



The RIR System

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What are RIRs?

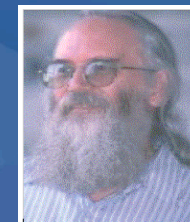
- Regional Internet Registries
 - Allocation and registration of IP addresses and related “Internet resources”
 - Open policy process
 - Technical services, training and education...
 - No involvement in DNS registration!
- First established in early 1990's
 - Voluntarily by consensus of community
 - To satisfy emerging technical/admin needs

Early years: 1981 – 1992



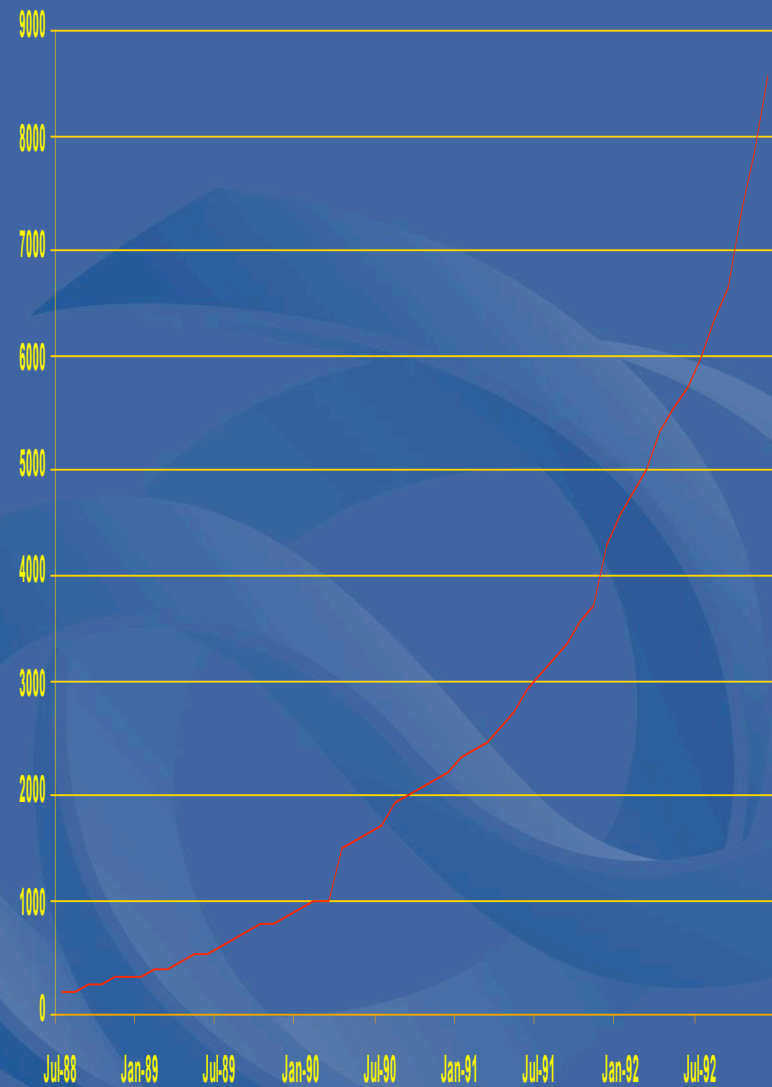
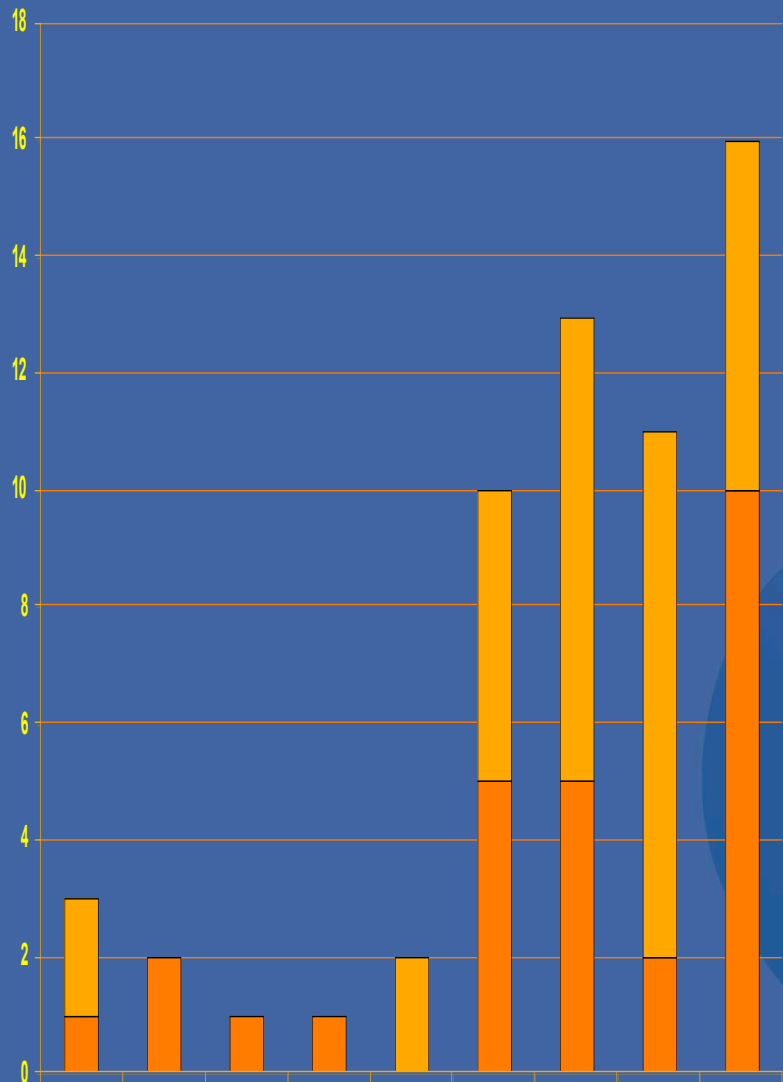
1981:

