IDNIC-APJII
NIR Operations Update

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2020

IDNIC Activities

Manage & Distribute IP from APNIC

Serving IDNIC Member

Supporting National Internet Development

Training & Workshops
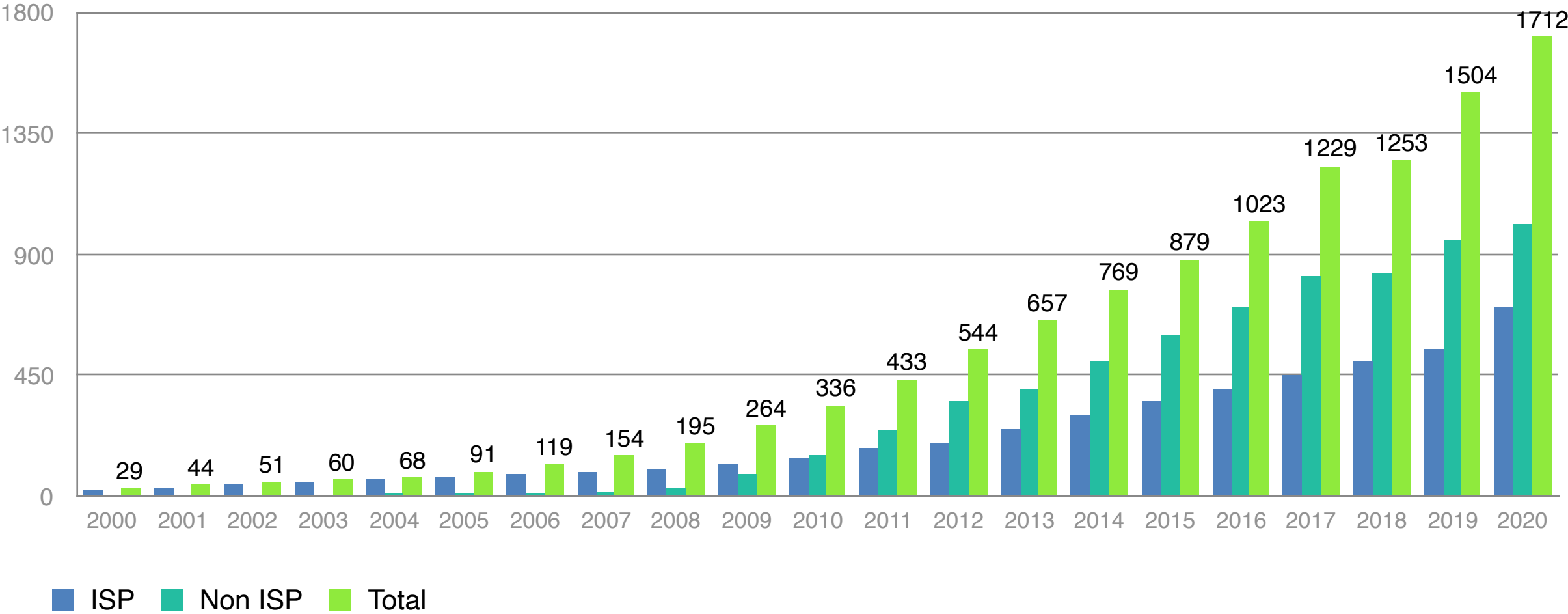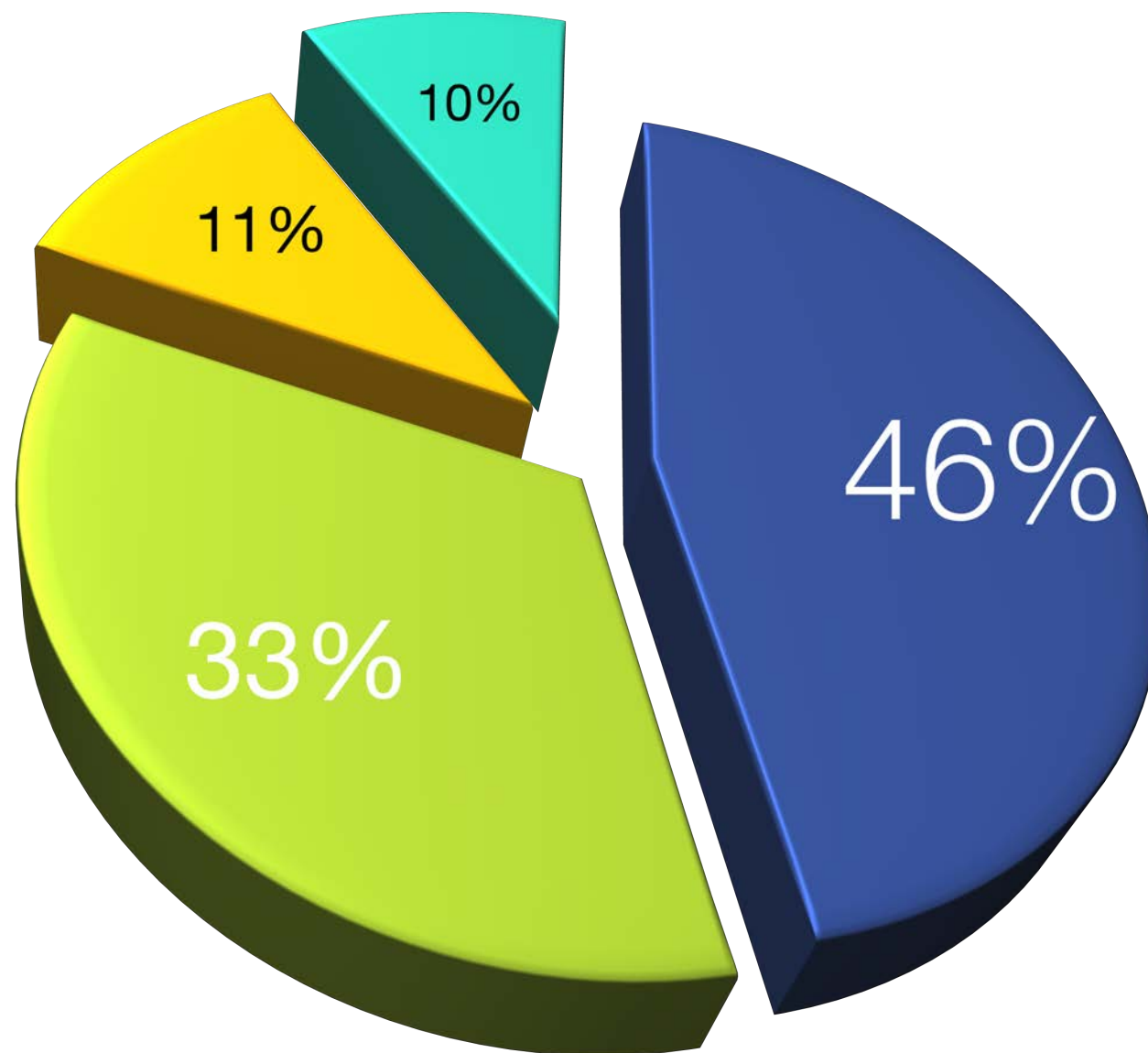
Cooperating with APNIC

