RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC Tools and Services - An Update

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RIPE NCC

RIPE Atlas

RIPE Atlas Probes

Probes perform a variety of active measurements: ping, traceroute, DNS, HTTP(S), SSL/TLS, NTP

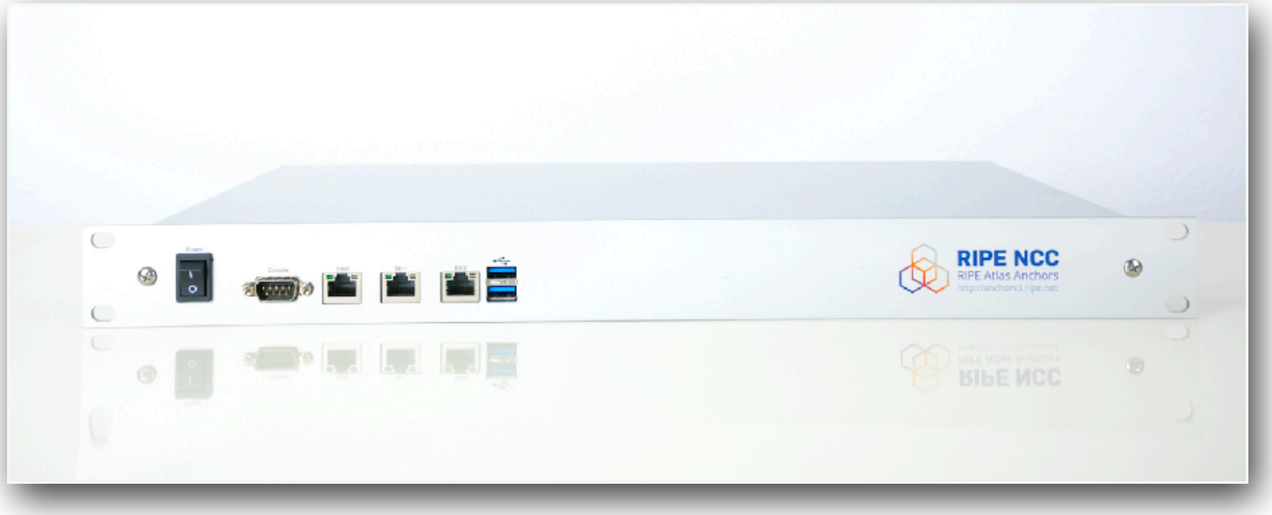
- **11,000+ probes connected**
  - **In Denmark: 147**
- Now distributing Version 4 probes
  - NanoPi NEO Plus2 with 512MB RAM and heat sink
  - Further information: atlas.ripe.net/docs/probe-v4/
- Stock and distribution
  - Currently waiting on next batch of probes

RIPE Atlas Anchors

Anchors are probes with enhanced measurement capacity

Set up at special locations to act as highly reliable measurement targets

- 650+ anchors connected
- 250+ of these are VM anchors
  - A non-hardware option for anchor hosts

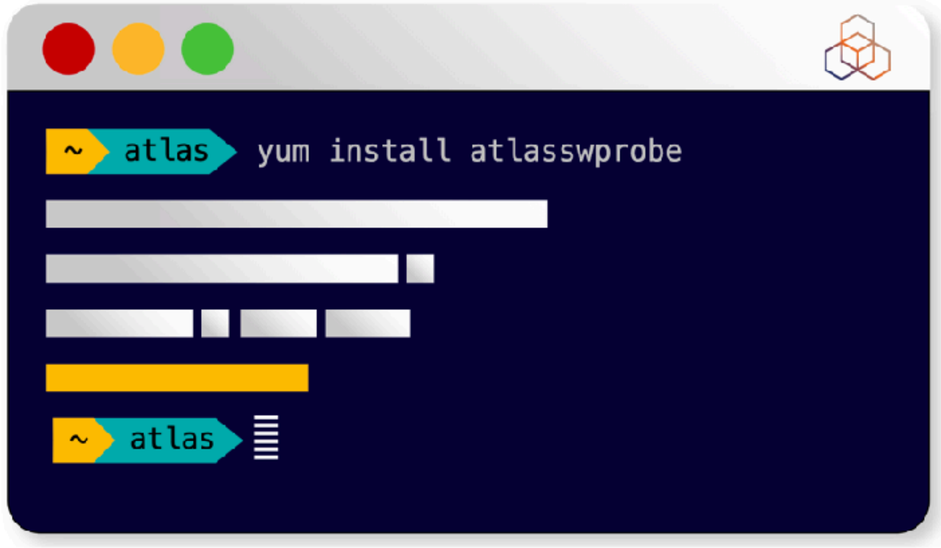


RIPE Atlas Software Probes

Released on 12 February 2020

They work just like regular probes

- **280 software probes registered**
- Install and run on your virtual machines, home routers, servers, etc.
- Currently supporting:
  - CentOS 7 and 8; Debian (9 and 10) and Raspbian; Docker; Turris Routers

