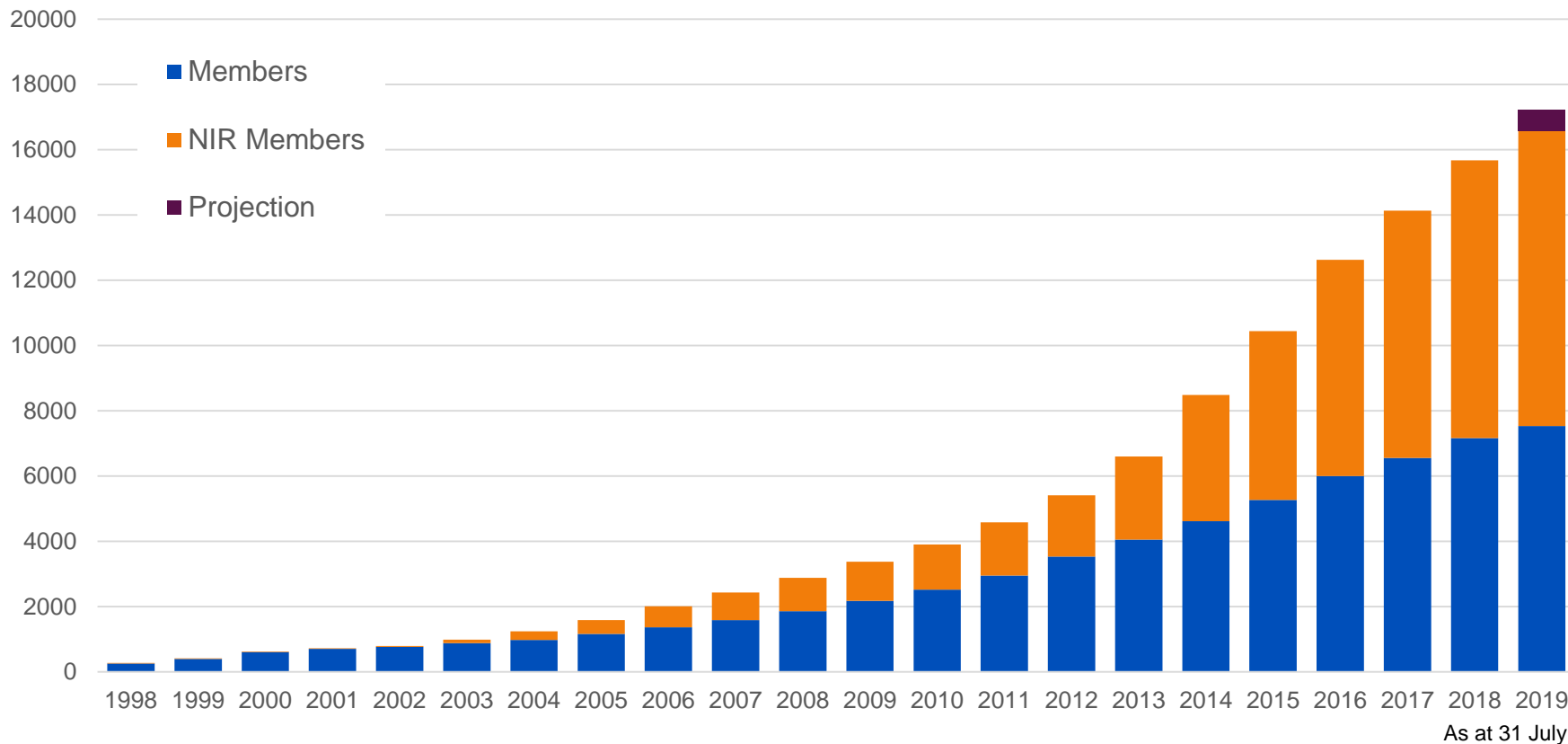# APNIC Update

AP* Retreat
Chiang Mai
8 September 2019
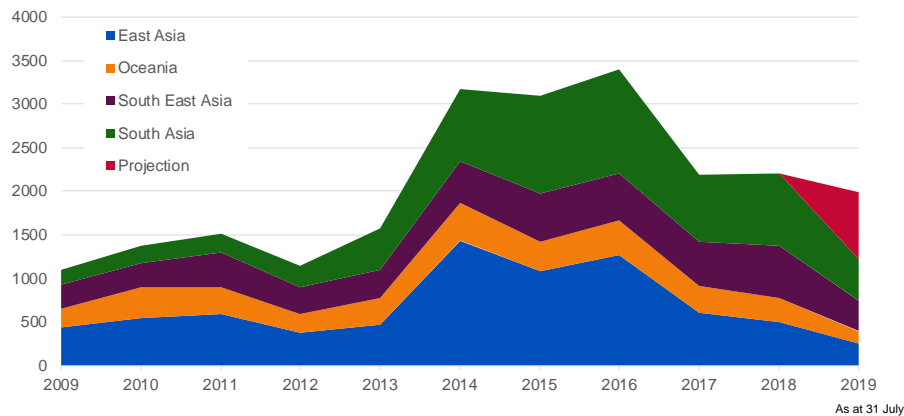
*"A global, open, stable and secure Internet that serves the entire Asia Pacific community"*

