RIPE NCC Services

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RIPE NCC
External Relations

Plan of discussion

- RIPE NCC Regional Events

- Cooperation with Regional Communication Commonwealth

- RIPE Atlas

- RIPE Policy Development Procedure

- RIPE Academic Cooperation Initiative

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RIPE NCC Regional Events

- IPv6 Day in Saint-Petersburg - 6 June 2014

    - 100+ participants

    - Annual event for promoting IPv6 agenda and giving updates on the matter

    - Keynote by Silvia Hagen - top Swiss IPv6 expert, Head of Swiss IPv6 Council

    - Discussion about IANA functions transition

    - all content is available here - http://www.msk-ix.ru/events/forumspbix2014/agenda.html

- First RIPE NCC Regional Meeting in Almaty - 9 June 2014

  - 100+ participants

  - meeting our members and the wider Internet community from Kazakhstan and the surrounding region

  - Agenda included - IPv6, Measurements and RIPE Atlas, IXP, Root Servers, Local ISPs development

  - all content is available here - https://meetings.ripe.net/almaty2014/presentation-upload/show.php

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RIPE NCC Regional Events

- ENOG 8 in Baku - 9 September 2014
  - agenda will include:
    - Network Operations and Security
    - IPv6
    - DNSSEC
    - IXP
    - Internet Governance
    - propose a talk - http://www.enog.org/meetings/enog-8/cfp/
  - you are welcome to join the meeting
    http://www.enog.org/meetings/enog-8

- Upcoming Trainings

    - IPv6 Training Course - 20-22 August, Saint-Petersburg, Russia

    - LIR Training course - 10 September, Baku, Azerbaijan

    - RIPE Database Training Course - 11 September, Baku, Azerbaijan

- Upcoming Webinars

    - Resource Certification (RPKI) - 19 August

    - Webinar for new LIRs - 27 August

- Register here - https://lirportal.ripe.net/training/courses

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- RIPE NCC is becoming an associate member of RCC

- We will be part of newly established IPv6 Working Group

- Our goals here

  - facilitate the IPv6 adoption

  - strengthen dialogue on Internet Governance with the RCC region and regional Administrations

