

IPv4 Addressing in China

CNNOG 3 21-22 April 2006, Beijing Guangliang Pan

**APNIC** 

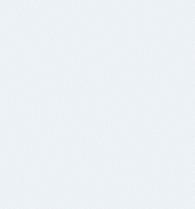
#### Overview

- IPv4 Addressing in China
- Internet Registry Structure
- IPv4 address allocation statistics
  Global, AP region and China
- Where to request IPv4 addresses?
- IPv4 Address management policies
- Other information

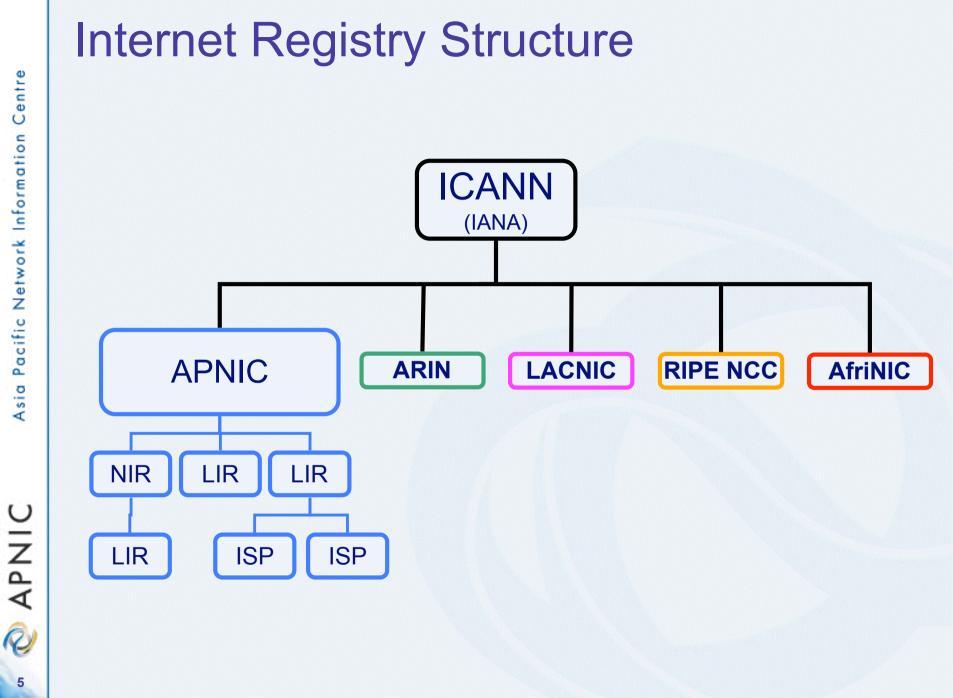
**APNIC** 

# IPv4 Addressing in China

- China has 77,710,848 IPv4 addresses as at 31 March 2006. It is equal to 4.63 \* /8.
- IPv4 address space is not running out immediately, IANA still has 62 \* /8 reserved for future allocations.
- There are strong growth of IPv4 address allocations to China since 2000.
- Organisation in China like others go through the same process to receive IPv4 addresses.



# **Internet Registry Structure**



Centre Pacific Network Information Asia

#### What is **APNIC**?

- Regional Internet Registry (RIR) for the Asia Pacific region
  - One of five RIRs currently operating around the world
  - Non-profit, open membership

organisation

- Responsible for distributing Internet
- resources throughout the AP region
- Industry self regulatory body

