



APNIC-45 PRESENTATION

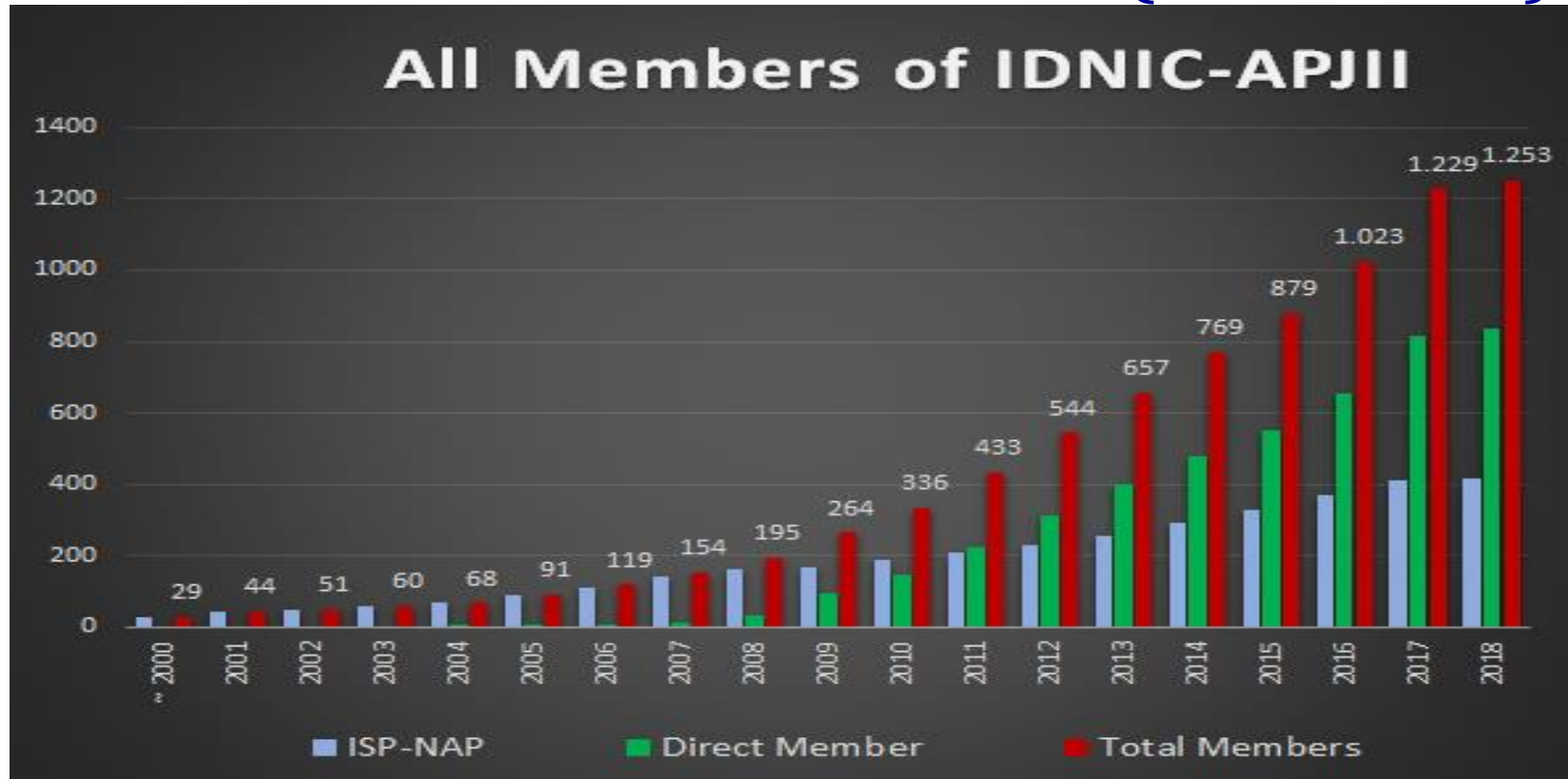
Progres Report APJII-IDNIC

Kathmandu, Nepal, February 26, 2018

Benyamin P. Naibaho

**Asosiasi Penyelenggara Jasa Internet Indonesia (APJII)
Chief of Indonesia Network Information Center (IDNIC)**

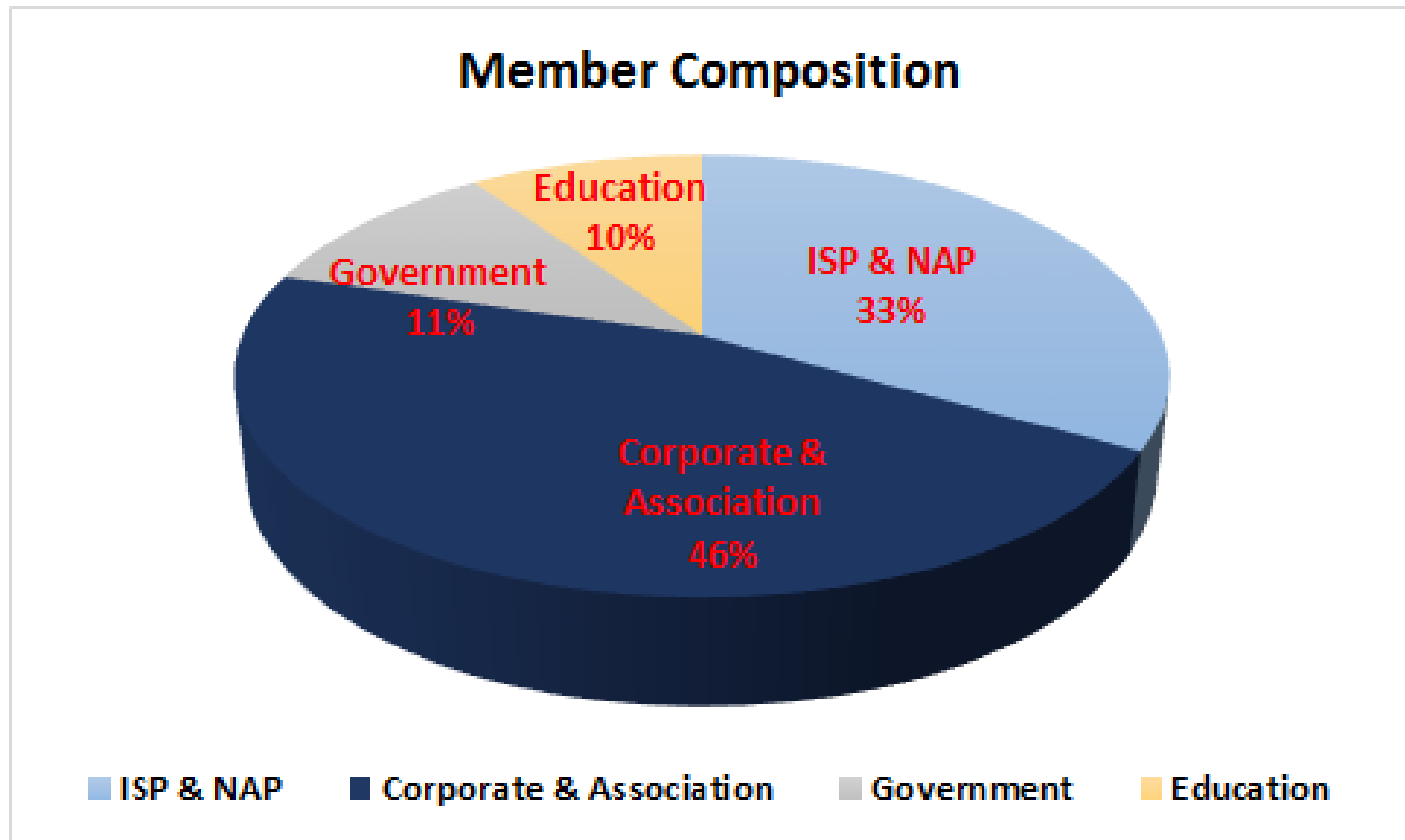
ISP-NAP and Direct Members (Feb 2018)



