



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Measurement Data Country View SEE

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Stats, stats, stats!



- Statistics are important
 - They help shaping informed business decision, influence regulatory policies, etc.
- We provide a large measurement platform
 - RIPE Atlas (<https://atlas.ripe.net>)
 - Routing Information System (<http://ris.ripe.net>)
- Statistics based on those measurements
 - RIPEstat (<https://stat.ripe.net>)
- All data is publicly available



SEE Region

A Statistical View

SEE Region



SEE Region



http://www.amcharts.com/visited_countries/#AL,BA,BG,GR,HR,ME,MK,RO,RS,SI,XK

SEE Region



0.75 million sq. km land area



http://www.amcharts.com/visited_countries/#AL,BA,BG,GR,HR,ME,MK,RO,RS,SI,XK

SEE Region



**0.75 million sq. km land area
~2.3% of RIPE NCC region**

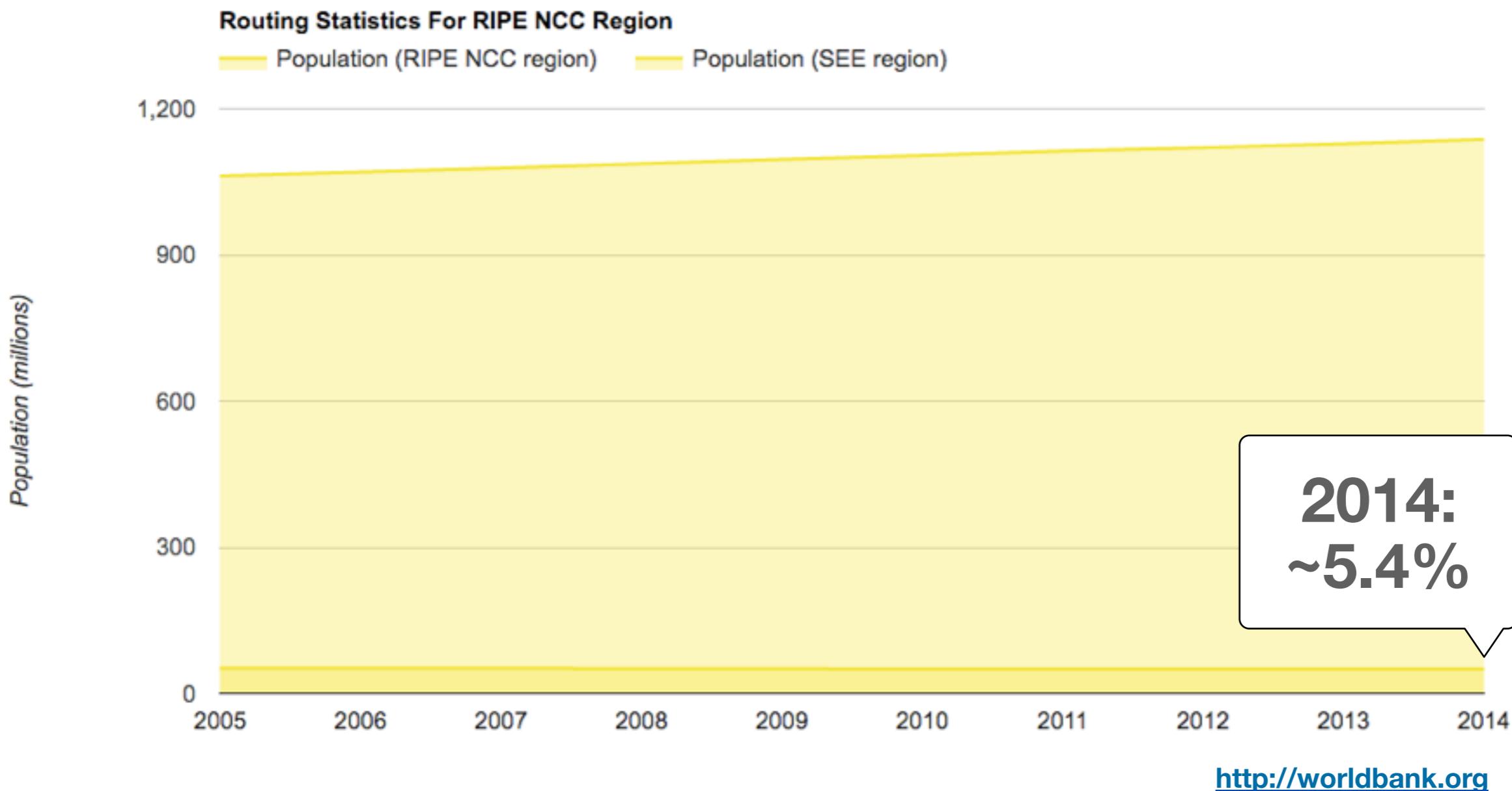


http://www.amcharts.com/visited_countries/#AL,BA,BG,GR,HR,ME,MK,RO,RS,SI,XK

SEE Region



- Population





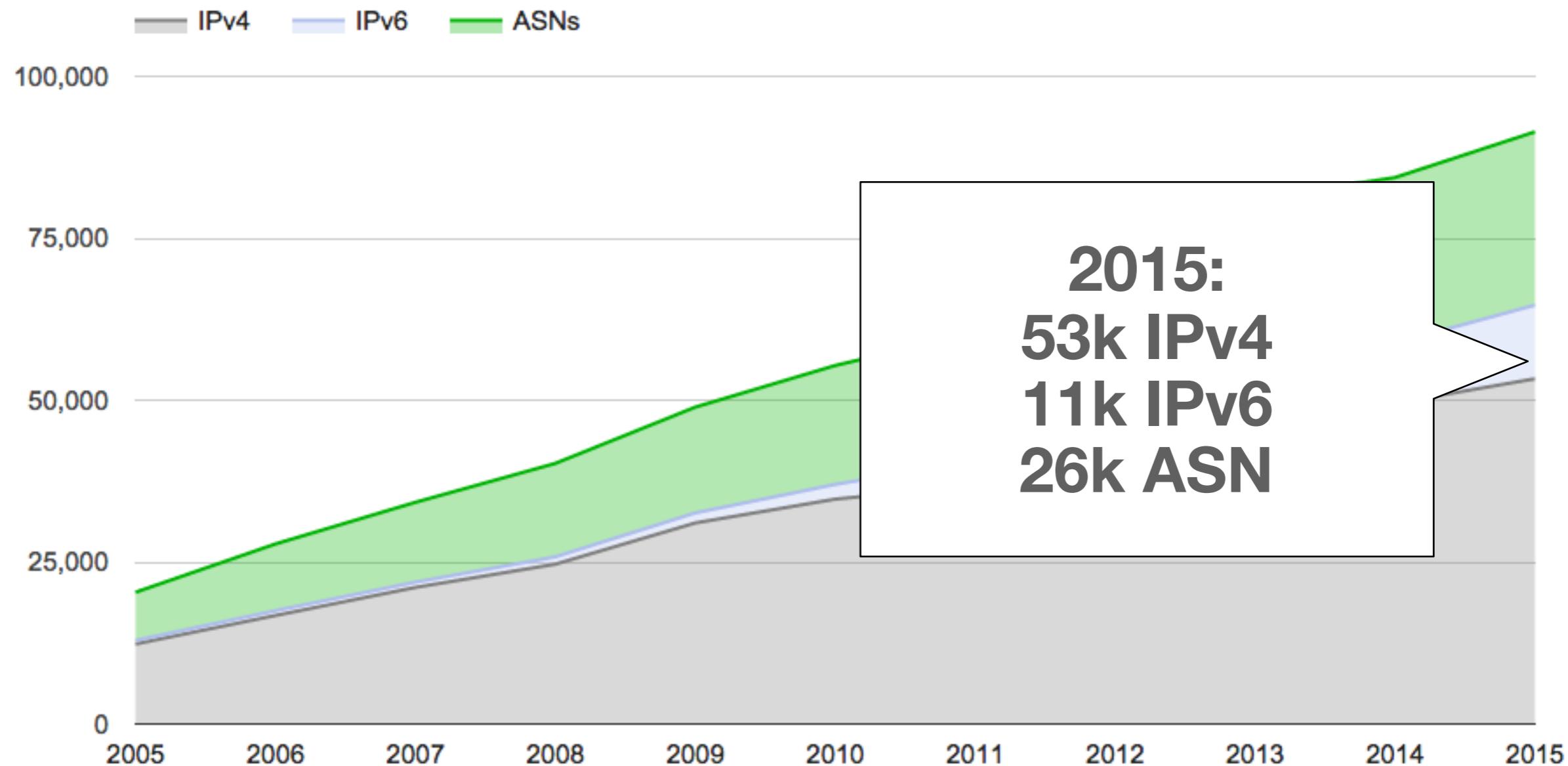
Registration Data

A RIPE DB based View

Registration Data



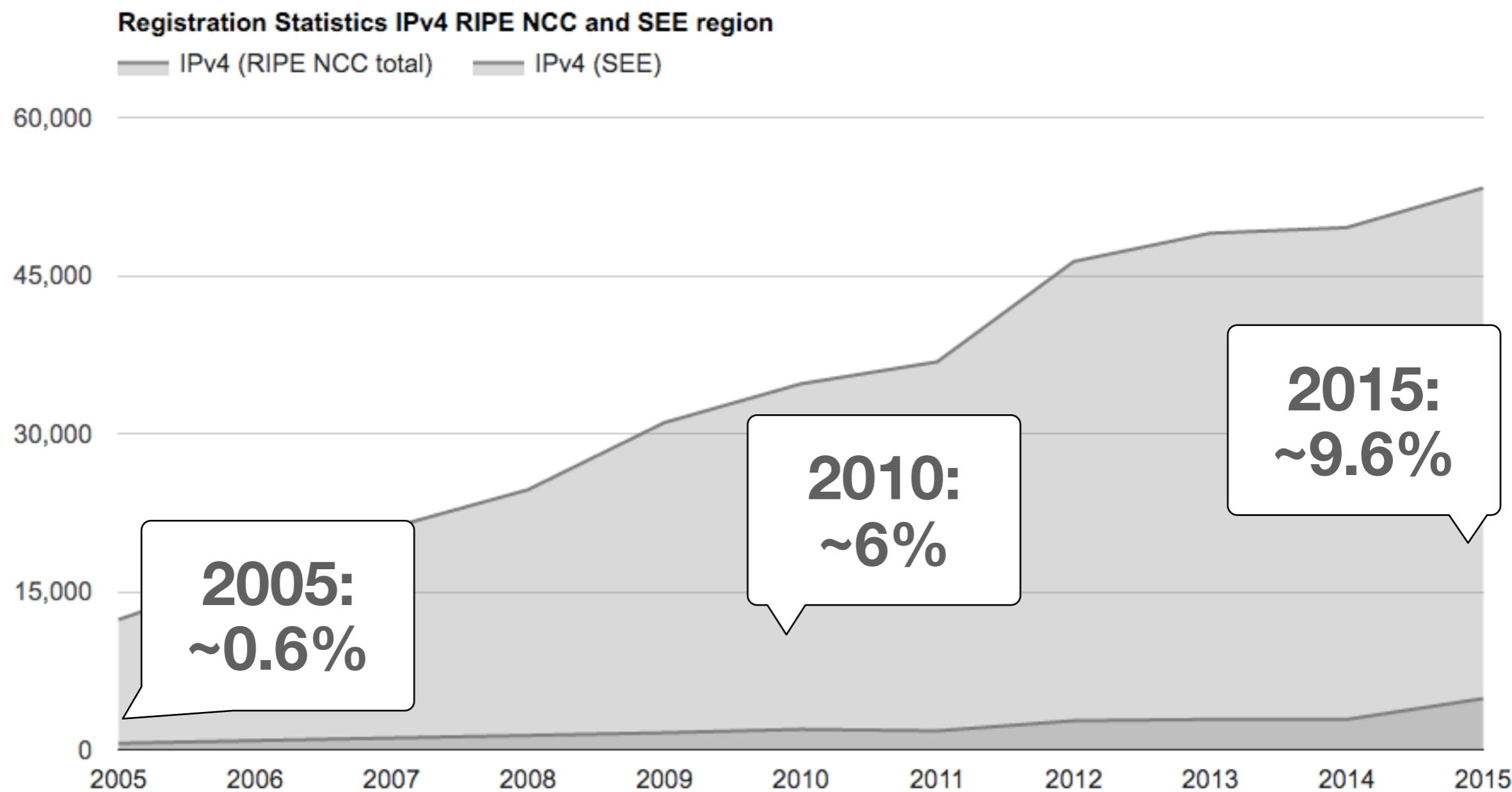
- Registered resources in the RIPE NCC region



