



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

The Internet Landscape in Spain

As Seen by the RIPE NCC

Suzanne Taylor | 16 November 2021 | ESNOG-27



- One of five **Regional Internet Registries** in the world
- Also provide a number of **technical services** and **tools**:
 - K-root
 - RIPE Atlas
 - RIPEstat
 - RIS
- Involved in **public policy** discussions and **Internet governance**

RIPE NCC Internet Country Reports

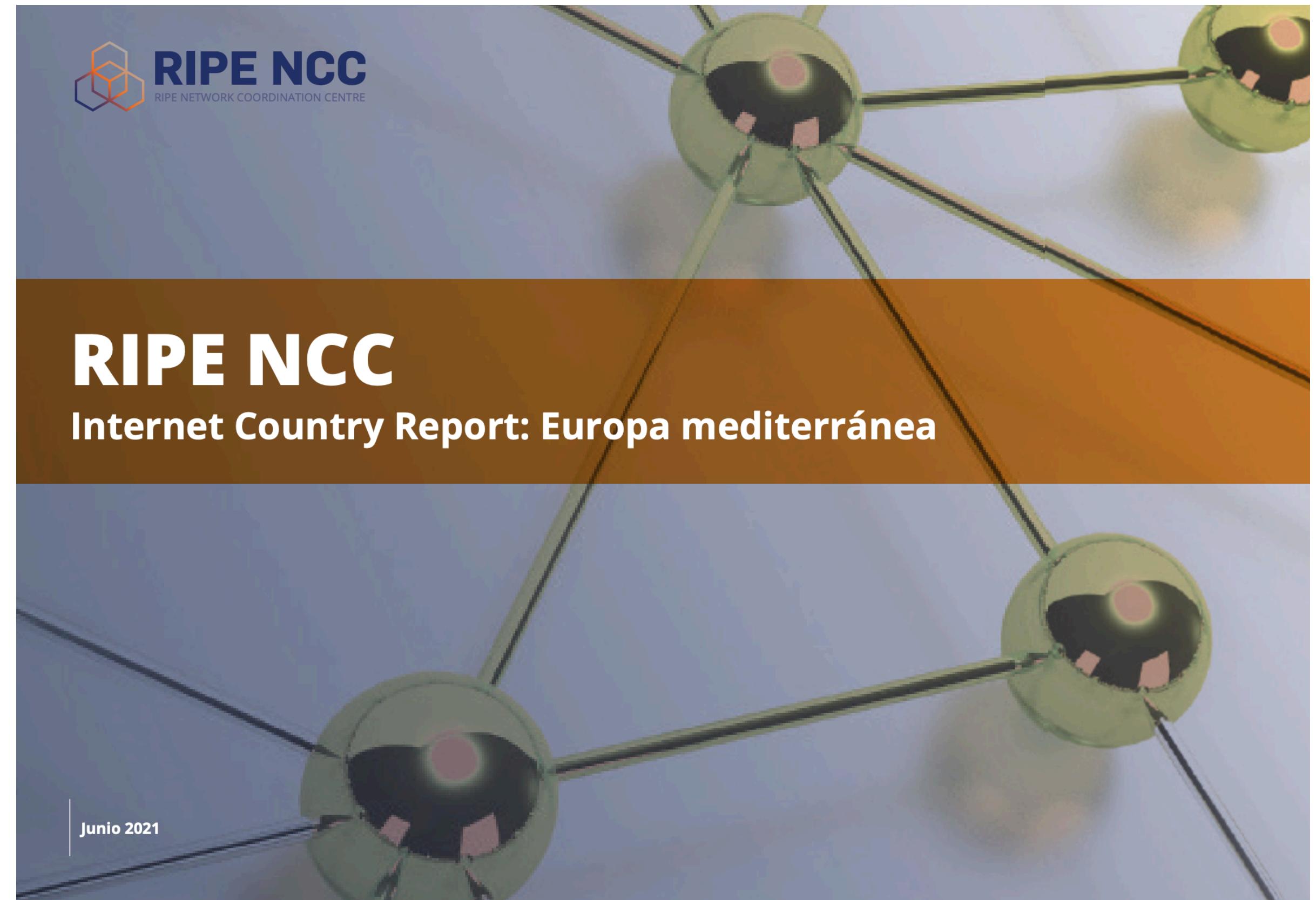


- Showcase RIPE NCC data and measurement platforms
- Bring value to local technical communities
- Support Internet development throughout service region
- Inform public policymaking

RIPE NCC Internet Country Report



- Mediterranean Europe report published end of June
<https://labs.ripe.net/country-reports/>
- Covers Spain, Portugal, France, Italy and Greece
- Spanish language version





Highlights

- Advanced Internet **development**
- **IPv4** shortage not urgently pressing but **IPv6** still needed
- **IPv6** capability very low in Spain
- **Routing** is generally optimised
- Diversity in **international connectivity**



