11:00		
09:30	EC Chair welcome, introductions, and opening remarks	Gaurab Raj Upadhaya
09:40	APNIC EC Election Procedures	Jeremy Harrison
09:50	Introduction of EC Election Nominees	Lito Averia
10:00	APNIC Activity Report 2022	Paul Wilson
10:40	APNIC EC Treasurer Report	Kenny Huang
10:55	**Open mic**	
11:00	Break	
AGM (2): 11:30 – 13:00		
11:30	APNIC Activity Plan 2023	Paul Wilson
11:55	APNIC EC Report	Gaurab Raj Upadhaya
12:10	**Open mic**	
12:20	Policy SIG Report	Bertrand Cherrier
12:35	Joint SIG Meeting Report	Bertrand Cherrier
12:45	Routing Security SIG Report	Di Ma
12:55	Reminder: APNIC EC Voting	Sunny (or Gaurab)
13:00	Lunch	
AGM (3): 14:30 – 16:00		
14:30	Reminder: APNIC EC Voting Close	Sunny (or Gaurab)
14:35	NIR SIG Report	Oanh Nguyen
14:40	Cooperation SIG Report	Joy Chan
14:45	Internet Association Leaders Forum (IALF) BoF Report	Muhammad Arif
14:50	APIX Report	Katsuyasu Toyama
14:55	APNIC 56	JPNIC (TBC)
15:05	APIDT Report	Richard Brown
15:20	**Open mic**	
15:30	Vote of Thanks	Paul Wilson
15:45	APNIC EC Election Results	Lito Averia
15:55	APNIC EC Closing Remarks	Gaurab Raj Upadhaya
16:00	End of AGM	