Registration Data



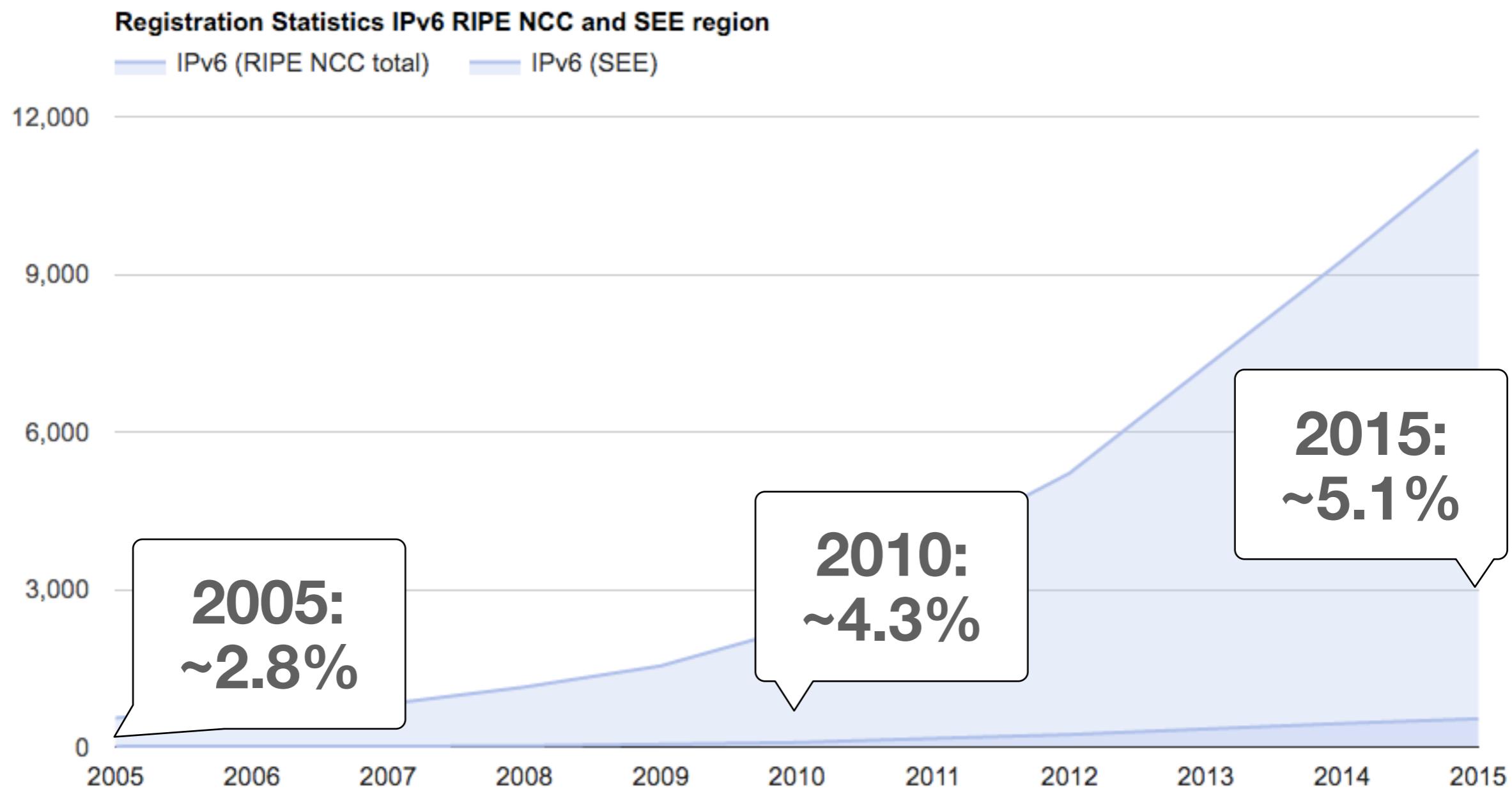
- Registered IPv4 resources (RIPE NCC/SEE)



SEE Region



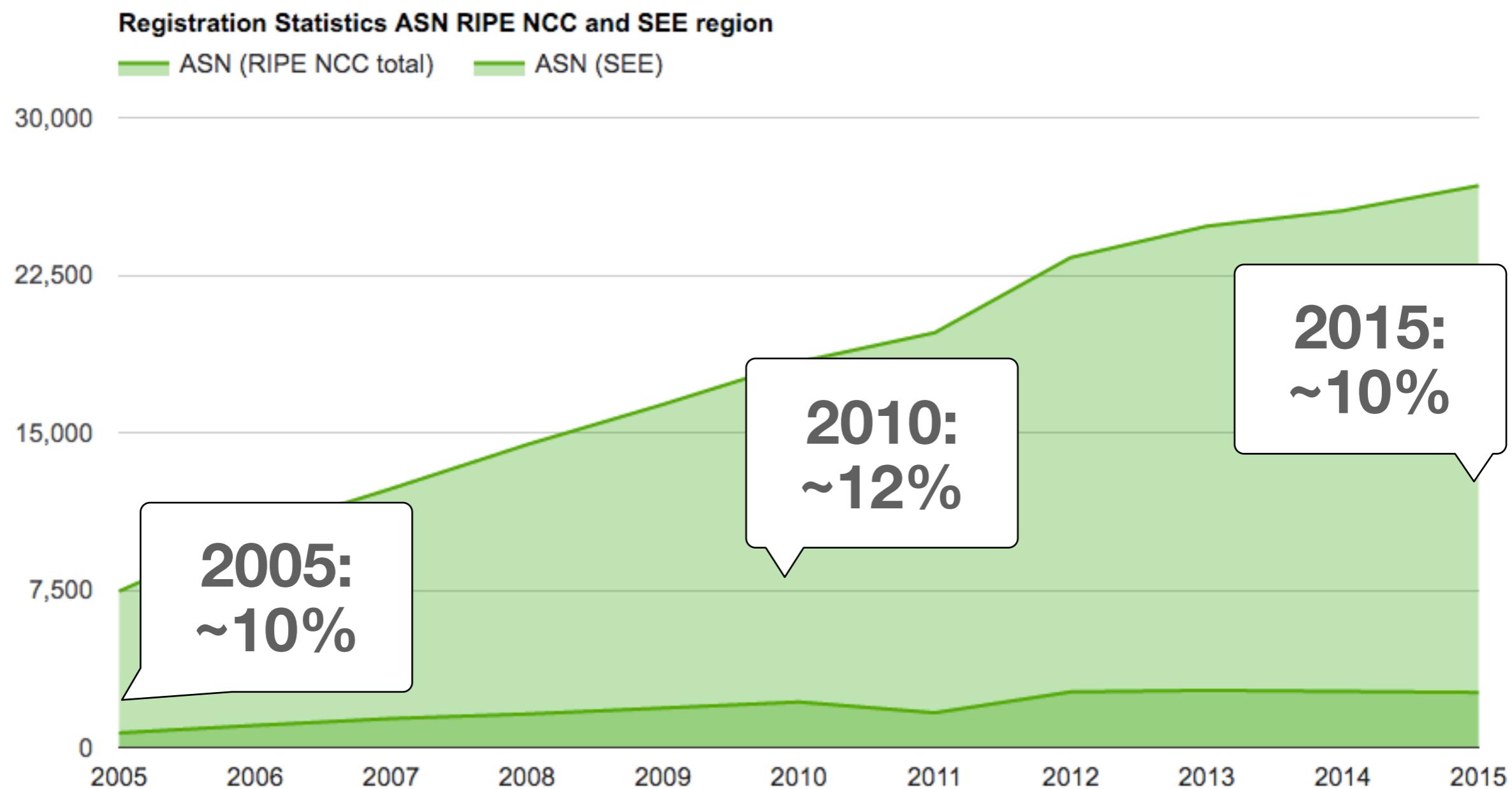
- Registered IPv6 resources (RIPE NCC/SEE)



Registration Data



- Registered ASN resources (RIPE NCC/SEE)





