



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Applications of Internet Data

safe
Is our data ~~good~~ enough?

The Trend to More Data



- RIPEstat usage grew by 1600% (2011 - 2016)
- <https://stat.ripe.net>

The screenshot displays the RIPE NCC website interface. At the top, the RIPE NCC logo and name are visible, along with a search bar for IP addresses or ASNs. The main navigation menu includes 'Manage IPs and ASNs', 'Analyse', 'Participate', 'Get Support', 'Publications', and 'About Us'. The 'Analyse' section is currently active, leading to the 'Statistics > RIPEstat' page. A breadcrumb trail shows the path: Home > Analyse > Statistics > RIPEstat. On the left sidebar, there are links for 'RIPEstat Home', 'About RIPEstat', 'Documentation', and 'Use Cases'. Below these, a box displays the user's IP address: 155.93.131.166. The main content area features a 'Search RIPEstat' section with a search input field and a 'Search' button. Below the search field, it shows 'Your network: AS37680, 155.93.128.0/20' and provides an example: 'e.g.: IPv4 prefix/range, IPv6, ASN'. A large banner for 'Routing visualised! BGPlay.' is prominently displayed, featuring a network diagram and a bar chart. At the bottom left, there is a section titled 'On RIPE Labs' with the text 'Processing RIPE Atlas and RIPEstat Data with Hadoop' and the date 'Nov 19, 2015'.

Last week...



- ...I went to the IPv6 Day in Tel Aviv
- What is the IPv6 deployment in Israel?



Measurement Types

- Passive Measurements

- Registry data
- Routing Information System (RIS)

15%

13%

- Active Measurements

- APNIC Google ad measurements
- Google IPv6
- Cisco IPv6
- Maxmind IPv6 geolocation
- Alexa

0.8%

0.59%

17.24%

3.6%

Overview of Internet Data



- Three basic layers of Internet Data
 - Registry data
 - Routing data
 - Flow data

Registry Data



- Whois
- Maintained by the RIRs



- Public and private part of registry
- RIPE NCC: 14000+ members

Registry Data



- Application of registry data

Email-Contact

abuse@ripe.net

Resource information

Information for resource holders

Showing results for 193.0.18.0-193.0.21.255 as of 2016-09-21 05:46:00 UTC

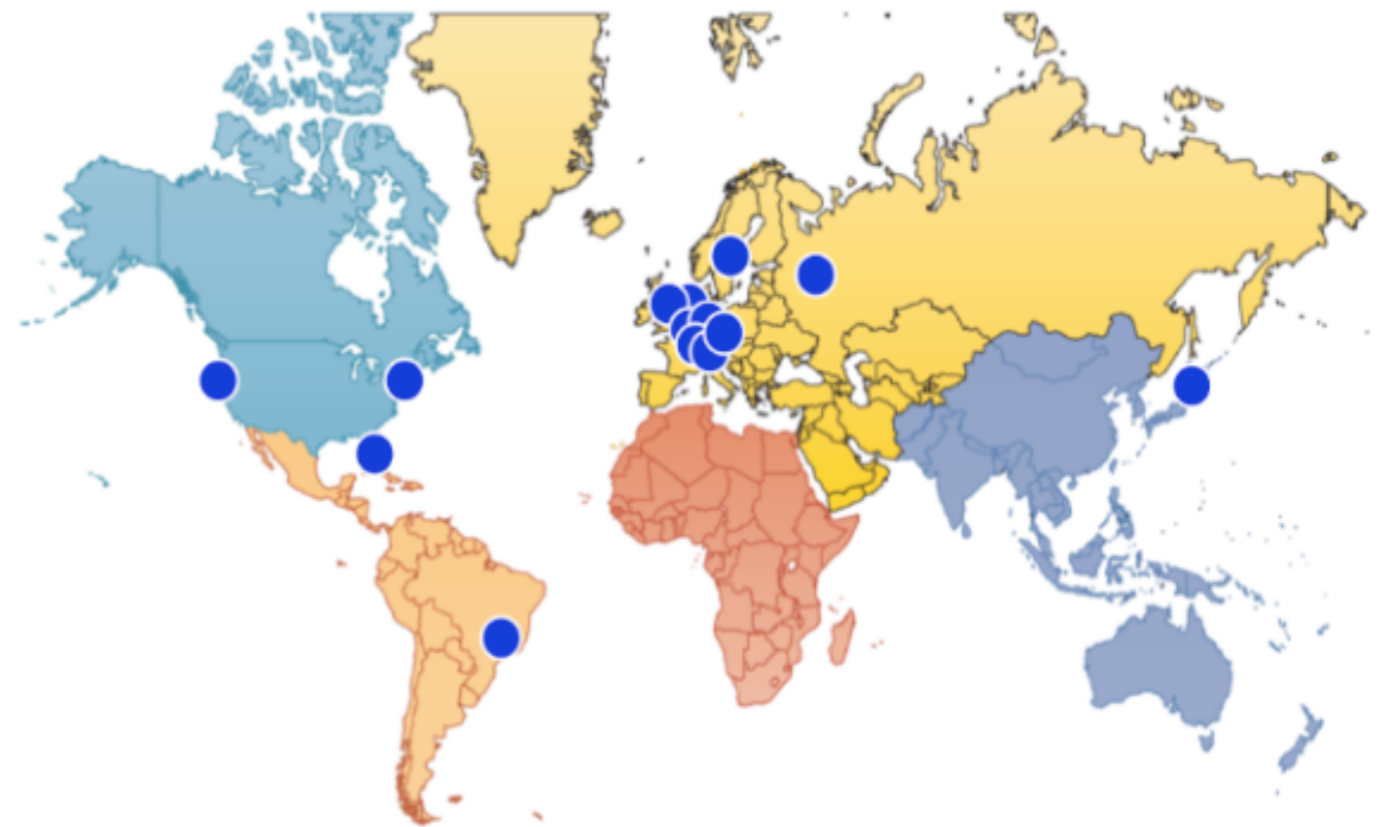
<https://stat.ripe.net/widget/abuse-contact-finder>

