RIPE NCC Measurements and Tools Strategy

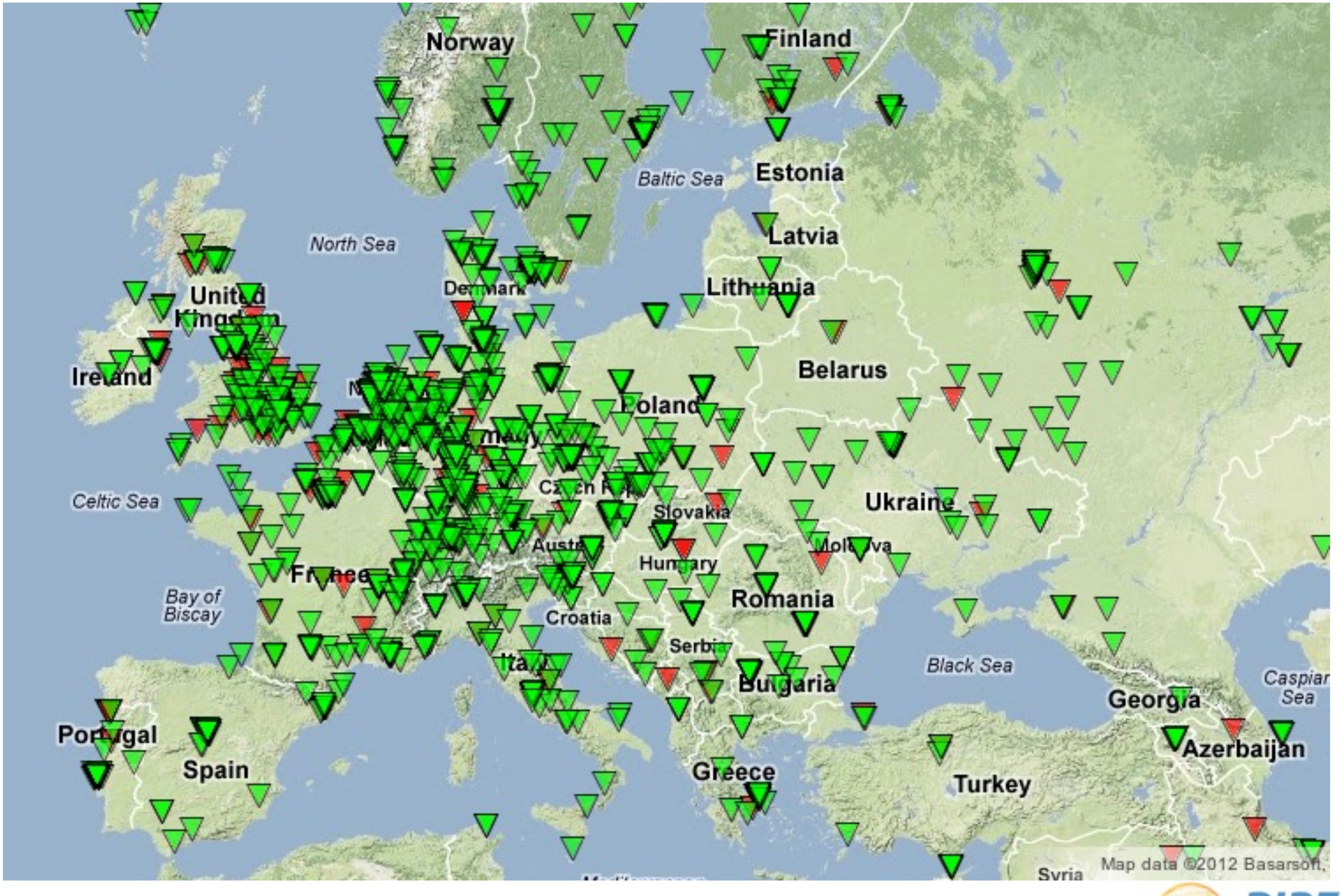
2012-09-27, RIPE65 MAT-WG

Science Division: MCB, GII, R&D

Measurements & Tools Strategy 2012-2013

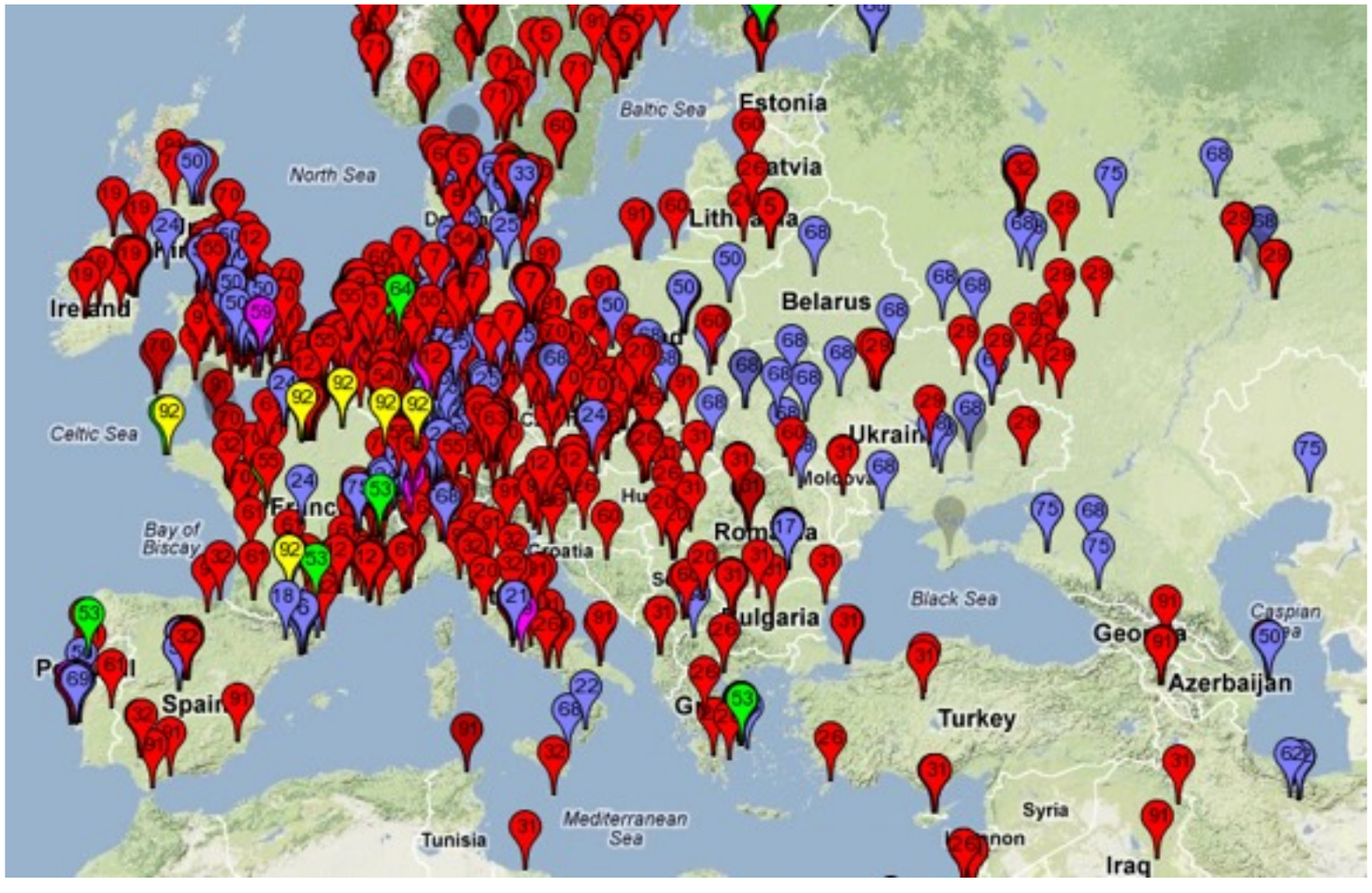
- Consolidate Measurements into
  - RIPE Atlas for active measurements
  - RIPE RIS for BGP measurements
- Consolidate Presentation into RIPEstat
- Add value for both Community and Membership

