



PH INTERNET LANDSCAPE

Achie Atienza

APRICOT 2023

Sofitel Philippine Plaza Manila

28 February 2023

DISCLAIMER



PH IN NUMBERS

7,641
Islands
(high tide)

2,000
Inhabited (26%)
3 Major Island groups

113.44M
(as of Feb 2023)

MANILA
Capital

10

International Submarine
Cable systems

670

Autonomous System Number
(ASNs)

10

Local Internet
eXchange Points (IXPs)

9

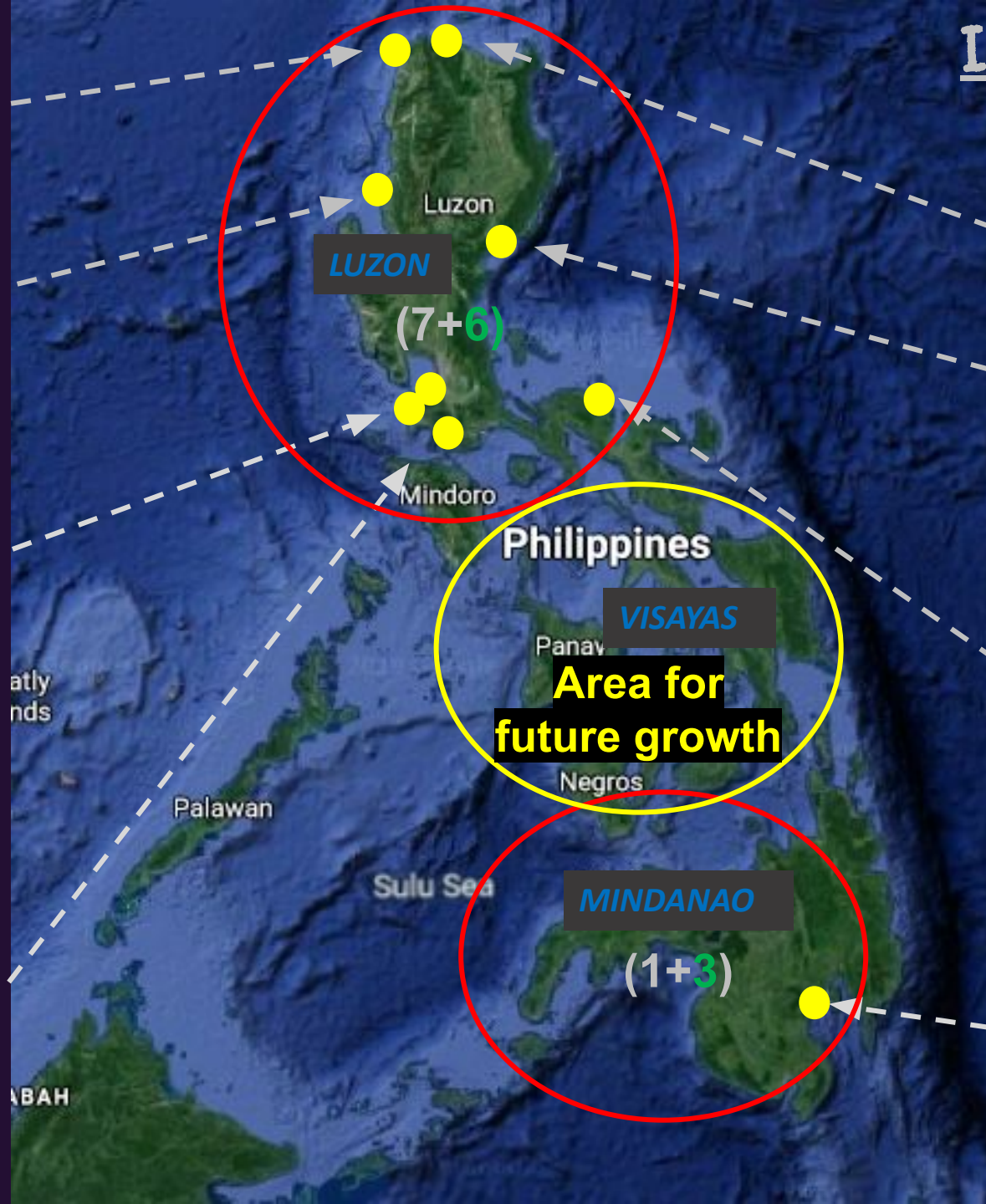
International Cable
Landing Stations (CLS)

