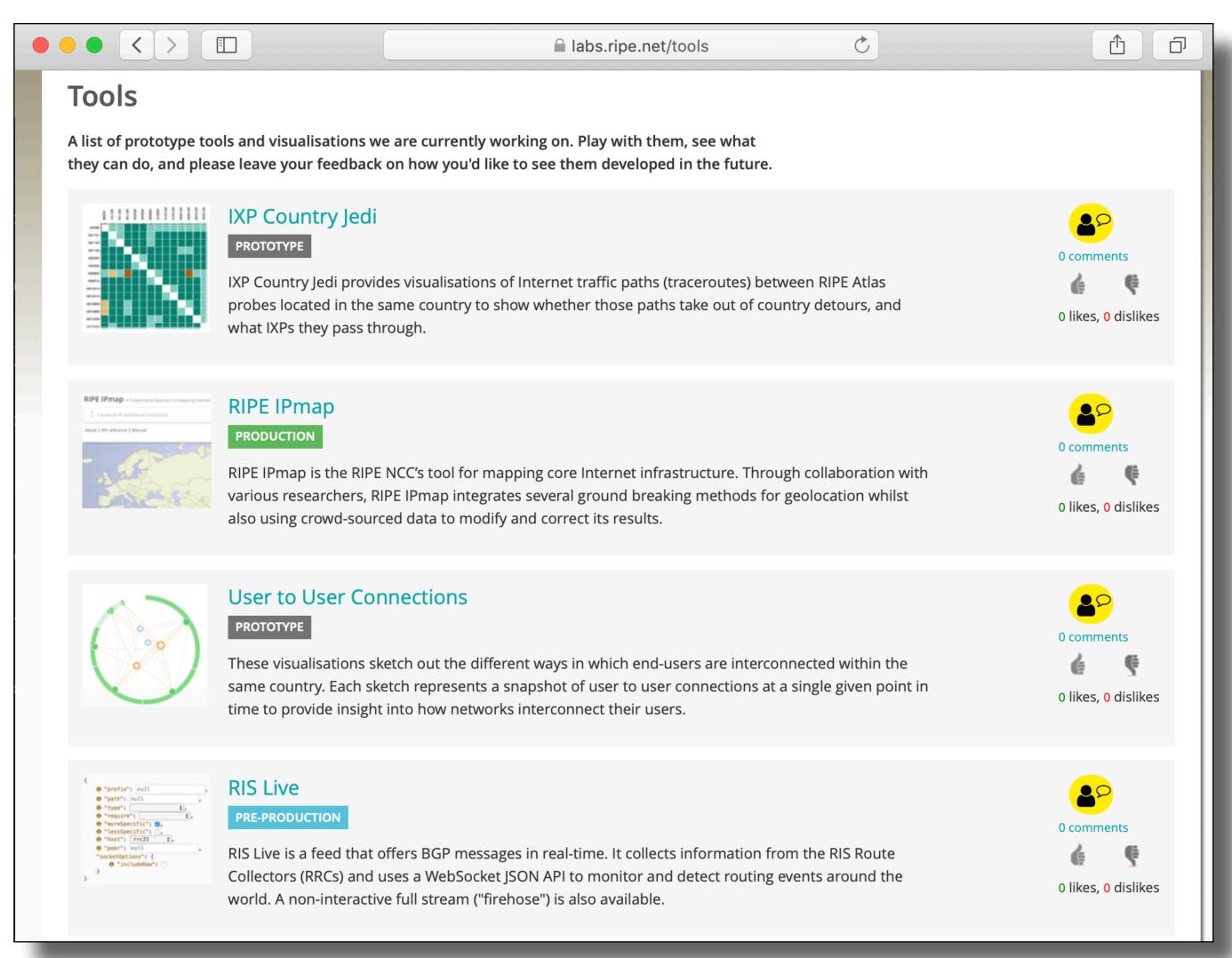


RIPE NCC Operator Tools

Tools on RIPE Labs



- List of tools and prototypes
- Current status of the tool
 - Prototype
 - Pre-production
 - Production
- Short description and link to tool
- Give us feedback!
- https://labs.ripe.net/tools





