

Registry

Alena Muravska | 19 March 2024 | iNET Meeting, Zakopane

Navigating IP Addresses

Insights from Your Regional Internet



Who Are We?

- The RIPE NCC is a not-for-profit membership association
- We allocate and register Internet number resources (IPv4, IPv6 and ASN) for RIPE NCC members and so-called End Users
- We provide data services for network operators
- We organise bi-annual RIPE meetings

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Poland: Some Statistics

- 687 members and 737 LIRs
- 2,533 ASNs
- 71,842 allocated IPv4 /24s
- 6,194 allocated IPv6 /32s

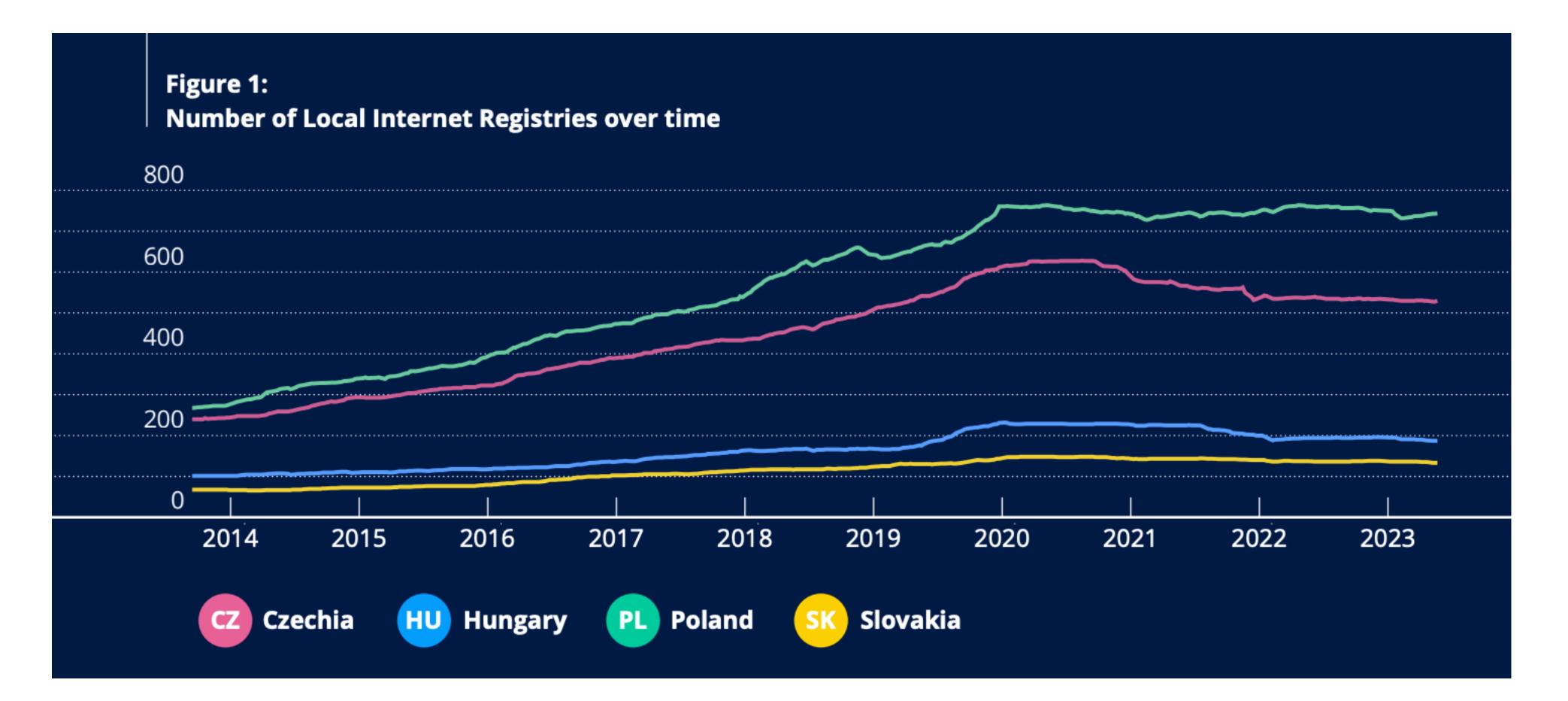
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9th of 10 biggest memberships in the RIPE NCC service region

