

Denmark: Country Report, from RIPE NCC perspective

Alena Muravska & Vesna Manojlović

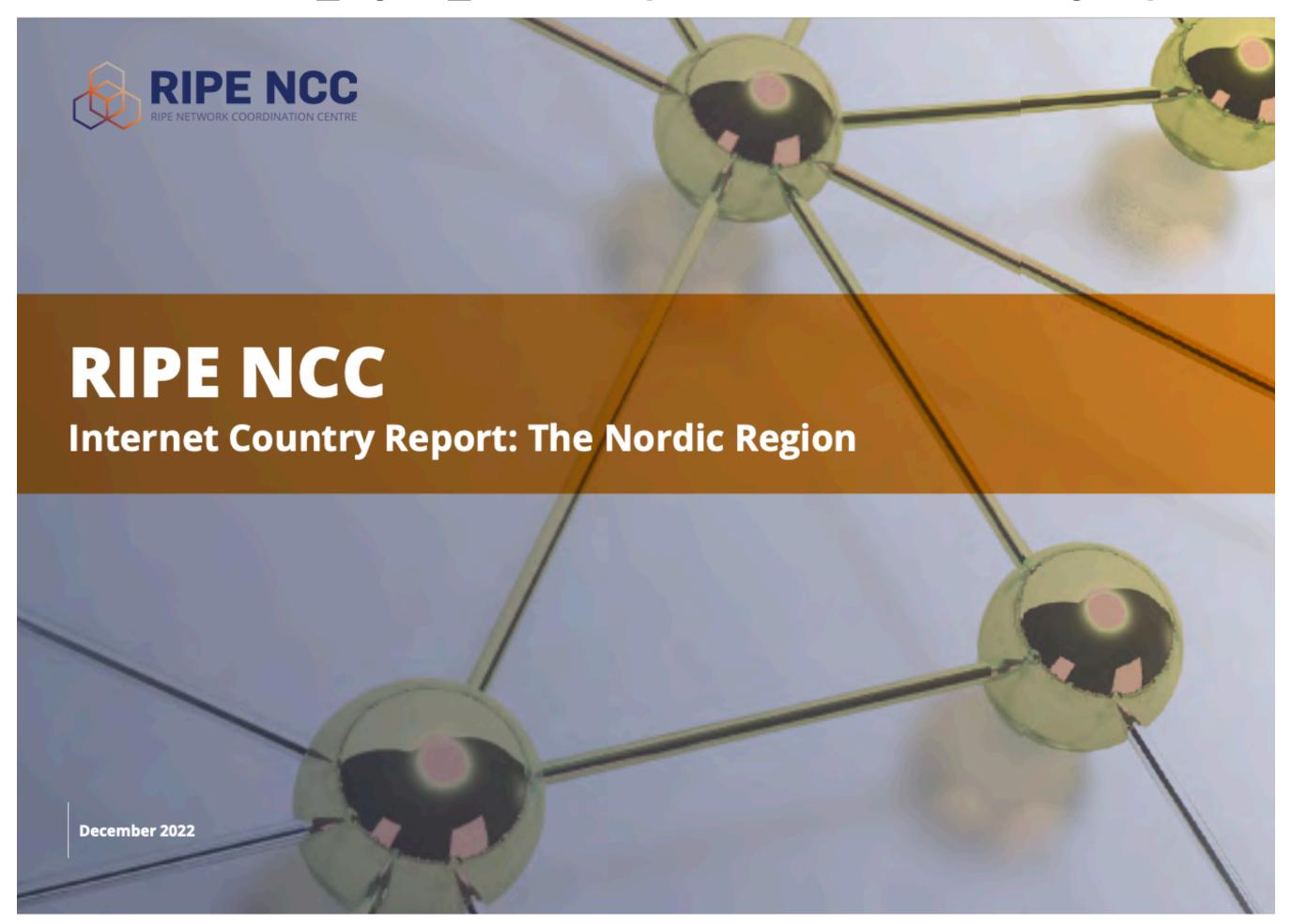
https://events.dknog.dk/event/21/contributions/159/

Copenhagen, Denmark | 10 March 2023 | DKNOG 13

"Internet Country Report": The Nordic Region



https://labs.ripe.net/author/suzanne_taylor_muzzin/ripe-ncc-internet-country-report-the-nordic-region/

