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RIPEstat Use Cases

Vesna Manojlovic Measurements Community Building

MAT-WG, RIPE 68, May 2014, Warsaw



RIPE 68, May 2014, Warsaw

Introduction : <u>https://stat.ripe.net</u>

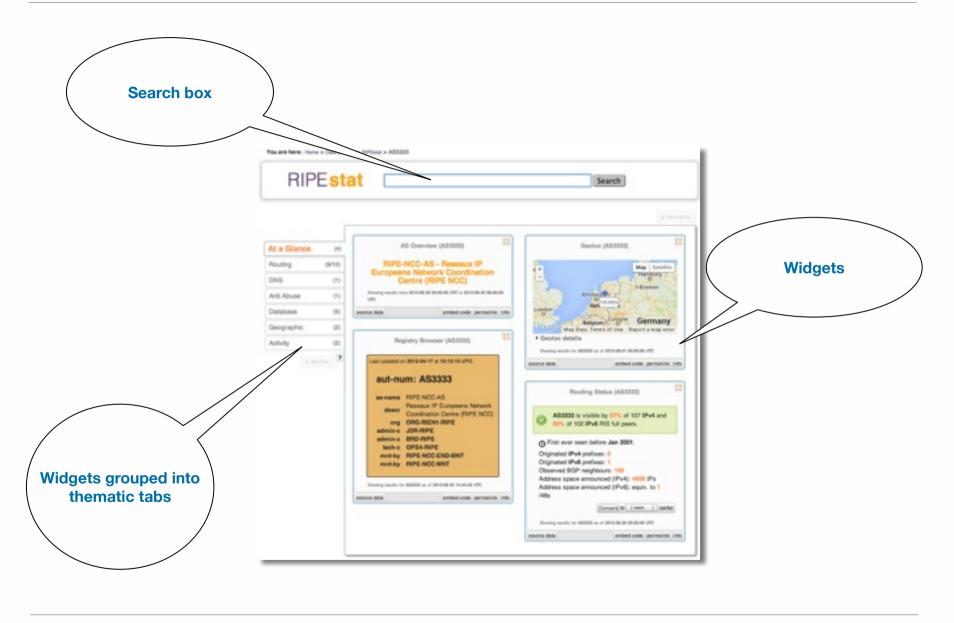
- RIPEstat is a "one-stop shop" for information about Internet number resources
 - From the RIPE NCC: registration data and RIPE Database, routing (RIS), reverse DNS, RIPE Atlas measurements
 - External sources: RIRs, routing registries (IRR), geolocation, blacklists, M-Lab network activity
- Search by: IPv4, IPv6 address/prefix; AS Number; hostname; country; keywords (new)

