RIPE Anti-Abuse Working Group

RIPE

- Policy forum

- Not a legal entity

- No official membership

- One RIPE chairman and WG chairs

- Open for anyone

- No voting, **consensus** is "the magic word"

- Policy work in Working Groups (WGs) and specific tasks in Task Forces (TFs)

RIPE Meetings

- Twice a year, somewhere in the RIPE NCC service region.

- Plenary discussions on wide ranging topics.

- More focused Working Group meetings.

- Policy discussed, but rarely decided.

- Intensive exchange of views and information.

- Interaction with other Internet stakeholders.

AA-WG: A Little History

- Anti-Spam Working Group formed in 1998.

- Produced the document "Good Practice in Minimising E-mail Abuse" (RIPE-409).

- Awareness that Spam was increasingly a symptom of deeper network abuse.

- Rewrote the charter to widen the scope and became Anti-Abuse Working Group in 2007.
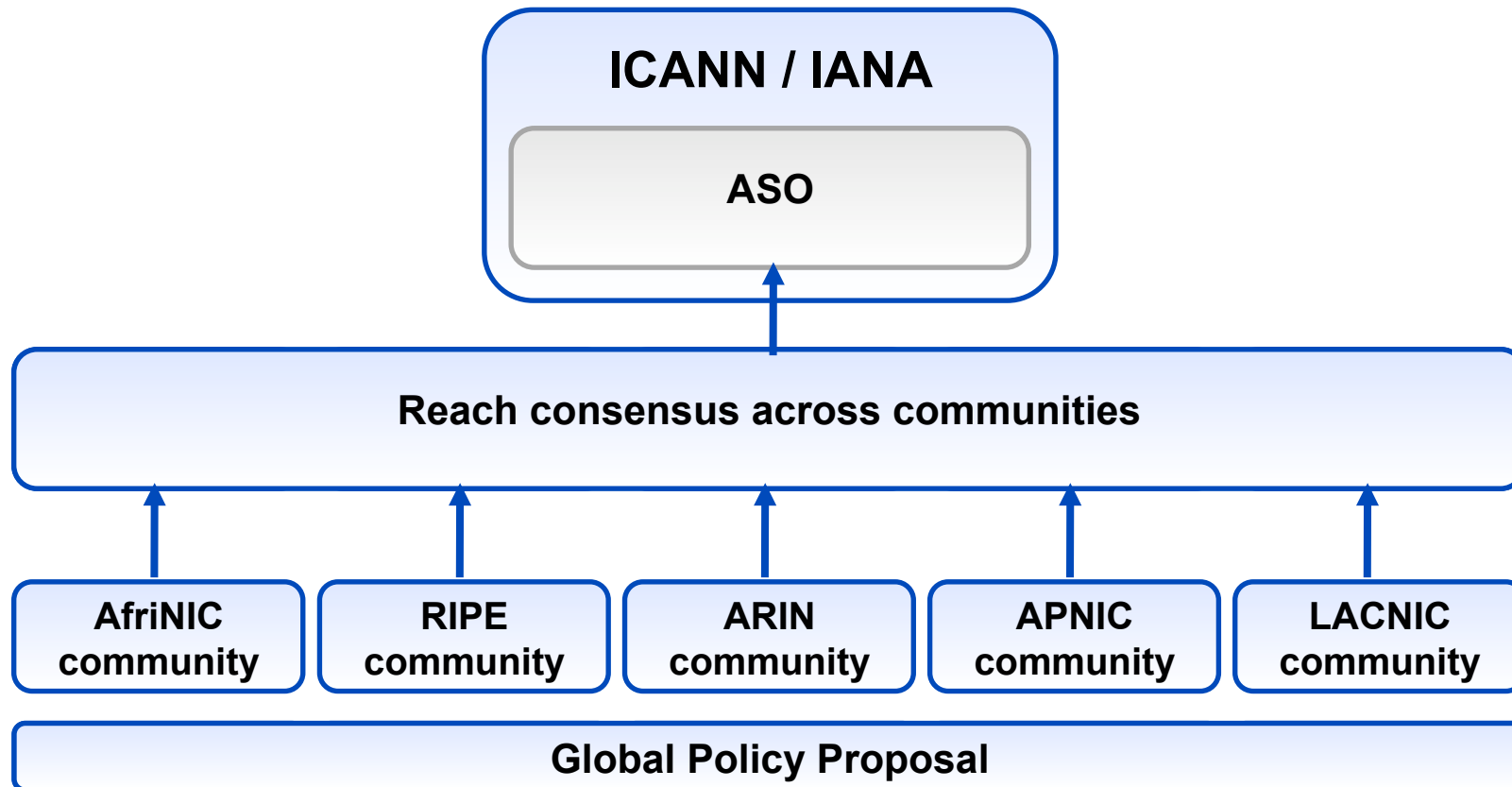
Anti-Abuse Working Group Now

