



# PH INTERNET LANDSCAPE

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APRICOT 2023 - AP\*

Sofitel Philippine Plaza Manila

26 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

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

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

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

**Bifrost**  
 Q2 2024  
**ACC-1**  
 2025

**APRICOT**  
 Q4 2024

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



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

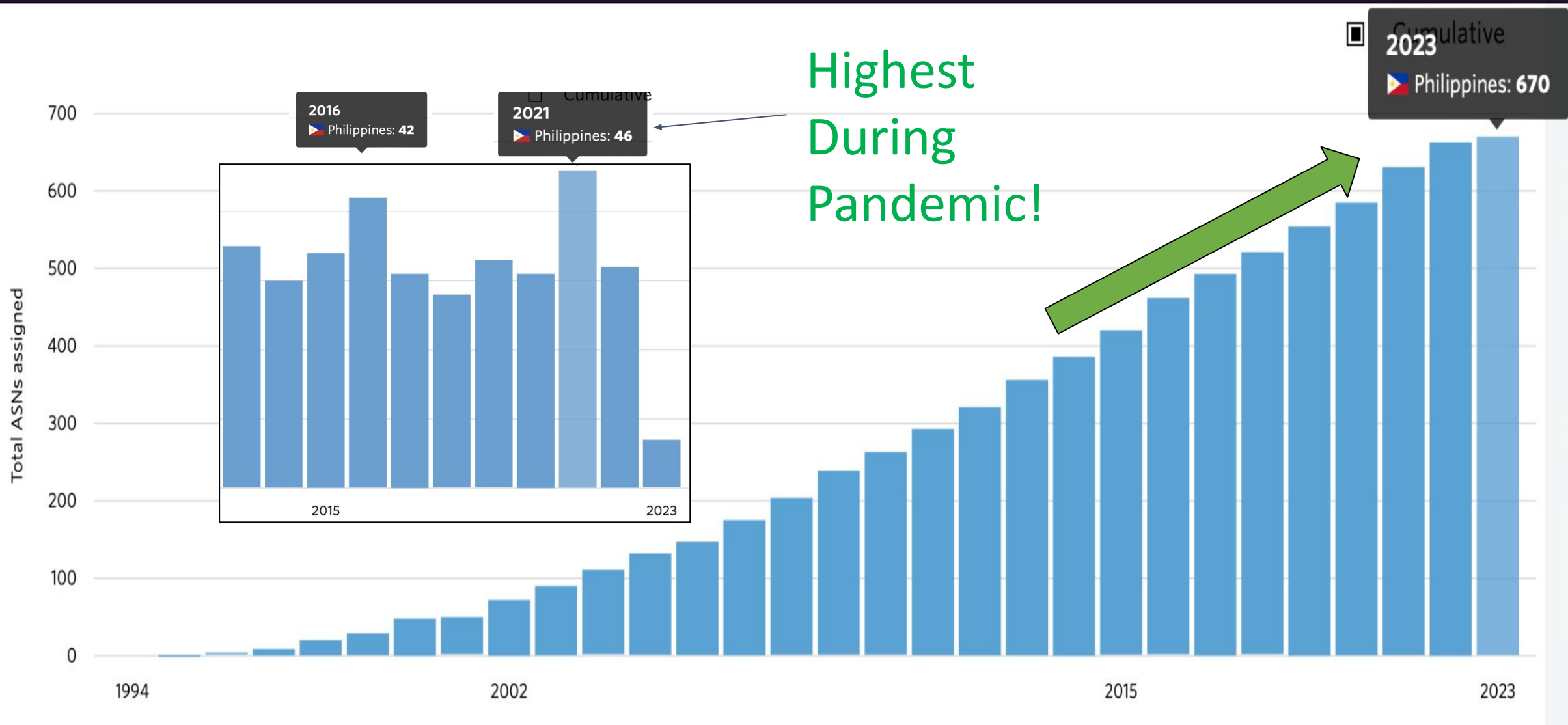
PAPTELCO

Managed Infrastructure (Private)