Routing Data



- RIS

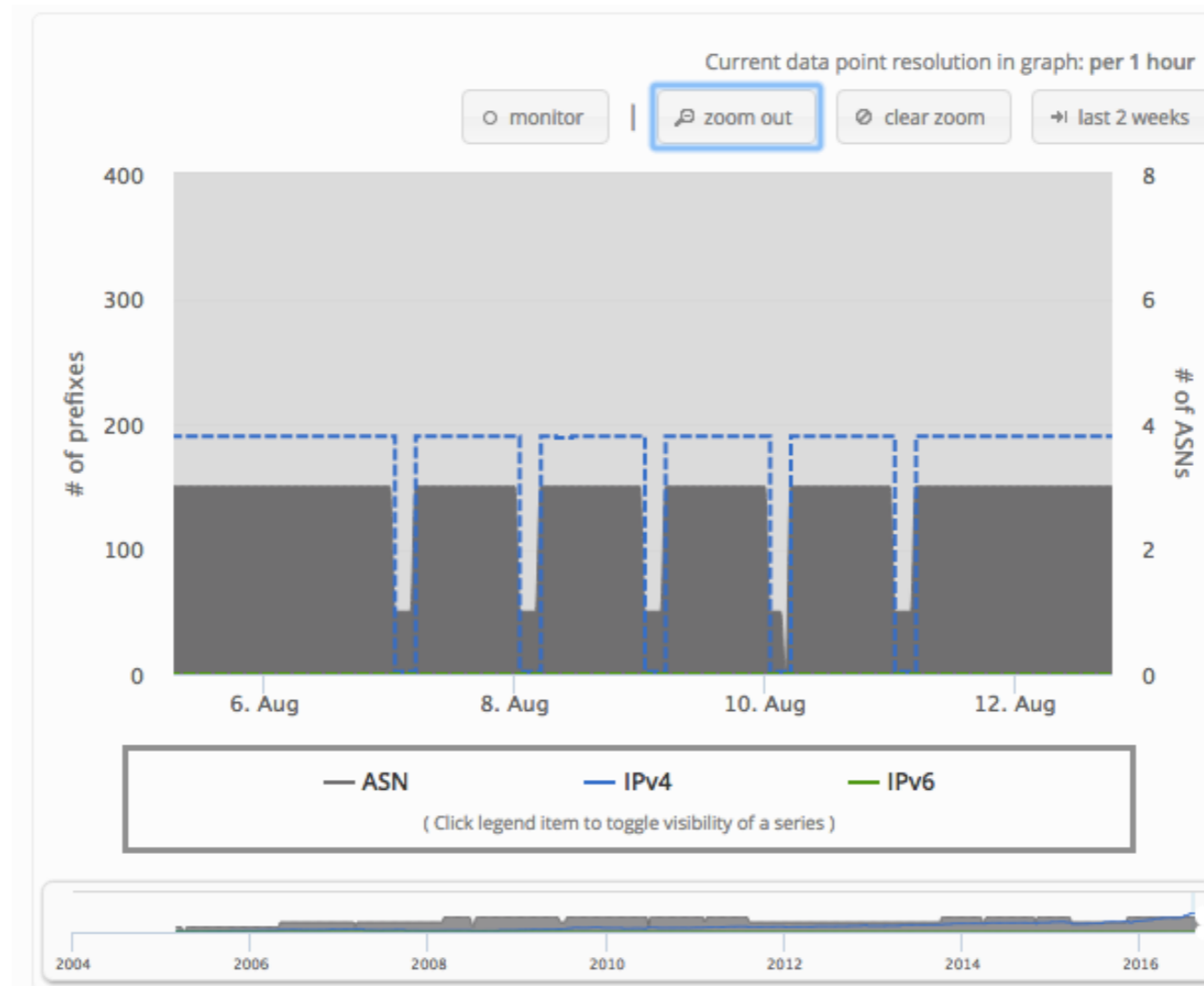
- The RIPE NCC has been collecting BGP information since 1999
- 18 collectors
- 160+ full-feed peers
- <http://ris.ripe.net>