- Mailing list allows for wide participation.
- WG meets twice a year at RIPE meetings.
- Charter with specified activities:
  - To produce and continue to update a BCP (Best Common Practice) document for ISPs.
  - To provide advice (beyond that of the BCP) to relevant parties within the RIPE region such as ISPs, Governments and Law Enforcement Agencies on strategic and operational matters.
  - To discuss and disseminate information on technical and non-technical methods of preventing or reducing network abuse.
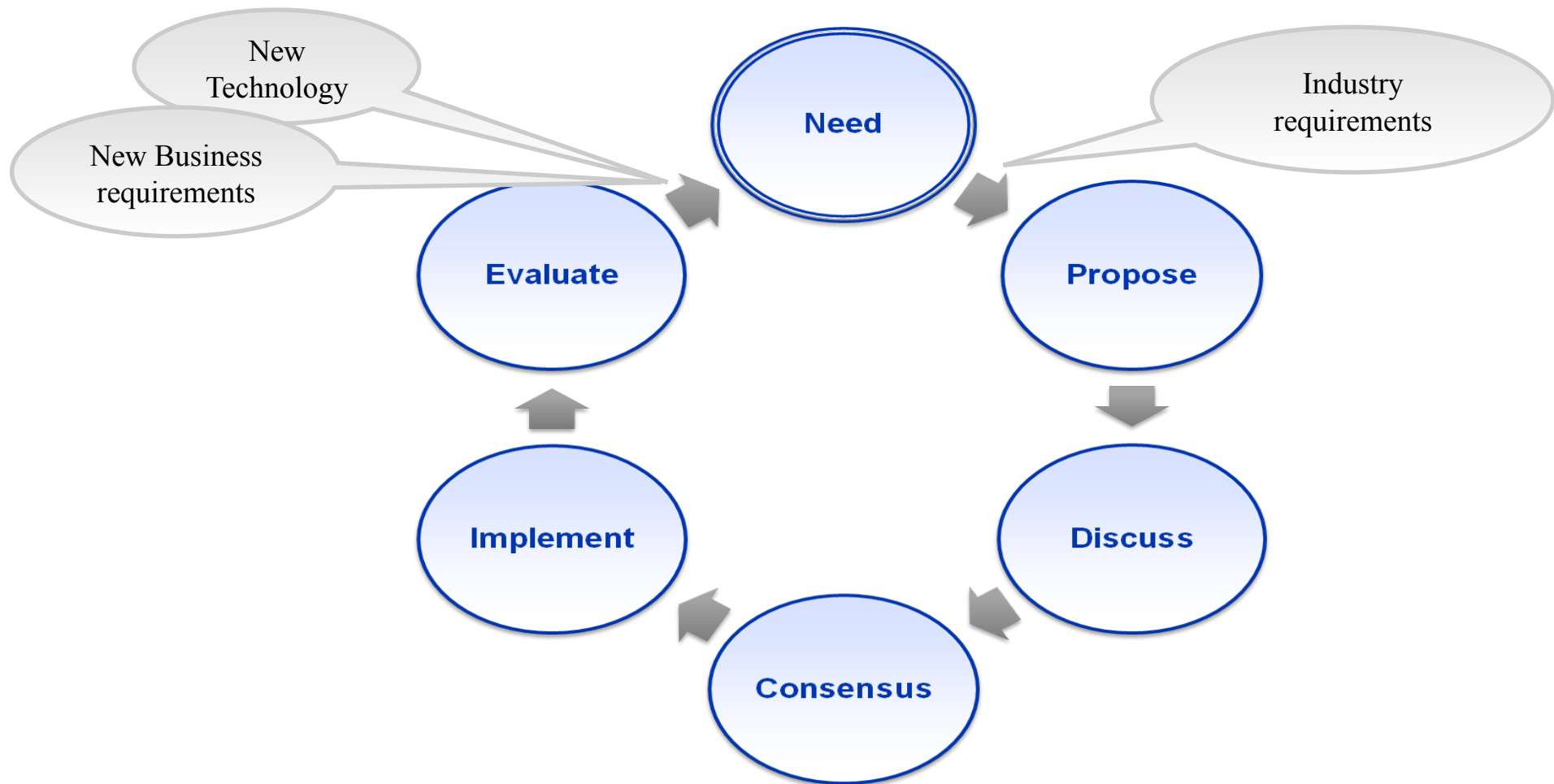
RIPE Policy Development Process Principles

