

Introducing the RIPE NCC

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We are here to serve you

- Secretariat for RIPE Community
- Founded in 1992
 - Teenager on verge of adulthood
- Activities to support coordination of Internet operations
 - Service region Europe, Middle East, Parts of Central Asia

Guiding Principles

- Neutral
- Impartial
- Open
- Transparent

Activities

- Support for RIPE
 - Policy development Process
- Allocation of Internet Number Resources
- Operations of Root Nameserver
- Operations of RIPE Database
- ENUM Tier 0 Registry
- Training
- Outreach

Future and Strategy

- IPv4 depletion as Discontinuity
 - How will RIPE NCC be affected?
- Developing Strategies for the Future
 - Focusing on Usefulness for Members and Community
 - “Back to the Roots”
- Focus on
 - Strong Registry
 - Strong Community

Three Pillars

- Resource Lifecycle Management
 - Maintaining the Number Registry
- Reliable Source of Data
 - Develop, use and publish the wealth of data available
- Developing the Role of the RIPE NCC
 - Engage Stakeholders in Internet Governance
 - Prove Utility of RIPE NCC to Public Policy Makers

We are here to Listen & Learn

- 9th RIPE NCC Regional Meeting in ME since 2003
- Important to understand local issues
- Please talk to us, ask, propose, complain and praise (where appropriate 😊)
- We are planning to intensify regional presence
 - RIPE Meetings
 - Roundtables for governments & regulators
- The RIPE NCC is your organisation
 - Please tell us your needs...

Policy and Registration Services Update

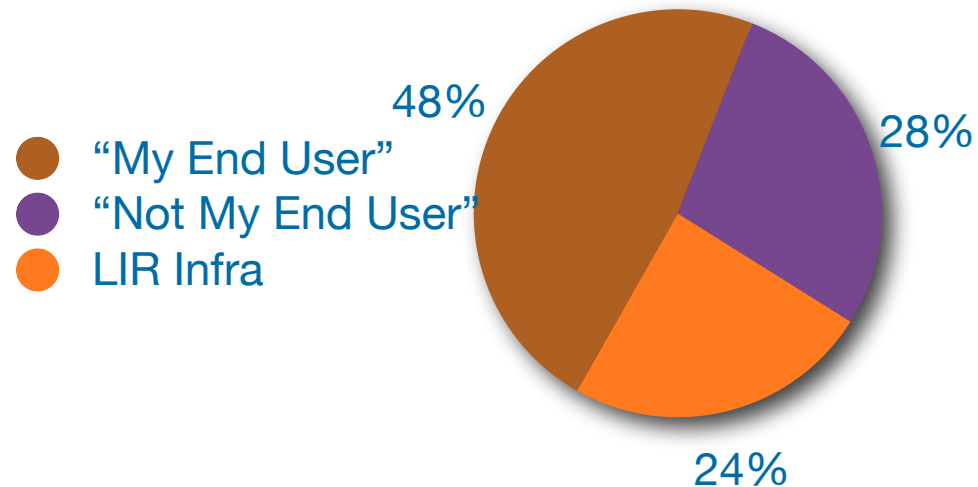


End User Contractual Relationship Requirements

- Phase 1
 - Set contract for all new independent resources (PI & AS)
 - Started 3 March 2009
 - 7,215 resources
 - 6,161 resources assigned to end users (3,260 IPv4 PI prefixes and 2,708 ASNs)
 - 98 PI prefixes and 910 ASNs LIR infrastructure

End User Contractual Relationship Requirements

- Phase 2 (ongoing)
 - End Users to sign contracts with LIR or RIPE NCC
 - May 2009 – November 2010
 - 26,940 resources involved
 - >24,000 resources with status set