Philippine Association of Private Telecommunications Companies

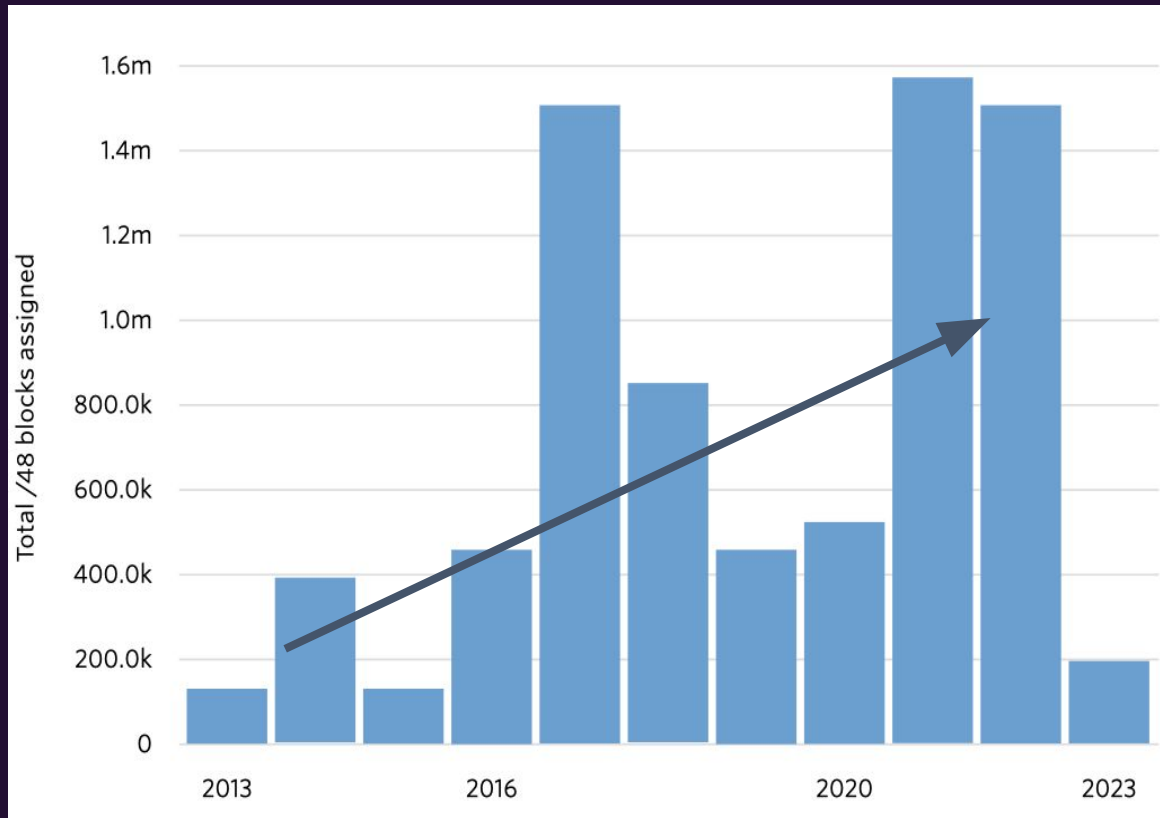
# PH ASNs

Continuous