- Total ISP and NAP: 368 (Des 2016) and 417 companies (Feb 2018)
→ Increased 13,3%
- Total Direct Member: 655 (Des 2016) and 836 users (Feb 2018)
→ Increased 27,6%



Member Compositions (Feb 2018)



IPv4 Allocations

Total IPv4 address Allocation and Assignment: 21,320 block per /24 (Des 2016) to be **21,402 block per /24** (Feb 2018). Increased: 0,38%

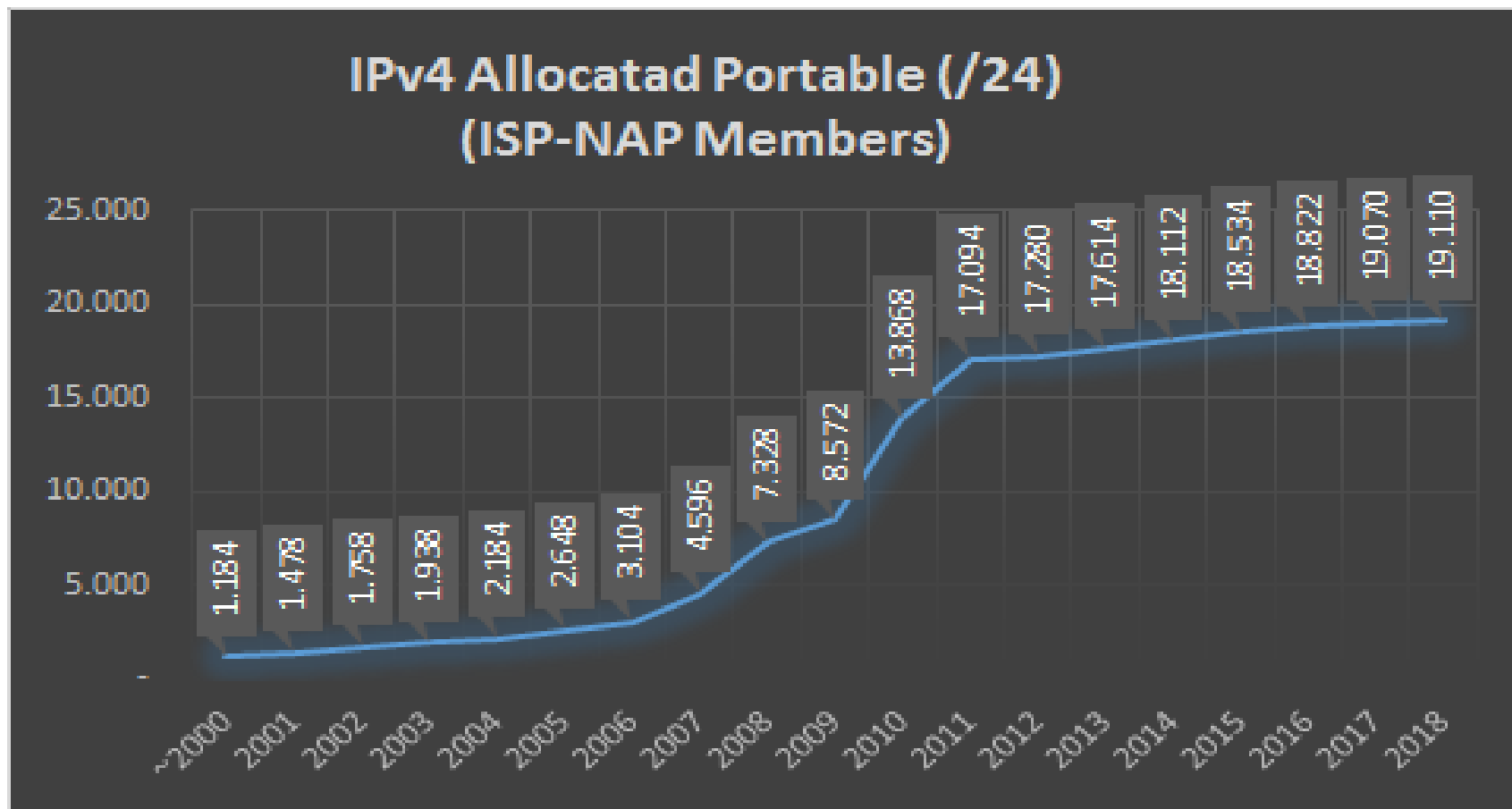
Allocation for ISP/NAP Member: 19,070 block per /24 (Des 2016) to be **19,110 per block /24** (Feb 2018). Increased: 0,21%

Allocation for Direct Member: 2,250 per block /24 (Des 2016) to be **2,292 per block /24 (Feb 2018)**. Increased: 1,87%