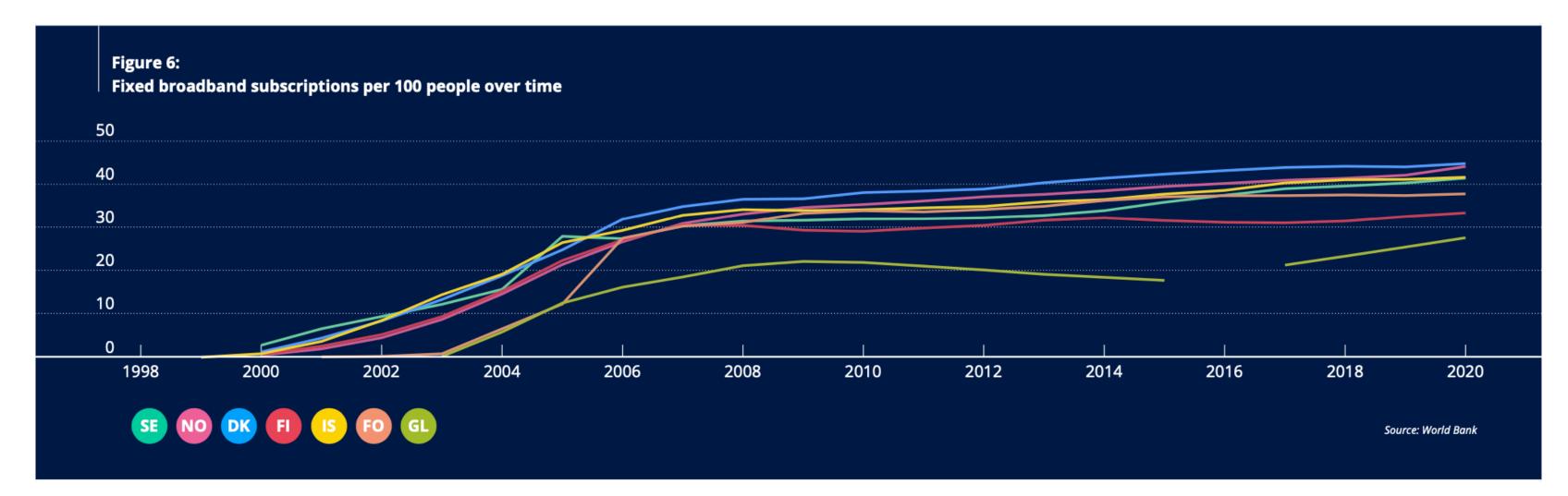


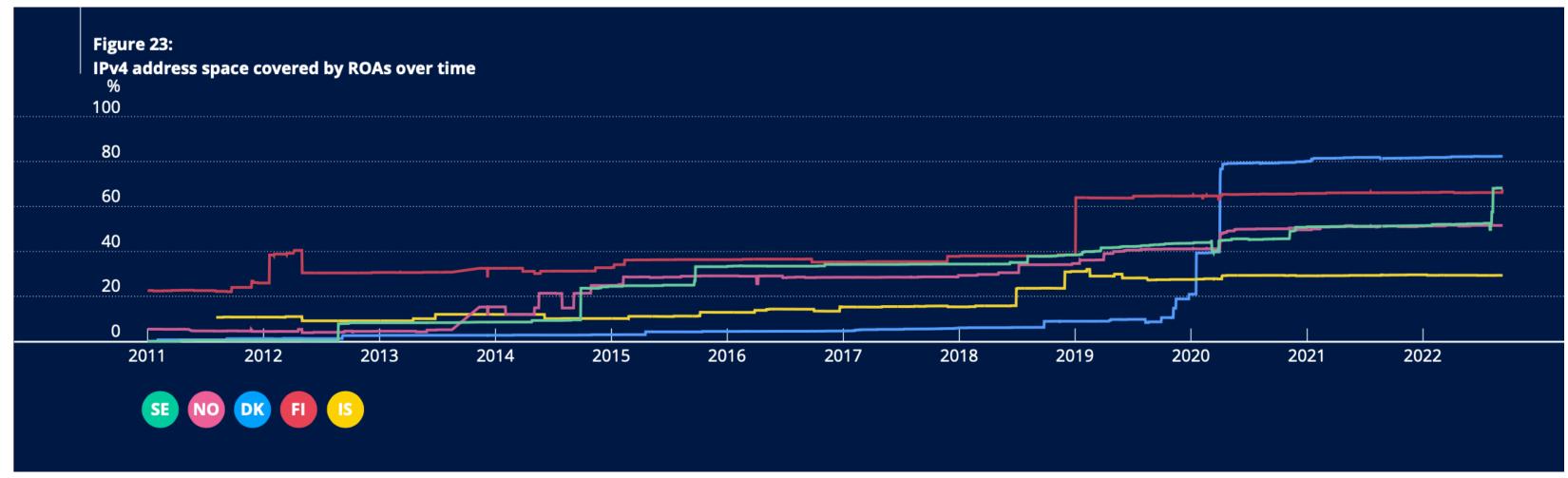
Denmark: First in EU!



First in:

- broadband
- 5G
- ROAs for IPv4
- connectivity
- & 2nd place overall according to "DESI"