IP & ASN Distribution

IDNIC
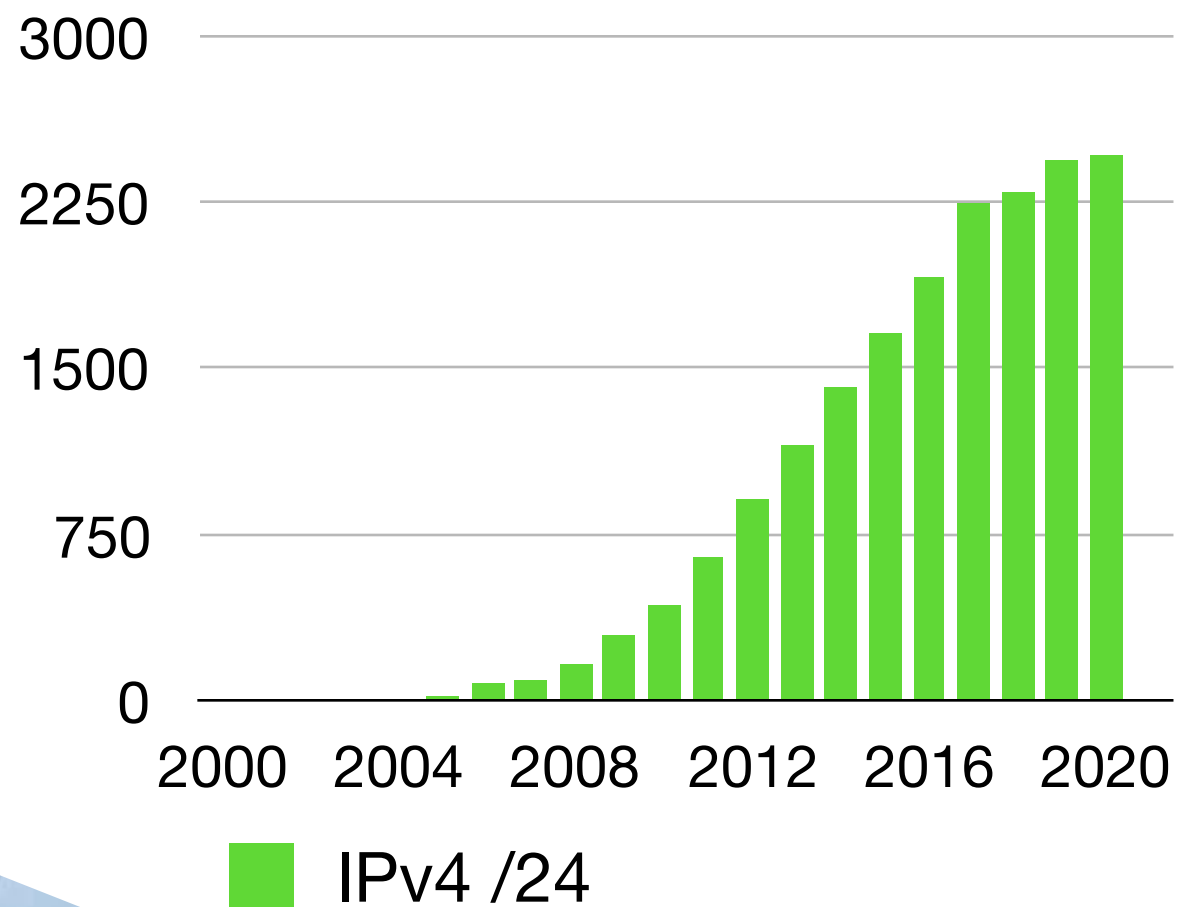Activities

IDNIC Member Statistics
(Feb 2020)

Legend: ISP, Non ISP, Total

Member Compositions
(Feb 2020)