- Open
  - Anyone can participate
  - Policy meetings
  - Mailing lists
- Transparent
  - Mailing lists archived
  - Meetings scribed
- Developed Bottom-up
  - By the Internet Community
- Documented
  - Formal Policy Documents
  - Implementation Procedures

How Global Policy Is Made

Policy Development Process:
Community's (bottom-up) Answer to demand for change

New Technology

New Business requirements

Industry requirements

Need

Propose

Discuss

Consensus

Implement

Evaluate

Recent RIPE policies

- Direct End User assignments from the RIPE NCC
  - Improved registration database.
  - Further prevention of address hijacking.

- Reallocation of IP resources between LIRs
  - Transfers possible between LIRs
  - Based on need

- Global policy for last /8 IPv4 Blocks
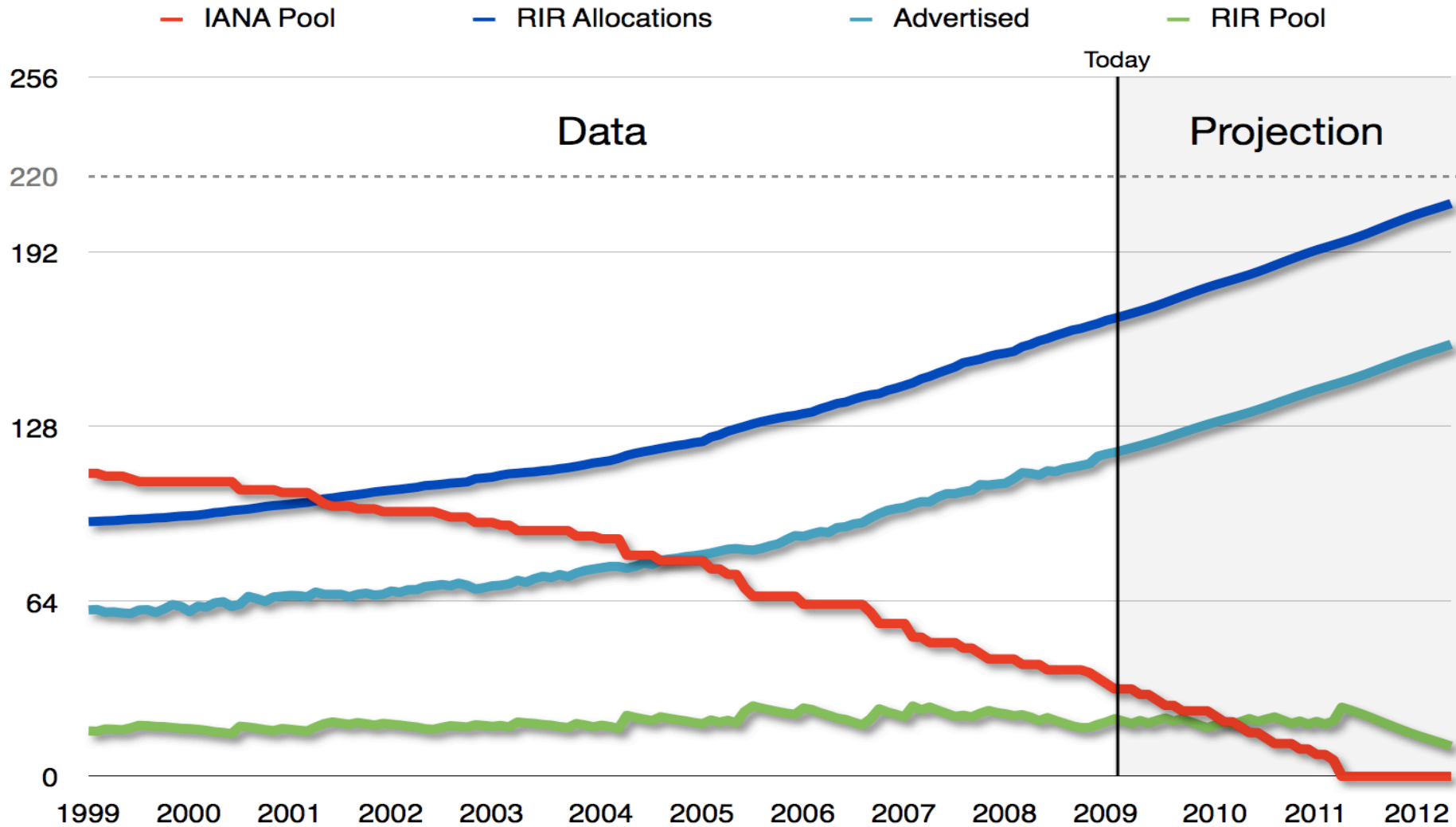 - All RIRs will receive a /8 when there are only five /8 left with IANA