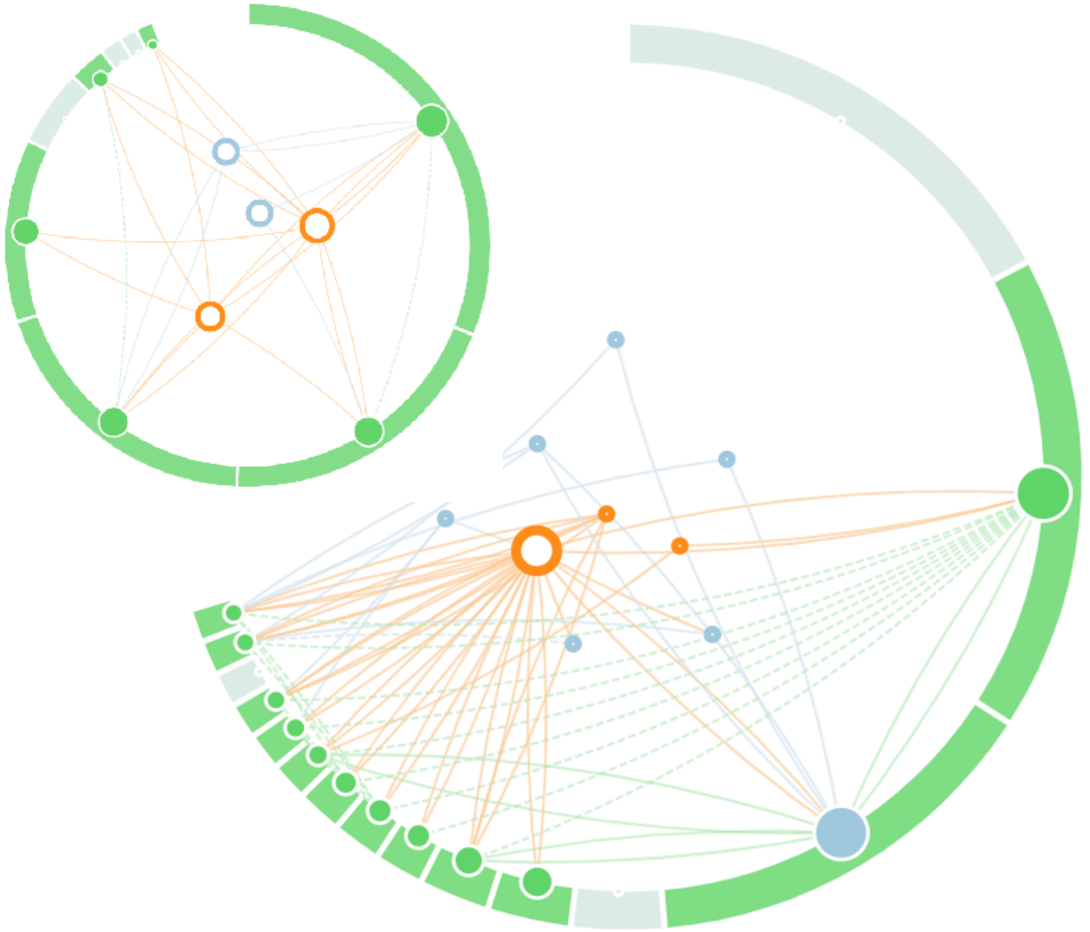


User-to-User Connections

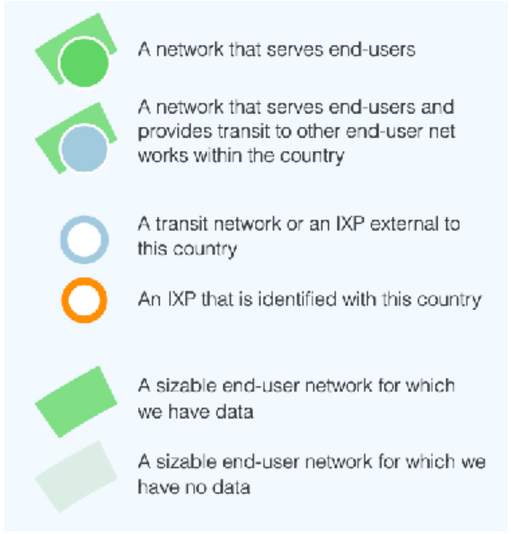
Visualisations that sketch the different ways in which end-users are interconnected within a country