RIPE Atlas


Norway
Finland
Baltic Sea
Estonia
North Sea
Latvia
Lithuania
Belarus
Ireland
Poland
Celtic Sea
Ukraine
Slovakia
Hungary
Romania
Bay of Biscay
Croatia
Black Sea
Bulgaria
Georgia
Azerbaijan
Spain
Greece
Turkey
Map data ©2012 Basarsoft

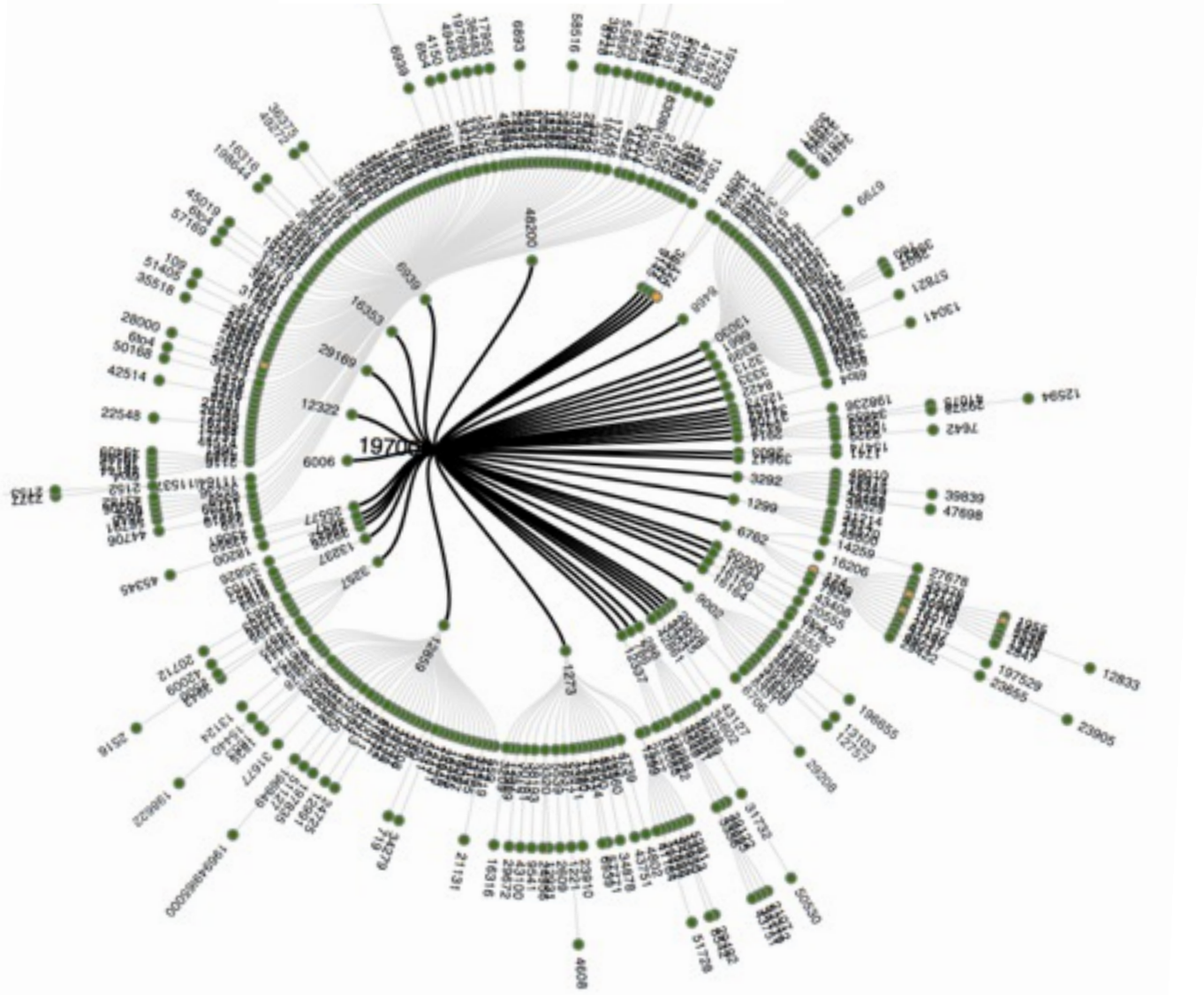
RIPE Atlas

- More Value for the Community:
  - New: DNS, SSL-Cert User Defined measurements



RIPE Atlas

- More Value for RIPE NCC Members:
  - User defined measurements available to **all** members
  - IPv6 Traceroute Measurements from 100s of probes



RIPE Atlas

- Introducing RIPE Atlas Anchors
  - powerful probe and well-known targets
    - pilot starting now
    - goal: ~50 deployed in 2013