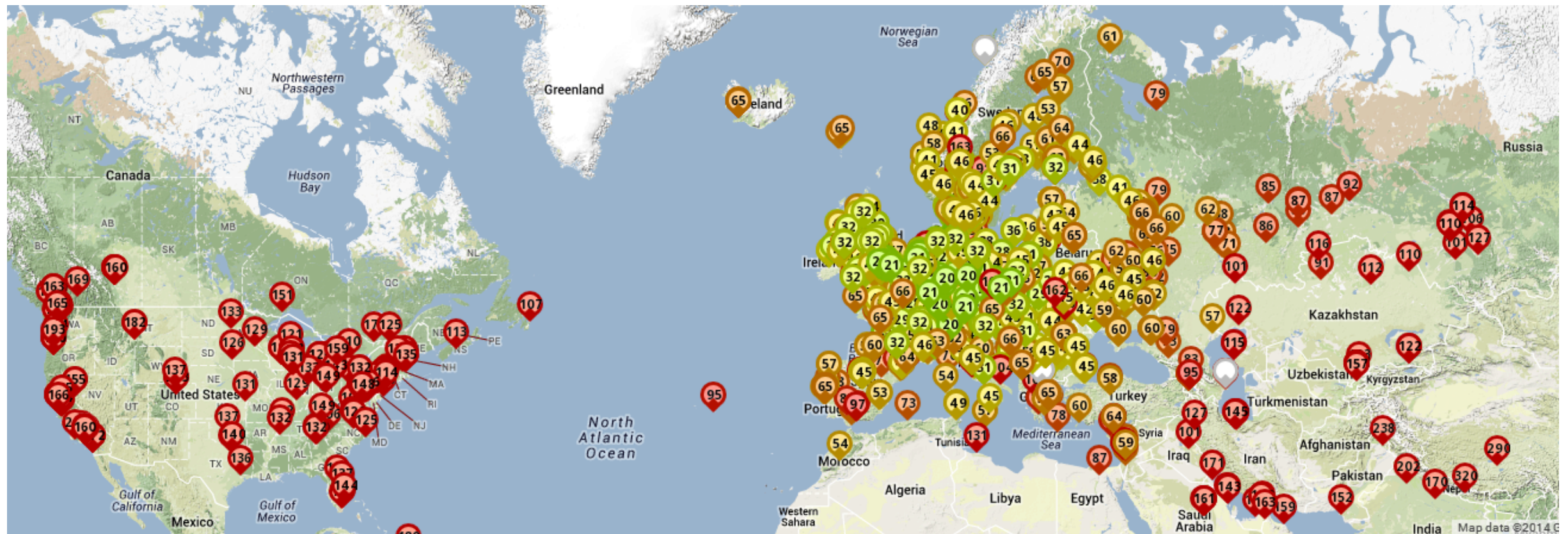 - provide technical expertise to the initiatives related to the Internet
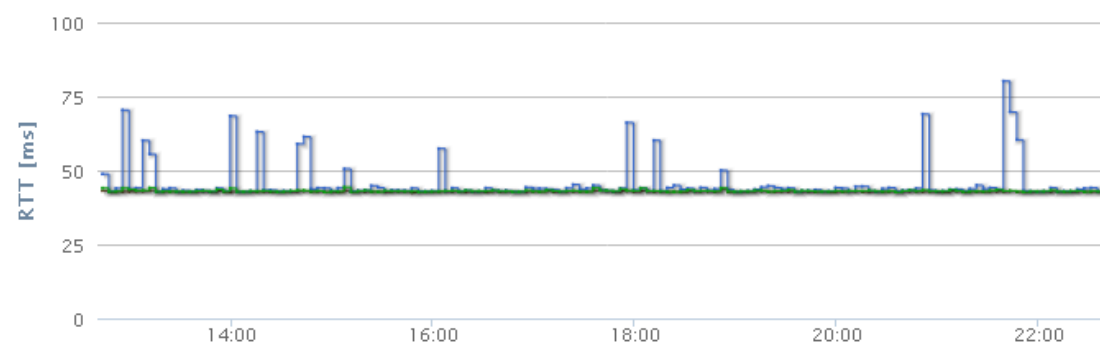
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RIPE Atlas

- A global network of probes that measure connectivity and reachability of Internet resources
  - Monitoring critical internet infrastructure like a root DNS servers
  - Possibility to make measurements form anywhere – any country, any network
- 6 401 probe is hosted around the world
  - but only <u>two</u> probes in Georgia! Both Connected in late July 2014
- 9 603 measurements are being run at the moment
- 2 038 results per second

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What can you do with RIPE Atlas?

- Have a look at your resources from outside

  - you can watch how your network is seen from any other place

- Run customized measurements

  - ping, traceroute, DNS measurements, SSL check, HTTP Check

  - Your choose type, target, frequency, number of probes and region!