14

Data Center (DC)
Facilities

Reference: APNIC, Google
Note: additional info, not yet publicly available

INTERNATIONAL CABLE SYSTEMS



Subsea Cables : 9+10*
● CLS : 7+2

Ballesteros:
TGN-IA
Mar 2009

Aurora (2):
PLCN
JAN 2022
APRICOT
Q4 2024

Daet:
JUPITER
2020
ASE
Aug 2012

Davao(1+3):
SEA-US
Aug 2017

Bifrost
Q2 2024
ACC-1
2025

APRICOT
Q4 2024

Pandemic Effect?
10/19 cables
starting 2020
9/10 cables
during/post Pandemic

Reference: <https://www.submarinecablemap.com/#/country/philippines>

Pagudpud:
CAP-1
2024

La Union/Luna (1+2):
AAG
Nov 2009
SEA-H2X
2024

ALC
Q3 2025

Batangas(3+1):
SJC
Jun 2013
APCN2
Dec 2001
SMW3
Sep 1999
ADC
Q4 2022

Cavite:
EAC/C2C
Nov 2002

PH ISPs

IP allocation (IPv4)

Majority of IPv4 space still managed by Globe and PLDT, but growth and demand drives good competition (or vice versa)

ASN	NETWORK	IPs
AS9299	Philippine Long Distance Telephone Company	3,023,616
AS4775	Globe Telecoms	679,168
AS6648	Bayan Telecommunications, Inc.	365,568
AS132199	Globe Telecom Inc.	314,368
AS17639	Converge ICT Solutions Inc.	297,728
AS9658	Eastern Telecoms Phils., Inc.	267,520
AS10139	Smart Broadband, Inc.	176,384
AS7629	EPLDT	173,568
AS23944	SKYBroadband SKYCable Corporation	131,072
AS3550	Ateneo de Manila University	63,488
AS17970	SKYBroadband SKYCable Corporation	49,152
AS55821	RADIUS TELECOMS, INC.	47,104
AS23930	IP-Converge Data Center, Inc.	38,144
AS18190	SunValley New Oriental	29,440
AS45754	Clear Path Networks Inc	17,408
AS9927	A Multihomed ISP Company	17,408
AS56207	ComClark Network & Technology Corp	16,384
AS4759	TEXTRON CORPORATION	16,384
AS17895	Globalreach eBusiness Networks, Inc.	16,128
AS56099	Asian Vision Cable	15,360
AS135607	Infinivan Incorporated	14,080
AS17894	AyalaPort Makati, Inc. / Data Center Operator	13,312
AS38325	WTP	13,056
AS134707	RoyalCable Flash	11,264
AS18187	Source Telecoms Inc.	10,240
AS18233	Philippine Telegraph and Telephone Corporation,	10,240
AS9821	Department of Science and Technology	10,240
AS38553	Internet Service Provider and Data Center	9,984
AS45499	Cablelink & Holdings Corp.	9,216

PLDT

Globe

New Players / Rebrand / Expansion

DITO AS139831
(3rd Player)

Cable TV Providers
Offering Internet Services

Radius (Power utility)
Wifi City = SourceTel)
PT&T... Fiber

Ph ISPs

by local function

Telco ISPs

Multi-service providers / Mobile Operator

ISPs

Internet Service Providers

Cable TV

Cable TV providers offering Internet Services

Enterprise

Managed infrastructure (Businesses)

Academe

Managed infrastructure (Schools/Research)

Government

Managed infrastructure (Government)