Figure 1:
Number of Local Internet Registries over time

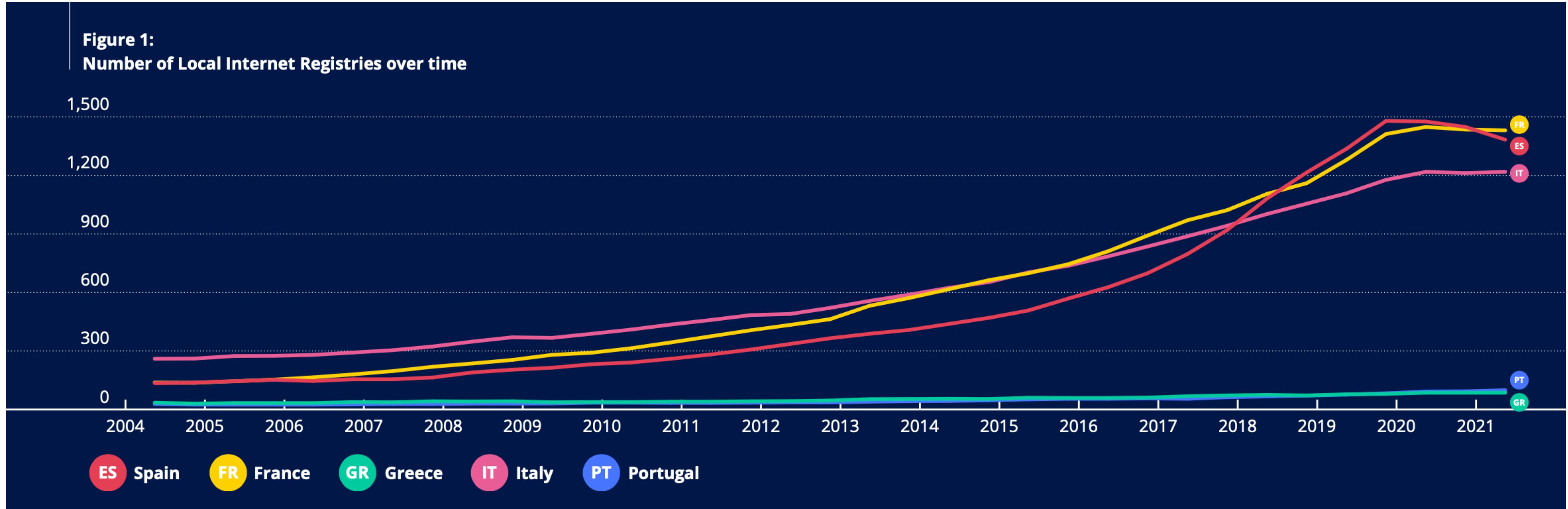




Figure 4:
IPv4 holdings by organisation

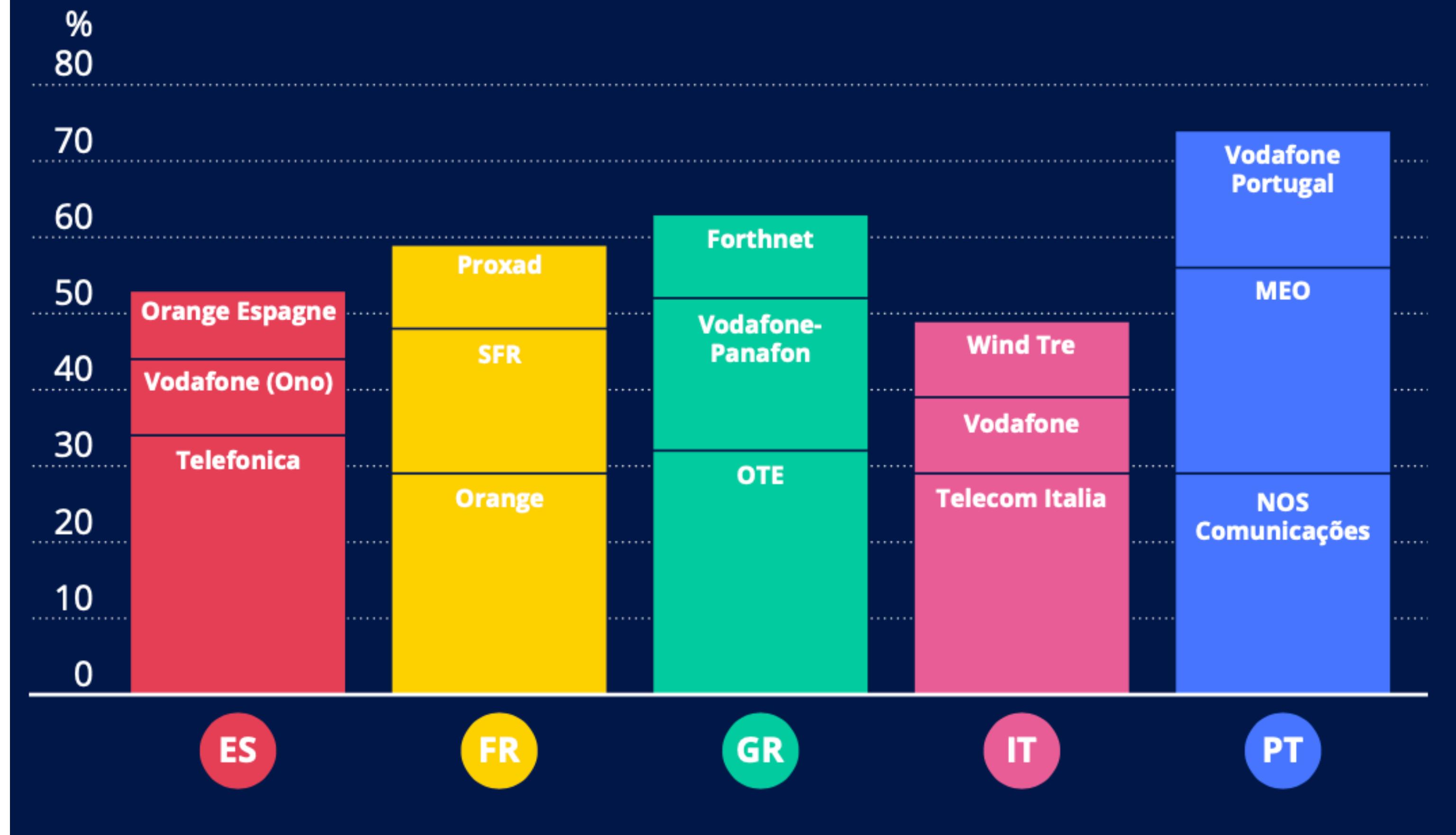
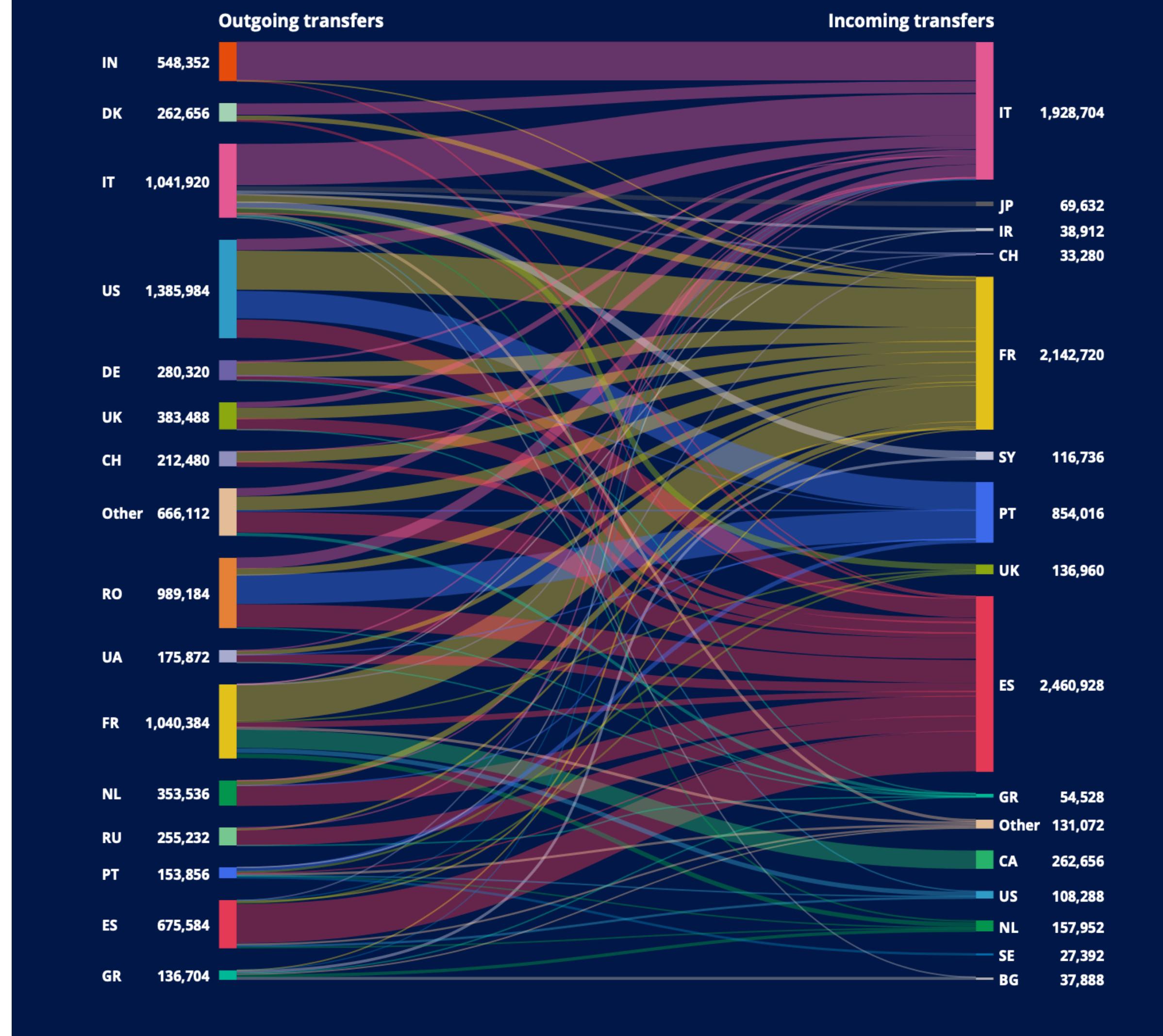