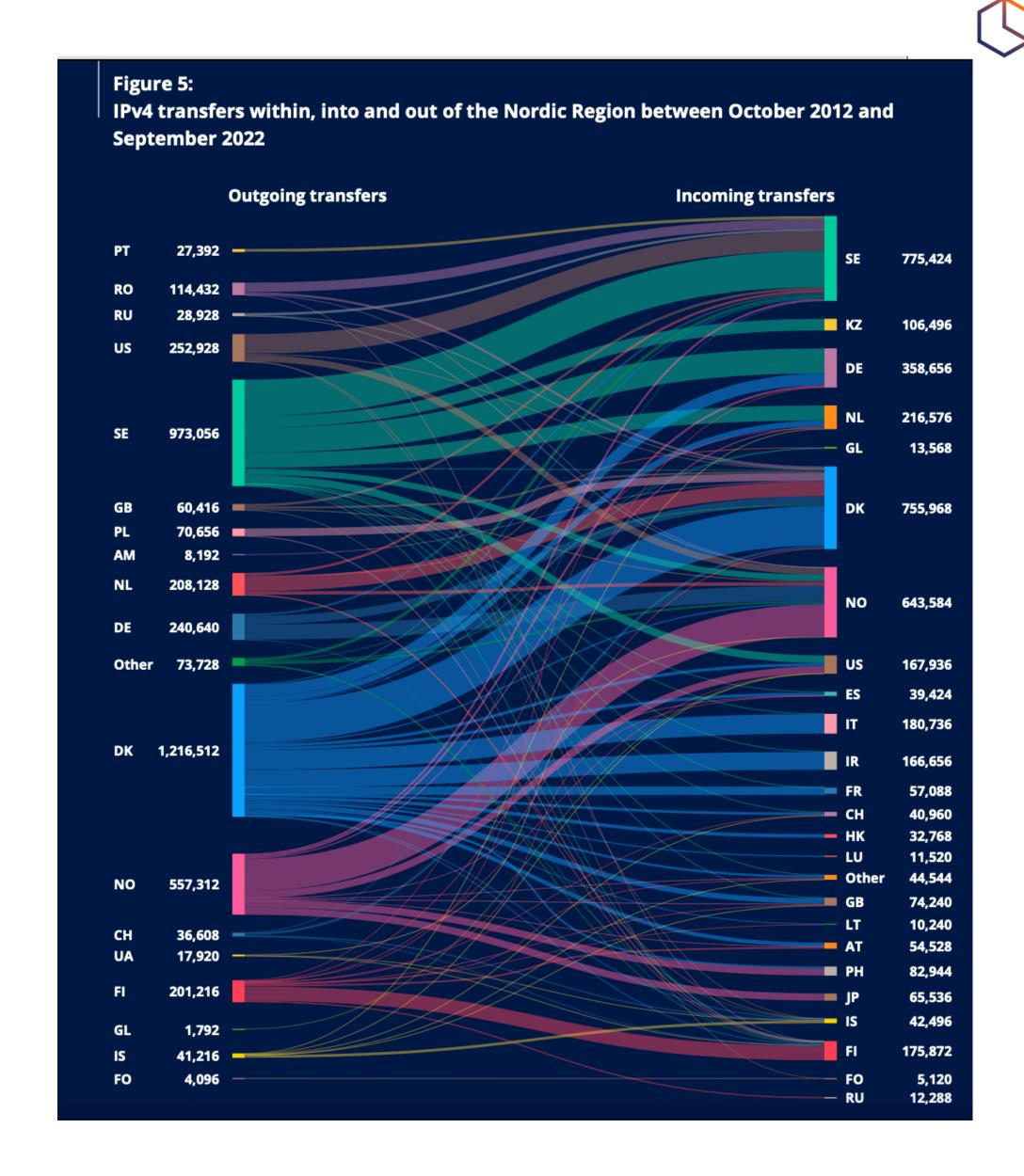




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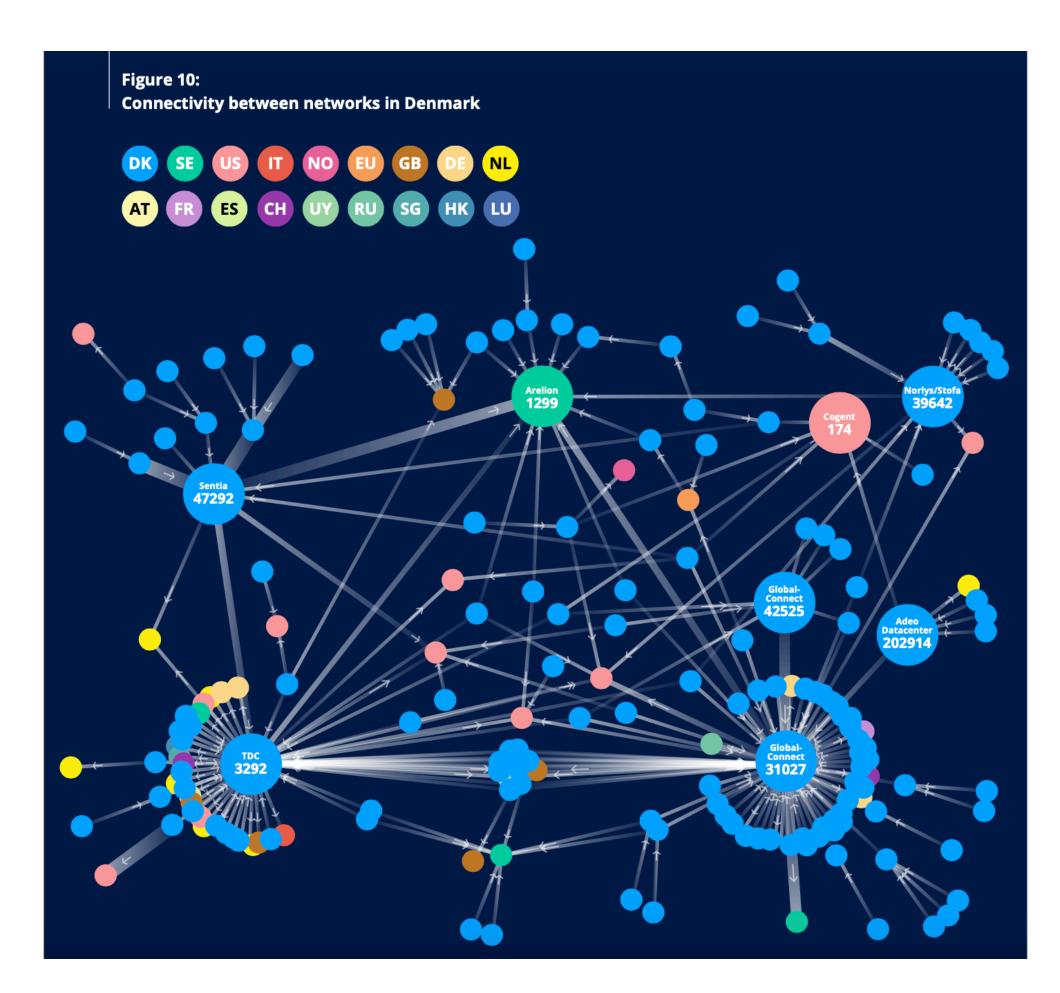
IPv4 Transfers