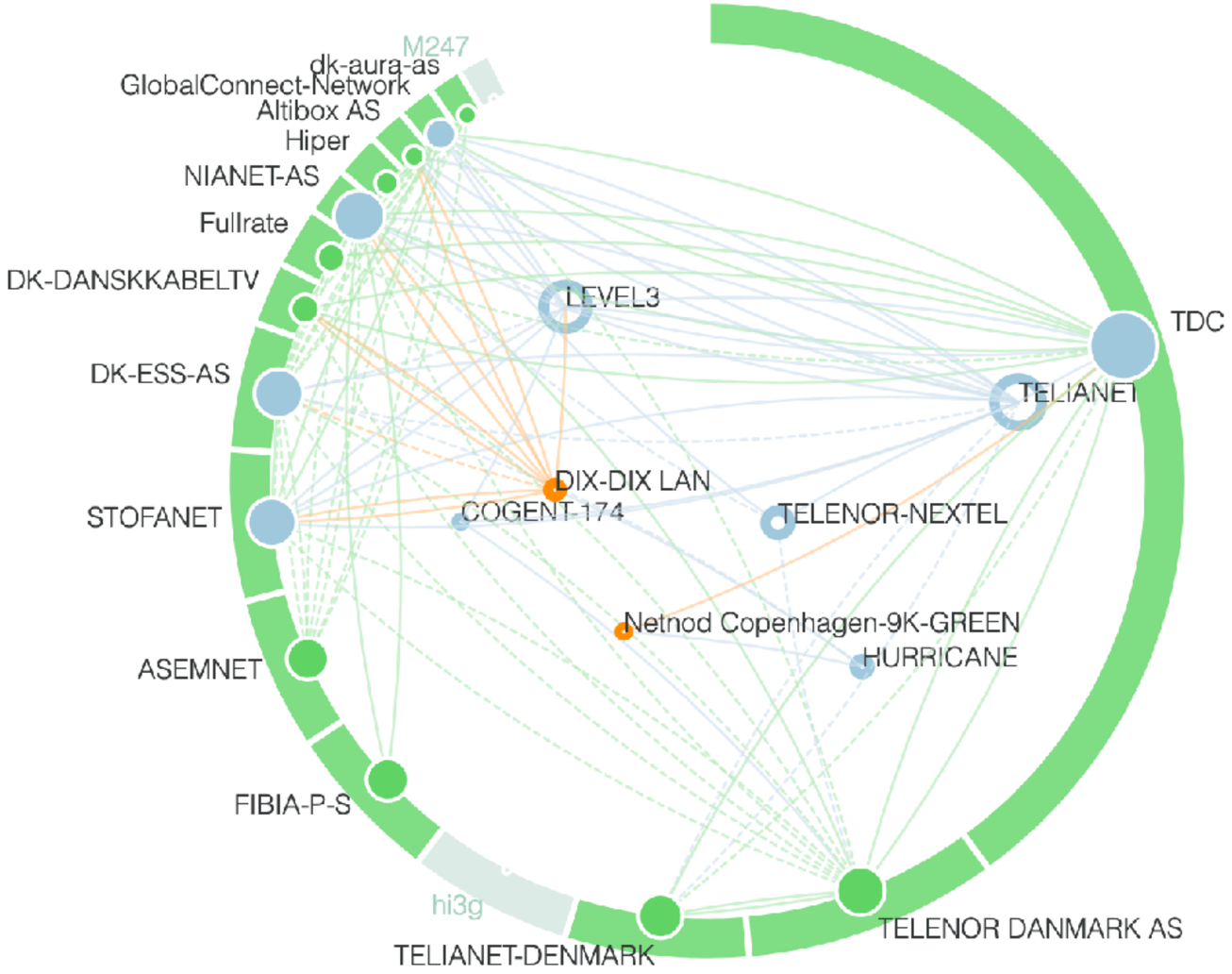
- Paths between networks (end-to-end)
- Do they go through an IXP?

  - https://sg-pub.ripe.net/ixp-country-jedi/



Denmark


A network that serves end-users
A network that serves end-users and provides transit to other end-user net works within the country
A transit network or an IXP external to this country
An IXP that is identified with this country
A sizable end-user network for which we have data
A sizable end-user network for which we have no data


M247
dk-aura-as
GlobalConnect-Network
Altibox AS
Hiper
NIANET-AS
Fullrate
DK-DANSKKABELTV
DK-ESS-AS
STOFANET
ASEMNET
FIBIA-P-S
hi3g
TELIANET-DENMARK
LEVEL3
DIX-DIX LAN
COGENT-174
Netnod Copenhagen-9K-GREEN
HURRICANE
TDC
TELIANET
TELENOR-NEXTEL
TELENOR DANMARK AS