“The assignment of numbers is also handled by Jon. If you are developing a protocol or application that will require the use of a link, socket, port, protocol, or network number **please contact Jon to receive a number assignment.**” (RFC 790)





Addresses and Routing: '83 – '91



The Boom: 1992 – 2001

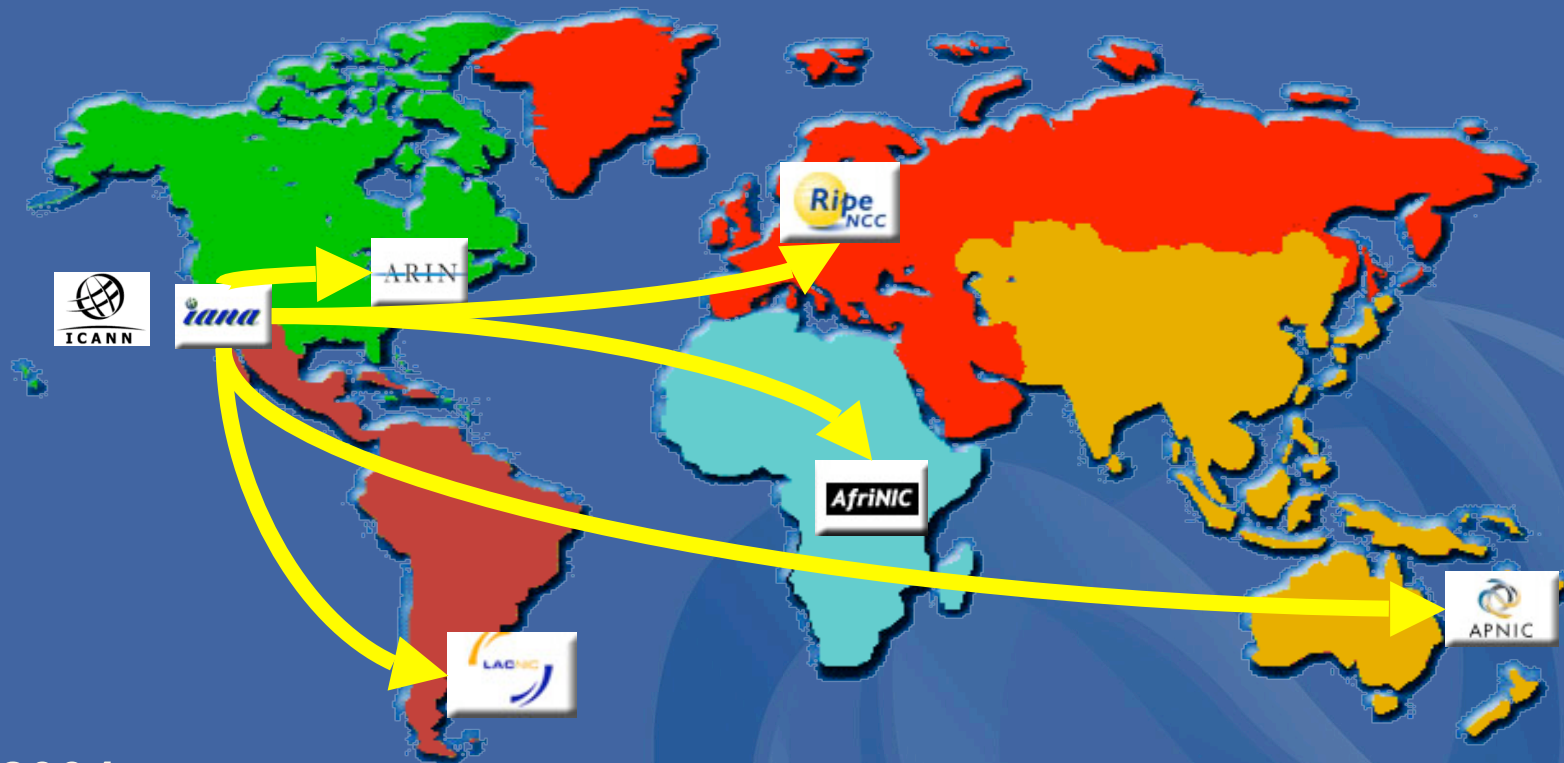


1992:

“It has become clear that ... these problems are likely to become critical within the next one to three years.” (RFC1366)

“...it is [now] desirable to consider delegating the registration function to an organization in each of those geographic areas.” (RFC 1338)