User-to-user measurements

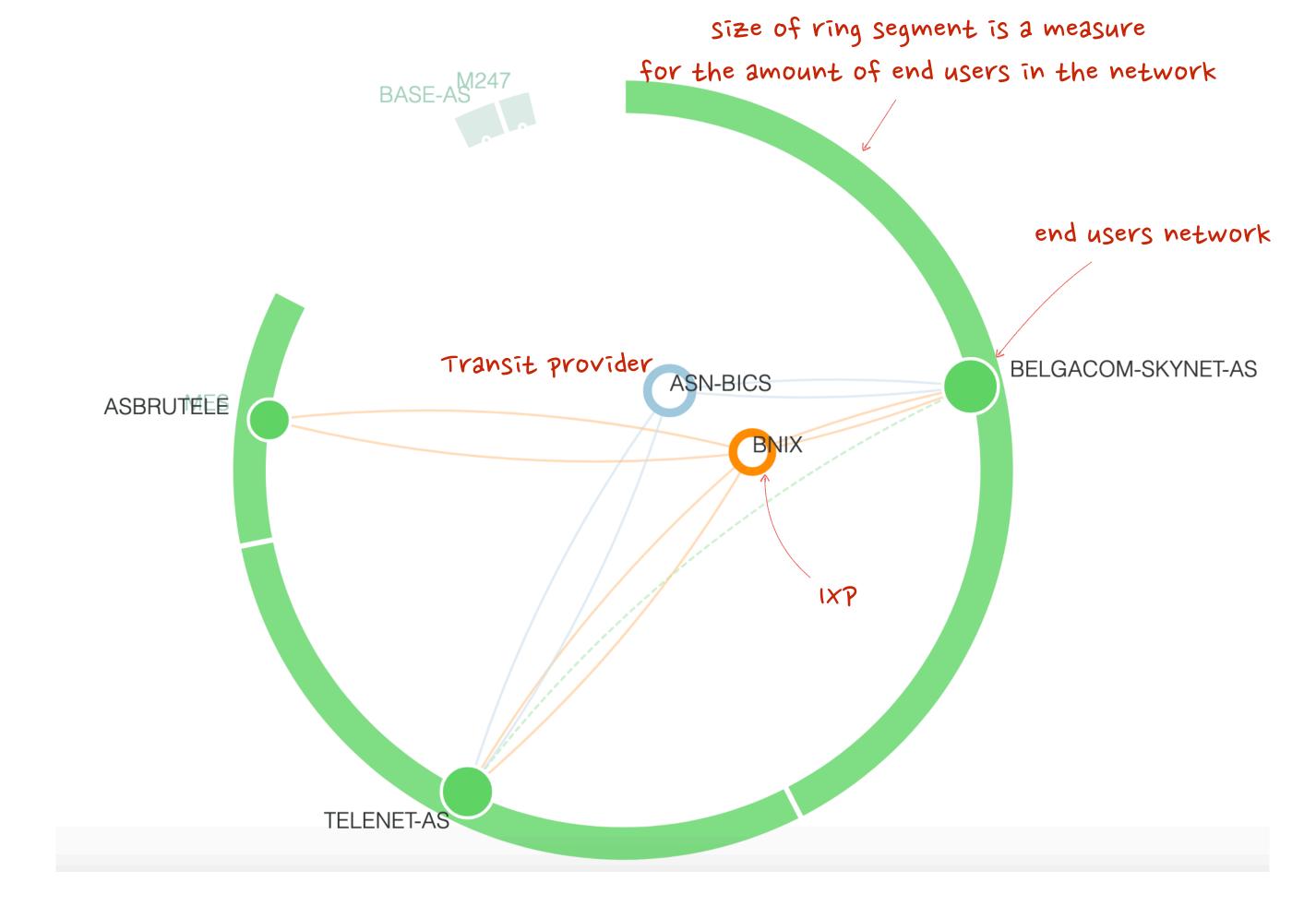
Motivation



- Usually client-to-server gets measured
 - For traffic and cost optimisation
- What about de-centralised, peer-to-peer, server-less connections?
- Sketches Internet eco system of a country
- Combines RIPE Atlas, user population estimates (APNIC)
- http://sg-pub.ripe.net/ixp-country-jedi/de/2019/10/01/