- Can be integrated in your monitoring tool via API
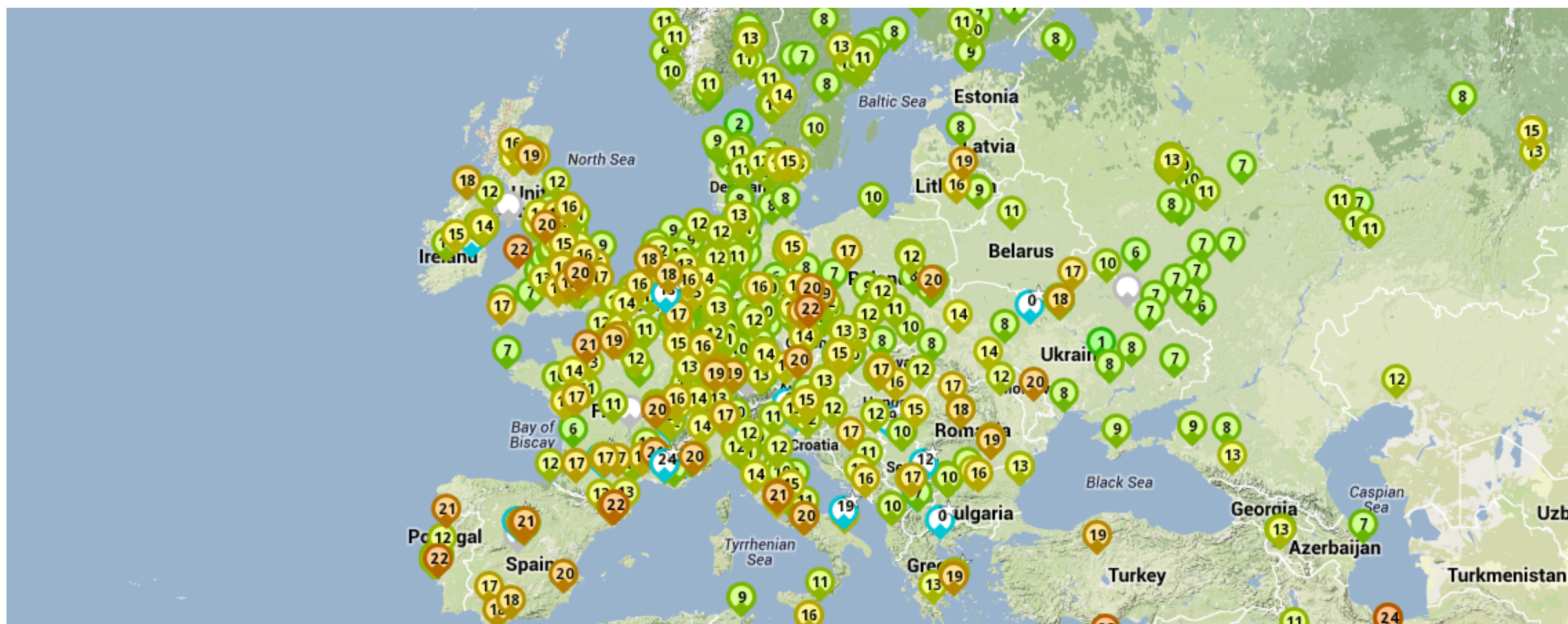
- Trusted source of data

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Ping

	Minimum	Average	Maximum	95th percentile
— RTT Min	42.492ms	42.88ms	43.796ms	43.119ms
— RTT Med	42.658ms	43.06ms	44.327ms	43.929ms
— RTT Max	42.825ms	45.57ms	80.177ms	61.396ms

Legend: <10 <20 <30 <40 <50 <60 <70 <80 <90 100+ Unreachable
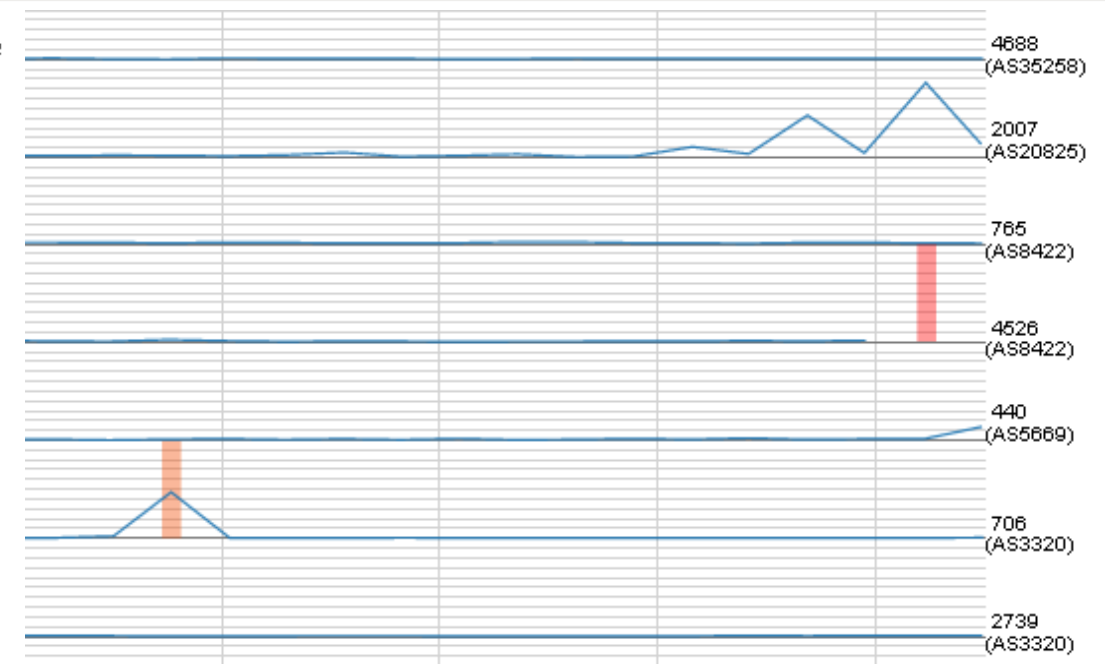
Key (number of hops): <4 <8 <12 <16 <20 <24 <28 29+ Partial results Missing data