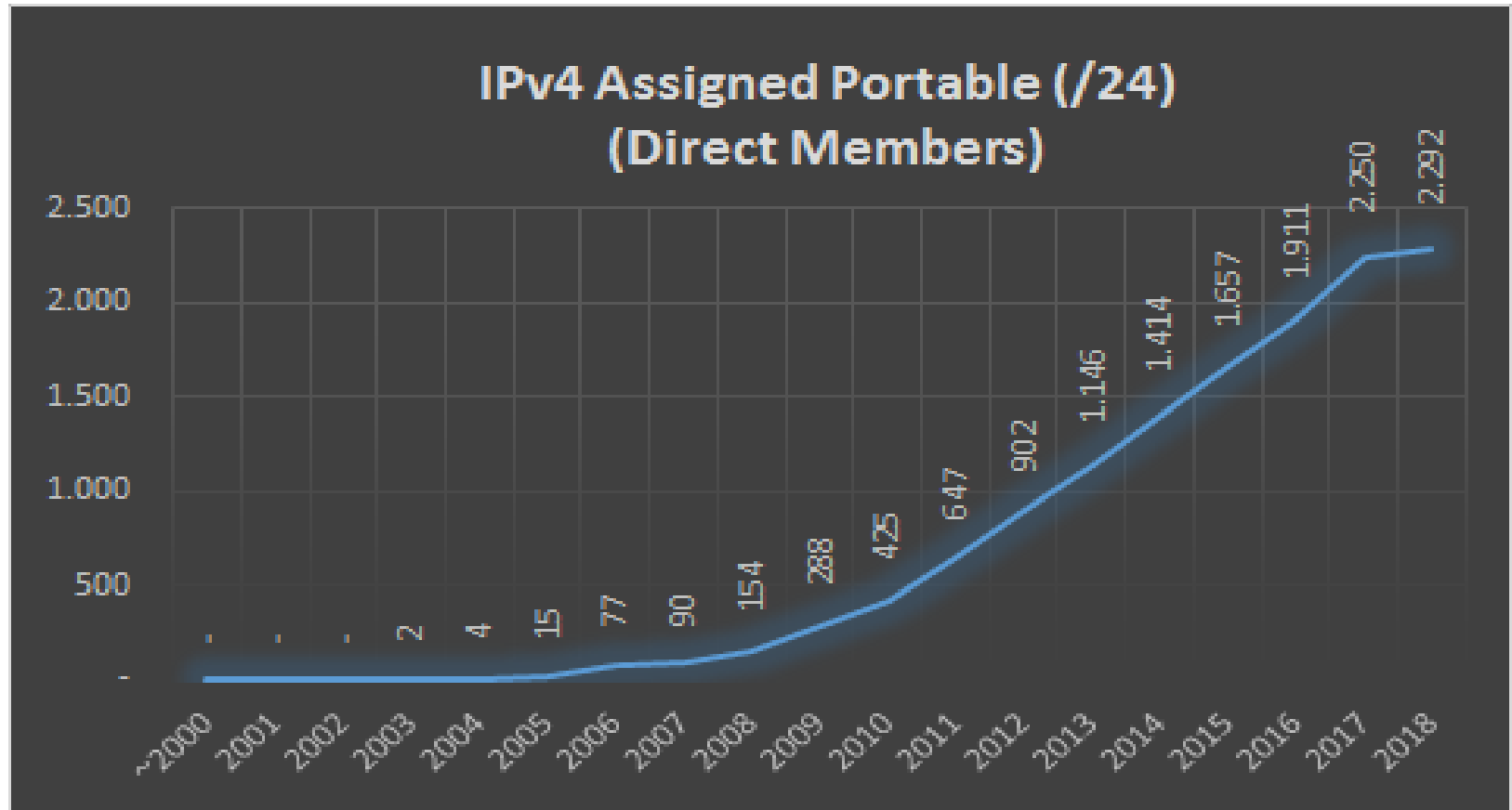
IDNIC Allocation in APNIC is extra large (total IPv4 subnet /9)



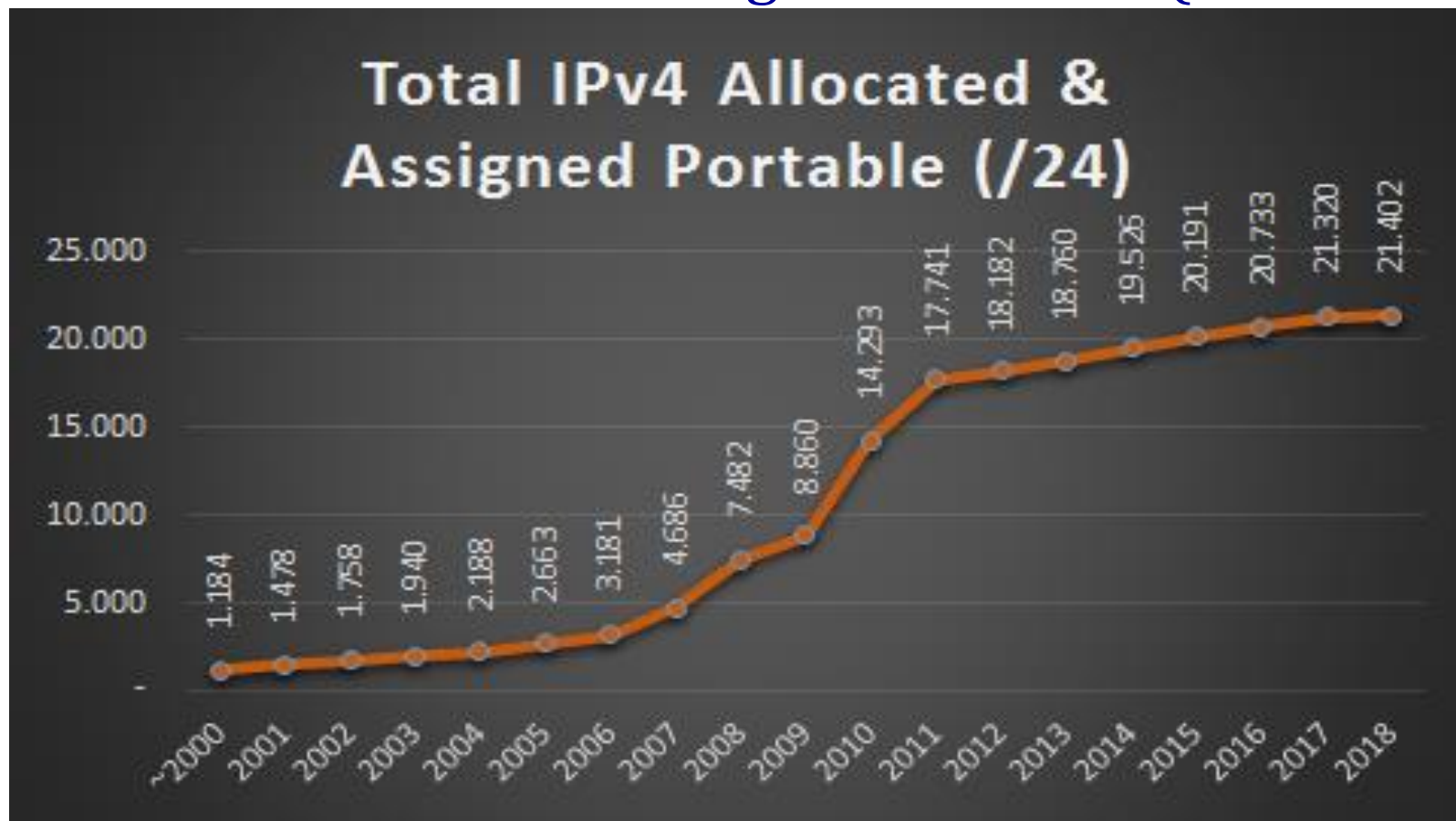
IPv4 Allocation– ISP/NAP Members (Feb 2018)