1	9
Your network: AS3333, 193.0.20.0/23	e.g.: IPv4 prefix/range, IPv6, ASN



Web Interface: Query Results Page

RIPEstat | 3



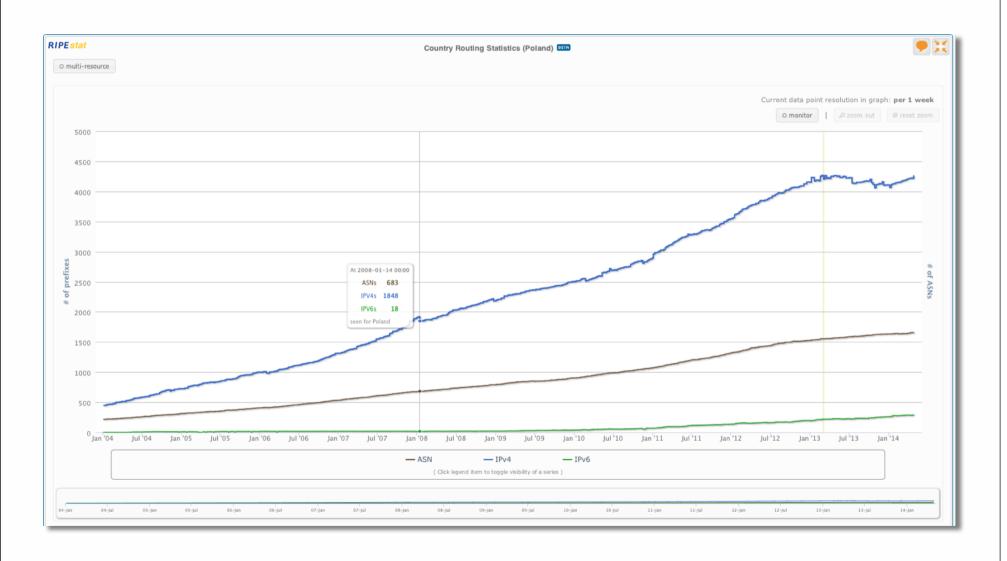


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Country View: Poland

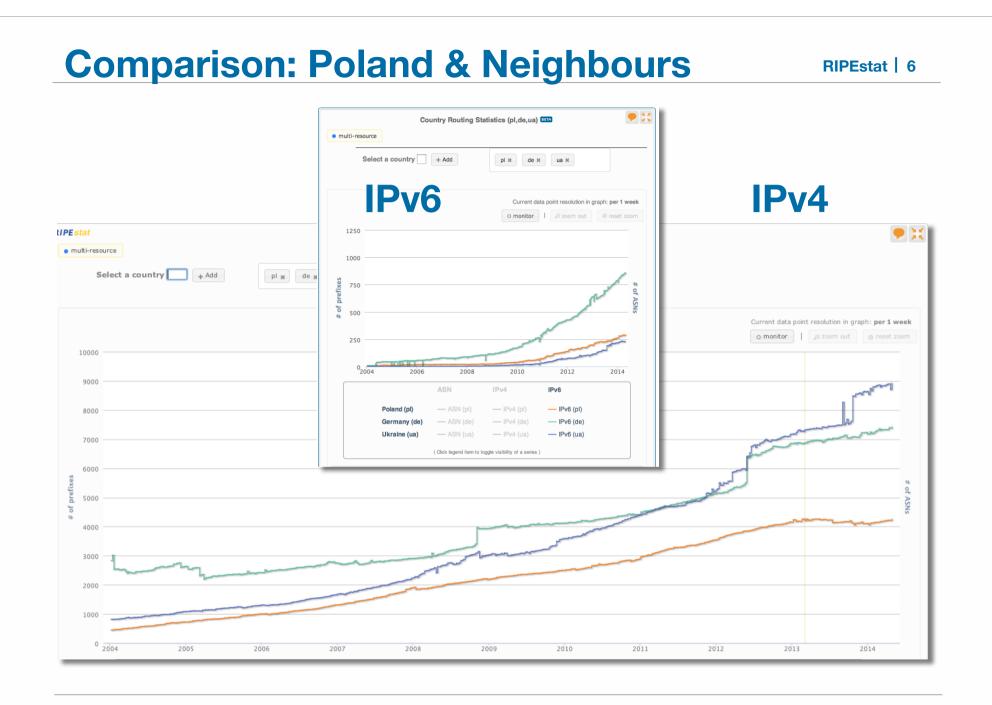


Polish Historical Routing Statistics



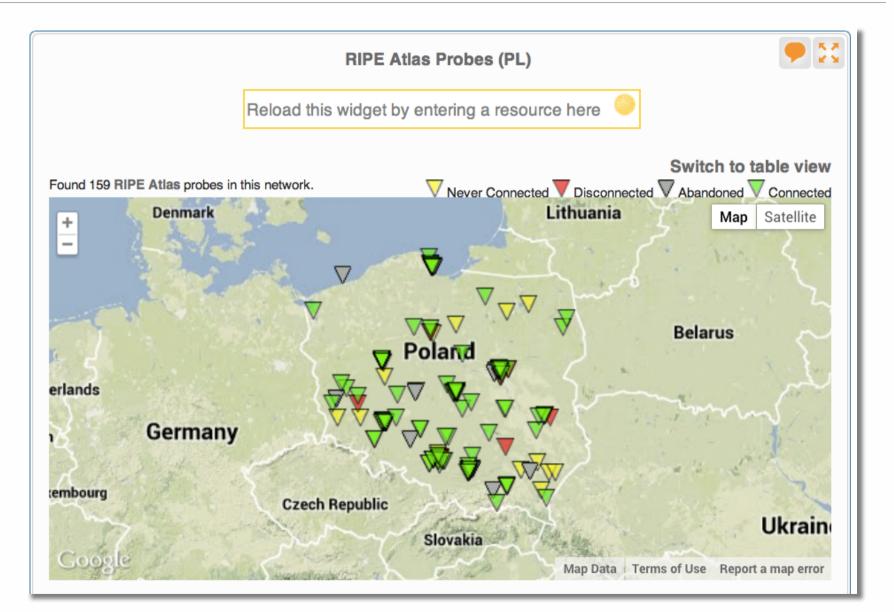


RIPEstat 5

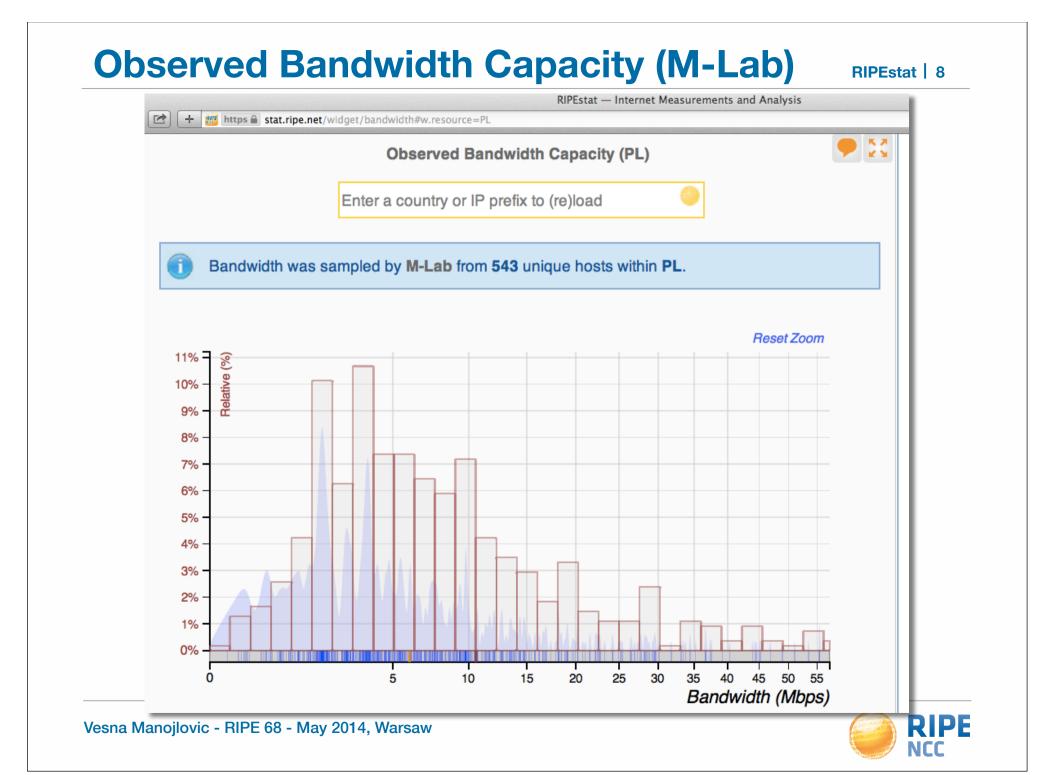




RIPE Atlas Probes in Poland







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Use Cases



Assisted Registry Checks

- RIPEstat is used extensively for Assisted Registry Checks by LIRs
- Registration Services of RIPE NCC are proactively identifying routing and reverse DNS inconsistencies
- <u>https://labs.ripe.net/Members/matt_parker/</u> <u>assisted-registry-check-first-results</u>



Researching BGP Leaks in Indonesia

- In April 2014, Indosat (AS4761) announced prefixes which were not allocated to them
- Many ASNs were affected and temporarily "disappeared"



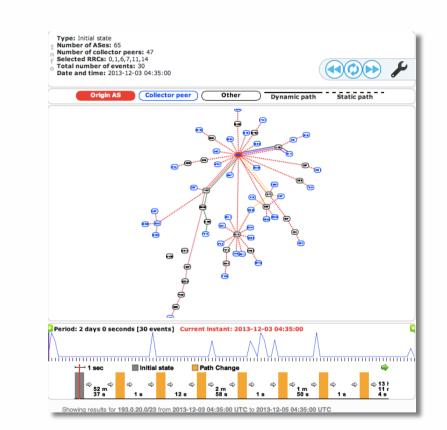
<u>https://labs.ripe.net/Members/wilhelm/bgp-leaks-in-indonesia</u>

RIPE

Lets BGPlay!

• Indonesian incident visible in BGPlay

 The most famous incident: YouTube hijacked by Pakistan Telecom: <u>http://www.youtube.com/watch?</u> v=lzLPKuAOe50



• BGPlay is back as part of RIPEstat



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Multiple Widget Comparison



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 <u>https://labs.ripe.net/Members/suzanne_taylor_muzzin/</u> <u>ripestats-multiple-widget-and-resource-comparison</u>



Looking up RIPE Atlas Activity

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Plans for the Future and Feedback

- Improve back-end stability and performance to enable resilience of current services and scale for future growth
- Increase data quality and consistency
 - Plans to renew the RIS collection process
 - Increase freshness of collected routing data ("live")
- Tell us your feature requests:
 - http://roadmap.ripe.net/ripe-stat/
 - stat@ripe.net
 - Twitter: @RIPE_NCC / #ripestat

Questions?

https://stat.ripe.net