Figure 5:
IPv4 transfers within, into and out of Mediterranean Europe between December 2016 and May 2021



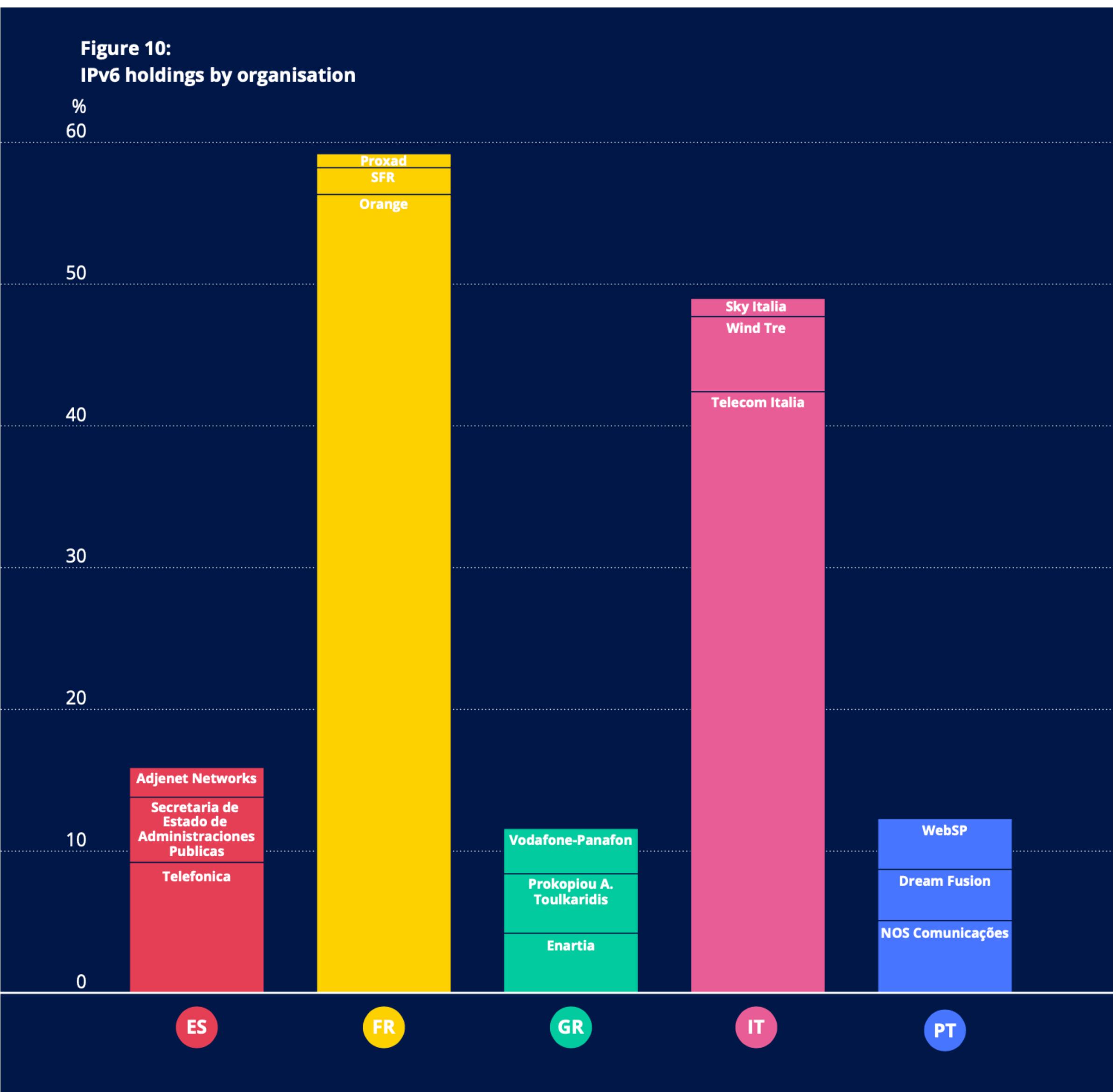