Number of LIRs over Time



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IPv4 Depletion - New IPv4 Policy

- On 25 November 2019, the new policy kicked in
- Each LIR can receive one /24 allocation (256 addresses) from the waiting list
- Only LIRs that have never received an IPv4 allocation from the RIPE NCC before can receive one /24 allocation from the RIPE NCC

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IPv4 Addresses in 2024

- Waiting list for returned address space: https://www.ripe.net/ ipv4-waiting-list
- LIRs in queue: 962
- Days that the first LIR in the queue has been waiting: 453





1400

1200

1000

800

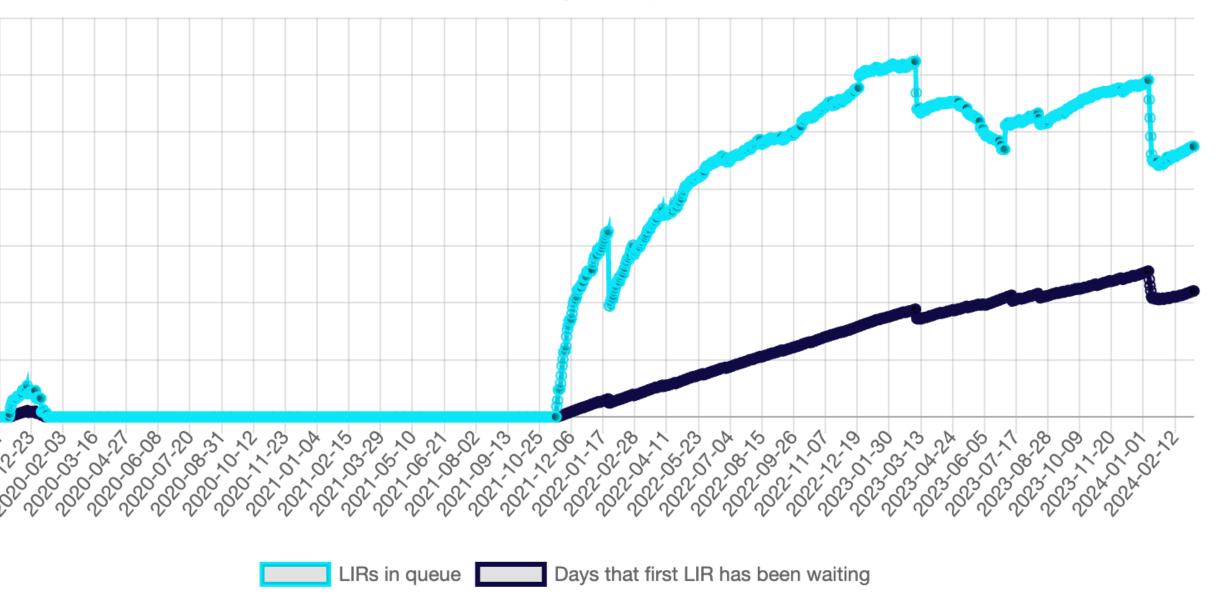
600

400

200



IPv4 Waiting List Graph



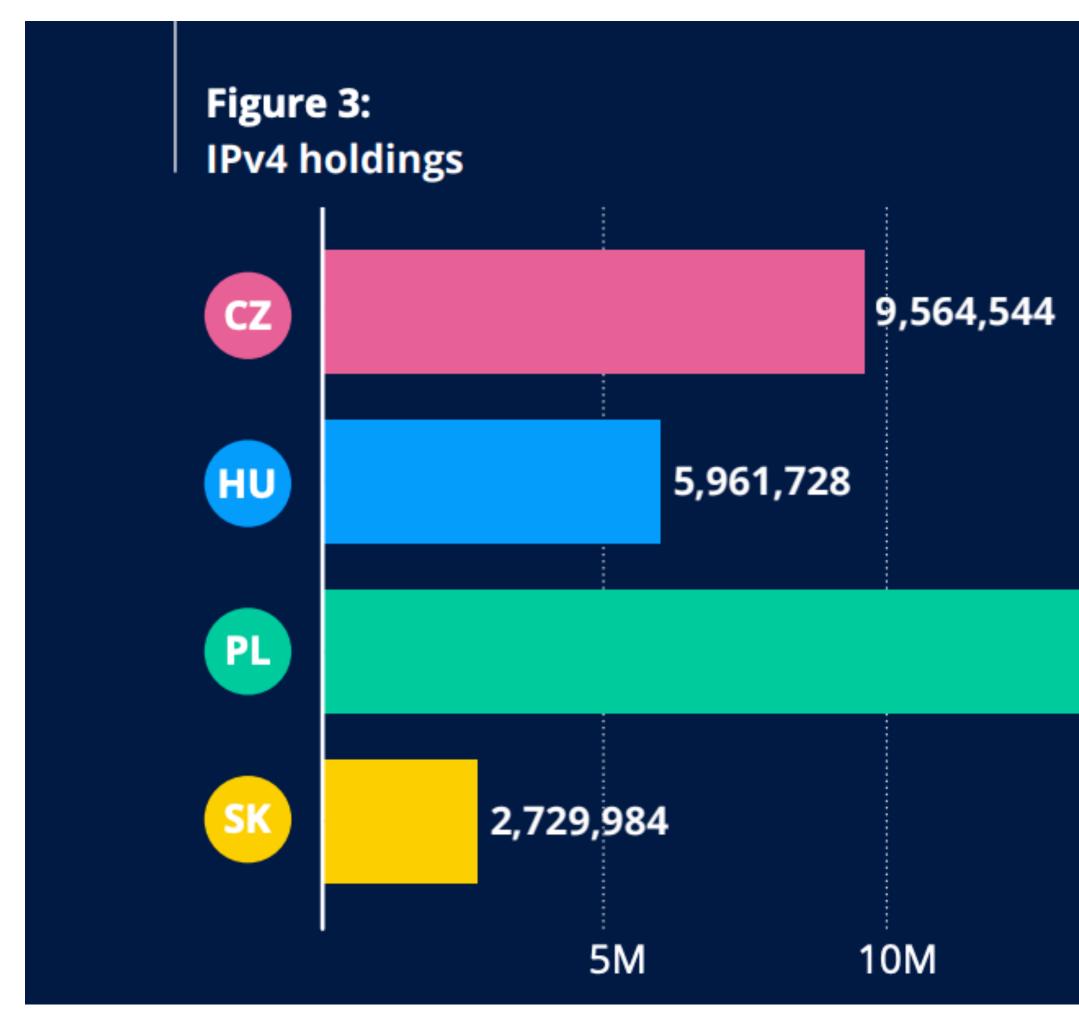
The Waiting List and Polish LIRs?

- Since November 2021, when the IPv4 waiting list became active, 62 Polish LIRs have received a /24 allocation
- Presently, there are 32 Polish LIRs (out of 442) waiting to receive a /24 from the IPv4 waiting list