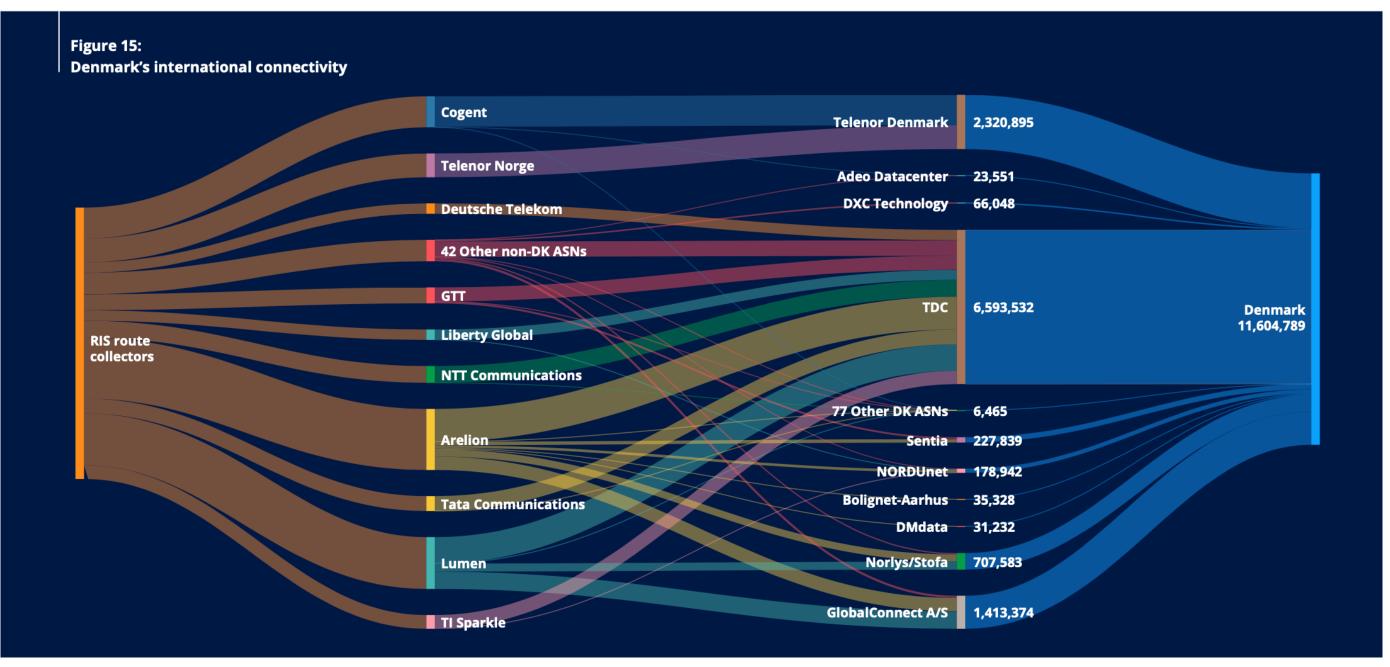
- Secondary market in IPv4
- Biggest net importers:
 - Fibia (DK): 164,864
 - SEAS-NVE (DK): 65,536
- Biggest exporters:
 - Styrelsen for It og Læring (DK): 736,000
 - Sagitta (DK): 65,536