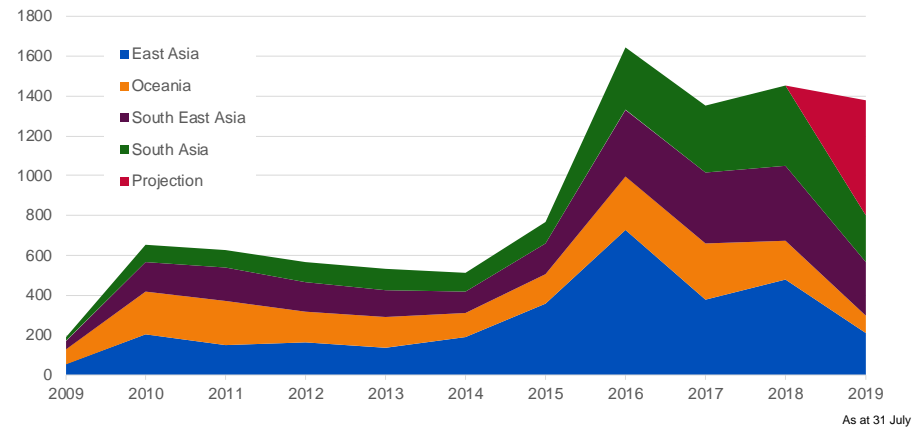# Membership



Legend:
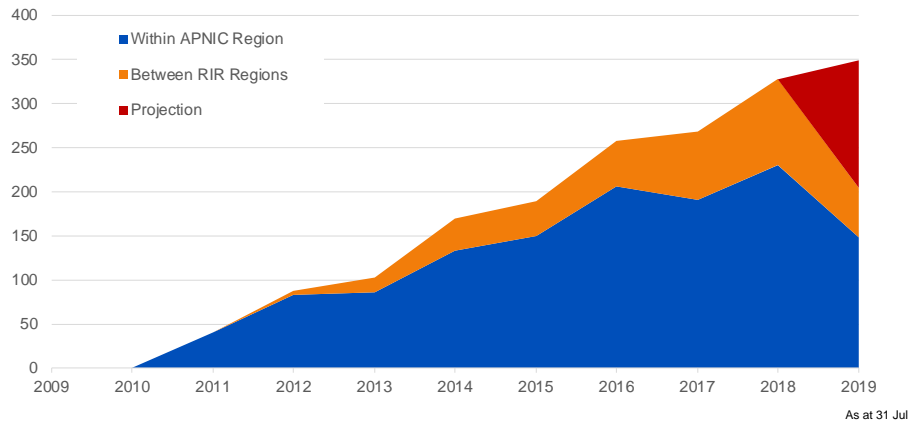- Members (blue)
- NIR Members (orange)
- Projection (dark purple)

