http://www.phopenix.net/pacnog2015.pdf

APAN 41 Manila

January 25-29, 2016

Marriott Hotel Manila

No. 10 Newport Boulevard, Newport City Complex, Pasay City, Metro Manila

http://www.apan.net/meetings/Manila2016/

Philippine Open Internet eXchange Updates

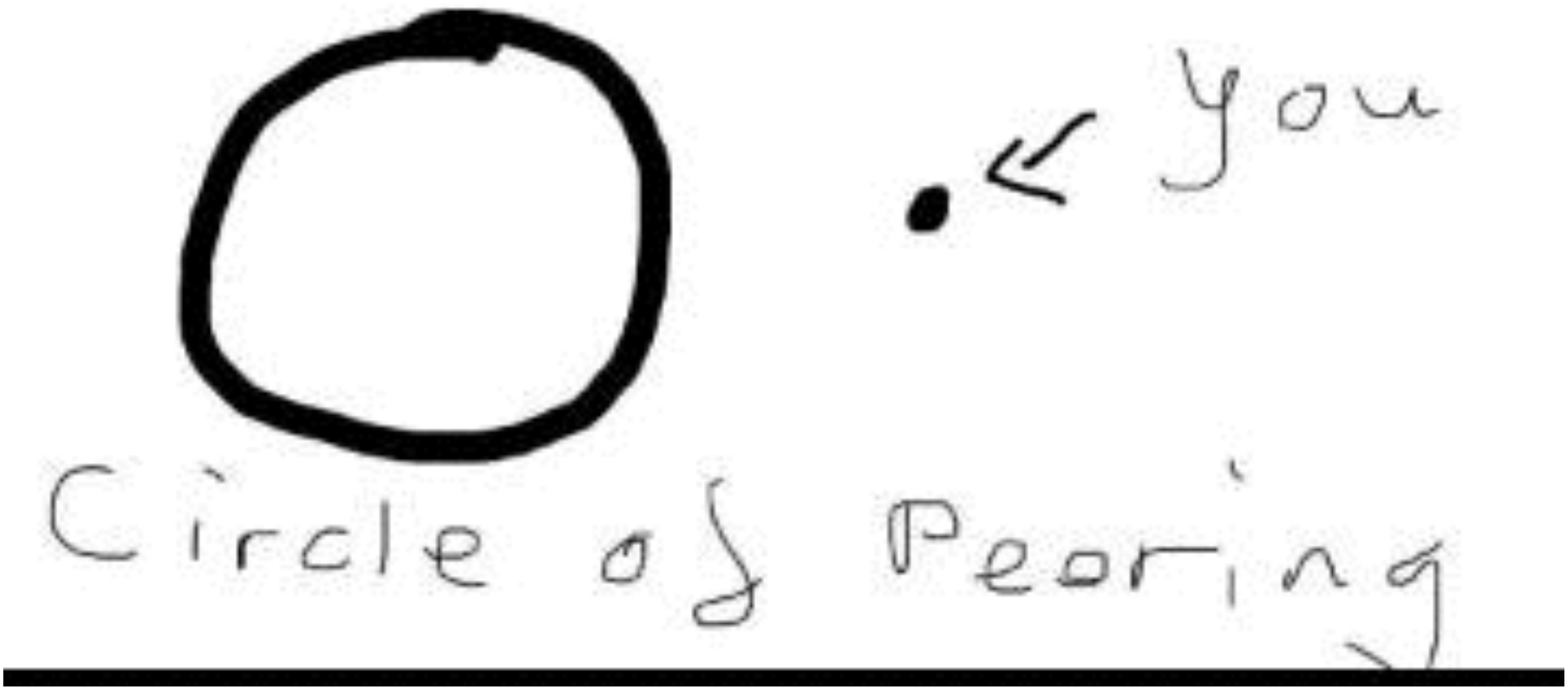
November 30, 2015
Hyatt Hotel
PacNOG, Guam, USA

Bani Lara
Advanced Science and Technology Institute
Department of Science and Technology

Outline

- Benefits of peering
- How we started our IX
- How to promote the IX yourself
- How to get a big brother to help promote

Benefit of peering



http://www.peeringforum.com

Benefits of peering

- Lower latency (delay) of traffic exchange to other peers
- Encourages CDNs to put servers near the peering fabric, if there is enough peers
- Good location to do as many bilateral peering sessions as possible at a fraction of a cost

Benefits of peering

- It can “possibly” lower your transit (internet port) traffic, which is usually more expensive

- Its a good place to form a community :-D

broadbandnow.com/Guam/Tamuning

guam isp

TAMUNING, GU BROADBAND STATS

Guam is the 0 most connected state in the U.S.

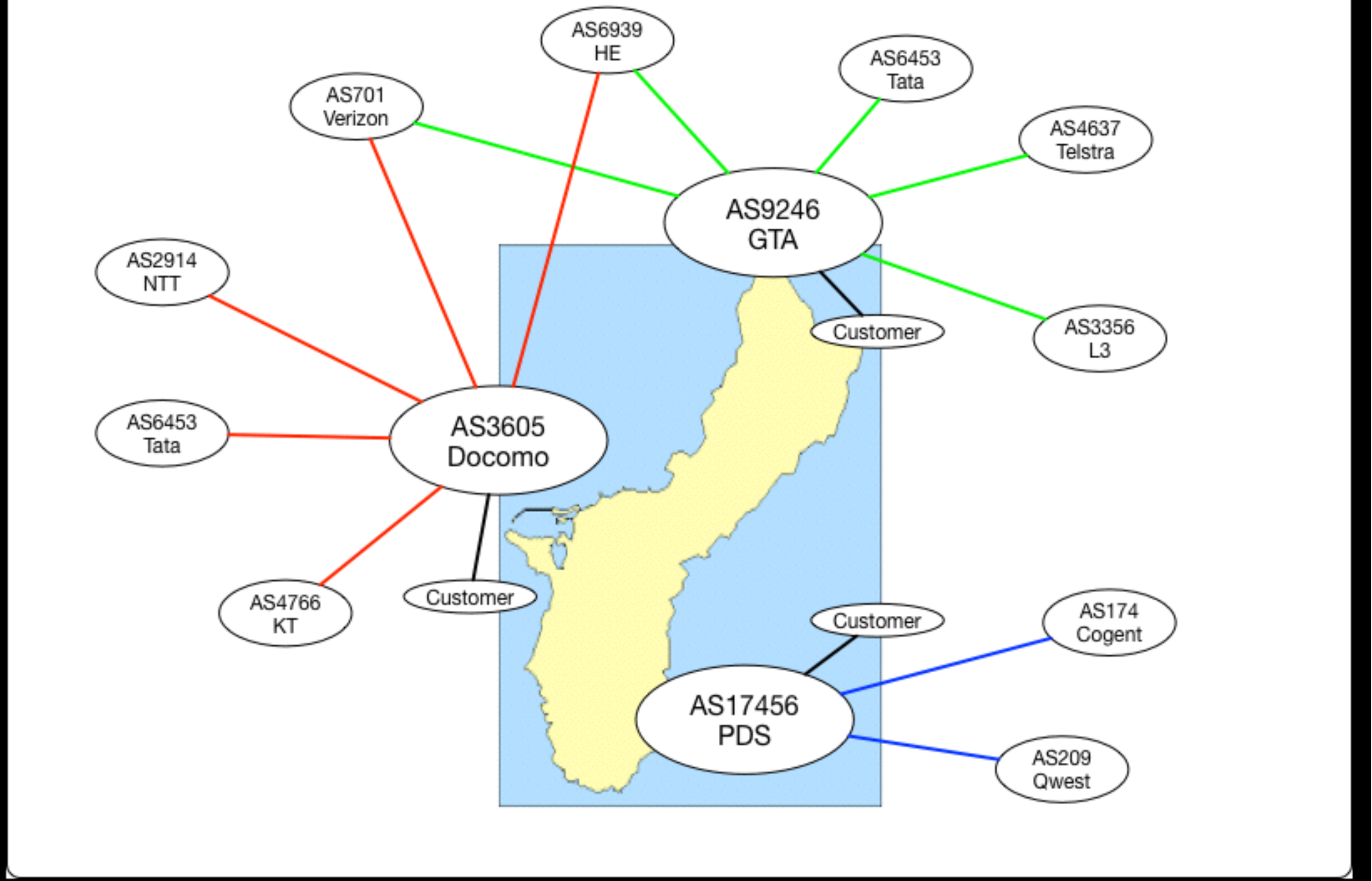
Approximately 2,000 people in Guam County don't have access to any wired internet.

Only 0.0% of Guamanians have access to 100mbps or faster broadband.

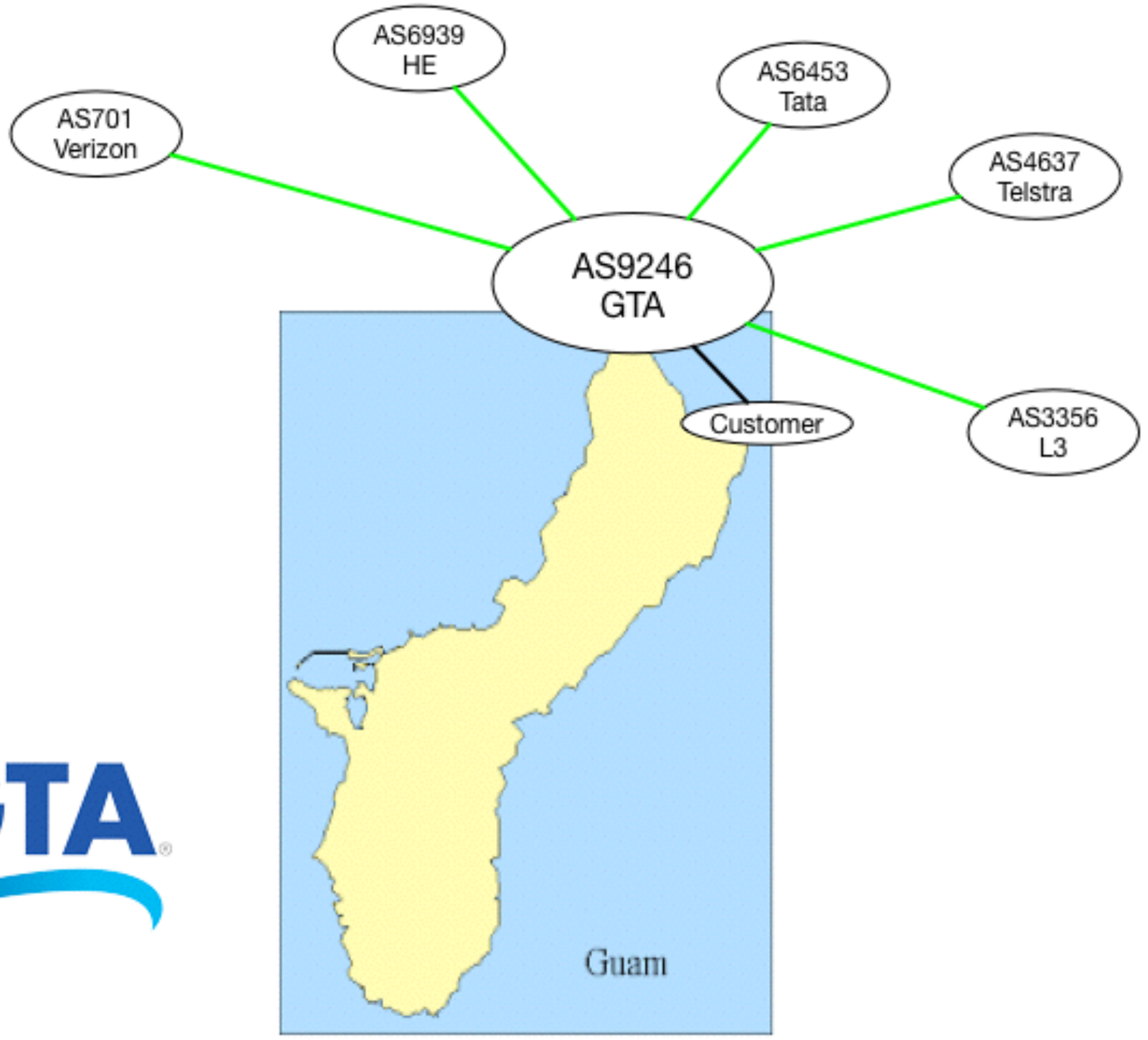
In Guam County, approximately 134,000

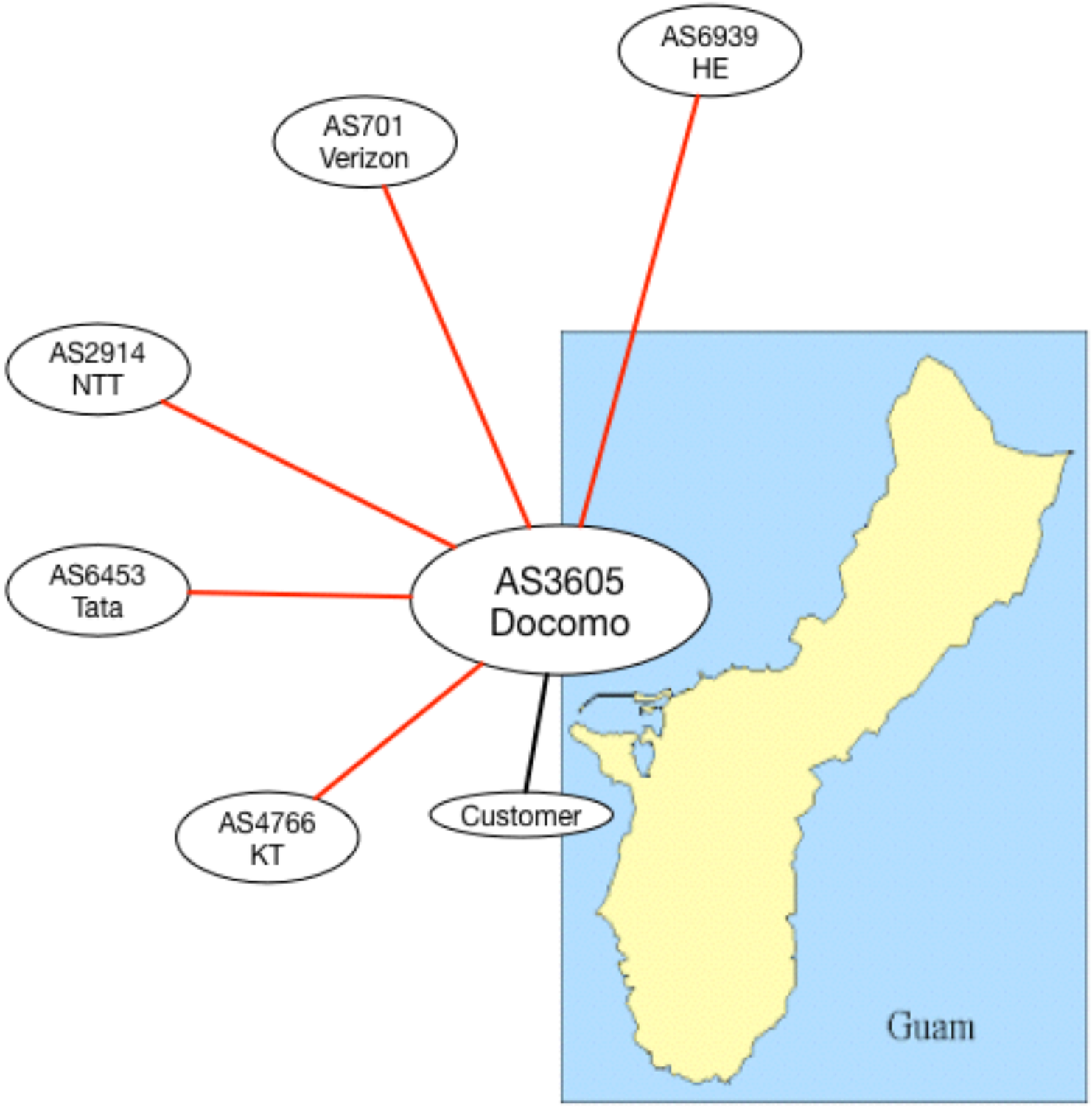
ADDITIONAL INTERNET SERVICE PROVIDERS

Provider	Availability	Rating	Speed	Pricing
GTA DSL		?		$75.00 for 15mbps
NTT docomo CABLE		?		--
PDS Pacific Data Systems DSL		?		--



