



**RIPE NCC**  
RIPE NETWORK COORDINATION CENTRE

# RIPE NCC Update

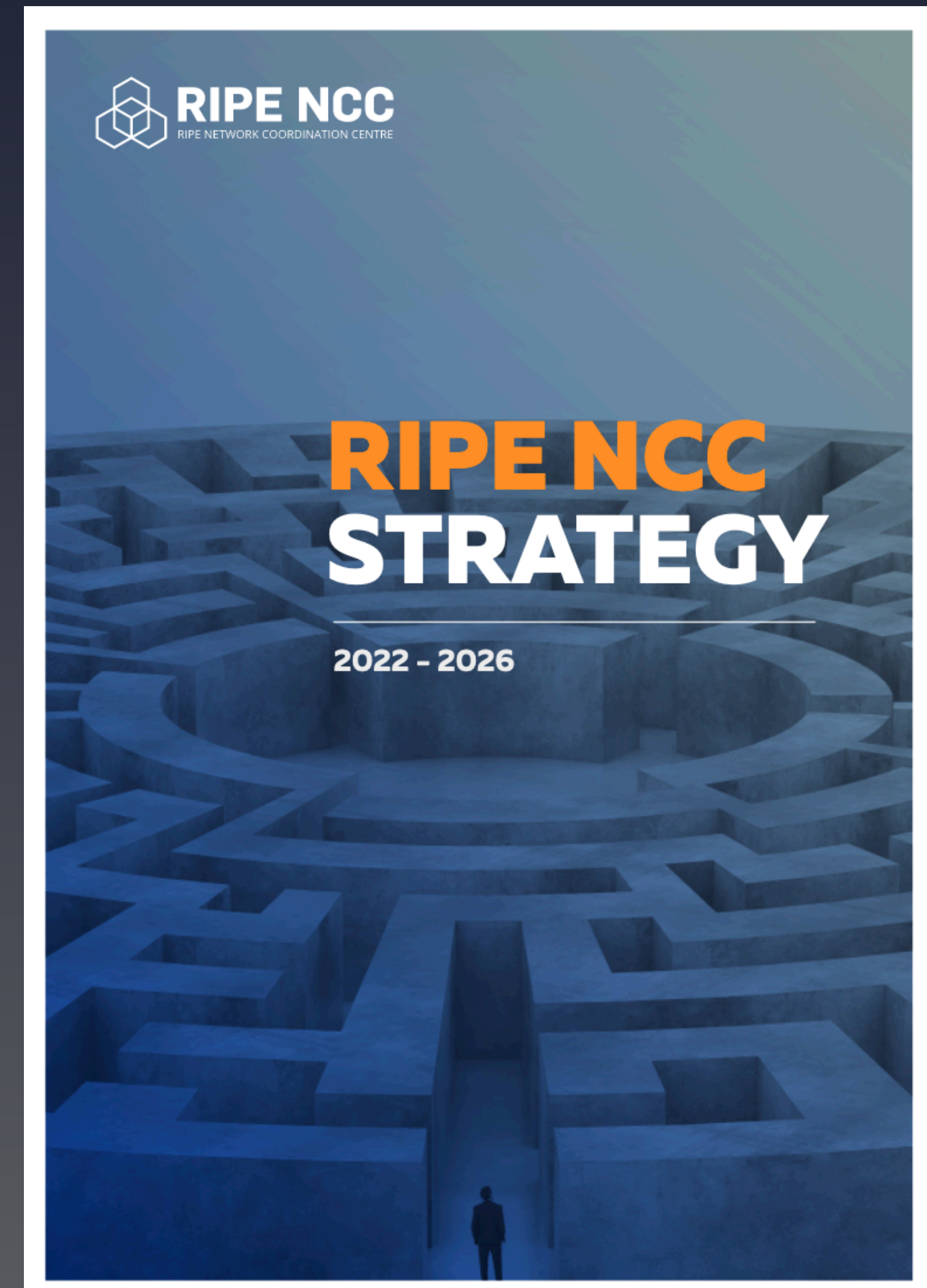
Hans Petter Holen  
Managing Director

# Mapping the Way Forward



- New strategy that looks ahead to the next five years
- Provides direction to strengthen our position within the Internet ecosystem
- Will inform our Activity Plans going forward

<https://www.ripe.net/publications/news/announcements/ripe-ncc-strategy-2022-2026-published>



# Mission



- As an authority on unique Internet number resources, we enable people to operate and develop the Internet
- As the secretariat for the RIPE community, we are a trusted steward of the open, inclusive, collaborative Internet model, engaging and connecting people and communities
- As a neutral source of information and knowledge, we actively contribute to the stability and evolution of the Internet