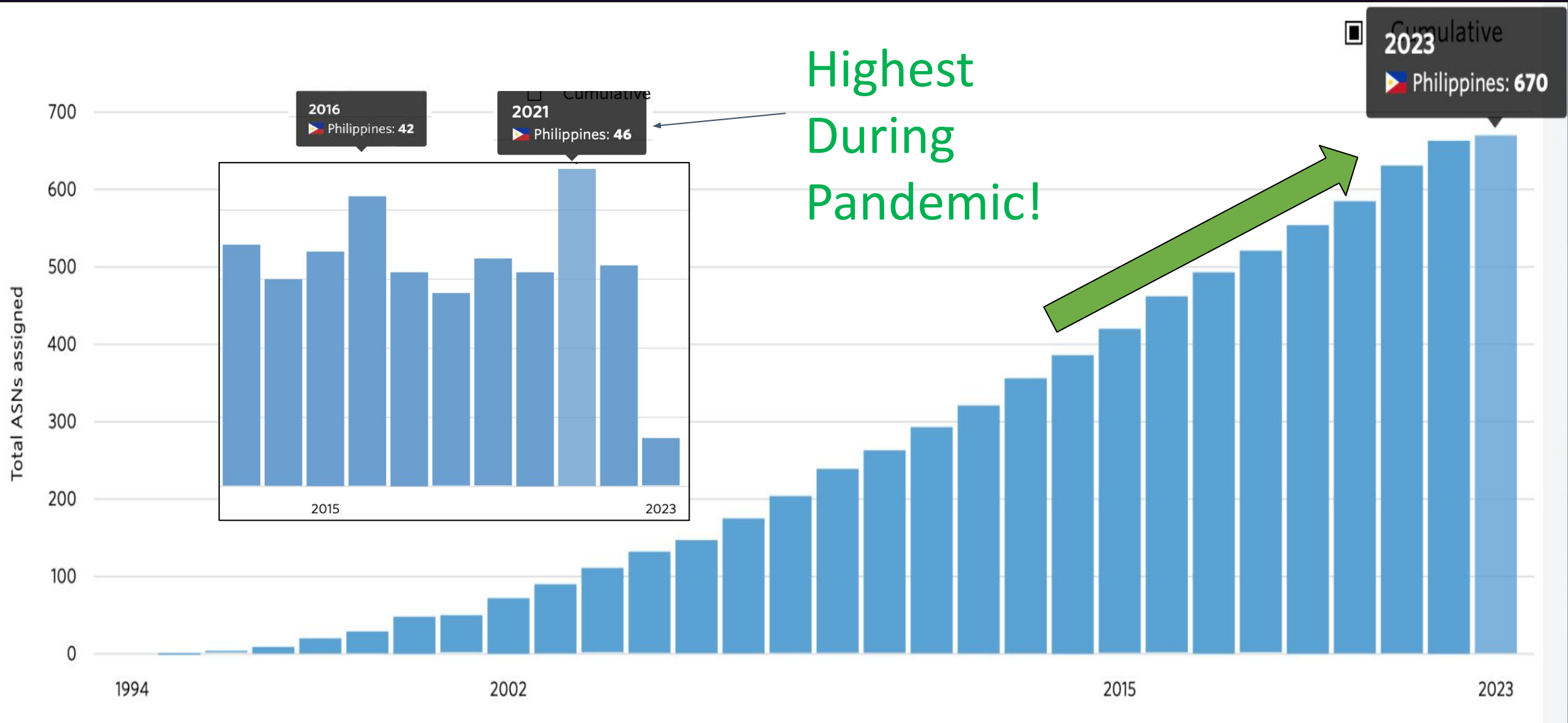
PAPTELCO

Managed Infrastructure (Private)

Philippine Association of Private Telecommunications Companies

PH ASNs

Continuous growth of new networks “Driven by Peering!”