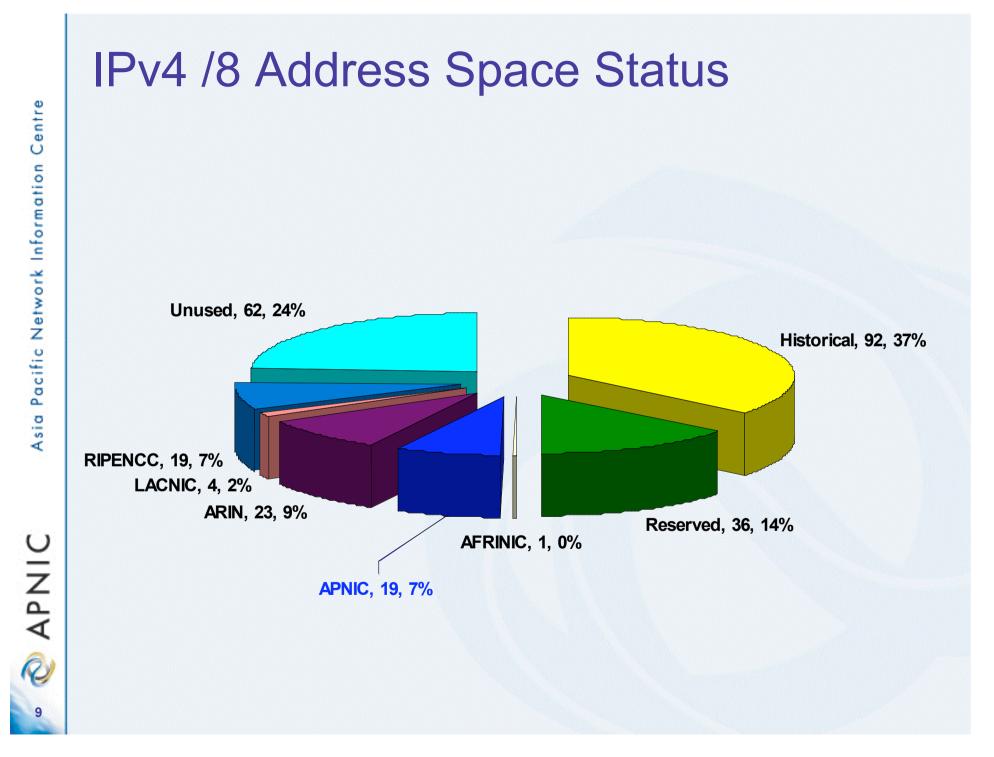


#### Where is APNIC Region?

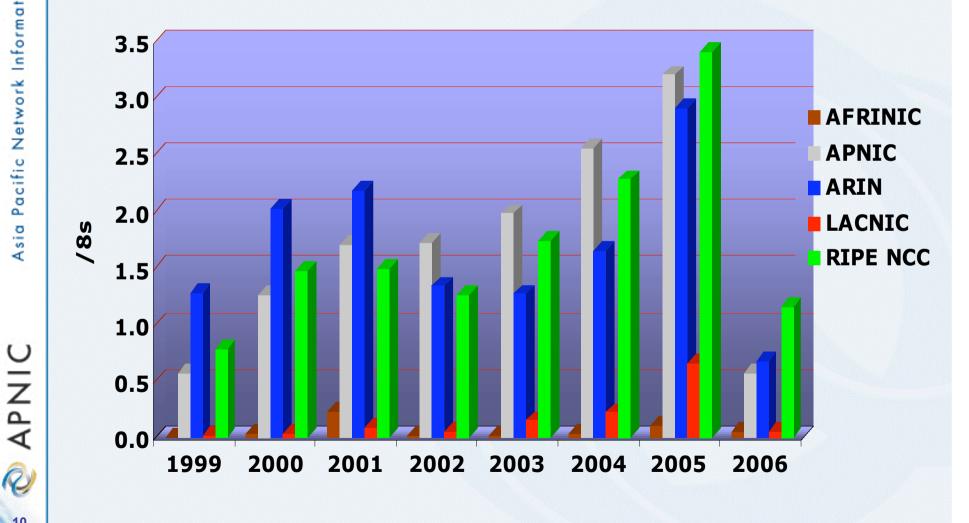




#### **IPv4 Address Allocation Statistics**



# IPv4 Allocations from RIRs to LIRs/ISPs **Yearly