growth of new networks **“Driven by Peering!”**

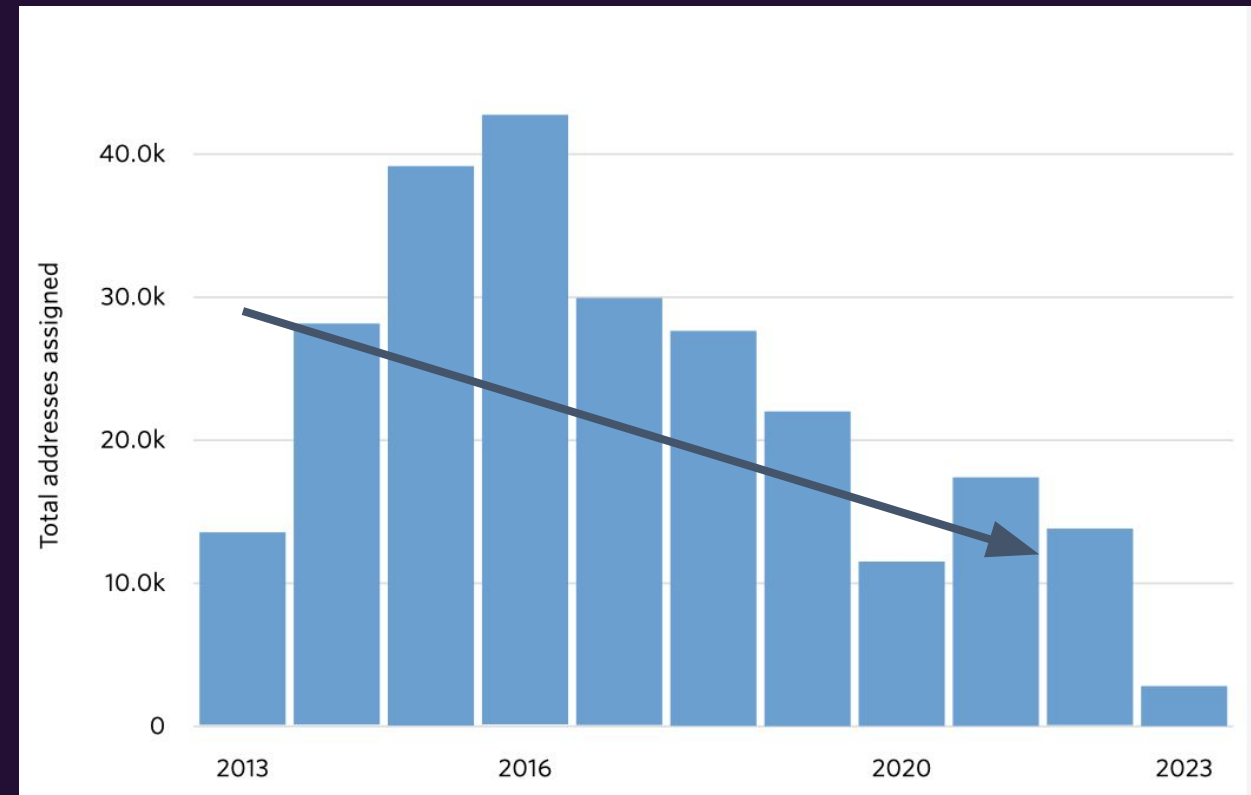


## Dual stack for “IPT, Broadband & Mobile Services”

### 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

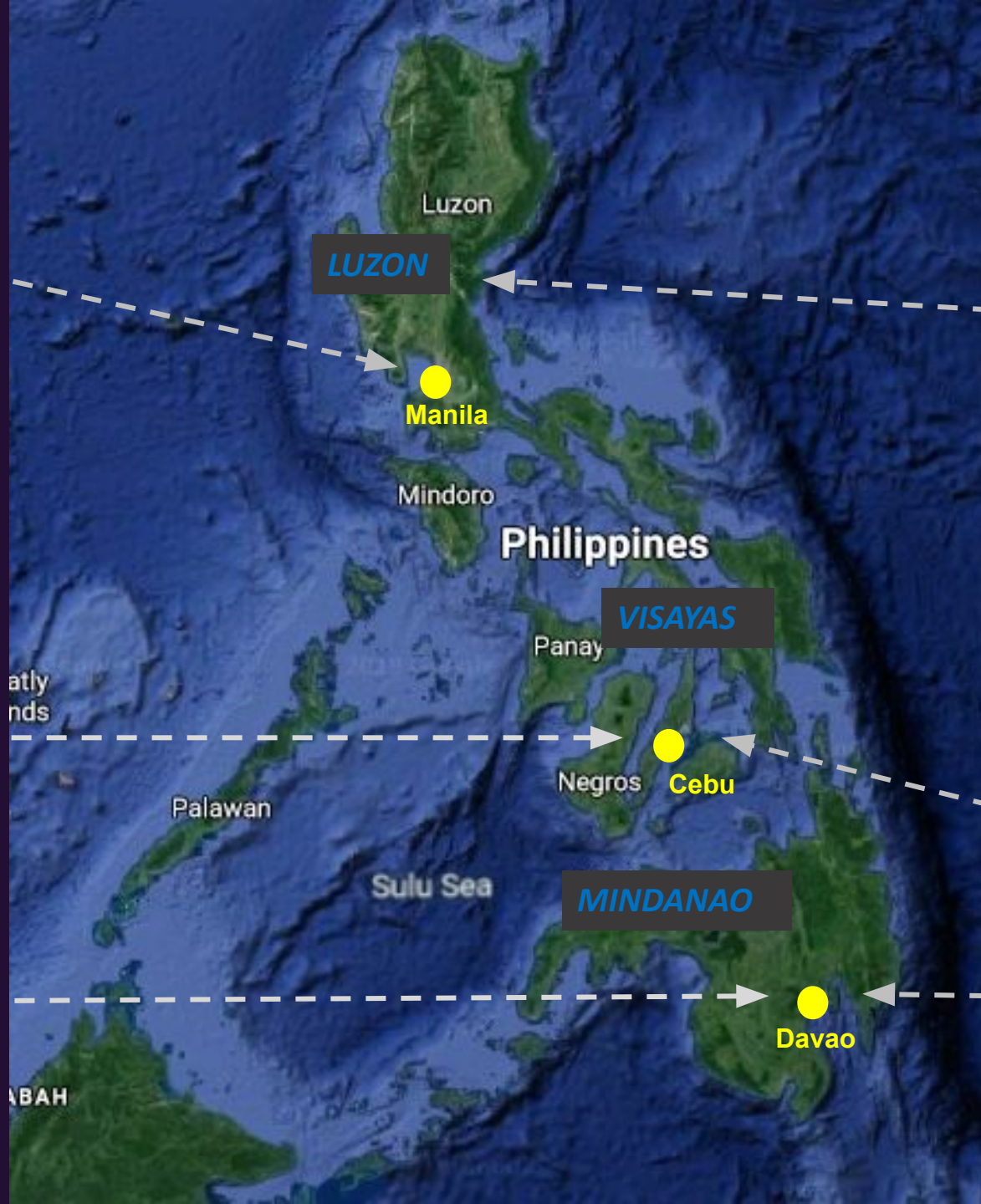
### Cebu(4)