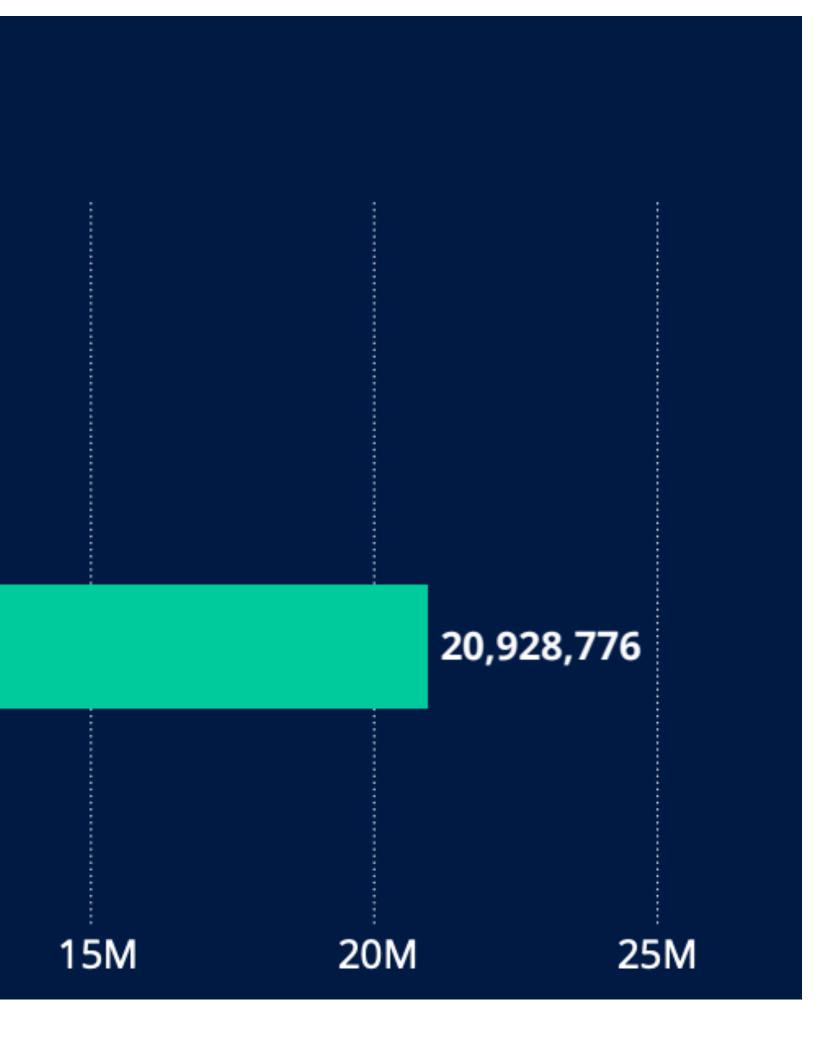
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IPv4 Holding in Poland (1)