# RIPE NCC Strategic Objectives



<b>1</b>	<b>Support an open, inclusive and engaged RIPE community</b>
<b>2</b>	<b>Operate a trusted, efficient, accurate and resilient Registry</b>
<b>3</b>	<b>Enable our members and community to operate one secure, stable and resilient global Internet</b>
<b>4</b>	<b>Maintain a stable organisation with a robust governance structure</b>
<b>5</b>	<b>Attract engaged, competent and diverse staff</b>

# Looking towards 2022



## Goals for the coming year:

- Maintaining an accurate registry
- Strengthening our RPKI and RIPE Database infrastructure
- Security, risk management and compliance
- Effective engagement and outreach
- Supporting the RIR system and the wider Internet governance ecosystem
- An effective and sustainable organisation



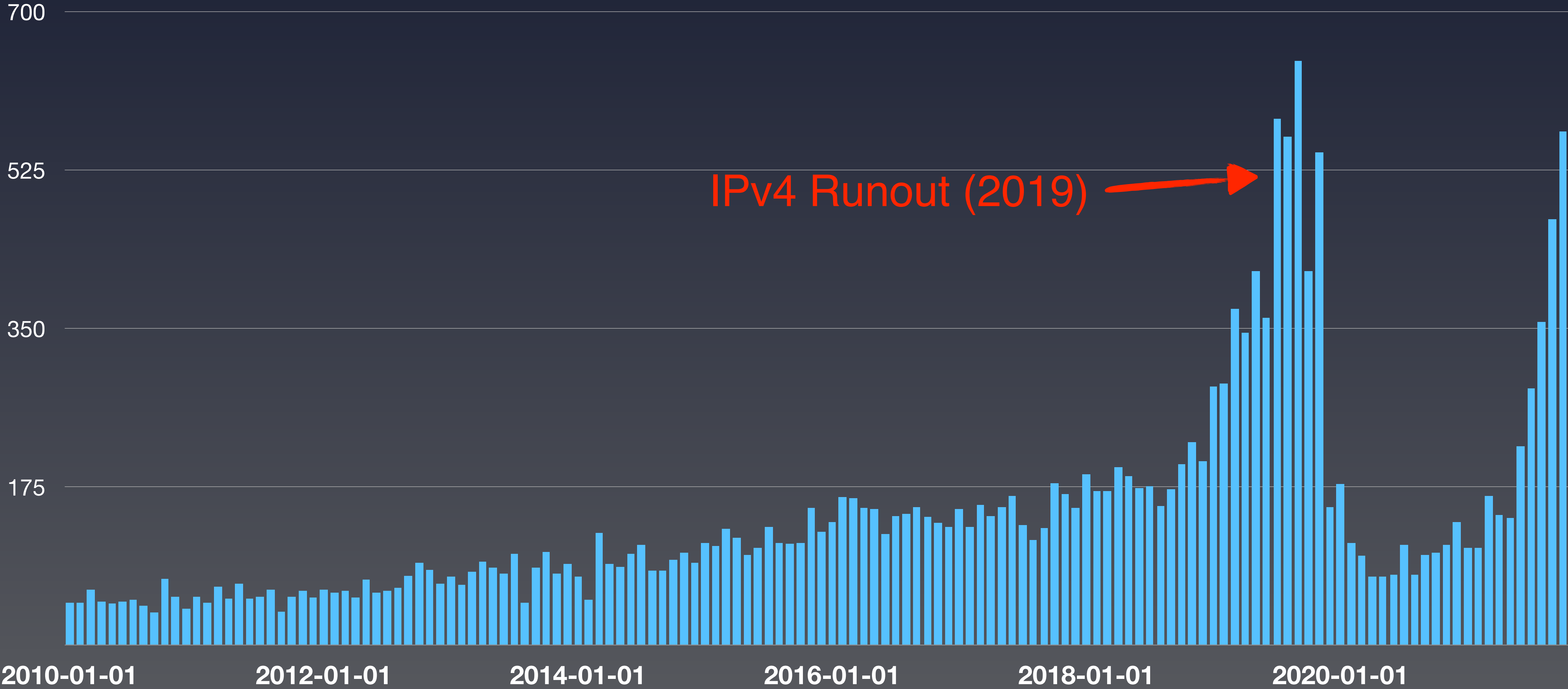
**What we've been  
working on**

# Registry



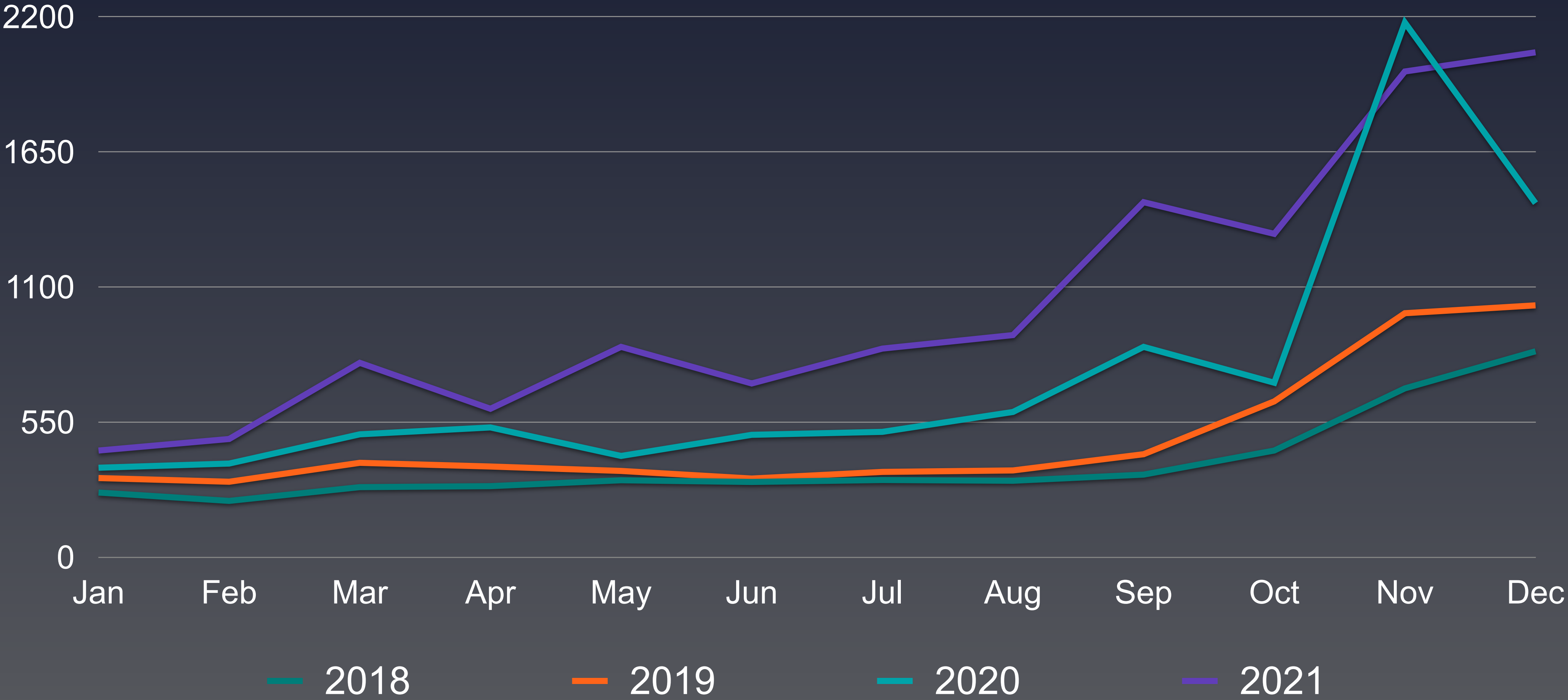
- Sharp increase in the number of transfers over 2021
- Additional staff supporting our Registry Services
- Extra work in terms of EU sanctions compliance
  - Automating checks against sanctions list
- Looking at ways to improve efficiency and response times
  - Long-term solution will involve greater automation and digitisation
- Waiting list for IPv4 is growing (544 LIRs currently)
  - <https://www.ripe.net/manage-ips-and-asns/ipv4/ipv4-waiting-list>

# RIPE NCC Membership Growth (to October 2021)





# Transfer Requests



# Sanctions



- We are subject to EU sanctions regulations
  - Cannot make further Internet number resources available to sanctioned entities
  - Any resources that have already been registered to sanctioned entities must be frozen in the RIPE Database
  - We do not have to deregister the resources in these cases
- Improved and automated our monitoring of membership information against EU sanctions
- Talks with our banks are ongoing - they have their own compliance obligations
- Now publishing quarterly sanctions transparency reports:
  - <https://www.ripe.net/publications/docs/ripe-776>
- Update on RIPE Labs:
  - <https://labs.ripe.net/author/athina/how-sanctions-affect-the-ripe-ncc/>