IPv4 Allocation– Direct Members (Feb 2018)



Total IPv4 Allocated & Assigned Portable (Feb 2018)



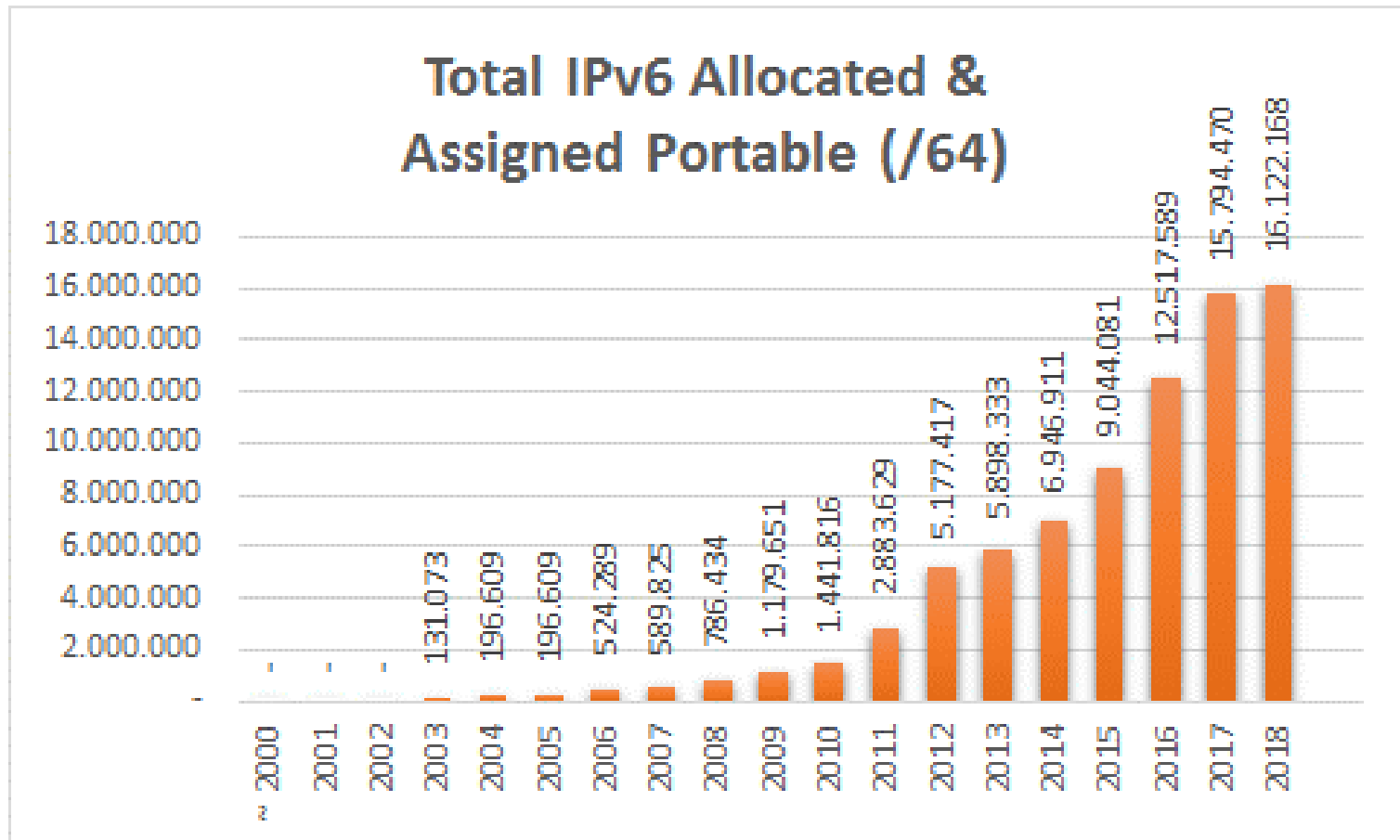
IPv6 Allocations

Total IPv6 address Allocation and Assignment:
12,517,589 blok per/64 (Des 2016)
to be **16,122,168 blok per/64** (Feb 2018).
Increased: 28.8%.

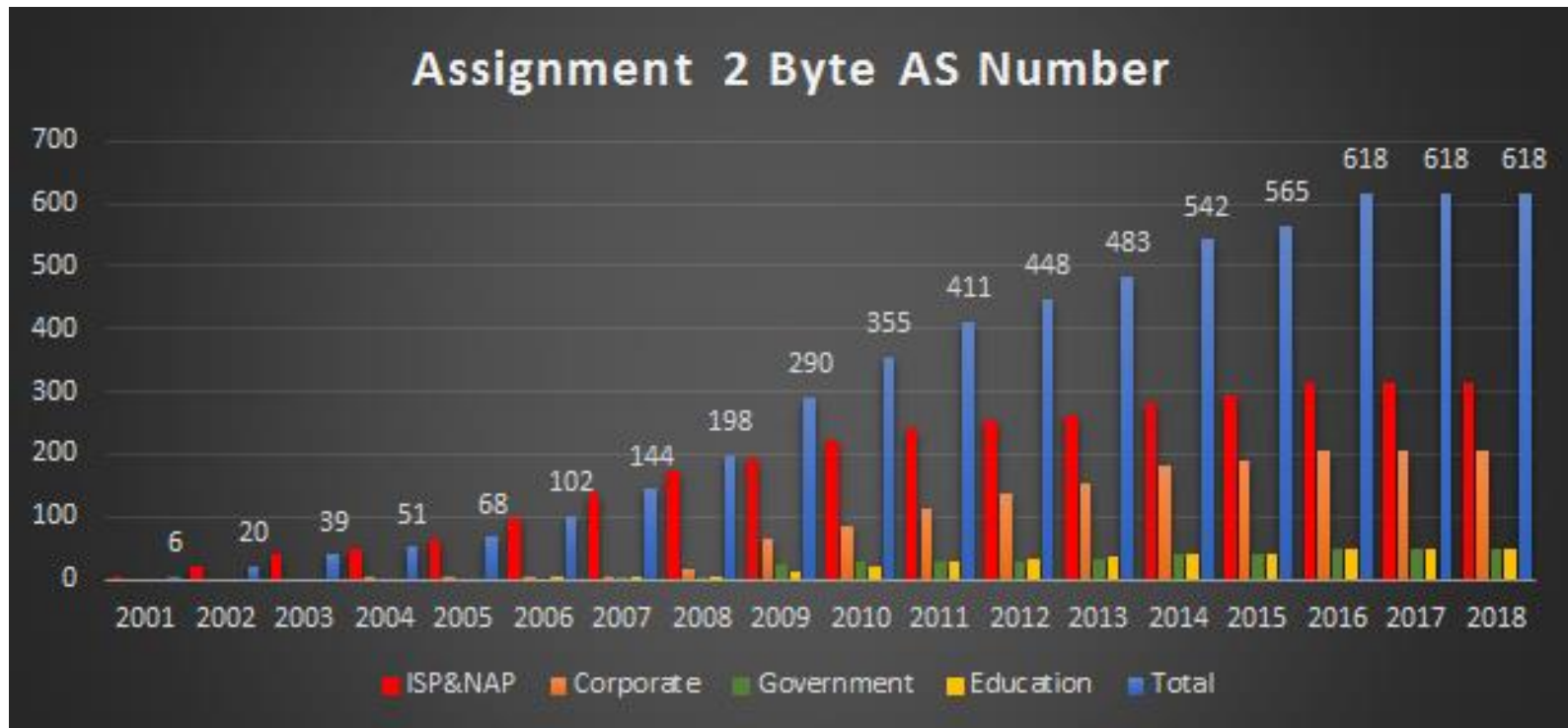
ISP/NAP Members: 251 members (Des 2016)
to be **280 members** (Feb 2018). Increased: 11.6%.