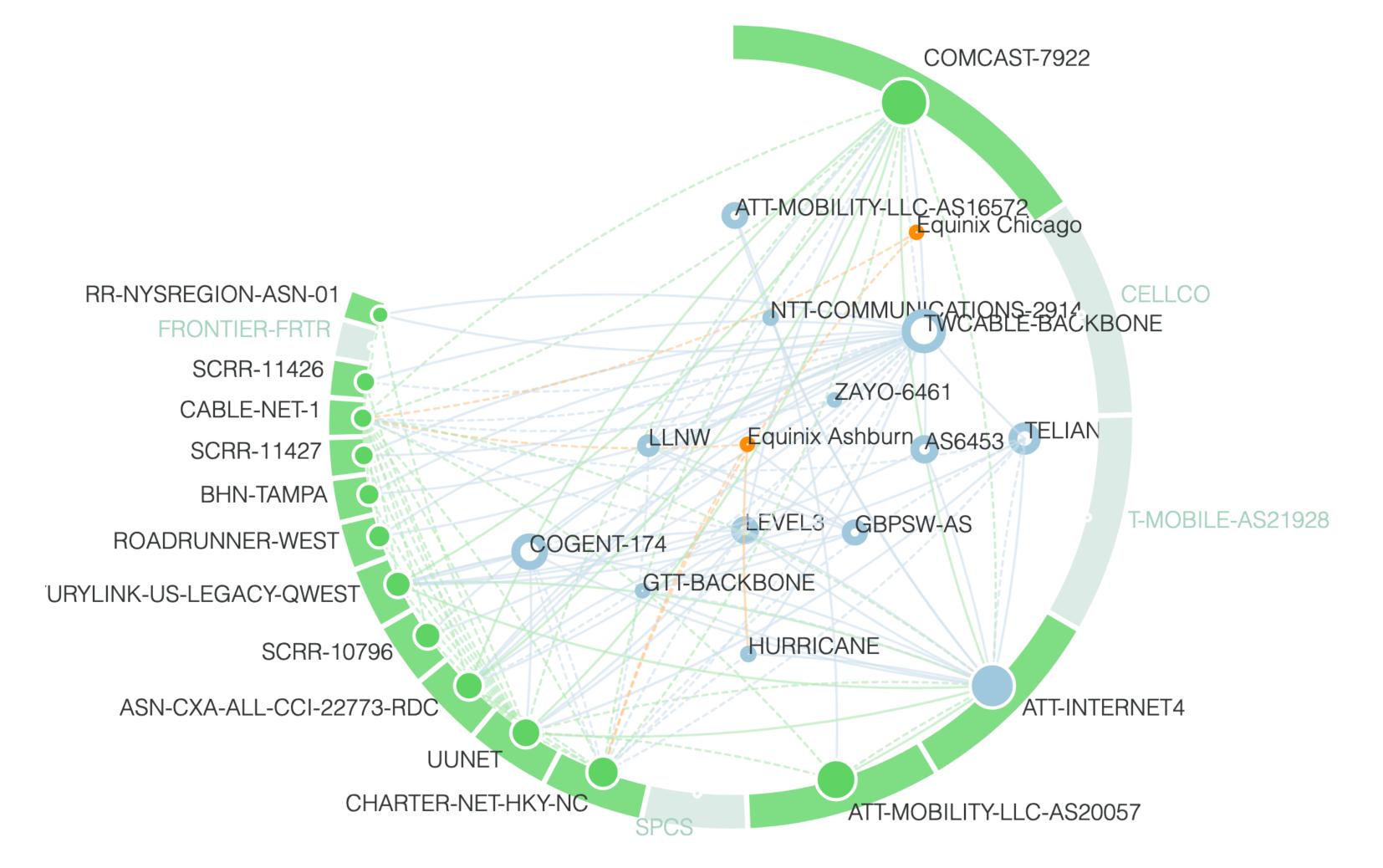


Belgium



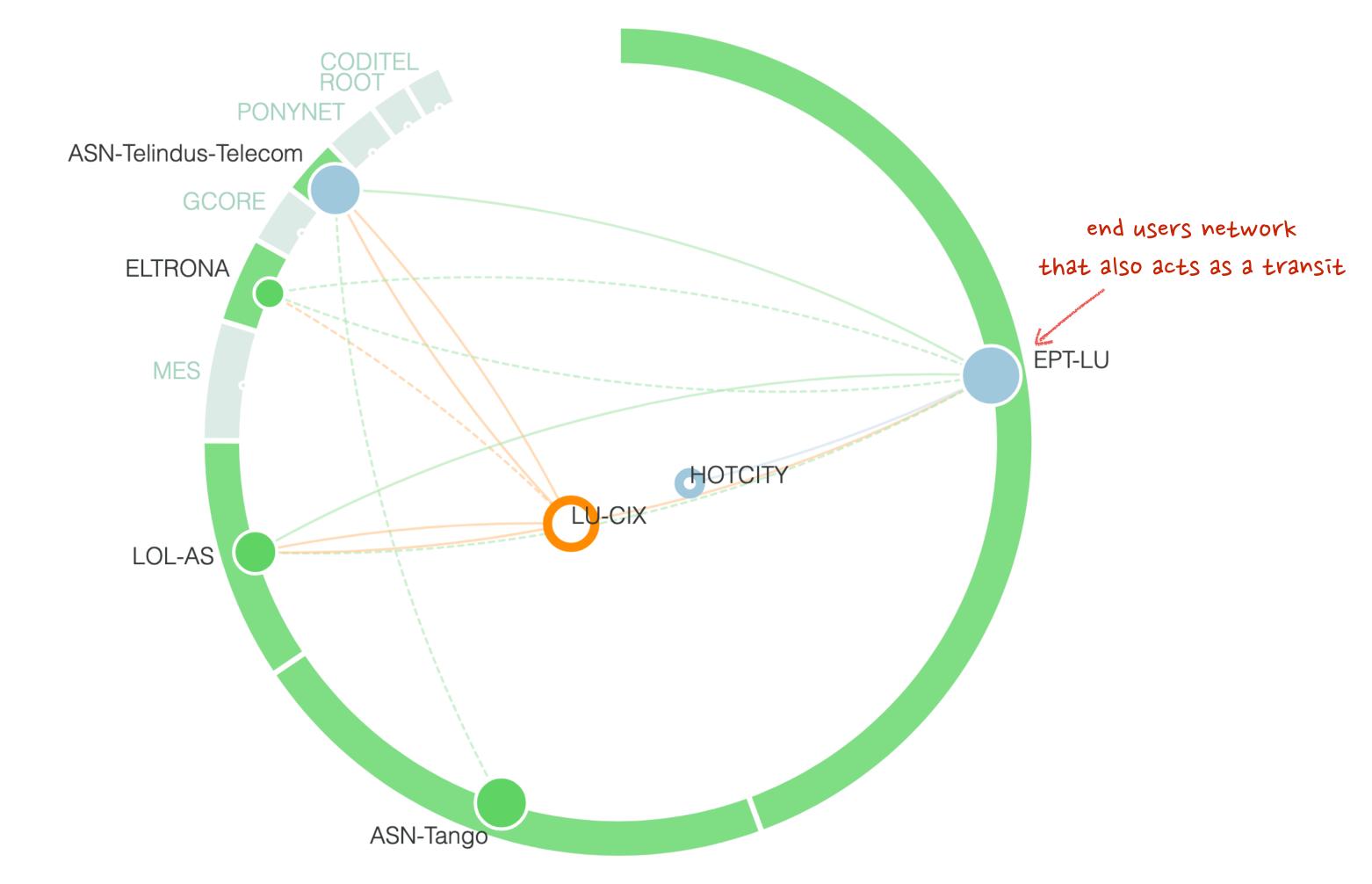


USA





Luxembourg



RIS Live



- BGP messages in real time
- Monitors and detects routing events from around the world
- RIS collectors + WebSocket JSON API
- <1s latency end to end</p>