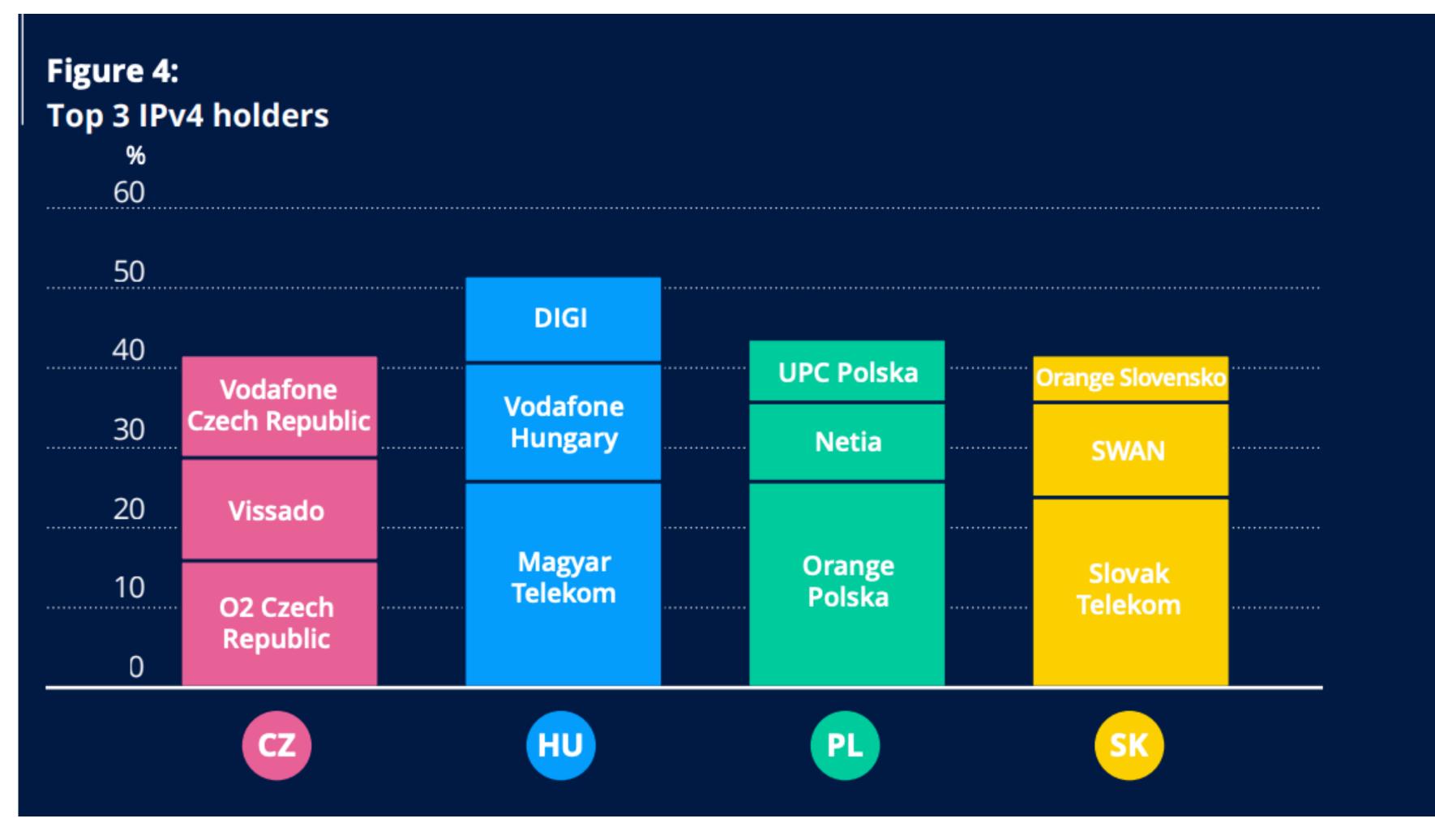


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IPv4 Holding in Poland (2)









If You Need More IPv4 Addresses

- IPv4 allocations:
 - Can be transferred between LIRs
 - 24-month holding period after a transfer
- IPv4 Provider Independent (PI) Assignments:
 - Can be between LIRs and End Users
- Based on the current RIPE Resource Transfer Policy
- Inter-RIR transfers are now possible







Transfers: Check in Advance!

• Completed transfers published on our website:

https://www.ripe.net/manage-ips-and-asns/resource-transfers-and-mergers/transfers/ipv4/ ipv4-transfer-statistics

- RIPE NCC Transfer History RIPEstat
 - Transfer widget: <u>https://stat.ripe.net/widget/ripe-transfer-history</u>
 - Registration check (prefix): <u>https://stat.ripe.net/app/use-cases/prefix/registration-</u> check/
 - Registration check (single IP) https://stat.ripe.net/app/use-cases/ip/registration-check/

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Be Aware of the Risks

- "Buying" or "renting" of IPv4 check what this means
- RIPE Policies must be applicable
- Protect yourself!
 - Verify contacts of transferring party
 - Verify if transferring company is active
 - Verify if transferring party is the legitimate holder
 - Verify if resources are eligible for transfer (IPv4 Transfer Statistics)
- We are here to help and to provide guidance
- Contact us via <u>lir-help@ripe.net</u>