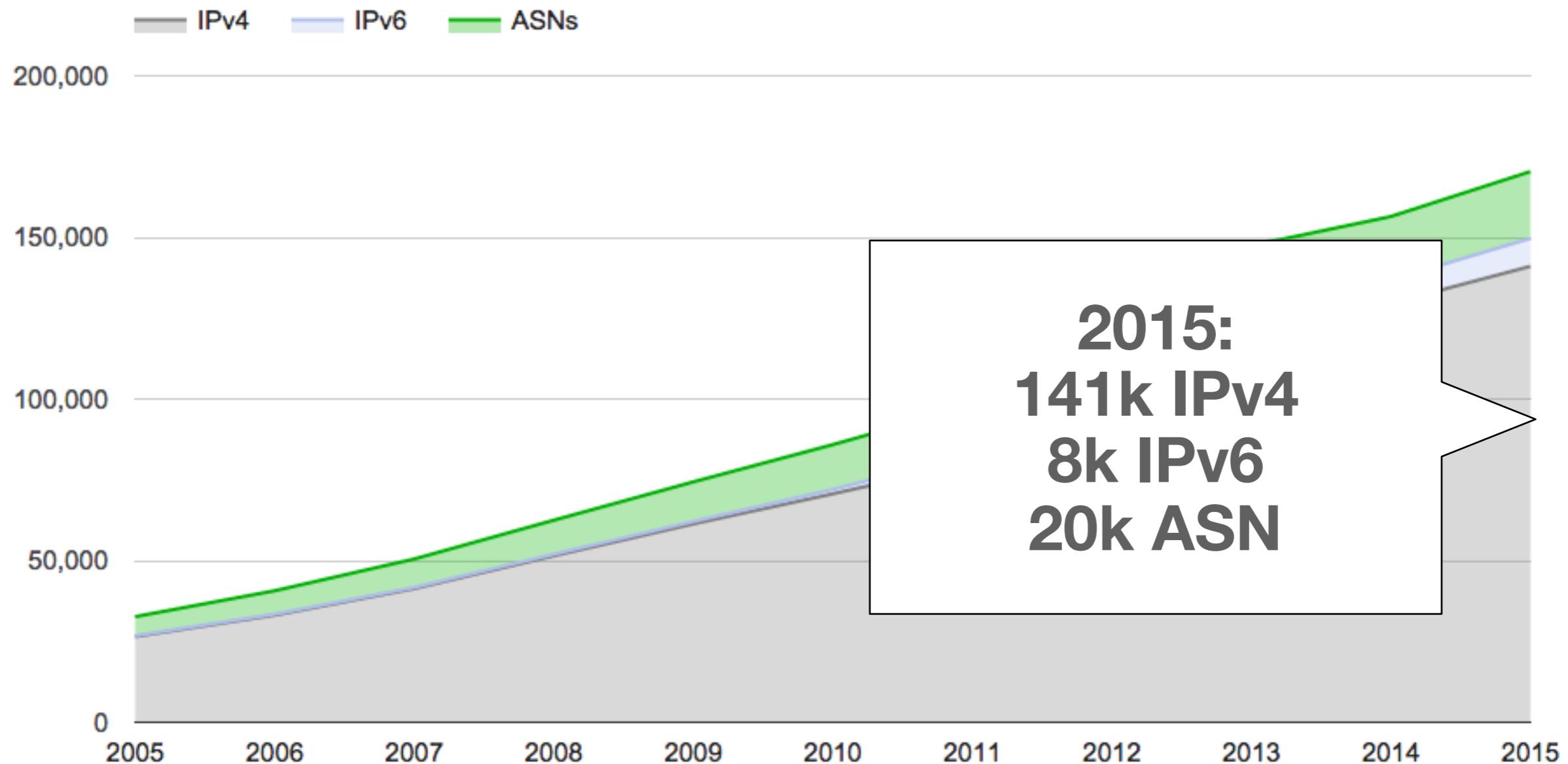
Routing Data

RIS based View

Routing Data



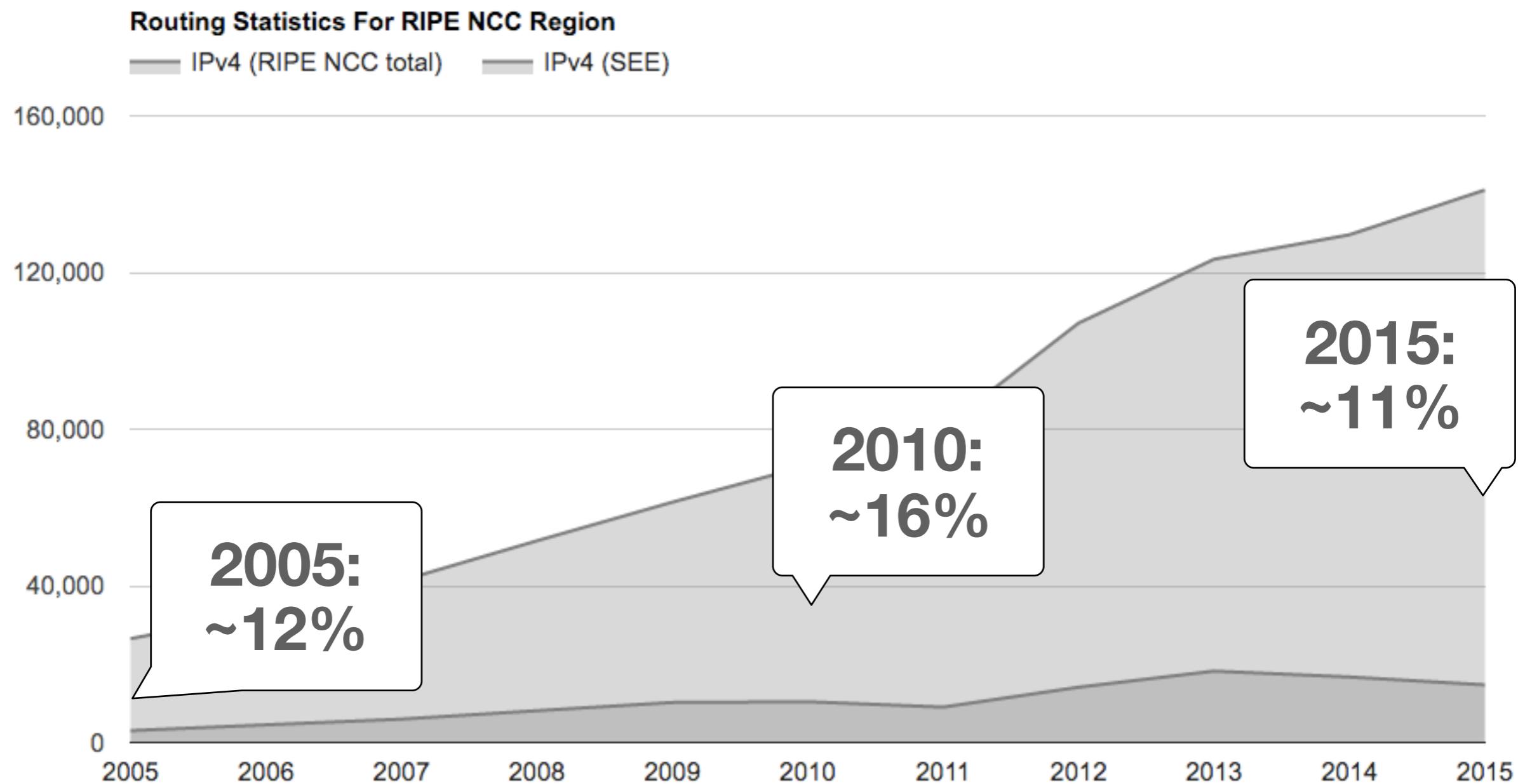
- Routed resources in the RIPE NCC region



Routing Data



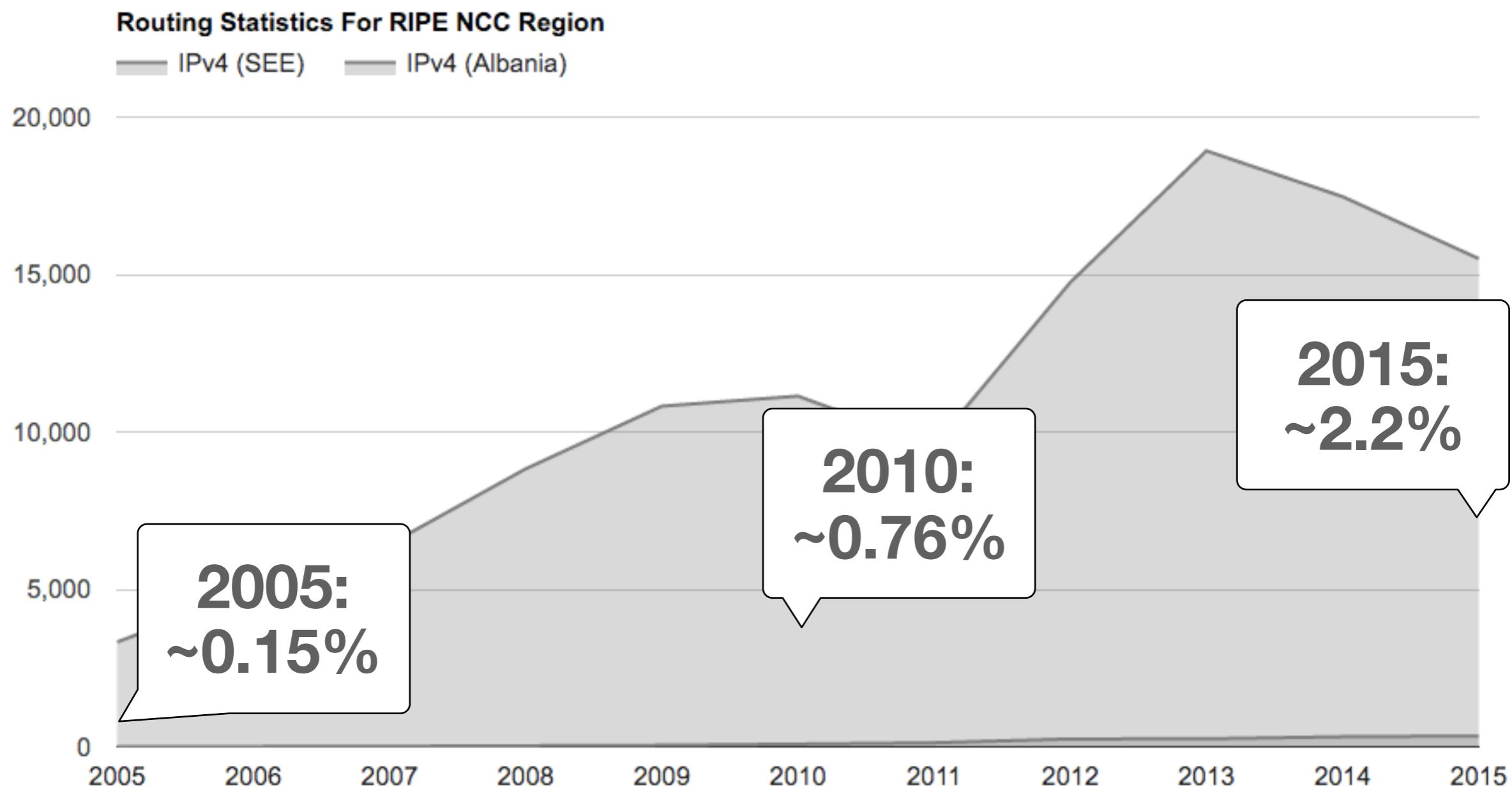
- Routed IPv4 prefixes (RIPE NCC/SEE)



Routing Data



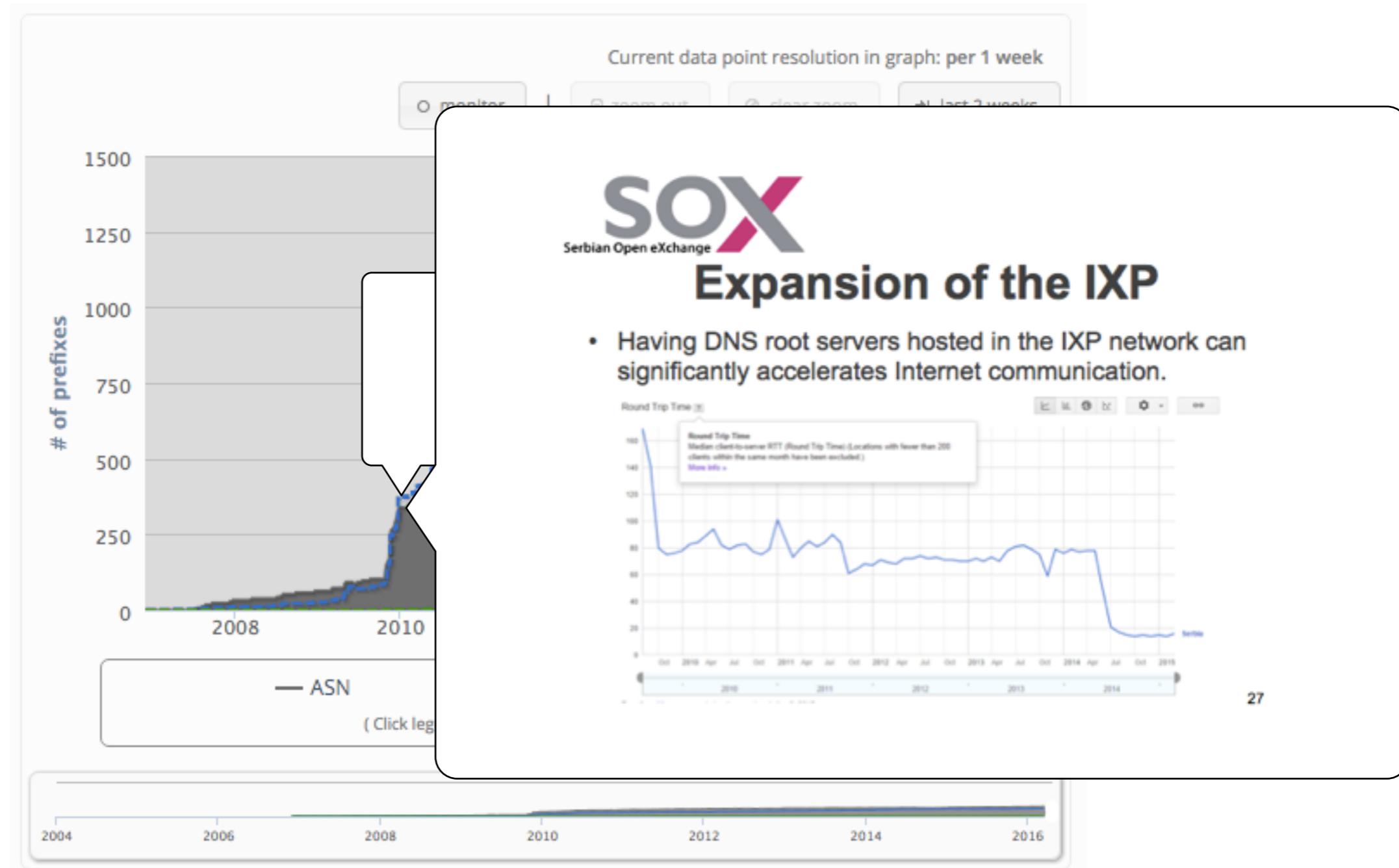
- Routed IPv4 prefixes (SEE/Albania)