As at 31 July

APNIC

# IPv4 delegations

Legend:
- East Asia
- Oceania
- South East Asia
- South Asia
- Projection

As at 31 July

APNIC

# IPv6 delegations

Legend:
- East Asia
- Oceania
- South East Asia
- South Asia
- Projection

As at 31 July

APNIC

# IPv4 transfers

Legend:
- Within APNIC Region
- Between RIR Regions
- Projection

As at 31 Jul

APNIC

# ASN delegations

Legend:
- East Asia
- Oceania
- South East Asia
- South Asia
- Projection
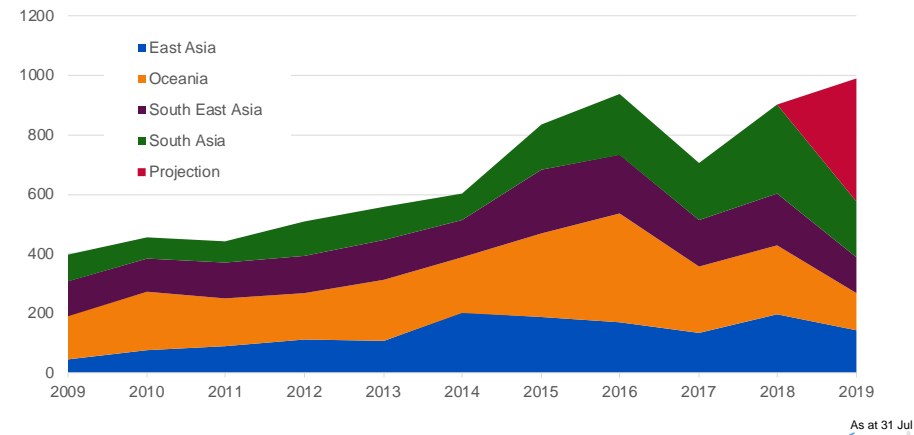
As at 31 Jul

APNIC

# Registry Products

- RDAP – Registration Data Access Protocol
  - IETF work on RIR profile and Mirroring mechanism
  - Work with NIRs and other RIRs on uniform service

- RPKI – Resource Public Key Infrastructure
  - IETF work on new applications (RTA)
  - Training and technical assistance
  - Promotion of ROA/ROV
  - Major topic for APNIC 48

# Reclaiming unused IPv4

- As requested in APNIC Survey 2018
  - Total of nearly 6x/8 allocated but unrouted in APNIC region

- Contacting affected account holders to encourage transfer/return

- New MyAPNIC listing service of available IPv4
  - Encourage transfer if not return

# Training


Trainees at PacNOG 2018


IPv6 workshop, Beijing

| | 2019 to date |
|---|---:|
| Face-to-face training | 39 |
| Economies | 20 |
| Trainees | 1,065 |
| Trainee days | 2,848 |
| Community Trainers | 19 |
| APNIC Academy Users | 2,263 |
| Economies | 35 |
| Virtual Labs | 848 |
| Course completions | 409 |
| Trainee hours | 1,907 |
| YouTube Training views | 25,263 |

# APNIC Academy



Free, 24/7 Available

17+ online courses

- New webinar platform
  - 5 webinars, 451 participants
- Access to "eduroam"
  - APNIC Members only