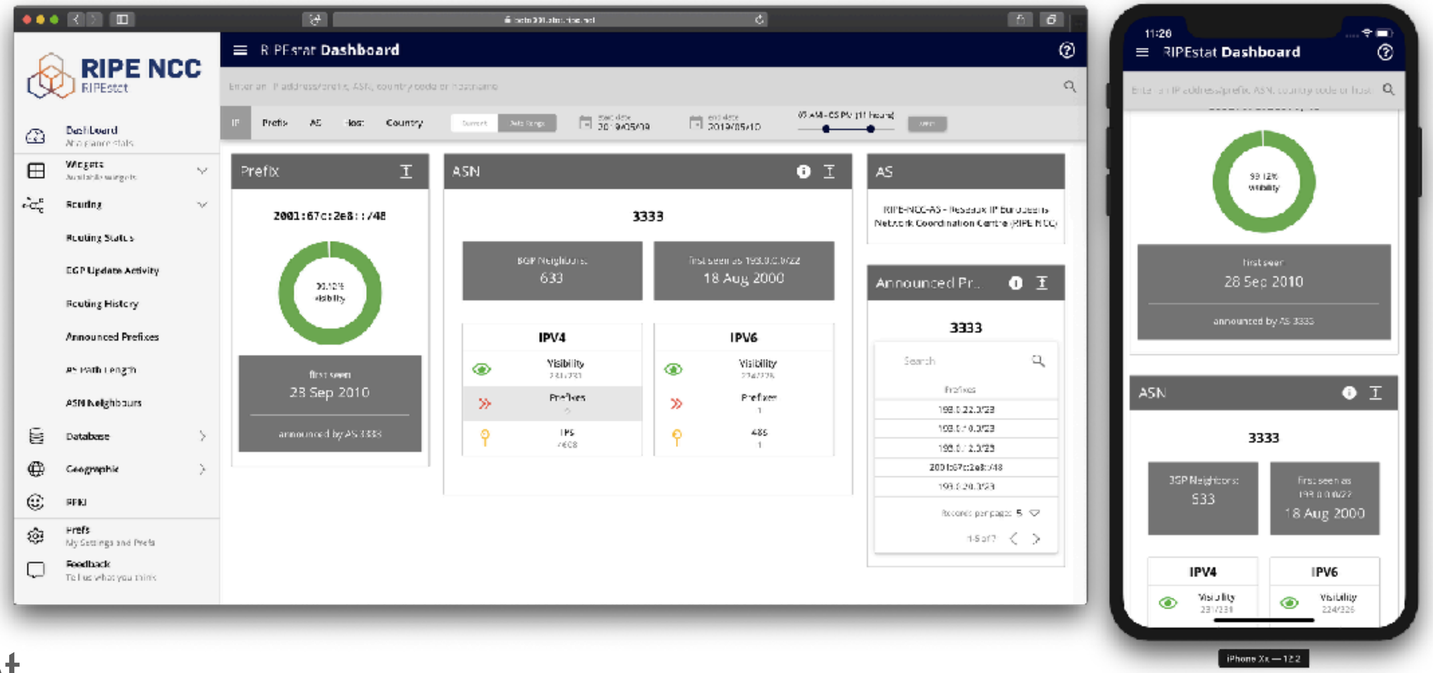
RIPEstat

A New RIPEstat UI

New prototype UI, available to all users

Will replace the existing frontend

- Faster, more modern interface
- Mobile-friendly

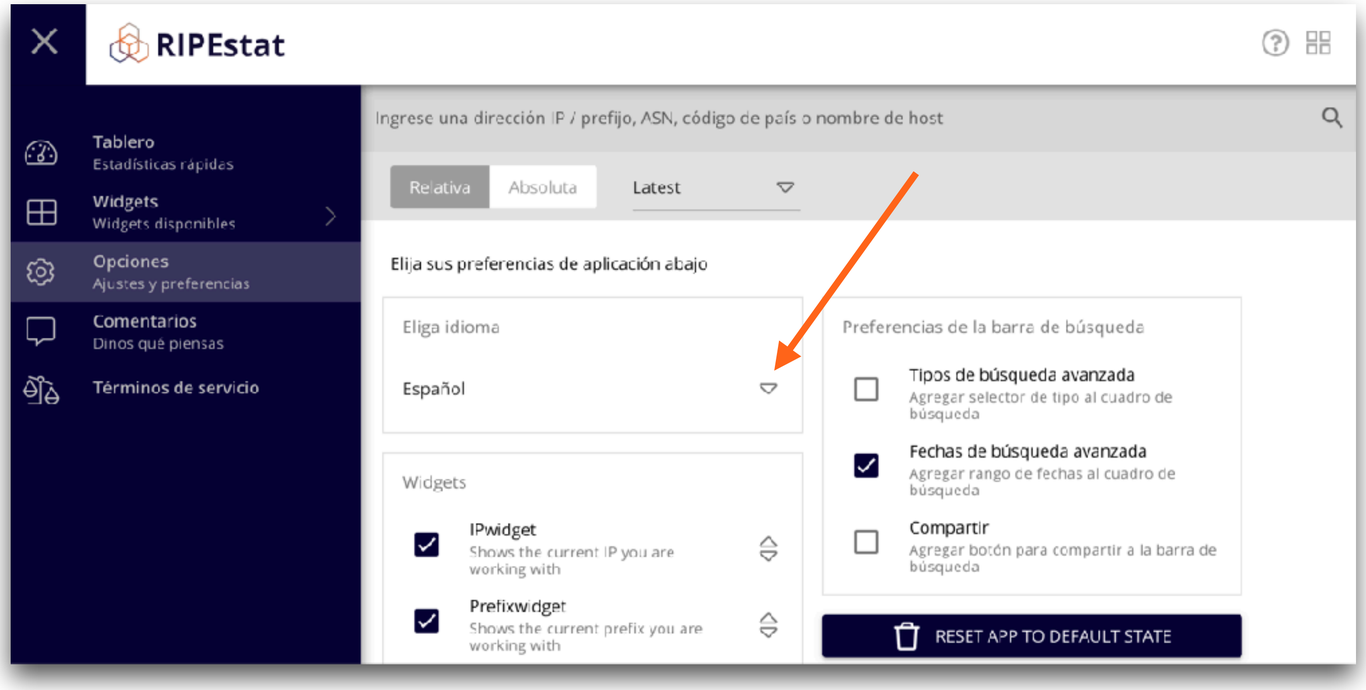


https://alpha-ui.stat.ripe.net

New Translation Feature

Reliable translations in the RIPEstat prototype UI

- Translations for key interface elements
- Support for eight languages
- Users can upload translations