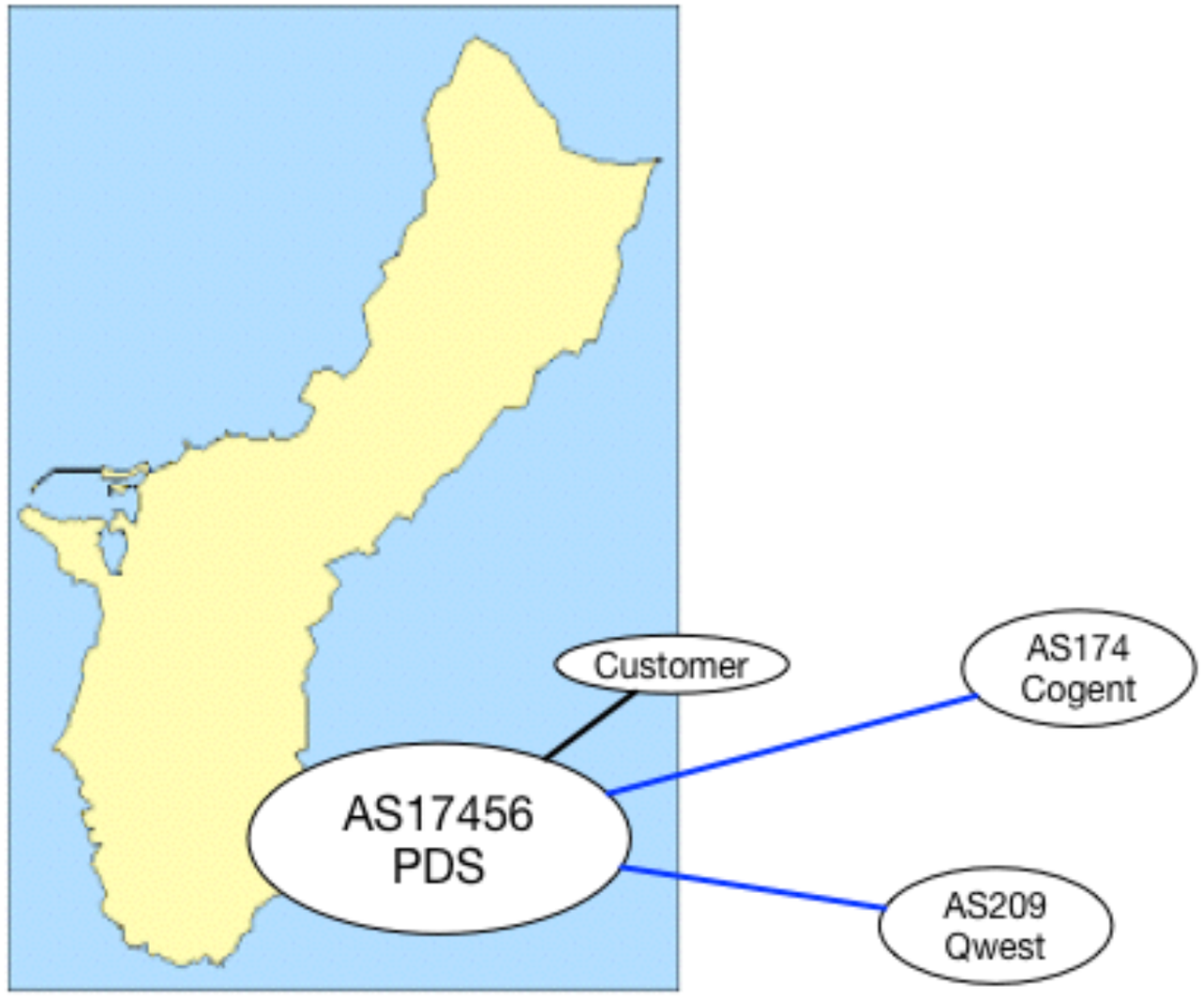
Based on http://bgp.he.net data

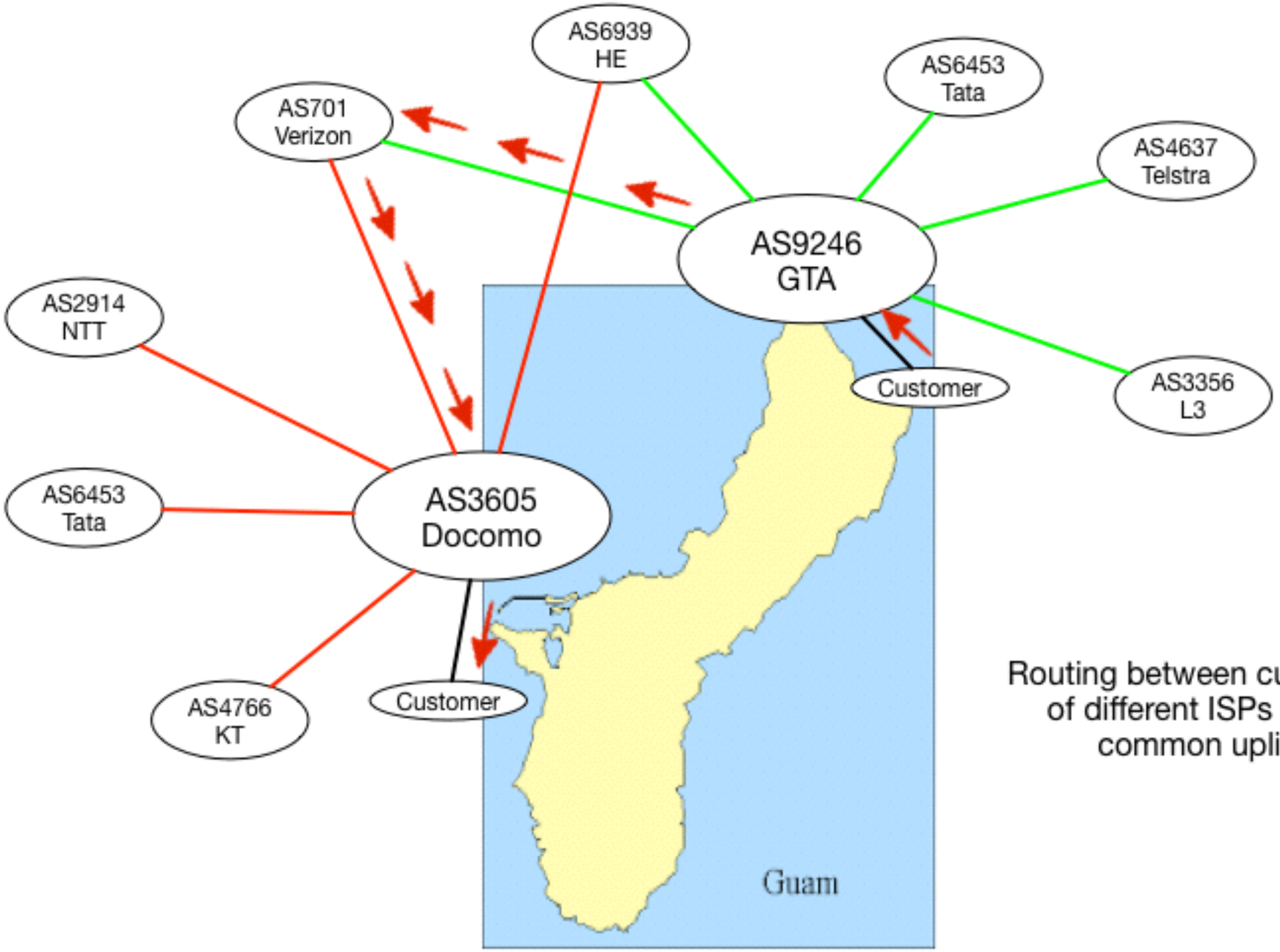

AS6939
HE
AS6453
Tata
AS701
Verizon
AS4637
Telstra
AS9246
GTA
Customer
AS3356
L3
Guam


AS6939
HE
AS701
Verizon
AS2914
NTT
AS6453
Tata
AS3605
Docomo
AS4766
KT
Customer
Guam

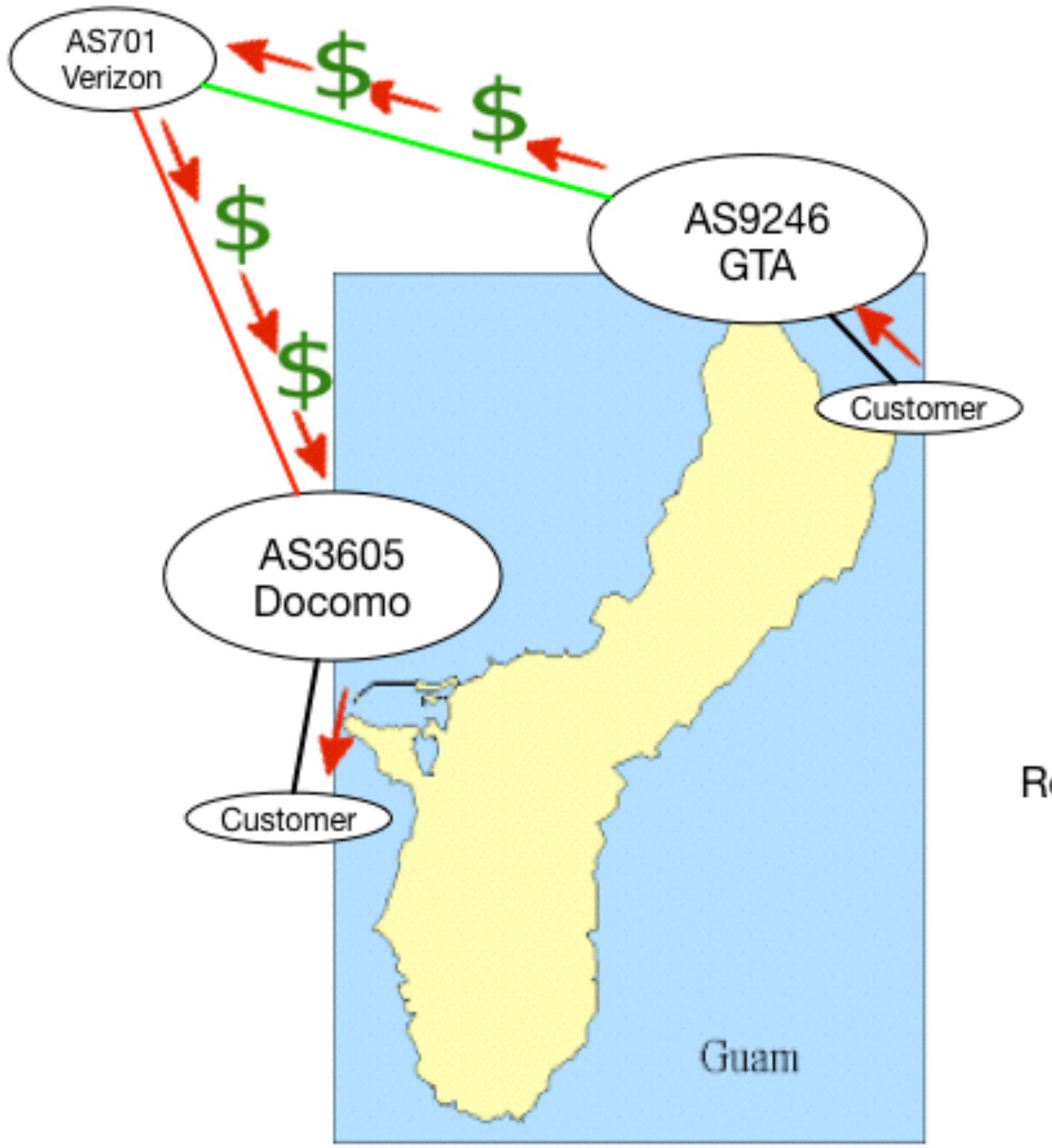
NTT docomo

Pacific Data Systems

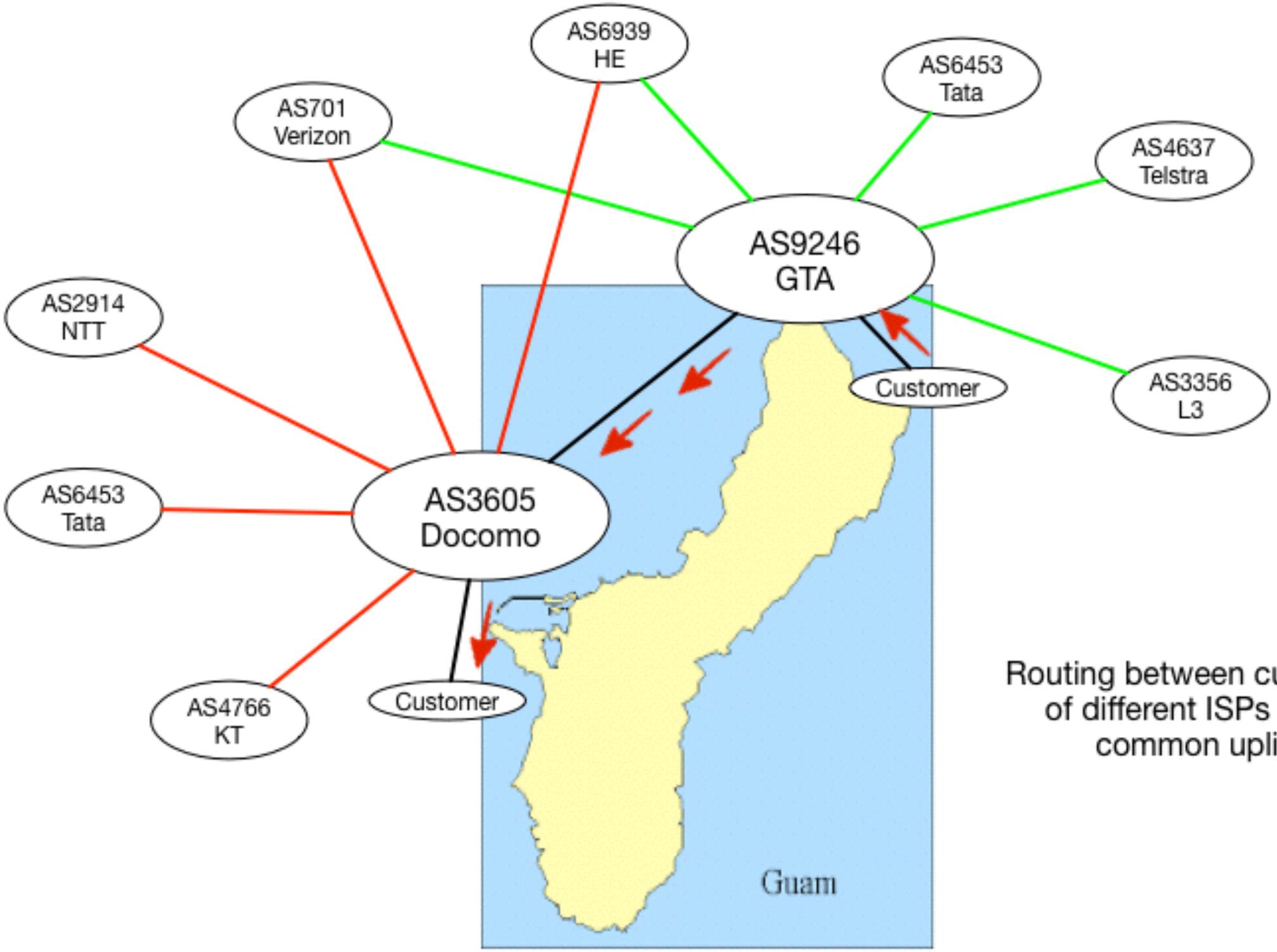




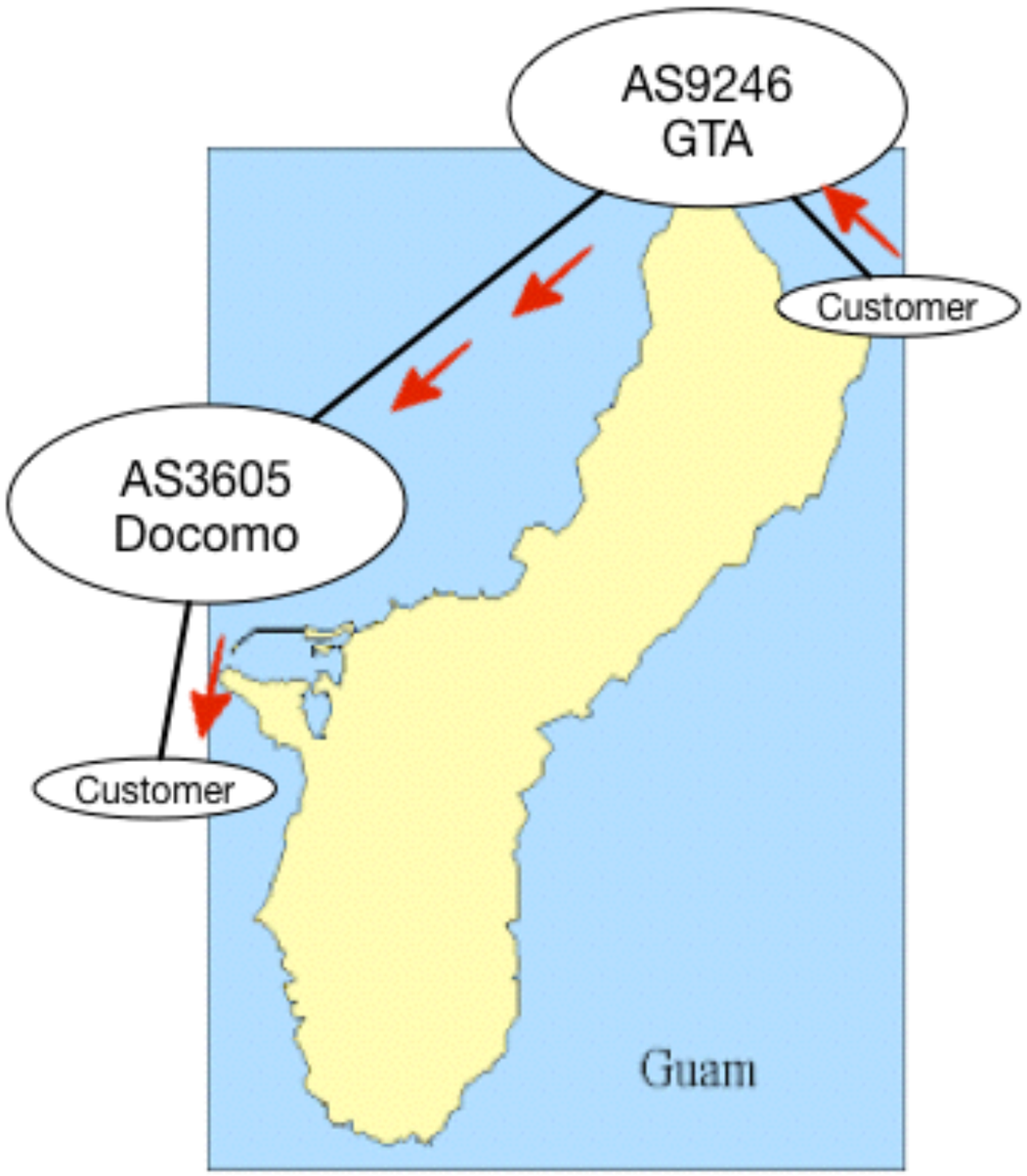
Routing between customers of different ISPs with a common uplink