Local & International Inter-connectivity: PDF





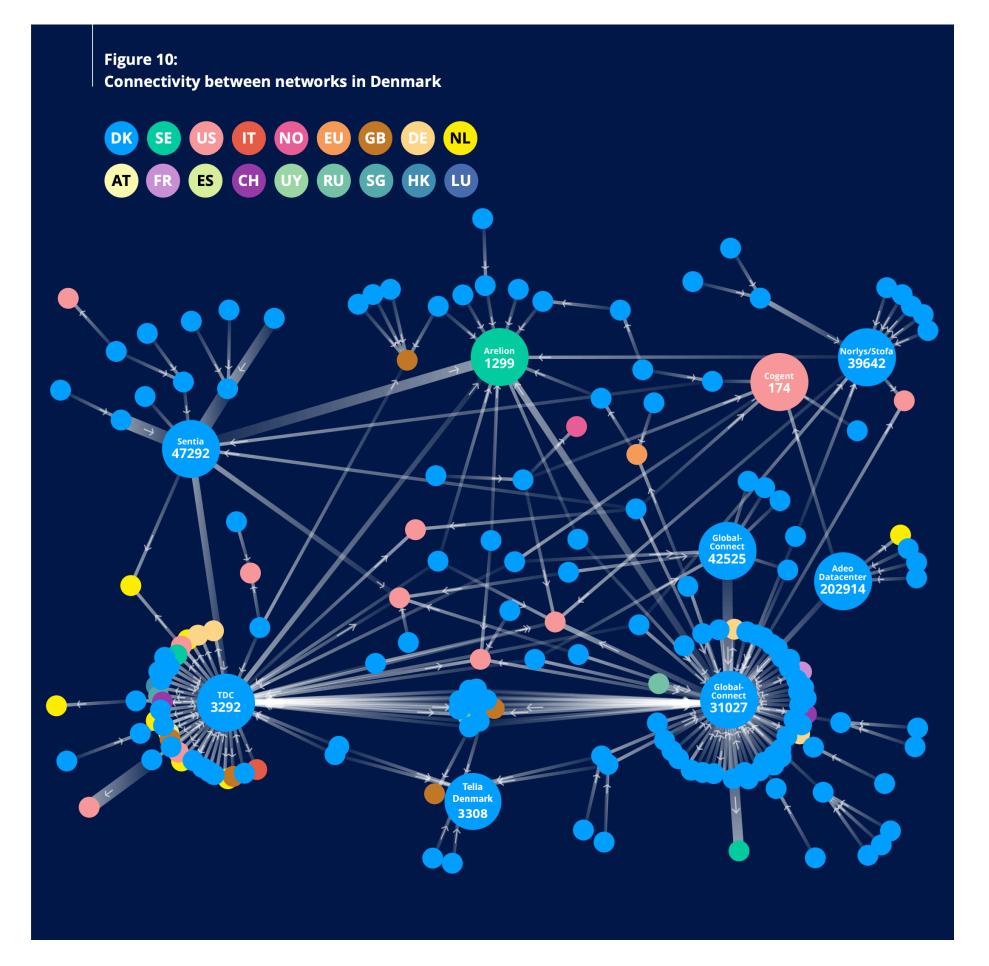


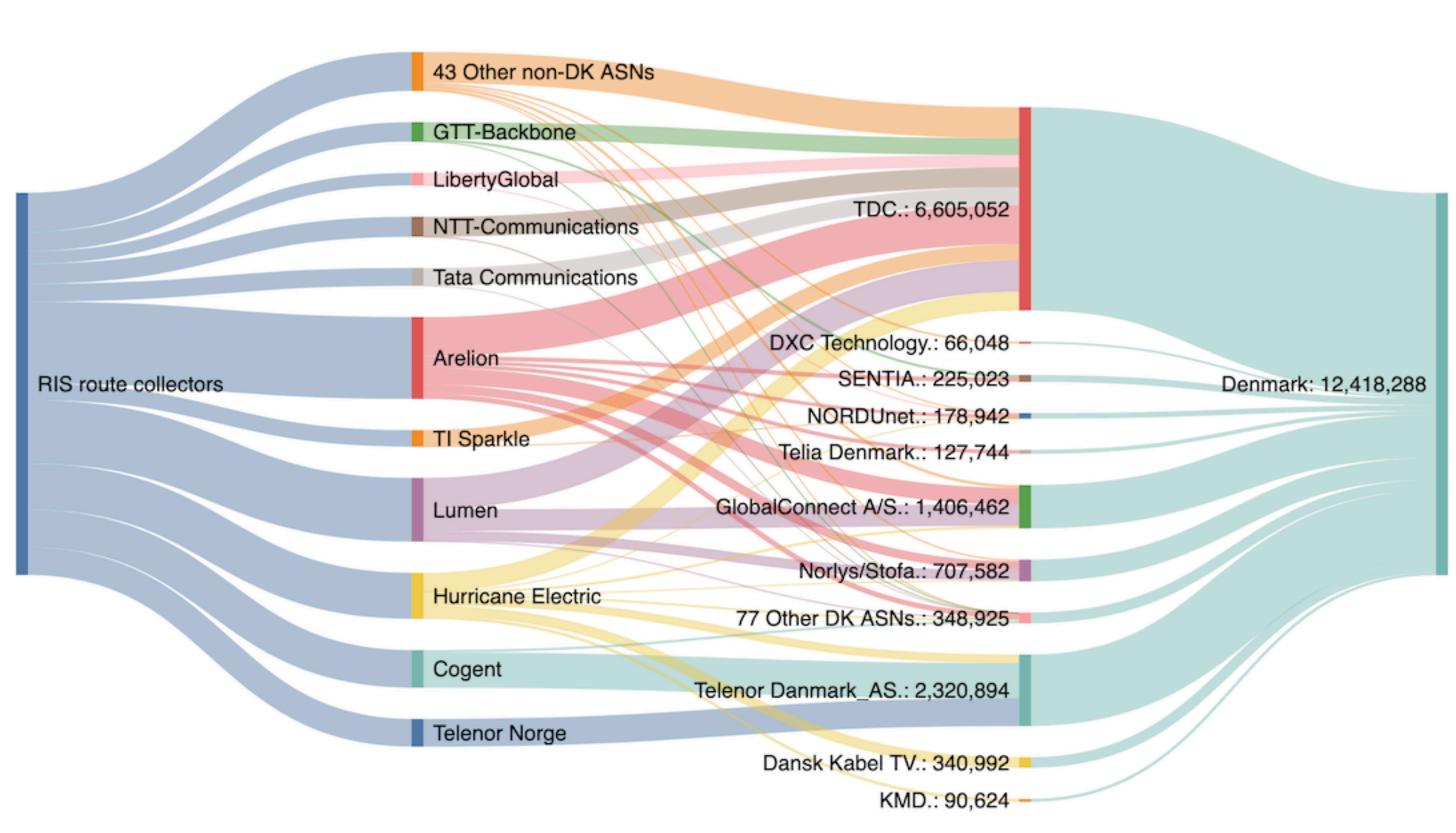
Updated Local & International Inter-connectivity



Based on feedback, we've added Telia DK (AS3308)

Thanks to René Wilhelm & Suzanne Taylor!