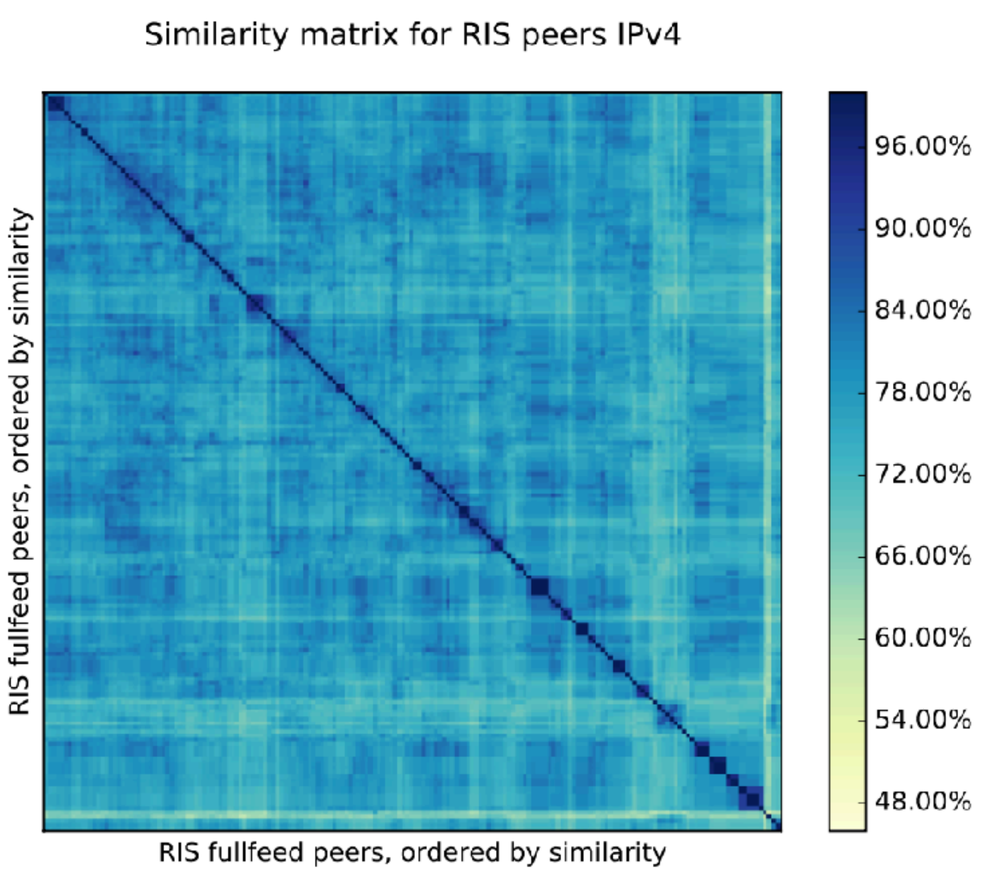
RIPE RIS

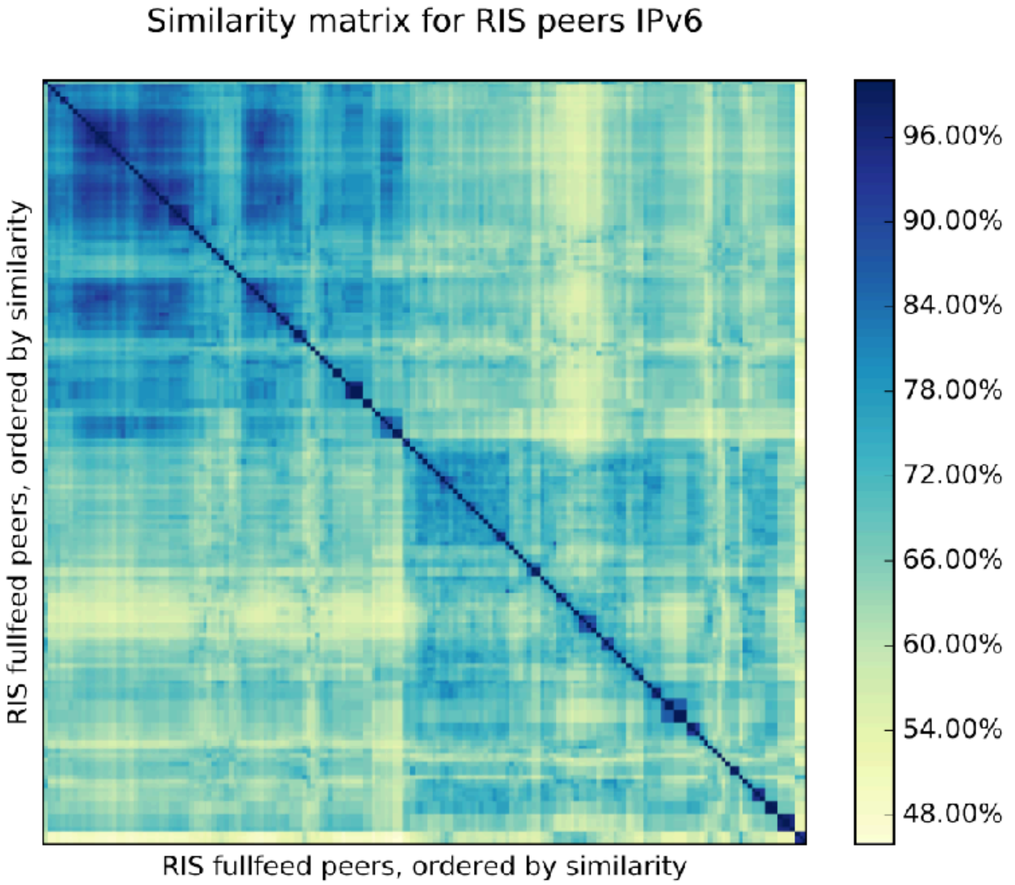
RIS Data

- Do we have redundancy in the data?
- Is RIS diverse enough?
  - And what does this mean for RIS Live, BGPlay?
- Current strategy: add route collectors at IXPs
  - Do we need a different strategy that provides more diversity?