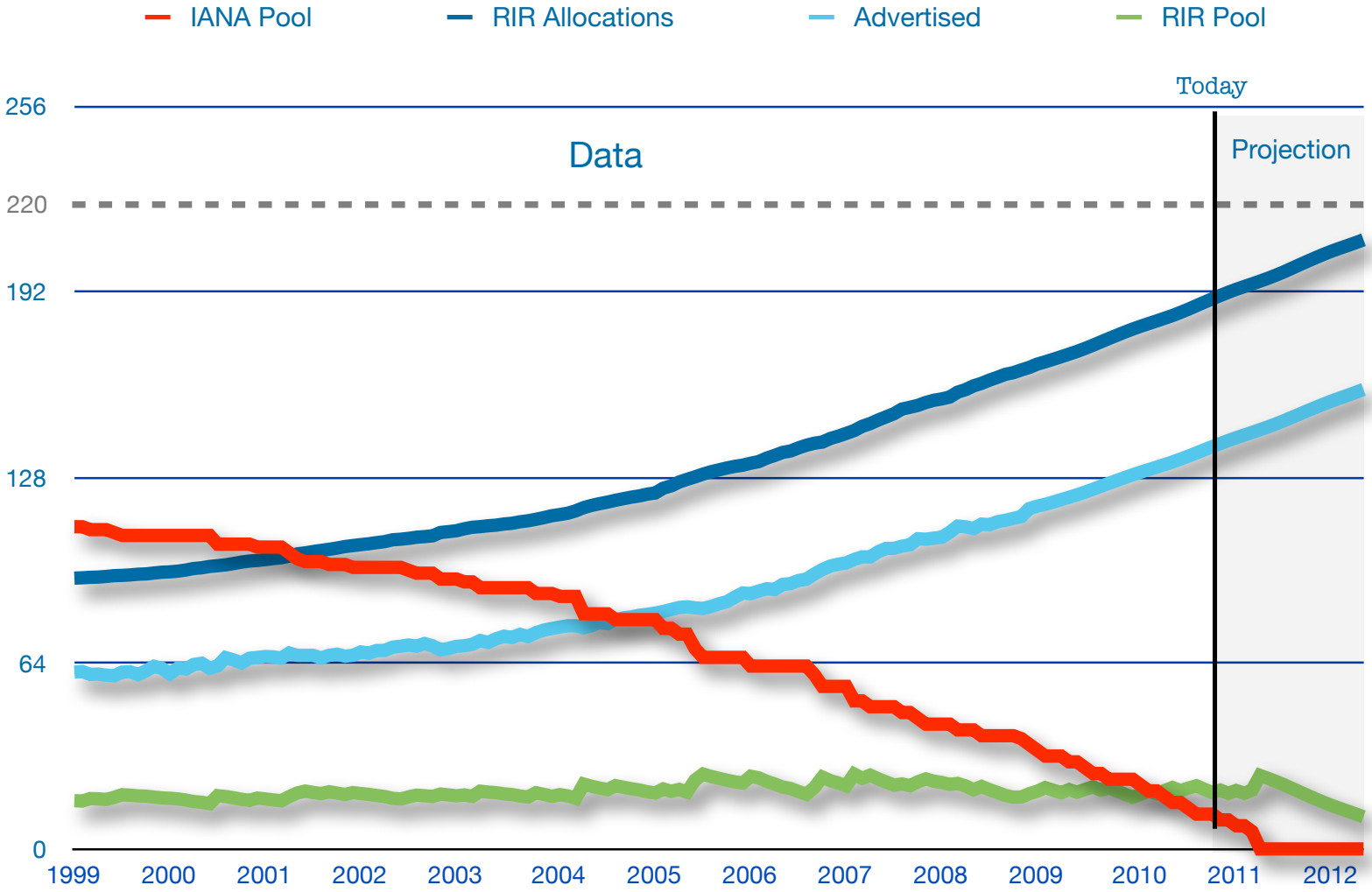
End User Contractual Relationship Requirements