Figure 11:
IPv6 deployment rates

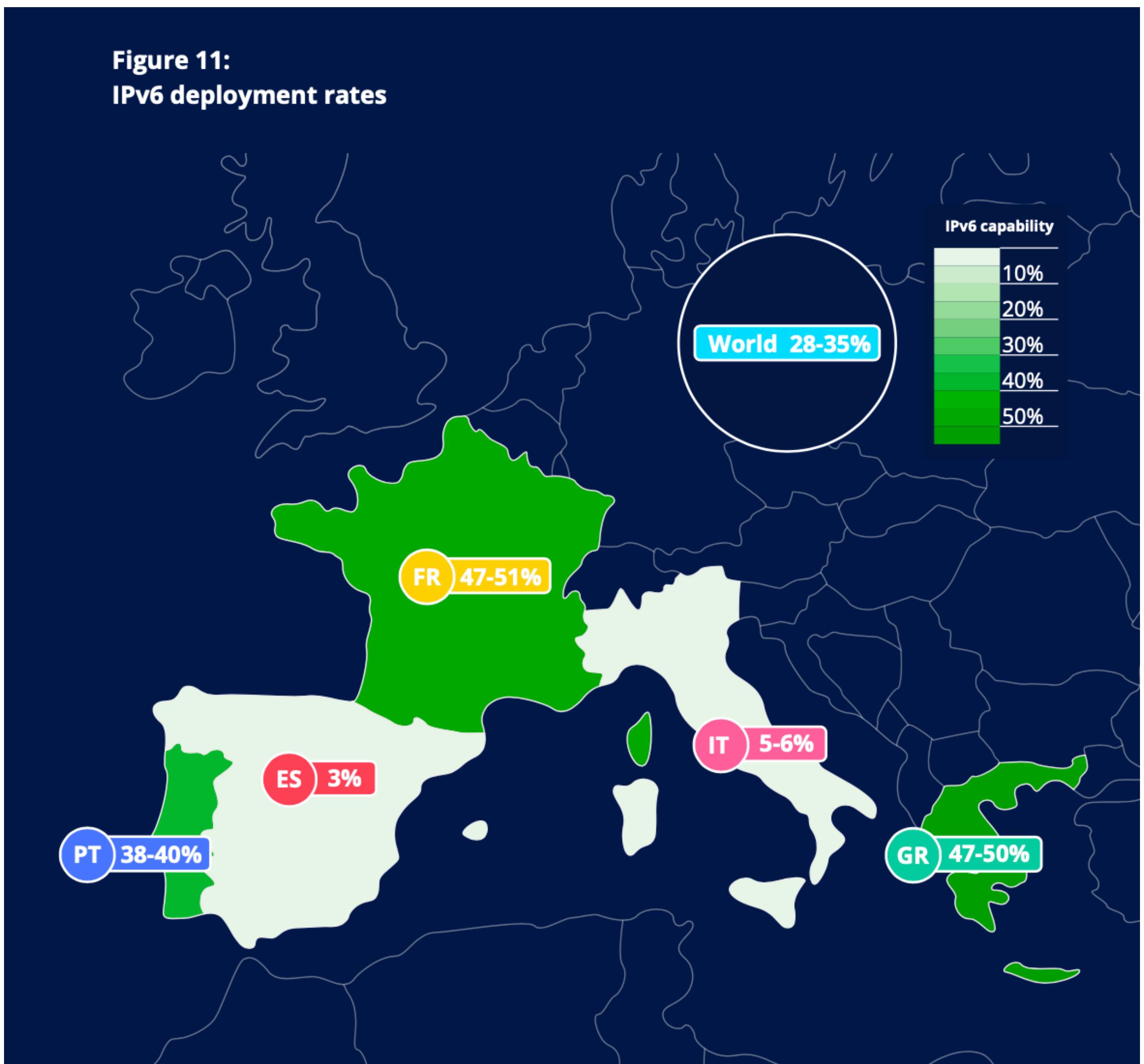




Figure 13:
Connectivity between networks in Spain