**Member
Compositions**
(Feb 2020)

- Corporate & Association
- ISP & NAP
- Government
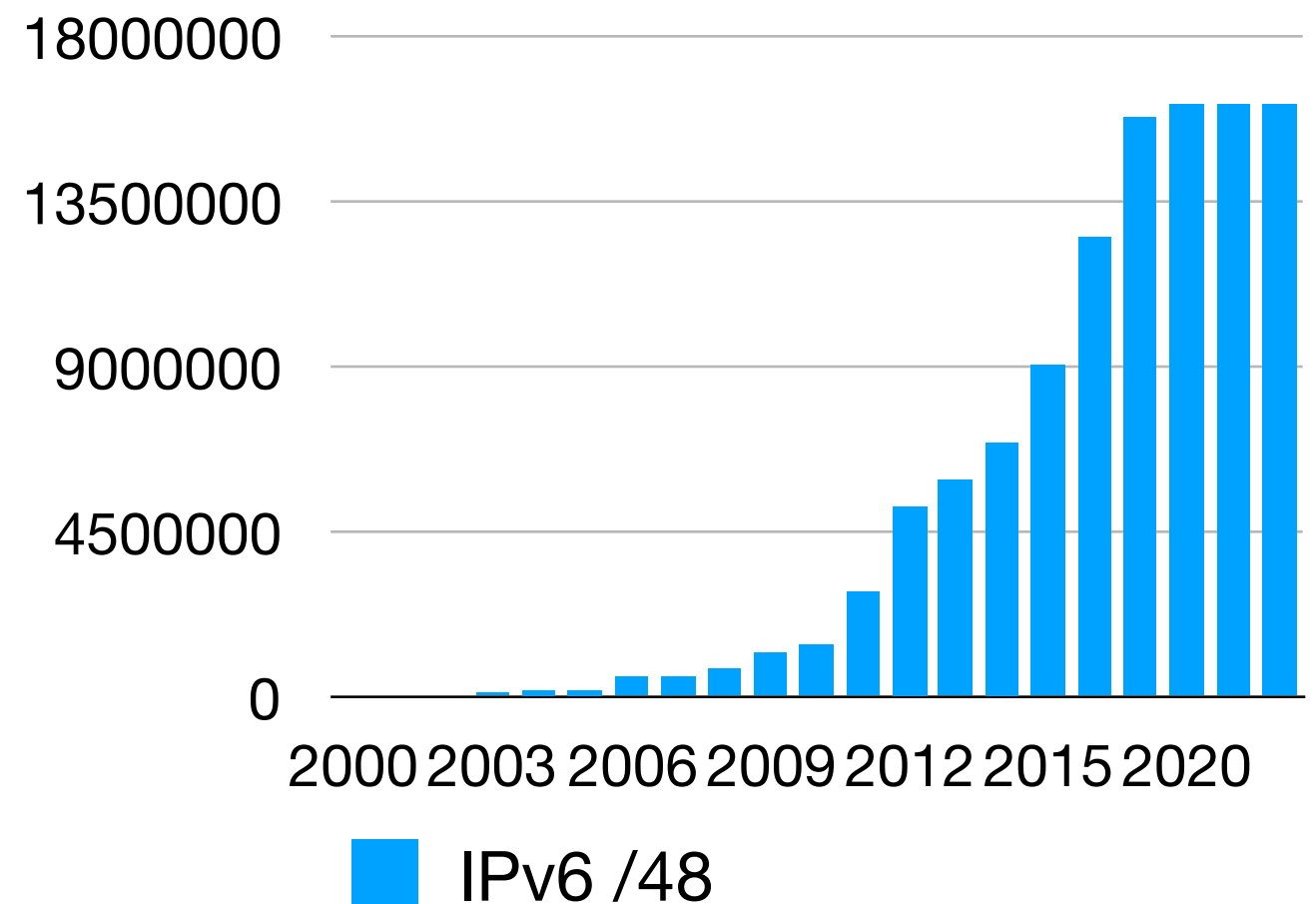- Education

46%

33%

11%

10%

IPv4 & IPv6 Allocation
(Feb 2020)