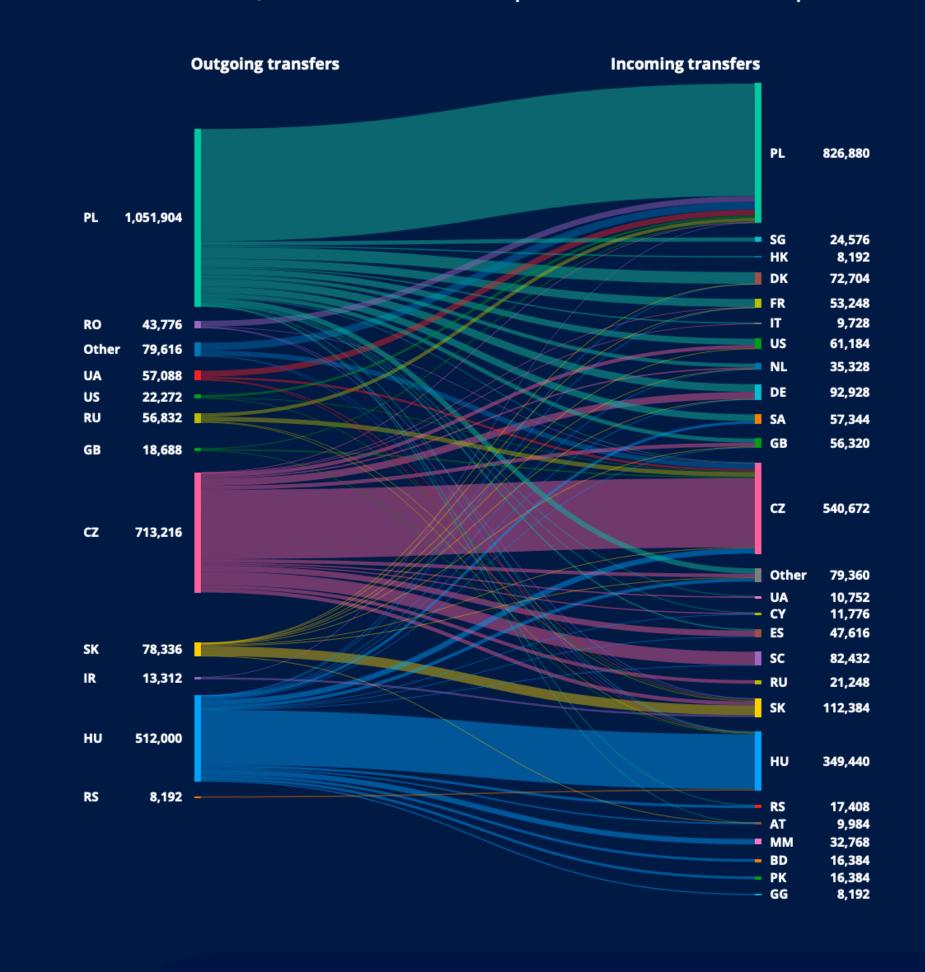




IPv4 Transfers

Figure 5:

IPv4 transfers within, into and out of Central Europe between October 2012 and April 2023







On to IPv6 - Members

- Members can receive their first IPv6 allocation if:
 - You confirm you have a plan for making assignments within two years
- Allocation size
 - The minimum allocation size is /32
 - Can be extended up to /29 without additional justification
 - You must provide technical documentation if you request an allocation that is larger than /29 or a subsequent allocation
- Address space from allocations can be further assigned to third parties (your customers)