# RPKI Update



- RPKI Audit Framework
  - Gap analysis performed early 2021; most of the gaps identified have been closed
  - ISAE3000 audit planned later this year
- Resilient Infrastructure
  - Improved infrastructure for better redundancy
  - Replacement of Hardware Security Modules (HSM)
  - Open-sourcing of the RIPE NCC's RPKI core software
- Security and Compliance
  - All of our RPKI security reports are public and available on our website:  
<https://www.ripe.net/manage-ips-and-asns/resource-management/rpki/security-and-compliance>



# RIPE Atlas: Building a Better Network



- We have more than 11,100 probes spread out across 5,000+ ASNs in 169 countries
- Next year we will begin distributing new version five hardware probes to maintain the network
- Our goal is to cover at least the top five ASNs from all underrepresented regions
- Improved sponsorship helps us expand the RIPE Atlas network



# E-learning and Certification



- RIPE NCC Certified Professionals: IPv6 Security Expert exam is now live
- RIPE NCC Academy has new content:
  - Updated version of the IPv6 online course
  - IPv6 Security online course
  - \*New\* virtual lab activities and environment
- E-learning will remain an important part of our training programme after COVID-19

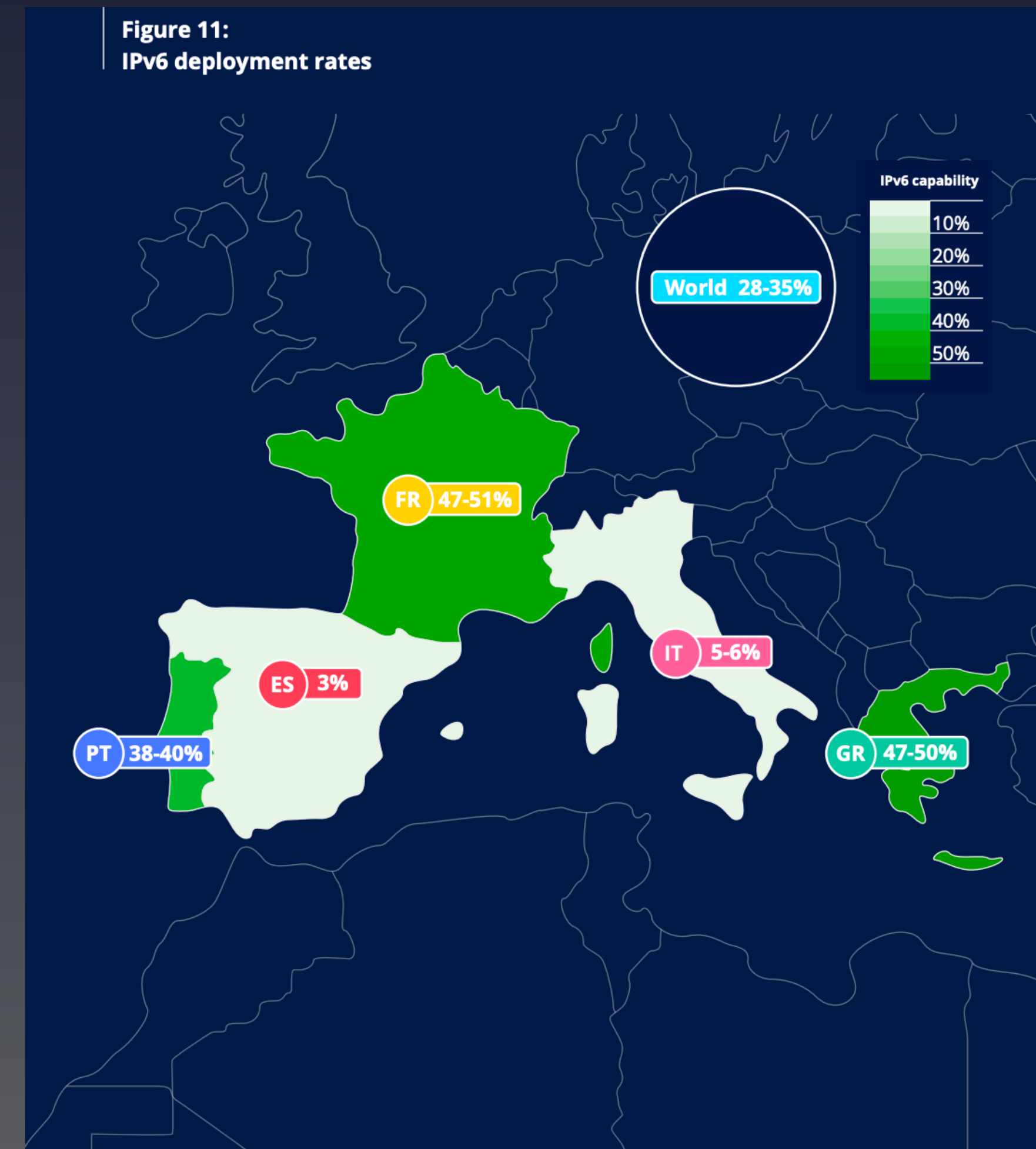




# Internet Country Report: Mediterranean Europe



- Looked at the Internet landscape in Portugal, Spain, France, Italy and Greece
- First report translated (five languages)
- Key findings:
  - IPv4 shortage is less of an issue in this region
  - IPv6 capacity varies greatly among the five countries
  - Routing is generally quite optimised with some anomalies
  - There is a highly developed Internet landscape, healthy market competition and robust, resilient Internet infrastructure
  - [https://labs.ripe.net/author/suzanne\\_taylor\\_muzzin/ripe-ncc-internet-country-report-mediterranean-europe/](https://labs.ripe.net/author/suzanne_taylor_muzzin/ripe-ncc-internet-country-report-mediterranean-europe/)