Total Allocation: **2463 * /24 IPv4**

Total Allocation: **16139131 * /48 IPv6**

Serving IDNIC Members

IDNIC
Activities
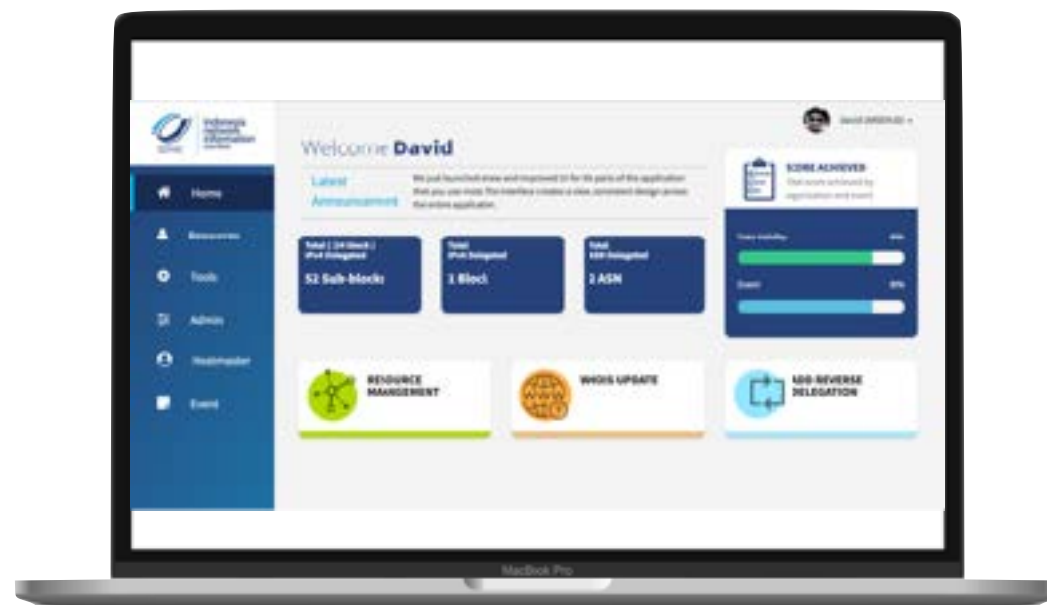
1 MyIDNIC Portal

myIDNIC

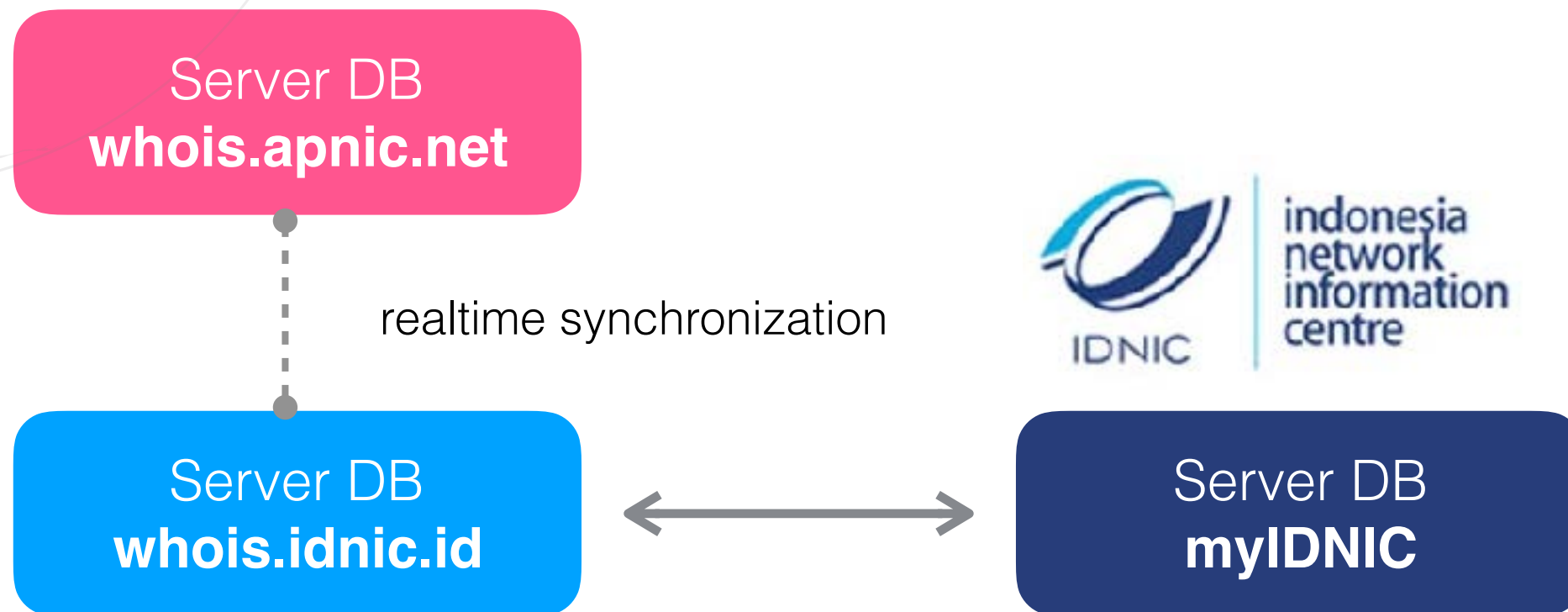A web portal we dreamed for more than 10 years ago

Online portal for IDNIC Member for:

Manage IPv4, IPv6, and ASN resources

Whois Update & Tools

ROA & RPKI Requests

2 Member Data Update

Email Link Tracking,
myIDNIC Login Tracking,
Member Data Update

Menu

rudi – admin ▾

Verify Status

All ▾

Jenis Izin Member

All ▾

Show 10 ▾ entries

Search:

ID ↑↓	Nama Perusahaan ↑↓	Domain ↑↓	Jenis Perijinan ↑↓	Type ↑↓	Spesifik Tipe ↑↓	Provinsi ↑↓	Kota ↑↓	Kecamatan ↑↓	Kelurahan / Desa ↑↓	Kontak Teknik
☑ 384	PT. RAHAJASA MEDIA INTERNET	RAD.NET.ID	ISP	Keanggotaan Penyelenggara		DKI JAKARTA	KOTA JAKARTA SELATAN	PASAR MINGGU	PEJATEN BARAT	TATANG SYSADMIN 81298914667 217996383 thatank@rad.net.id
☑ 385	PT. CYBERINDO ADITAMA	CBN.NET.ID	ISP	Keanggotaan Penyelenggara		DKI JAKARTA	KOTA JAKARTA SELATAN	SETIA BUDI	KUNINGAN TIMUR	HAIRUL RACHMAN NOC 2129964900 215742481 hairul.rachman@cbn.co.id
☑ 386	PT. BHAKTI WASANTARA NET	WASANTARA.NET.ID	–	Corporate		DKI JAKARTA	KOTA JAKARTA PUSAT	SAWAH BESAR	PASAR BARU	JONATHAN S. HASUGIAN GM OPERATION 811223072 213517492 jonathan@wasantara.net.id

