



# Internet Measurement and Analysis at the RIPE NCC

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RIPE NCC

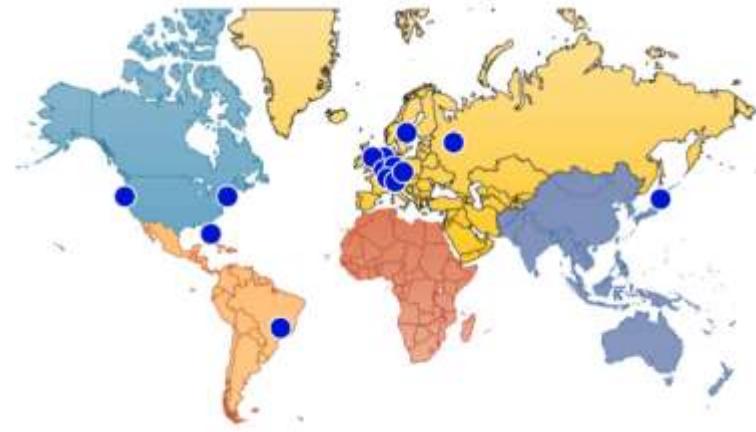


# Measurement & Analysis

- RIR activities: RIPE Database (whois), RIR stats
- Measurement
  - Test Traffic Measurement (TTM)
  - Routing Information Service (RIS)
  - And more (DNSMON, hostcount, ...)
- Analysis
  - One-off incident analysis (Youtube incident ... )
  - Netsense
  - Resource Explainer (REX)
- RIPE Labs

