



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

Feedback from RIPE NCC Registration Services

Marco Schmidt | RIPE 86 | 24 May 2023

Overview



- Update on IPv4 Waiting List
- Temporary transfers
- Out-of-region ASN requests

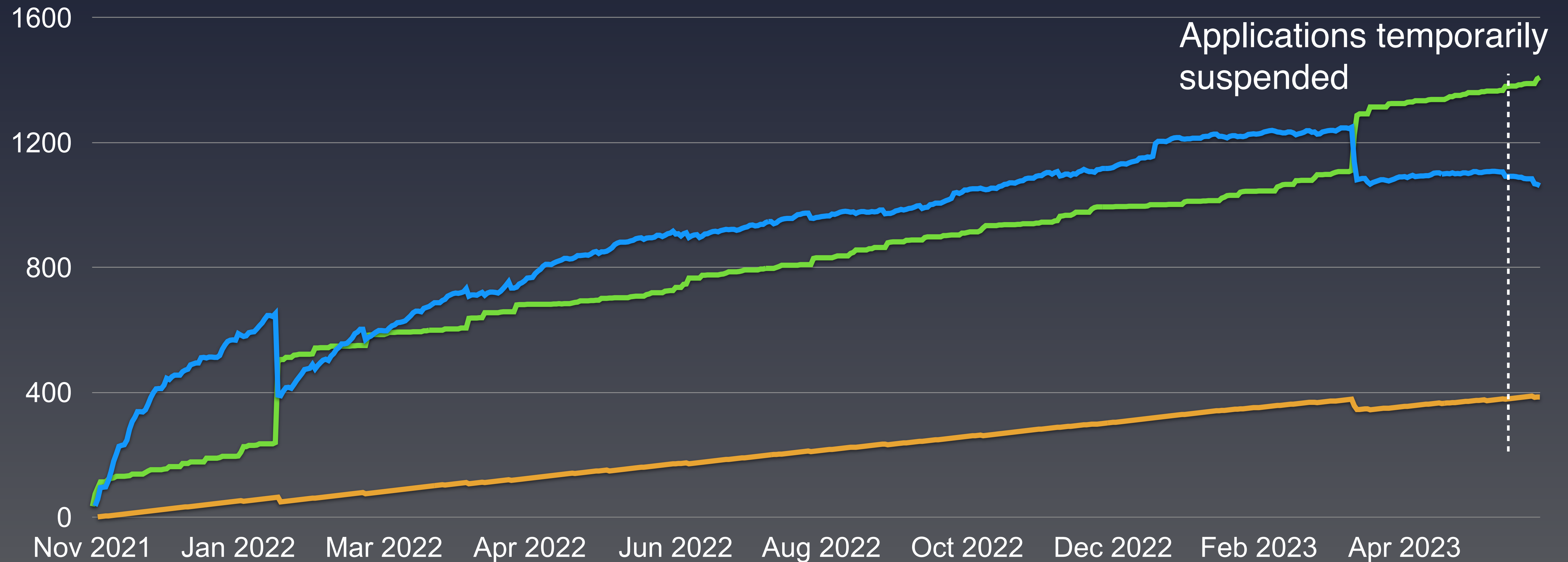


IPv4 Waiting List

IPv4 Waiting List



— LIRs waiting — /24s issued — Days that first LIR in queue has been waiting



Looking Back



- Around 1,400 /24 allocations made since waiting list became active on 17 November 2021
- The next LIR in line to receive an allocation has been waiting since April 2022
- New waiting list applications were suspended on 26 April 2023 following a board resolution (does not affect LIRs already on the list):
 - <https://www.ripe.net/publications/news/announcements/board-resolution-to-temporarily-suspend-ipv4-waiting-list-applications>

Looking Ahead (1)



- Over the next six months, we will make around 300 /24 allocations from our recovered IPv4 pool
- These addresses come from:
 - 25 allocations (101 /24s)
 - 126 assignments (201 /24s)

Looking Ahead (2)



- Allocations ultimately reliant on future de-registrations of IPv4
- Currently this is around 30 /24s per month
- Amount of de-registration will continue to decrease
- Estimated waiting time for LIRs that recently joined the waiting list: **24 months**



Temporary Transfers

RIPE Policy Specifications



“Transfers can be on a permanent or non-permanent basis.

[...]

In the case of a temporary transfer, the original resource holder re-assumes responsibility when the resource is returned.”