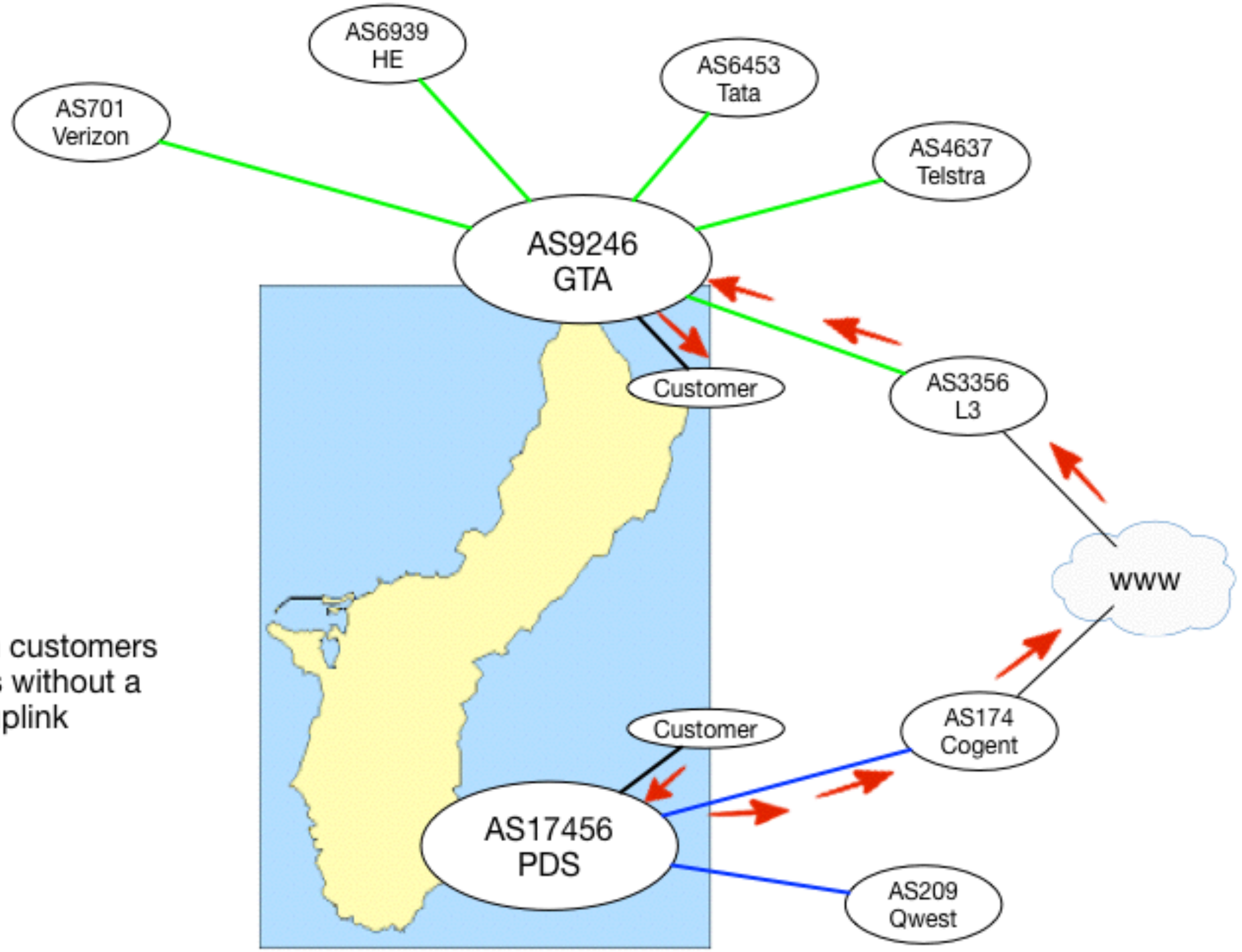
Routing between customers of different ISPs with a common uplink



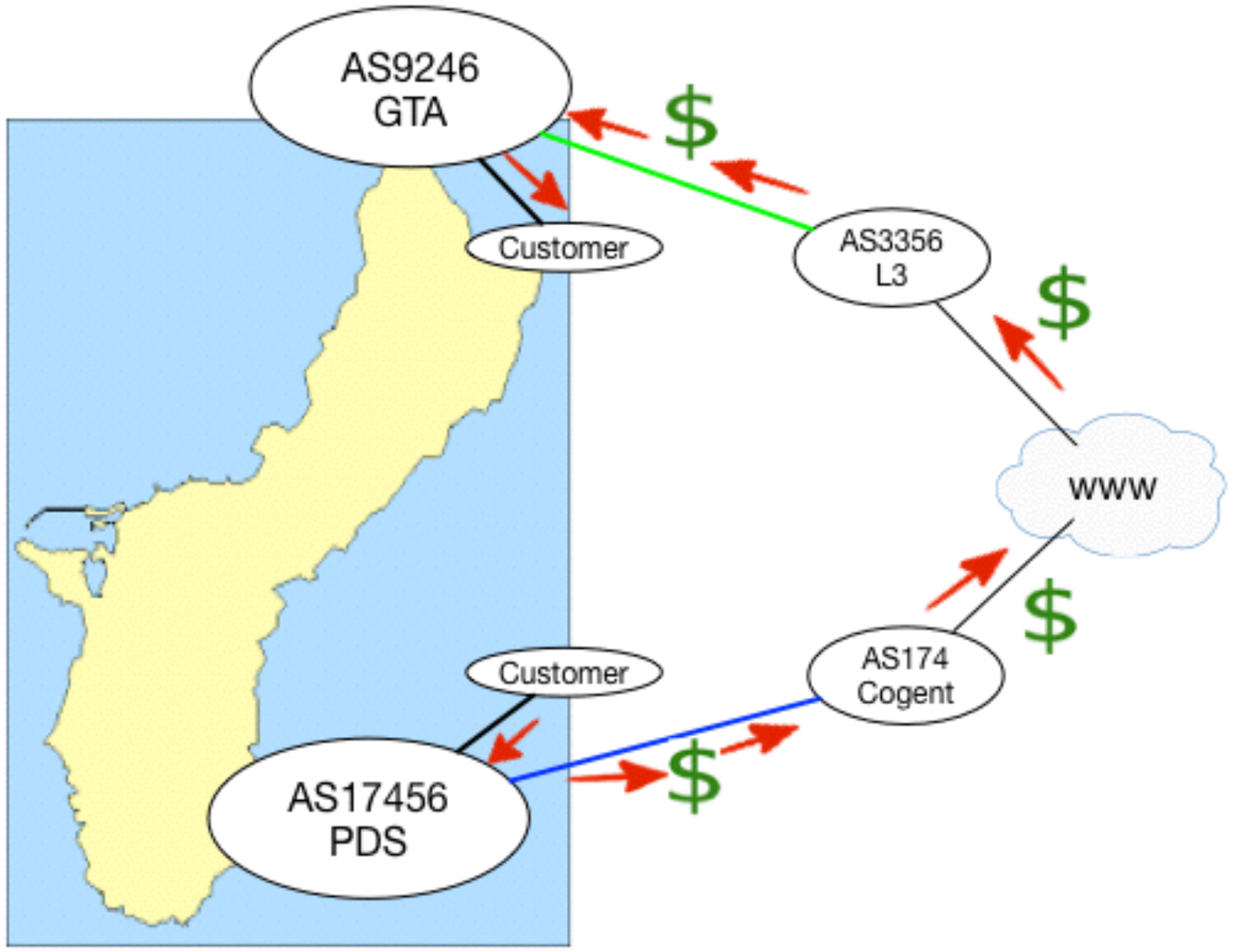
Routing between customers of different ISPs with a common uplink


AS9246
GTA
Customer
AS3605
Docomo
Customer
Guam

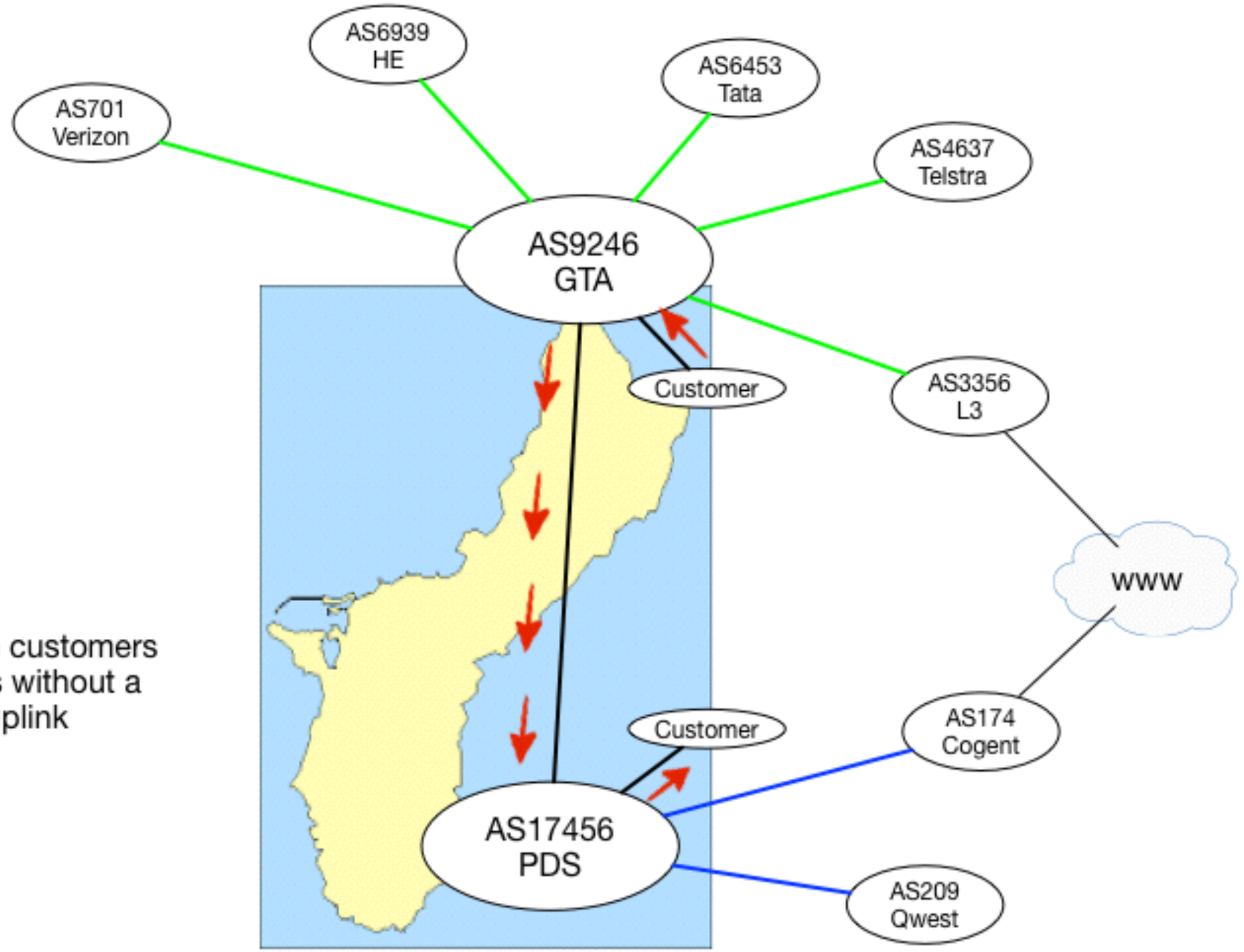
Routing between customers of different ISPs without a common uplink