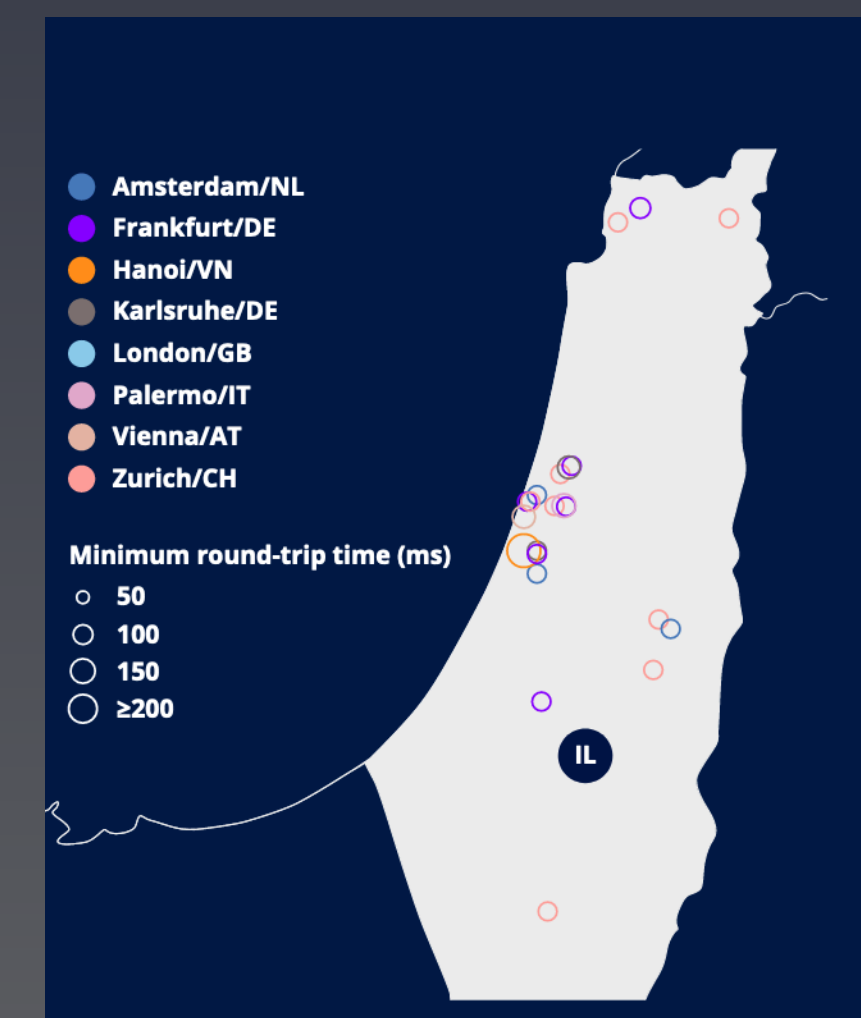
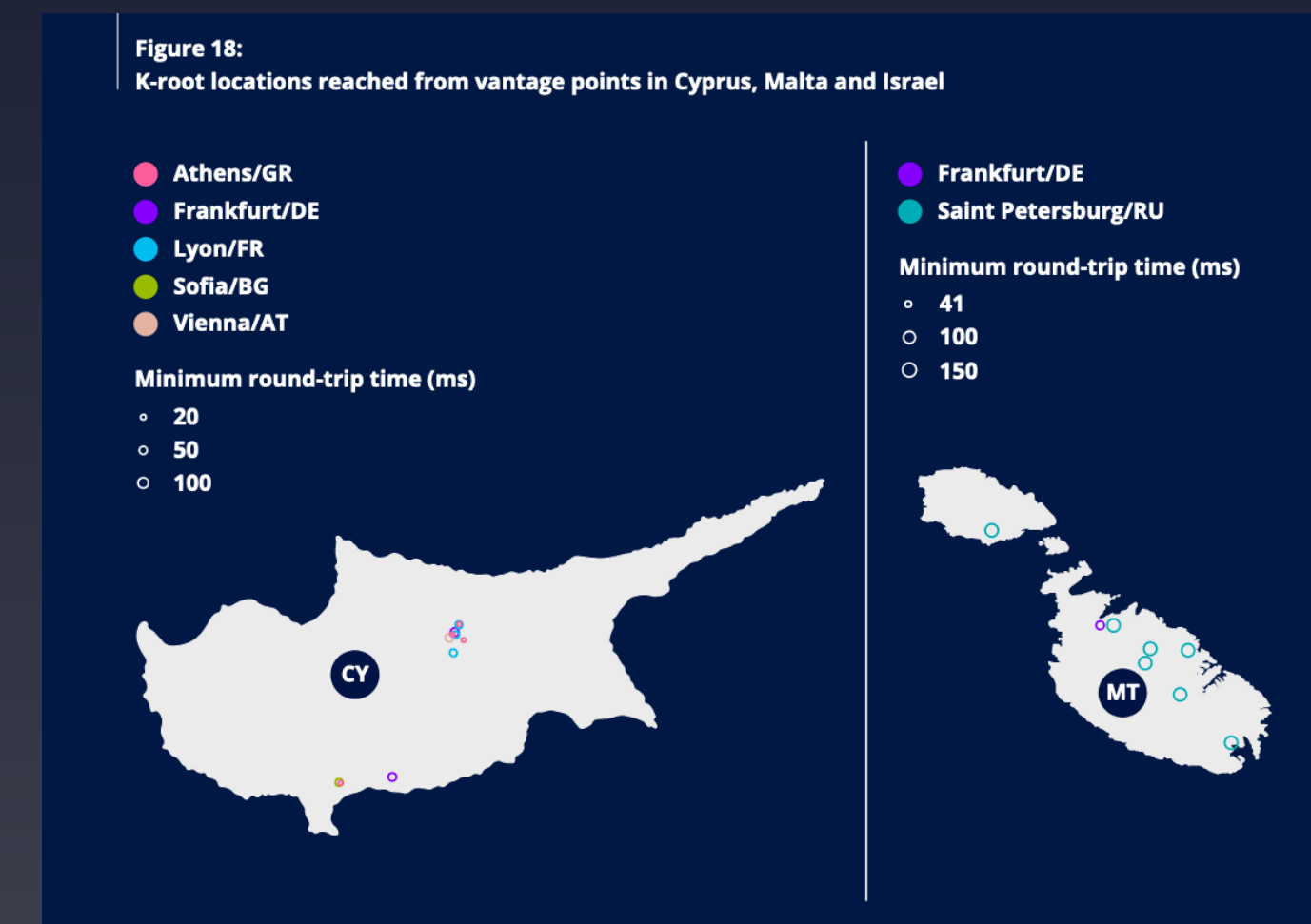


# Internet Country Report: Cypres, Israel and Malta



- Key findings:

- High levels of Internet penetration and a large amount of IPv4 per capita
- Lack of IPv6 deployment in Matla and Cyprus; Israel follows global avg.
- Good amount of interconnection and resiliency in all three countries
- Highly dependent on submarine cables for their connectivity
- [https://labs.ripe.net/author/suzanne\\_taylor\\_muzzin/ripe-ncc-internet-country-report-cyprus-israel-and-malta/](https://labs.ripe.net/author/suzanne_taylor_muzzin/ripe-ncc-internet-country-report-cyprus-israel-and-malta/)



# Language Support



- Working on a translation wiki: <https://translated.ripe.net/>
- Languages: Spanish, Italian, Turkish, Farsi, Russian and Arabic
- Focus initially on practical information for members
- Still a work in progress, more to come!