Routing Data



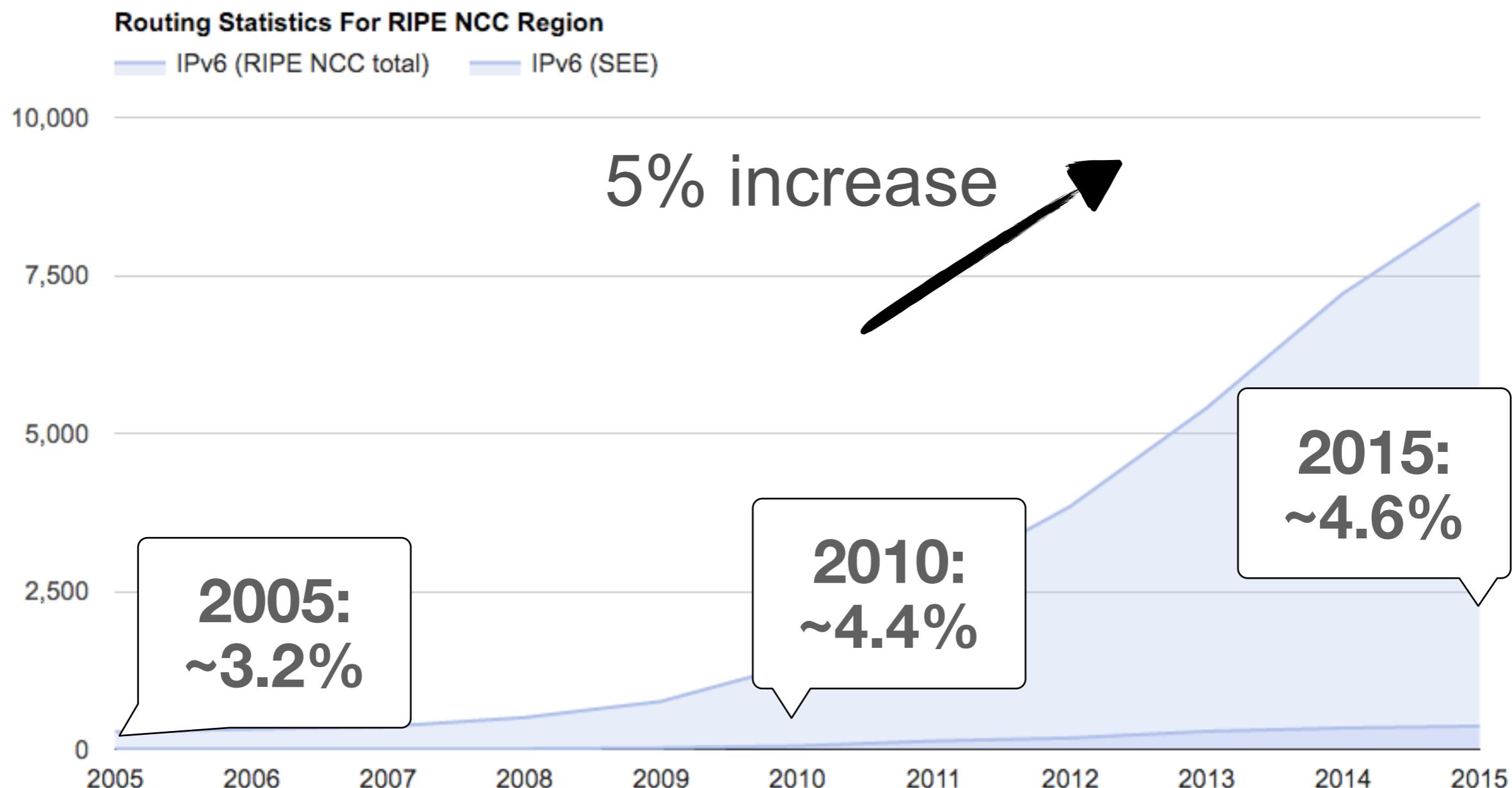
- The Uptake of IPv4 in Serbia



Routing Data



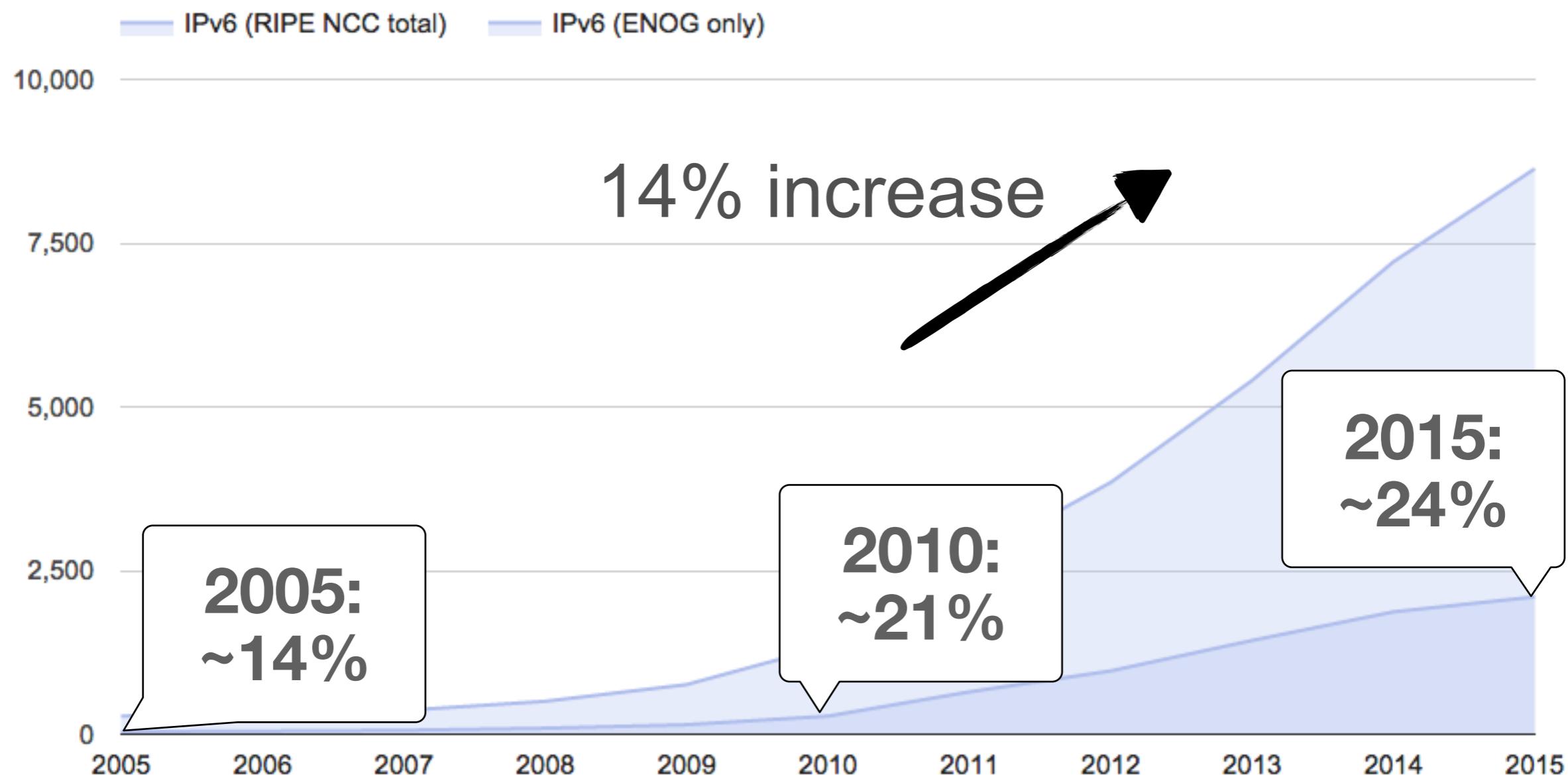
- Routed IPv6 prefixes (RIPE NCC/SEE)



Routing Data



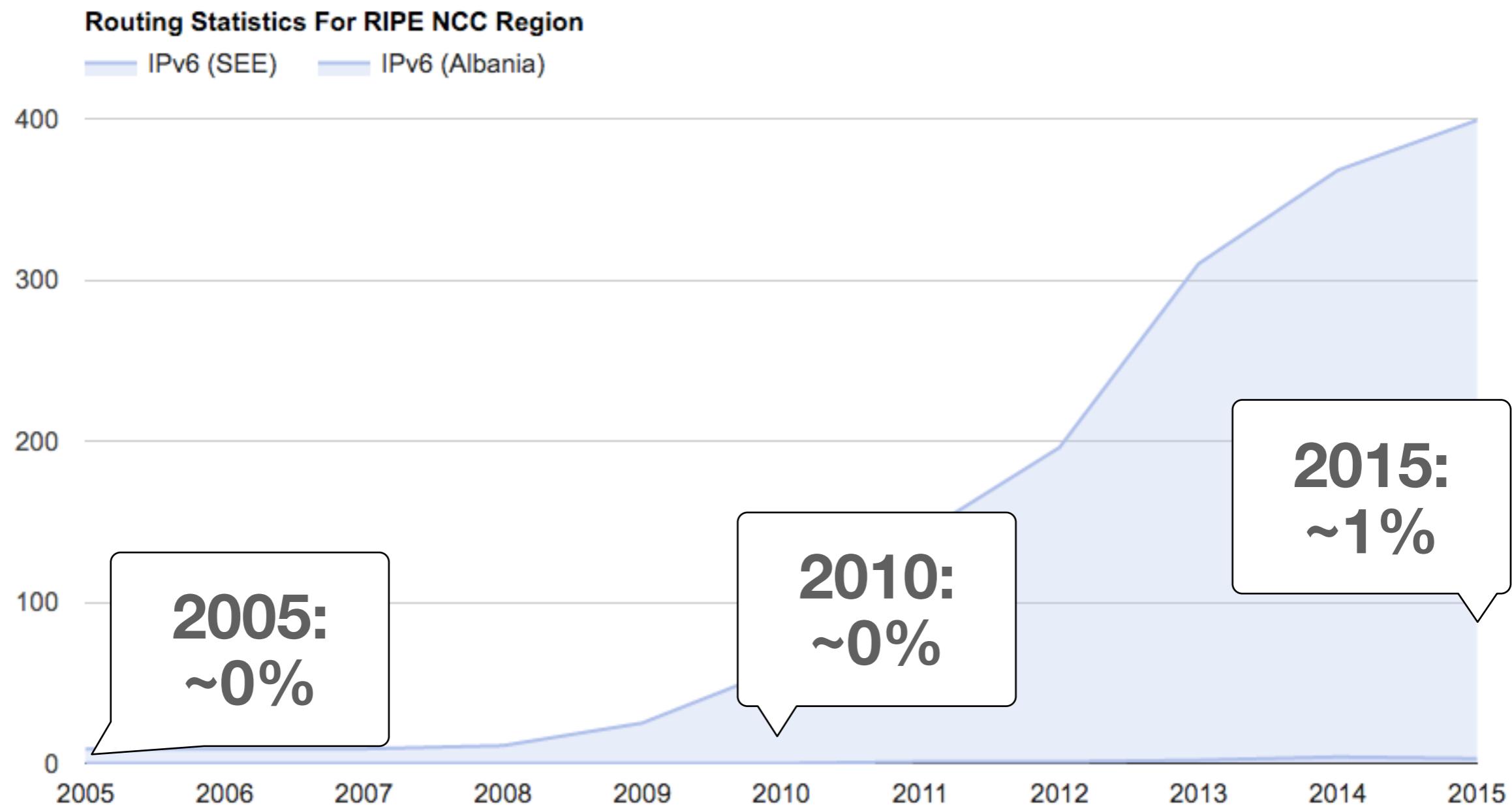
- Routed IPv6 prefixes (RIPE NCC/ENOG)



Routing Data



- Routed IPv6 prefixes (SEE/Albania)



IPv6 Capabilities



CC	Country	IPv6 Capable	IPv6 Preferred	Samples
BE	Belgium, Western Europe, Europe	50.96%	48.67%	2420742
US	United States of America, Northern America, Americas	29.96%	27.17%	92000204
CH	Switzerland, Western Europe			
PT	Portugal, Southern Europe			
GR	Greece, Southern Europe			
DE	Germany, Western Europe			
PE	Peru, South America			
LU	Luxembourg, Western Europe			
EE	Estonia, Northern Europe			
EC	Ecuador, South America			
JP	Japan, Eastern Asia			