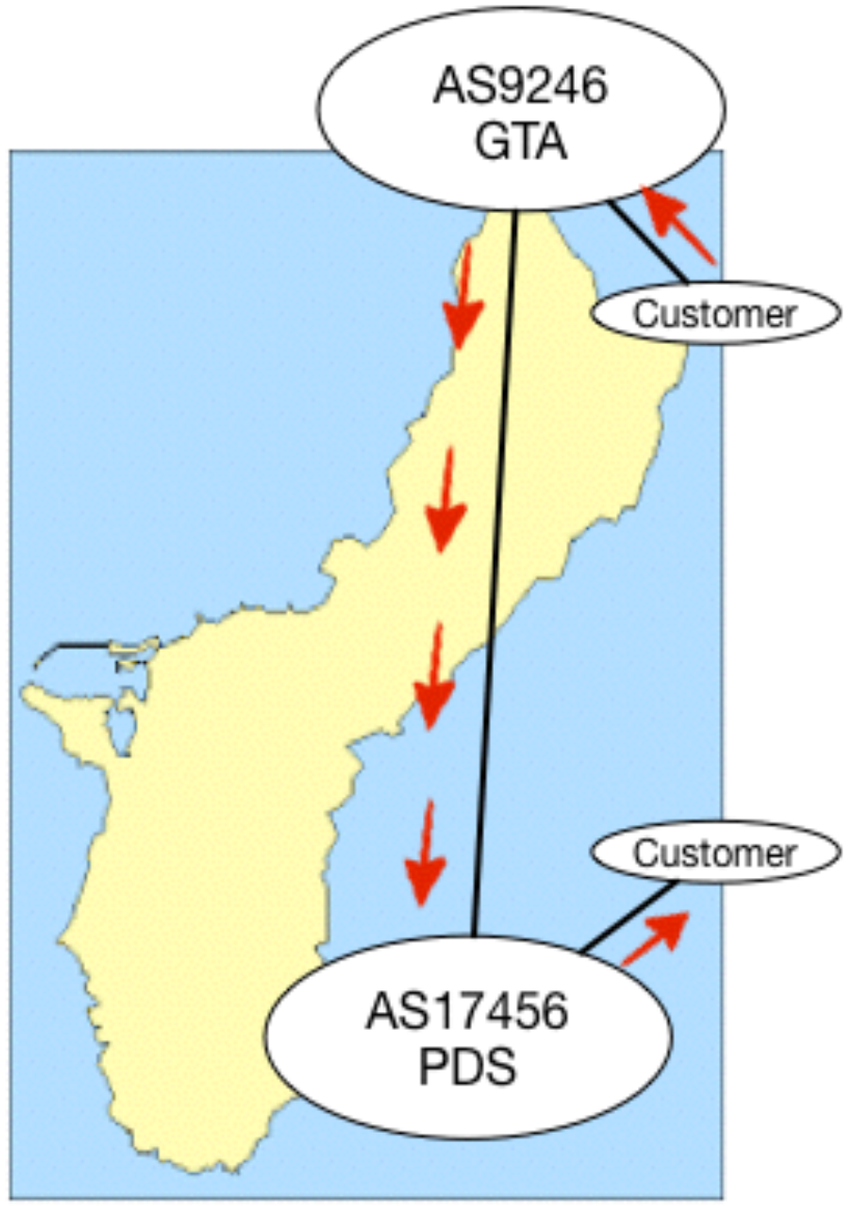


Routing between customers of different ISPs without a common uplink

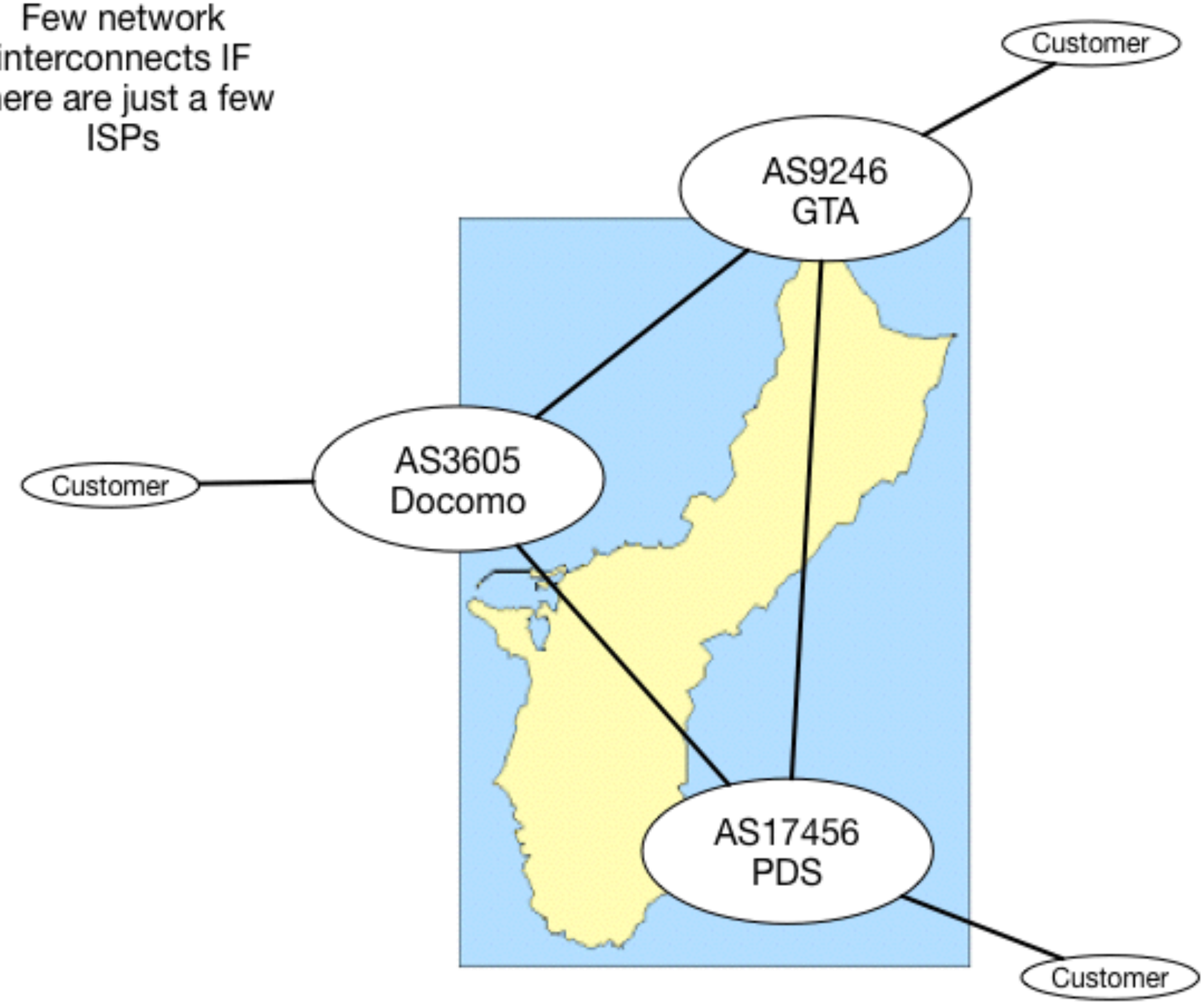


Routing between customers of different ISPs without a common uplink

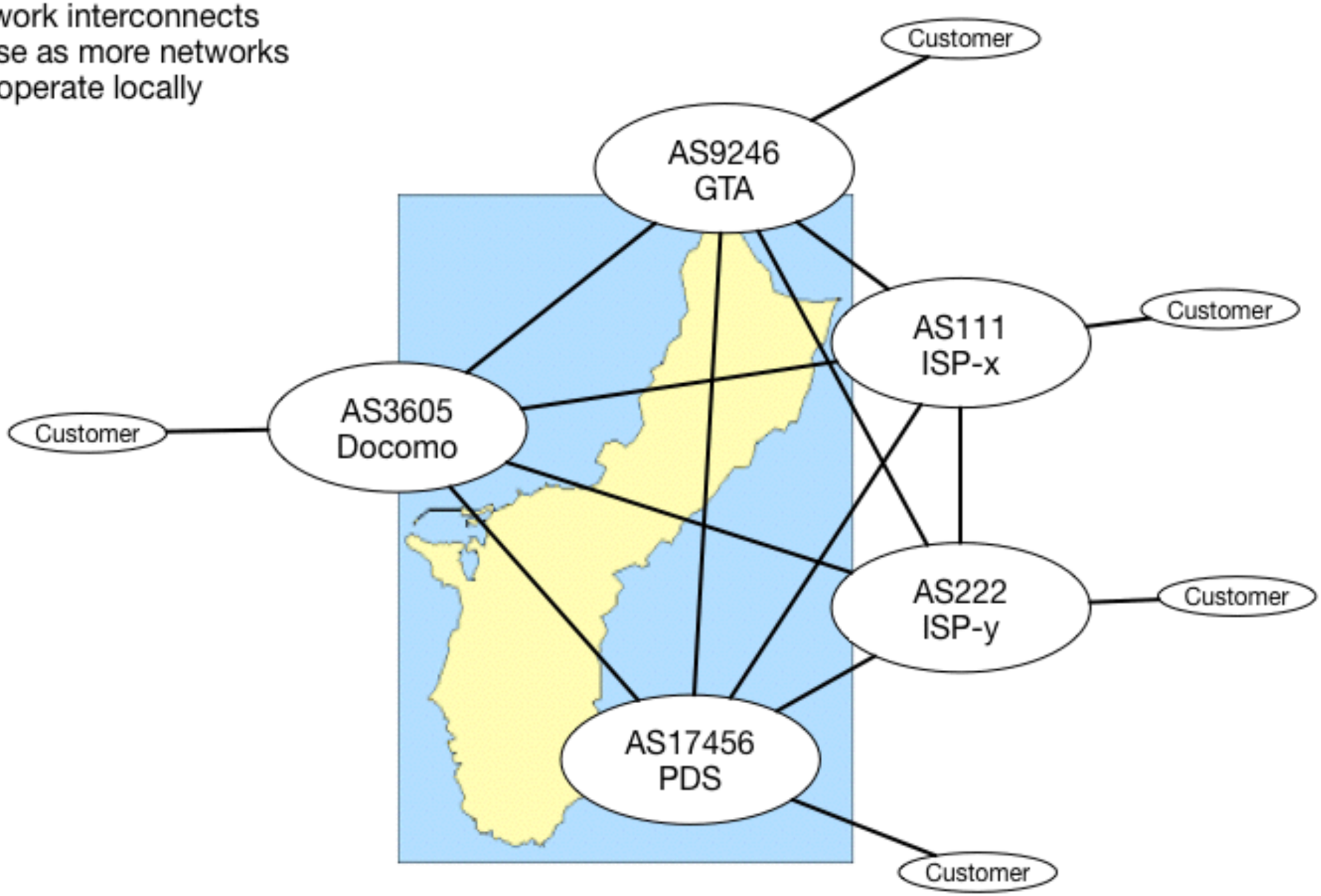



AS9246
GTA
Customer
Customer
AS17456
PDS

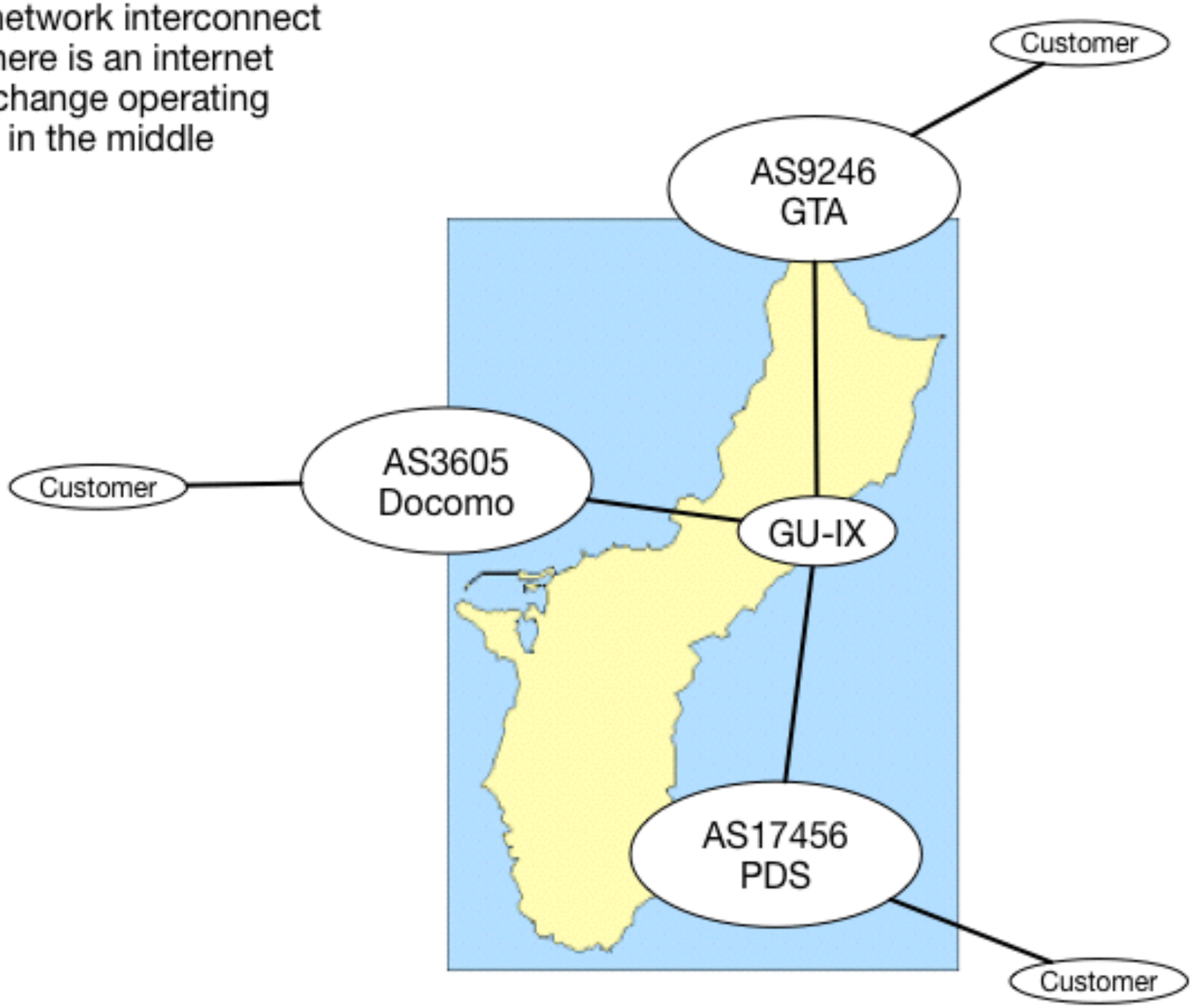
Few network interconnects IF there are just a few ISPs

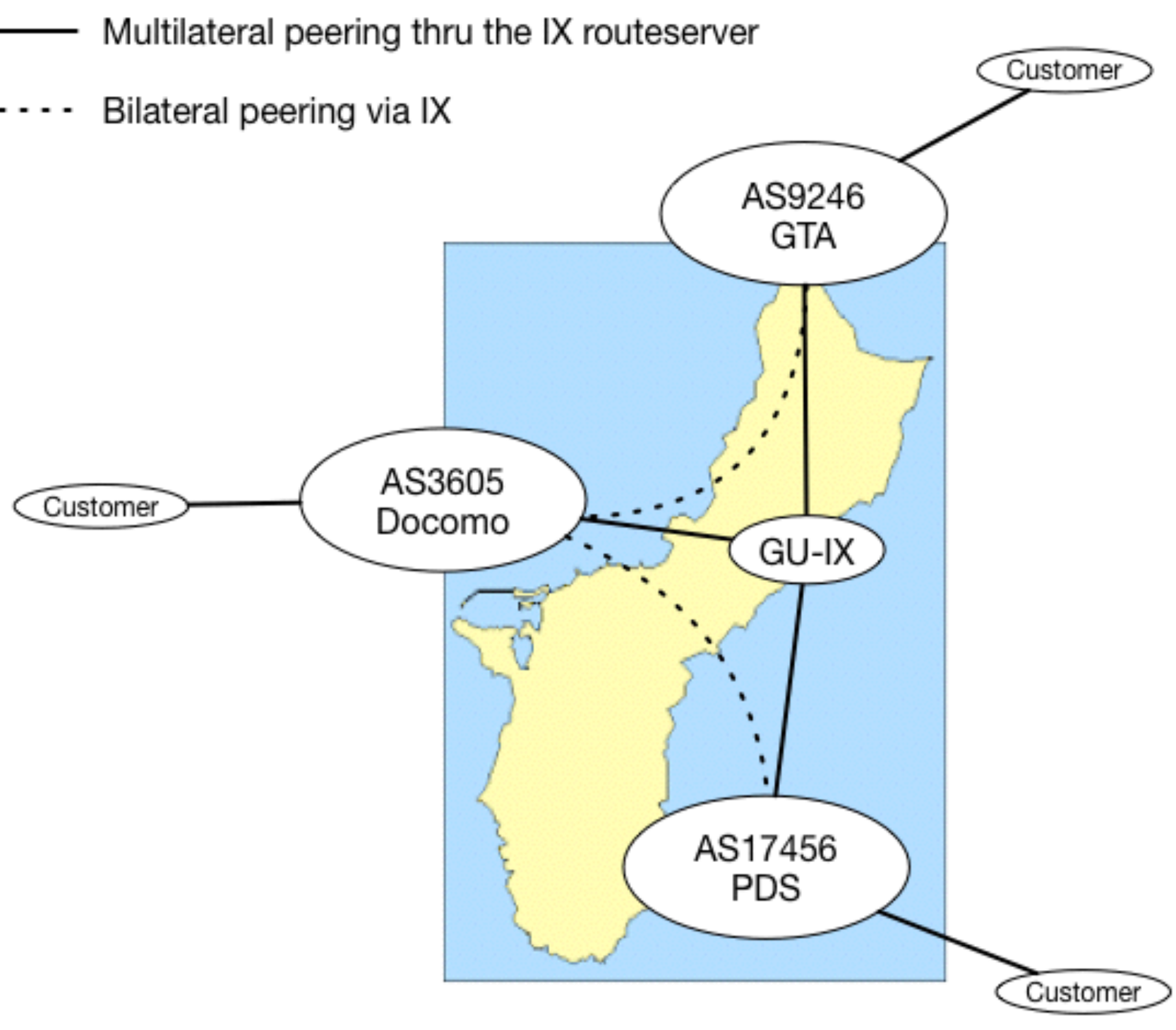


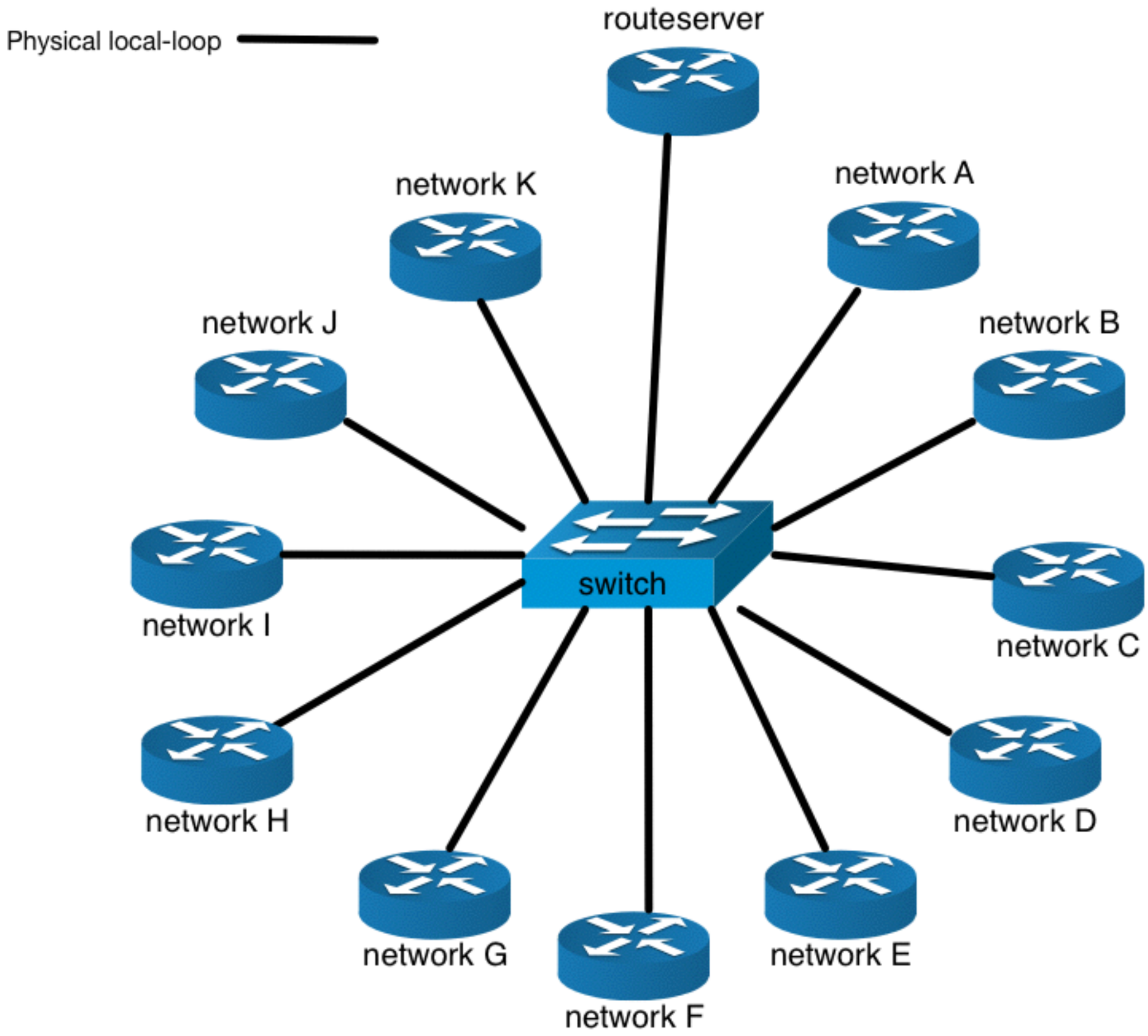
Network interconnects increase as more networks operate locally



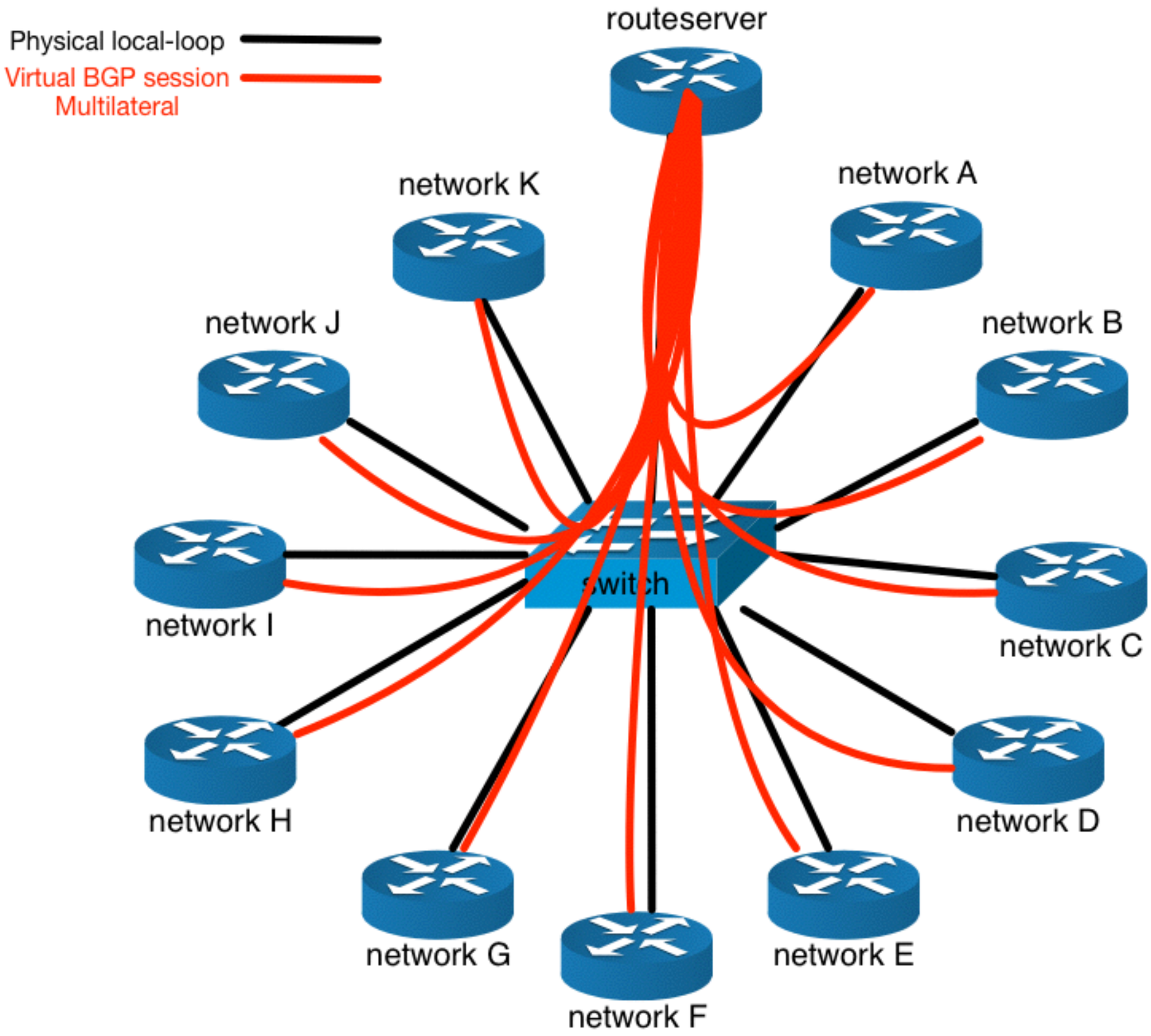
Less network interconnect if there is an internet exchange operating in the middle