- <https://www.ripe.net/publications/docs/ripe-682#2-1-transfer-requirements>

Observations



- 86 temporary transfers have been completed so far
 - 173 resources transferred, but only 114 were unique (meaning same resource is transferred multiple times)
 - Of these 114 resources, 61 were transferred to the same destination more than once
- 42 temporary transfers are currently active
- This is gradually becoming more common

Reasons for Temporary Transfers



- Wanting to use resources only for particular period of time
- Recipient wants the resources under own account/name
- Allows them to use RPKI

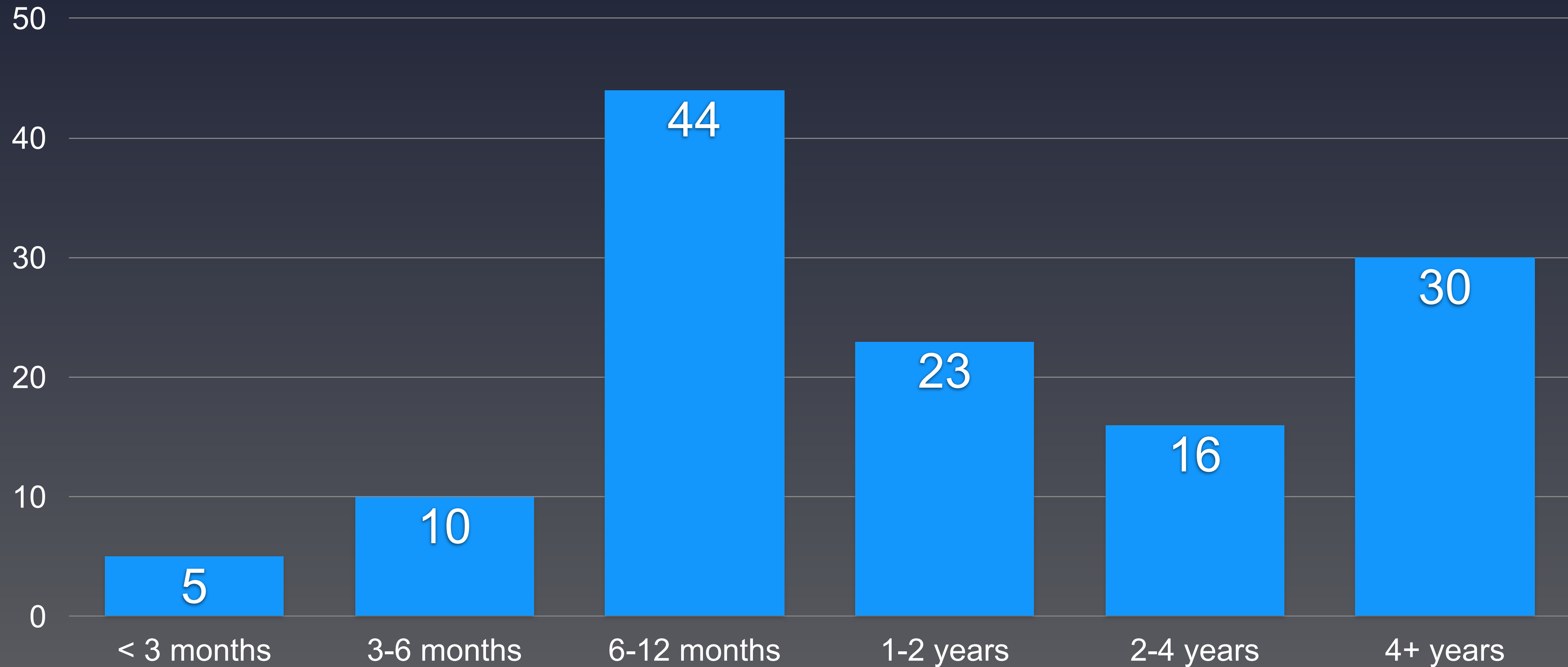
Organisation pays to receive Internet number resources for a specific period of time => AKA '**Leasing**'

Permanent vs Temporary Transfers



	Permanent Transfer	Temporary Transfer
Registry Updated	Yes	Yes
Published	Yes	Yes
Holding period for IPv4 and 16-bit ASNs	24 months	N/A
Transferable	Yes	No
De-registration	To RIPE NCC's pool	To original holder

Transfer (Leasing) Periods



Complications



- What if...



