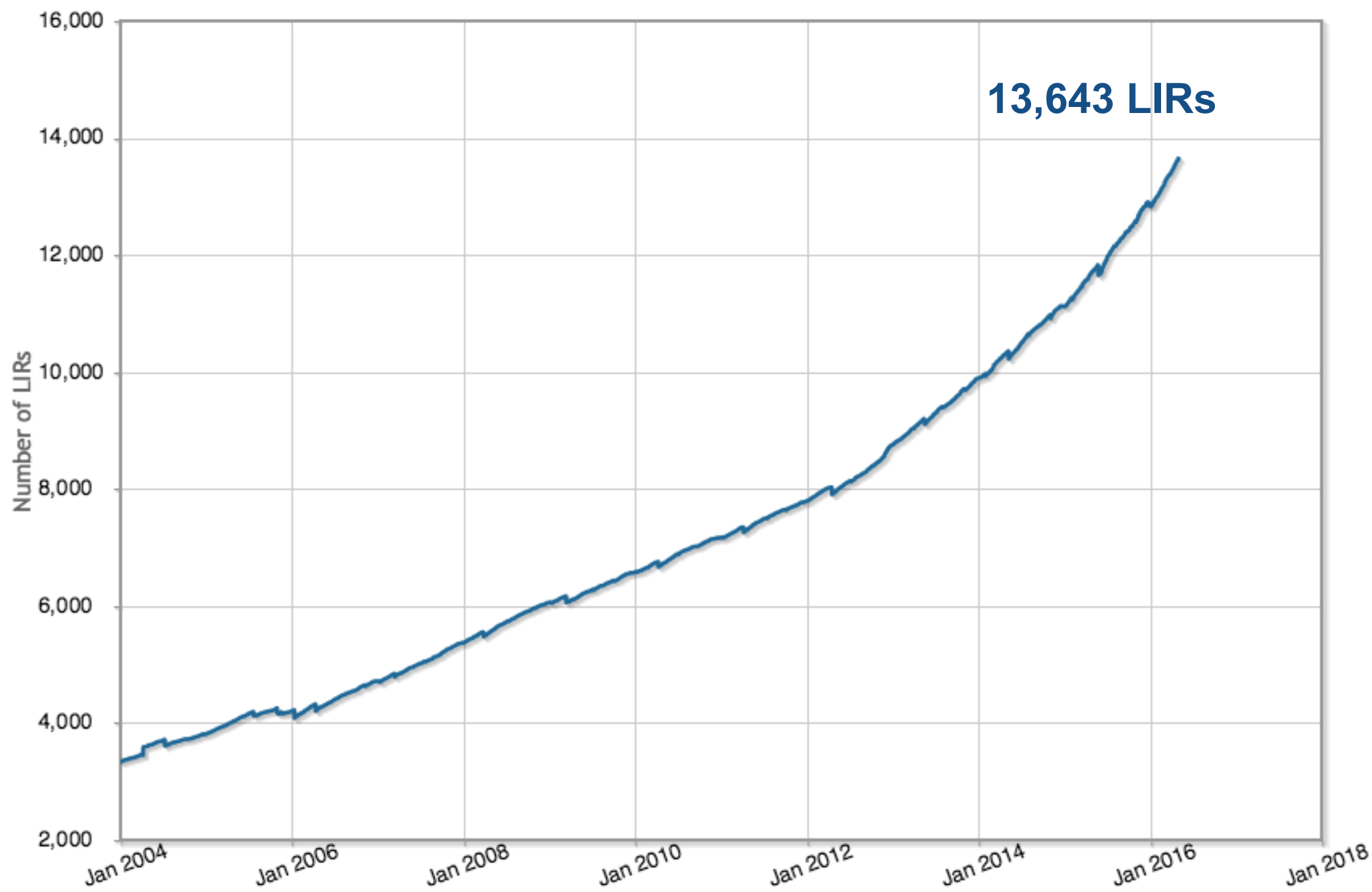# RIPE NCC Update

Axel Pawlik
Managing Director

There's A Lot Going On…

- A growing, changing membership

- A more regional approach

- Inter-RIR transfers

- Addressing the multiple LIR question

- Assisted Registry Checks

- RIPE NCC Academy

- And much more!

Growing Membership

13,643 LIRs

Who Are These New Members?

- Our membership is changing from simply ISPs, Telcos and NRENs

- Increasingly we're seeing banks, manufacturers, enterprise networks

- How will we introduce them to RIPE and encourage them to participate?