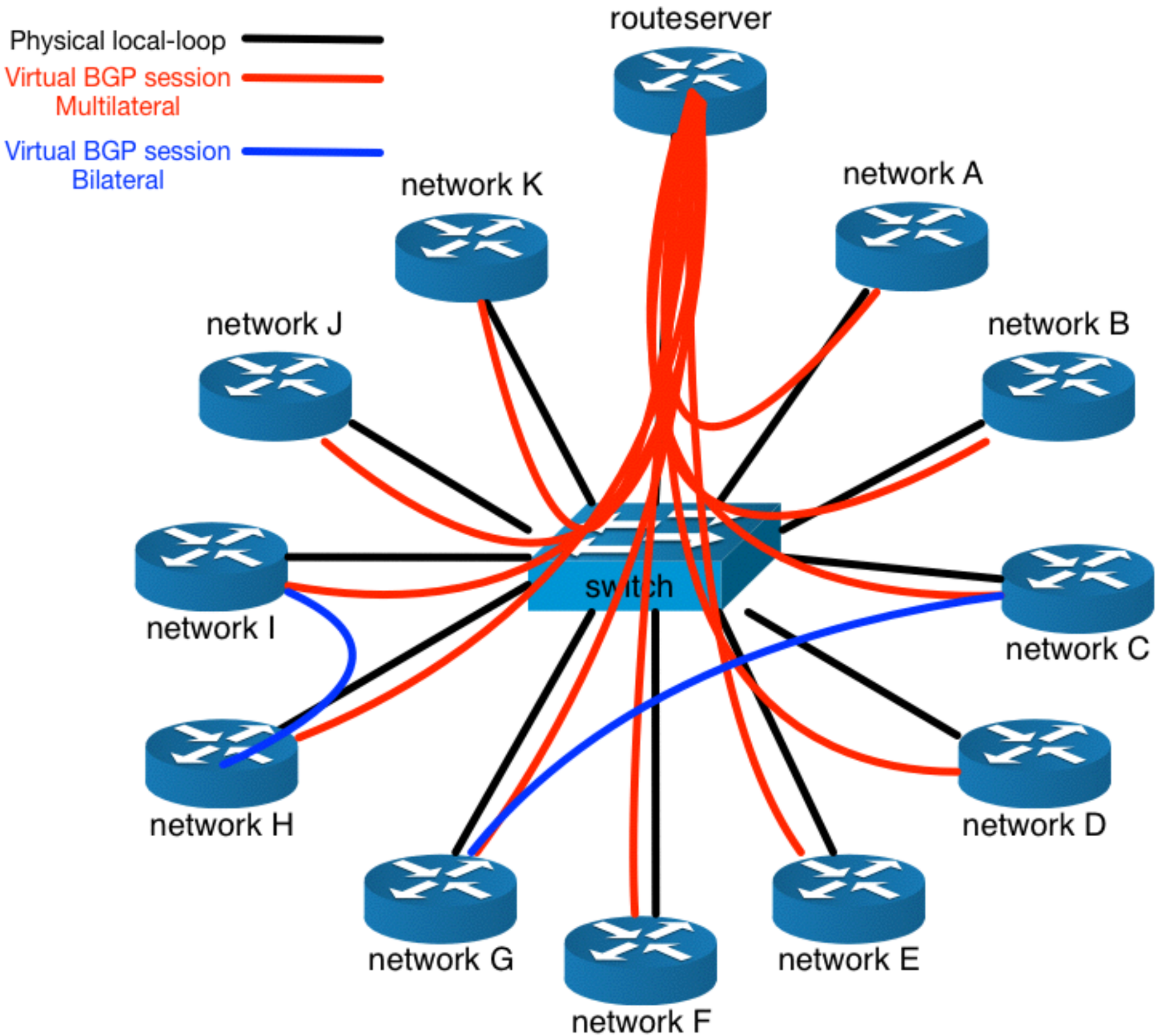

Multilateral peering thru the IX routeserver
Bilateral peering via IX
Customer
AS9246
GTA
AS3605
Docomo
Customer
GU-IX
AS17456
PDS
Customer



Internet Exchange



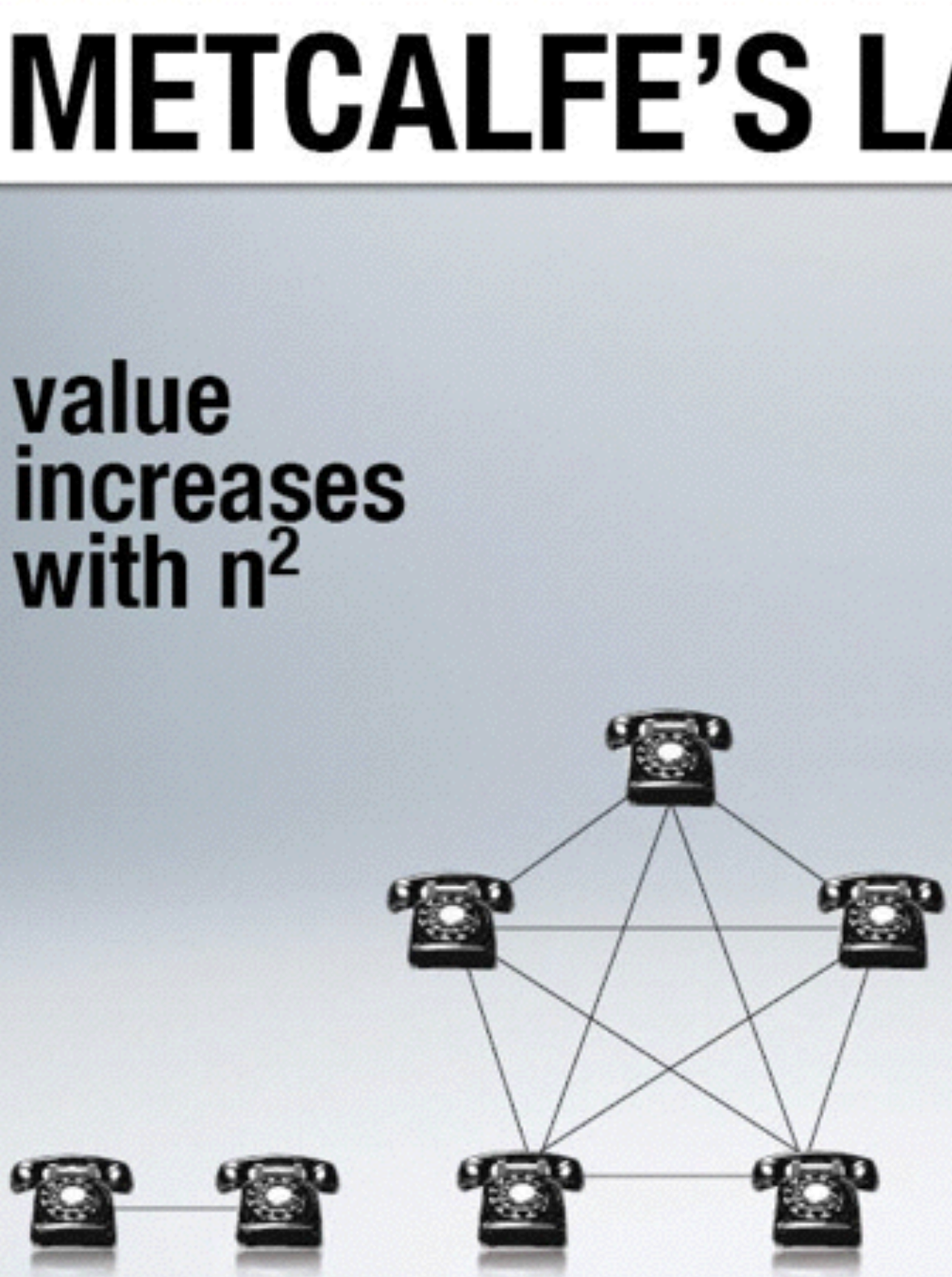
Multilateral peering thru a route server

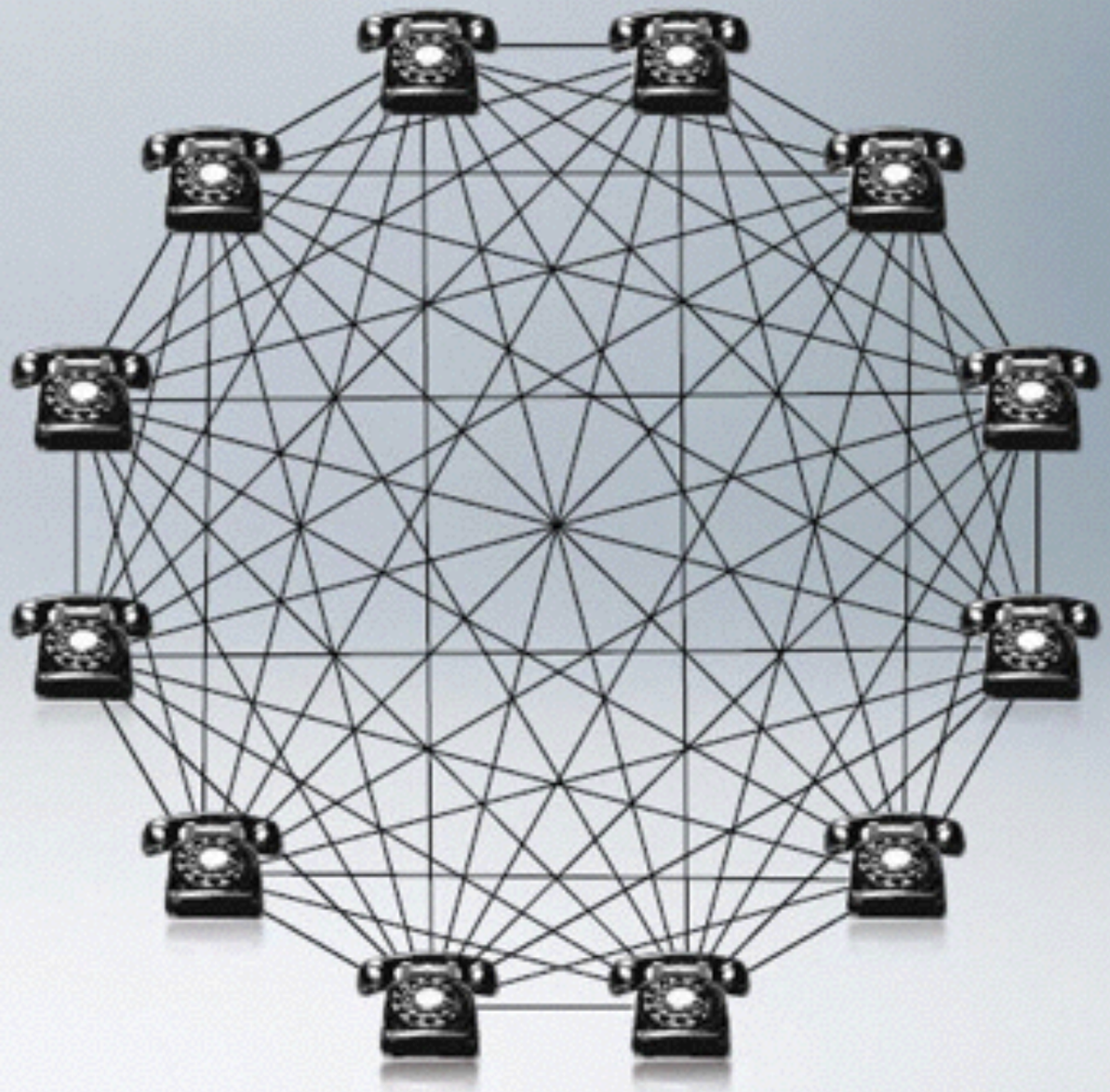


Bilateral peering thru direct negotiations

METCALFE'S LAW

value increases with n^2





www.gu-ix.net/members.html

guam internet exchang

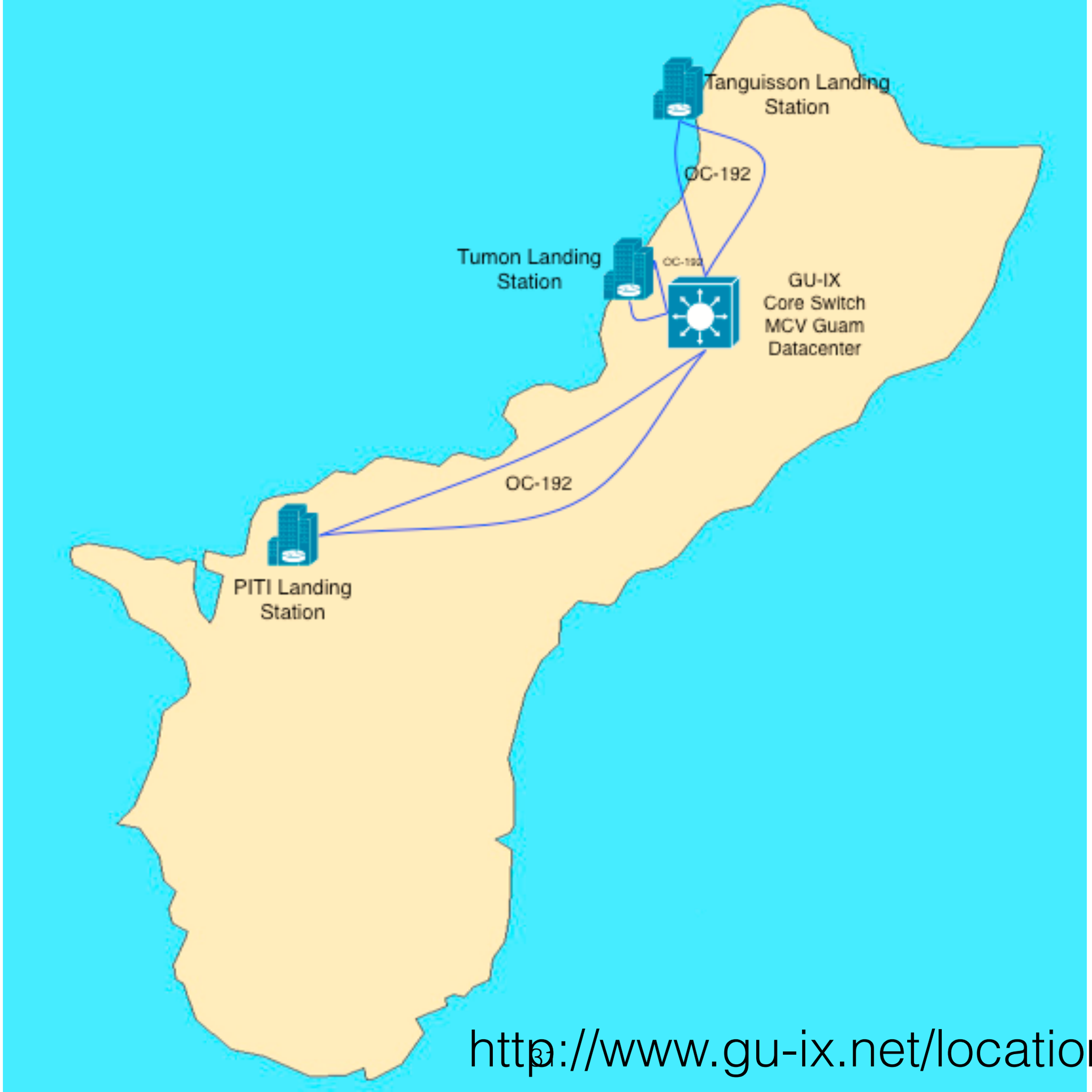
:: Welcome to Guam Internet Exchange (GU-IX) Website ::

