

Introduction to the RIPE NCC and the RIR System

Mihnea-Costin Grigore, RIPE NCC



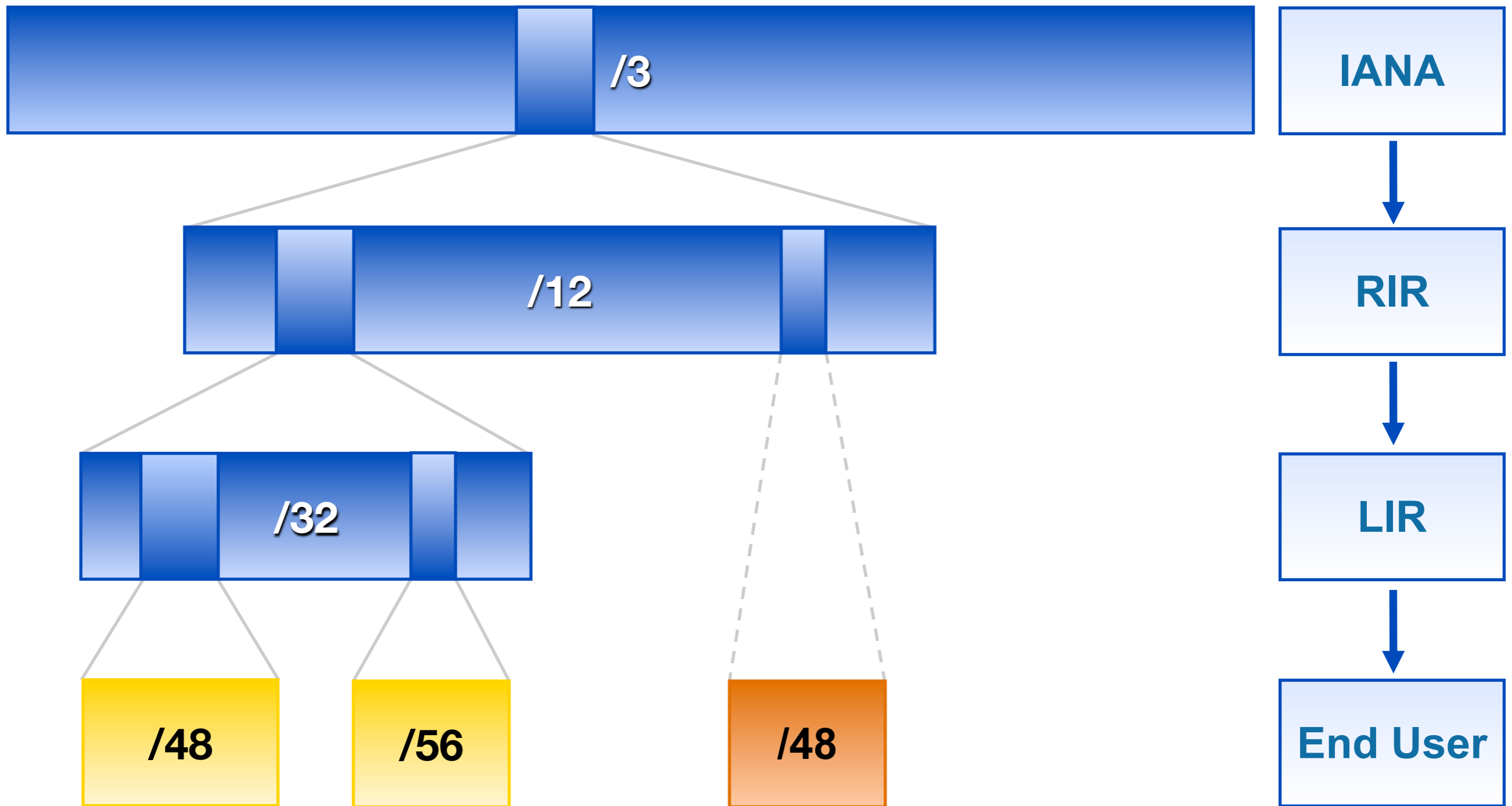
RIPE NCC

- One of the five Regional Internet Registries
- Support coordination of Internet operations
- Not-for-profit membership organisation
- Around 8000 active members
- Neutral, Impartial, Open, Transparent