Direct Members/Non ISP: 307 members (Des 2016)
to be **377 members** (Feb 2018). Increased: 22.8 %.

IPv6 Distribution (Feb 2018)

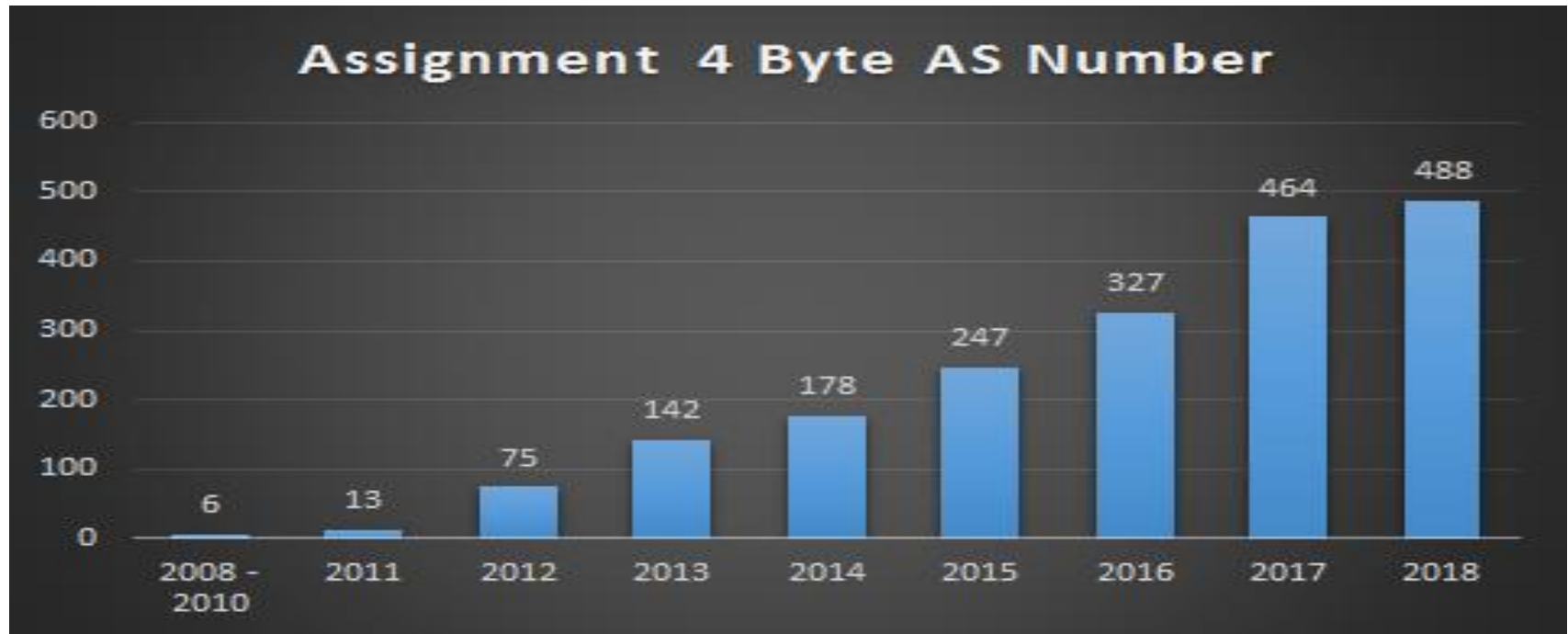


Assignment 2 Byte AS Number (Feb 2018)



- Until Feb 2018, there has no change data since 2016, due to default allocation is 4 Bytes AS Number.

Assignment 4 Byte AS Number (Feb 2018)

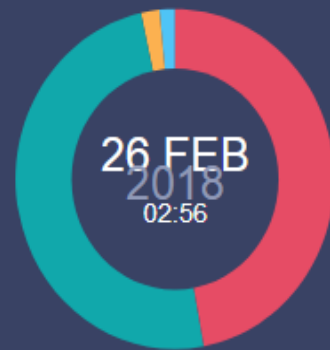


- Total AS Number 4 Byte *assignment* to IDNIC Members: 327 pool (Des 2016) to be **488 pool (Feb 2018)**. Increased: 49.2%
 - 121 ASN assigned for NAP/ISP
 - 367 ASN assigned for Direct Member IDNIC

Open-Internet Exchange Point (IXP) Traffic Profile

NATIONAL INTER CONNECTION EXCHANGE [NiCE/OpenIXP]  

OPENIXP CURRENT 75 G



R1 IN	R1 OUT	R2 IN	R2 OUT
47%	49%	1%	1%

380G

peak traffic

845

ASNs

617

peers

Current traffic 26-FEB-2018 at 02:56

72.63G
ROUTER 1

2.59G
ROUTER 2

75.22G
TOTAL

Peak traffic today was at 00:06:11

R1 in	R1 out	R1 total	R2 in	R2 out	R2 total	Total
99645.55	101387.26	201032.81	2248.95	2753.61	5002.56	206035.37

Peak traffic of OpenIXP was on 2018-02-20 at 09:56:10

R1 in	R1 out	R1 total	R2 in	R2 out	R2 total	Total
192032.95	177293.93	369326.88	4560.84	6480.82	11041.66	380368.54



