Questions about RIPE Atlas future features
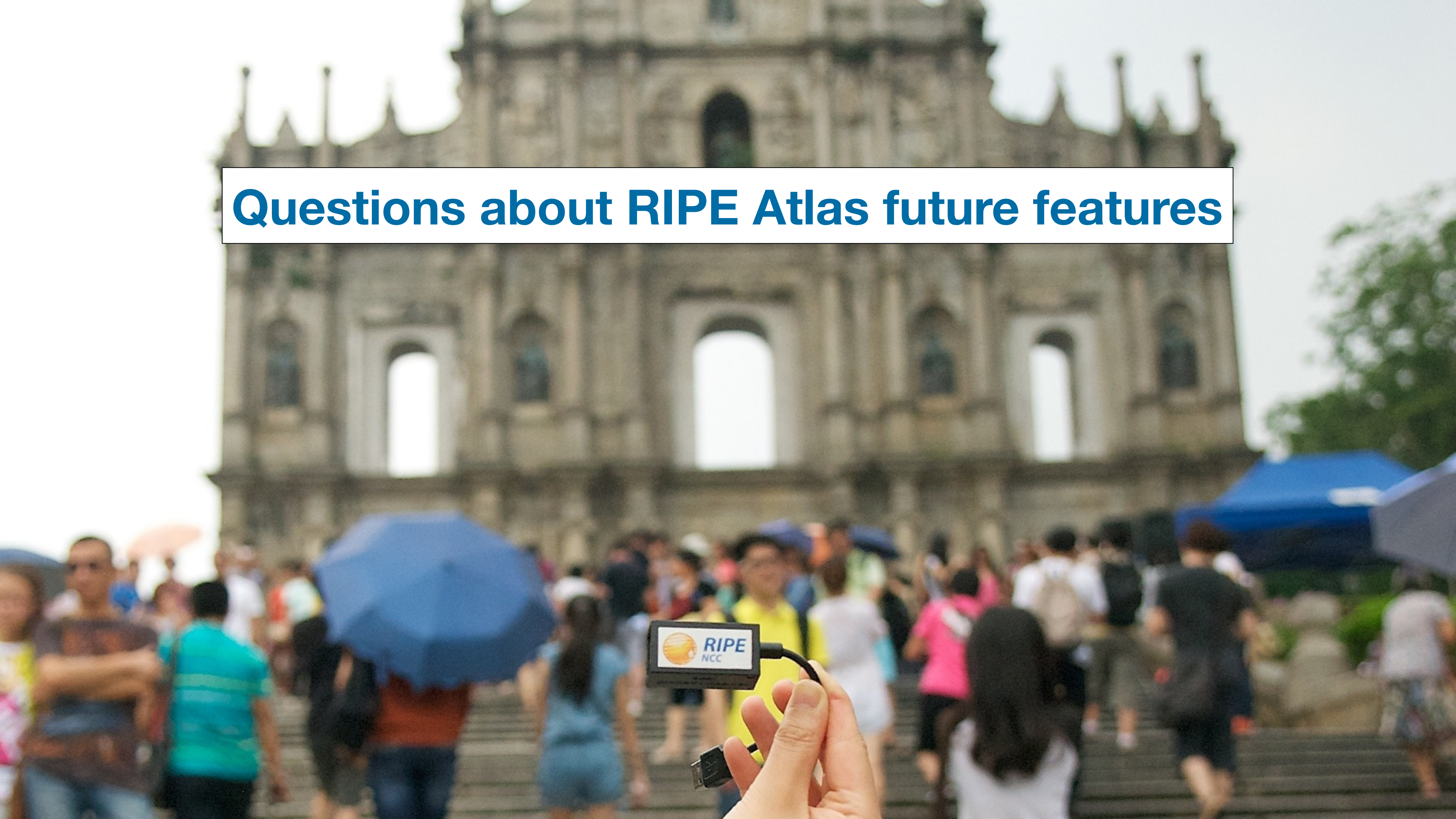
Prefix coverage for IPv6:

IPv6 prefix	Number of up probes
2001:470::/32	82
2002::/16	42
2a01:e00::/26	33
2001:980::/32	23
2001:8b0::/32	14
2001:67c:2e8::/48	14
2001:4dd0::/32	12
2001:16d8::/32	8
2601::/28	8
2001:6f8::/32	8
2001:44b8::/32	7
2001:6f8:1200::/39	6
2001:610::/32	6
2001:660::/32	5
2001:738::/32	5
2001:1620::/32	5
2001:6f8:1000::/38	4
2001:630::/32	4
2a01:198::/32	4
2001:6c8::/29	4
2a02:2918::/32	4
2a01:240::/32	4

Country coverage:

Country code	Number of up probes
DE	291
GB	167
FR	148
NL	121
US	106
RU	77
CZ	55
DK	54
SE	52
CH	50
IT	49
AU	45
AT	41
NO	40
UA	39
BE	35
ES	33
PL	32
PT	29
FI	27
IE	24
RO	24

RIPE NCC

Probes distribution: far away or NCC region?

User Defined Measurement

UDM Type and target

Ping
Ping6
Traceroute
Traceroute6
DNS
DNS6
HTTP
HTTP6
SSLCert
SSLCert6

SSLCert

| Measurement interval, s: | 1800 |
| Port: | |

Public: ☑
Do not visualise: ☑
Description:

Ok   Cancel

DNS

| Measurement interval, s: | 300 |
| UDP Reply bytes: | 512 |

DO: ☐
TCP query: ☐
NSID: ☐
Use probe's resolver: ☐
Recursion desired: ☐

| Query: | IN A |
| Argument: | |

Public: ☑
Do not visualise: ☑
Description:

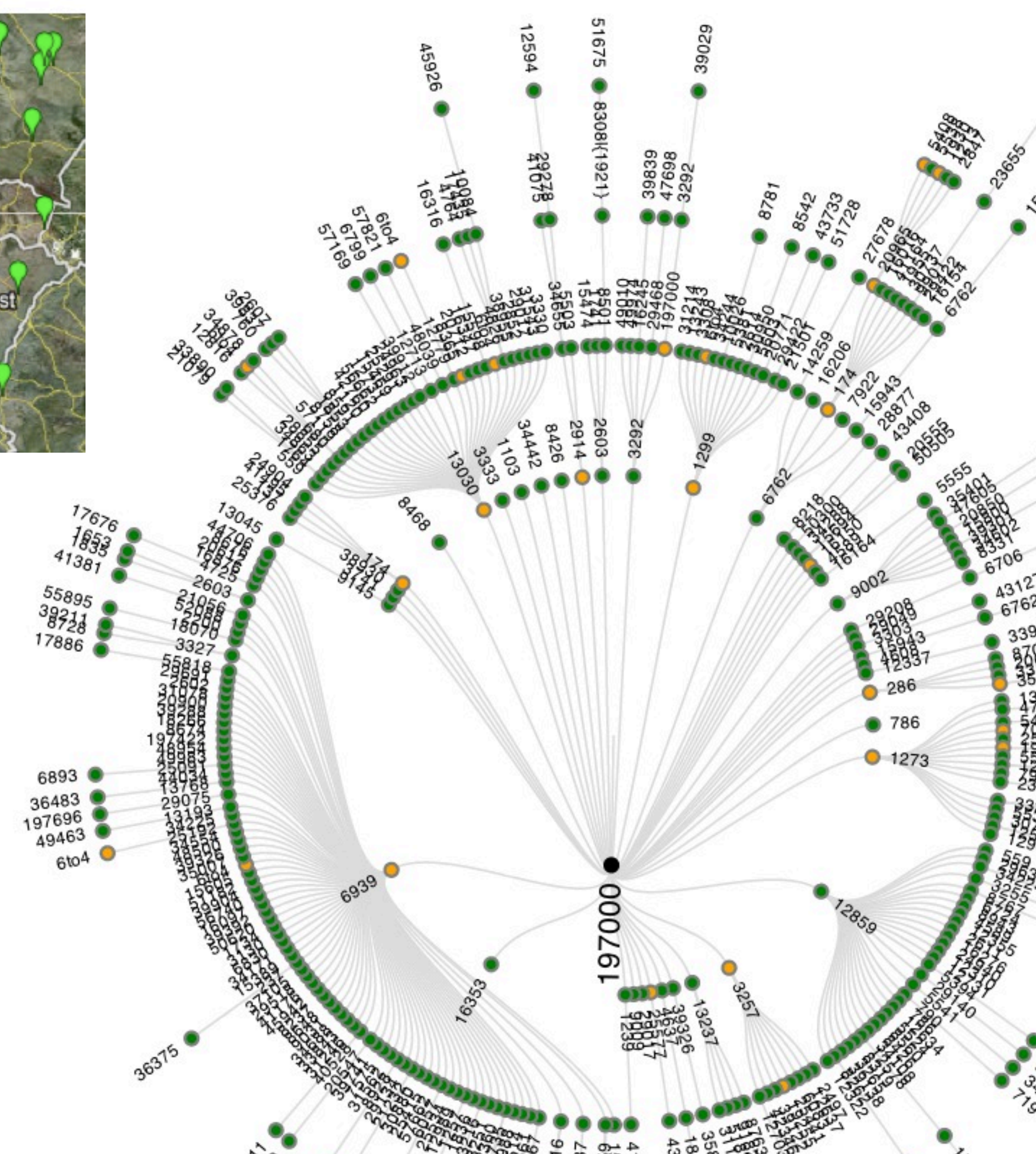« Previous   Next »