The Five Regional Internet Registries



IP Address Distribution



Allocation



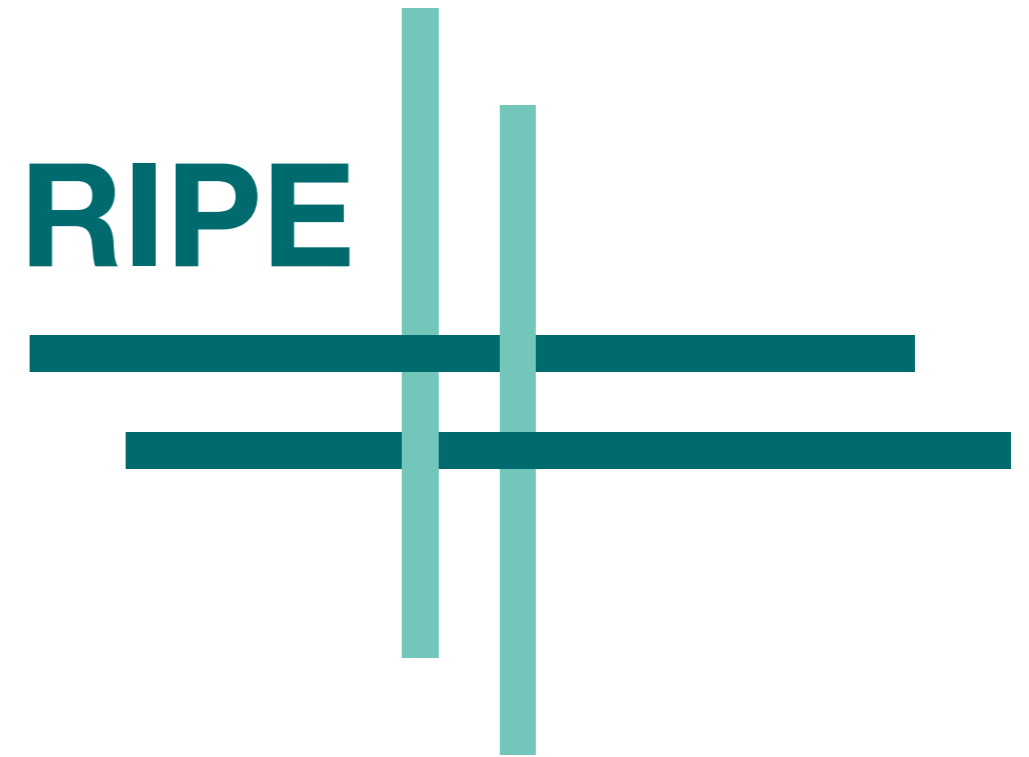
PA Assignment



PI Assignment

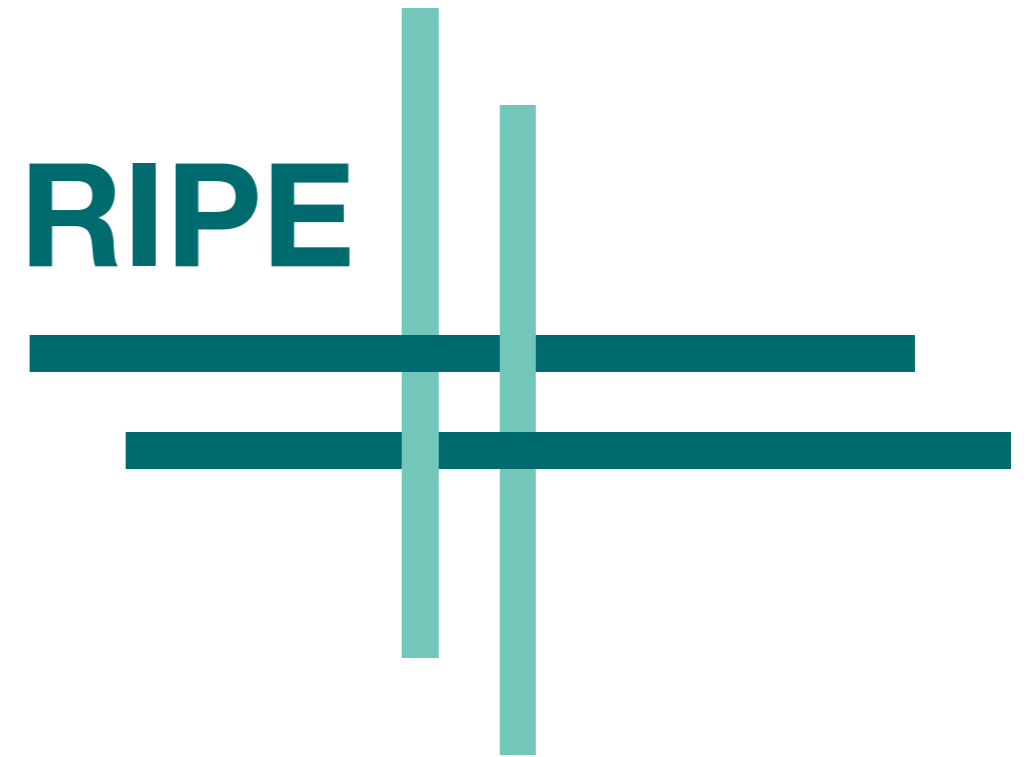
RIPE Community

- Policy forum
 - Not a legal entity
 - No official membership
 - Open to everyone
- No voting
 - Consensus decision making
- Work happens at meetings and on mailing lists:
 - Working Groups
 - Task forces



RIPE Meetings

- Twice a year
- Plenary discussions