Probe	ASN (v4)	ASN (v6)			Time	RTT	Hops
2503	174		🇺🇸	⏻	2013-01-27 13:47	193.694	15
2504	198420		🇨🇿	⏻	2013-01-27 13:47	56.400	18
2506	31334	31334	🇩🇪	✔	2013-01-27 13:46	61.851	10
2510	28773		🇺🇦	✔	2013-01-27 13:46	74.473	8
2511	12322	12322	🇫🇷	✔	2013-01-27 13:48	92.323	11
2515	6830		🇨🇿	✔	2013-01-27 13:46	74.866	11
2518	2200	2200	🇫🇷	✔	2013-01-27 13:48	45.041	20

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Response time
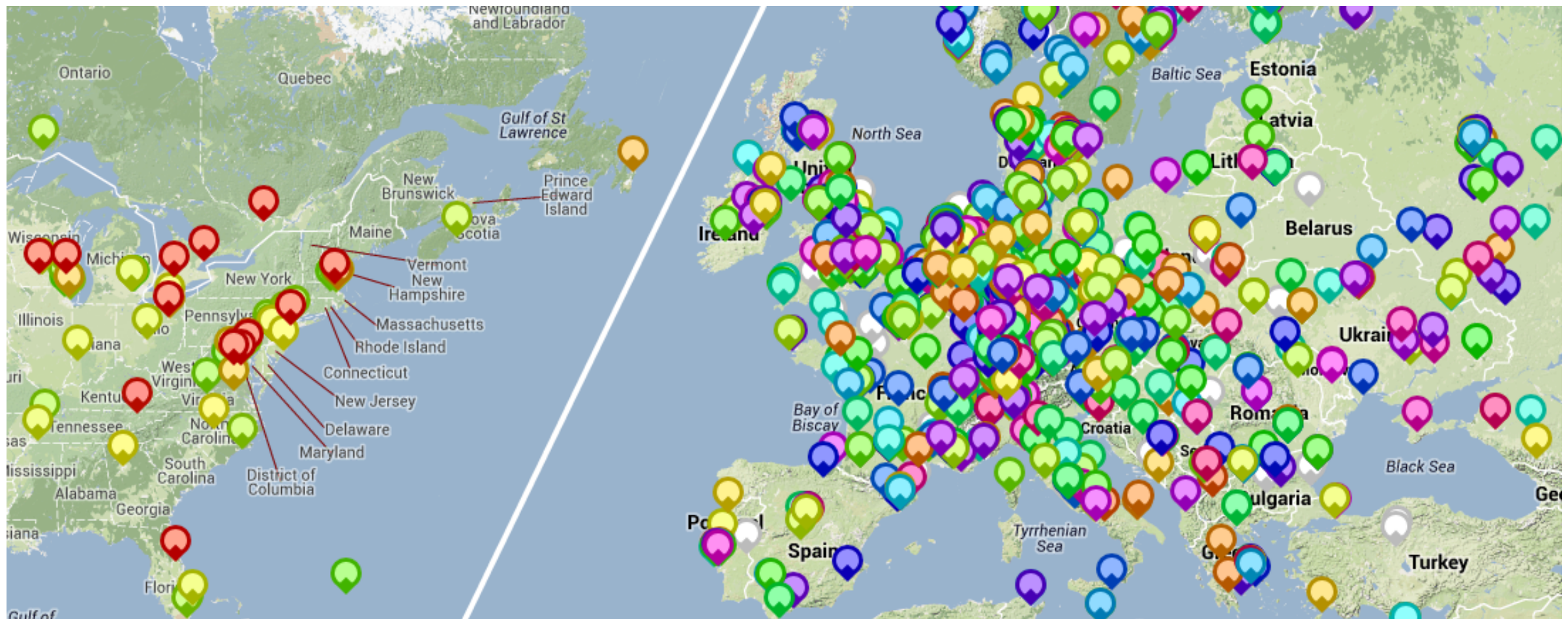
Answer Diversity