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

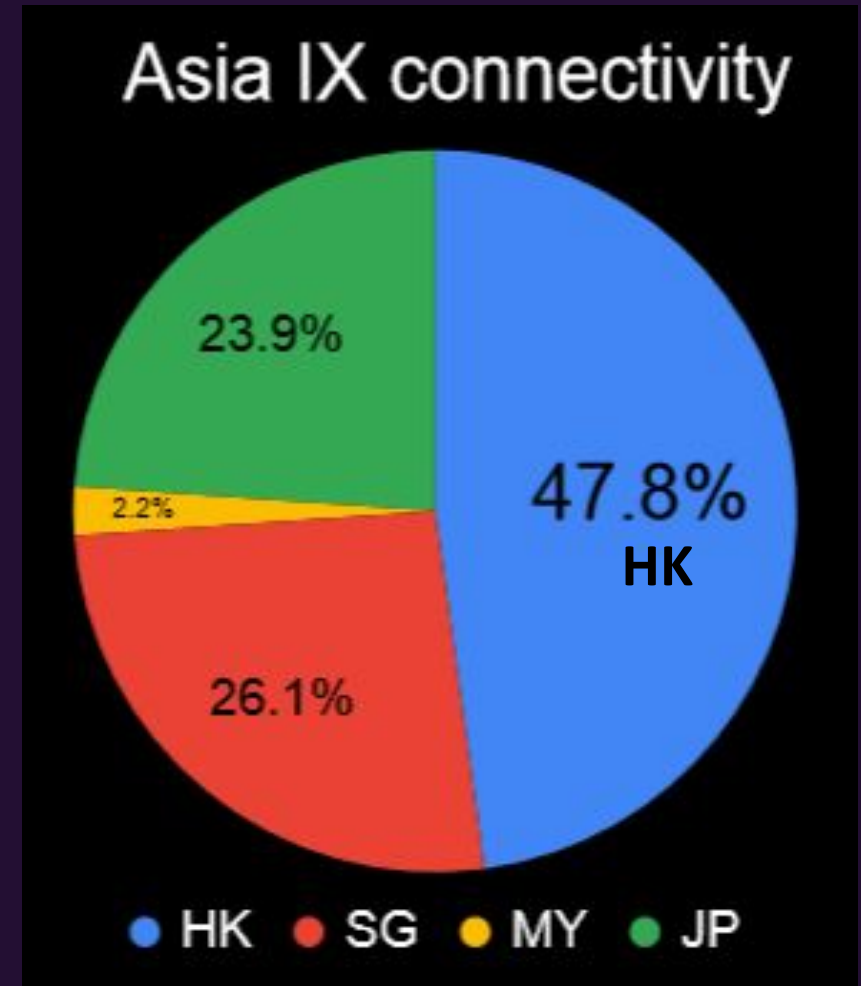
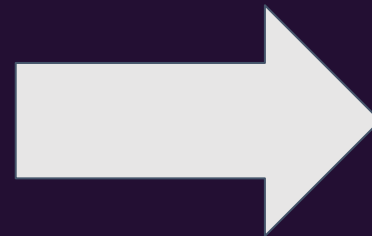
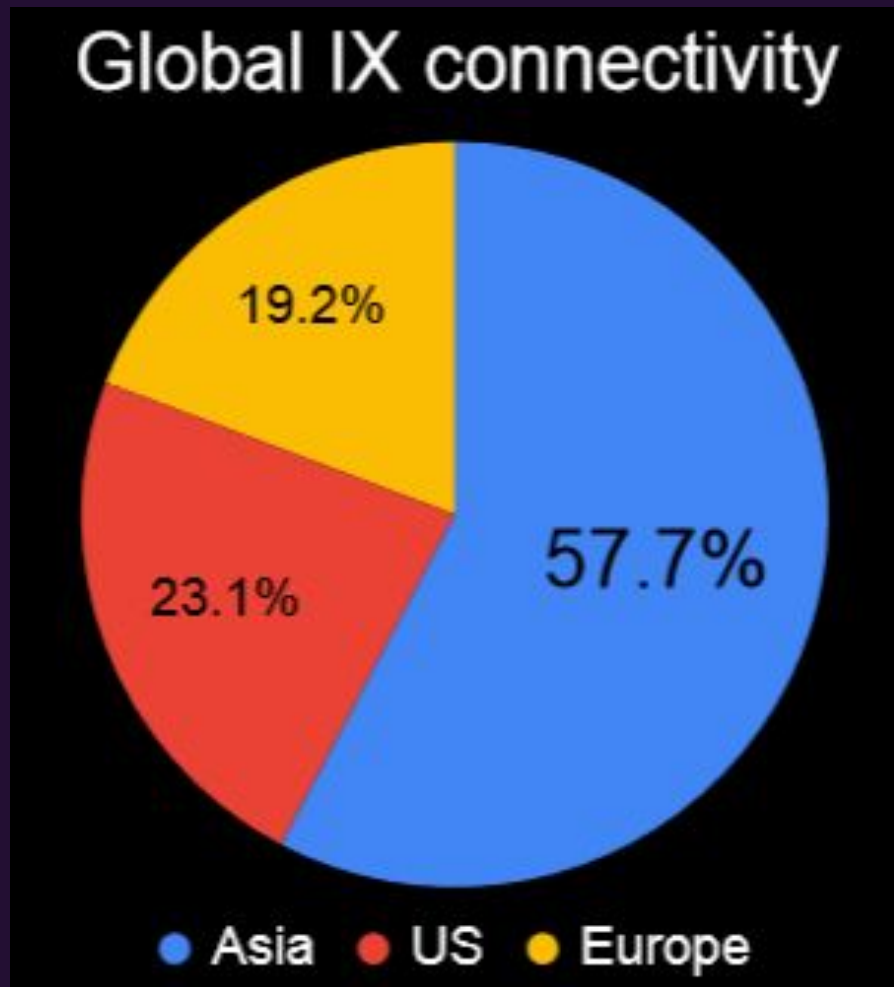
### Mindanao - Davao(2+1)