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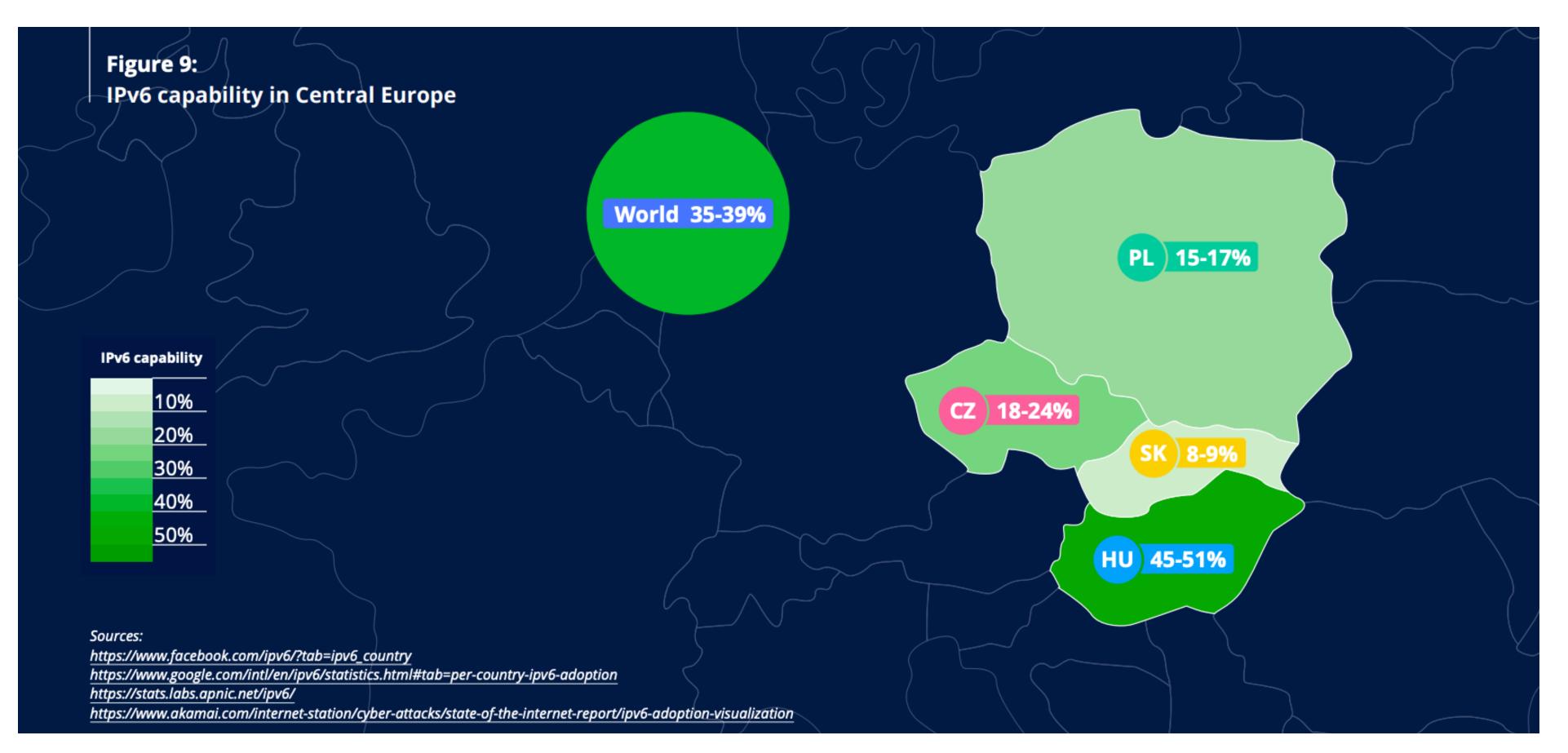
On to IPv6 - Non-Members

- Non-members can request an IPv6 Provider Independent (PI) assignment for their own infrastructure
 - The minimum size of the assignment is /48
 - You must provide technical documentation if you request an assignment that is larger than /48
 - The PI assignment cannot be further sub-assigned to other organisations