Termination



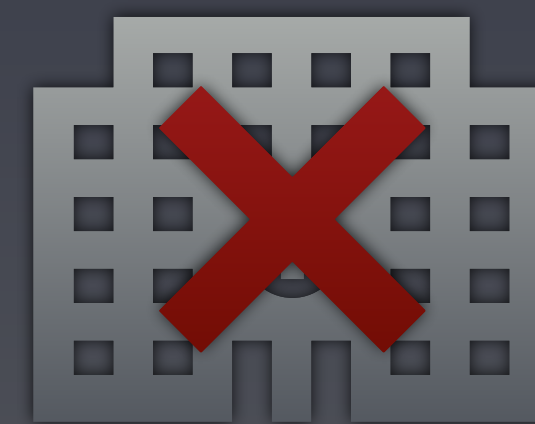
Fraud



M&A



Court Order



Liquidation



Sanctions

Solutions



- Better policy definitions and regulation of temporary “transfers”
 - Time limits, publication rules, regulations

Alternatively

- Consider abandoning the concept of temporary “transfers”
 - RIPE is the only region that has this concept
- Similar outcomes can be achieved with existing concepts:
 - PA assignments and sub-allocations
 - Hierarchical concept of RPKI can be adjusted

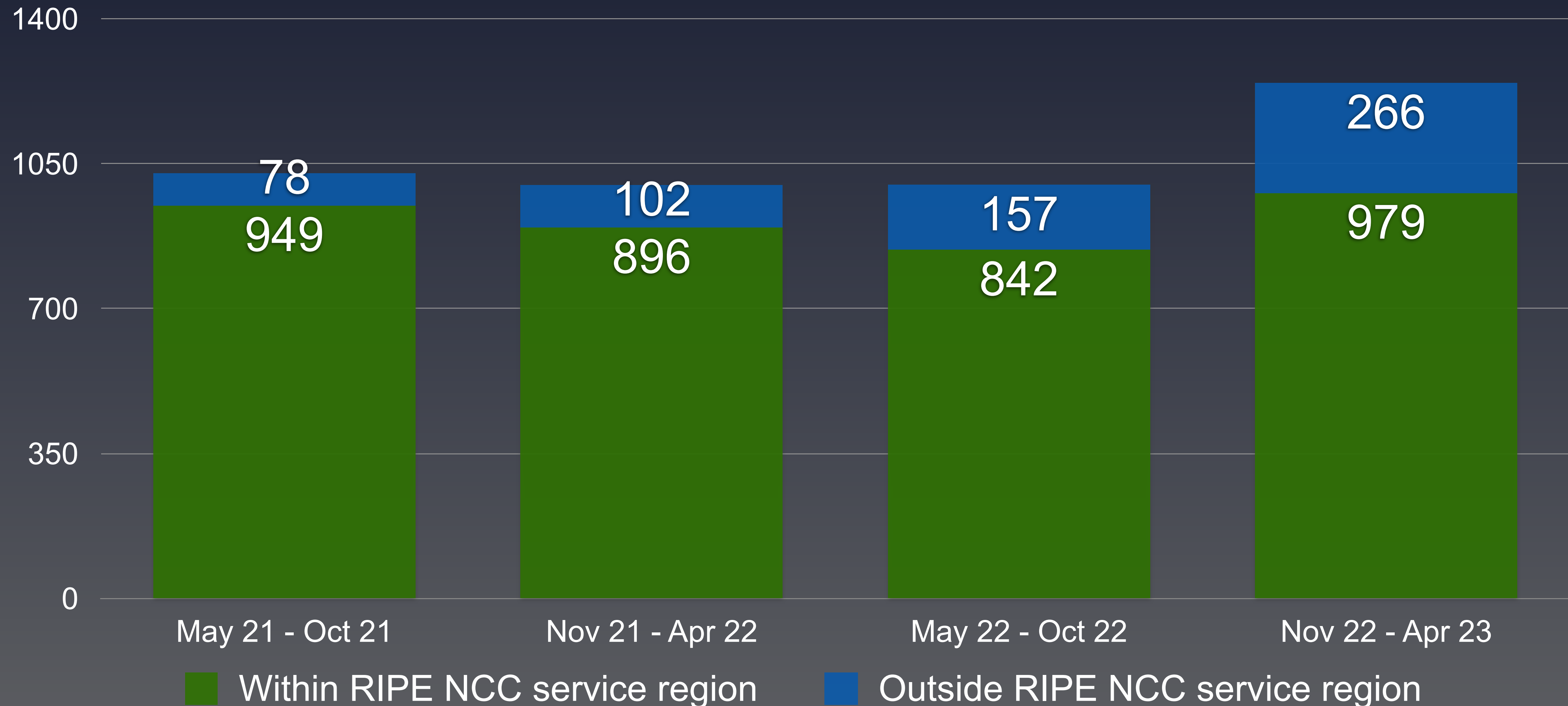


Out-of-region ASN Requests

Where are ASN Holders Based?