- https://labs.ripe.net/Members/emileaben/how-diverse-is-ris

RIS Diversity

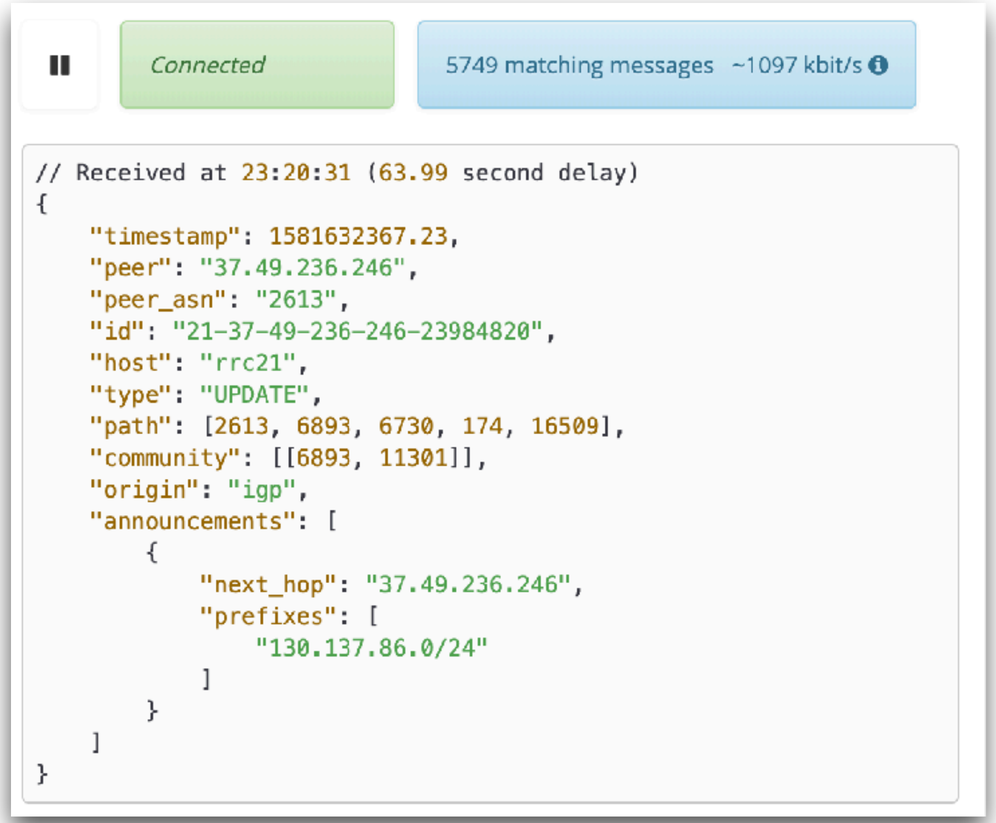




RIS Live