- Phase 3
 - RIPE NCC contacting 'orphaned' End Users
 - Starting December 2010

Registration Quality

- Reclamation
 - Announced IP address space, “pending closure” LIRs
 - Since 2007, 847 non-paying LIRs contacted
 - 226 LIRs re-opened
 - 605 LIRs had Allocations returned to the RIPE NCC
(5,910,528 IP addresses)
- LIR Audit Activity
 - From 1996 until 2008 - 343 Audits
 - 2009 - 301 Audits
 - 2010 - 345 Audits (to date)

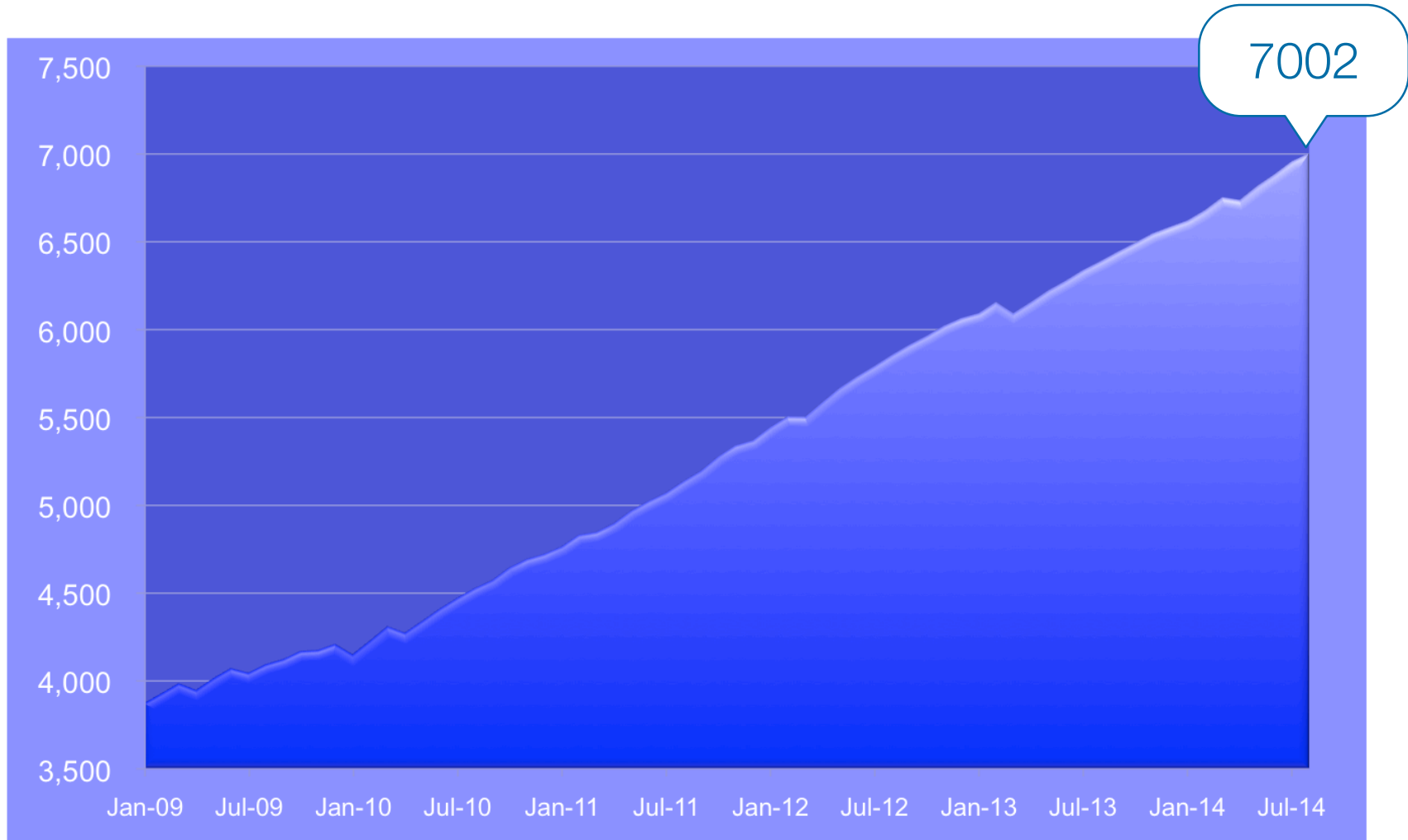