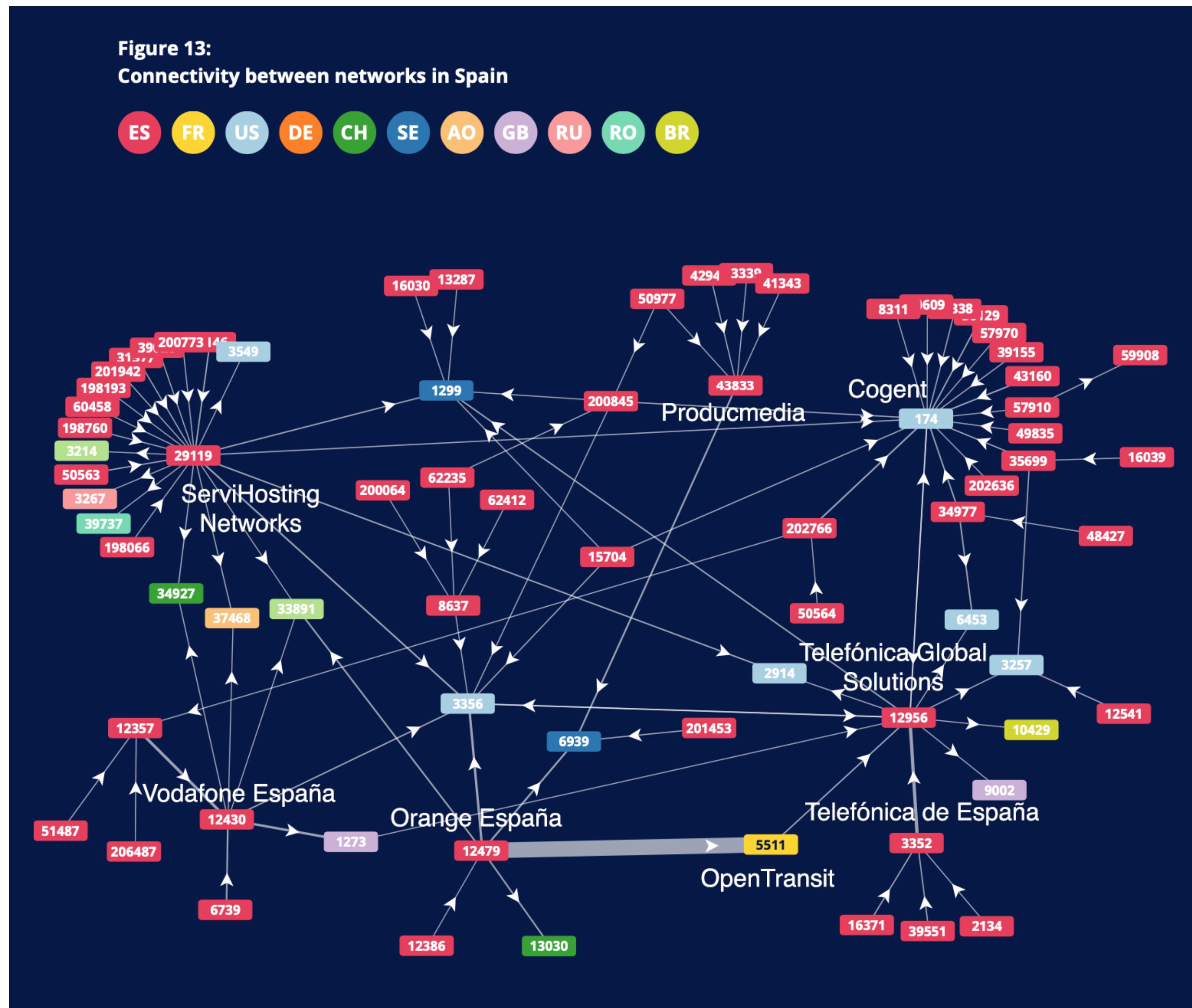




Figure 19:
Spain's international connectivity

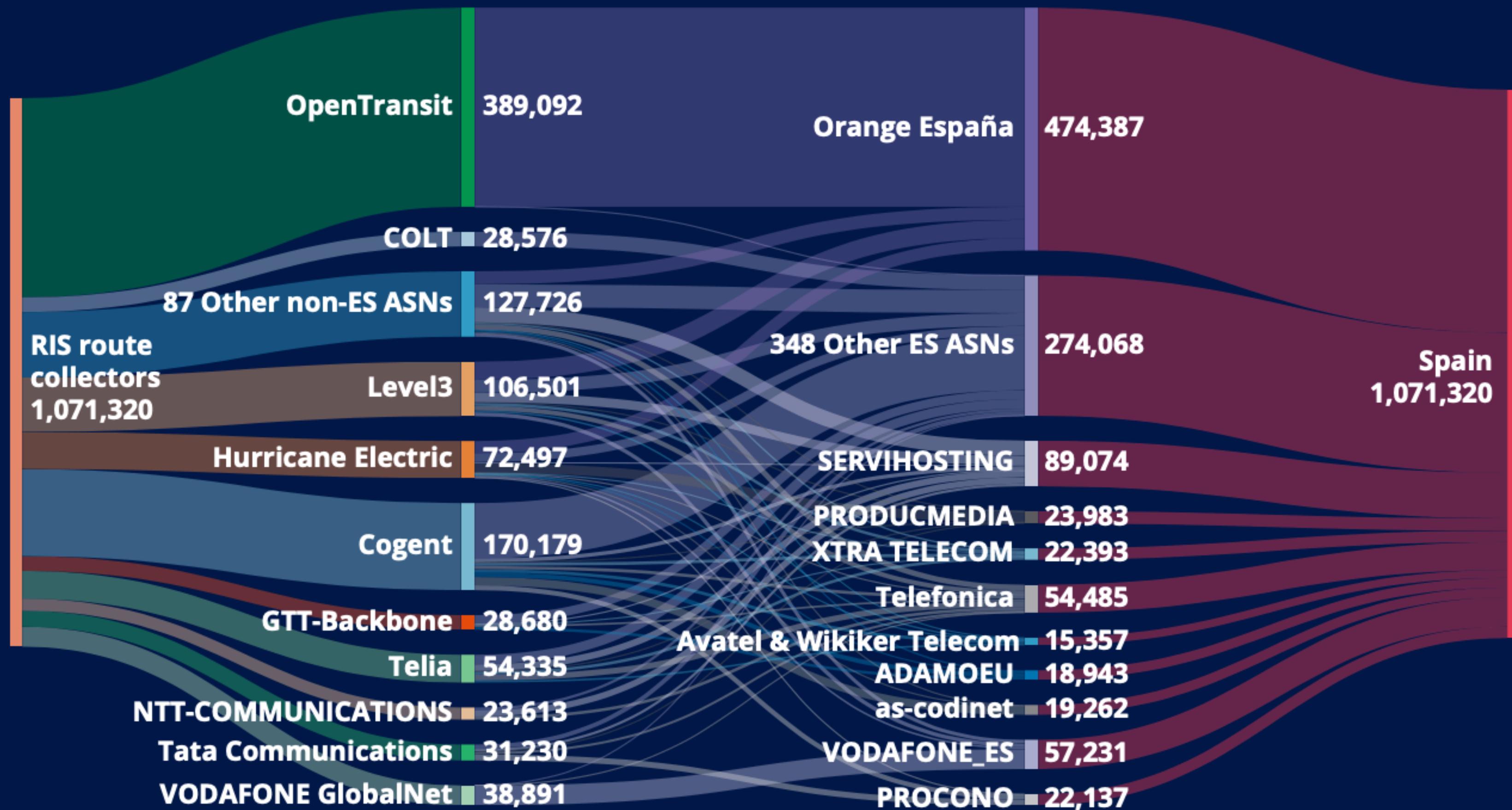




Figure 22:
K-root locations reached