Routing Data



- Application of RIS data



<https://stat.ripe.net/SY#tabId=routing>

Flow Data

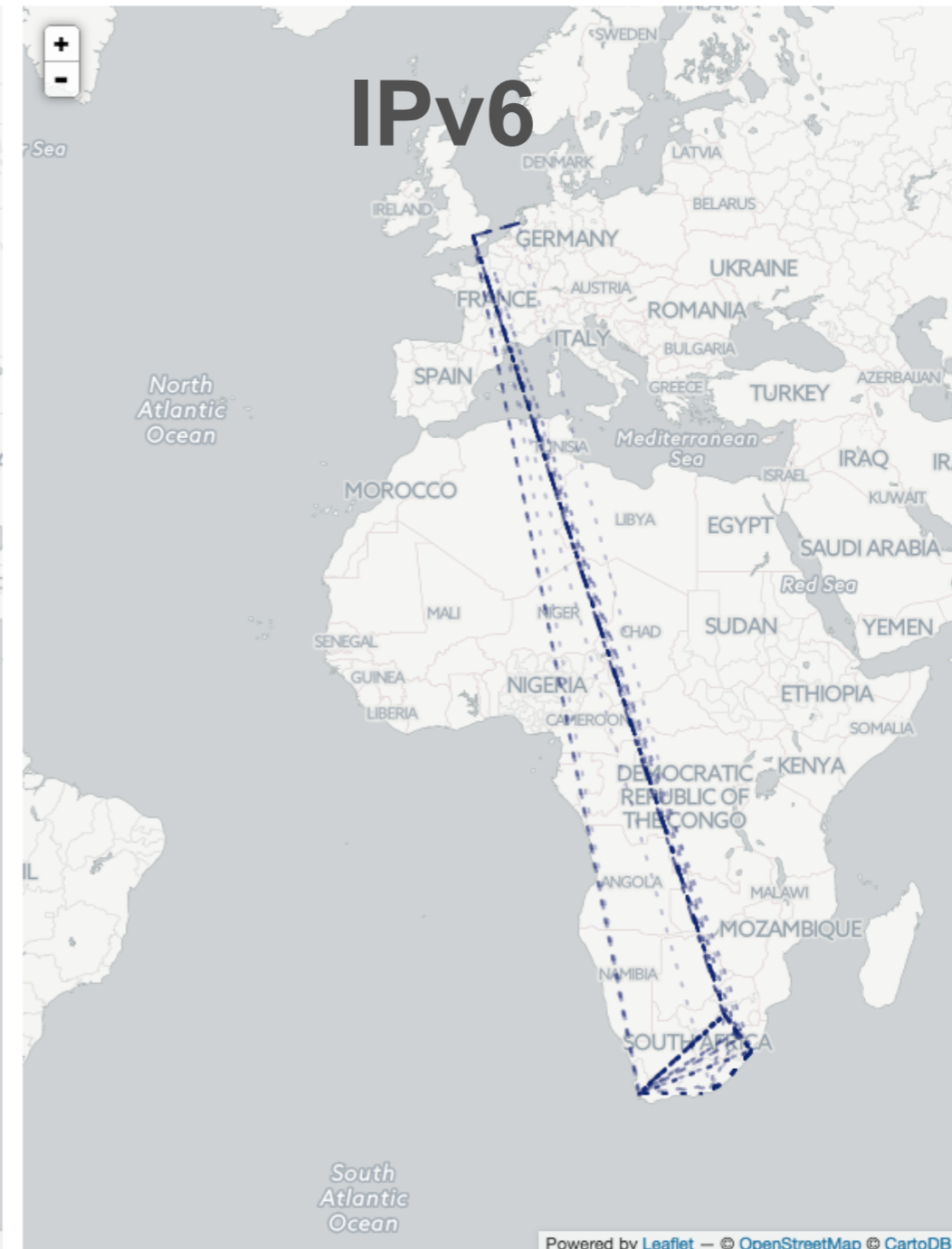
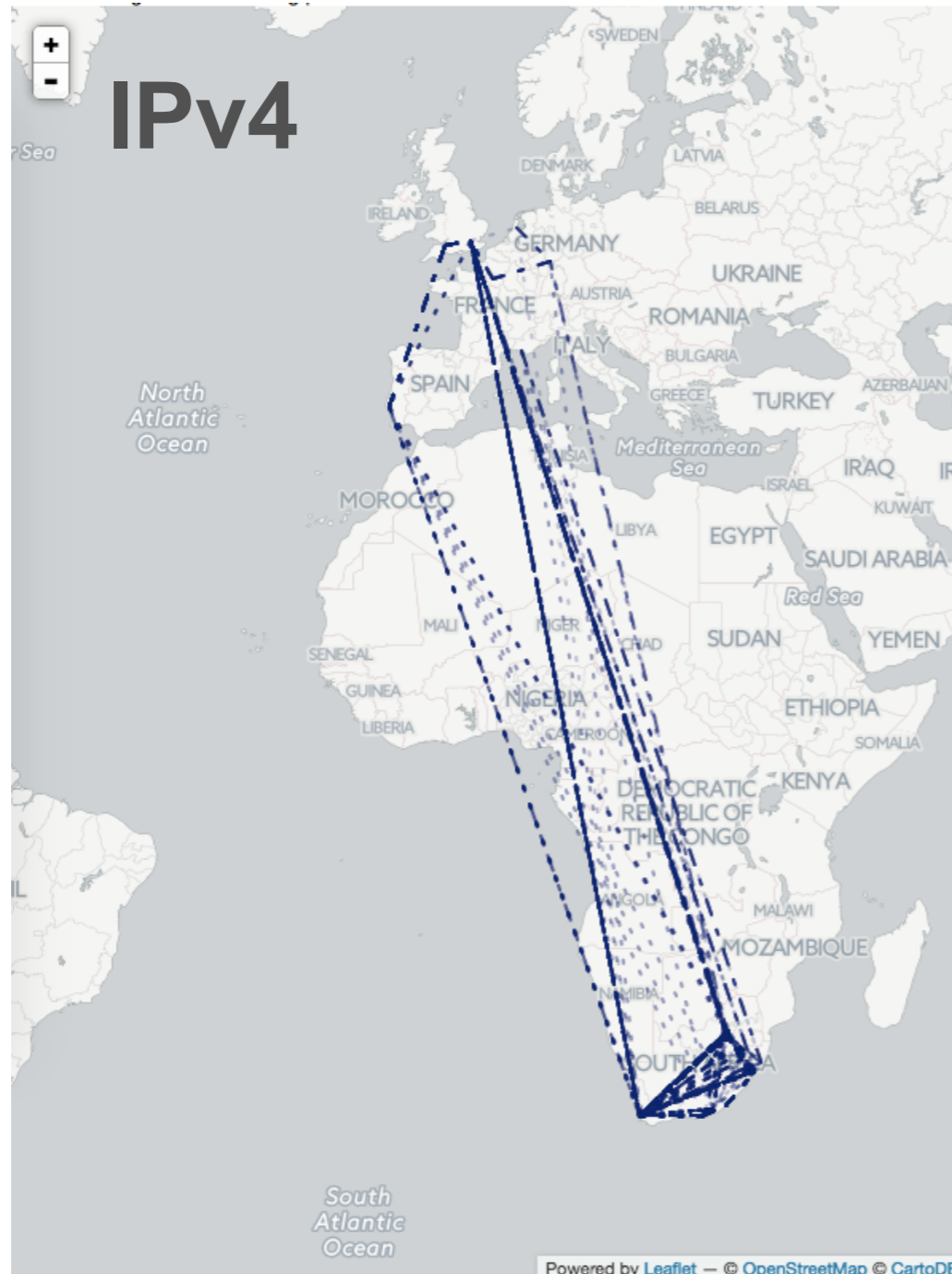


- RIPE Atlas
- Largest network for Internet measurements
- 9000+ probes
- 50000+ networks on the Internet (measured with RIS)
- Coverage: ~ 6% of all IPv4 networks

Flow Data



- Application of Atlas data





Díscussión ~~Questions~~



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