Runout Date



Membership & Charging Scheme Update



Membership Development



Draft Charging Scheme 2011

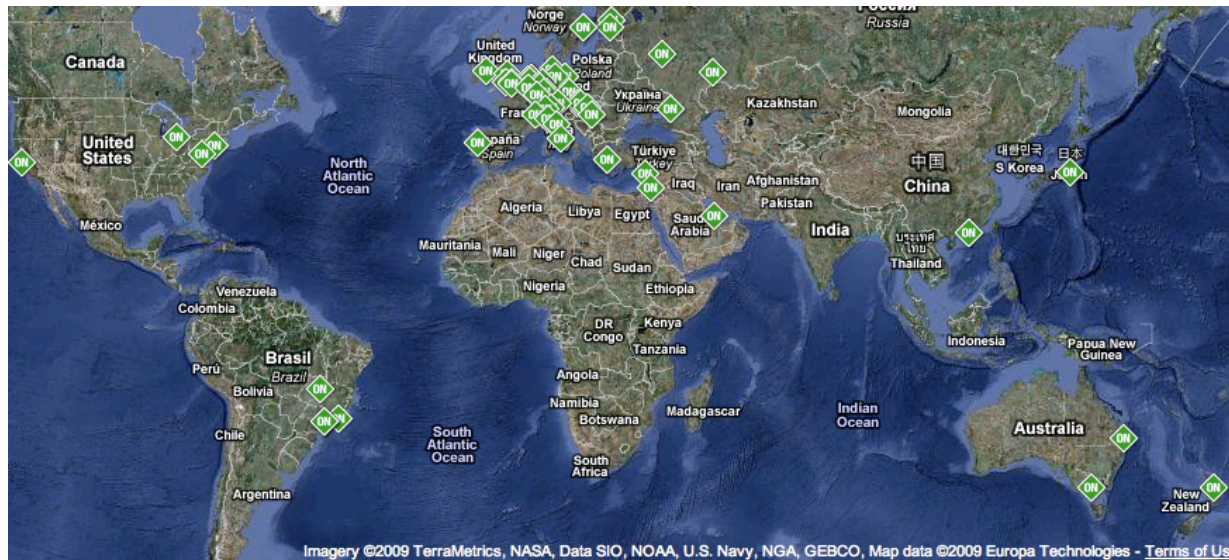
- No increase in fees
 - 5 Categories
 - EUR 50 per Independent Resource Assignment
- Independent Resource from single customer – € 50
- First IPv6 allocation – no score (“no fee”)
- Direct Assignment Users – Extra Small Fee
- All temporary and test Independent Resources are taken into account