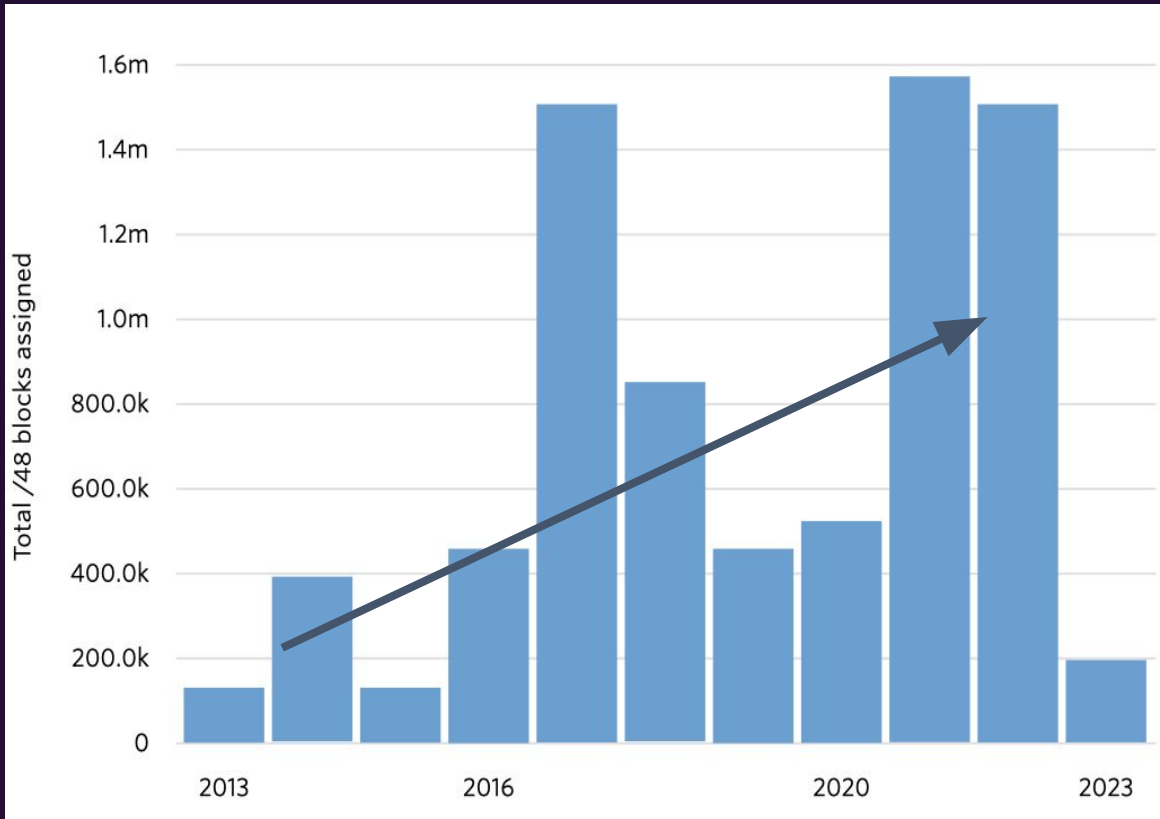


PH IPv6

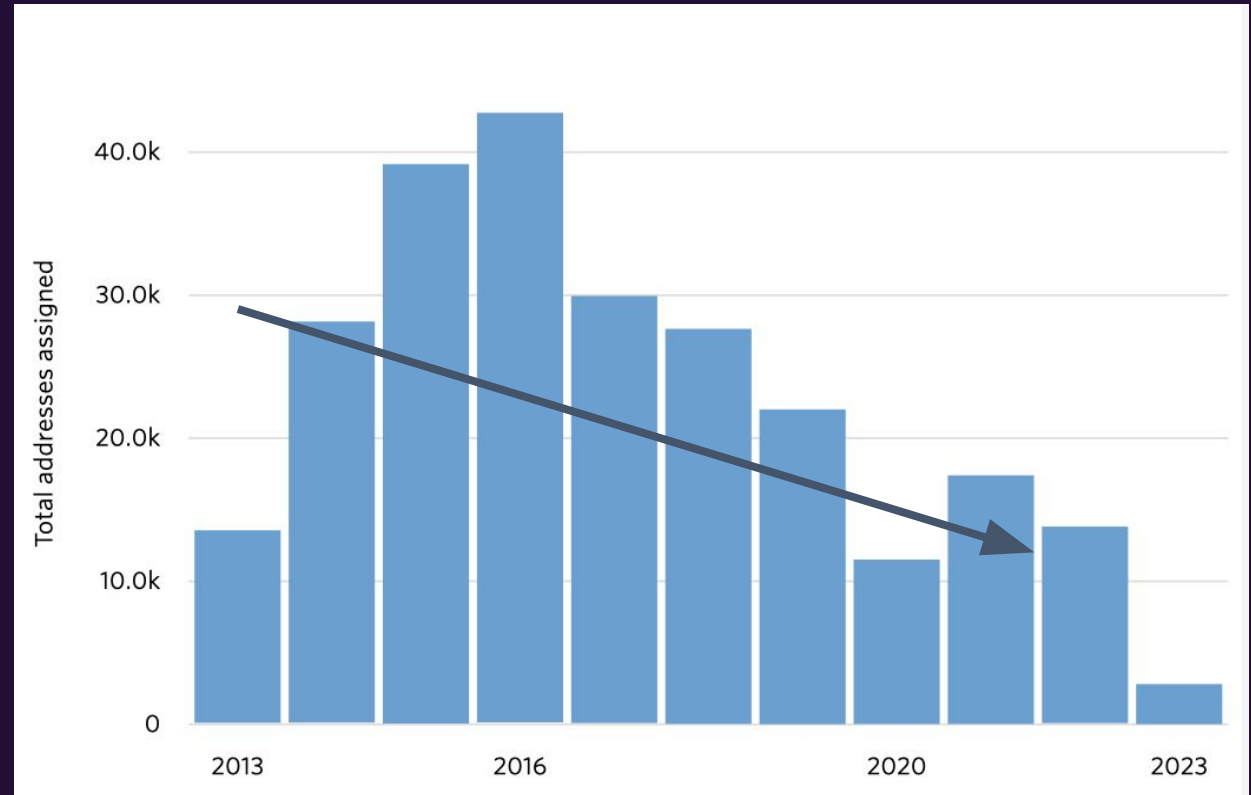
Adoption “also” influenced the Network transformation (Services)