- Looking at how we categorise these organisations in our membership statistics

- RIPE NCC Survey in 2016 will try and gather their priorities and perspectives

More Engagement With Members

- Holding lightweight "member lunches" in cities where our staff already have another engagement

- Meetings last 2-3 hours and attract 20-30 members

- Typically we meet members who don't come to RIPE Meetings

- Members get an update on the latest news and a chance to meet with us in person - we get valuable feedback on their priorities

…And A More Regional Approach

- An office in Dubai, staff in Moscow

- MENOG, ENOG, SEE Meetings and one-off regional meetings

- Supporting NOGs and other forums wherever we can

- Translation project to make key documents available in local languages

- Monthly policy updates in Russian and Arabic

Resource Transfers

- All Internet number resources can be transferred within the RIPE NCC service region

- IPv4 transfers:

  - 919 in 2014 / 2,701 in 2015 / 502 so far in 2016

- Some IPv6 (85) and ASNs (212), mostly when all of an LIR's resources are transferred

Number of Transfers

139 IPv4 transfers last month
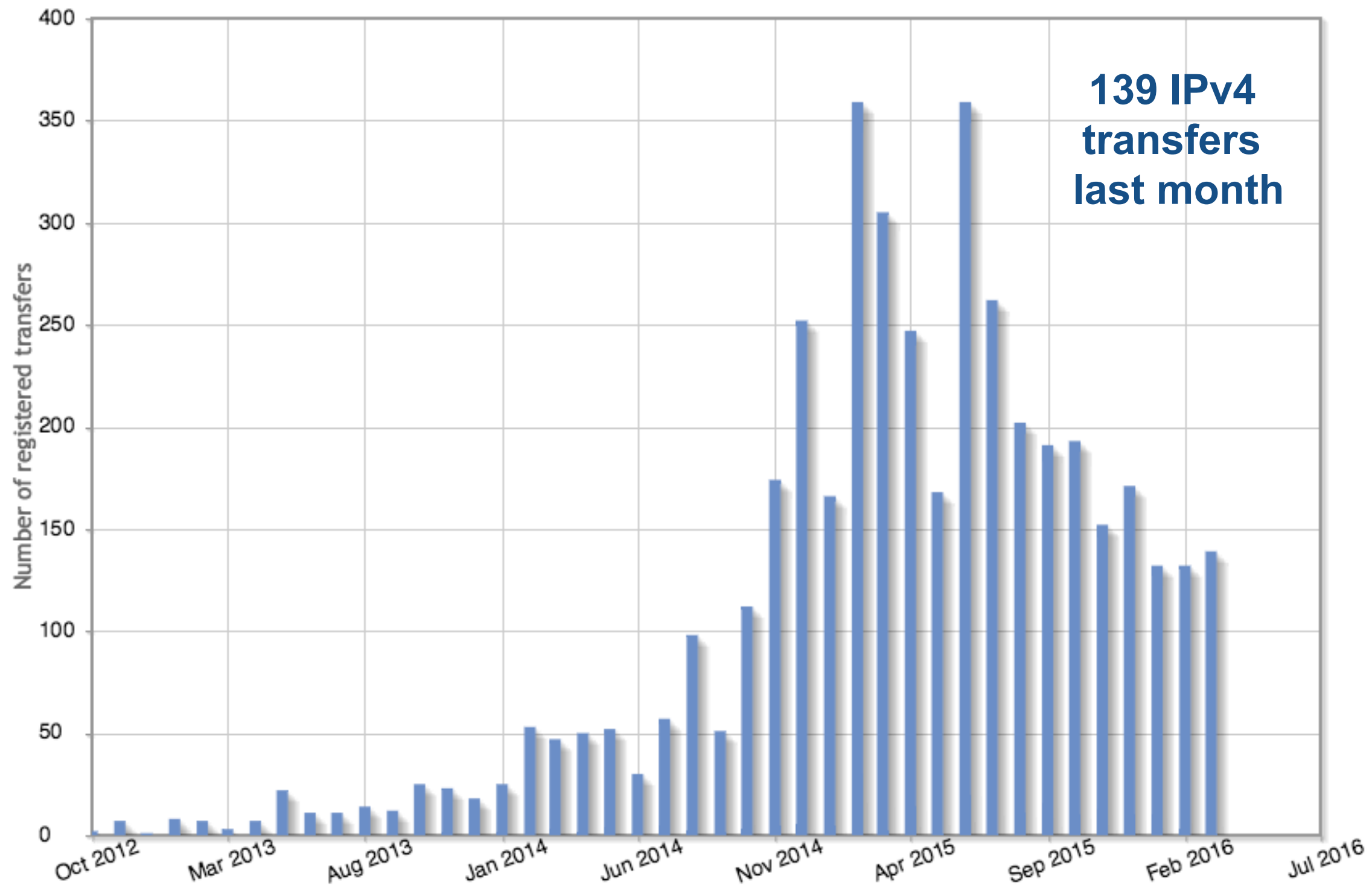
Number of Addresses Transferred

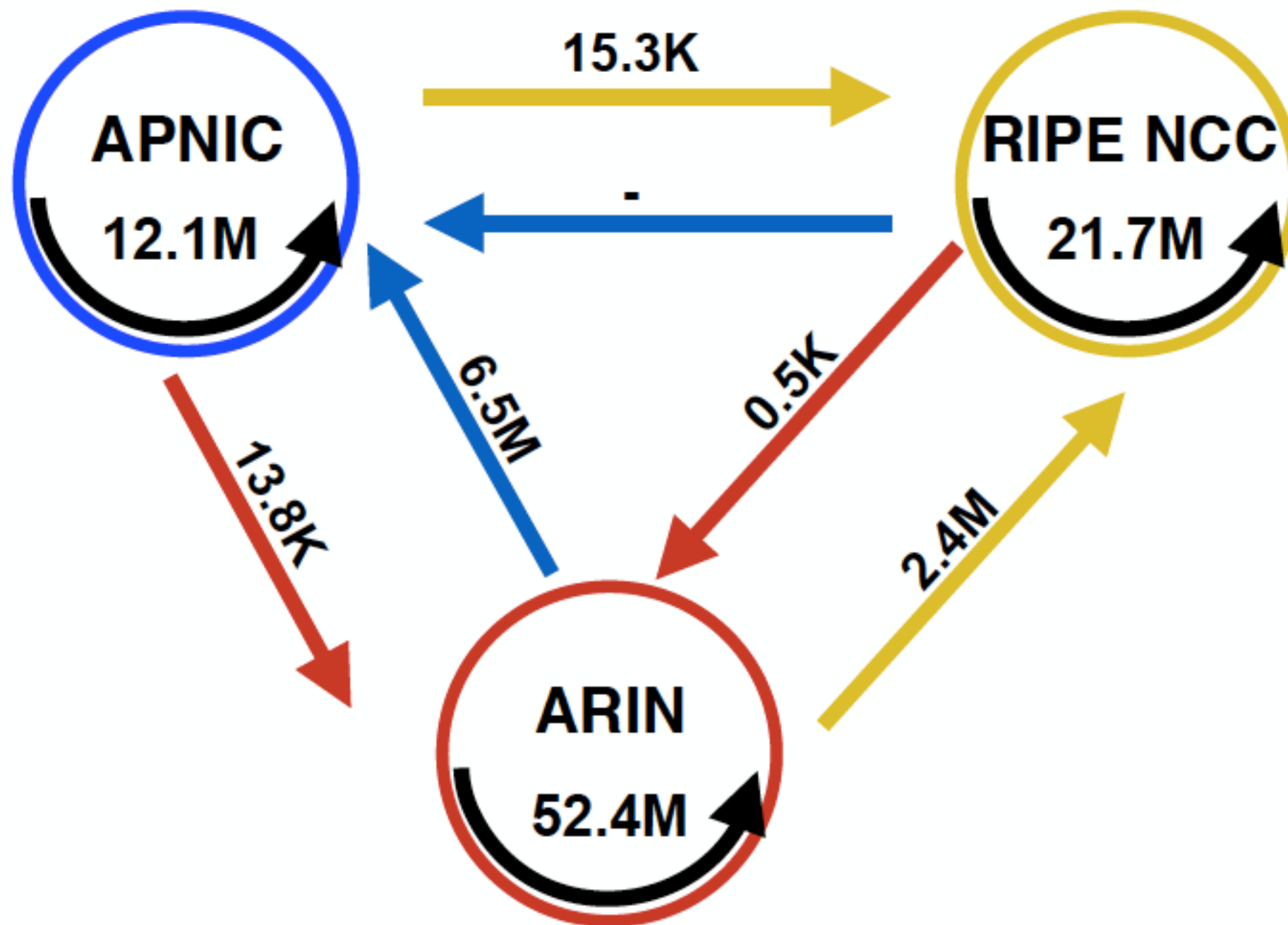**405,760 IPv4 addresses transferred last month**
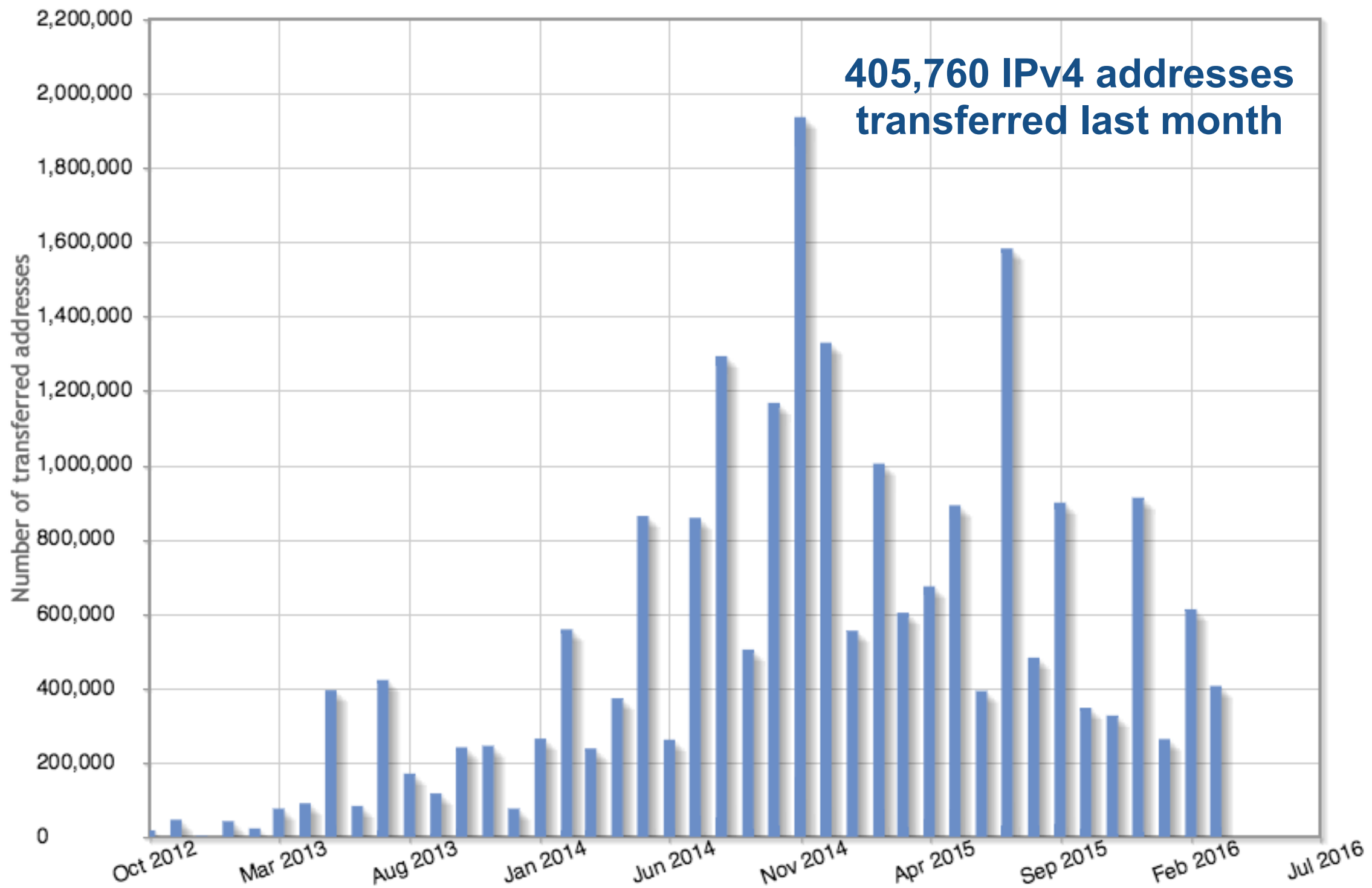
Inter-RIR Transfers