https://ris-live.ripe.net/

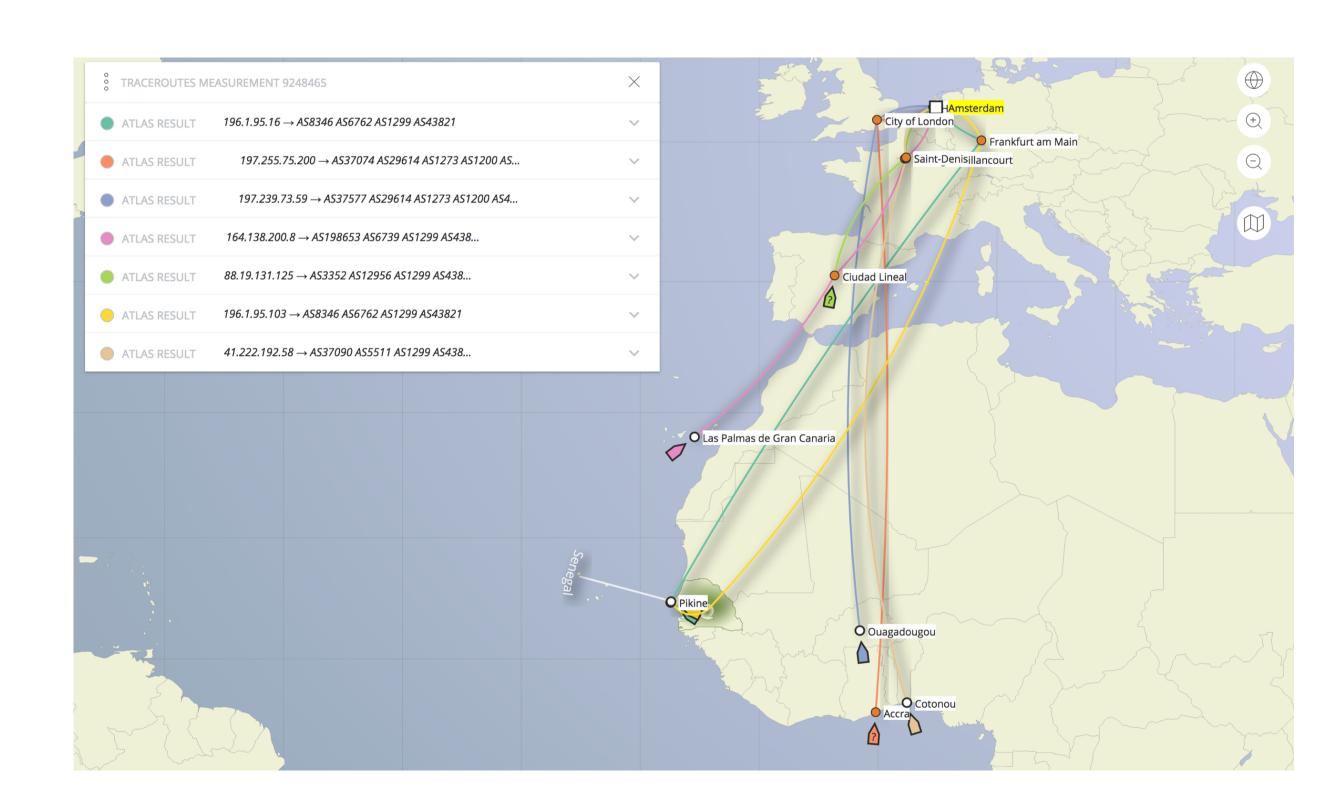
```
ive RIS BGP messages
                                 6165 matching messages 6
        Connected
/ Received at 14:05:05 (0.25 second delay)
   "timestamp": 1550235905.09,
   "peer": "91.206.52.130",
   "peer_asn": "58299",
   "id": "91.206.52.130-1550235905.09-3854212",
   "host": "rrc20",
   "type": "UPDATE",
   "path": [58299, 6939, 2914, 12859, 12654],
   "community": [[58299, 1100]],
   "origin": "igp",
   "announcements": [
           "next_hop": "2001:7f8:24::82",
           "prefixes": [
               "2001:7fb:ff02::/48"
           "next_hop": "fe80::4e5e:cff:fe25:40c4",
          "prefixes": [
               "2001:7fb:ff02::/48"
```

RIPE IPmap



- Mapping core Internet infrastructure
- Combines several sources, including crowd-sourced data
- https://ipmap.ripe.net/api