Main ::: About Us ::: Technical ::: Members ::: Locations ::: Contact

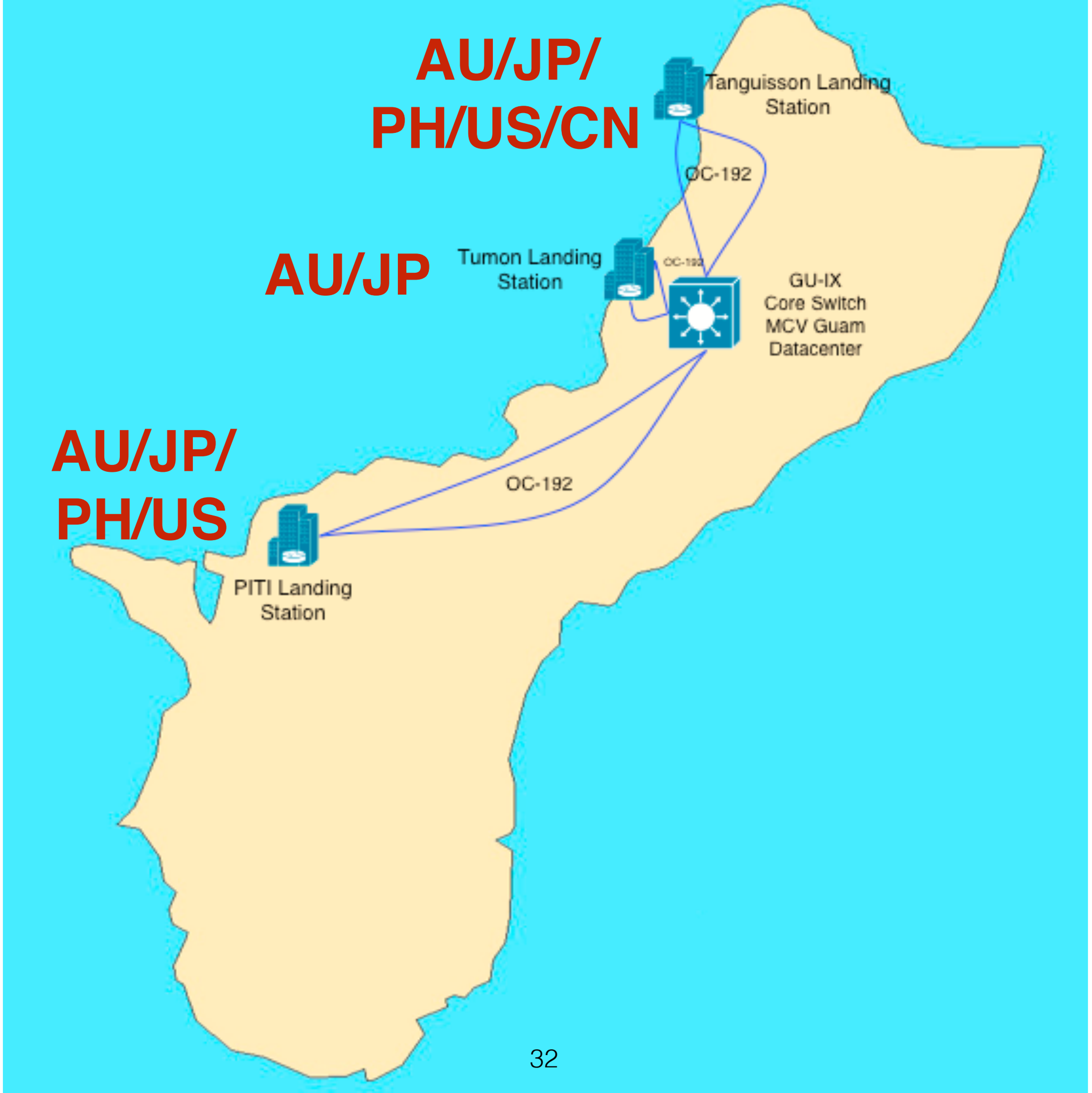
::: Members

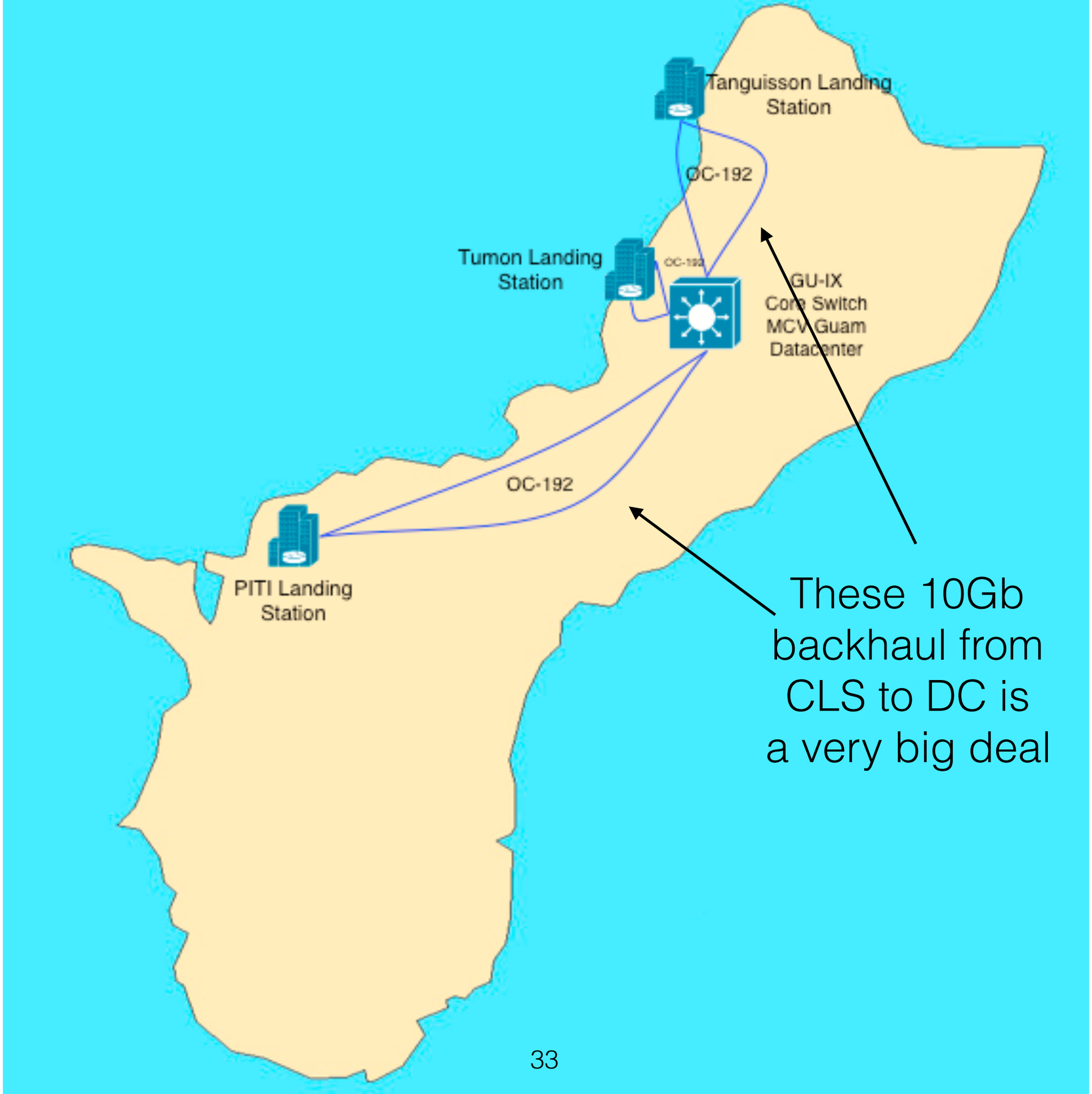
Company Name (or DBA)	ASN
Guam Cablevision / Kuentos Communications	AS3605
FSM Telecom	AS10130
ICANN / L.ROOT-SERVERS.NET	AS20144

Copyright 2010 Guam Internet Exchange



http://www.gu-ix.net/locations.html


AU/JP/
PH/US/CN
Tanguisson Landing
Station
OC-192
AU/JP
Tumon Landing
Station
OC-192
GU-IX
Core Switch
MCV Guam
Datacenter
AU/JP/
PH/US
OC-192
PITI Landing
Station


Tanguisson Landing Station
OC-192
Tumon Landing Station
OC-192
GU-IX
Core Switch
MCV Guam
Datacenter
OC-192
PITI Landing Station
These 10Gb backhaul from CLS to DC is a very big deal

www.submarinecablemap.com/#/landing-point/piti-guam

Search

Bering Sea

Sea of Okhotsk

Sea of Japan

China

South Korea

Japan

North Pacific Ocean

Piti, Guam

Mongolia

Myanmar (Burma)