Dual stack for “IPT, Broadband & Mobile Services”

IPv6



IPv4



IXP & DC LANDSCAPE

IXPs (9+1*), DCs (11+3)

IXPs

Manila(9)**

ComclarkIX
MIX
GETAFIX
GIX/NIGX
PCTA-IX
PHIX
PhOpenIX
VIX
DE-CIX

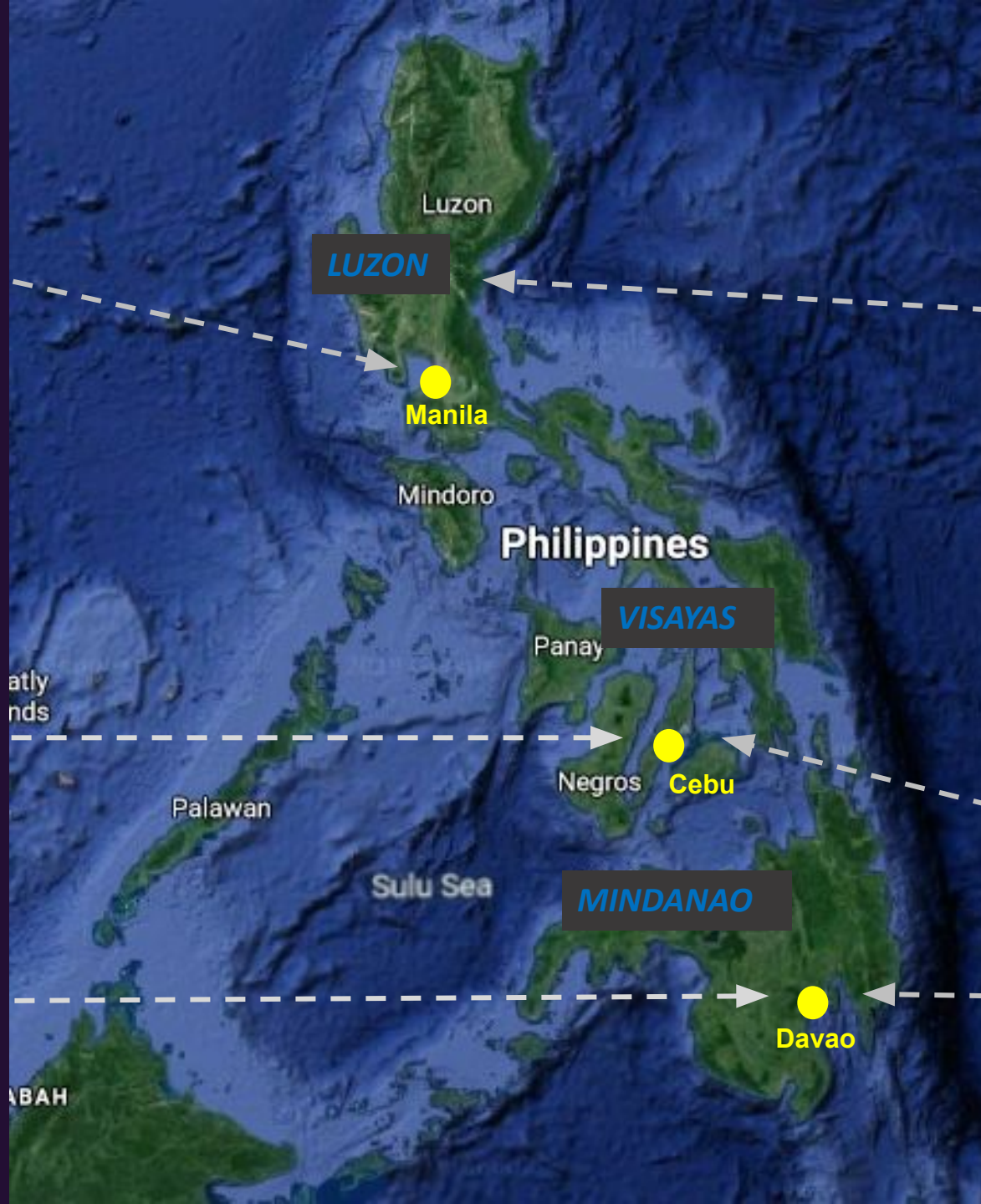
Cebu(4)