 - Wide ranging topics
- Working Group meetings
 - More specific focus
- Policy discussions
- Exchange of views and information
- Interaction with other Internet stakeholders



RIPE Policy Development Process

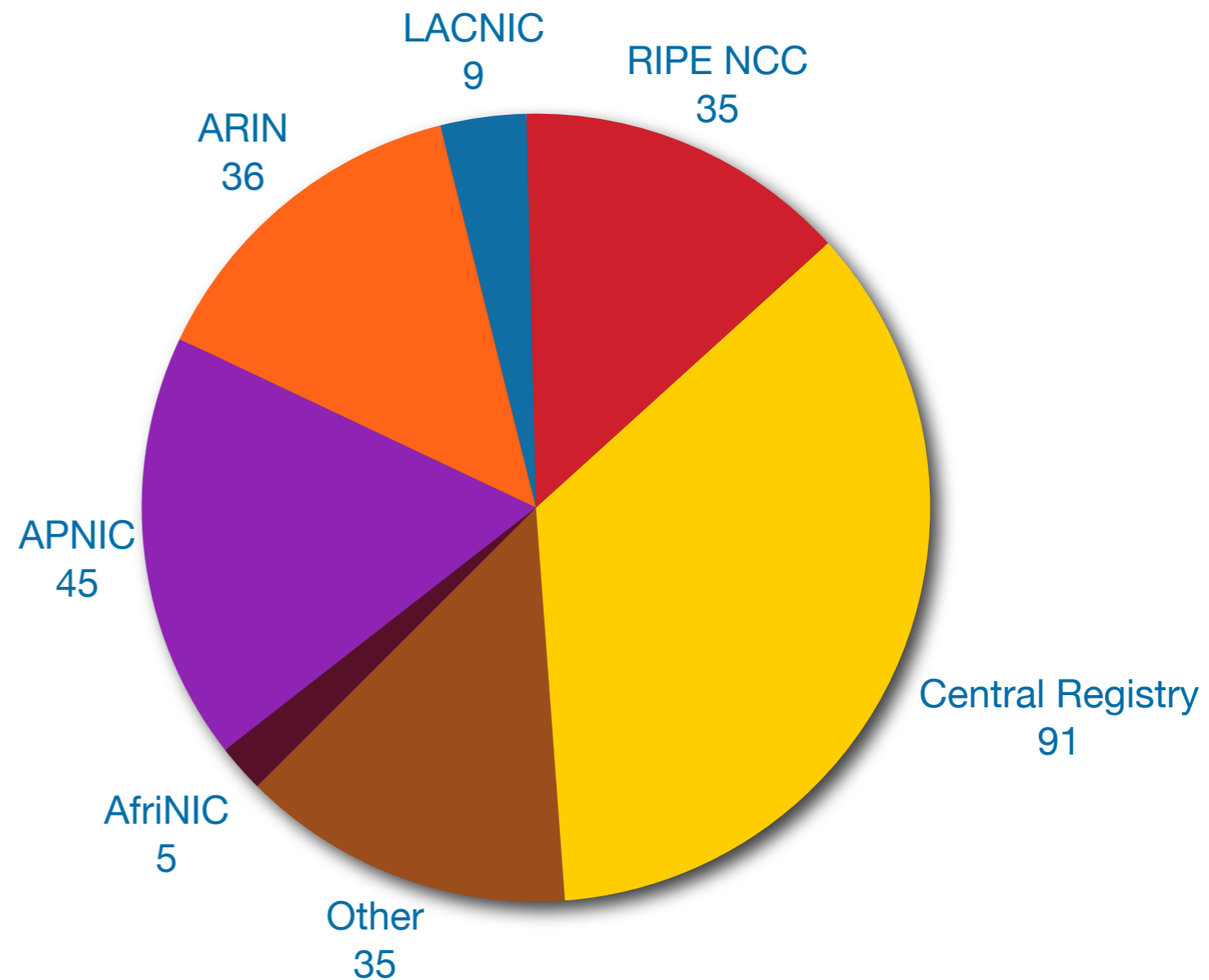
- Open
 - Anyone can participate
 - Policy meetings
 - Mailing lists
- Transparent
 - List discussions archived publicly
 - Meetings transcribed
- Developed bottom-up
 - By the community that use the IP addresses
 - “Self-regulation” model