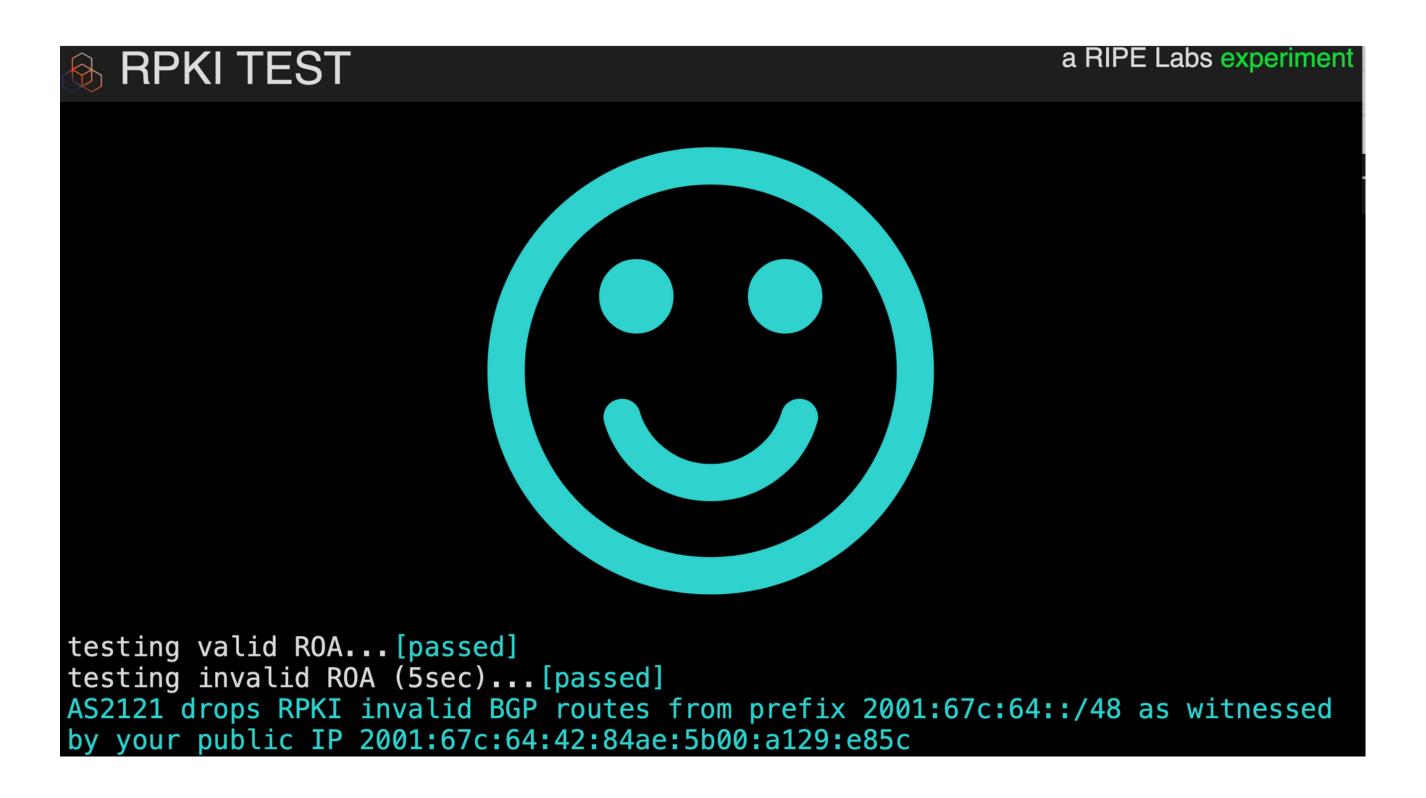
Work in progress



RPKI Test



- Does the network you are on drop invalid BGP announcements?
- https://sg-pub.ripe.net/jasper/rpki-web-test/





RIPE Atlas

At a Glance



- Probe population is stable at 10K+
- 500 connected anchors
 - 145 are virtual
 - Apply at https://atlas.ripe.net/get-involved/become-an-anchor-host/