from within Mediterranean Europe (IPv4)

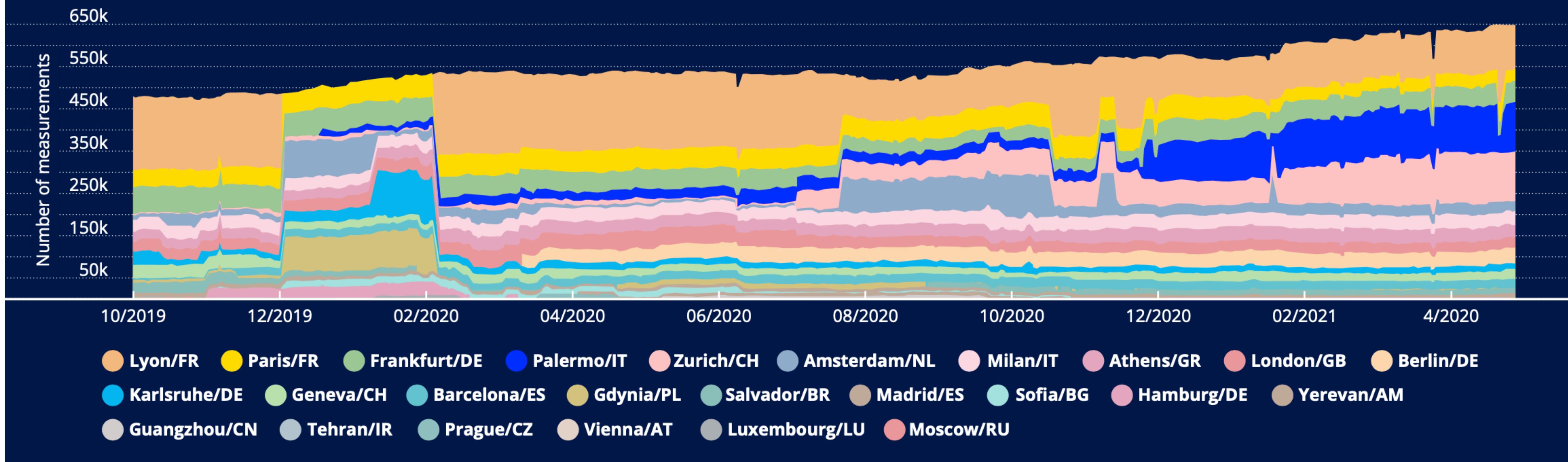




Figure 27:
Paths between origin and destination in Spain (IPv4)