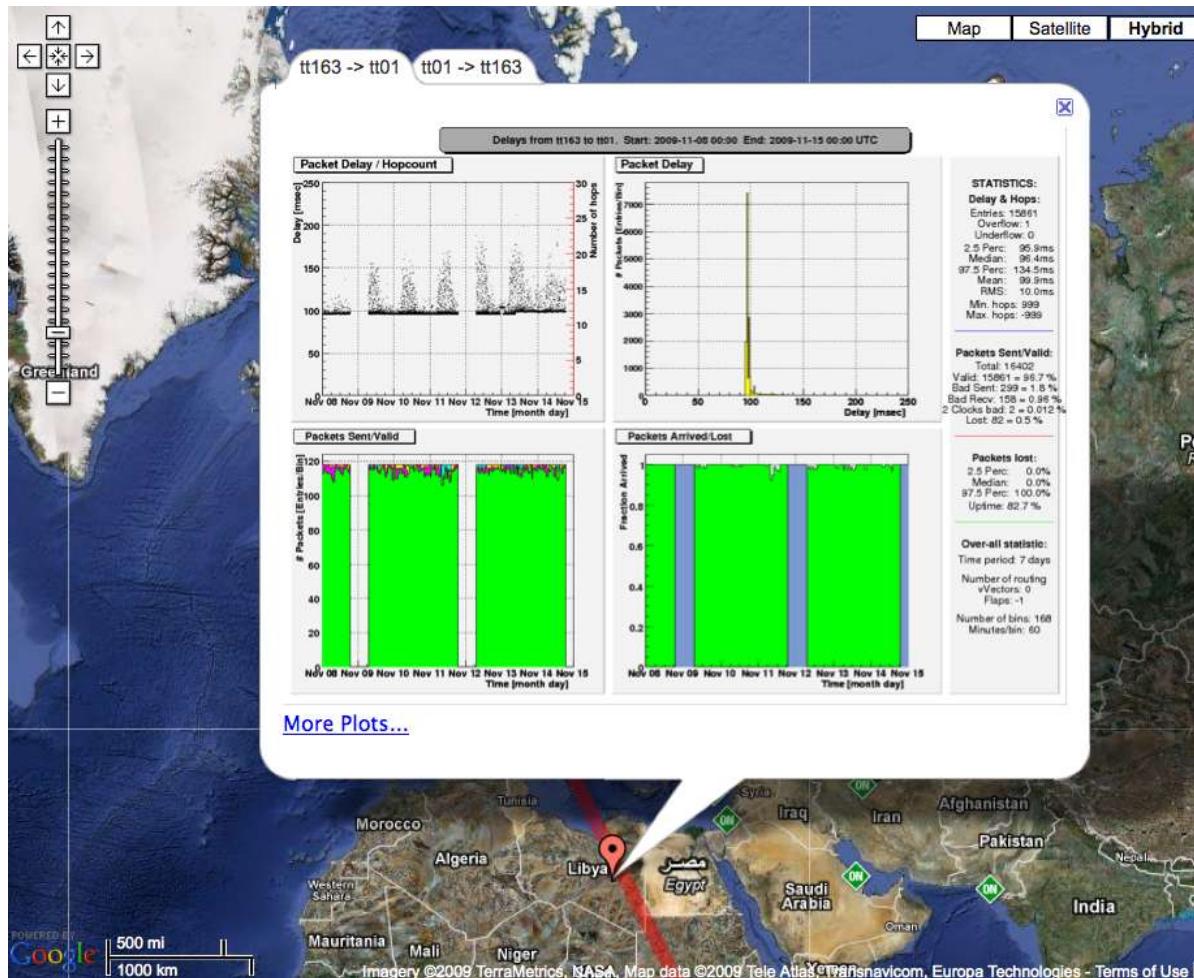
# Measurement

- Routing Information Service (RIS)
  - Collects BGP data
  - ~ 450 peers
  - 13 Internet Exchange Points
  - <http://www.ripe.net/ris>
- Test Traffic Measurements (TTM)
  - Measures delay and loss
  - Stores traceroute data
  - Full mesh ~80 nodes
  - <http://www.ripe.net/ttm>



# TTM Interactive map

- Live Demo



# NetSense

- User-friendly interface to measurements
- Combines TTM, RIS and RIPE DB data
- Up-to-date global and per-AS/prefix information





# Resource Explainer (REX)

- Community need for a service where:
  - Historic and current status of resources can be looked up
  - Information from many sources is combined and explained
- Reasons:
  - Growing use of recycled / transferred resources
  - Proliferation of resource abuse
  - Support resource management activities



# Resource Explainer (REX)

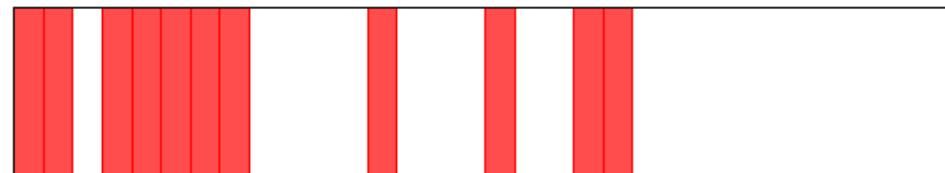
- With existing datasets (RIPE DB, RIS) augmented with external data (blacklists, geo) developed a new prototype service that:
  - Provides a comprehensive, interpreted information sheet about historic and current state of specific resource
  - Explain different aspects of a resource
  - Could be a one-stop-shop for all who seek information about resources

# Resource Explainer (REX)

- Live Demo



Relative location of /24s with observed network activity in 193.0.0.0/19  
in the month before 2009-09-30



193.0.0.0

193.0.16.0

193.0.31.255



# Resource Explainer plans

- IPv6 and ASN support
- Specialise towards different user groups
- Add more details to the existing report
- ... and ask you what would be useful
  - RIPE Labs

# RIPE Labs

- RIPE Labs is a new platform to gather feedback and to facilitate discussion
- You can
  - Test and evaluate new tools and prototypes
  - Contribute new ideas and research results
  - Discover and discuss in forums and blogs
  - Influence what happens



# RIPE Labs content

- Current RIPE Labs content includes
  - Resource Explainer
    - <http://labs.ripe.net/content/rex-resource-explainer>
  - Netsense
    - <http://labs.ripe.net/content/ripe-ncc-netsense>
  - (Shortly): IPv6 measurement overview
  - ... and much more
- See it all on <http://labs.ripe.net> !

# Questions?