IPv4 Address Pool - Now

12%
available

Other

Central Registry

RIPE NCC

AfriNIC

ARIN

LACNIC

APNIC

RIPE
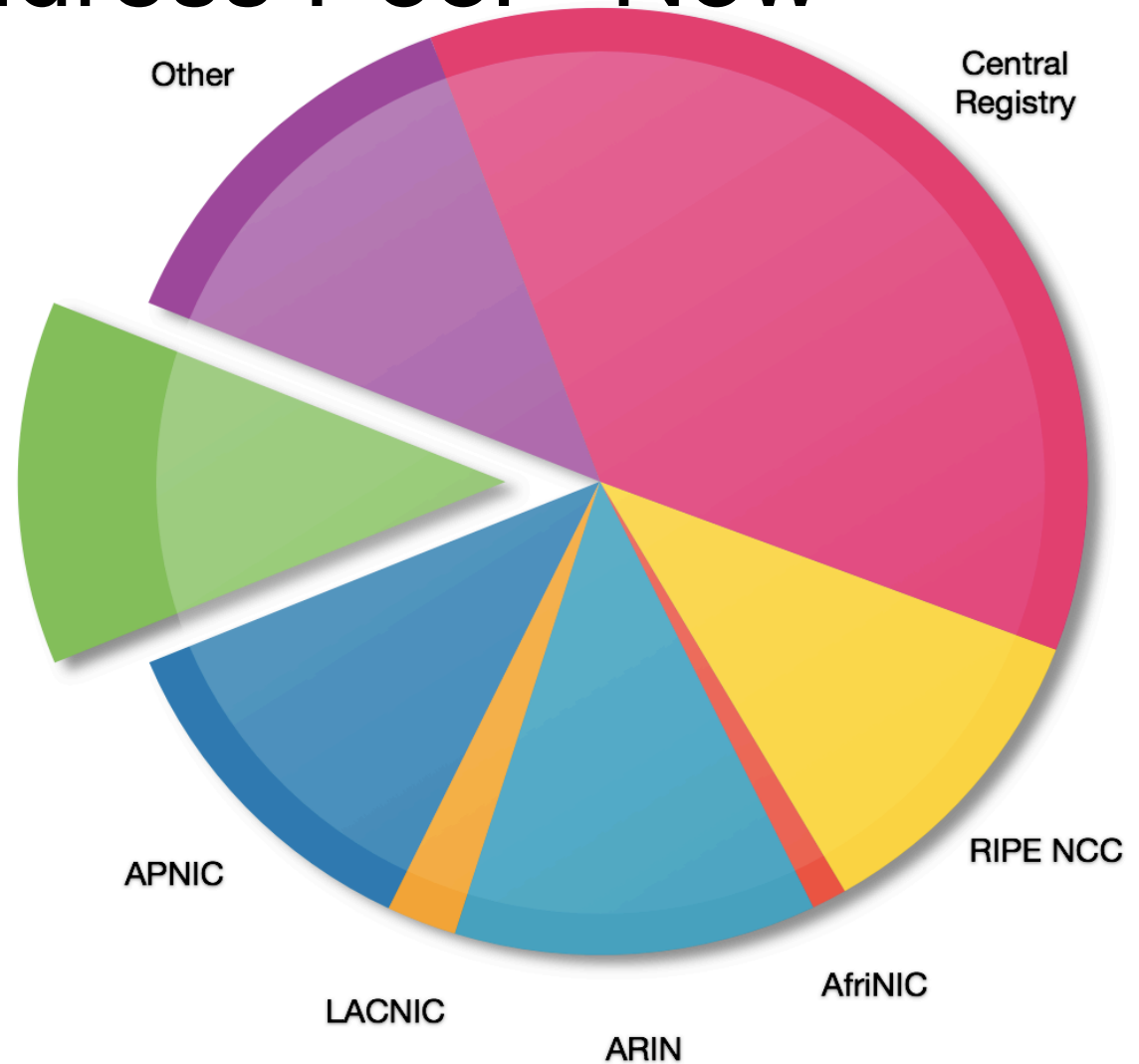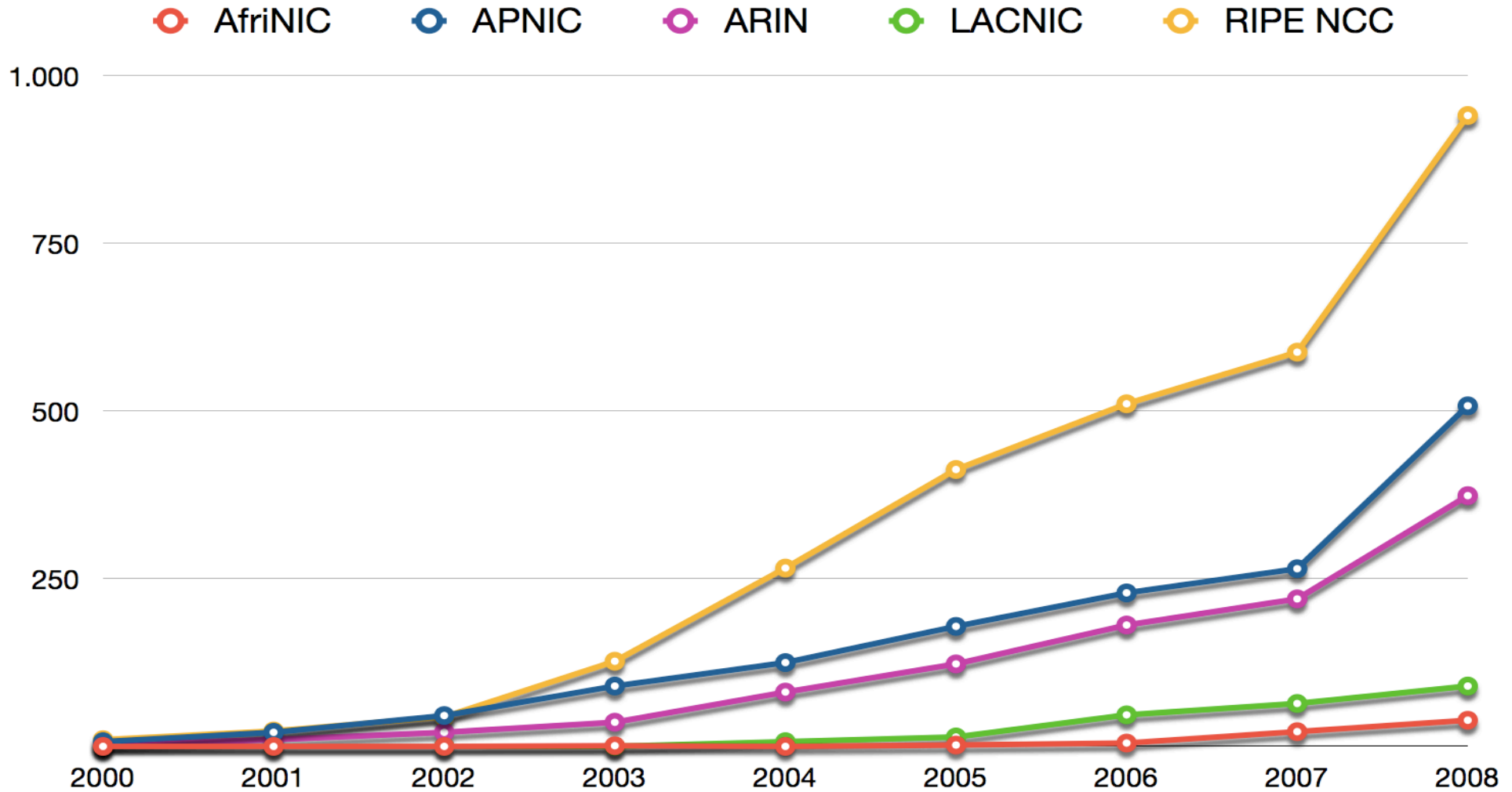
IPv4 Address Pool - Projection