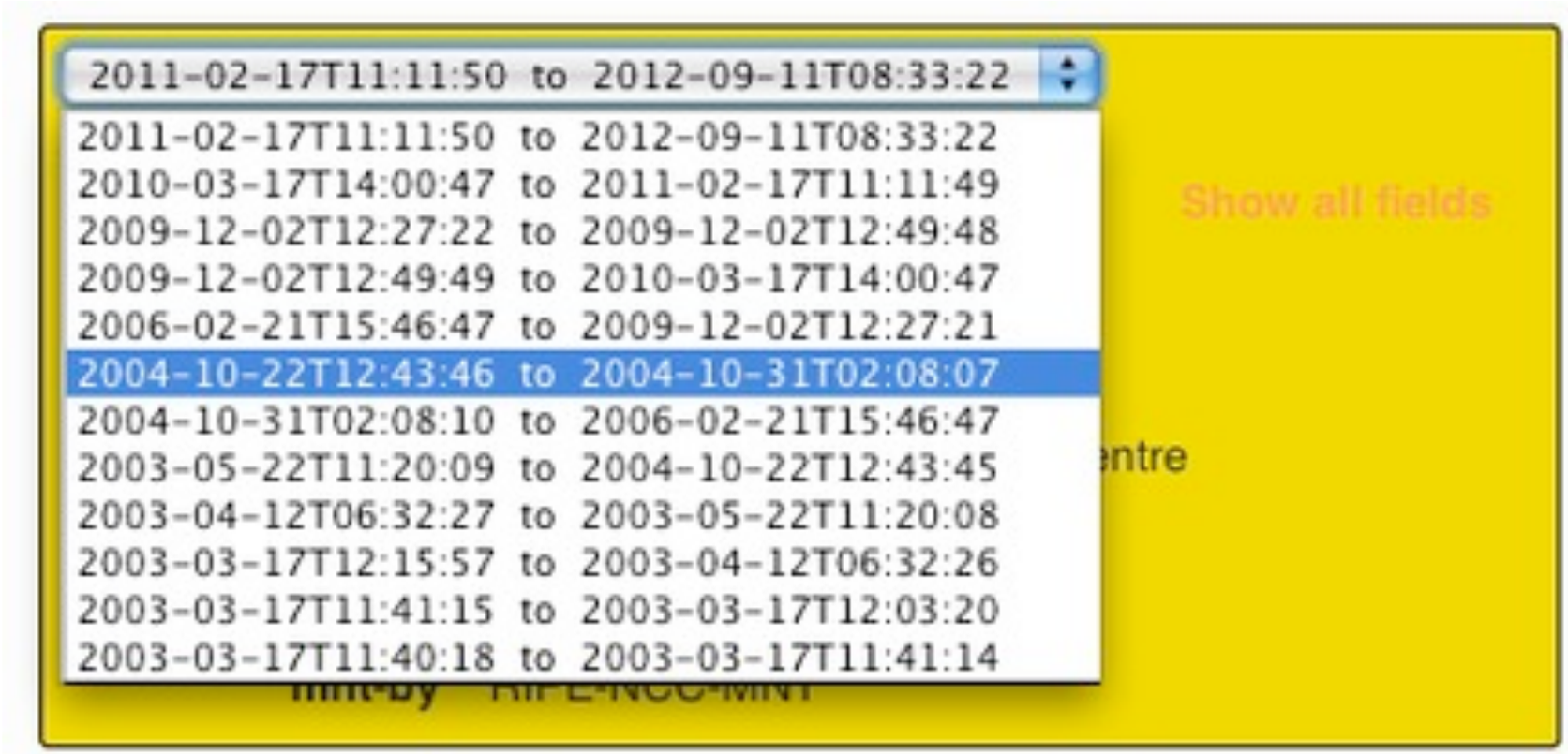
RIPEstat

192/8						12457	614	504	285	173	102	63	22	66	2	1								
193/8	10	9	15	25	45	4438	1473	985	272	156	127	26	14	110	17	5								
194/8	4	6	28	16	28	3155	1138	707	221	143	264	53	43	134	3									
195/8			14	14	20	1389	1604	542	52	14	454	63	55	127										
196/8						394	121	114	64	80	63	19	4	21	4	6								
197/8								26	6	21	30	22	8	15	4	6	10	1	2					
