



RIPE NCC

RIPE NETWORK COORDINATION CENTRE

Outlook 2019

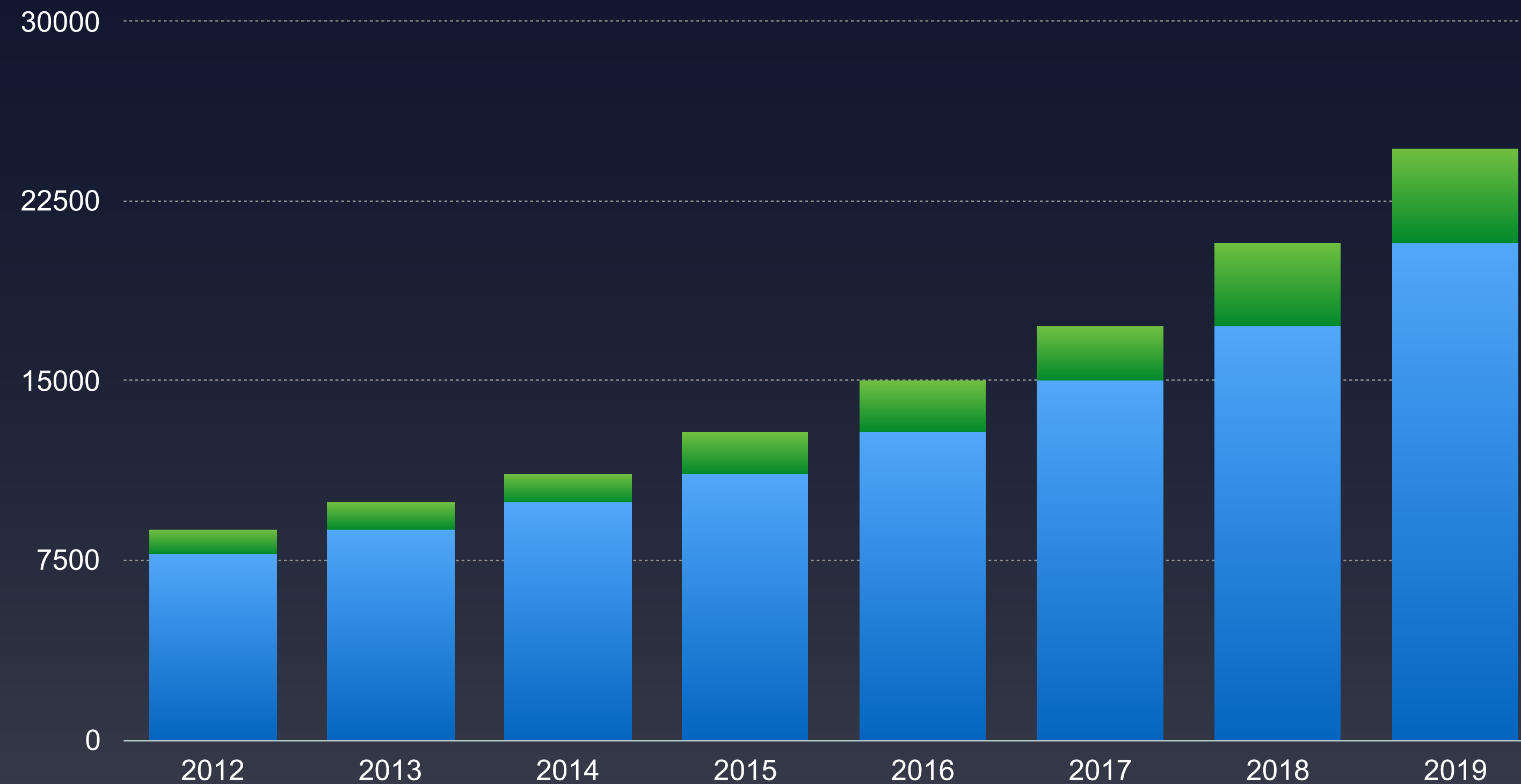
Axel Pawlik
Managing Director
RIPE NCC



A Year of Change

Membership Growth and Evolution

Membership Growth in 2018

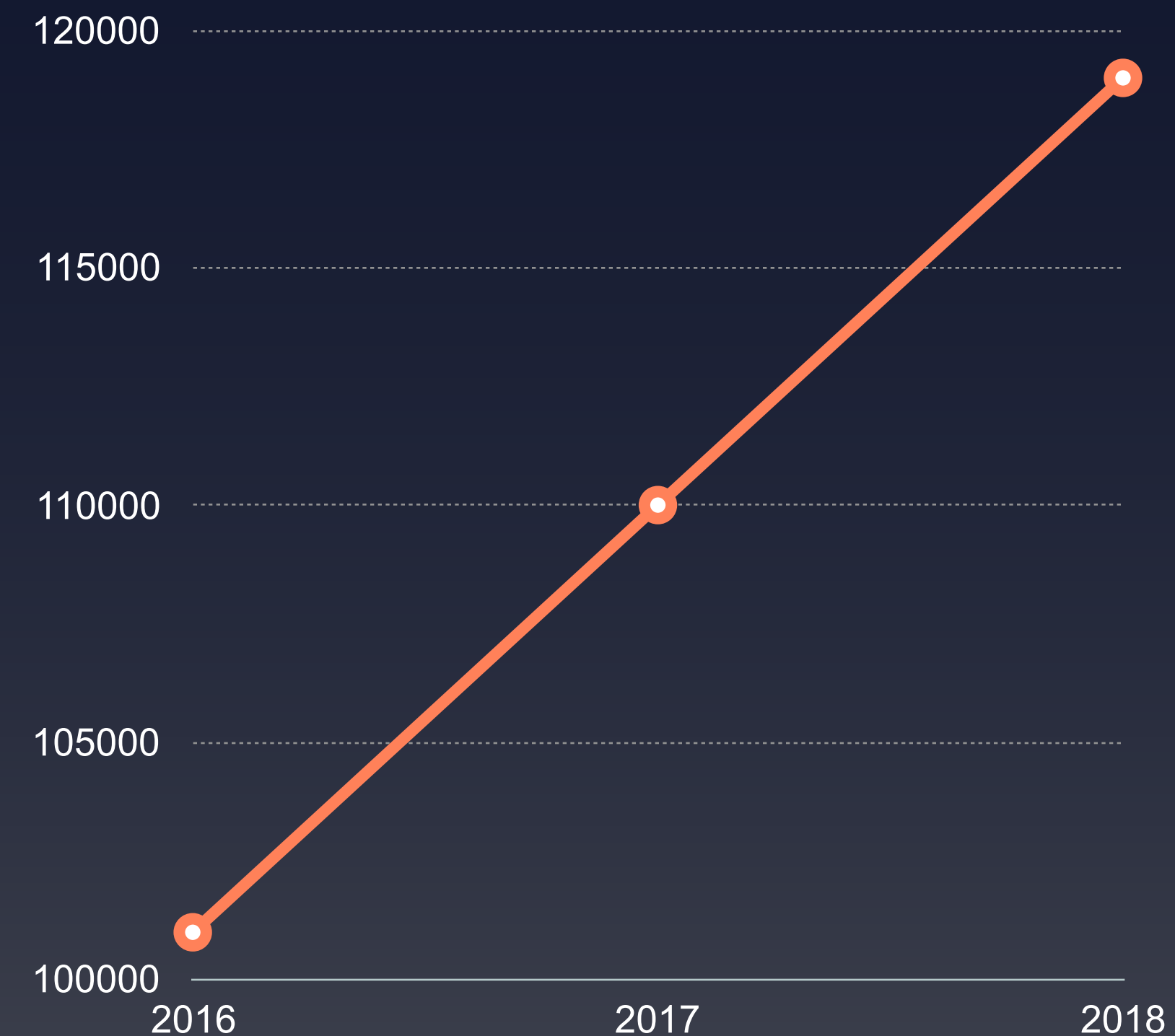


- Unprecedented growth in 2018
- Total base projected to touch 24,000 LIRs by end 2019

Changing Membership Composition



- 12,500+ LIR accounts activated after the last /8 was announced in 2012
- Growth in sectors like finance, banking and enterprise



*Internet Number Resource Records
that the RIPE NCC is responsible for*

Implemented in 2018



- **NWI-5 Out of Region Objects**

- Changes the way out-of-region objects are managed in the RIPE Database
- Implemented following RIPE Database WG consensus
- Solves issues related to prefix hijacking

- **Abuse-c validation**

- Annual validation of abuse-c email addresses in the RIPE Database (currently over 70,000)
- Proposal from the Anti-abuse WG
- Testing will begin from Q4 2018

Strategic Focus in 2018



- Increasing engagement and outreach efforts
- Understanding the needs of our members
- Preparing for both a huge increase in LIR accounts and expected fall-off afterward
- Building efficiency and automation into processes
- Strengthening existing due diligence procedures