GETAFIX
GIX
PhOpenIX
VIX

*Davao(3)

GETAFIX
GIX
PhOpenIX

**more soon



Data Centers

Luzon(11+3)

Bee Info Tech
Comclark
DataOne
Digital Edge
Eastern Communications
FlowDigital*
IP Converge
VST-ECS
Globe Telecom
PHCOLO
PLDT
STT
Tech Global
TIM

Visayas - Cebu(2+1)

Globe Telecom
PLDT
STT

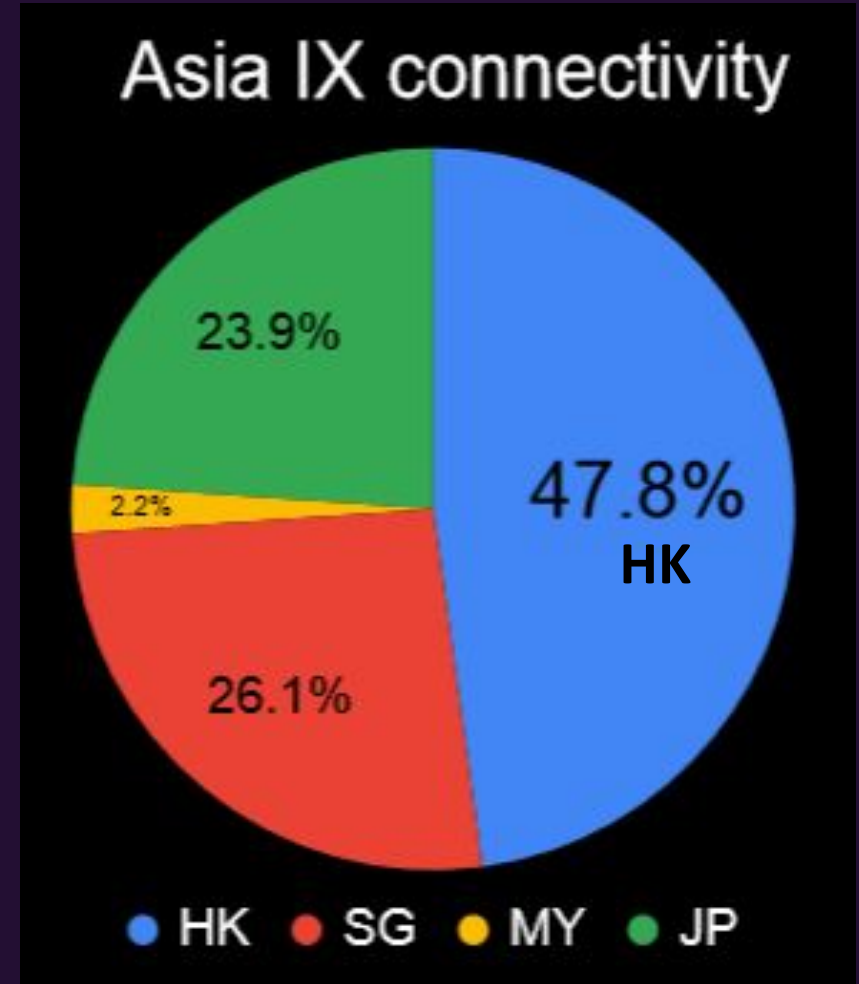
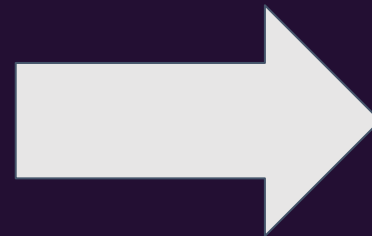
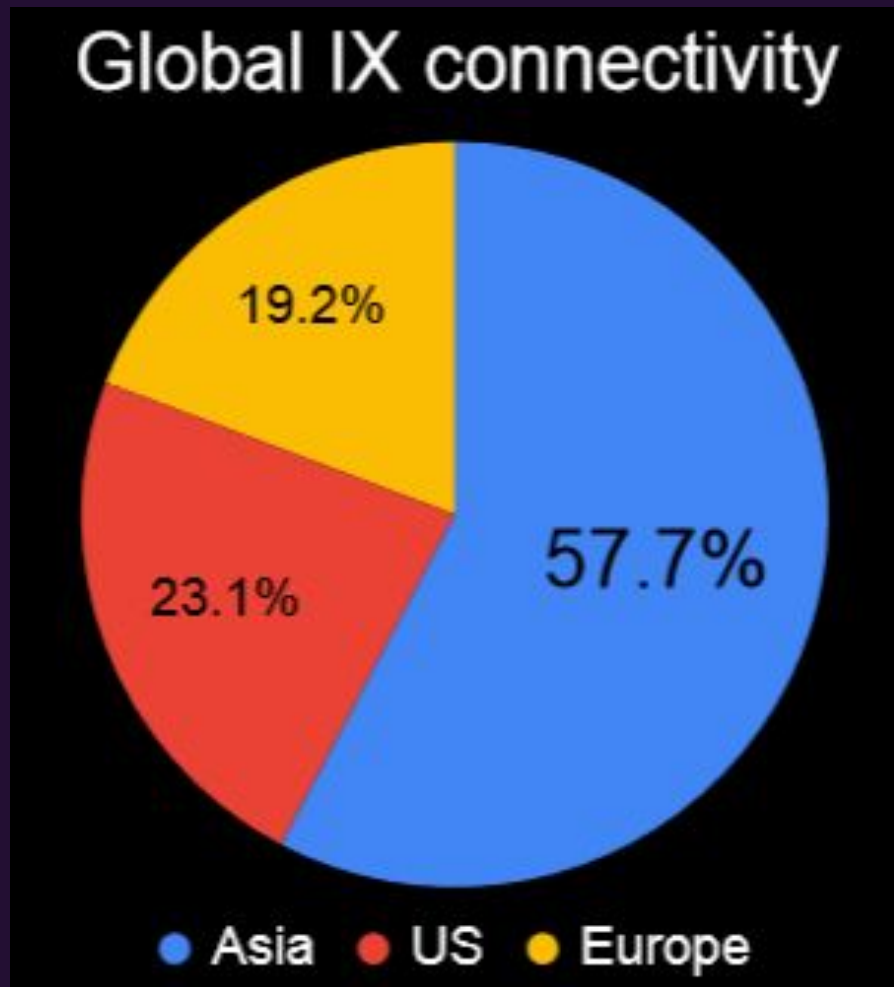
Mindanao - Davao(2+1)