198/8						5202	782	423	249	200	88	51	24	86	9	8								
199/8						2903	666	1414	808	139	72	39	24	63	16	6			1					
200/8						854	157	97	198	343	223	56	38	17	2		1						1	
	/32	/31	/30	/29	/28	/27	/26	/25	/24	/23	/22	/21	/20	/19	/18	/17	/16	/15	/14	/13	/12	/11	/10	/9	/8

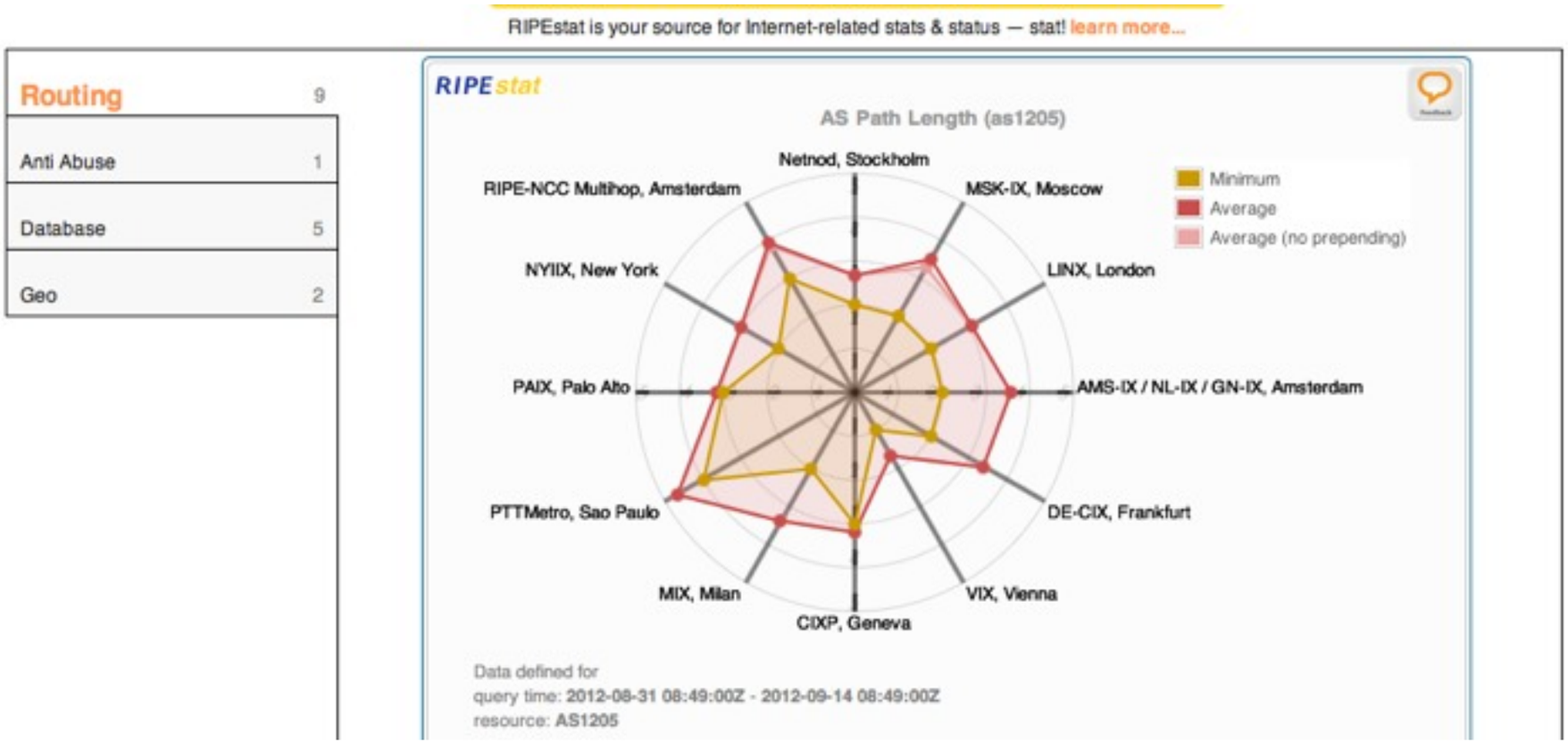
- More Value for the Community:
  - Consolidation: embeddable, data calls, performance
  - Prefix Size Distribution