Challenges in 2019



- Heavily increased workload due to membership growth
- More mergers and acquisitions - complexity requiring higher levels of evaluation
- Preparing for increased volumes of requests while trying to be as efficient as possible
- Ensuring existing infrastructure and processes are robust enough to handle current and future challenges



Future Readiness

Towards Greater Efficiency and Automation

Strategic Focus Areas for 2019



- Increasing efficiency and agility to handle emerging challenges
- Ensure resilient infrastructure
- Improving registry accuracy
- Increasing accountability and due diligence
- Provide reliable data, be a neutral source of information on Internet resources
- Continue to develop external engagement activities

Greater Efficiency and Accuracy



- Simplify and automate processes
 - Mergers and acquisitions, legal name changes, new LIR applications
- Enable our staff to spend more time on complex requests and due diligence
- Simplify the billing process
- Streamline website content to address user needs more efficiently

Other Activities



- Launch of credentials for RIPE NCC Training
 - Proctored online tests for credible and trustworthy certification
 - Credentials benefit both trainees and potential employers
- RIPE NCC Community Projects Fund will continue to support projects working for the 'Good of the Internet'
 - Seven projects funded in 2017
 - Five projects funded in 2018

K-root Capacity Upgrade



- Strengthening the K-root name server infrastructure
- Increasing capacity to be able to absorb larger DDoS attacks
- Continue to increase coverage in less well-served places
- Work on this will be spread over the coming three years

Internal Information Security



- Strengthening information security capabilities to keep up with the current threat and legal landscape
- Implement a framework to measure the effectiveness of our current information security controls
- Gathering cyberthreat intelligence to prevent potential information security incidents

RIPE Atlas and RIPEstat



- RIPEstat received 55 million queries per day in 2018, compared to 6 million per day in 2016
- Plans to update the user interface for RIPEstat and improve visualisations for RIPE Atlas
- Increase collaborations to extend data sources
- Expand RIPE Atlas network coverage via ‘software probes’ and virtual anchors

NRO/ASO Next Steps



- **Relationship with ICANN:** Should continue through the ASO, but this must be simplified and focus on Number Community matters
- **ASO is different to other Supporting Organisations:** Work with ICANN is focused on coordinating global policies - ASO should decline work items that are out of scope
- **'NRO/ASO' is confusing:** See if community participation can be consolidated under either the NRO or ASO
- **Support ICANN:** We find value in ICANN's role and will continue to evolve our relationship

Engagement and Outreach



- RIPE Meetings
- Regional Meetings and Member Lunches
- Supporting NOGs, national IGFs, technical community events
- Face-to-face training courses
- Community building through RIPE Labs
- Academic cooperation and hackathons
- Government roundtable meetings

Why We Go Where We Go



- Try to connect with the entire community
- Understand the challenges faced by members across our service region
- Support the development of local technical communities
- Understand public sector concerns and provide them with relevant information
- Represent community and members in Internet governance and policy arenas
- Spread know-how; share best practices, tools

Here's Where We've Been in 2018



Includes RIPE Meetings, Regional Meetings, Member Lunches, Training Courses, Roundtables, Hackathons and other RIPE NCC events

RIPE NCC Survey 2019



- Previous survey took place in 2016 (4,400 participants)
- A crucial exercise
- This will be our last survey before IPv4 exhaustion
- Consultations to identify important issues
- Survey launches at RIPE 78 in Reykjavik
- Please do participate!

Activity Plan 2019 Highlights



- Catering for 4,000 new LIR accounts is the biggest challenge ahead
- Gaining efficiencies and laying the groundwork for the future
- Efforts to ensure registry accuracy and service delivery
- Adding stability and robustness with K-root and Information Security
- Launching new activities - RIPE NCC Academy credentialing and Abuse-c validation

Budget 2019 Highlights



- Total 24,000 LIR accounts by the end of 2019
- Forecast income increase of 23% thanks to membership growth
- A budget increase of 15%
- Anticipated surplus of EUR 9.9 million
- Cost per LIR is expected to come down to EUR 1,345 (down from EUR 1,435 in the 2018 Budget)

RIPE NCC General Meeting Oct 2018



- Draft RIPE NCC Activity Plan and Budget 2019
- Redistribution of RIPE NCC Surplus 2018
- Amendments to RIPE NCC Articles of Association
- Participate in the GM!



Questions



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