Median for region:
RIPE NCC = 0.11%
SEE = 0.11%

Median for region:
RIPE NCC = 0.11%
SEE = 0.11%

IPv6 Capable &
Preferred:
Albania = 0.0%

IPv6 Capable &
Preferred:
Greece = 23.72%

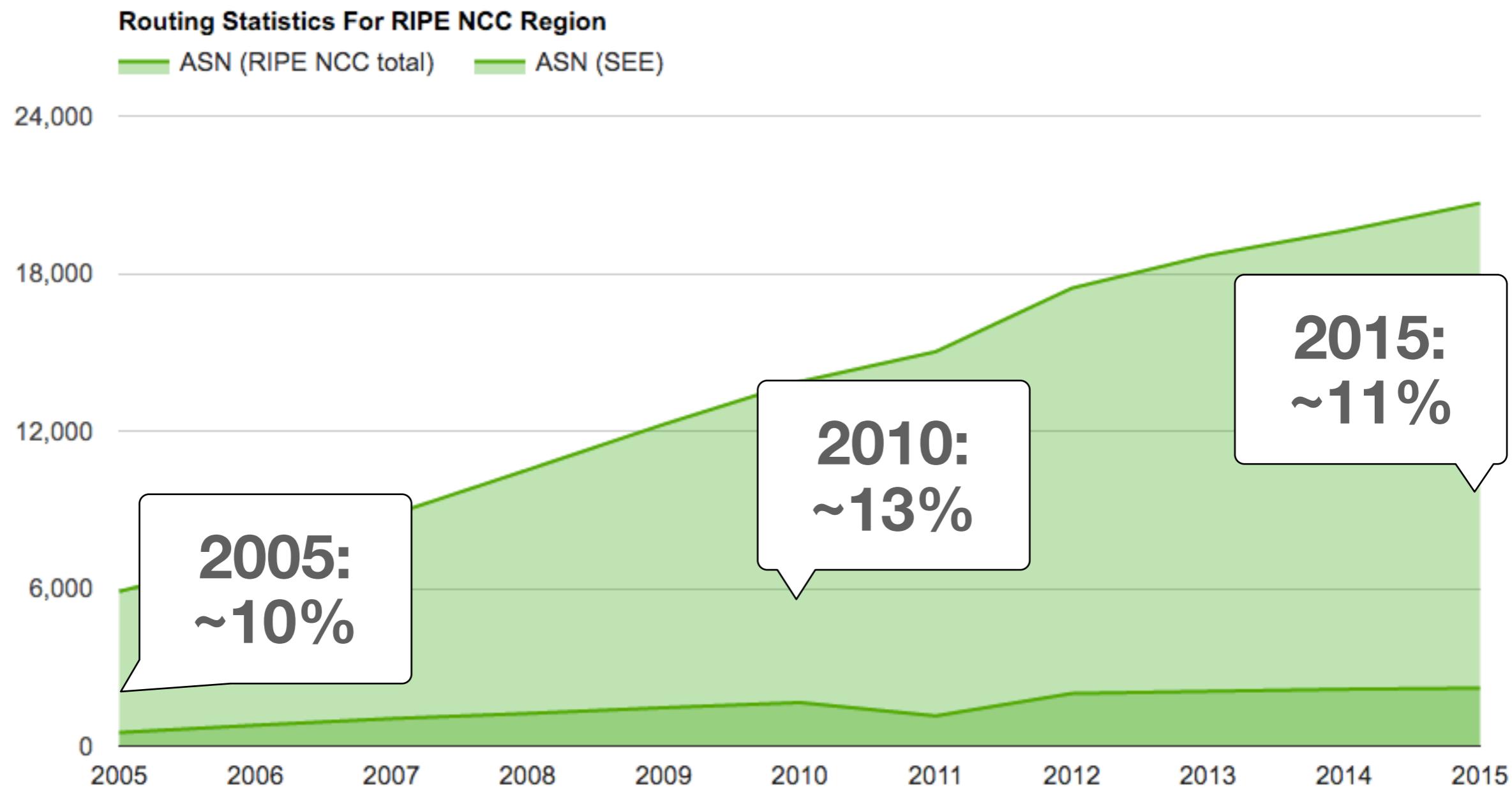
12.58%	11.03%	6606578
11.69%	10.89%	930136
11.51%	10.67%	1058238
11.19%	10.80%	679912
9.80%	9.04%	3911232
9.61%	9.00%	7564572
9.53%	9.03%	8173531
8.53%	8.06%	1394293
8.21%	5.43%	3582851

<http://stats.labs.apnic.net/ipv6>

Routing Data



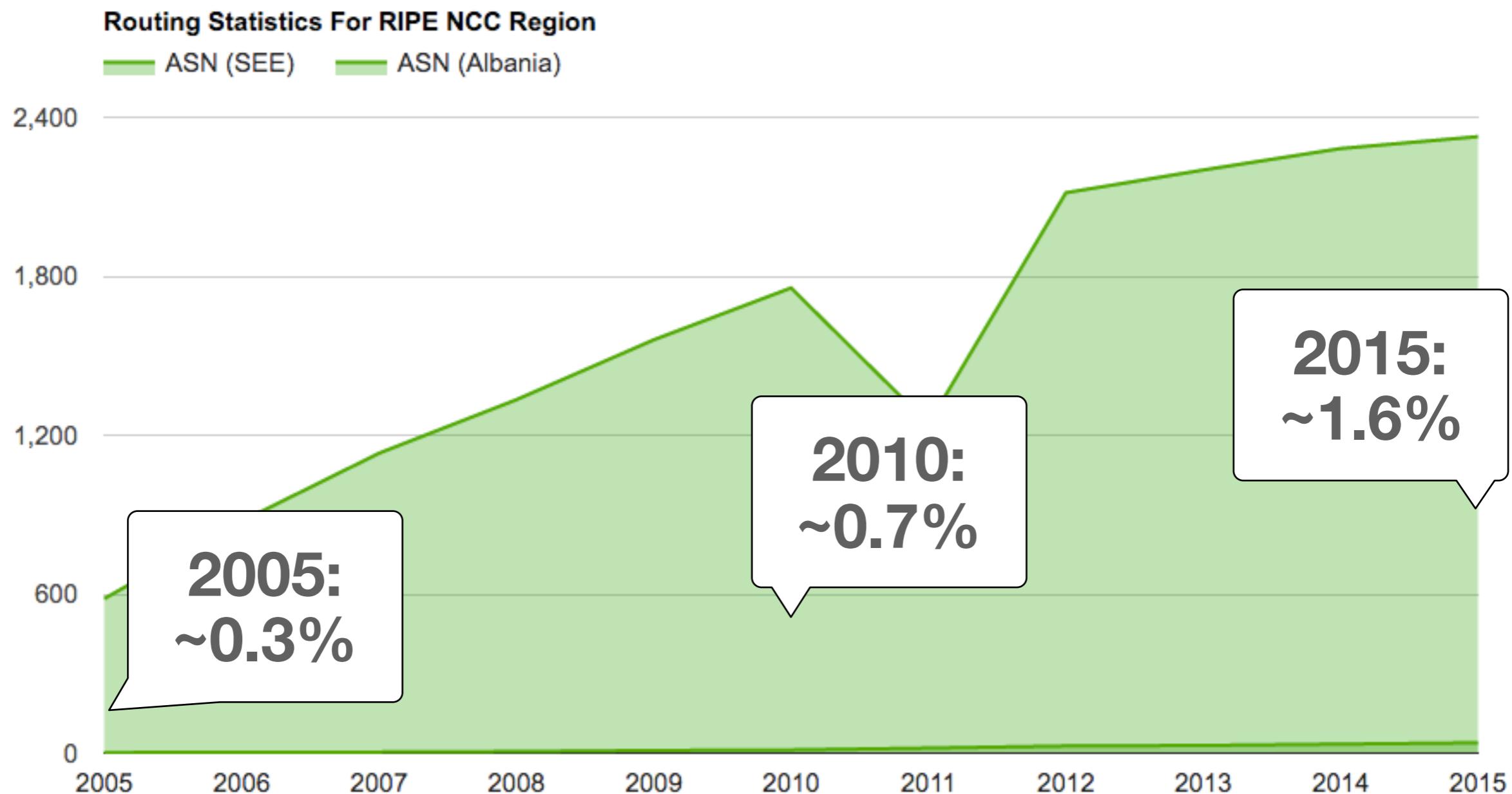
- Routed ASNs (RIPE NCC/SEE)



Routing Data

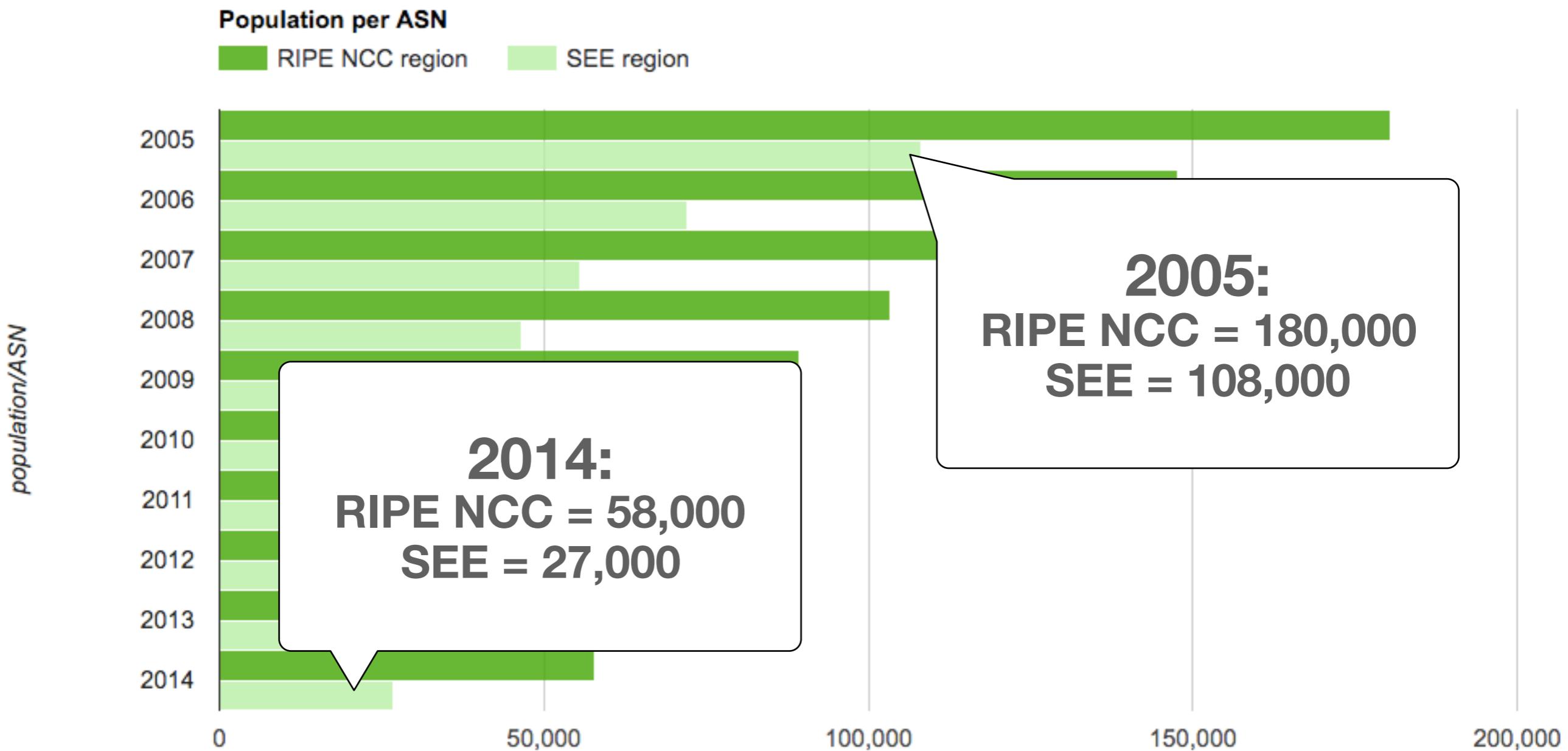


- Routed ASNs (SEE/Albania)