ASN requests per six months

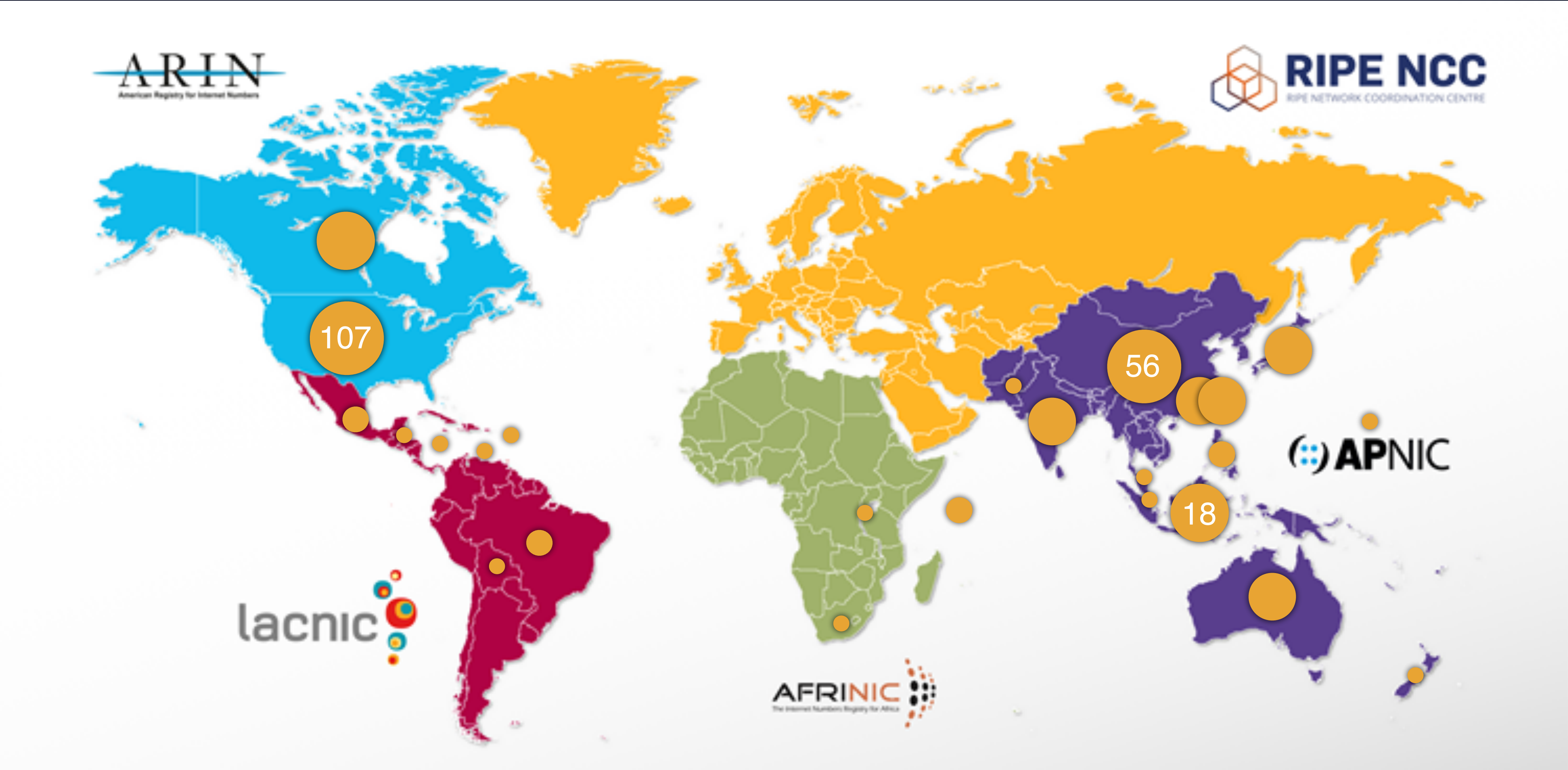


What is Driving This?