- Policy was implemented in September 2015

- Since then we've seen 46 inter-RIR transfers:

  - All but one were to the RIPE NCC service region

  - 45 from ARIN, five from APNIC

- ASNs can also be transferred with APNIC but there have been none so far

Inter-RIR Transfers

Addressing Multiple LIRs

- Since reaching the last /8, some people started opening multiple LIRs to get additional /22s

- At RIPE 71, our Executive Board put a hold on the ability for a single legal entity to open multiple LIRs

- At the next General Meeting in May, the membership will vote on whether to allow the creation of additional LIR accounts

Address Hijacking

- Increased hijacking activity since IPv4 depletion reached

- 134 cases investigated in 2015

- Mostly targeting legacy and Provider Independent (PI) resources

- Sophisticated methods: re-registering expired domains, forged documents

- Urging our members to update their registry data to protect their resources

Improving Members' Registry Data

- Assisted Registry Check (ARC) started in 2014

- A lightweight check of members' registry data conducted over the phone, with emails to follow-up

- Emphasis on adding value by helping members resolve issues, explaining policies

- A replacement of our previous audit activity

RIPE Atlas

- 9,411 connected probes and 189 RIPE Atlas anchors

- Not far from our goal of 10,000 probes!

- Big thank you to our RIPE Atlas ambassadors for their help in getting probes into your region

- Find out how others are using RIPE Atlas:

  - https://labs.ripe.net/atlas/user-experiences

Policy Proposals Under Discussion

- **2015-04, "RIPE Resource Transfer Policies"**

  - Creates a single transfer policy document for all types of resources

- **2015-05, "Revision of last /8 criteria"**

  - Extra /22s can be requested very 18 months if no address space has been transferred before

- **2016-01, "Include Legacy Internet Resource Holders in the Abuse-C Policy"**

  - Requires legacy holders to set an abuse-contact in the RIPE Database

Policy Proposals Under Discussion

- **2016-02, "Resource Authentication Key (RAK) code for third party authentication"**

  - Allows all Internet number resources, in exacts and more specifics, to be authenticated by an API-key that expires at a certain date

RPKI Update

- 3,580 members have requested a certificate

- Members have created ROAs covering:

  - 2,915 unique ASNs

  - 14,700 IPv4 prefixes, covering more than nine /8s of address space

  - 2,257 IPv6 prefixes; more than 12,100 /32 blocks

- All address space can now be covered

  - Including Provider Independent (PI) and legacy space

RIPE NCC Academy

- Our new online learning platform

- Trainees can complete courses in their own time and be certified for their knowledge

- Complements existing courses and webinars already on offer
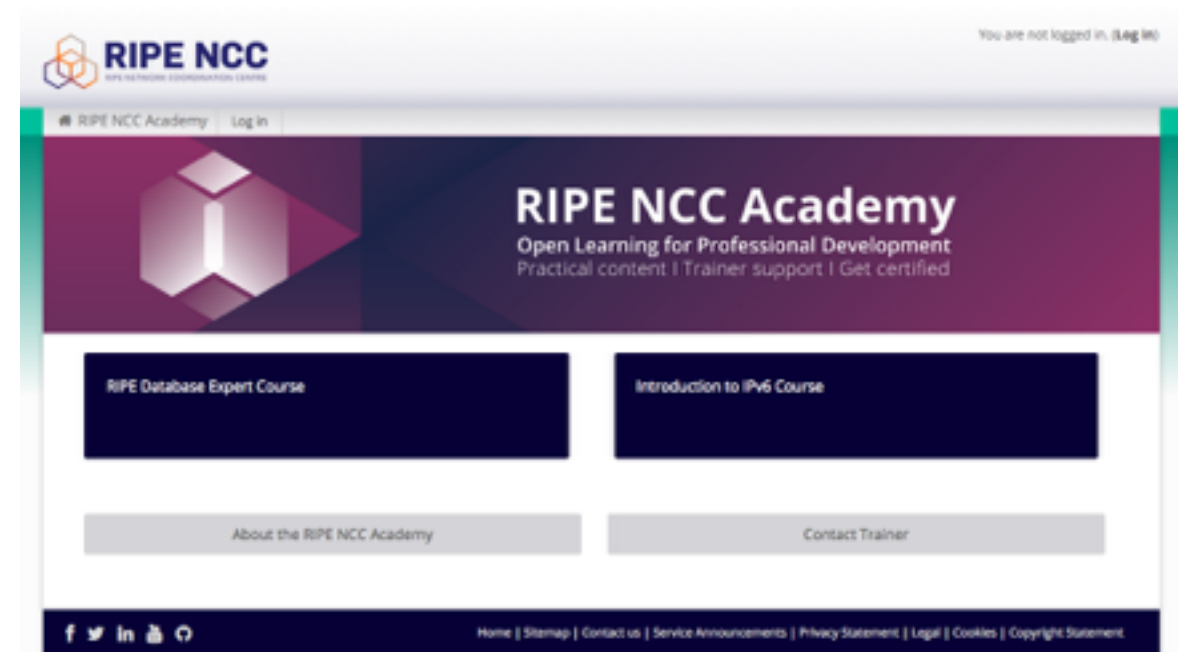
Join us in Copenhagen!

RIPE 72
23 - 27 May 2016
Copenhagen, Denmark

Questions

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