Routing Data

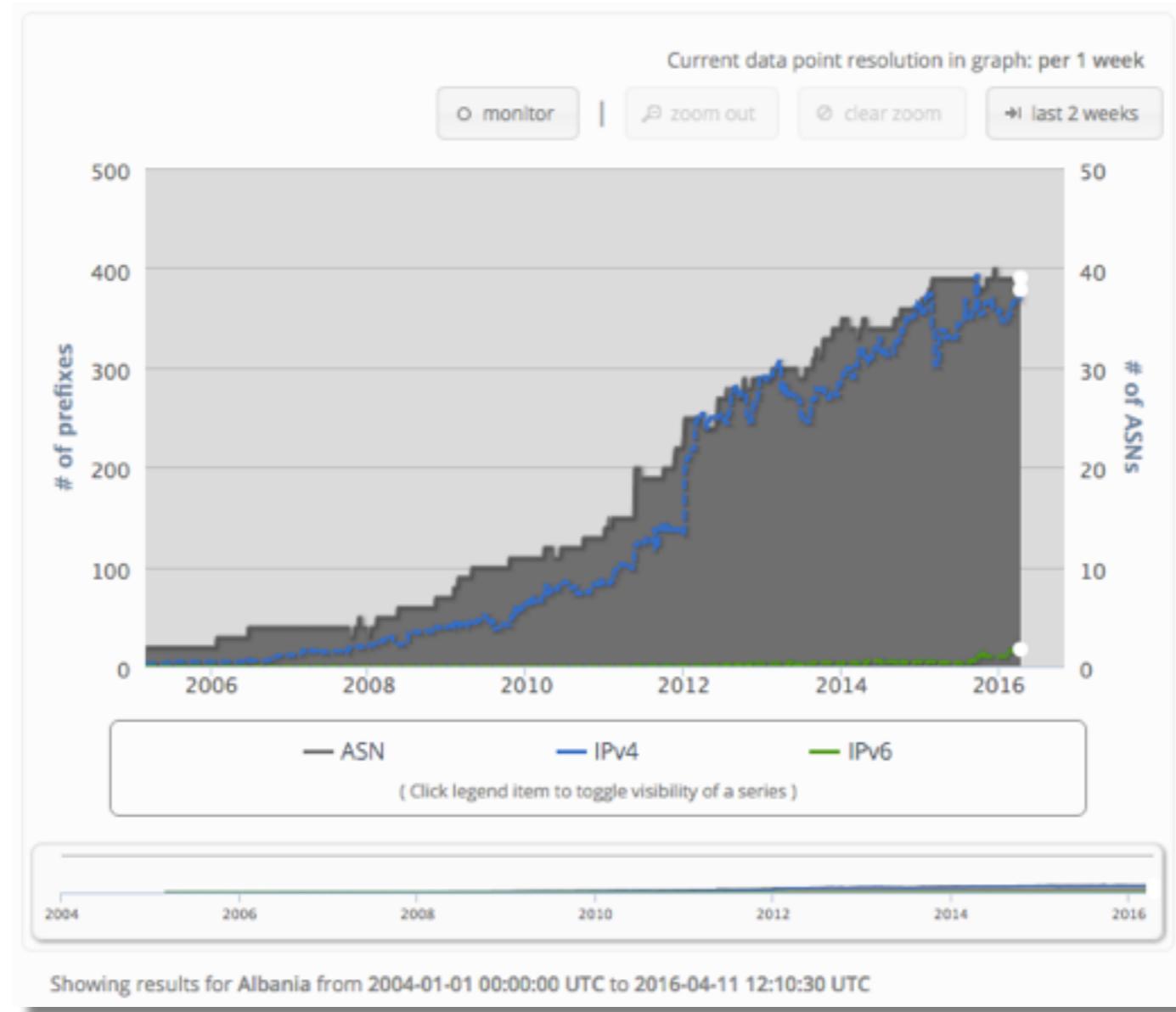
- Routed ASNs and population (people/ASN)



Albania's Internet Resources



- Look it up on stat.ripe.net



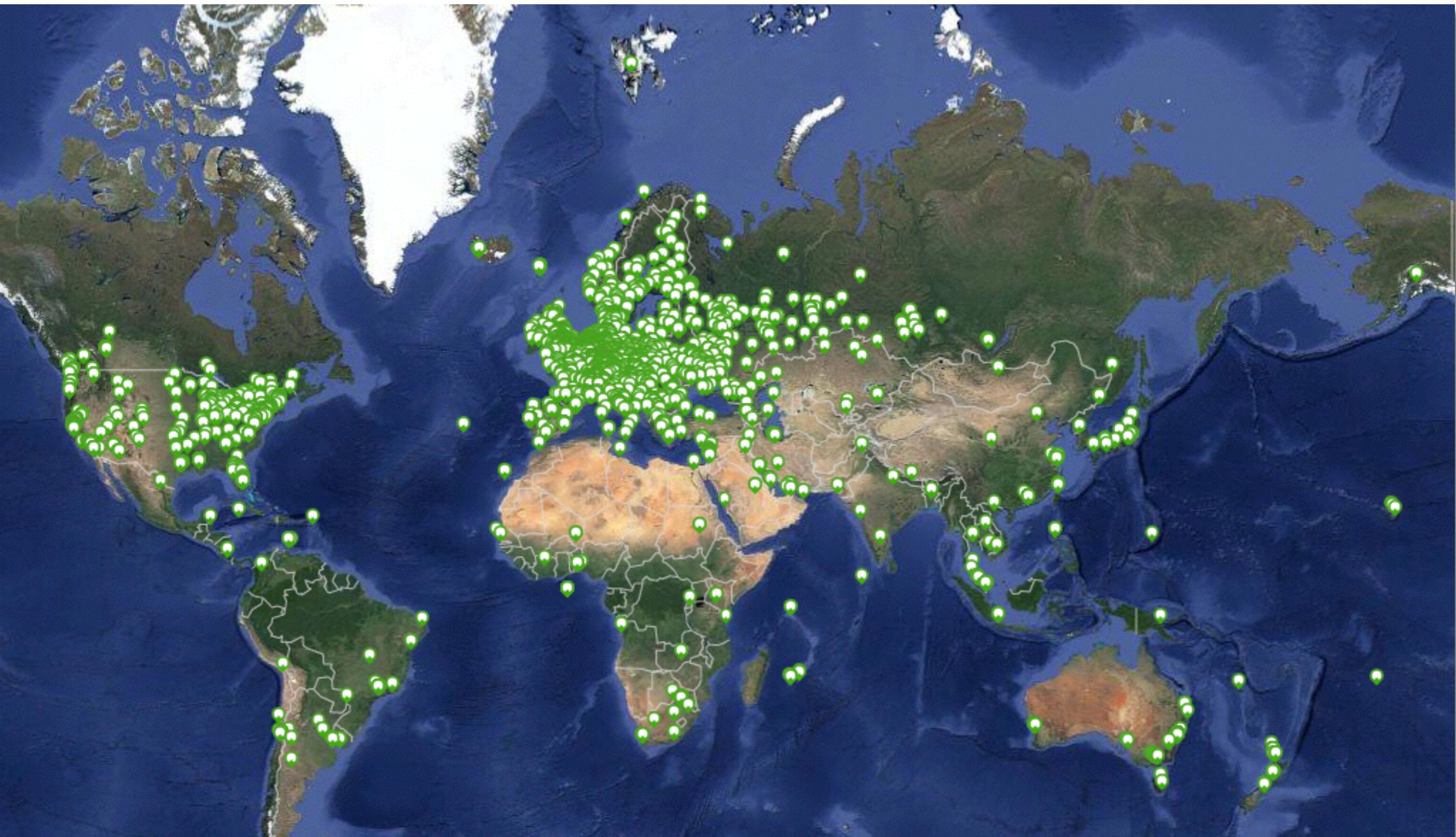
source: <https://stat.ripe.net/AL#tabId=routing>



Active Measurements

RIPE Atlas, M-Lab, etc.

RIPE Atlas

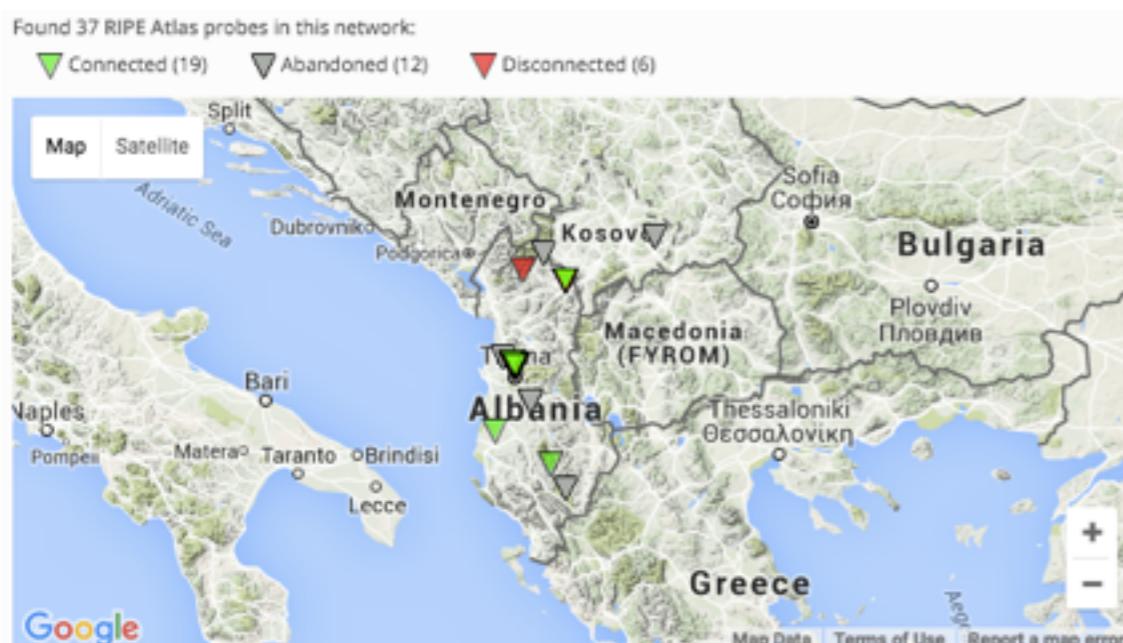


RIPE Atlas Coverage in Albania



RIPE Atlas probes connected:

19



Showing results for AL as of 2016-04-11 12:42:13 UTC

Networks in Albania (RIS):

vs

39



source: <https://stat.ripe.net/AL#tabId=activity>

source: <https://stat.ripe.net/AL#tabId=routing>

IXP-Country-Jedi

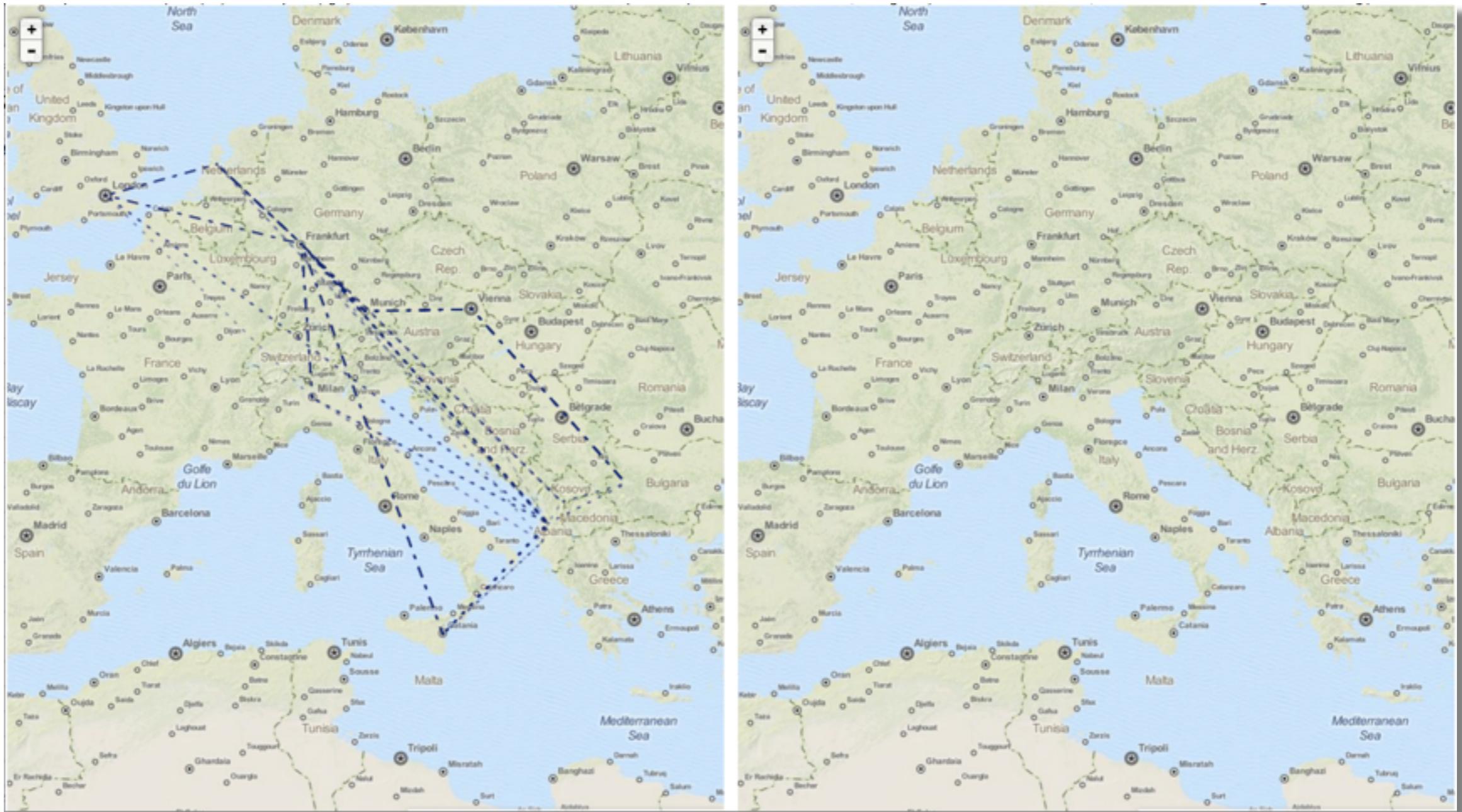


- What is IXP Country Jedi?
 - RIPE Atlas traceroute measurements
 - Geolocating observed hops
 - Indicator whether local traffic stays local
- Two examples from the region:
 - Albania
 - Romania