- A few providers emphasise in their promotion that they can get their customers an ASN from the RIPE NCC
 - No reference to service region concept in their advertisement
 - Minimal proof is provided in their requests
- Currently we do not charge for ASNs
- Other RIRs have higher thresholds for natural persons to receive resources or don't allow them at all
 - > 50% of the requests are for natural persons
 - Age of recipient ranges from 1 to 80 years

ASNs Assigned Outside RIPE NCC Service Region (Past Six Months)



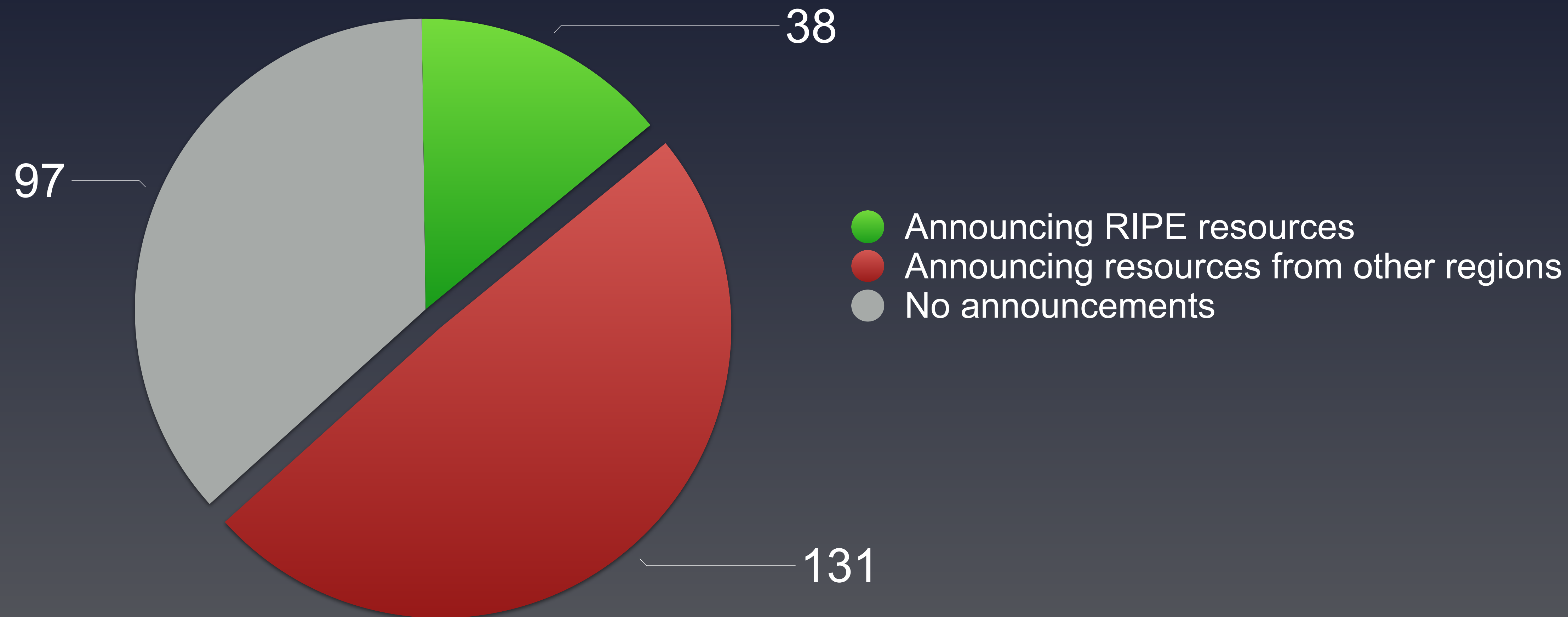
RIPE ASN Policy



*“This document describes the policies for the assignment of globally unique Autonomous System (AS) Numbers **within the RIPE NCC service region.**”*

<https://www.ripe.net/publications/docs/ripe-679>

Usage of ASNs Provided in the Past Six Months



Usage of ASNs Assigned Outside RIPE NCC Service Region (Past Six Months)



Consequences



- The RIR service region concept is being challenged
- This is creating considerable additional workload for RS
- Inefficient resource management (~1/3 of ASNs unused/not announcing address space)

Request for Feedback



- Should Registration Services apply the service region concept more strictly?
 - During the initial request and in later audits
- Do RIPE's ASN policies need an update?
- Are there ways to promote a more considered use of resources?



Questions & Suggestions

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