Indonesia Internet Exchange (IIX) Traffic Profile

'Weekly' Graph (30 Minute Average)



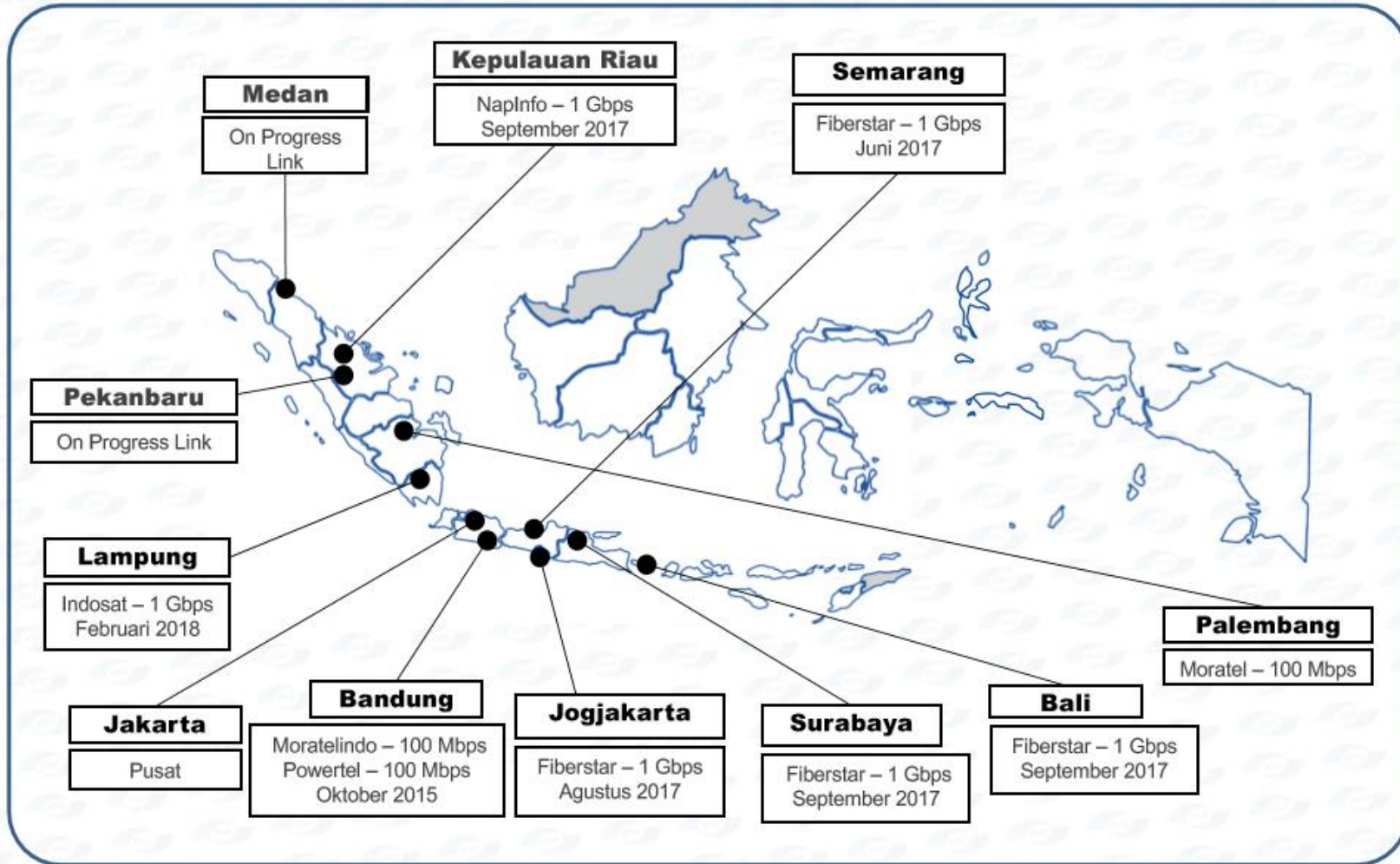
	Max	Average	Current
In	44.6 Gb/s	30.0 Gb/s	37.5 Gb/s
Out	49.7 Gb/s	33.2 Gb/s	43.7 Gb/s

'Monthly' Graph (2 Hour Average)



	Max	Average	Current
In	46.5 Gb/s	27.6 Gb/s	29.0 Gb/s
Out	50.6 Gb/s	29.5 Gb/s	33.2 Gb/s

Indonesia Internet Exchange (IIX) Location



APJII-IDNIC Routine Activities

- Manages and distributes blocks of IP numbers from APNIC
- Verification of the requirements to get the IP Number
- Establish technical guidelines for implementation IP numbers
- Organizing programs of education and socialization
- Reported on the implementation of APJII-IDNIC activities to APNIC, periodically or at any time
- Coordinate with the finance department for member's billing