Validate & Update our member data one by one. Make sure it still has updated data (Email, Corporate Contact, and Phone Number)

Active Member

Member Statisfication

Member Engagement

Member Segmentation

3 IDNIC AMM #2

Annual Member Meeting
& Workshop

Highlight

1 IDNIC Workshop on RPKI, IPv6, and 802.1X

2 IDNIC NIR Operation Report to Member

3 Keynote speakers

4 IPv4 & IPv6 Network during conference

327 Total Attendees

IDNIC AMM Speakers

Bapak Ismail Fahmi
Founder PT Media Kernel Indonesia
How Social Media Can Make Us
Smarter

Bapak Rudi Lumanto
Ketua ID-SIRTII
Indonesia 2019 Cyber Threat
Landscape

Bapak Johar Alam
Open IXP
IP Gone Wild

Bapak Wita Laksono
Senior Internet Resource Analyst APNIC
APNIC Policies, Services and Project
Update

Bapak Bima Laga
AVP Public Policy and Goverment of
Bukalapak

-

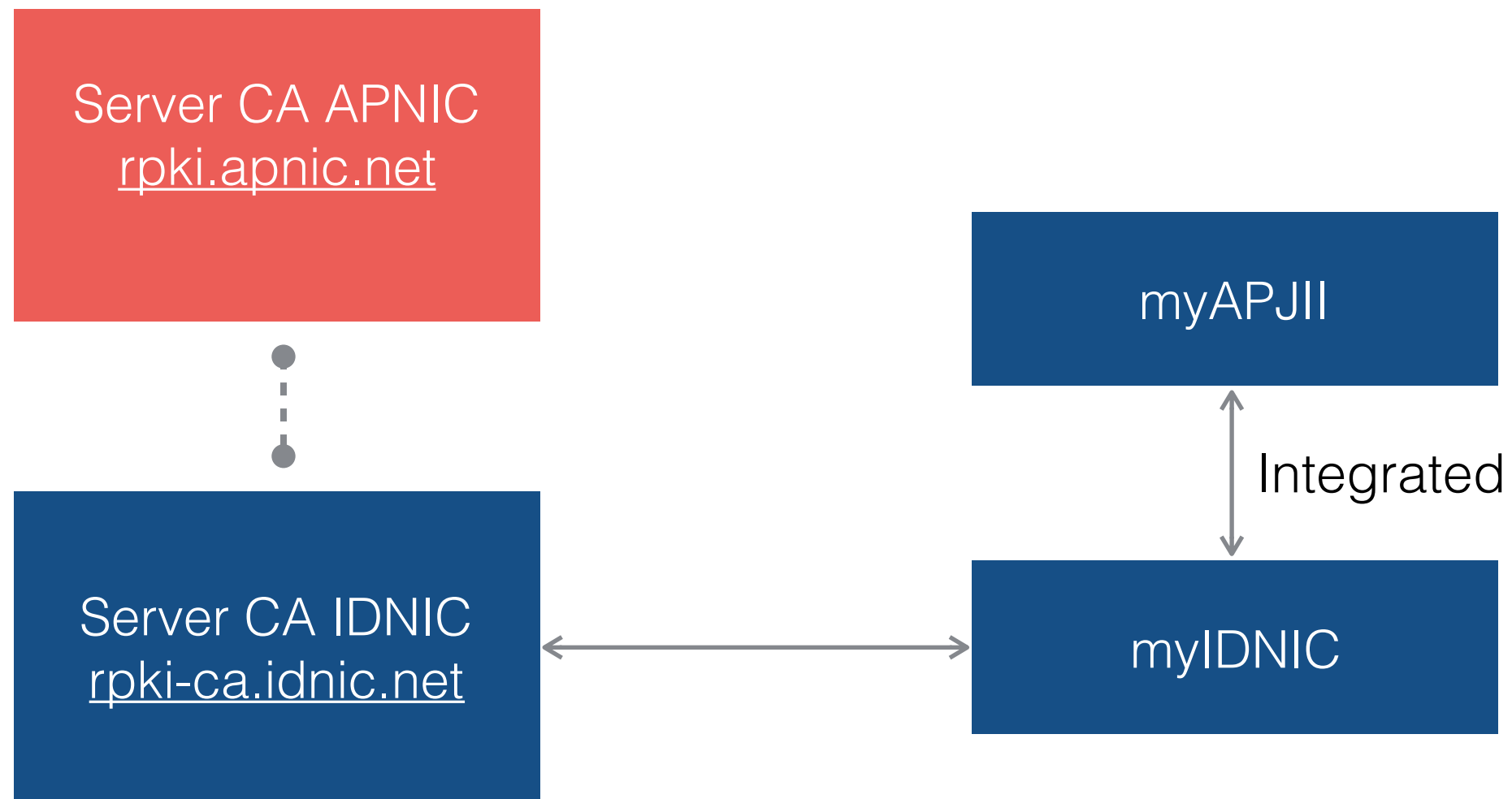# Supporting National Internet Development