Comparison**



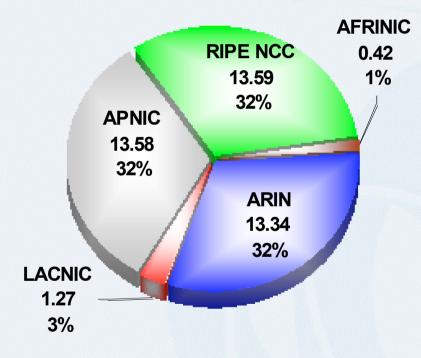
Centre Asia Pacific Network Information

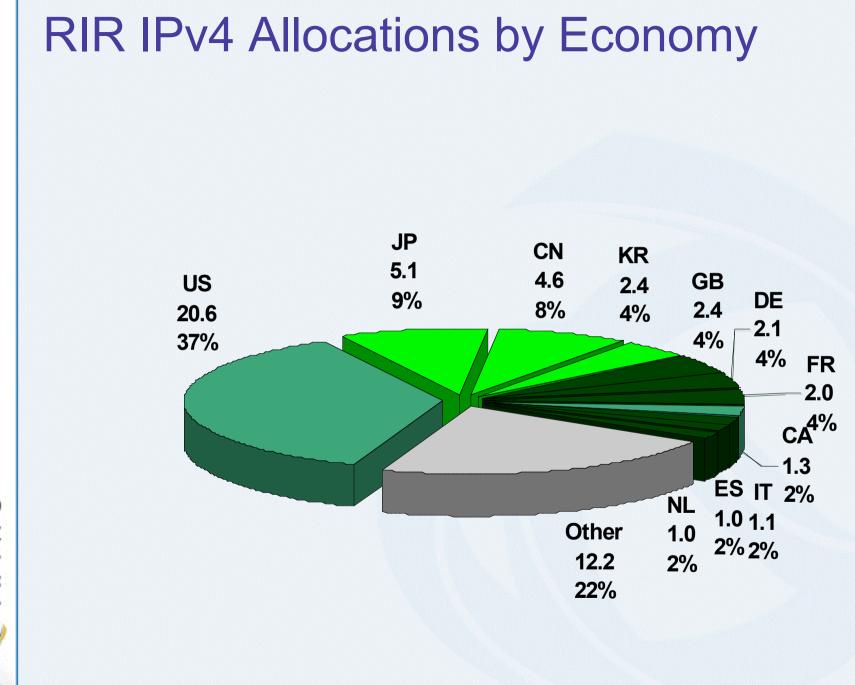
🖉 APNIC

11

# IPv4 Allocations RIRs to LIRs/ISPs

Cumulative Total (Jan 1999 – Mar 2006)