APNIC – APJII Training Schedule 2017-2018

Network Security
Denpasar
April 25-27, 2017

Internet Resource
Management
Riau
July 31 - Aug 2, 2017

Routing
Medan
Nov 20-22, 2017

IDNOG Training
Jakarta
July 24-26, 2018

IPv4 / IPv6 BGP
Routing
Yogyakarta
Feb 5-9, 2018

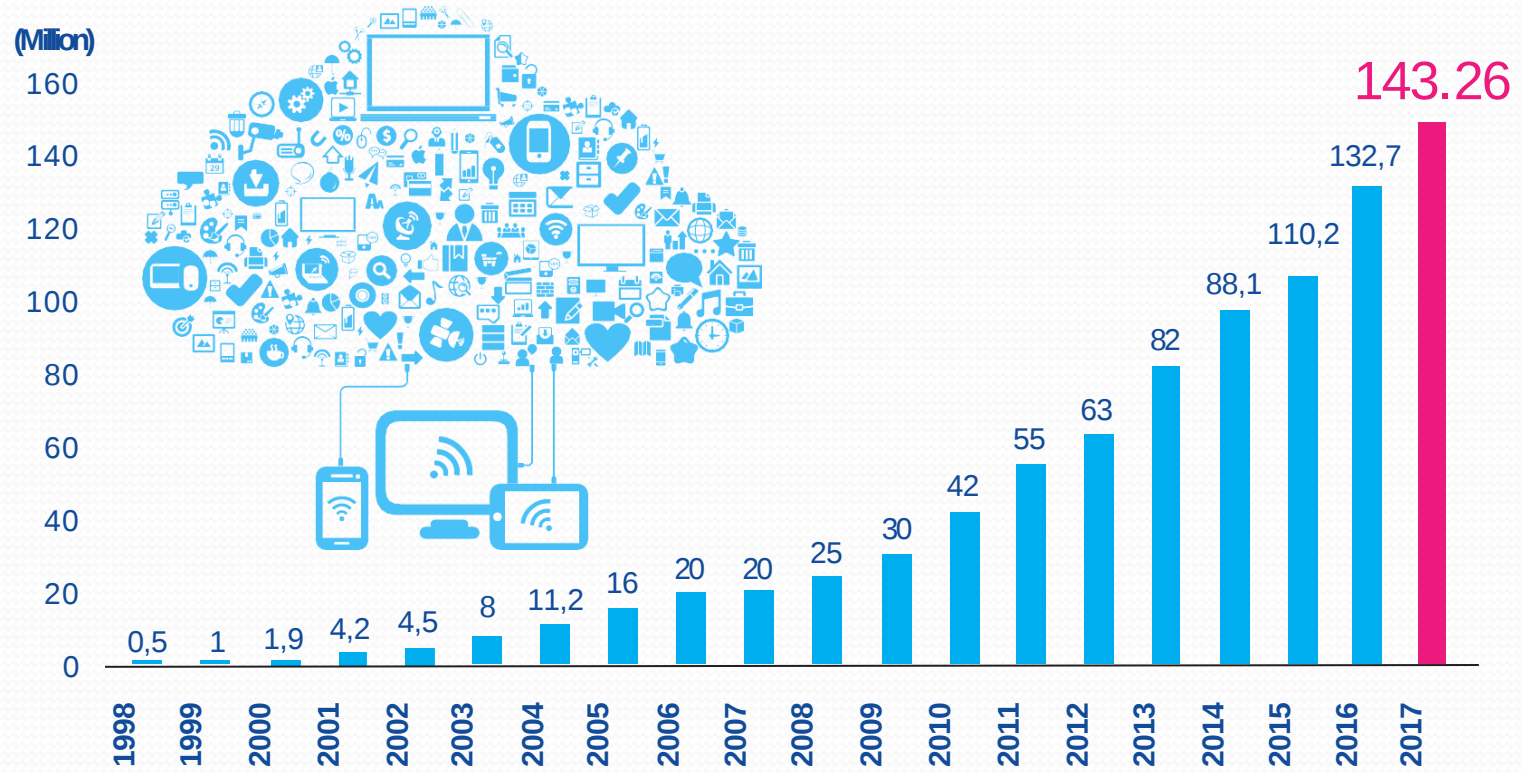
Training of Trainer
Jakarta
March 5-23, 2018