Information Services



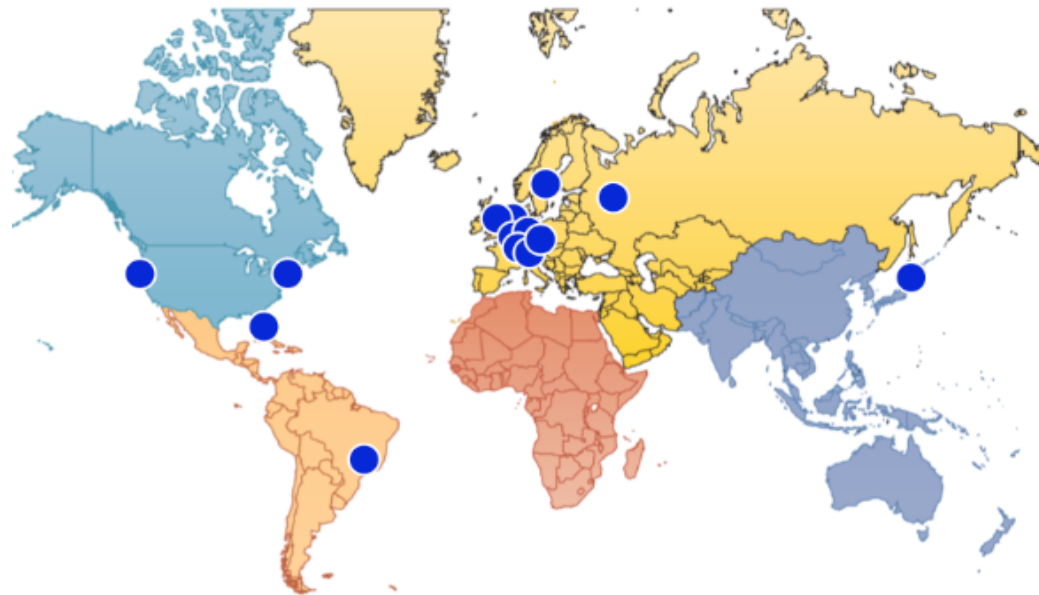
Measurement Networks

- Active Measurements
 - 80 Test Traffic Boxes
 - Located at commercial ISPs and research institutions
 - Full Mesh



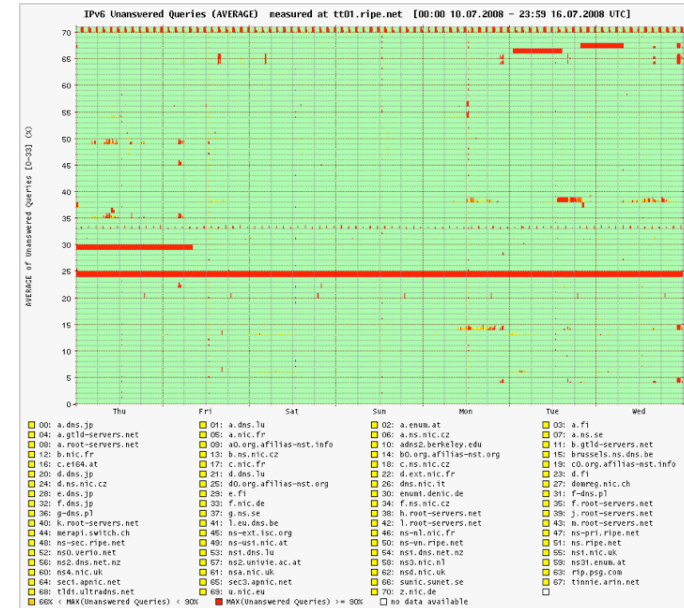
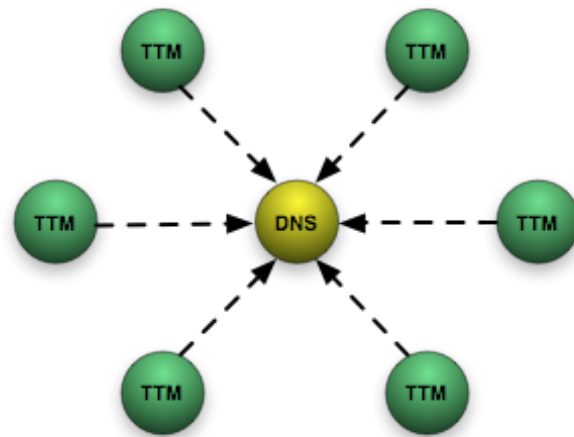
Measurement Networks

- Passive Measurements
 - 15 Remote Route Collectors
 - Located at major Internet Exchanges
 - BGP Routing Information



Information Services: DNSMON

- DNS Monitoring service
- Uses ~80 global probes
- Impartial performance report
- Troubleshooting and trend analysis



Information Services: NetSense

RIPE NCC NetSense

You Are Here: [Home](#) -> [NetSense](#)

Find out information about your AS or Prefix:

AS3333 - RIPE-NCC RIPE Network ...