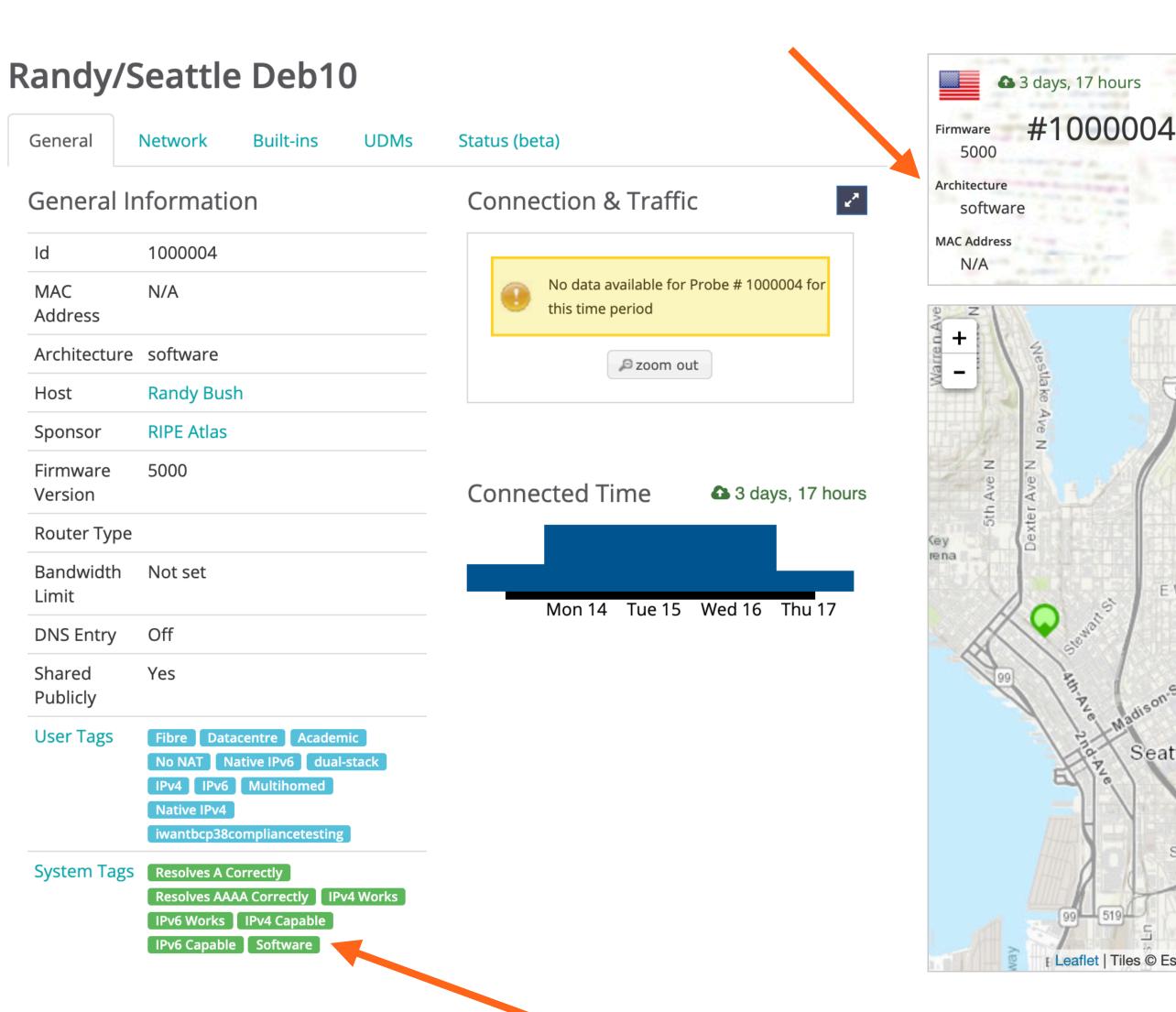
Working on new version



Software Probes



- Software tags
- In test phase now
 - Until end of 2019
- If you are interested:
 - https://www.ripe.net/participate/ forms/apply/atlas-probes/