English Karla Talk Preferences Watchlist Contributions Log out

Page Discussion Read Translate More Search RIPE NCC

## كيف تصبح عضواً

This page is a translated version of the page How to Become a Member and the translation is 100% complete.

Other languages: English • Türkçe • español • italiano • русский • العربية • فارسی

### Contents [hide]

- 1 كن عضواً
- 2 هل عضوية RIPE NCC مناسبة لمؤسستي؟
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- 4 كيف تصبح عضواً
- 4.1 المعلومات التي ستحتاجها للمء النموذج:
- 4.2 التقديم
- 5 ماذا سيحدث بعد تقديم الطلب؟
- 6 فتح حساب آخر
- 7 لا يمكنك أن تصبح عضواً:

### كن عضواً

يمكن لأعضاء RIPE NCC طلب عناوين IPv6 وأرقام AS وإجراء [assignments] إلى [End Users] أو العملاء.

لقد نفذت منا عناوين IPv4 ولكن يمكن للأعضاء المؤهلين طلب واحد/ 24 [allocation] من خلال قائمة انتظار IPv4 الخاصة بنا.

كما يستفيد الأعضاء أيضاً من مجموعة واسعة من الخدمات مثل الدورات التدريبية و [resource] [certification] (RPKI) وأدوات تحليل الإنترنت. كما تنظم مؤسسة RIPE NCC أيضاً فعاليات مجتمعية وأنشطة عبر الإنترنت حيث يمكن للأعضاء مناقشة الاهتمامات المشتركة.

### هل عضوية RIPE NCC مناسبة لمؤسستي؟

لا تحتاج المؤسسات التي تحتاج إلى عناوين IPv6 أو أرقام AS دائماً إلى أن تصبح أعضاء ويمكنك الحصول



# RIPE Labs



- Ideas and perspectives from RIPE NCC staff and the wider RIPE community
- Over 17,000 monthly readers
- Often used to share views on the topics you care about

<https://labs.ripe.net/category/internet-governance/>

The screenshot displays a social media feed with four posts. Each post includes a profile picture, a name, a date, a title, a short text description, a category tag, and engagement icons (likes, comments, shares, and a bookmark icon).

- Post 1:** Profile picture of Marco Hogewoning, name 'Marco Hogewoning', date '20 Nov 2020', title 'Changing the Internet', text 'I recently had the opportunity to speak at a (virtual) event organised to celebrate the 25th birthday of the Moscow Internet Exchange. A great moment to look back at how the Internet has changed, and an even better one to discuss how best to handle changes yet to come. Here are the thoughts that fo...', category 'governance', 10 likes.
- Post 2:** Profile picture of Gergana Petrova, name 'Gergana Petrova', date '17 Nov 2020', title 'IGF 2020 Liveblog', text 'The 15th annual meeting of the Internet Governance Forum (IGF) will be taking place online from 9-17 November with pre-events happening from 2-6 November. Our staff will be sharing key moments and takeaways from the sessions they attend. Check this page each day for the latest issues, arguments and...', category 'governance', 0 likes.
- Post 3:** Profile picture of Maxim Burtikov, name 'Maxim Burtikov', date '11 Nov 2020', title 'Russia Regulatory Update', text 'This is the first in a series of updates on Russian Internet regulation where we'll be bringing you a brief overview of the most pertinent digital policies currently being proposed, debated and implemented in Russia. While we're not aiming to give a complete overview of all of the existing legislat...', category 'country governance', 20 likes.
- Post 4:** Profile picture of Marco Hogewoning, name 'Marco Hogewoning', date '10 Nov 2020', title 'Update on WTS-20 Preparations and New IP', text 'As planning for the next World Telecommunication Standardization Assembly (WTS-20) continues, proposals around New IP and challenges from COVID-19 continue to draw focus.', category 'events governance', 0 likes.