Prefix	First Seen	Last Update
193.0.22.0/23	5 months ago	2 hours ago
193.0.18.0/23	1 year ago	7 hours ago
193.0.20.0/23	1 year ago	2 hours ago
193.0.12.0/23	1 year ago	7 hours ago
2001:610:240::/42	3 months ago	7 hours ago
193.0.0.0/21	1 year ago	7 hours ago

Visibility of 193.0.0.0/21

POWERED BY Google

DNS Lameness

Don't Filter | All Issues | Only Errors

Routing Consistency

Prefix	DNS Lameness	Status
193.0.22.0/23	No Lameness Detected	No Lameness Detected
193.0.0.0/21	Found 1 Errors	Lameness
193.0.18.0/23	No Lameness Detected	No Lameness Detected
193.0.12.0/23	No Lameness Detected	No Lameness Detected
2001:610:240::/42	No Data	Not Present
193.0.20.0/23	No Lameness Detected	No Lameness Detected

Find: Highlight all Match case

https://www.i1b.org/wiki/index.php?title=TeleconferenceSchedule

Extending Measurements: A Pilot

- TTM has limited distribution, so...
- ... more measuring nodes needed
- Goal: Reach each AS, each major city
- Will announce pilot at RIPE 61
- Article series on labs.ripe.net



Communications and External Relations Update





RIPE Labs

- Operators Tools, Ideas and Analysis

The screenshot shows the RIPE Labs website with a blue and yellow color scheme. At the top left is the RIPE NCC logo (RIPE NETWORK COORDINATION CENTRE). To the right is a search bar labeled 'Site Search' and a 'Search' button. Below the logo is a navigation bar with 'RIPE Labs' and links for 'Log In' and 'Register'. A secondary navigation bar includes 'Home', 'Users', 'Data Repository', 'RIPE Database', and 'About'. A breadcrumb trail reads 'You are here: Home'. The main content area features a 'RIPE Labs' banner with a lightbulb icon, the text 'Innovative Internet tools & ideas', and a 'Register!' button. To the right of the banner are three checkmarks with the text: 'Share experience', 'Showcase tools', and 'Present research'. Below the banner is a 'New contributions' section with an RSS icon. The first contribution is 'Active Measurements - Hosting a Probe' by Daniel Karrenberg, dated 27 September 2010 15:45, with 19 comments. The text below reads: 'Why YOU may want to host a small probe to help with large scale active Internet measurements.' and includes tags 'maps, measurements' and a 'Read more' button. To the right of the contributions is a 'tagcloud' with terms like 'api', 'apnic', 'arin', 'asns', 'dns', 'dnssec', 'database', 'netsense', 'ripenix', 'ripe', '60', 'ripe', 'db', 'ripe', 'meeting', 'ripe', 'ncc'. Further right is a 'Follow us on Twitter' section with a 'Subscribe to @mir_ripe_labs' button and a tweet: '#RIPELabs article published on CircleID: A Look at Nine Years of RIPE Database Objects: http://bit.ly/c4bhKQ 28 September 2010 10:28'. Below the tweet is a link: 'Interested in hosting a small probe to help with large scale active Internet measurements? Find out more on #RIPELabs: http://bit.ly/d1VPHi'.



What is RIPE Labs?

- It is a web site, but more importantly:
 - 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
- But:

Much more in Mirjam's talk...

Outreach Channels

- IPv6ActNow.org
- CircleID regular articles
- Analyst & journalist briefings
- Support for 3rd party events
- Government IPv6 day participation
 - Norway, October
 - EC, December
 - ...

Outreach Events

- Roundtable, Amsterdam, 22 Feb
- ITU IPv6 WG, Geneva, 15-16 Mar
- Law Enforcement, London, 17 Mar
- MENOG / Regional Mtg, Ryadh, 10-14 Apr
- WTDC, Hyderabad, 24 May – 4 Jun
- Regional Roundtable ME, tbd
- ITU IPv6 Group, 1-2 Sep
- IGF, Vilnius, 14-17 Sep

Visit us at the next meeting!

... and pick up your RIPE Atlas probe!

<http://ripe.net/meetings>



Questions?