> *dig www.bing.com AAAA*

HTTP

SSL Certificate
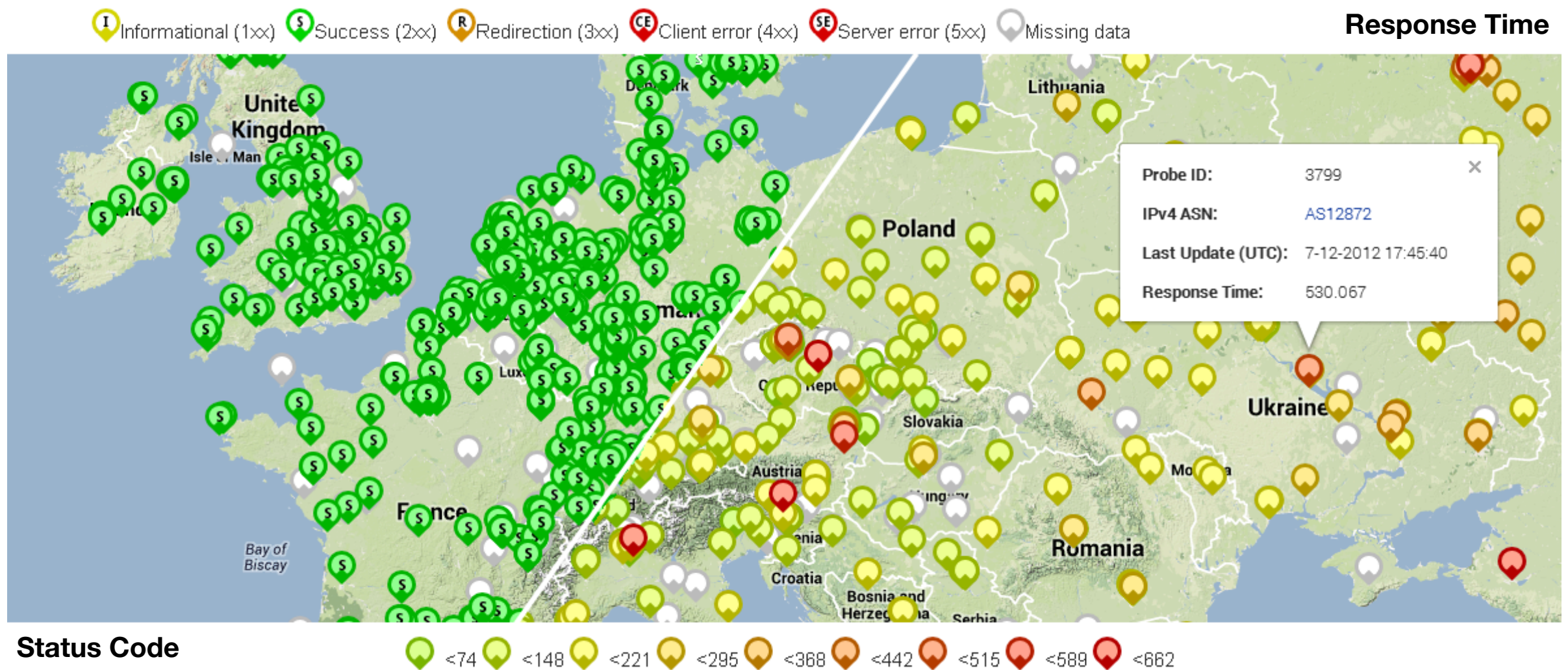
Probe	ASN (v4)	ASN (v6)			Time	Consistency	Validity	Self Signed
38	3265	3265	🇳🇱	✓	2014-07-25 11:13	Pass	Pass	☐
73	41682	6939	🇷🇺	✓	2014-07-25 11:13	Pass	Pass	☐
169	34244	34244	🇸🇪	✓	2014-07-25 11:13	Pass	Pass	☐