RIPE

How IPv4 is Distributed

- IANA distributed final /8 blocks on 3 February 2011
- APNIC reached its final /8 on 15 April 2011
- “Final /8” policies limit access to IPv4 allocations



Reaching the Next Billion

- Around 1.9 billion Internet users now
 - Five times as many as there were in the year 2000
 - Around 29% of all people
- Mobile phones are becoming Internet devices
 - ...and need IP addresses!
- The Internet of Things
 - An IP address on every lightbulb?

What RIPE NCC Is Doing

- Raise awareness of the problem
 - Different roles for different sectors
 - Industry, government, civil society, technical community
- Ensure IPv6 is accessible to all
- Engage with ALL stakeholders

RIPE NCC Capacity Building

- Training for Local Internet Registries
 - Targeted at LIRs/RIPE NCC members
- IPv6 Roadshow
 - Targeted at technical staff operating government and large enterprise networks
 - Collaboration with industry and regional Network Operators Groups (e.g. MENOG)
 - Launched in Middle East, 2010
 - Plans for expanding to CIS region

ENOG

- Eurasia Network Operators' Group
- Regional forum to share knowledge and expertise on issues relevant to the Russian Federation, CIS and Eastern Europe
- Three events since June 2011
 - ENOG 3 held this week (22-23 May) in Odessa, Ukraine
- More information at www.enog.org

Working with the Public Sector

RIPE NCC Government
Roundtables

RIPE
community



Government

RIPE Cooperation Working
Group

RIPE NCC Roundtable Meetings

- Regular events since 2005
 - Held in Amsterdam and the Middle East (planning)
- Participants
 - 40+ Governments representatives from 18+ countries
- Topics covered
 - IPv6 deployment
 - IPv4 depletion
 - Internet governance
 - DNSSEC
 - Resource certification (RPKI)

RIPE Cooperation Working Group

- Formed in 2008
 - After work by the Enhanced Cooperation Task Force
- Focus on cooperation between private and public sectors
- Encouraging participation and input from stakeholders outside the traditional RIPE community

- One-stop shop for IPv6 information, launched in June 2009
- Audience includes business, government and technical communities
- Sections include:
 - How To Act Now
 - Community interviews
 - Statistics
 - RSS feed of IPv6-related news and developments
 - Links and information

IPv6 ACT NOW

RIPE Labs

- A platform and a tool for the community
- You can
 - Test and evaluate new tools and prototypes
 - Contribute new ideas and research results
 - Discover and discuss in forums and blogs



RIPE Labs

RIPE Labs and IPv6

- Update on IPv6 Address Distribution
- LIRs can Test IPv6 Reachability Using RIPE Atlas
- Measuring IPv6 at the Network and the Customer Level
- IPv6 RIPEness: How to Reach the Stars

Questions?