Today: 2002 – 2006



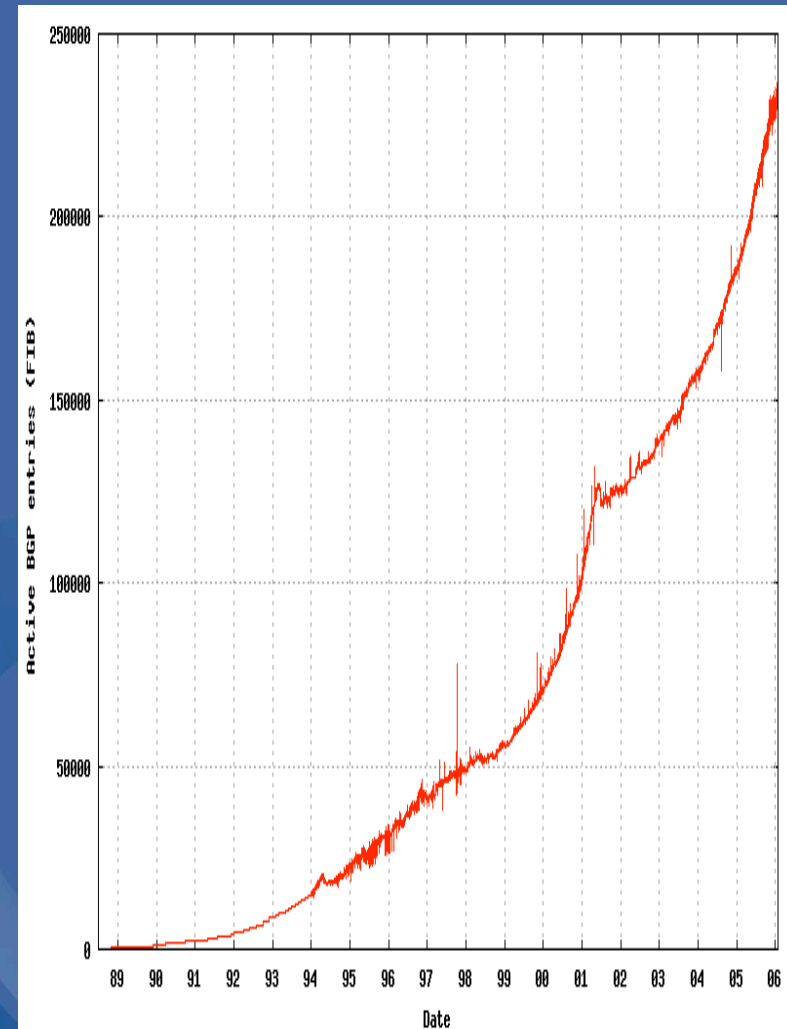
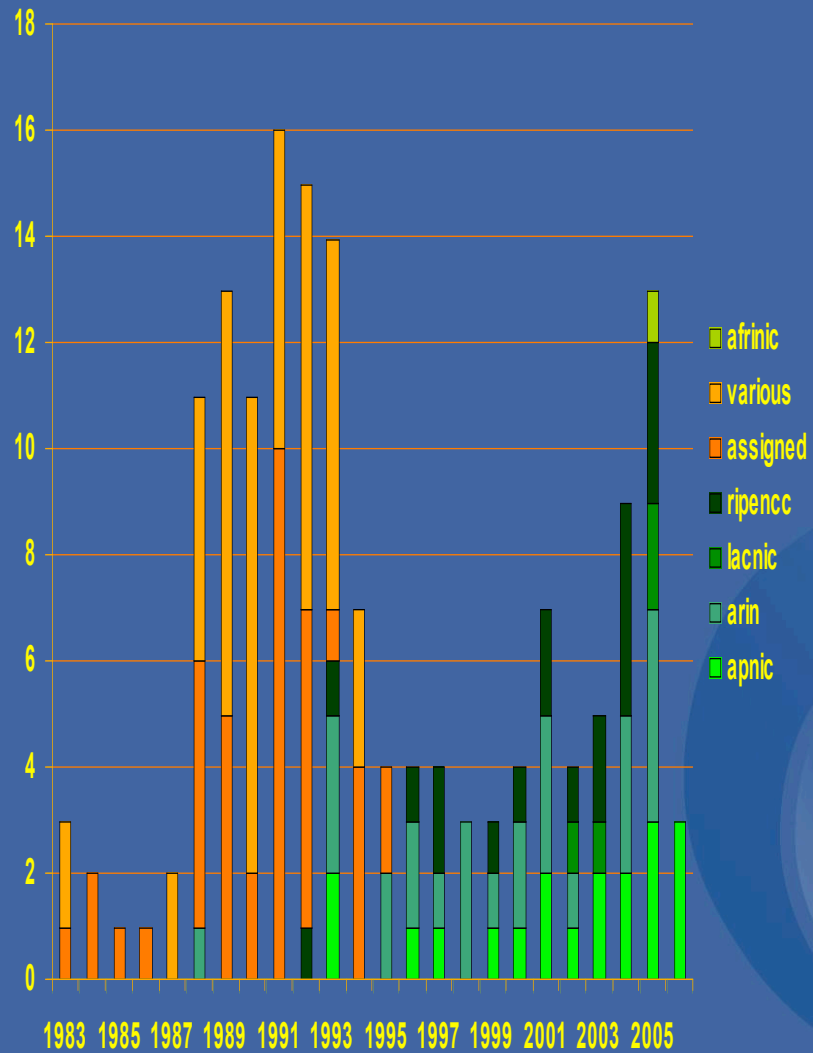
2004:

Number Resource Organisation





Addresses and Routing : 2006

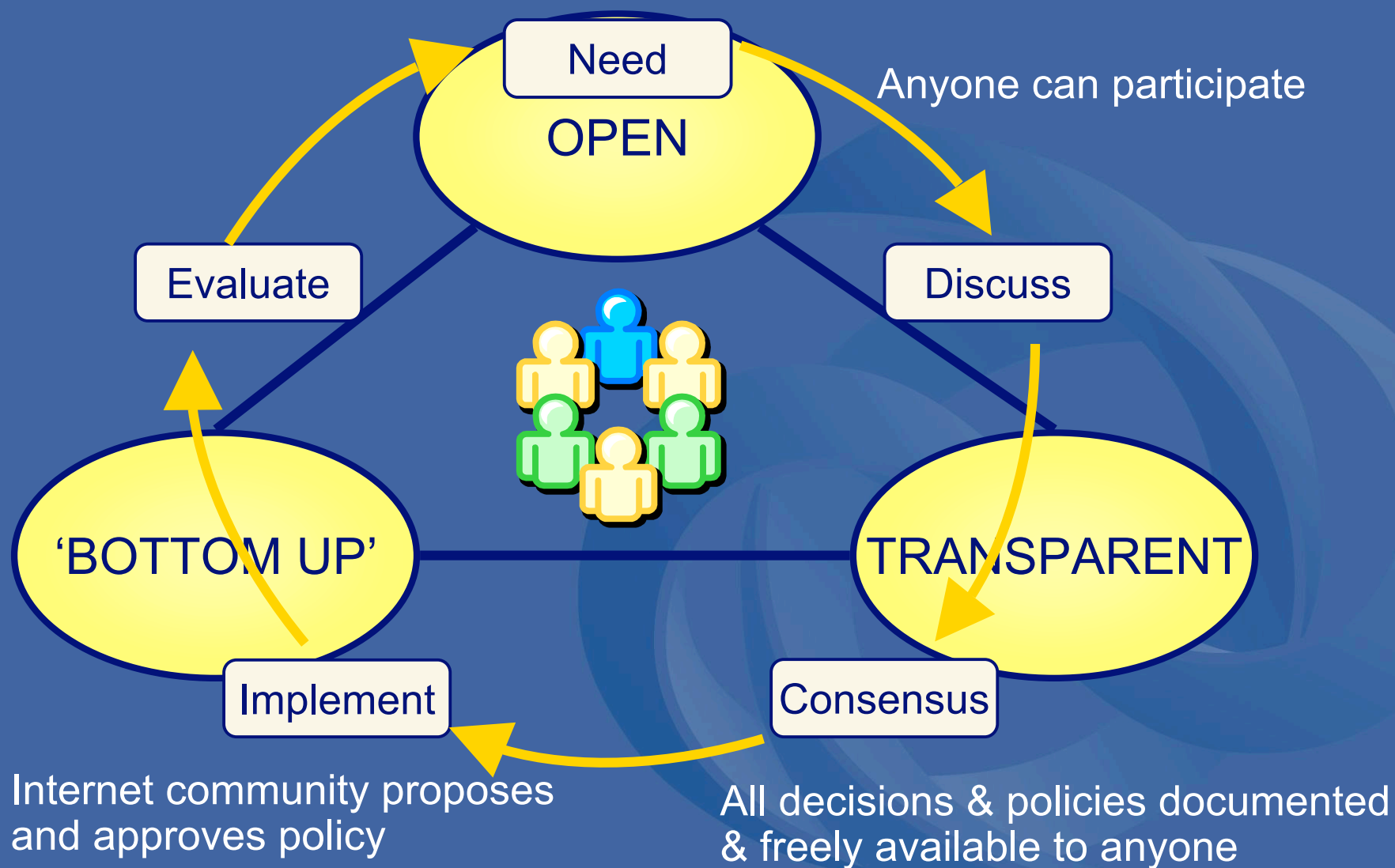


What else are RIRs?