- Launching at APNIC 48:
  - IPv6 Fundamentals (5 modules)
  - Support for 8 languages

academy.apnic.net

# Information Products
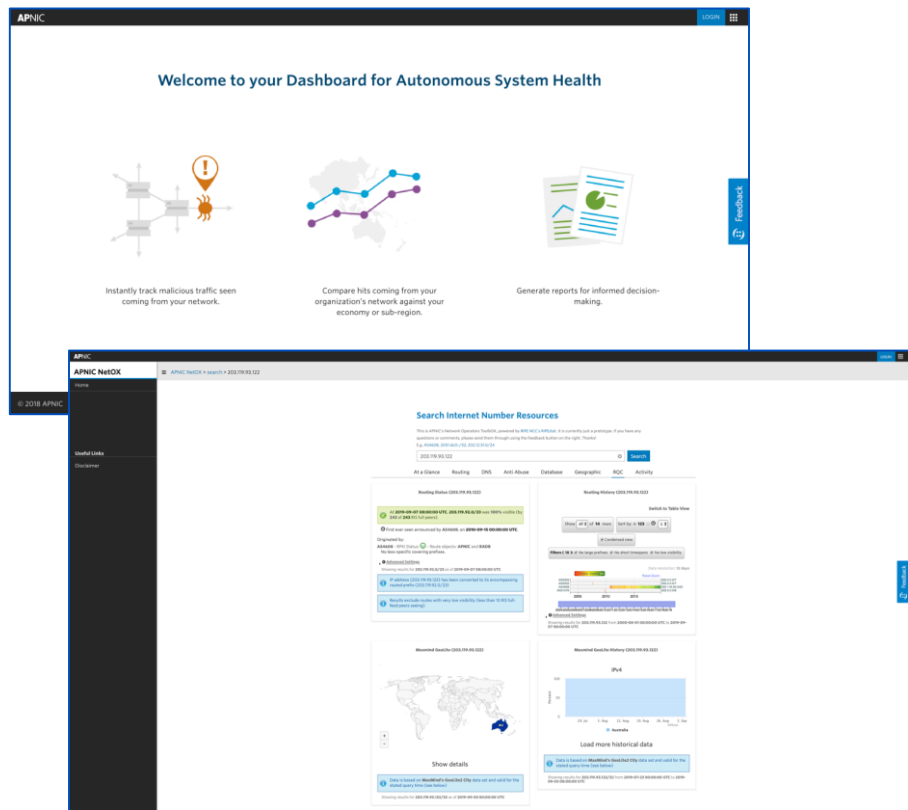


- Internet Directory update
    - Economy comparisons
    - IPv6 Capability
    - VizAS
- DASH – Dashboard for AS Health
    - Authentication via APNIC SSO
    - Validation and testing
    - Soft launch at APNIC 48 and interviews
- NetOX – a la RIPEstat
    - Including RQC functions
    - User Interviews at APNIC 48

stats.apnic.net

# APNIC Conferences



APRICOT 2019
APNIC 47

APNIC 48

APRICOT 2019

- APNIC 47 / APRICOT 2019
  - 714 attendees / 57 economies

- APNIC 48
  - ~600 registrations
  - 52 Fellows / 20 economies
    - 27 Professional, 21 Youth, 4 Returning
    - 50:50 male:female
  - NextGen Careers BoF
  - ANP Camp Reunion!

conference.apnic.net

**APNIC**

# Technical Community



IDNOG 6

- **NOGs**: Participated in 16 regional NOGs in 2019 (to date)

- **Root servers**: F-root in FJ relocated to IXP; K-root at BTIX

- **R&E**: trainings at APAN 47, 48 with GEANT (TRANSIT-1);