IXP-Country-Jedi



● Albania

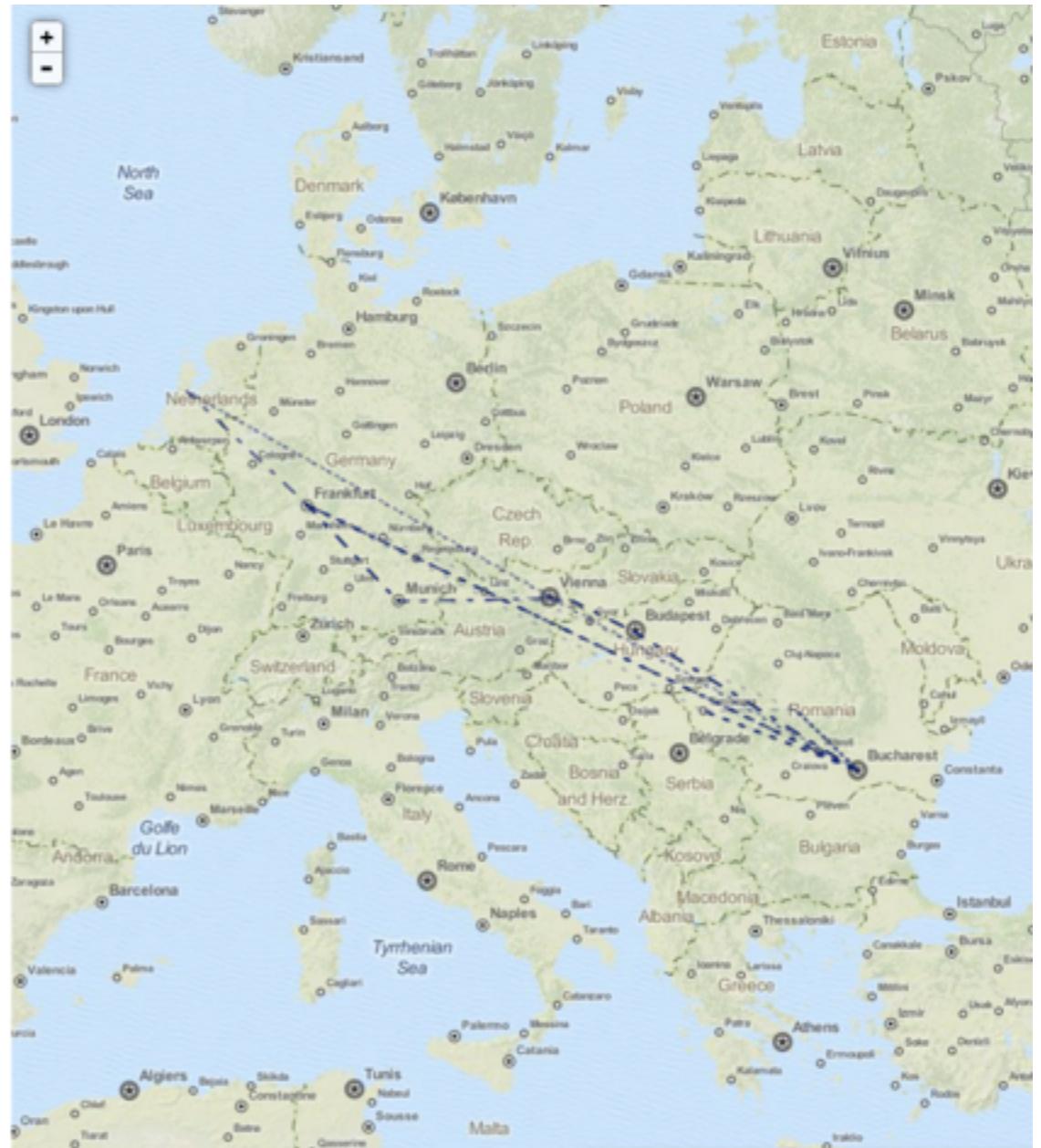
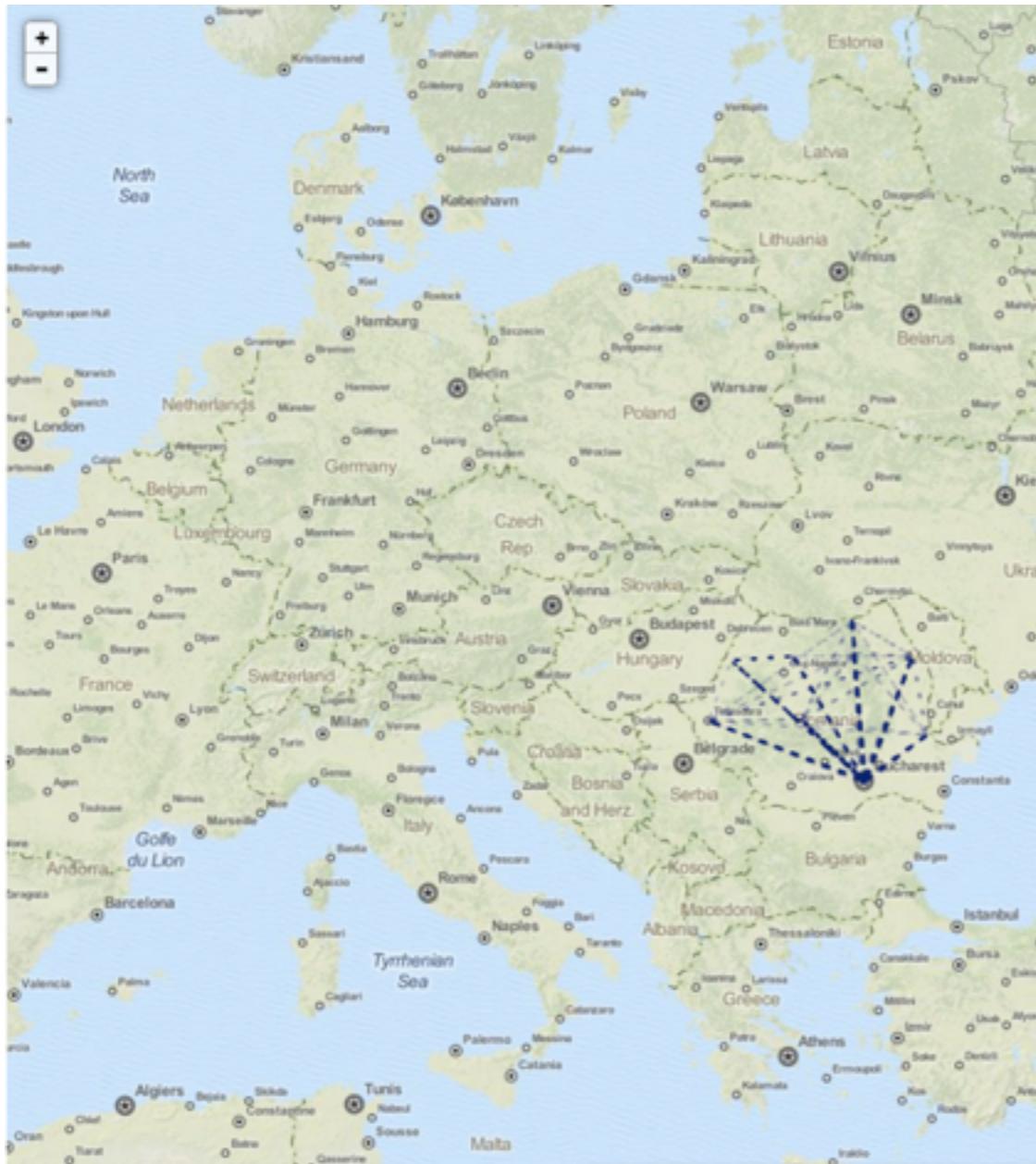