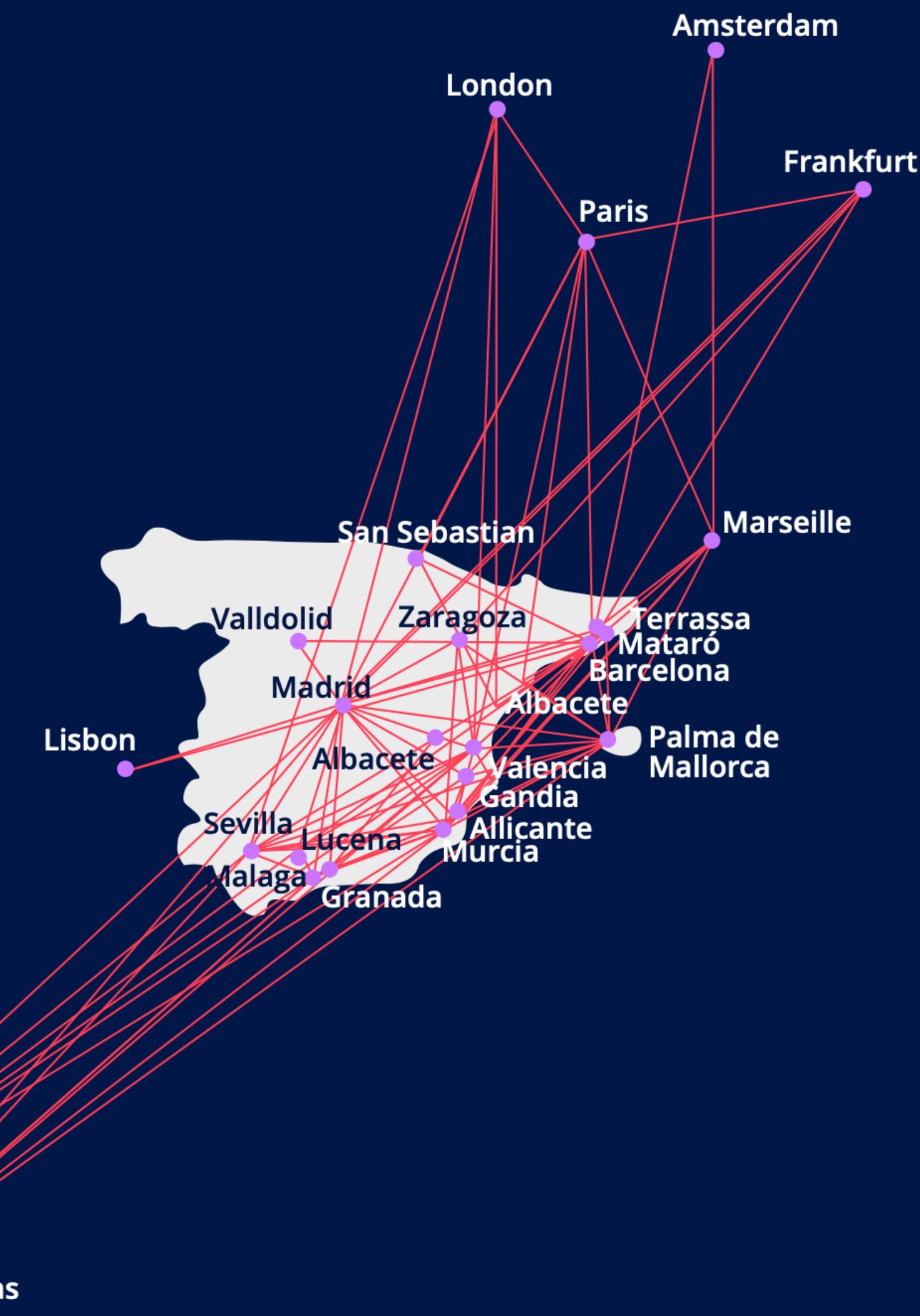
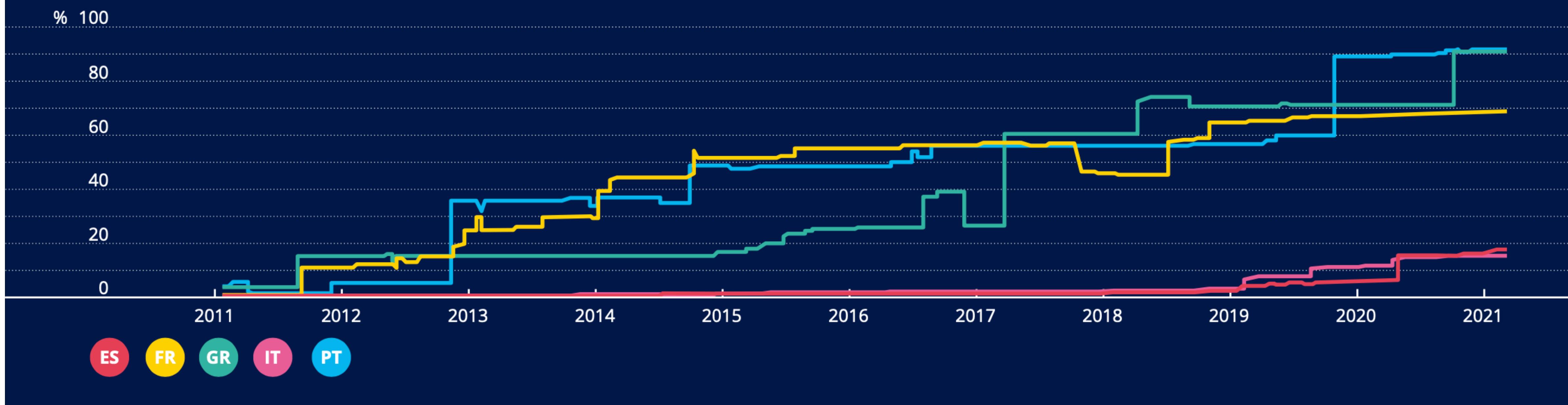




Figure 29:
IPv4 address space covered by RPKI



A few parting thoughts...



- These reports are always evolving
- Please get in touch and tell us what you want!
- YOU can use this data, too

<https://labs.ripe.net>



Questions



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