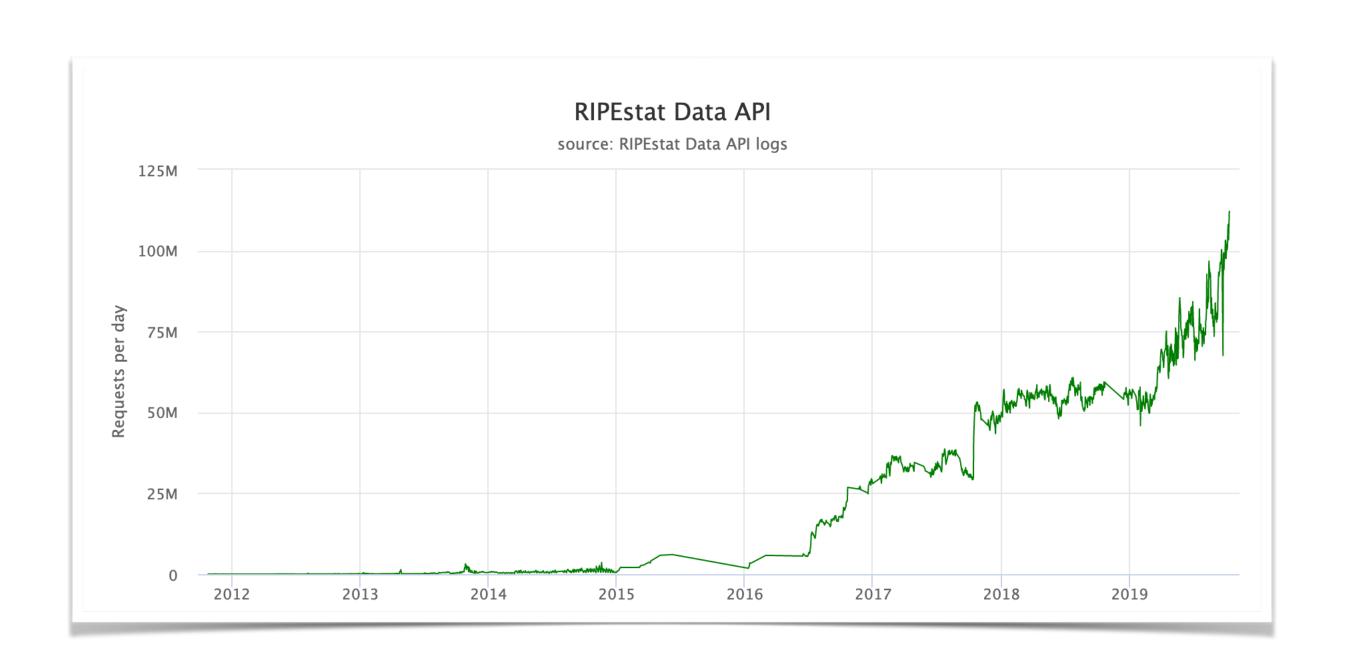




RIPEstat

RIPEstat Usage (stat.ripe.net)



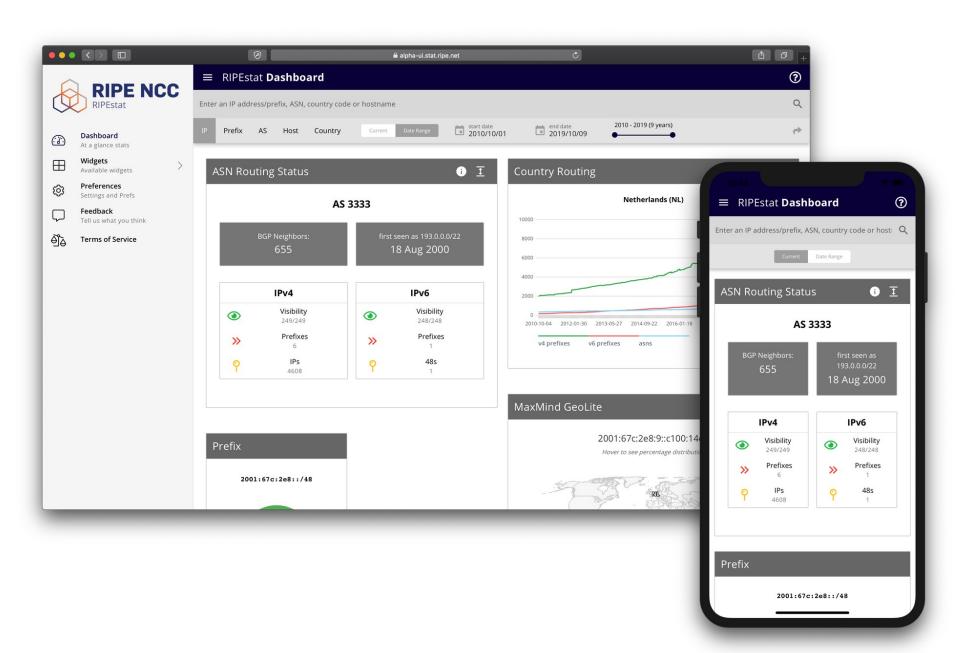


100% increase in 2019 (~50M to ~100M+ requests/day)

RIPEstat - UI Concept



- Development update on new Ul
 - Dashboard view
 - More widgets
 - https://labs.ripe.net/Members/stephen_suess_1/ripestat-next-generation-ui
 - https://beta-ui.stat.ripe.net/dashboard



Articles on RIPE Labs



Some articles from the recent past:

- 25,000 LIRs An End to the Milestone Highs?
- How Diverse is RIS?
- Routing to and from the Netherlands
- RPKI Test
- Inter-RIR Collaboration Produces new Product Prototype
- RIPEstat is Getting Ready for a Face-Lift
- ... and more on RIPE Labs

RIPE Labs





- 11,050 articles since 2009
- Time for a revamp!
- We're considering new design, content, features and functions
- Tell us what you like to see on RIPE Labs
 - labs@ripe.net
 - @RIPELabs





Questions (4)

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