Majority Record

CN	*.ripe.net
O	RIPE NCC
C	NL
Not Before	2014-04-15 00:00:00 (Z)
Not After	2015-07-15 12:00:00 (Z)
SHA1	B7:C7:A5:C6:00:9F:19:5A:06:CF:46:07:91:D7:62:16:7F:8E:A1:C1

This Record

CN	*.ripe.net
O	RIPE NCC
C	NL
Not Before	2014-04-15 00:00:00 (Z)
Not After	2015-07-15 12:00:00 (Z)
SHA1	B7:C7:A5:C6:00:9F:19:5A:06:CF:46:07:91:D7:62:16:7F:8E:A1:C1

RIPE Atlas Probes growth

Probes
The number of connected probes

69 Anchors are online
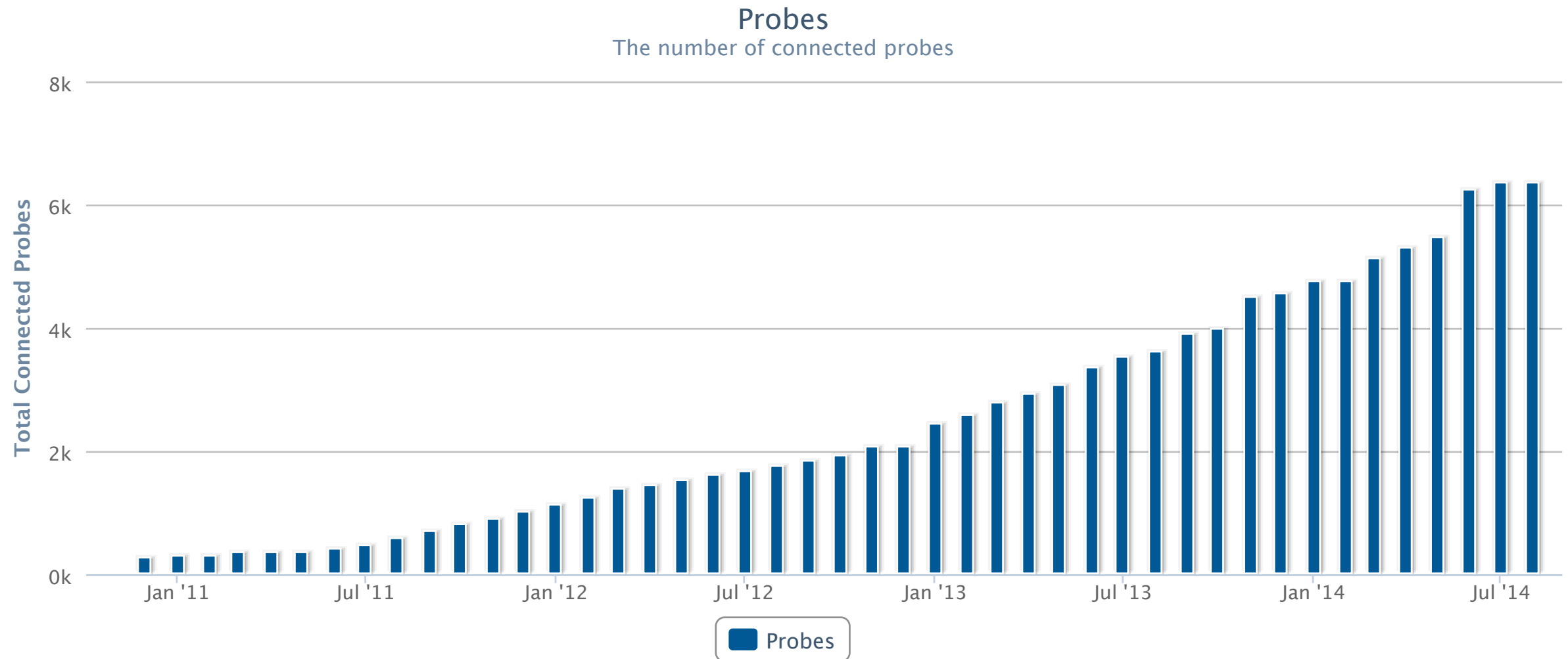
RIPE Atlas Anchors
Growth in the number of RIPE Atlas anchors over time
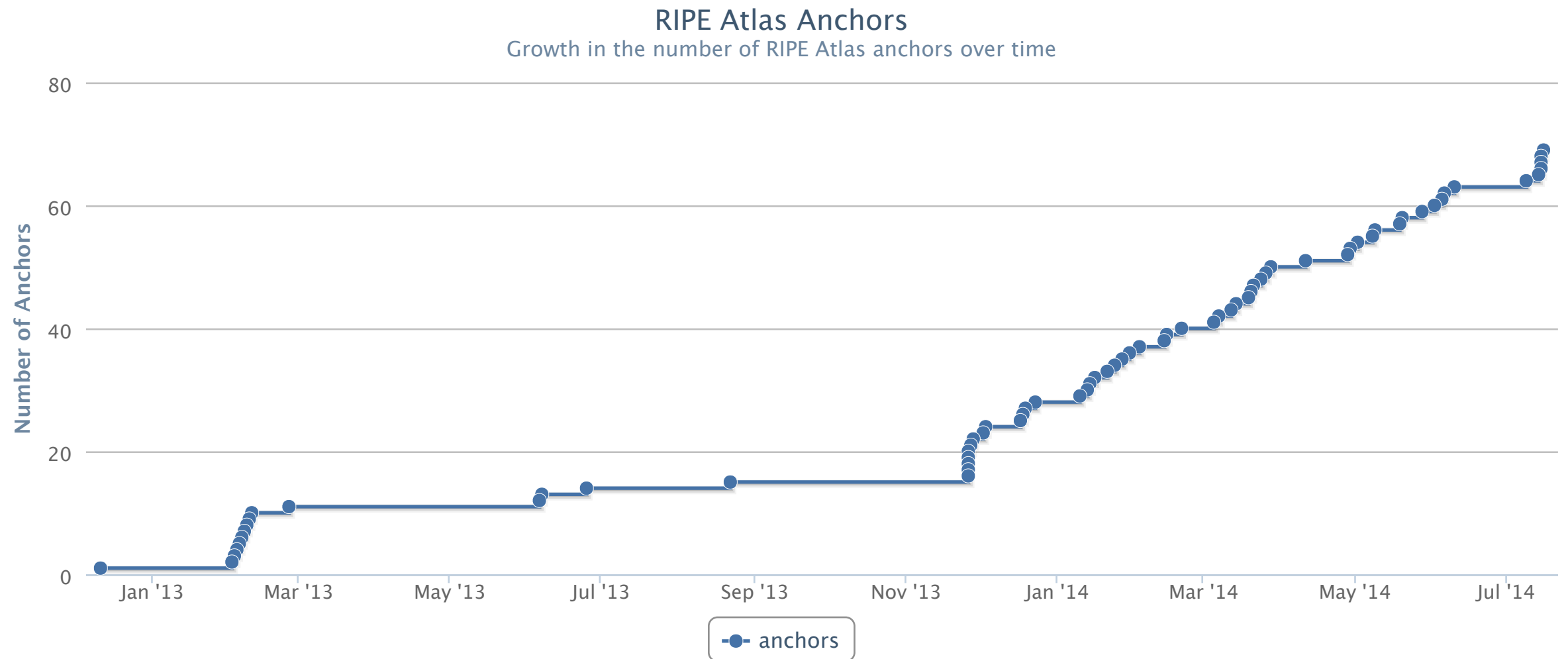
- By hosting a probe at your home, office or network you earn credits, that you can spend to own measurements