Thailand

Vietnam

Gulf of Thailand

Malaysia

Indonesia

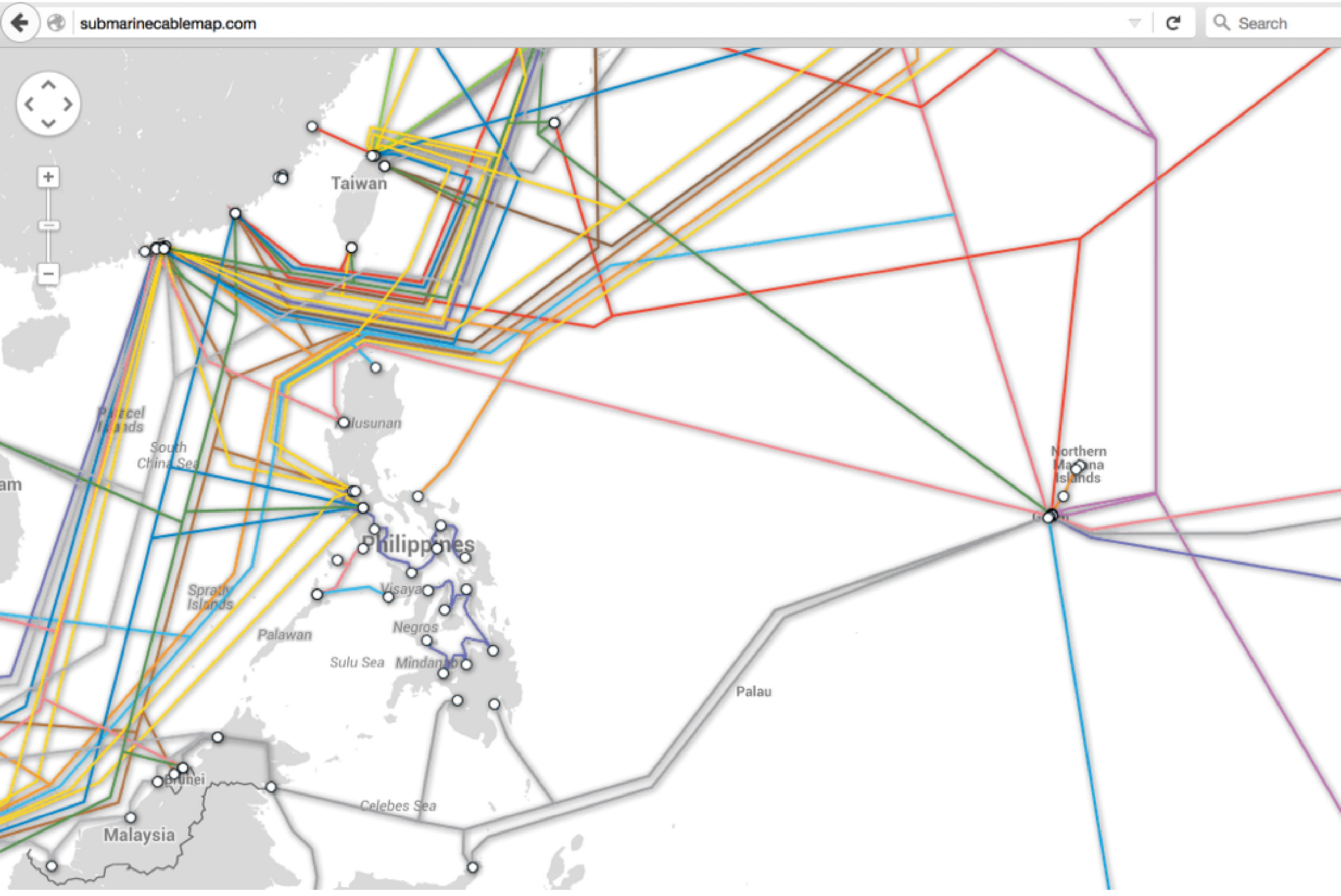
Banda Sea

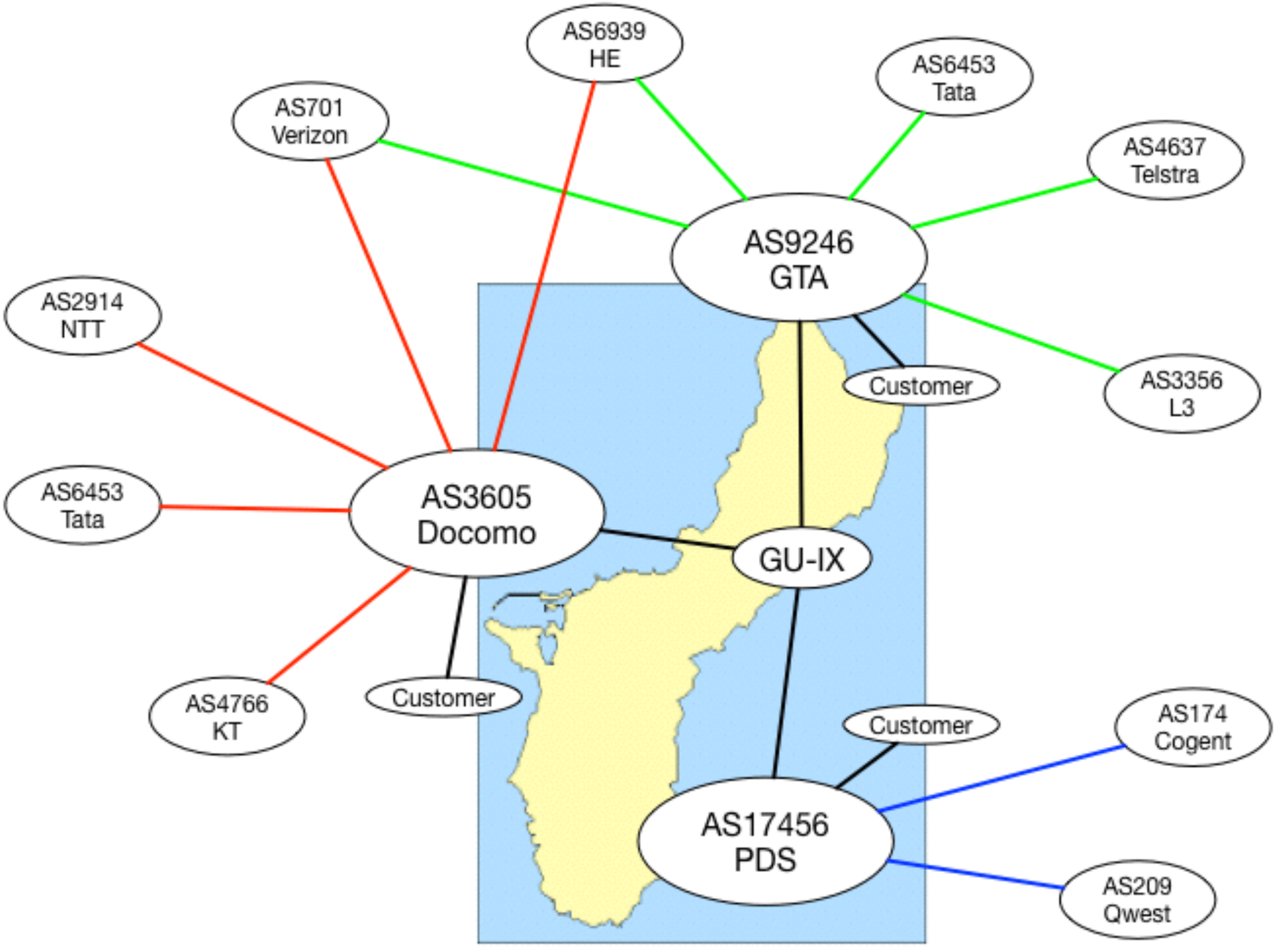
Arafura Sea

Papua New Guinea

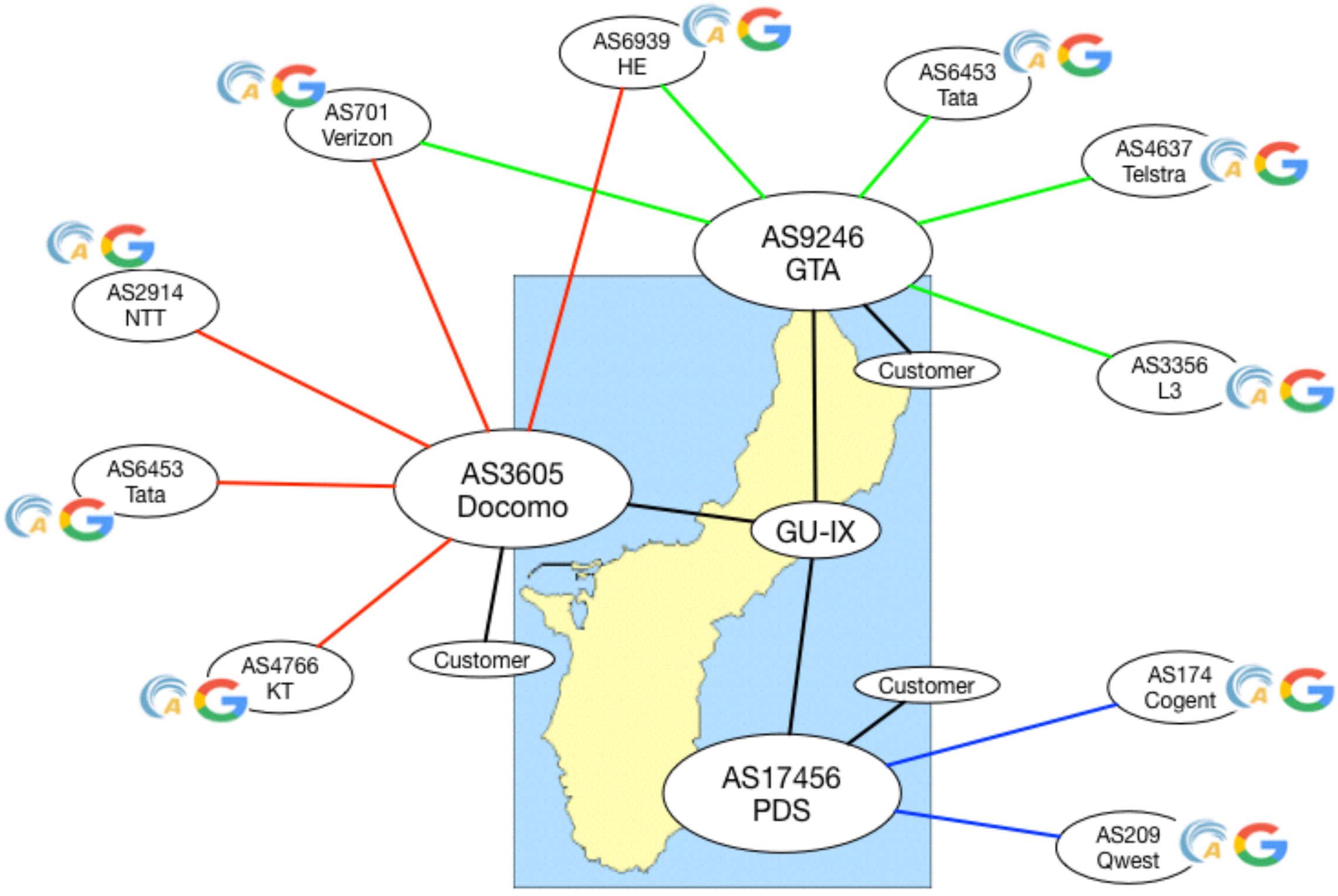
Coral Sea

Australia

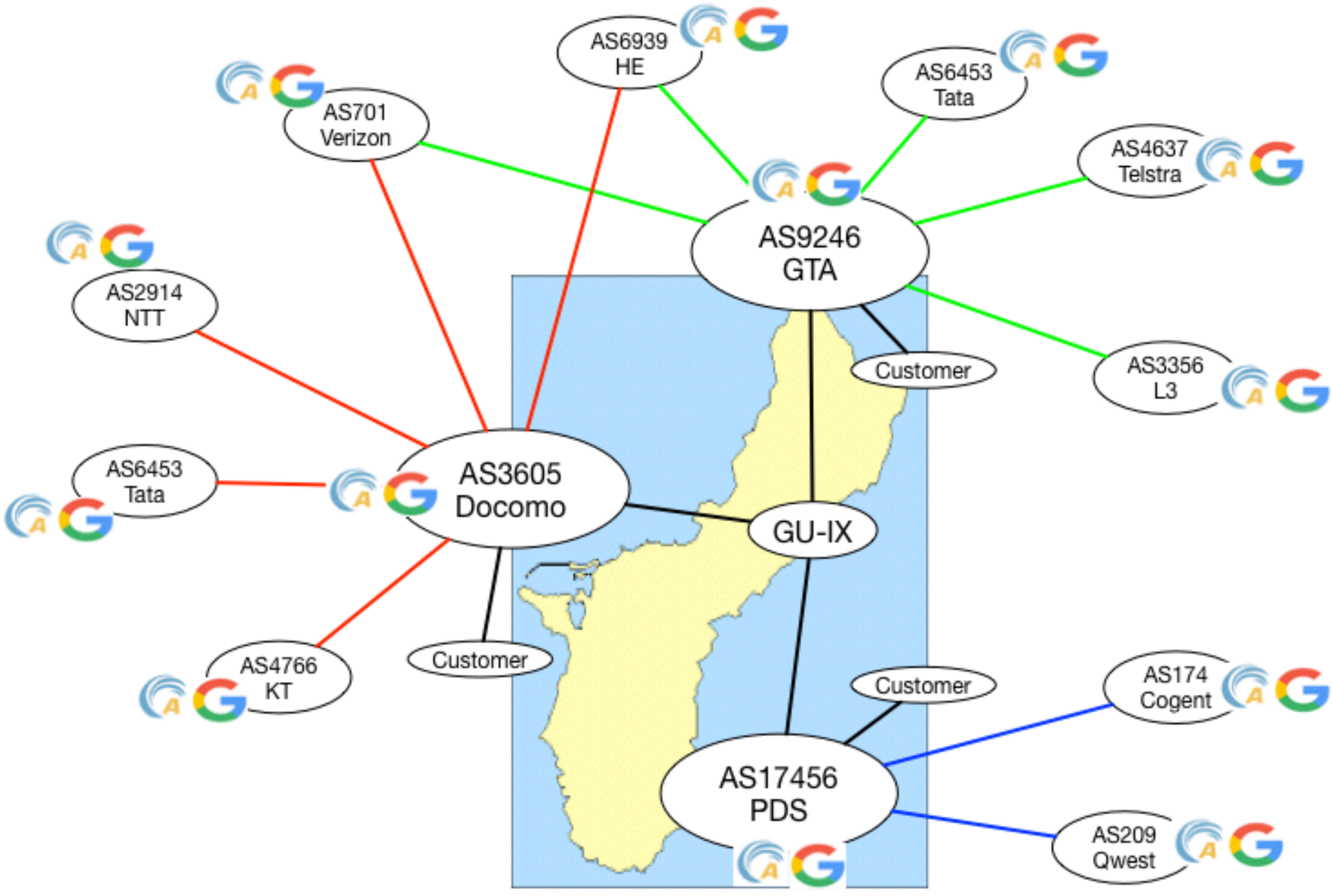

submarinecablemap.com
Search
Taiwan
Philippines
Palau
Malaysia
Brunei
Celebes Sea
Sulu Sea
Palawan
Negros
Visaya
Mindanao
Sprat
Islands
South
China Sea
Northern
Islands



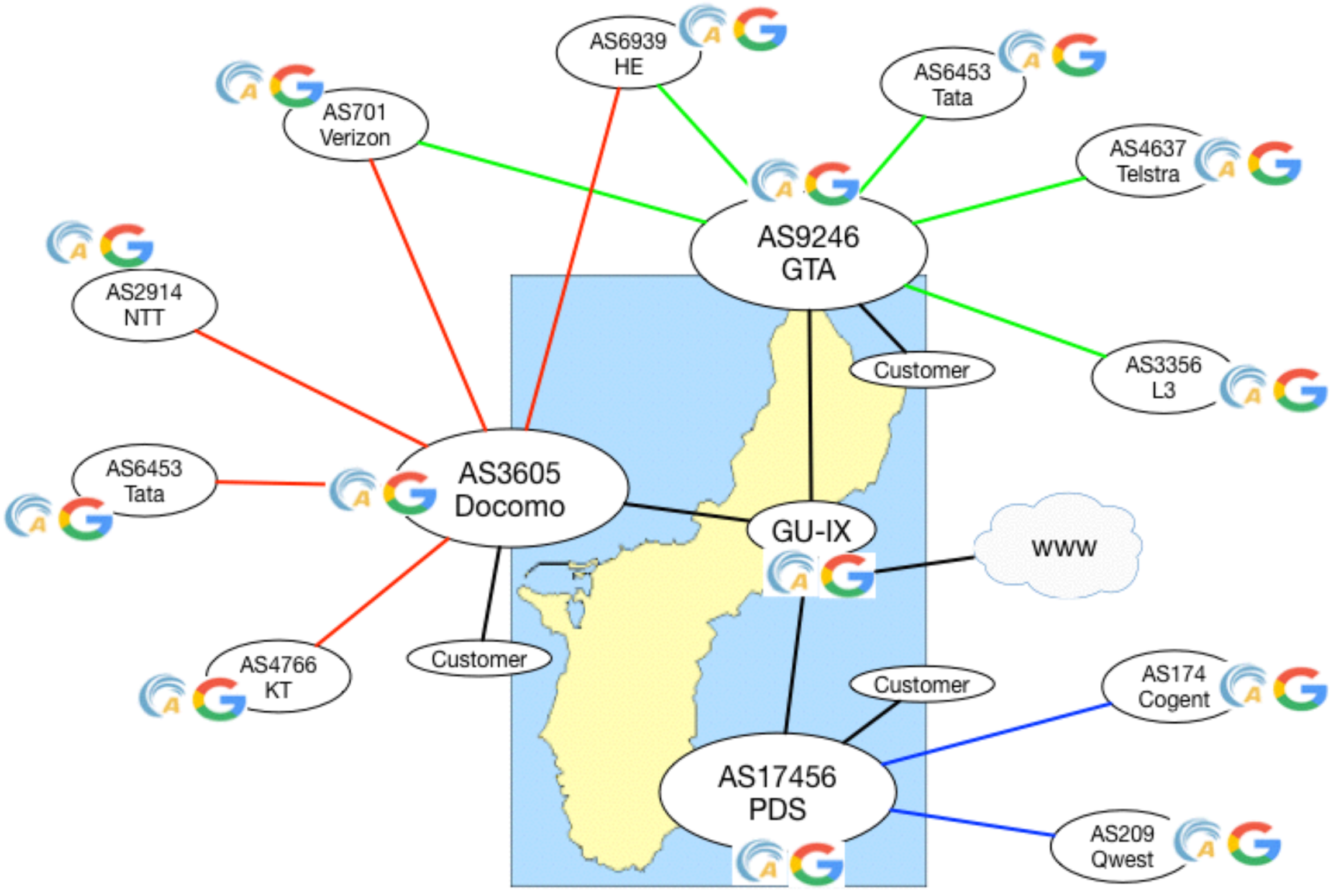
Ideal local situation



Uplinks would have CDNs



Local ISPs would probably have CDNs



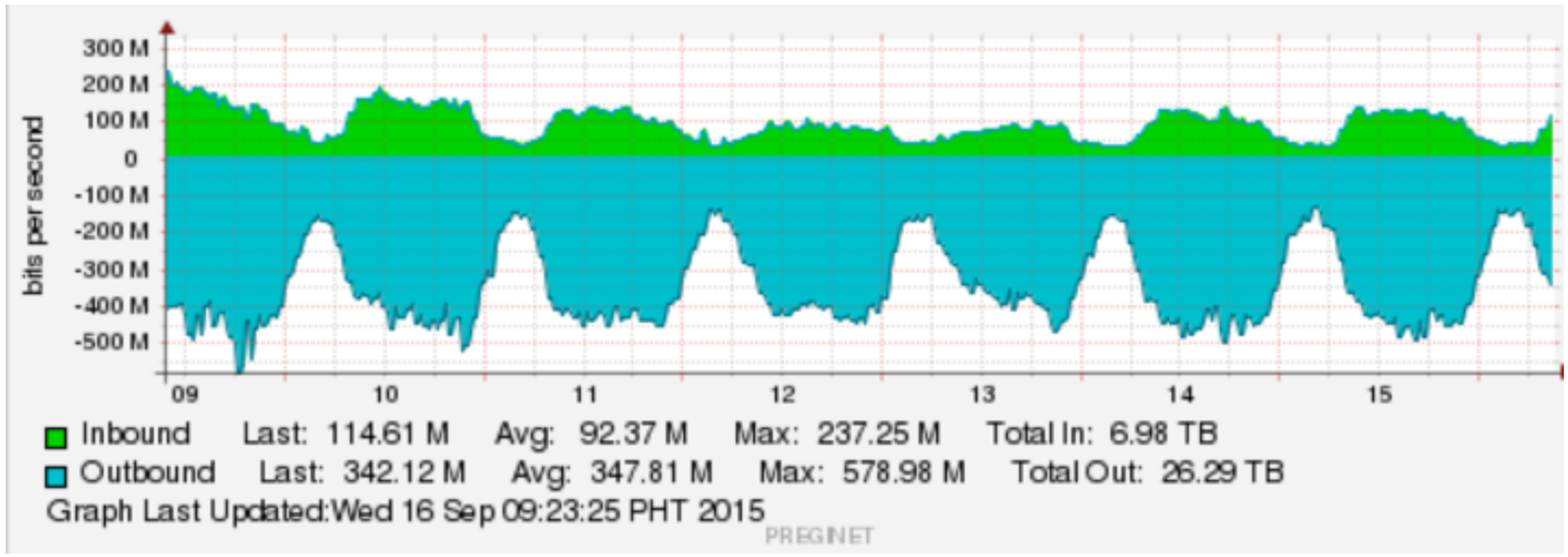
You can have a CDN at an IX, if somebody will provide an internet port for it to be able to sync up

Who pays for the internet port for the CDNs at the IX in the Philippines?

Akamai CDN

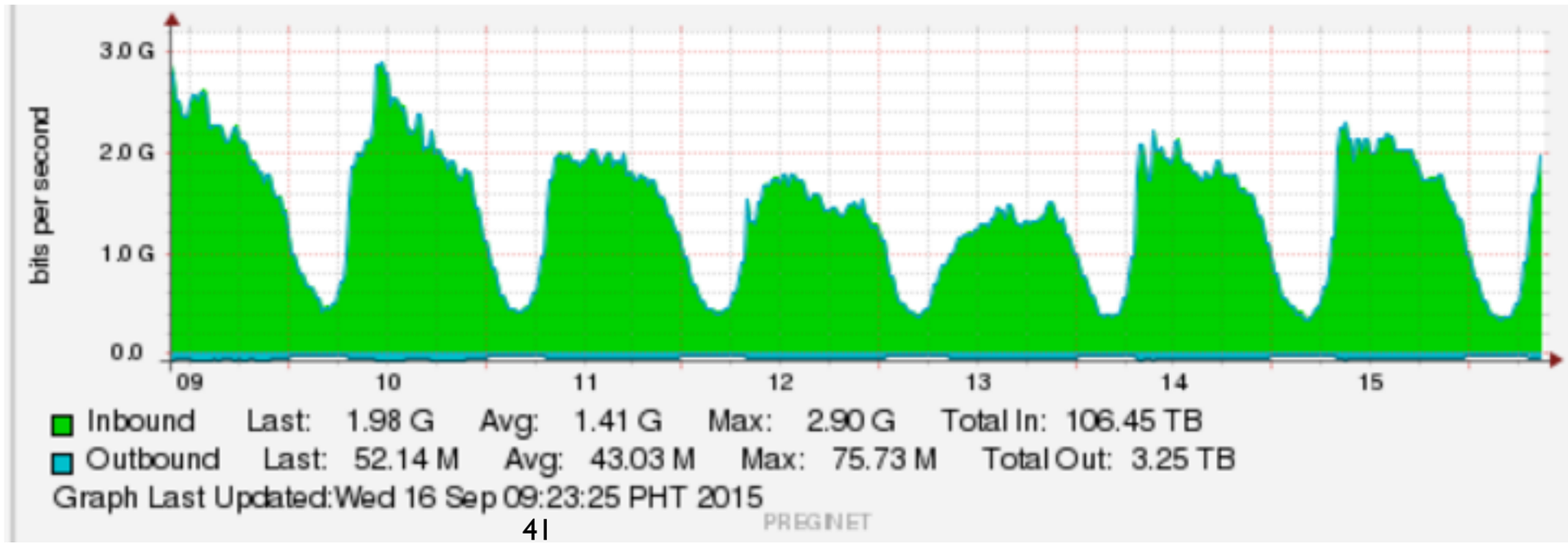
Traffic IN

from ASTI



Traffic OUT

into PhOpenIX

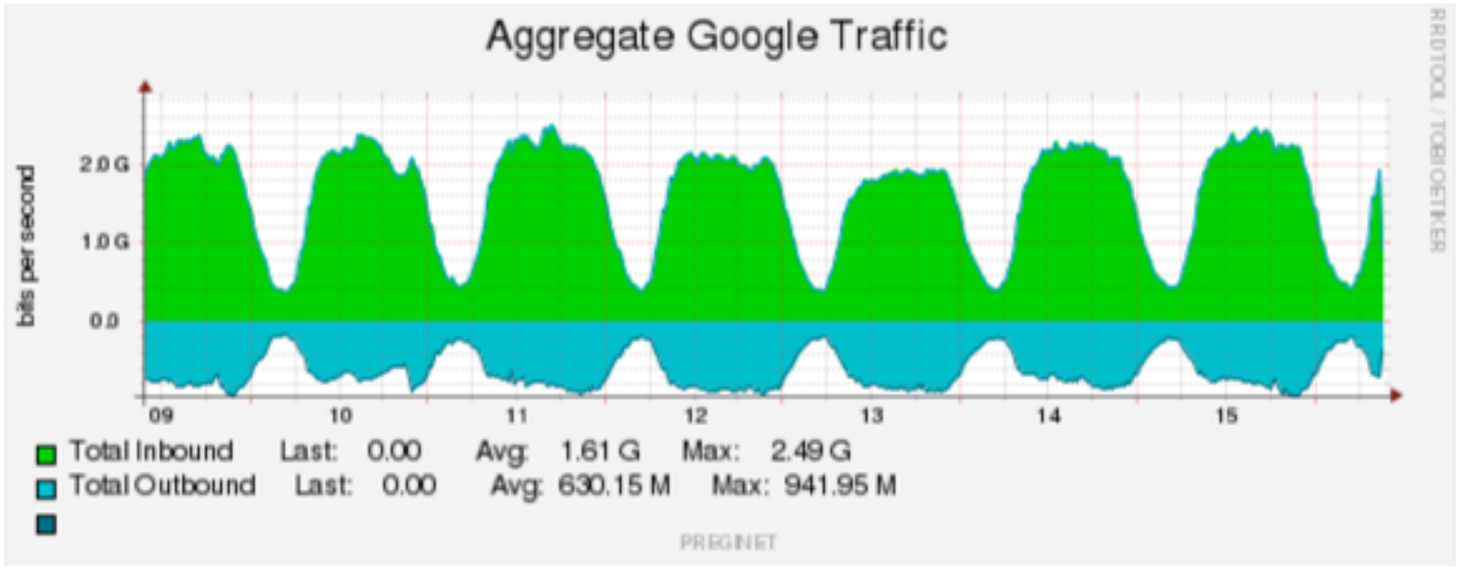


GOOGLE global cache

http://www.google.com/doodles/philippines-independence-day-2015

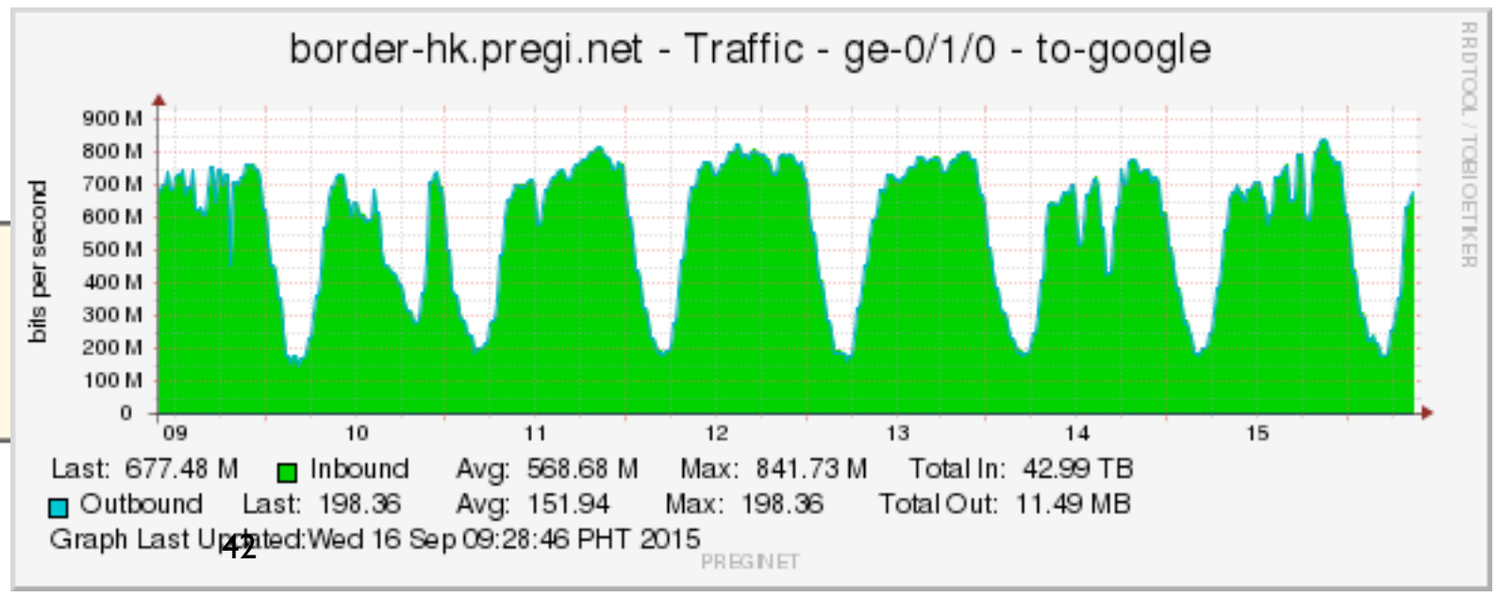
2Gb

600Mb



Your traffic levels qualify for Google Peering

Your network traffic could be better served through Google Peering



Philippine Research, Education and Government Information Network

PREGINET

PREGINET

- Philippine Research, Education and Government Information Network
- Proposed as a DoST project around 1999
- Granted funding around 2000
- Has been running as the only research and education network of the Philippines for the past 14 years