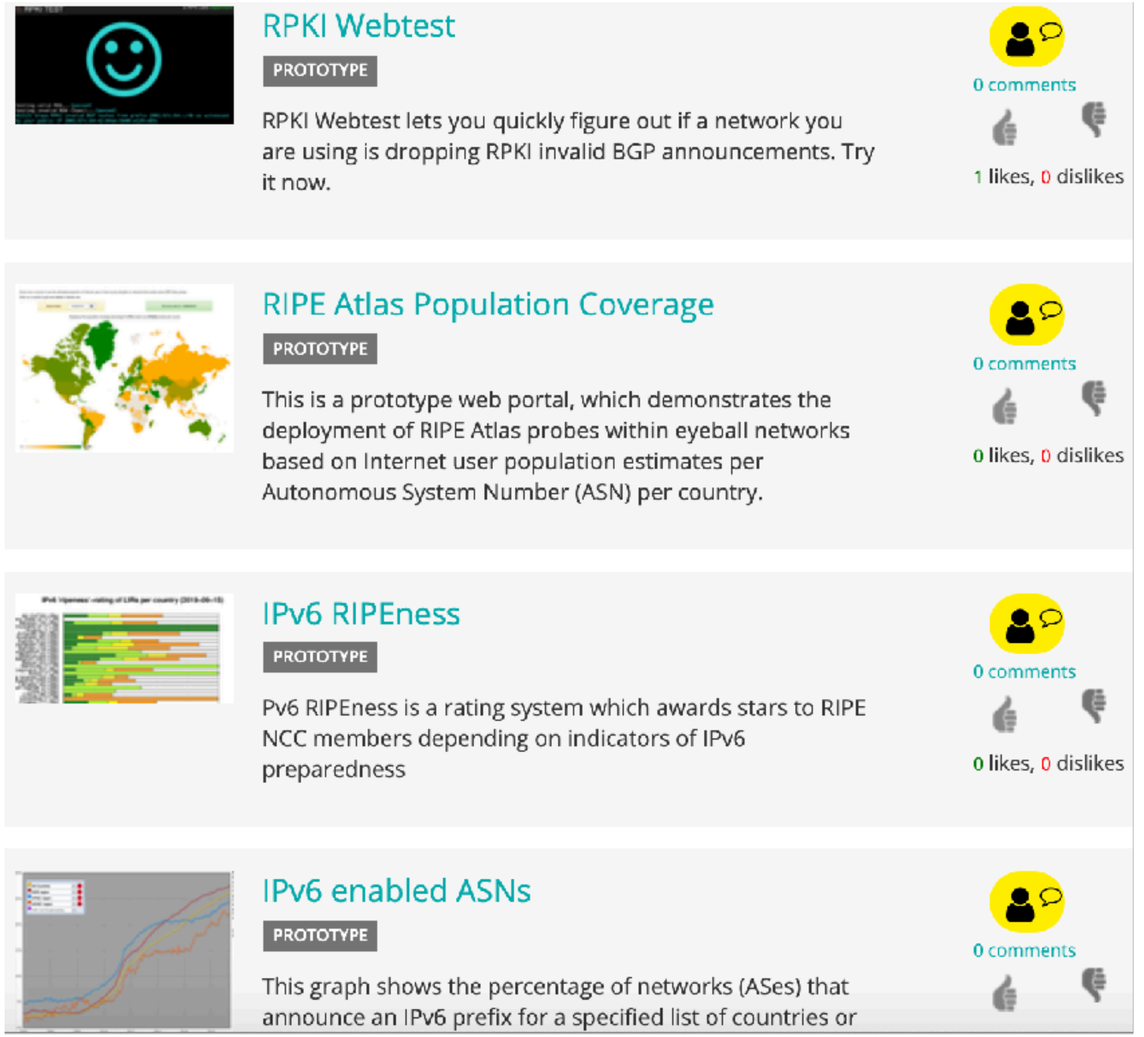
Stream BGP data in **real time**. Monitor and detect routing events anywhere in the world as those events occur