IDNIC
Activities

1

IDNIC RPKI CA Service

https://rpki-ca.idnic.net

IDNIC RPKI CA System
11 November 2019

Server CA APNIC
rpki.apnic.net

myAPJII

Integrated

Server CA IDNIC
rpki-ca.idnic.net

myIDNIC

RPKI Roadmap Indonesia

Done

Done

On Progress

Phase 1
Deployed production ready
CA & RPKI System

Phase 3
IDNIC ROA dashboard & monitoring

Phase 2
Allow IDNIC Member to create ROA from
myIDNIC

IDNIC RPKI CA System
Migrating RPKI.net to Krill RPKI CA

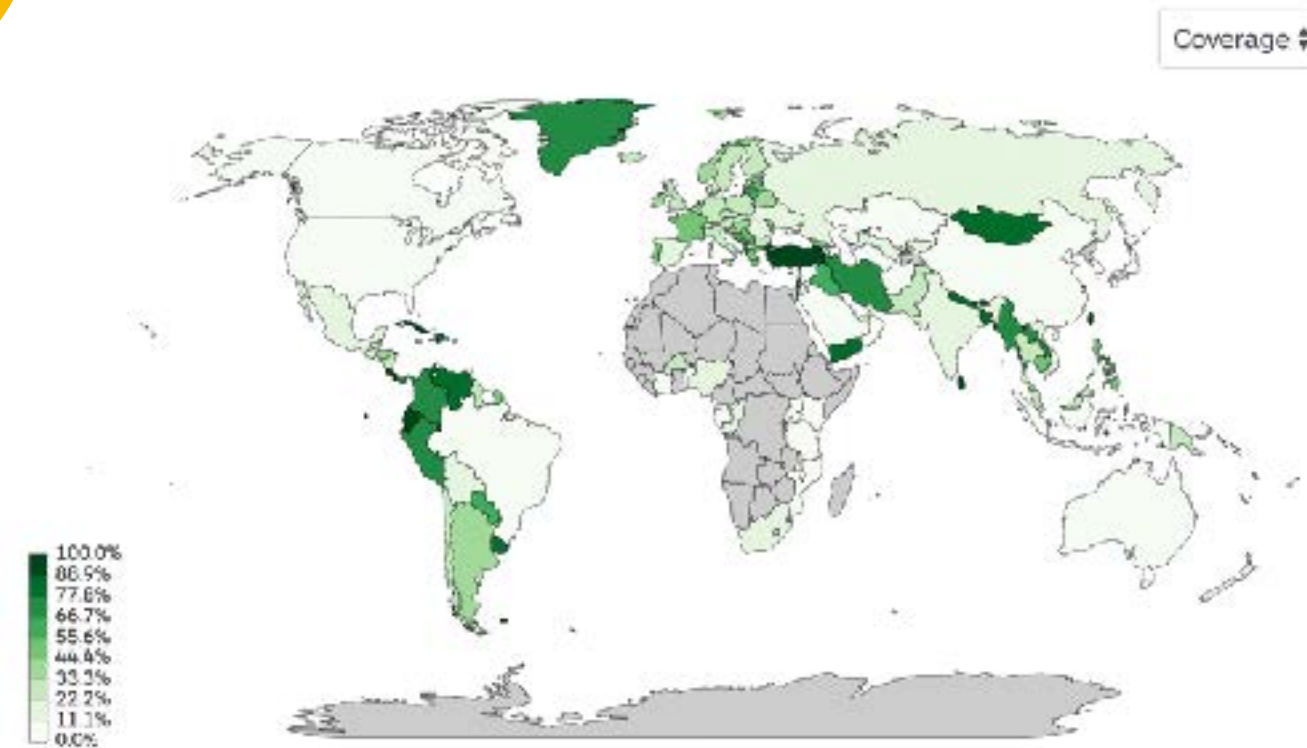**1** It has documented Rest API

2 It has active development phase (check it on github) also offering commercial support.

3 Able to run RFC8181& RFC6492
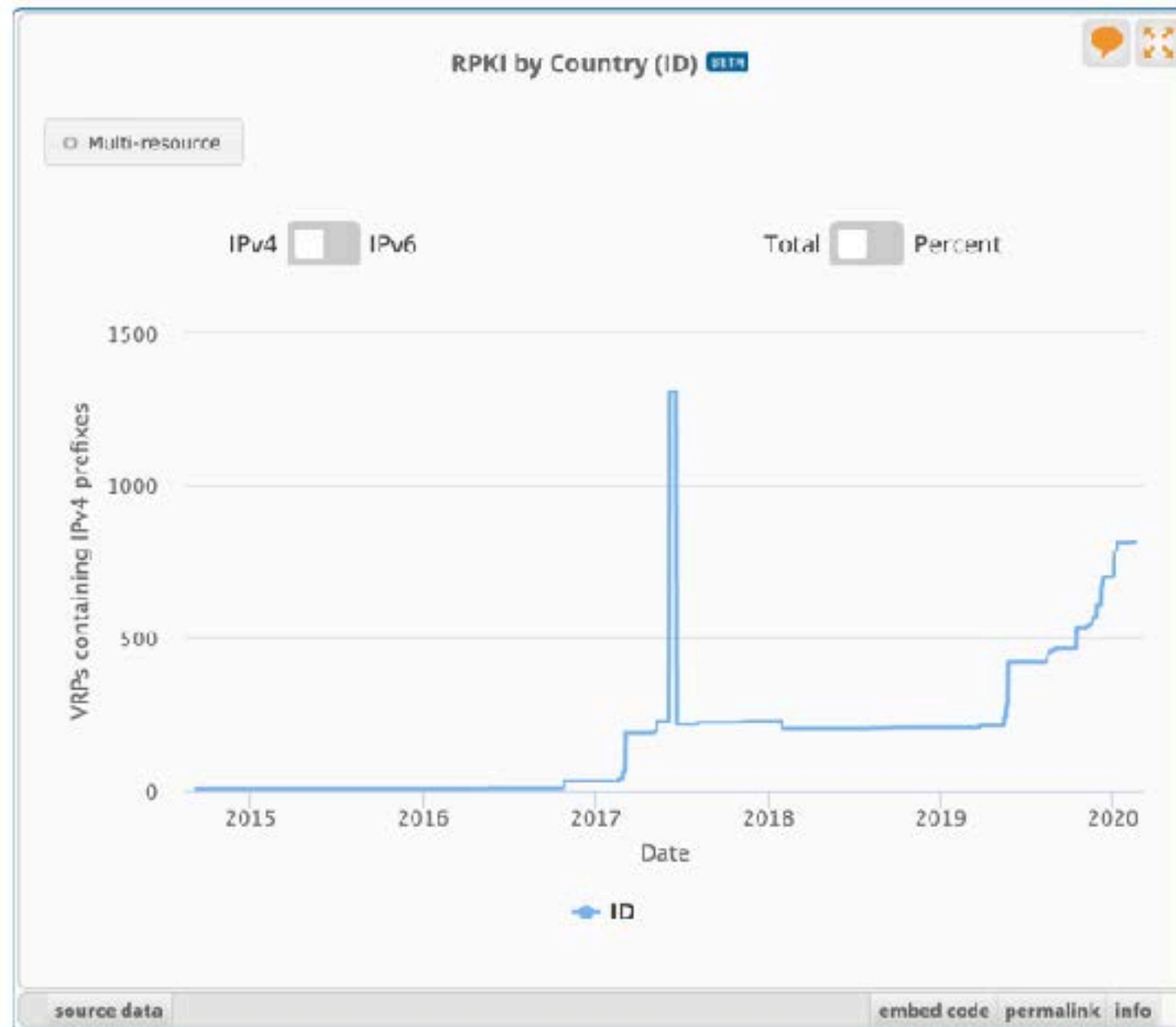
State of RPKI in Indonesia

BGP Advertisement Covered by RPKI