Globe Telecom
PLDT
STT

*soon

GLOBAL IX CONNECTIVITY

Traffic remains Asia centric (Historically US) - PNI port size increases (100G)



KEY LOCAL TRENDS . . . OR LESSONS

Ph Positioned as Alternative/New Regional hub

New players (New ASNs) from Cable TVs

Port size - growing to 100Gs (or nx100)

Policy - more open to Peering ("learned" the benefits)

Expansion - IXP connectivity, link diversity, multiple sessions

Geo politics - still BAU but increasing demand for clean pipe services

Regulatory - Anti Child porn (RA 9775)

Top Traffic - Social Media/OTT and own content

KEY LOCAL TRENDS . . . OR LESSONS

Increasing International collaboration

Data Center: **Globe Data Center & STT**
New DCs (Digital Edge, FLOW)

IXP: **GETAFIX & DE-CIX**...more coming

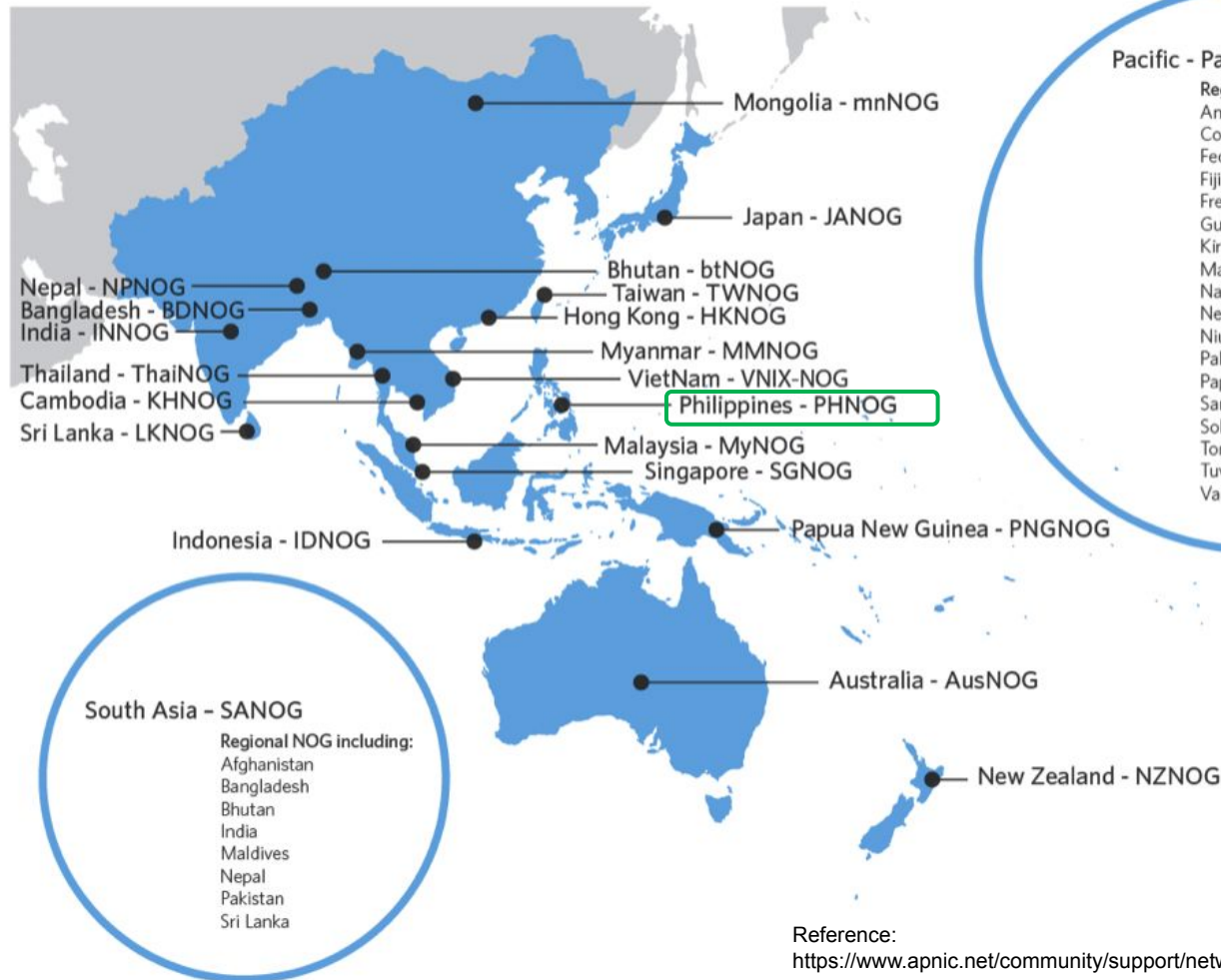
Cable System: **New subsea links (9)**

Satellite: **Starlink**

Community: **US AID/Beacon, AORA (Open RAN)**

PEOPLE NETWORK : Community (PhNOG)

NOGs in the ASIA PACIFIC



Neutral Ground
Knowledge sharing
Collaboration

ANO NA ?

“ Diskarte ”

We'll find a way :)

WALANG KATAPUSAN . . .

- No Finish Line -

Konsyensya

Internet of Conscience

MARAMING SALAMAT!

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AS4775

ROAD TO 100% . . .

A stylized map of Southeast Asia is shown in shades of green. A white callout box with a thin grey border is positioned over the Philippines. Inside the box, the text 'PH' is written in large, bold, black letters, and below it, '%: 96.75' is written in the same style. The rest of the map shows the outlines of other countries in the region, including Thailand, Vietnam, Laos, Cambodia, and Indonesia.

PH
%: 96.75