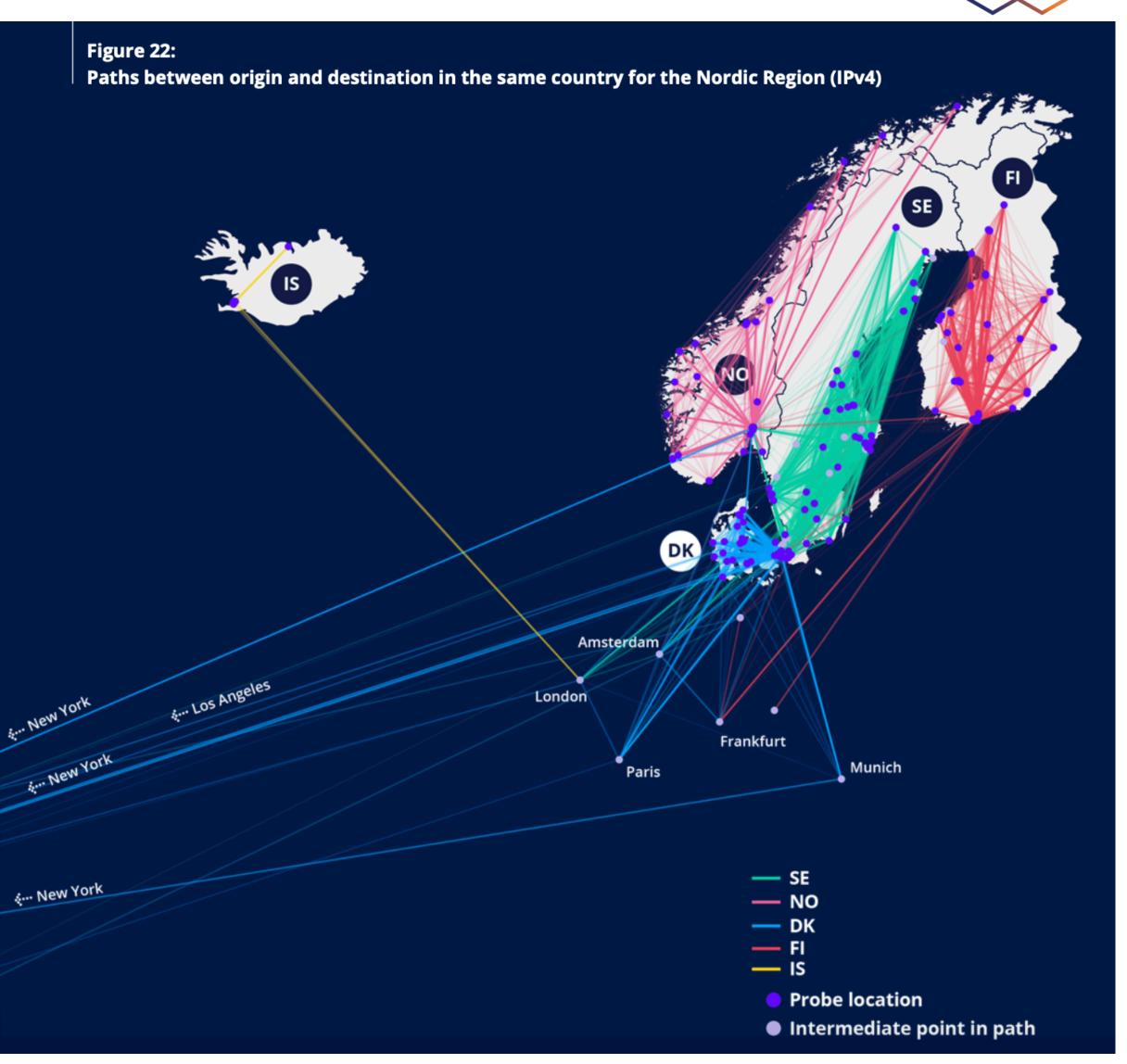




Traceroute paths

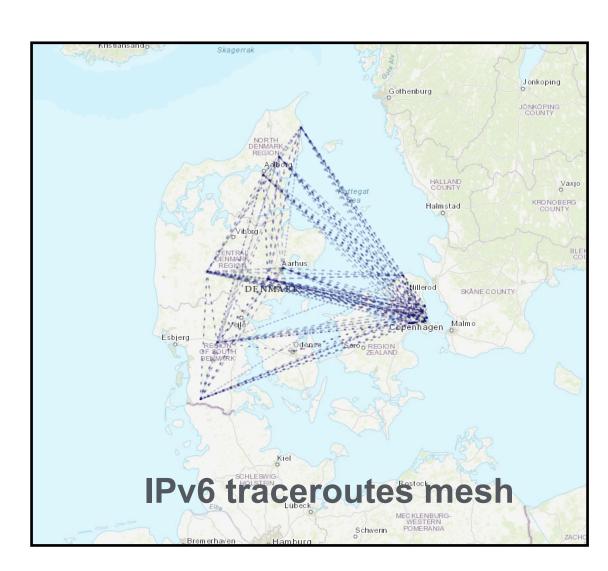


- ... "tromboning"!
- Many paths go outside DK
 - as seen by RIPE Atlas probes mesh
- Why?
- Explore for yourself:
 - IXP-Country-Jedi
 - https://jedi.ripe.net/