  - Order your own probe at https://atlas.ripe.net/

- Host an anchor to have even more powerful and customizable tool

  - run more measurements, earn more credits

  - define the exact place on Earth from where you want to run measurements

  - Get a continual view of the regional reachability of your network

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RIPE Policy Development Process

What is RIPE PDP?

- The RIPE Policy Development Process (PDP) formally tracks input into policy proposals submitted by the RIPE community

  - It is is consensus based

  - Everyone can participate

  - All discussions, proposals and policies are archived and are accessible by the public

  - all proposals are always made by individuals, not entities

- RIPE NCC administrates the process

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How to participate?

- Simply submit a proposal to RIPE Working Group by contacting a relevant WG Chair - https://www.ripe.net/ripe/groups/wg

  - no need to be a RIPE NCC member

  - don't have to attend RIPE NCC meetings

  - no fee

  - all you need is e-mail

- Anyone can start a discussion, anything can be put on the discussion table, anyone can contribute

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Slide Title

The RIPE Policy Development Process (PDP)

Phase	Action	Weeks
	Policy Proposal is Made	0
Discussion Phase (9 weeks)	**Initial Discussion of Proposal (at least 4 weeks)**	1
		2
		3
		4
	Proceed to Documentation?	5
	Document is Drafted and Published Together with the Impact Analysis for the Proposal	6
		7
		8
		9
Review Phase (5 weeks)	**Comment and Review (no more than 4 weeks)**	10
		11
		12
		13
	Is There Consensus?	14
Concluding Phase (5 weeks)	**Last Call (exactly 4 weeks)**	15
		16
		17
		18
	Is There Consensus?	19
	Announce Decision	

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- 2013-03 - removed the requirement to provide a detailed need-justification to the RIPE NCC before receiving the final /22 allocation or a transferred allocation

  - eased the process of requesting and transferring resources

  - 11 month to be accepted, 4 versions

  - this is a core-changing proposal, so we say it took «only» 11 month to be accepted

- 2014-01 - removes the minimum allocations size

  - Before it was a /22

  - Now allocations can be split in smaller prefixes; and ranges smaller than /22 can be transferred

  - took only 4 month to be accepted, 1 version - impressive pace - an absolutely minimum time that is needed according to RIPE PDP

RIPE RACI

RACI

- RACI - RIPE Academic Cooperation Initiative

- Giving academics the chance to attend biggest RIPE events - all expenses paid (travel, accommodation, social events)

- Gives academics a chance to present their research in front of the biggest and most influential technical organisations in the world

- Get valuable feedback from industry experts

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- Meet with experienced members of Internet community for feedback

- Enhance career and development prospects

- Have their work published to the Internet community on RIPE Labs

- Topics can include Network measurement and analysis; IPv6 deployment; BGP routing; Network security; Internet governance

- Apply until 12 September 2014 for RIPE 69 event in London

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- Application from academics to attend the RIPE 69 Meeting in London from 3-7 November are now being accepted

- Apply before 12 September

- https://ripe69.ripe.net/programme/raci/application-process/

Questions?