  - Jamie Gillespie is Co-Chair for APAN Security Working Group

  - Continued work with R&E community on training content

  - Supported by funding from Asi@Connect

# IPv6



IPv6 Deployment workshop, Kolkata
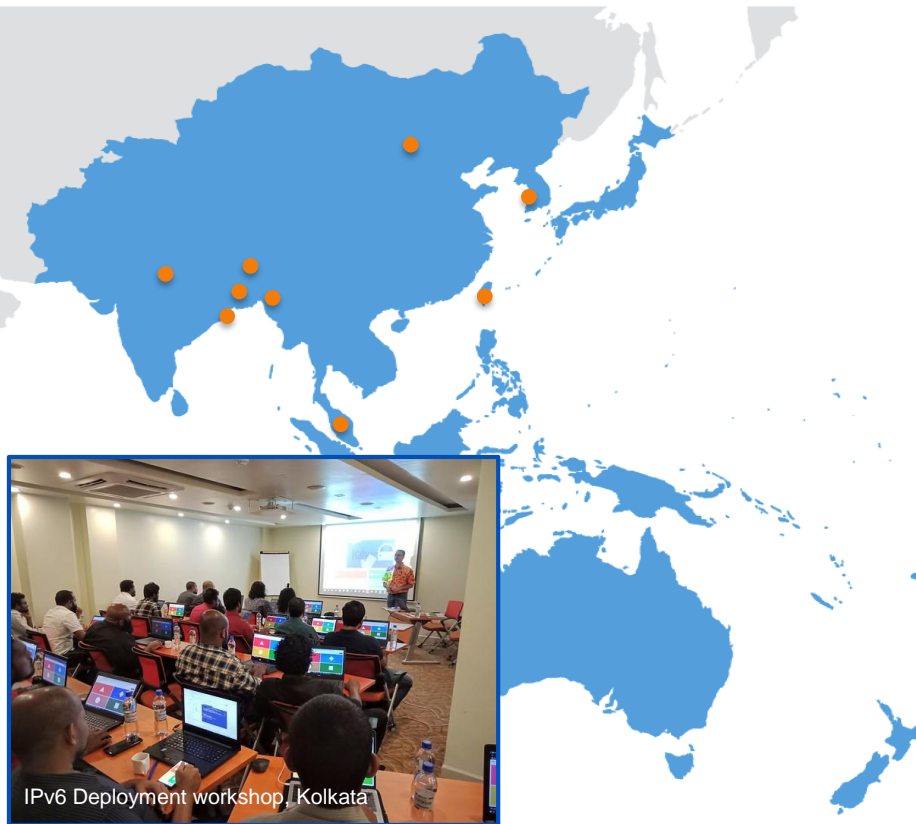
- IPv6 Training
  - 9 face-to-face, 219 trainees
  - New Academy course
- 40 blog posts (to date)
  - IPv6 Week promotion
  - 3 new success stories (29 total)
- IPv6 deployment sessions at APNIC conferences
- APNIC Members holding IPv6 resources 63.05%;
- Regional IPv6 capability now 28.61% (APNIC Labs)

# Security


Adli Wahid


Jamie Gillespie

apnic.net/security

- 15 security engagements including conference presentations and training workshops

  - 8 face-to-face security training sessions

  - CERTs: LaoCERT, CamCERT; APCERT at APRICOT 2019; APISC Annual CERT Workshop; CERT Tonga

  - LEA workshops: Regional Prosecutors Training, ISCR 2019, Cyber Pasifika workshop, Hong Kong Police, Interpol

- FIRST security track at APRICOT 2019 and APNIC 48

- APNIC Community Honeynet project expanded with partners in Bhutan, Bangladesh, Malaysia, Samoa, Tonga and Indonesia

- 65 security-related blog posts (to date)