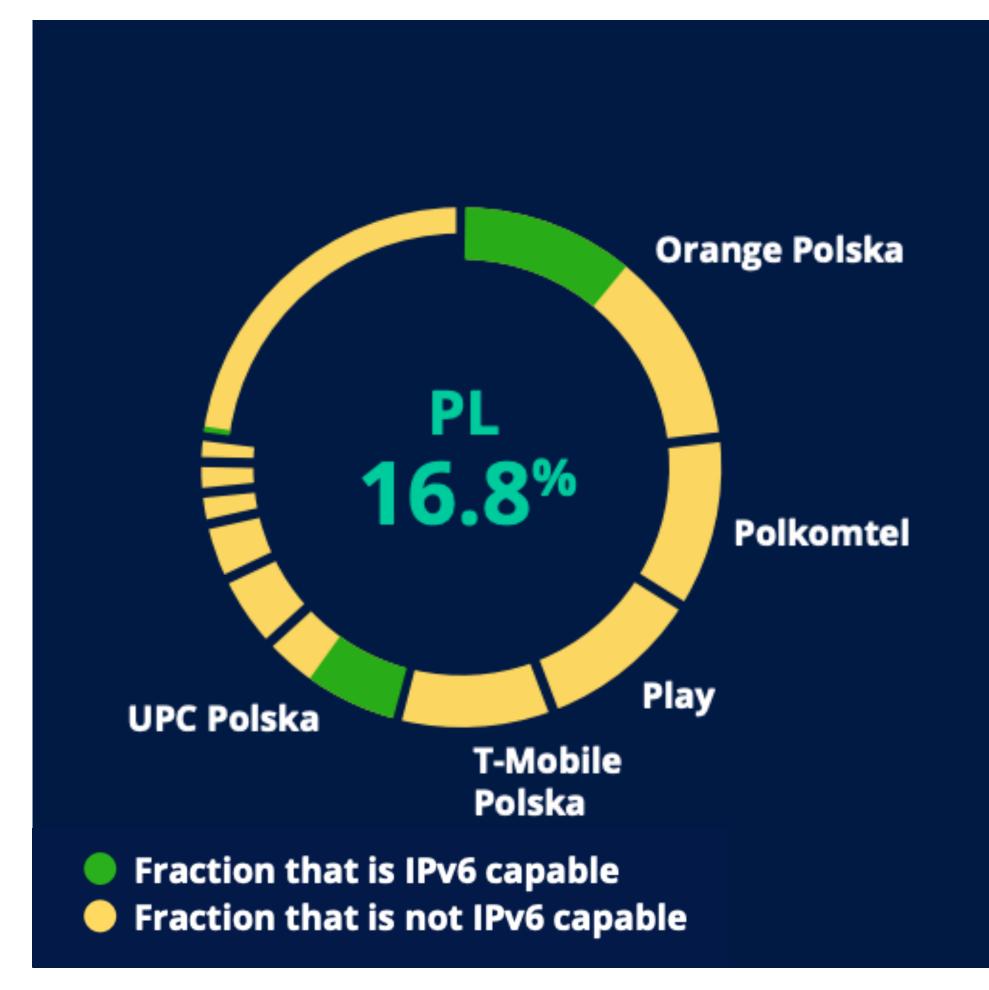
IPv6 Capability in Poland







IPv6 Capability by Network



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Do You Want to Know More?

- Talk to me at the meeting
- Use our free learning opportunities: <u>https://</u> <u>learning.ripe.net/w/</u> <u>upcoming/</u>
- Read the RIPE NCC Internet Country Report
- Come to RIPE 88 in Krakow

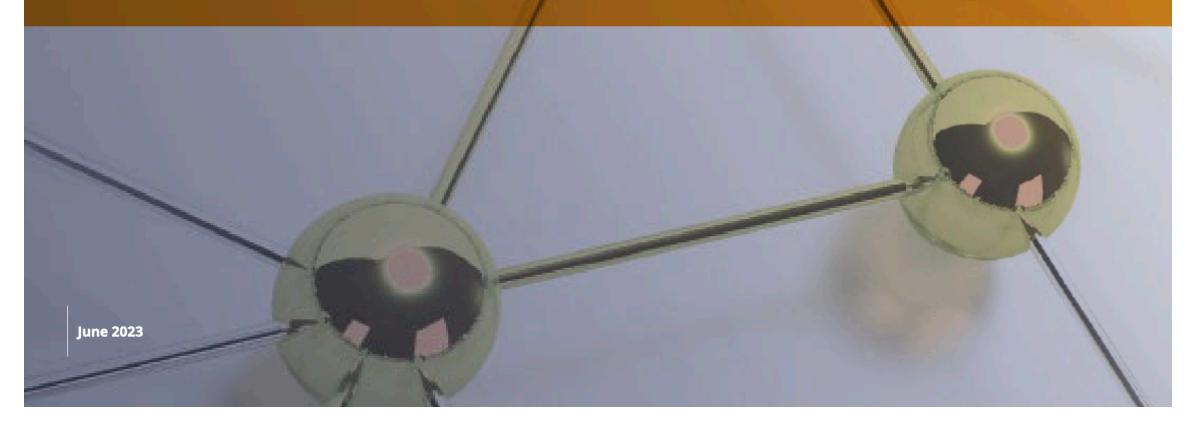
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RIPE NCC

Internet Country Report: Central Europe







Join us at the GENERAL EFIC



22 - 24 May 2024

Questions