RIPEstat

- More Value for RIPE NCC Members:
  - Better linked from LIR Portal
  - History demo in database object browser



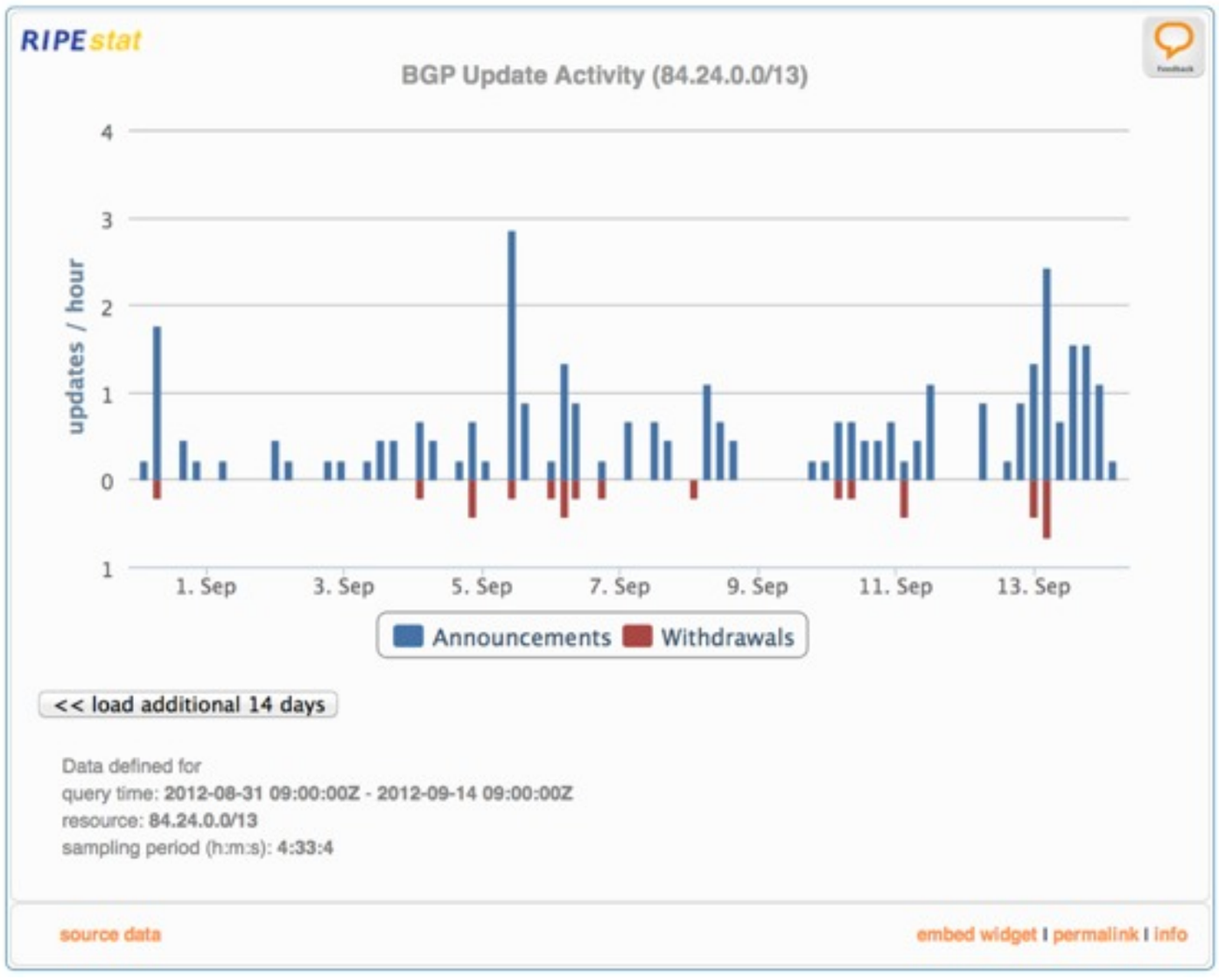
RIPEstat



- Plans:
  - Results easier to share
  - New tabbed layout

RIS: Routing Information Service

- Business as Usual
- User interface elements moving to RIPEstat !



TTM

- Continuing operation on user request
  - Many test boxes no longer maintainable
  - Back-end struggling hard
  - A drain of resources to keep running
  - Users not charged for 2012

- Most functionality will be in Atlas Anchors
- Proposal:
  - continue to operate with ‘best effort’ service level
  - terminate Q2/2013

dnsmon

- Business as usual
  - small outages caused by aging TTM back-end
- Will be moved to membership service in 2013
  - current users will have to become members
  - opening to all members in second half 2013
  - focus on TLDs and similar
- Plans:
  - Integration with RIPE Atlas
  - Presentation in RIPEstat

All this and more on RIPE Labs!

1 comment

IPv4: Business As Usual

Daniel Karrenberg — May 29, 2012 05:00 PM

In anticipation of reaching the last /8 of IPv4 addresses in the RIPE NCC service region, we have been looking at the number of IPv4 addresses the RIPE NCC handed out over the last four years. The curves look surprisingly uniform.

0 comments

World IPv6 Launch - Lasting Effect on Content

Emile Aben — Jul 23, 2012 03:30 PM

Now that World IPv6 Launch is weeks behind us it's interesting to look at what long-lasting effects it had.

Tags: statistics, measurements, ipv6launch

» Read more

0 comments

Internet Traffic After First Round of Euro 2012 Matches

Fergal Cunningham — Jun 15, 2012 03:10 PM

In this article we show some interesting traffic graphs seen at IXPs during the first round of matches.