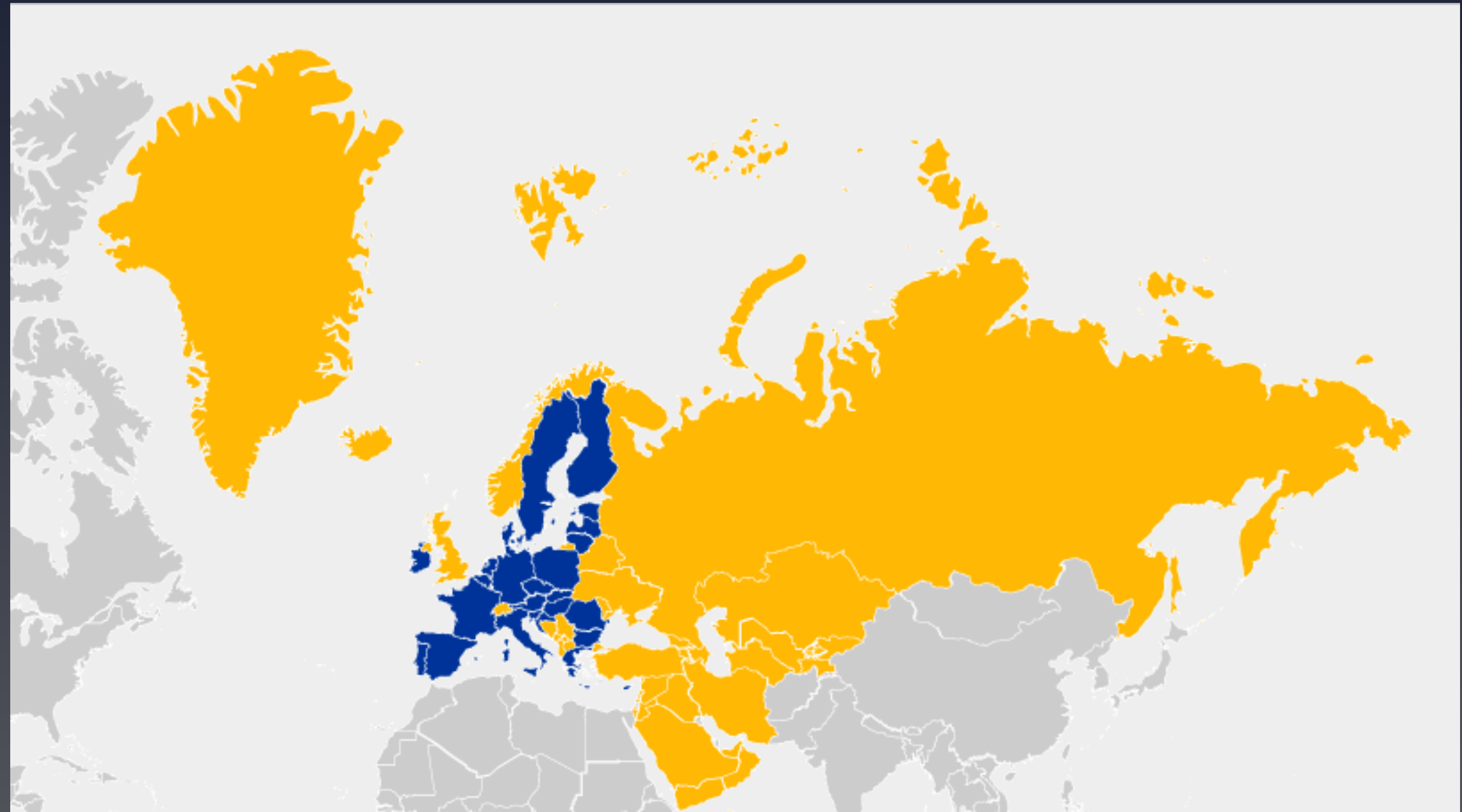
# **A few observations**



# RIPE NCC Service Region



- 76 countries in our service region:
  - Europe
  - Middle East
  - Central Asia



# Challenges



- Navigating geopolitical tensions
- Proactively defending the Regional Internet Registry (RIR) system and ‘multistakeholderism’
- Keeping core Internet functions separate from politics
- Mitigating unintended consequences of public policies
- Maintaining a stable core infrastructure that enables a global, unfragmented and interoperable Internet

# Executive Board Statement on Sanctions (2014)



“The Executive Board of the RIPE NCC believes that the means of communication should not be affected by political discussions or disputes. This includes the provision of correctly registered Internet numbering resources.

The Executive Board of the RIPE NCC is committed to taking all lawful steps available to ensure that the RIPE NCC can provide uninterrupted services to all members across our service region. The RIPE NCC and its staff can not and will not take positions with regard to specific political disputes.

The RIPE NCC will publicly document all efforts to ensure that provision of registration services is not disrupted by laws, regulation or political developments.”

<https://www.ripe.net/publications/news/about-ripe-ncc-and-ripe/executive-board-resolution-on-continuity-of-services-to-all-ripe-ncc-members>

# Preserving a Single Internet



- Naming, numbering and routing are fundamental to how the Internet works
- The value and benefits we get from the Internet are deeply rooted in it being an open, single, stable network of networks, global in nature and accessible to all
- We need to work together to keep it that way



# Questions



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