<http://sg-pub.ripe.net/emile/ixp-country-jedi/latest/AL/geopath/>

IXP-Country-Jedi



● Romania

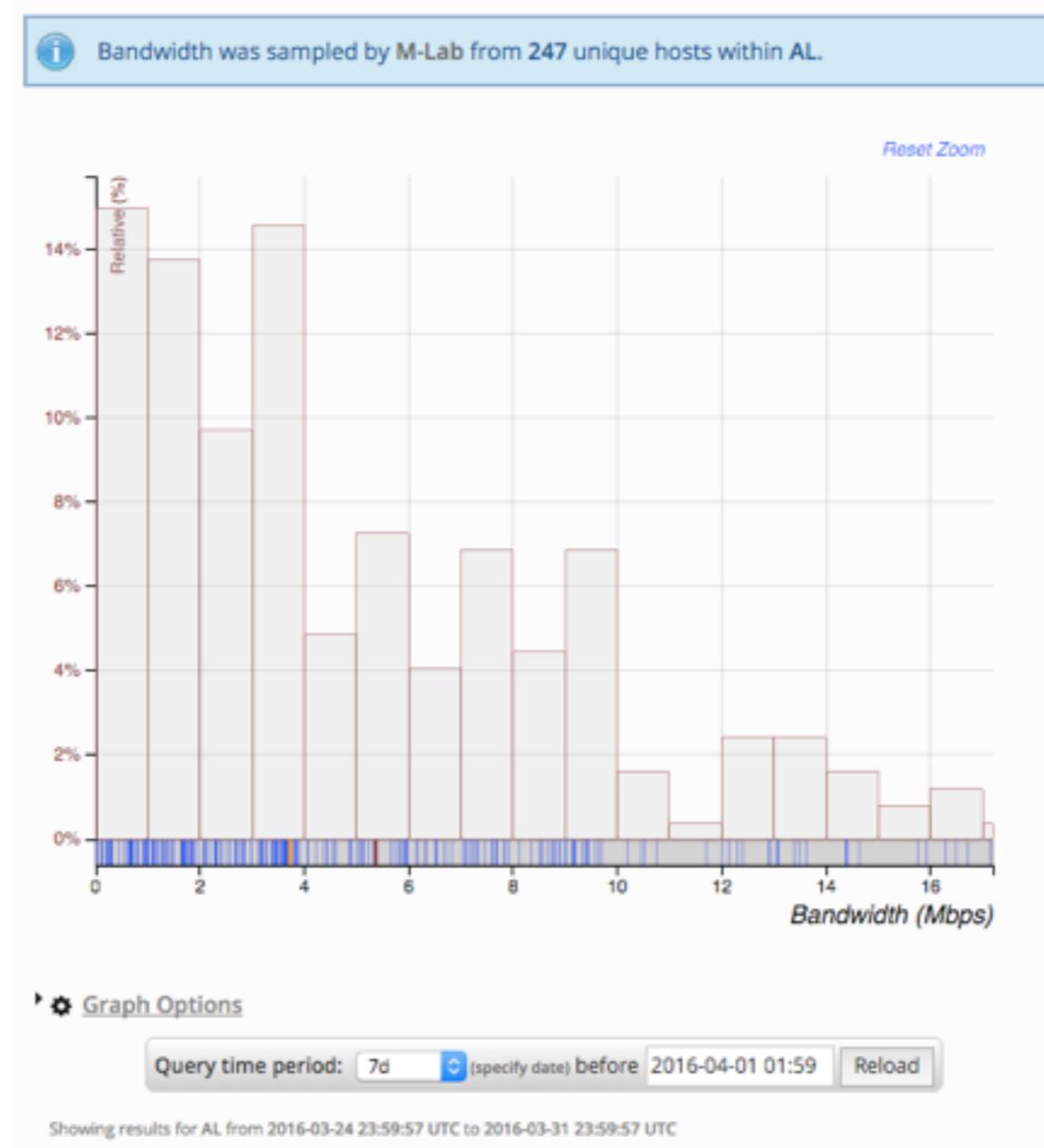


<http://sg-pub.ripe.net/emile/ixp-country-jedi/latest/RO/geopath/>

Bandwidth Capacity in Albania



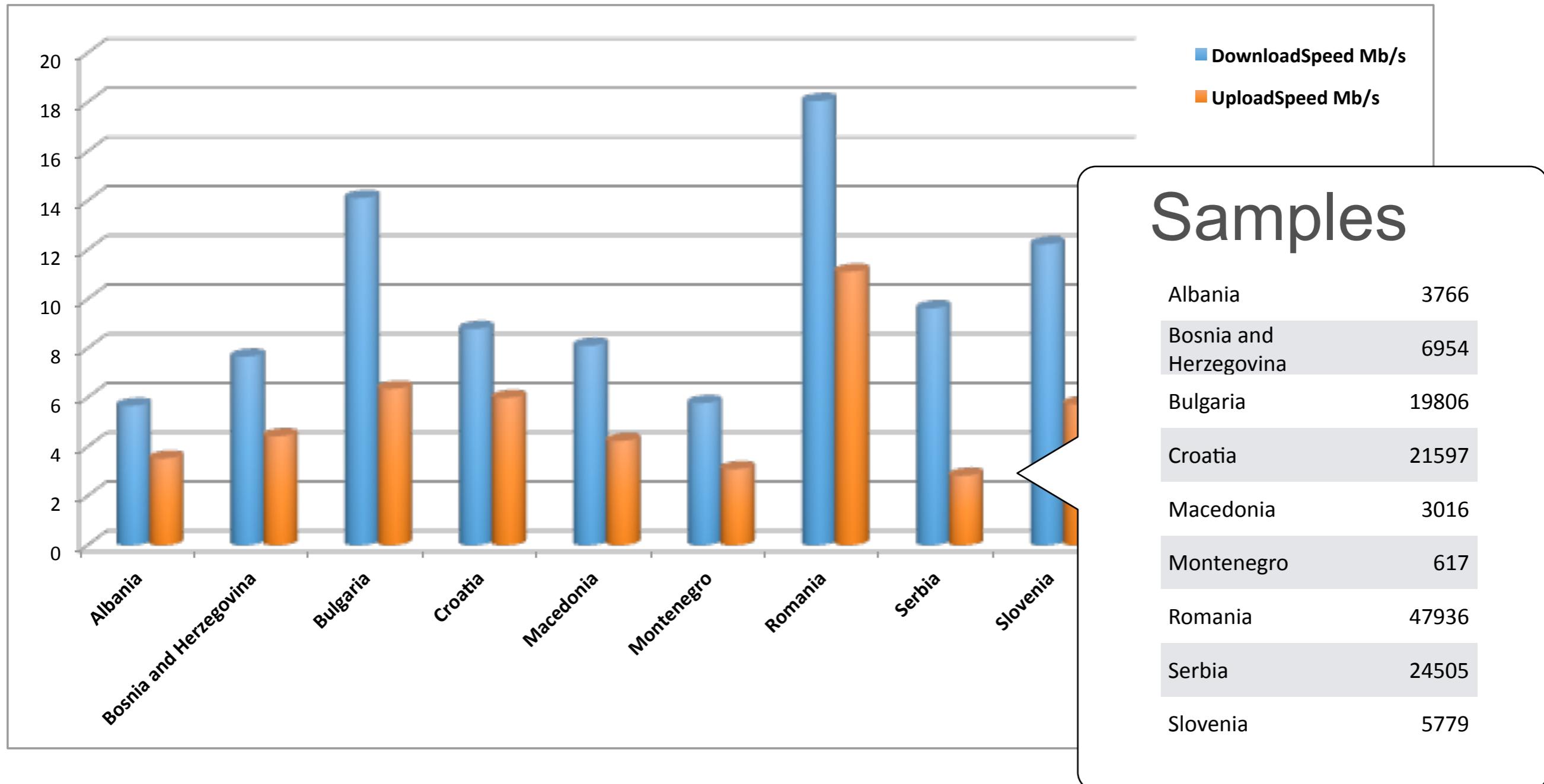
- Observed from M-Lab (Google)



Bandwidth Capacity in Albania

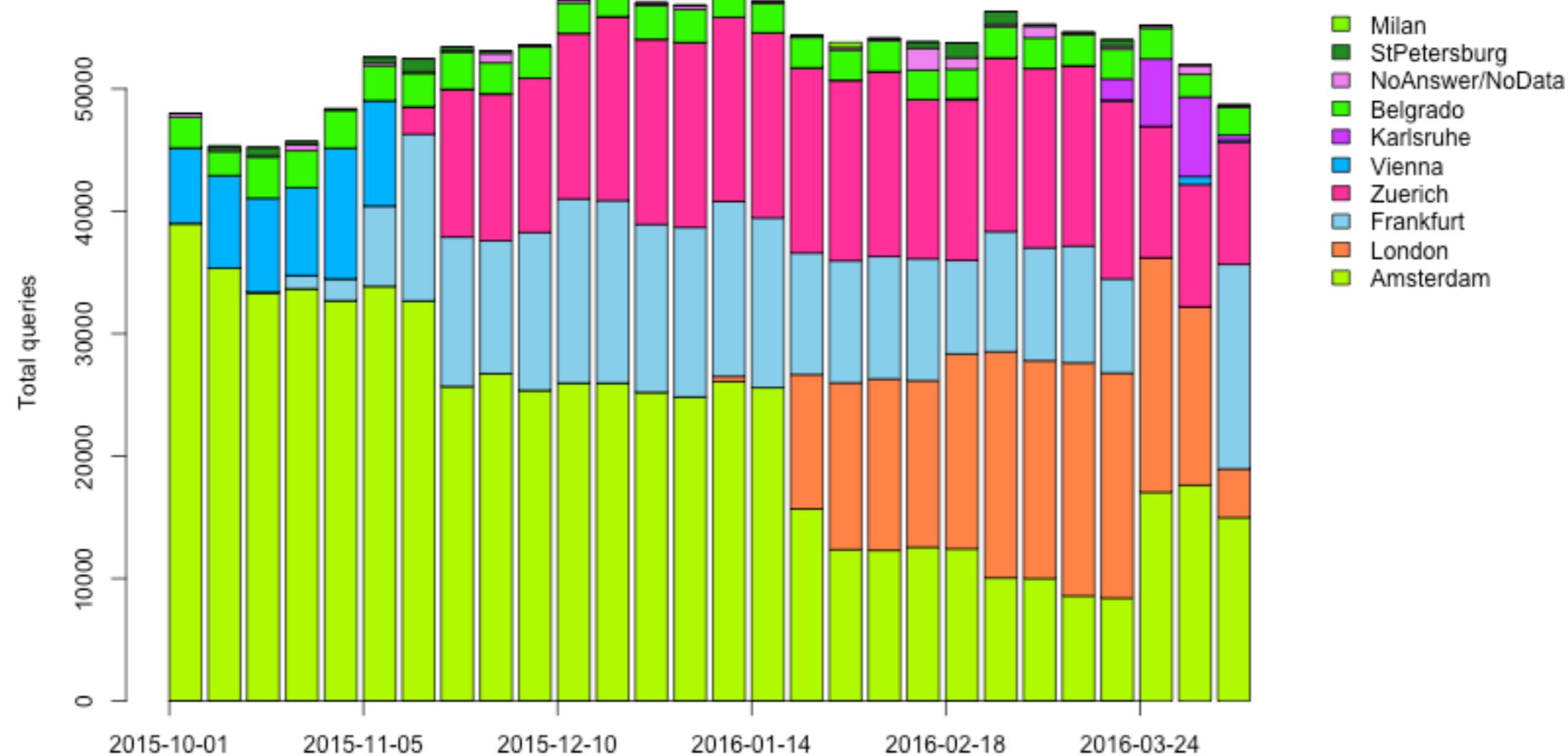


- broadbandspeedchecker.co.uk





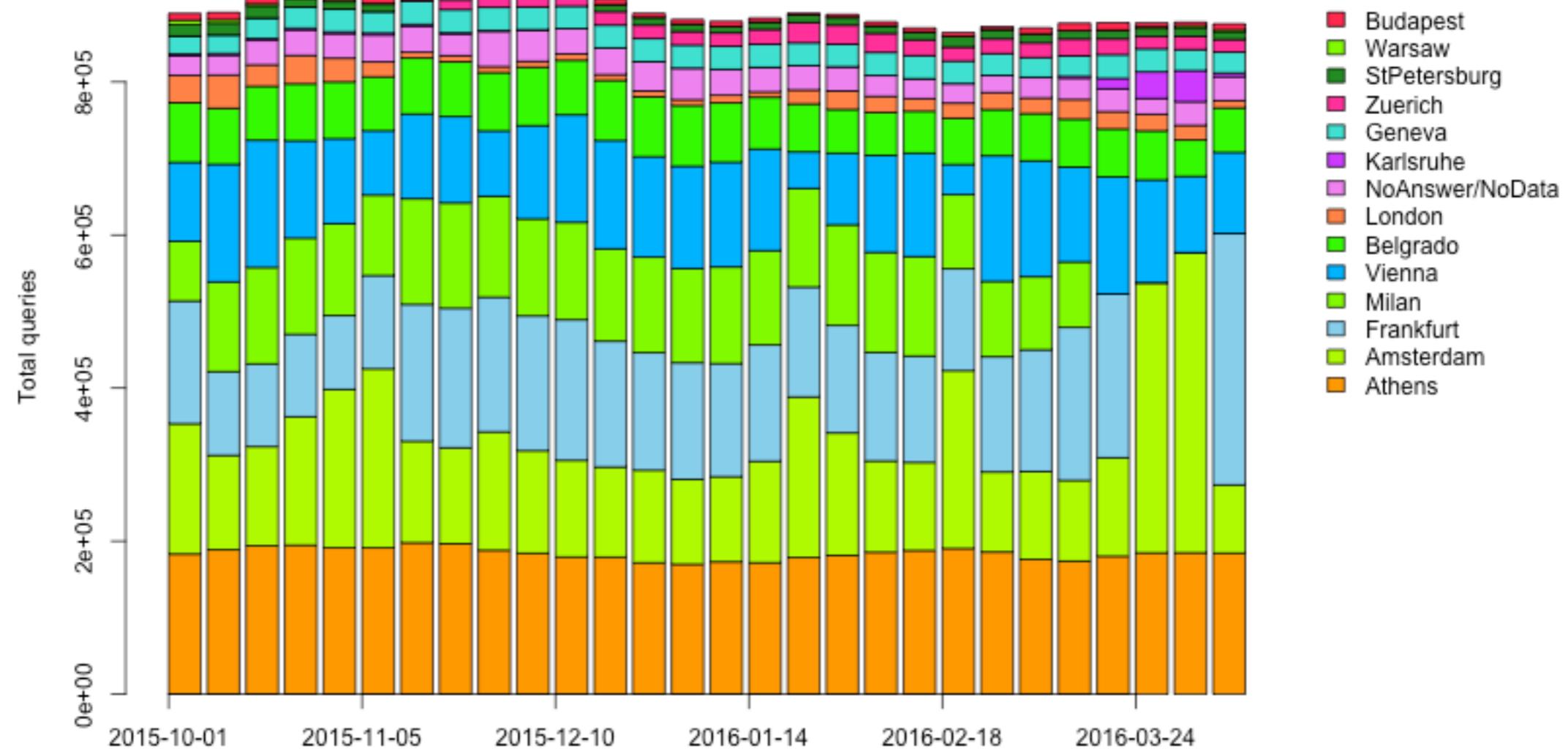
Top 10 K-root locations answering - Albania



source: RIPE Atlas



Top 14 K-root locations answering - South Eastern Europe



source: RIPE Atlas



Questions

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[@cteuschel](https://twitter.com/cteuschel)