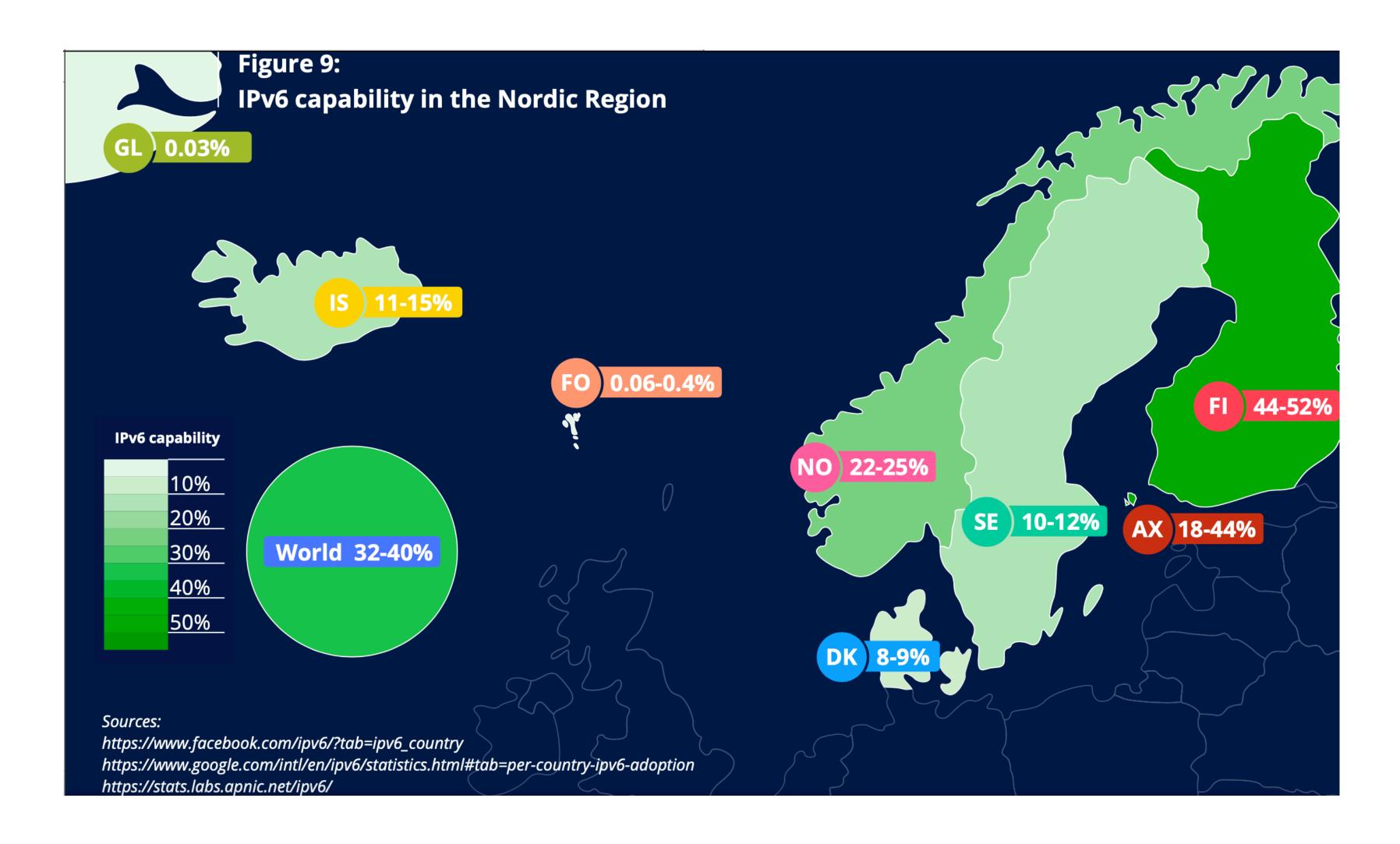
DK: Least IPv6 capability of Nordics





Explained by

- "no user demand"
- "no business case"
- large IPv4 space



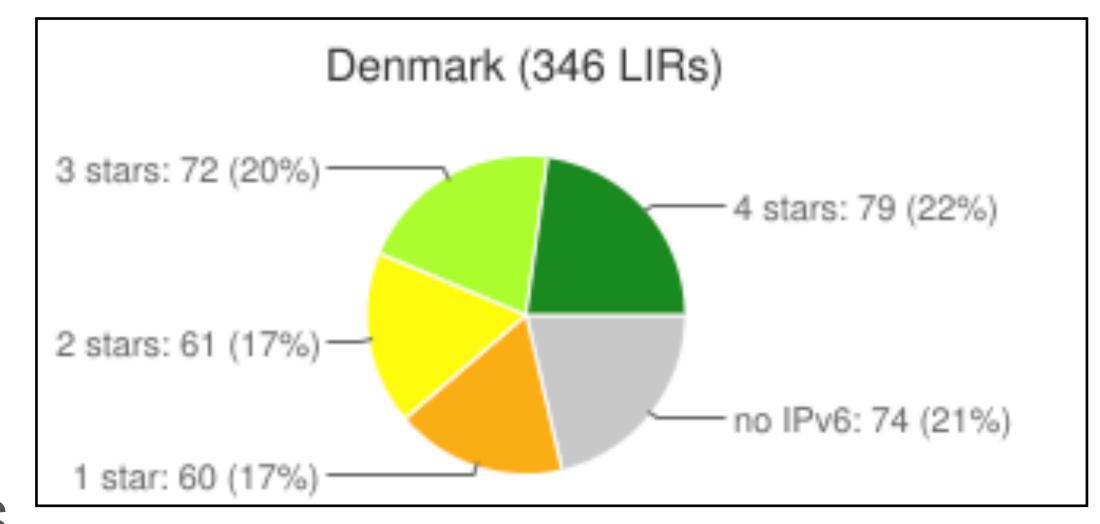
IPv6 RIPEness

"Stars" for LIRs who:

- have an IPv6 allocation
- have route object, reverse DNS, visible in RIS
- fifth star: actual traffic (access or content)

http://ipv6ripeness.ripe.net/

- http://ipv6ripeness.ripe.net/4star/DK.html
- http://ipv6ripeness.ripe.net/5star/DK.html



Listing of LIRs qualifying for all five stars				
Access (last 6 mo	s Access ContentLIR months)(last month)			
		82.6 %	ASERGO Scandinavia ApS	
61.1 %			Adeo Datacenter ApS	
		100.0 %	Bolignet A/S	
		89.6 %	Christian Ebsen ApS	
		100.0 %	DK Hostmaster A/S	
57.3 % 50.8 %			Dkuug/Dansk UNIX-system Bruger Gruppe	
		60.7 %	Hiper A/S	
		100.0 %	IT Confidence A/S	
		100.0 %	Kviknet ApS	
		75.8 %	Lynero ApS	
		100.0 %	MH HOLDING AF 1. JUNI 2009 ApS	
		100.0 %	NORDUnet	
		92.2 %	One.com A/S	
		51.6 %	Powerhosting Aps	
60.1 %			Skjern Bredbaand	9
		100.0 %	Zencurity ApS	J
		100.0 %	evercall ApS	

RIPE Atlas



- RIPE Atlas is the RIPE NCC's main Internet measurement platform.
- It is a global network of thousands of probes that actively measure Internet connectivity. Anyone can access this data via Internet traffic maps, streaming data visualisations, and an API.
- RIPE Atlas users can also perform customised measurements to gain valuable information about their own networks.
 - https://atlas.ripe.net

RIS & Other Tools & Services



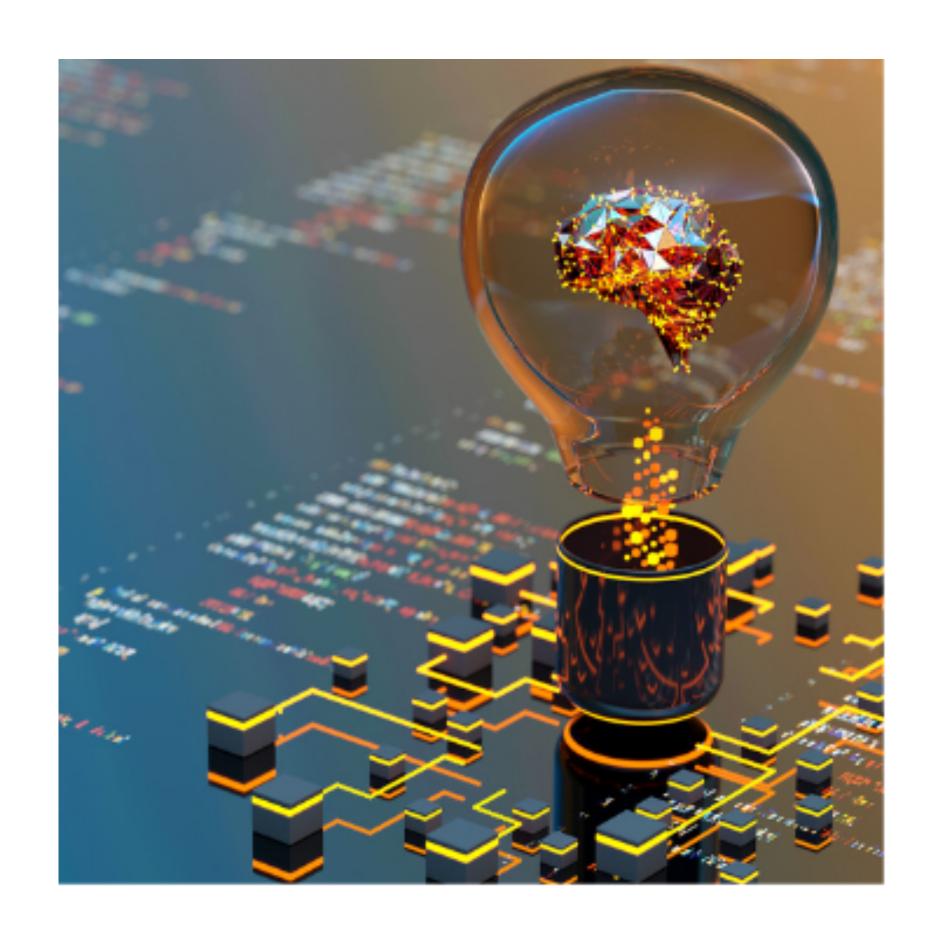
- The Routing Information Service (RIS) has been collecting and storing Internet routing data from locations around the globe since 2001.
 - https://www.ripe.net/ris
- Other RIPE NCC Tools and Services
 - RIPEstat: https://stat.ripe.net/
 - RIPE IPmap: https://ipmap.ripe.net/
 - K-root: https://www.ripe.net/analyse/dns/k-root

RIPE NCC "Community Projects Fund"



- Funding up to €250,000 spread across multiple projects
- Projects working for the "good of the Internet" can apply
- Preference to projects within the RIPE NCC service region
- Take a look at the application process and eligibility criteria

ripe.net/cpf



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Questions



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https://forum.ripe.net

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