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

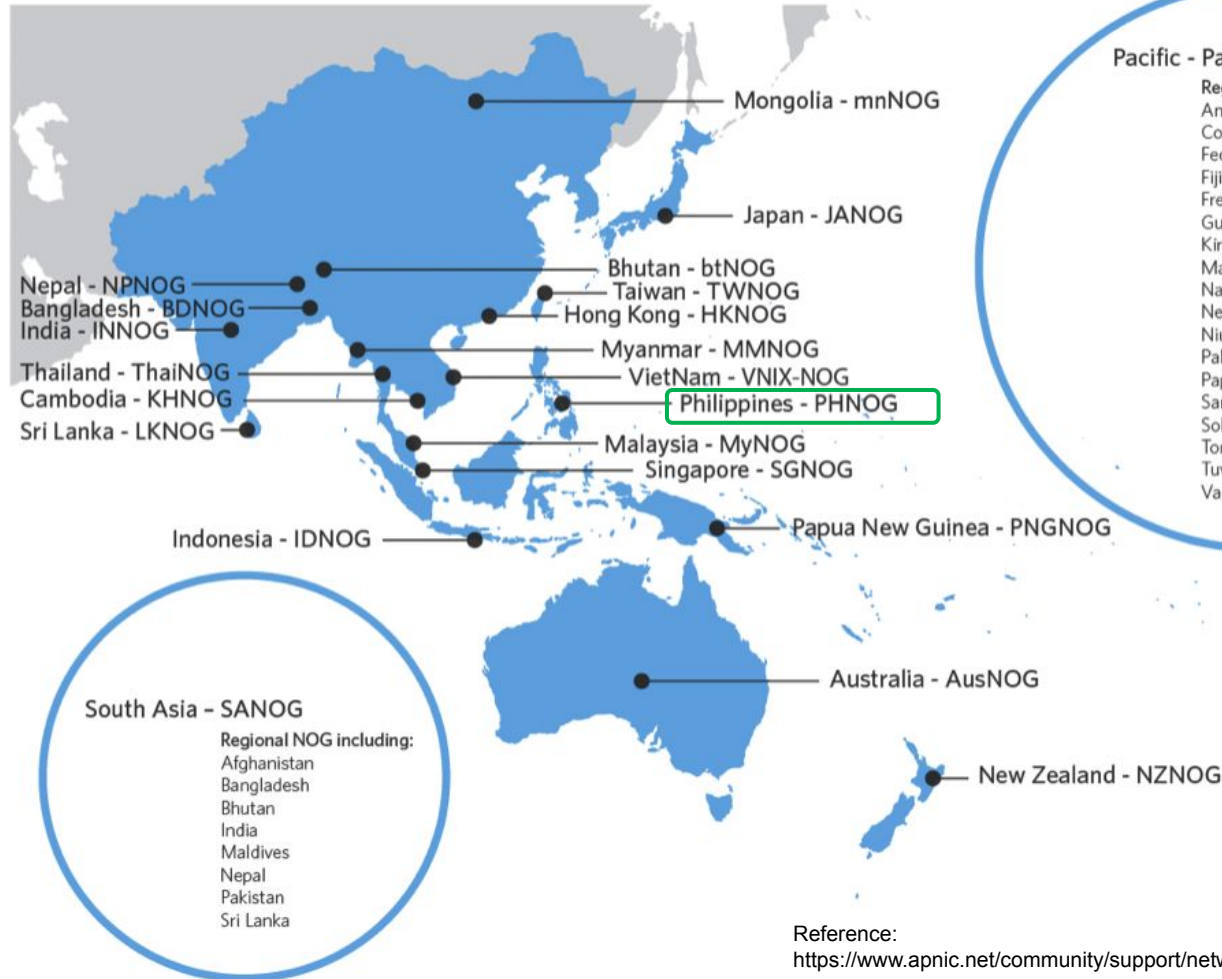
Cable System: **New subsea links (9)**

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 :)*

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WALANG KATAPUSAN . . .

*- No Finish Line -*

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Konsyensya

*Internet of Conscience*

MARAMING SALAMAT!

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AS4775