# Internet Directory
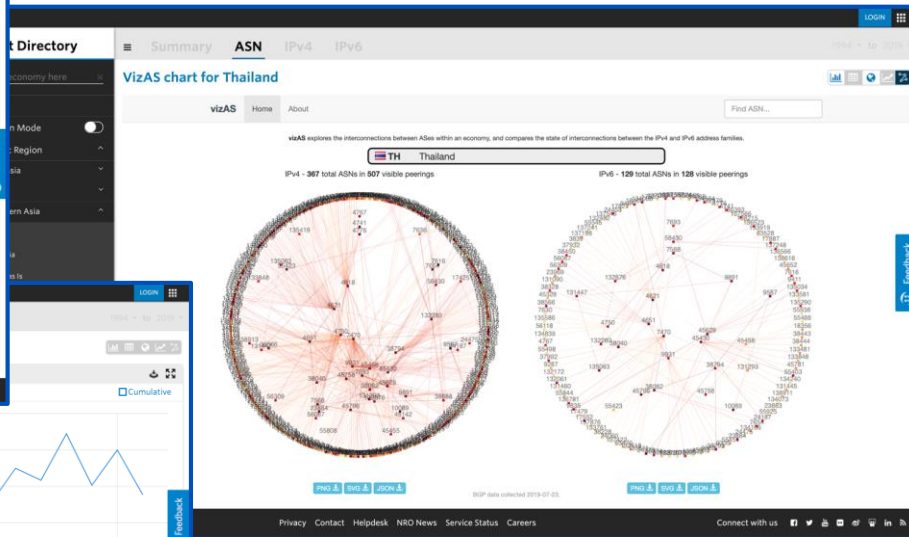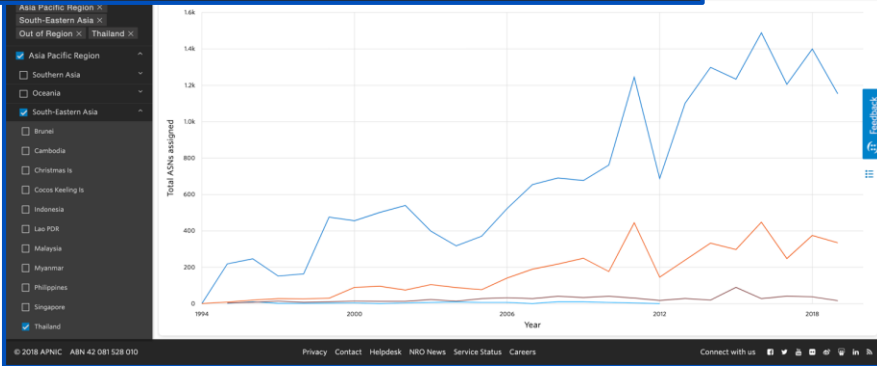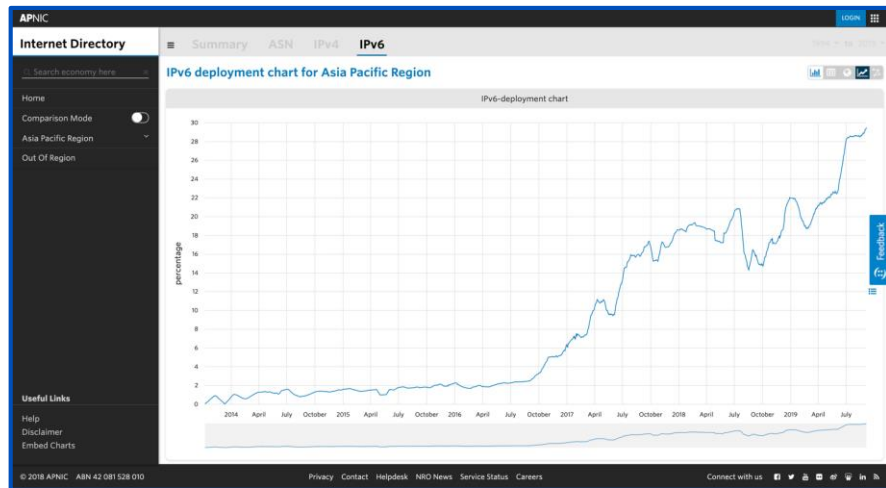


stats.apnic.net

# Behind the scenes

- Full recertification (three-yearly) audit of ISO9001 quality management system in August

- New internal systems
  - 'Expensify' for expense management
  - New event registration implemented in Salesforce
  - Elmo for Human Resource management

- Internal integration and SSO with 2FA for SharePoint, NetSuite, Nexonia, Halogen, Salesforce, Zoom, and many others

APNIC

# Stay in Touch!
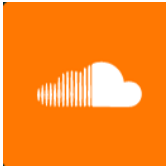
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