1%

2019

increased

9,3%

2020

Coverage

100.0%
88.9%
77.8%
66.7%
55.6%
44.4%
33.3%
22.2%
11.1%
0.0%

State of RPKI in Indonesia

ROA Count
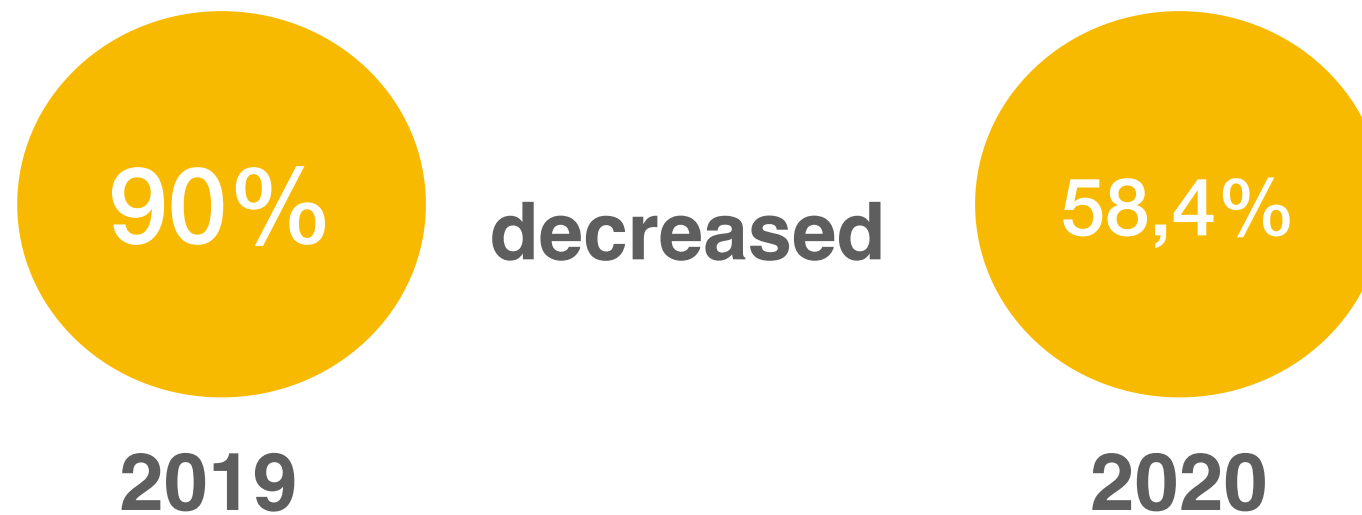
State of RPKI in Indonesia

The problem

1   Device Compability

2   Large number of members > 1700

State of RPKI in Indonesia

Pilot Project @UNY-IX

1 18 Total Peers (Universities, Goverment, and ISP)

2 4Gb Traffic (2018)
7Gb Traffic (2020)

3 Unsupported Device. So deployed a route server

2

IPv6 Development

1 Founded ID-IPv6TF

The Indonesia IPv6 Task Force (ID-IPv6TF) Team was formed by the Directorate General of Post and Telecommunications (now DG PPI) in 2008 by involving APJII, operator representatives and stakeholders in the internet industry