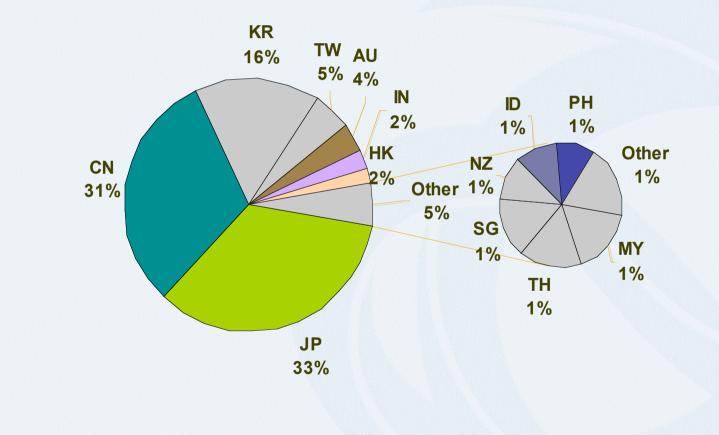




Asia Pacific Network Information Centre

🔌 APNIC

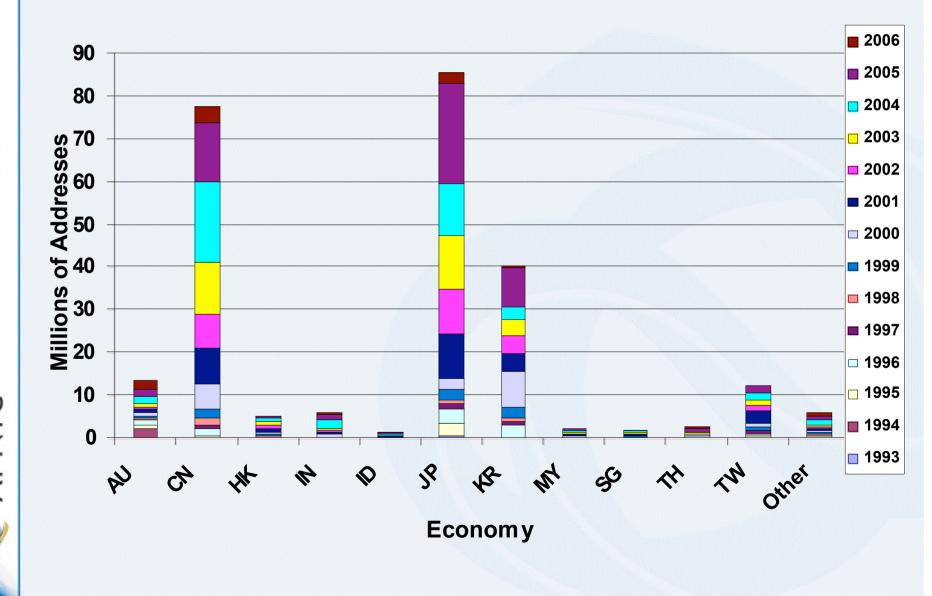
# IPv4 Address Allocations by Economy in AP Region





**APNIC** 

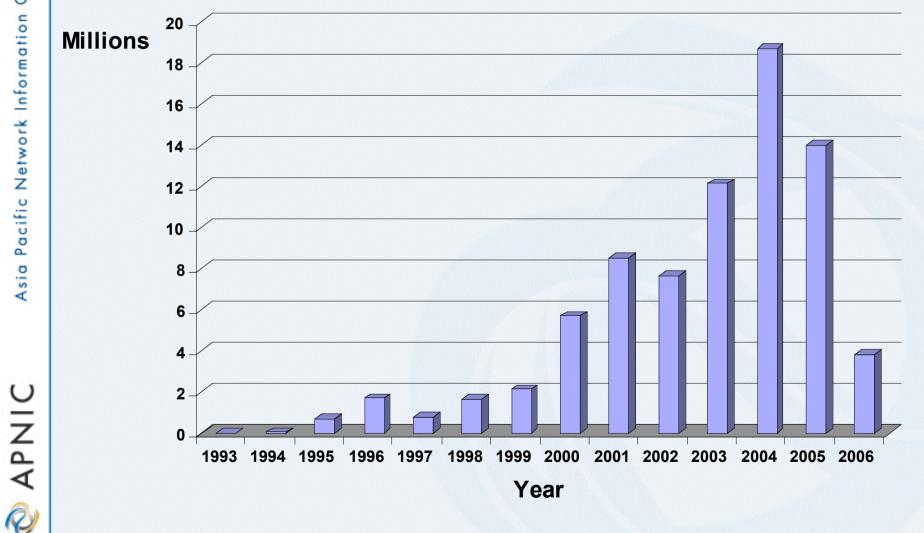
# IPv4 Address Allocations by Economy by Year in AP Region



Asia Pacific Network Information Centre

🖉 APNIC

#### IPv4 Address Allocations to China by Year



#### Where to Request IP Addresses?

- 1. From your upstream ISP
  - Receive an assignment or sub-allocation
  - Address space is non-portable
- 2. From CNNIC
  - CNNIC member
  - -Address space is portable
- 3. From APNIC
  - -APNIC member
  - -Address space is portable

#### **IPv4 Address Allocation Policies**

- Policies for IPv4 address space management in the Asia Pacific region
  - <u>http://www.apnic.net/docs/policy/add-manage-policy.html</u>
- All IPv4 address allocations are made according to demonstrated need under a consistent set of policies.
- It is fair to every economy and organisation.

#### Know More about IP Addressing

- Visit our website
  - -<u>http://www.apnic.net</u>
- Attend our training
  - -We have training in China every year
  - Just had one in April and another one will be in Oct 2006.
- Contact our helpdesk
  - Phone: 61-7-3858 3188
  - Speak your languages ©



# Thanks!