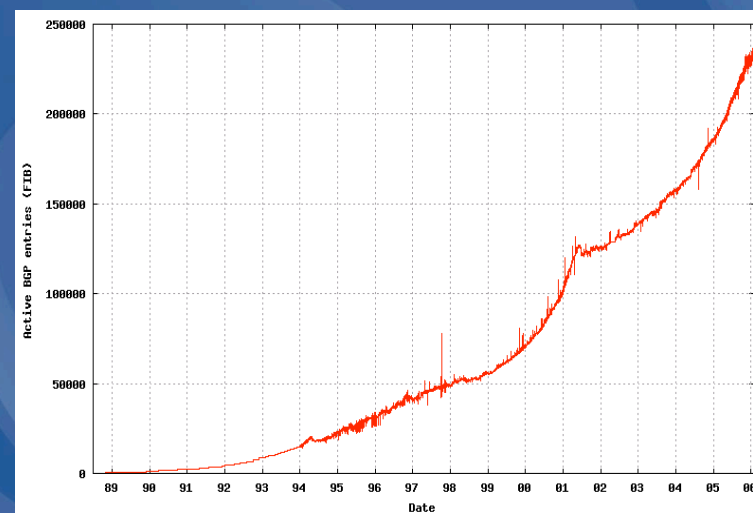
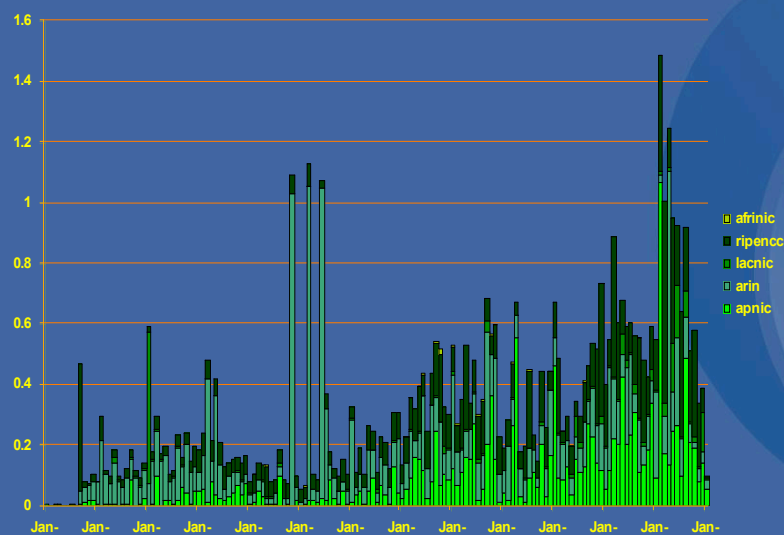
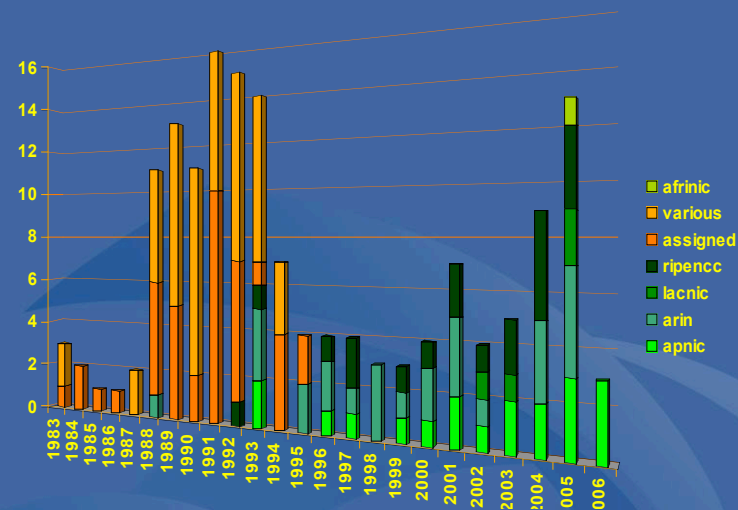
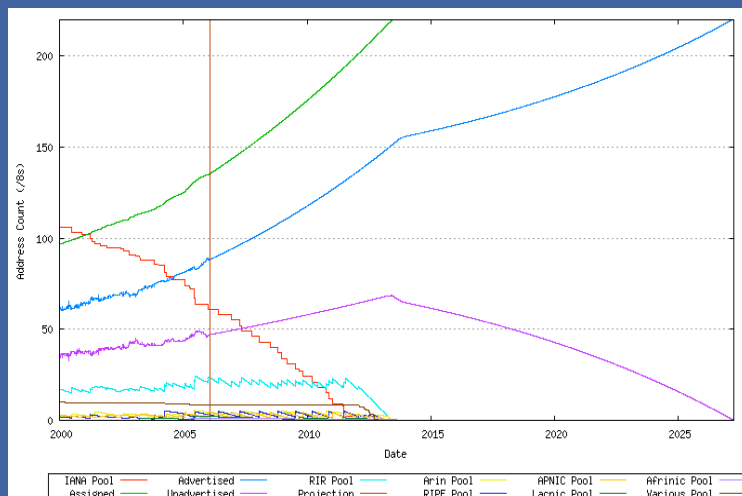
- Industry self-regulatory structures
 - Open membership-based bodies
 - Self-funded service organisations
 - Non-profit, neutral and independent
- Participants in the ICANN process
 - Through NRO and ASO
- In the “Internet Tradition”
 - Consensus-based decision making
 - Open and transparent
 - Multi-stakeholder processes



RIR Policy Development Process



RIR research and reporting



Internet Geography

- “Nations” of the Internet are networks
 - “Frontiers” are border routers
 - “Treaties” are peering relationships between relationships
- It’s a very dynamic world...
 - New nations are formed daily, borders hourly
 - Routing tables change by the minute
 - Driven by industry – no centralised control
- Very different from “traditional” networks
 - telephony for example
 - ... and requiring a very different approach



Thanks

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<http://www.apnic.net>