source: http://potaroo.net

IPv4 Depletion

- Isn't it all just plumbing?
- IP Address as a unique identifier.
- Obfuscation of NAT (Network Address Translation).
- Multiple layers of NAT.
- Firewalls and NAT devices slow things down, make networking more difficult and reduce innovation.

IPv6 Allocations

IPv6 Deployment

- IPv6 to the rescue?

- Vastly larger address space etc.

- Deployments are slow, but they have been ongoing for some time.
  - (My company completed the bulk of ours in 2003.)

- While there are challenges, there are many benefits.

- Criminals know about this too!

IPv6 & Abuse

- Abusive behaviour using IPv6 will increase as deployments increase.
- Likely the same kind of abuse as in v4, just with longer numbers.
- Large allocations and "privacy" concerns mean that devices/users may change addresses frequently.
- Helpdesk and Investigation staff need to be trained!

Other Abuse Highlights

- IPv4 Address Block transfers.

- Continued growth in Internet users.

- Increased sophistication of phishing scams.

- More vectors for abuse.

- Widespread belief that the Internet is totally safe.

What Can RIPE Do For You?

- Technical expertise.

- Documentation

- Policy development.

- Useful contacts.

- Friendly faces.

- No barrier to entry!
  - Join the mailing list.
  - Attend the meetings.

RIPE/AA-WG Contact Details

- RIPE Community website:
  - http://www.ripe.net/ripe/index.html
- Anti-Abuse WG website:
  - http://www.ripe.net/ripe/wg/anti-abuse/index.html
- Anti-Abuse WG Mailing List:
  - http://www.ripe.net/mailman/listinfo/anti-abuse-wg
  - anti-abuse-wg@ripe.net

Questions?