2 IPv6 Implementation On National IXP
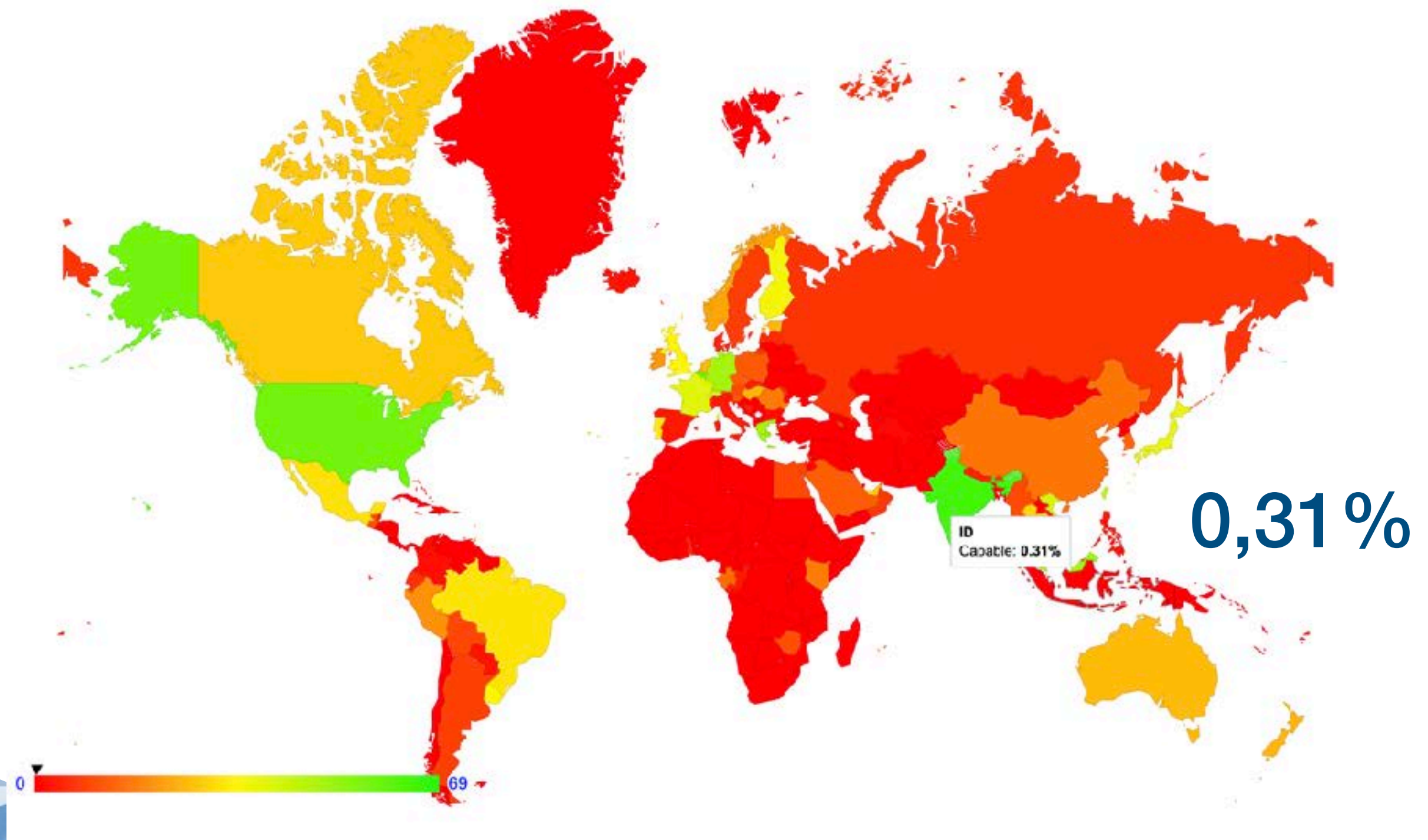
IIX

3778
prefix IPv6

OpenIXP

4303
prefix IPv6

3 IPv6 Allocation To Member (Free of charge)

Indonesia IPv6 Percentage

0,31 %

ID
Capable: 0.31%

0   69

https://stats.labs.apnic.net/ipv6

Indonesia IPv6 Progress

We are receiving request from some member to upgrade /48 to /32 IPv6 allocation

1 Increased from 0.01% to 0.31% in one year.

2 Waiting for the big player to implement IPv6

3 Majority of traffic is Google Content

Training & Workshop

IDNIC
Activities

IDNIC Workshop Program

IDNIC Workshop Program

1

Yogyakarta

14 - 15 August 2019
Venue : Alana Hotel

Workshop IPv6
Trainier : Arief K &
Akhmad R
Quota : 35 Peserta
Attendance 100%

Workshop RPKI
Trainier : David
Quota : 35 Peserta
Attendance 100%

2

Jakarta

22 October 2019
Venue : APJII Cyber

Workshop IPv6
Trainier : Arief K &
Akhmad R
Quota : 35 Peserta
Attendance 100%

Workshop RPKI
Trainier : David
Quota : 35 Peserta
Attendance 95%

3

Bandung

20 November 2019
Venue : Hotel Hilton Bandung

Workshop IPv6
Trainier : Arief K & Akhmad R
Quota : 35 Peserta
Attendance 100%

Workshop RPKI
Trainer : David
Quota : 35 Peserta
Attendance 100%

Workshop 802.1X
Trainer : Mukhammad Andri &
Agus S
Quota : 35 Peserta
Attendance 100%

4

Surabaya

18 December 2019
Venue : Kampi Hotel
Surabaya

Workshop IPv6
Venue : APJII Cyber
Trainier : Arief K &
Akhmad R
Quota : 35 Peserta
Attendance 100%

Workshop RPKI
Venue : IDC Cyber
Trainier : David
Quota : 35 Peserta
Attendance 95%

2020 IDNIC Workhsop Topic

1 BGP Basic

2 BGP Advanced

3 Network Security

4 Resource Management

**Gather more member with BGP v6 Basic Training
for community.**

Cooperating With APNIC

IDNIC Activities

1 Visited APNIC Office to Learn Best Practice of NIR Operations