Network Security
Semarang
April 25-27, 2018

Indonesia Internet Survey February 2018



INTERNET USERS GROWTH



INDONESIA INTERNET PENETRATION



54,68%



143.26

Million



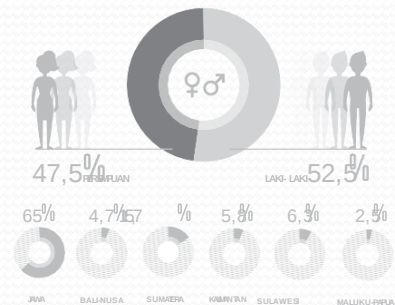
Total Population

262 Million

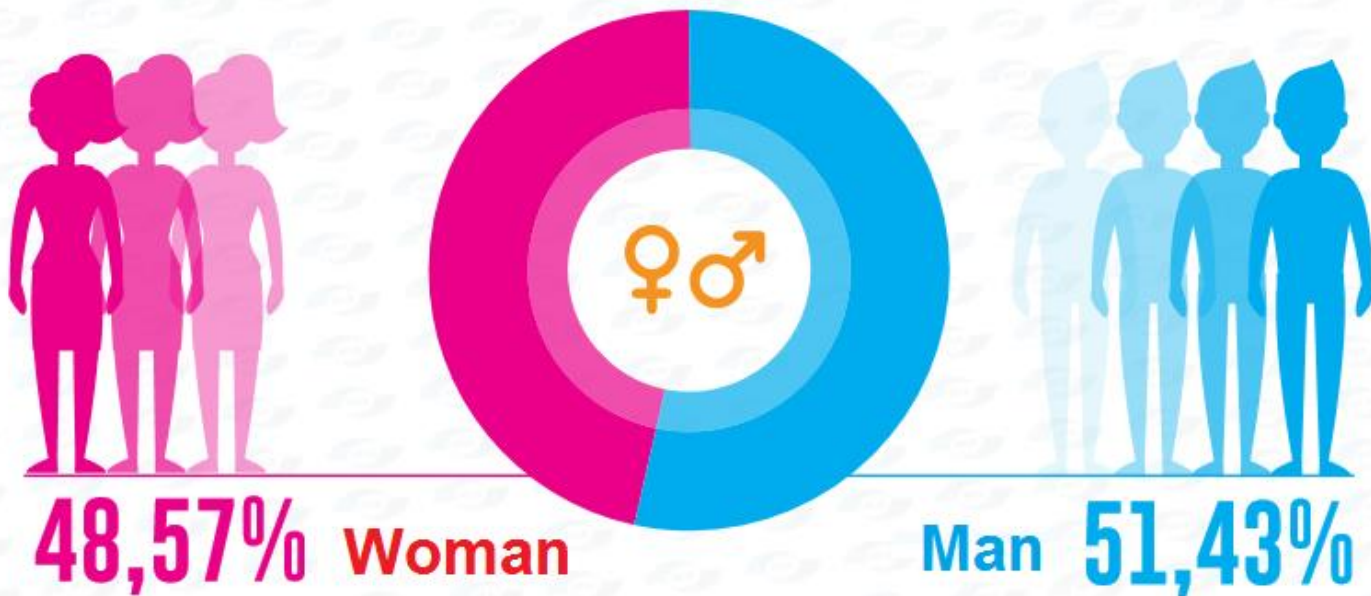
2016

PENETRASI PENGGUNA
INTERNET INDONESIA 2016

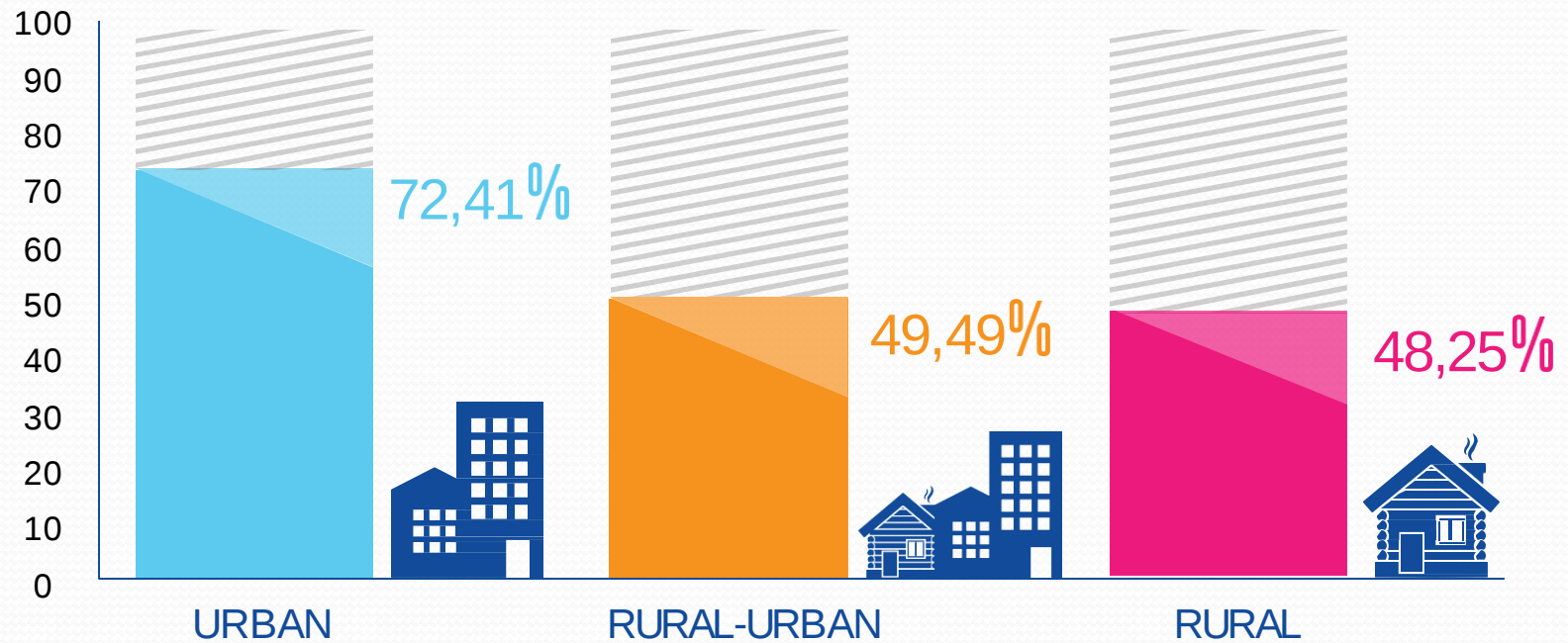
132,7
JUTA JIWA



Internet User Composition by Gender



INTERNET PENETRATION BASED ON REGIONAL CHARACTER





INFOGRAFIS

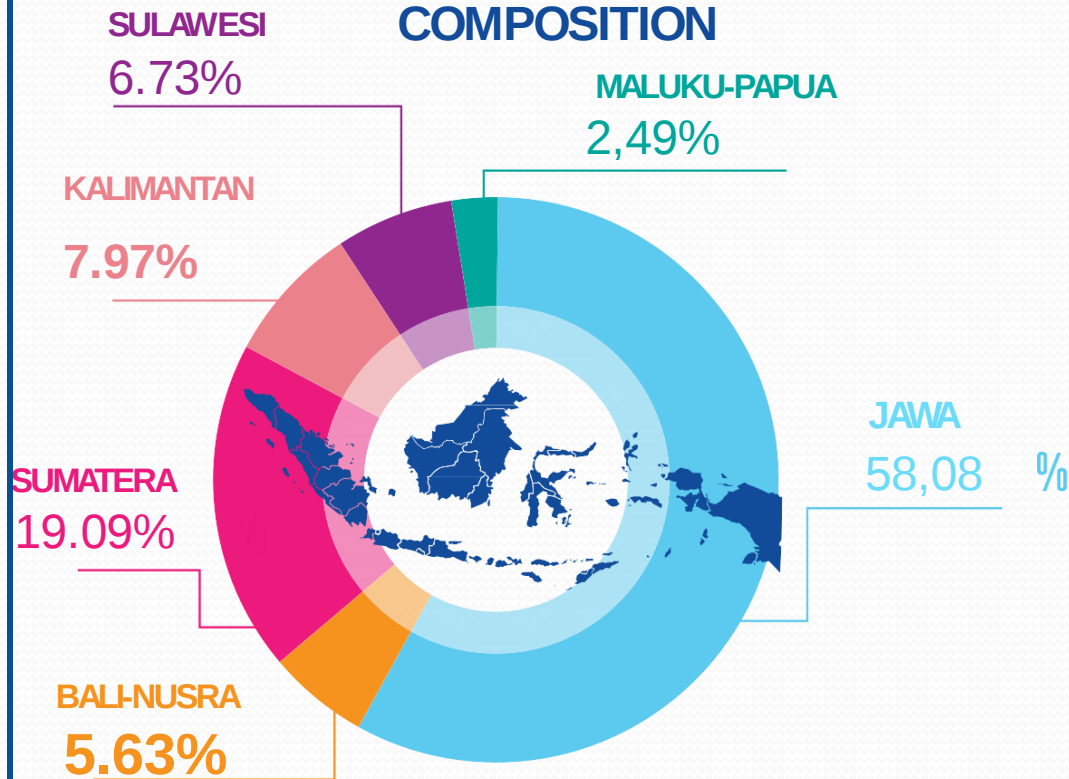


Asosiasi
Penyelenggara
Jasa
Internet
Indonesia

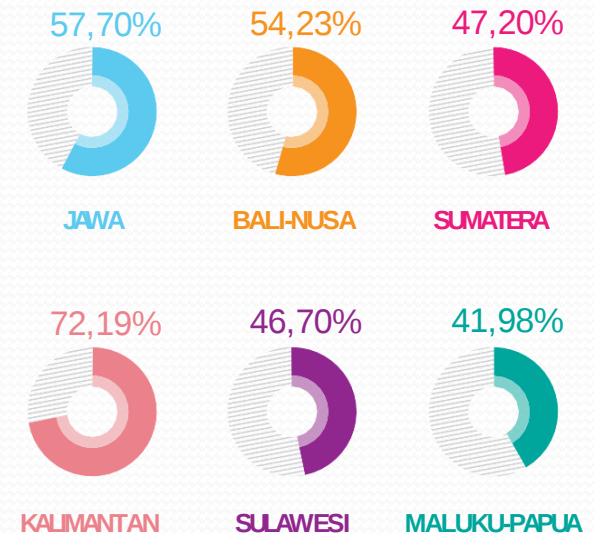
INDONESIA INTERNET SERVICE PROVIDER ASSOCIATION

REGIONAL OVERVIEW : INTERNET USERS

COMPOSITION



PENETRATION



Presentation of Device Ownership

KOMPUTER/LAPTOP

25,72%



SMARTPHONE/TABLET

50,08%





indonesia
network
information
centre

Thank you



TCP/IP