- Choose from a variety of filters to see whatever BGP messages are of interest to you
  - https://ris-live.ripe.net/



Other Tools and Visualisations

- We provide a host of other other prototype tools and visualisations supported by RIPE Atlas and RIS
- Detailed list available on RIPE Labs:
  - https://labs.ripe.net/tools



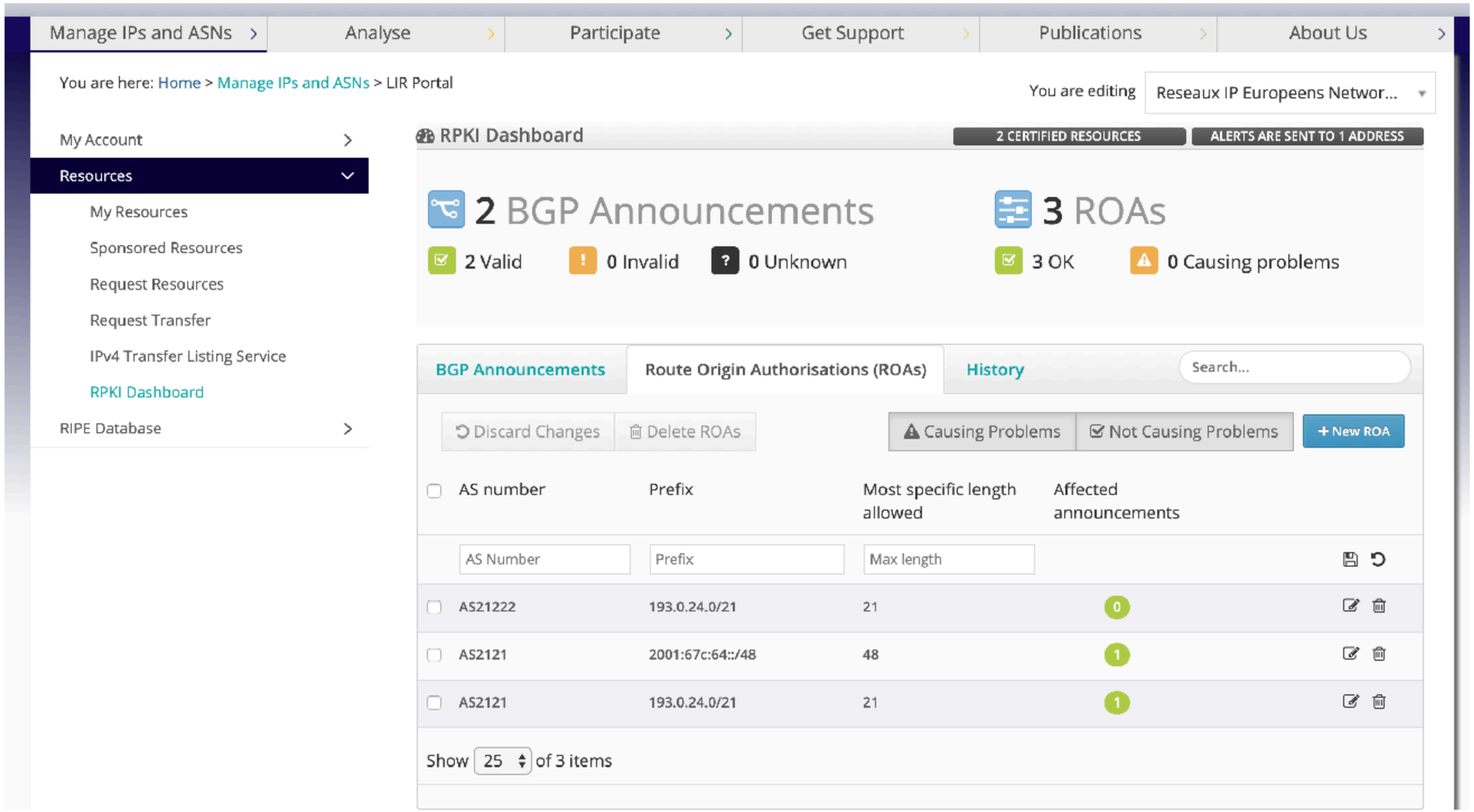
RPKI

RPKI in Your Region

Country	% Addreses	Accuracy
DK	**40%**	**100,0%**
NL	76%	99,9%
NO	43%	100,0%
SE	49%	100,0%
FI	69%	99,9%
DE	51%	99,9%
FR	77%	99,4%
BE	**24%**	**100%%**
IT	12%	99,9%

source: https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html

Sign Your ROAs Today!



Questions

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@RIPELabs
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