4

HTTP UDM: pro's & cons?

Alarms: automatic notifications of what??

Key (TCP/UDP ratio): ⬤ <=0.1x ⬤ <=0.5x ⬤ <=1x ⬤ <=2.5x ⬤ <=5x ⬤ <=20x ⬤ >20x ⬤ (UDP unreachable) ⬤ (TCP unreach

RTT, Ping to 94.100.125.129(94.100.125.129)

RTT, Ping to 94.100.125.129(94.100.125.129)

RTT, Ping to 94.100.112.1(94.100.112.1)
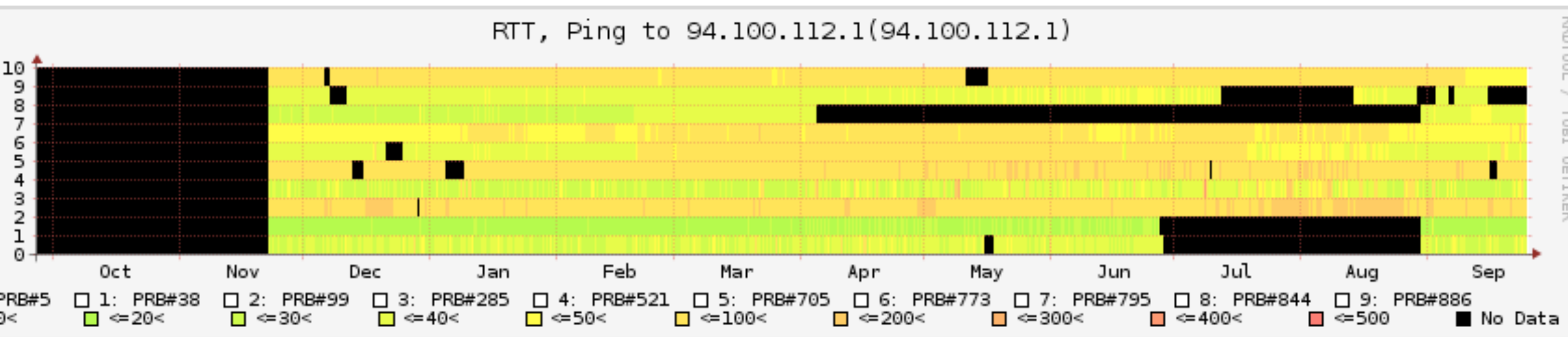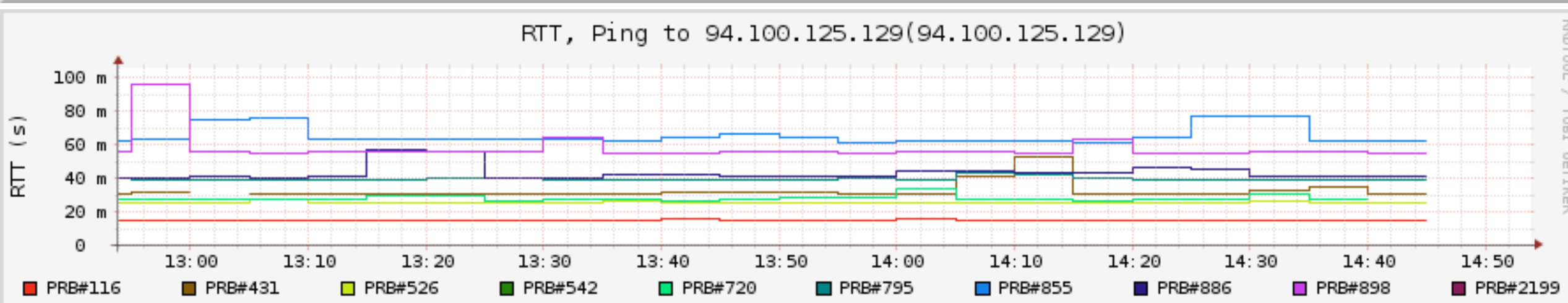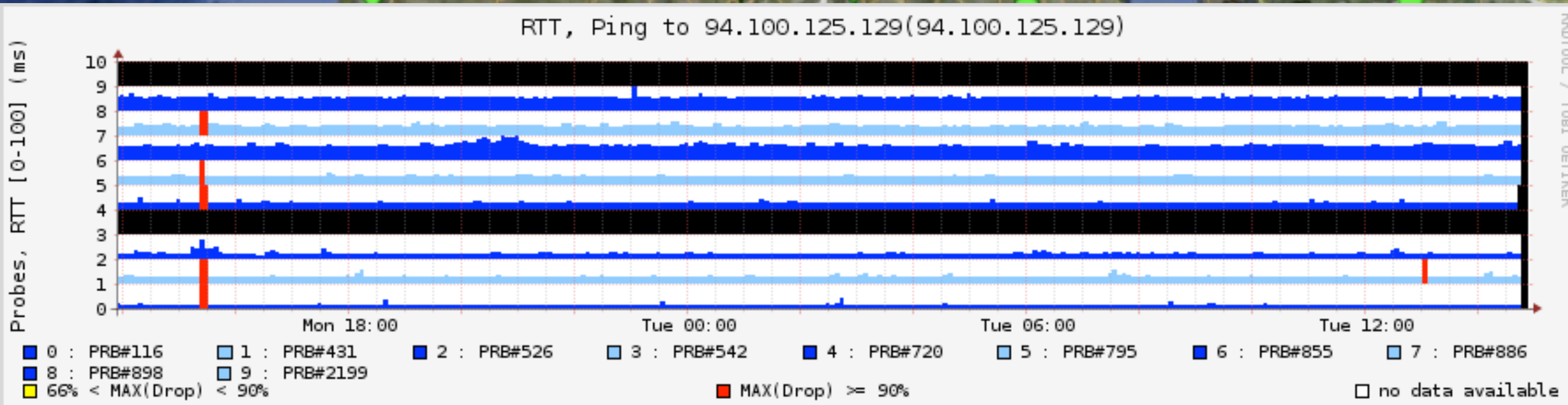
Visualizations

UDMs? Maps? IPv6/IPv4? Time?

Membership Services

Yes / No? In the LIR Portal? Which services?

"Can RIPE Atlas be more open?"

• All measurements results are publicly available

• Decisions on features priority are based on community feedback

• After several requests, we suggested "Open Sourcing" for the Activity Plan 2013
   – it needs enough resources (people & money) to do it right

• Executive Board gave us a negative answer

• Please approach Executive Board of RIPE-NCC-services-WG if you want us to work on this in 2014

Case-studies of RIPE Atlas usage

- Testing an occasional operational issue to verify DNS responses from a number of widely distributed measurement points:
  - https://labs.ripe.net/Members/pk/denic-case-study-using-ripe-atlas

- A Case Study of IPv6 /48 Filtering, Emile Aben

- IPv6 reachability testing before and during World IPv6 Launch
  - https://labs.ripe.net/Members/becha/world-ipv6-launch-ripe-atlas-use-cases

- Correlating Routing Configuration Changes with Forwarding Changes
  - David Lebrun, University of Louvain, Belgium

- Discovering Path MTU Black Holes on the Internet Using RIPE Atlas
  - Maikel de Boer, Jeffrey Bosma

- **atlas@ripe.net**

Photo credits:

- Arnd

- CK

- FixMe

- Ann

- @Ms_Measurements