Tags: World IPv6 Launch - Results from HTTP Measurements

Rene Wilhelm — Aug 23, 2012 09:55 AM

Filed under: measurements, ipv6launch, ipv6

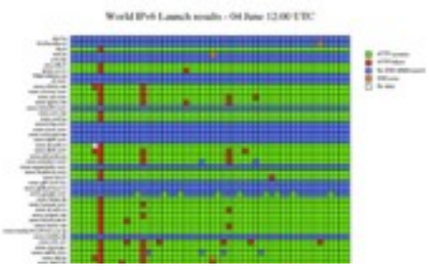
3 tweets

retweet

For World IPv6 Launch the RIPE NCC measured 60 selected participants from over 50 vantage points all over the world. In this article we present the DNS and HTTP measurement results from a 4-day period as a 3 minute movie. We will discuss general observations and look at some specific events.

Introduction

In a previous article we described the measurements the RIPE NCC performed for World IPv6 Launch. With ping and traceroute we measured performance and reachability on the network layer. On the application layer we measured availability of HTTP service, over both IPv4 and IPv6. These results are visualised in dashboards, for each IP version a matrix which shows the outcome of the latest HTTP measurements from each vantage point to each measured participant (you can click on the images to get a bigger version).



0 comments

First Measurement Resu Launch

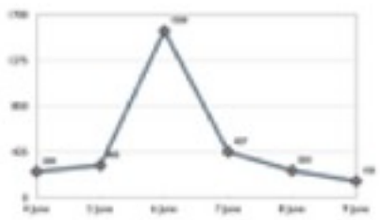
Mirjam Küh

Tags: ipv6launch, ipv6

0 comments

World I Studies

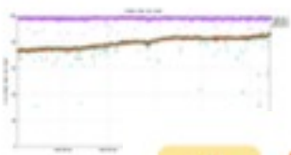
Ann Barcomb



0 comments

De-bogonising 128.0.0.0/16

Kjell Leknes — Jun 15, 2012 10:06 AM



Please find below an update of our effort to help network operators clean-up redundant settings with respect to 128.0.0.0/16

Tags: routin

offere
looks

0 comments

A Use Case for IPv6 Reachability Testing with RIPE Atlas

Vesna Manojlovic — Jul 03, 2012 12:55 PM

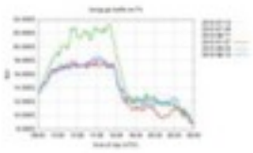
RIPE Atlas was used to perform IPv6 reachability test
IPv6 Launch. O
usage statistics
that this feature
even after the "launch" is over.

Tags: atlas

3 comments

Internet Traffic During the 2012 Olympics

Fergal Cunningham — Sep 04, 2012 11:45 AM



Following on from the European Championship earlier this year, we looked at changes in Internet traffic volume at
In
O
IX

Tags: ixp, statistics

5 comments

Internet Traffic During the European Championship 2012

Fergal Cunningham — Jun 08, 2012 04:05 PM

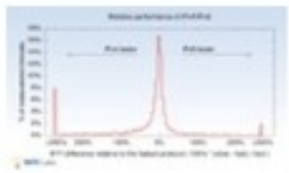
The European Footba
the third most watche
the world (after the W
Olympics). Euro 2012
Poland and Ukraine f
teaming up with Euro
Internet Exchange Po
look at Internet Excha
during the tournament.

Tags: ixp, statistics

0 comments

Measuring World IPv6 Launch - Comparing IPv4 and IPv6 Perforr

Emile Aben — Jun 21, 2012 04:50 PM



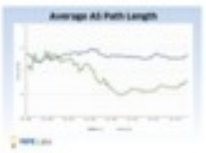
Following on from last year's during
IPv6 Day, we again looked at relative performance of IPv4 and IPv6 from the measurements we conducted. In this article we describe the methodology and the show the results of these measurements.

» Read more

0 comments

Update on AS Path Lengths Over Time

Mirjam Kühne — Sep 10, 2012 09:05 AM



One way to determine the denseness of the Internet, or its "interconnectedness", is to look at the path length between Autonomous Systems (ASes). A while ago we looked at that and also at differences between IPv4 and IPv6 networks. Has this changed in the meantime? See our findings below.

Tags: routing

» Read more

Questions?