APAN

APAN/MAFFIN
via Tokyo
155Mbps
(going to 1Gbps)

IRRI
155Mbps
(going to 1Gbps)

10Gb
by
2016

1Gbps

1Gbps

10Gb
by
2016

TEIN*CC
via Hongkong
1Gbps

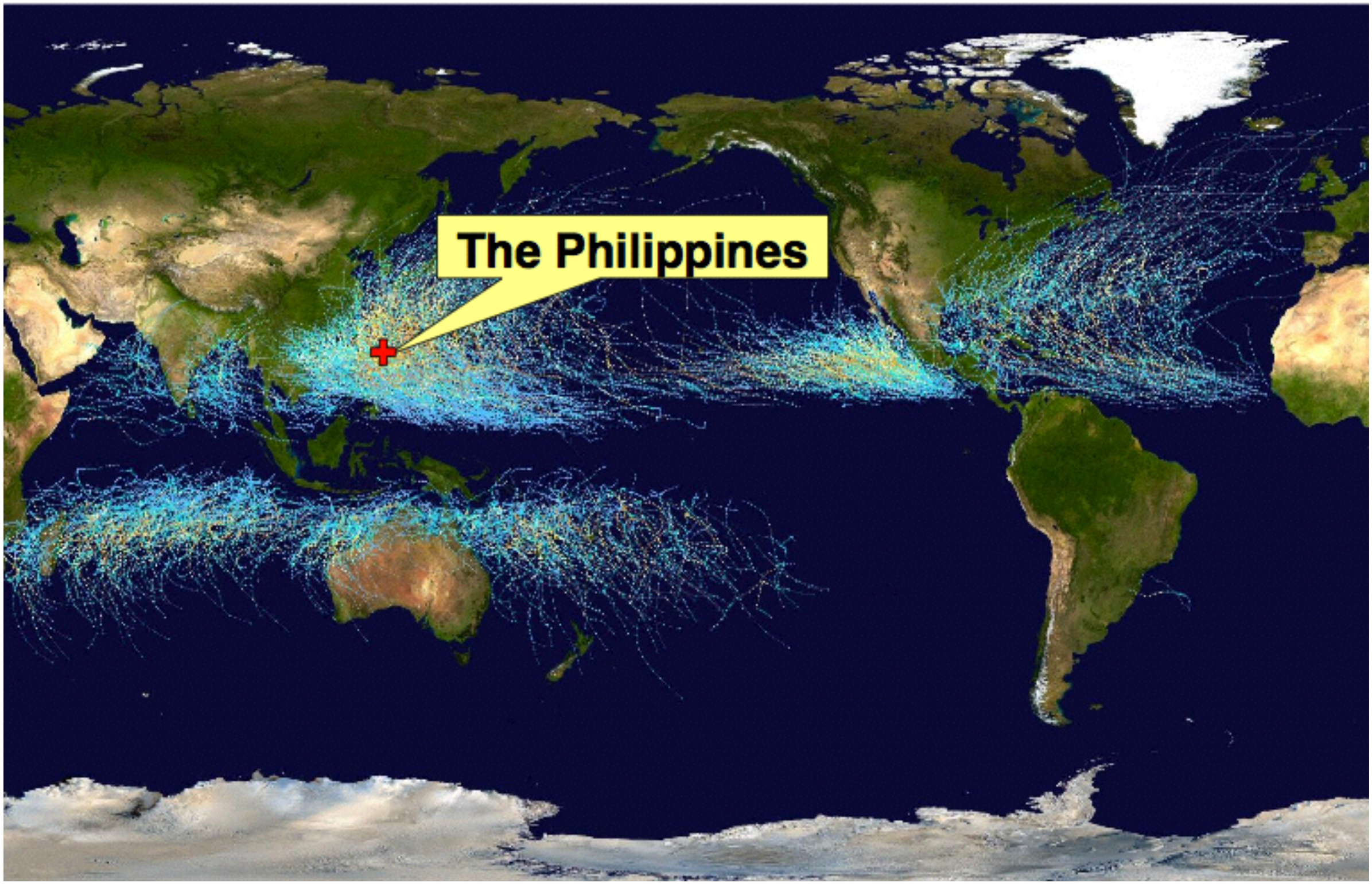
UDL
13Mbps

Cebu
1Gbps

PREGINET
International Network

Problems we address

Tracks of all Tropical Cyclones, 1985 to 2005.
Colours indicate intensity (yellows to reds = most intense).



http://icfr2013.ex.ac.uk/papers/B1_Duncan.pdf

Typhoon Pablo (Bopha) November, 2012

Photo credit: onlinehome.us

Habagat (Southwest Monsoon), August 2013

http://images.gmanews.tv/v3/webpics/v3/2013/08/2013_08_21_14_36_49.jpg

Typhoon Yolanda (Haiyan) November 2013

http://s1.ibtimes.com/sites/www.ibtimes.com/files/styles/v2_article_large/public/2013/11/10/typhoon-1.jpg

Typhoon Glenda (Rammasun) July, 2014

http://motioncars.inquirer.net/files/2014/07/620x413x20140716JB-18.jpg.pagespeed.ic_.UEhJgIAFKO.jpg

Orchids Home Subidivision, Santiago, Iligan

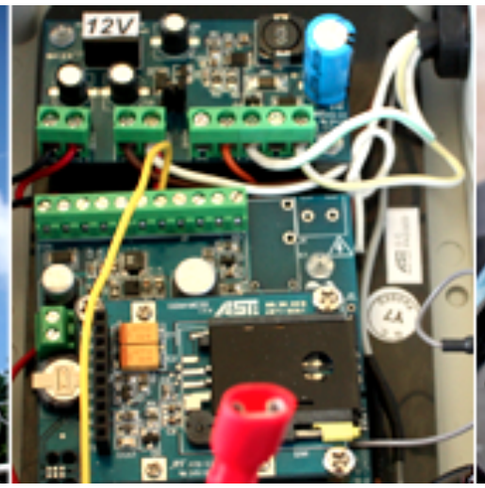
http://www.firmbuilders.com.ph/

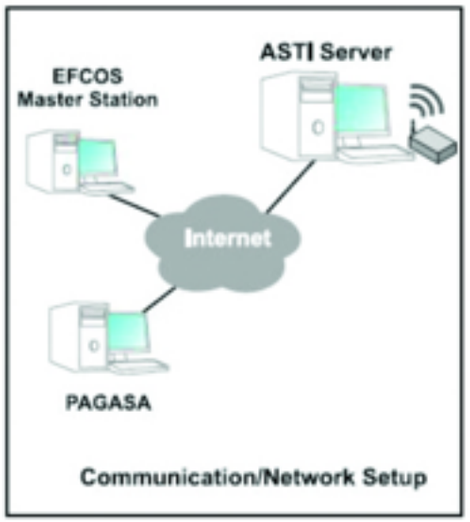
Orchids Home Subidivision, Santiago, Iligan

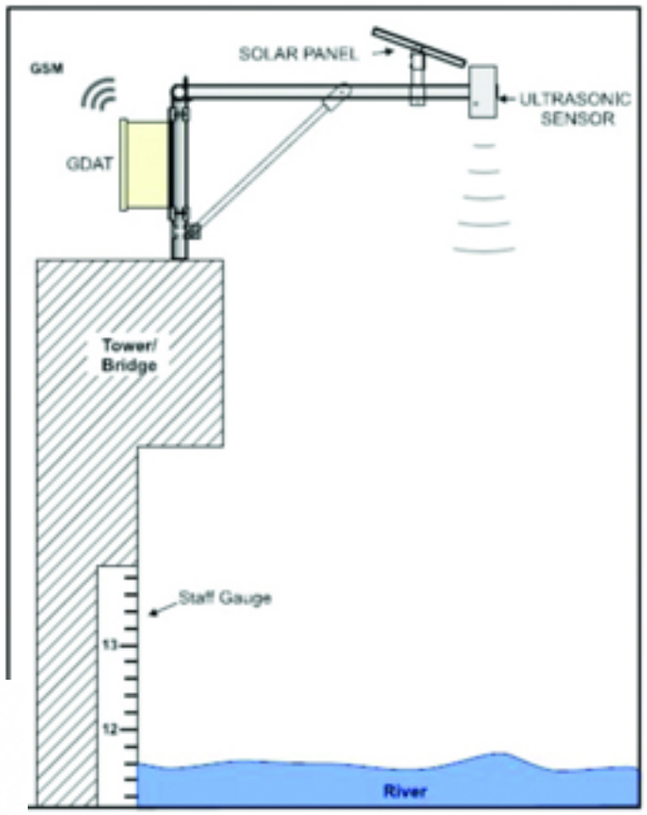
Initiatives

- Deployment and installation of hydrometeorological sensors
- Integration of doppler radar, ground stations, and satellite remotely-sensed data into forecast models
- HPC implementation of Numerical Weather Prediction (NWP) model systems
- Use of 3D LIDAR technology for generation of hazard maps and flood inundation models
- Establishment of a central data archiving facility

http://embedded.asti.dost.gov.ph/projects

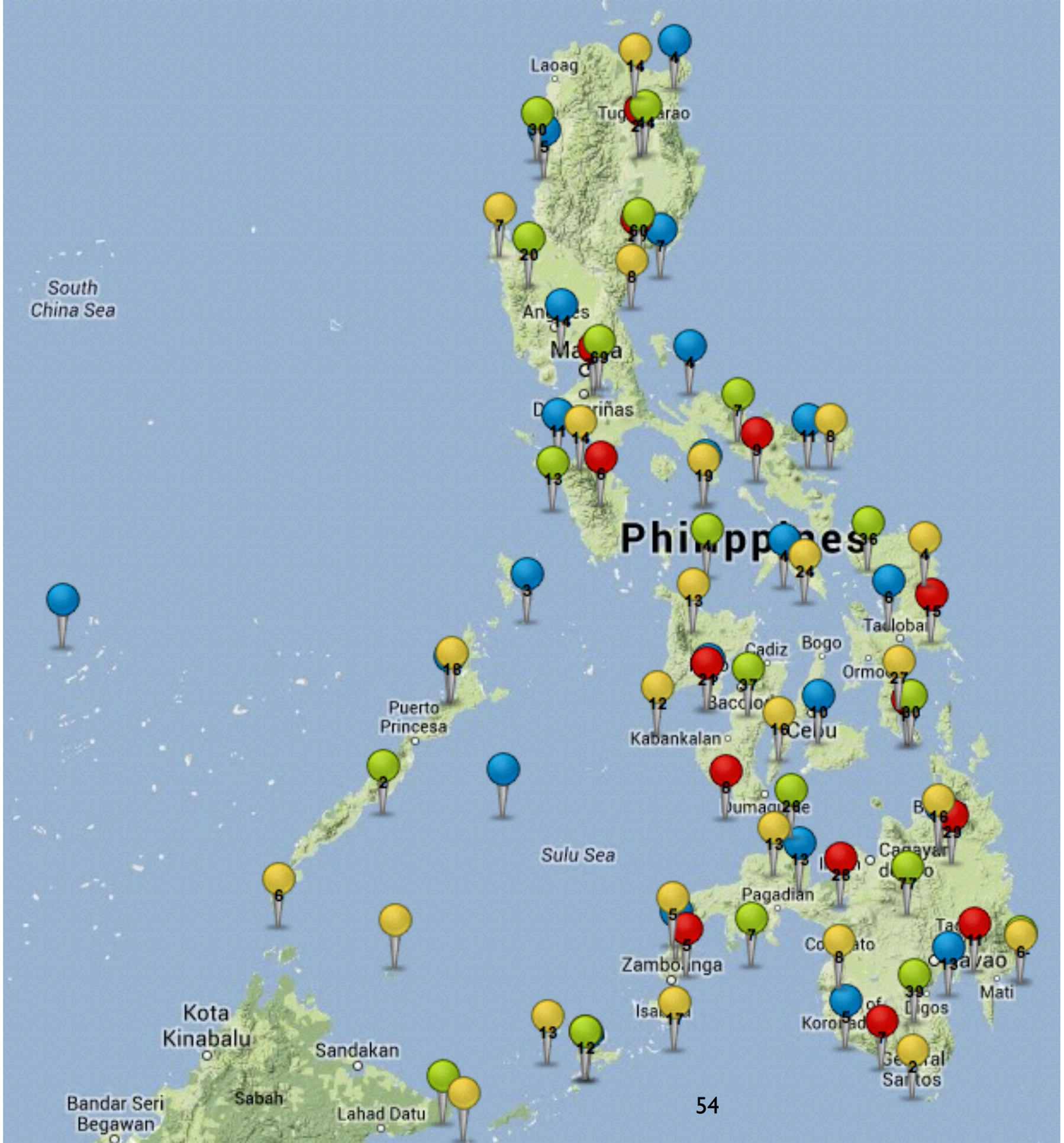






Installation of ASTI Water level Monitoring Apparatus

http://embedded.asti.dost.gov.ph/projects



Weather Stations

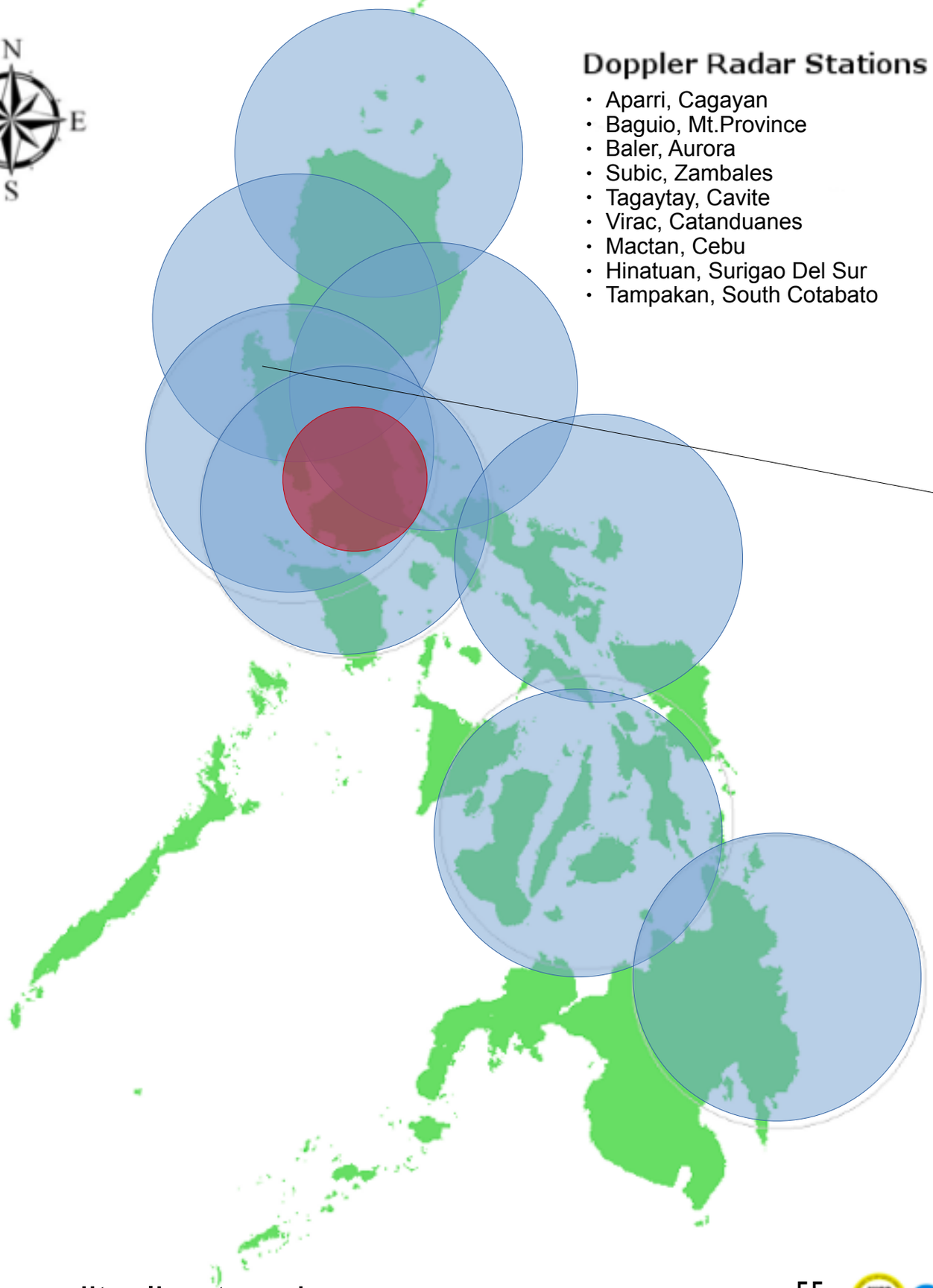
Stream Gauges

Rain Gauges

Tide Levels

Doppler Radar System Development

PAGASA Doppler Radar
Philippine Atmospheric, Geophysical, and Astronomical Services Administration



Doppler Radar Stations

- Aparri, Cagayan
- Baguio, Mt.Province
- Baler, Aurora
- Subic, Zambales
- Tagaytay, Cavite
- Virac, Catanduanes
- Mactan, Cebu
- Hinatuan, Surigao Del Sur
- Tampakan, South Cotabato

Image credit: climatex.ph

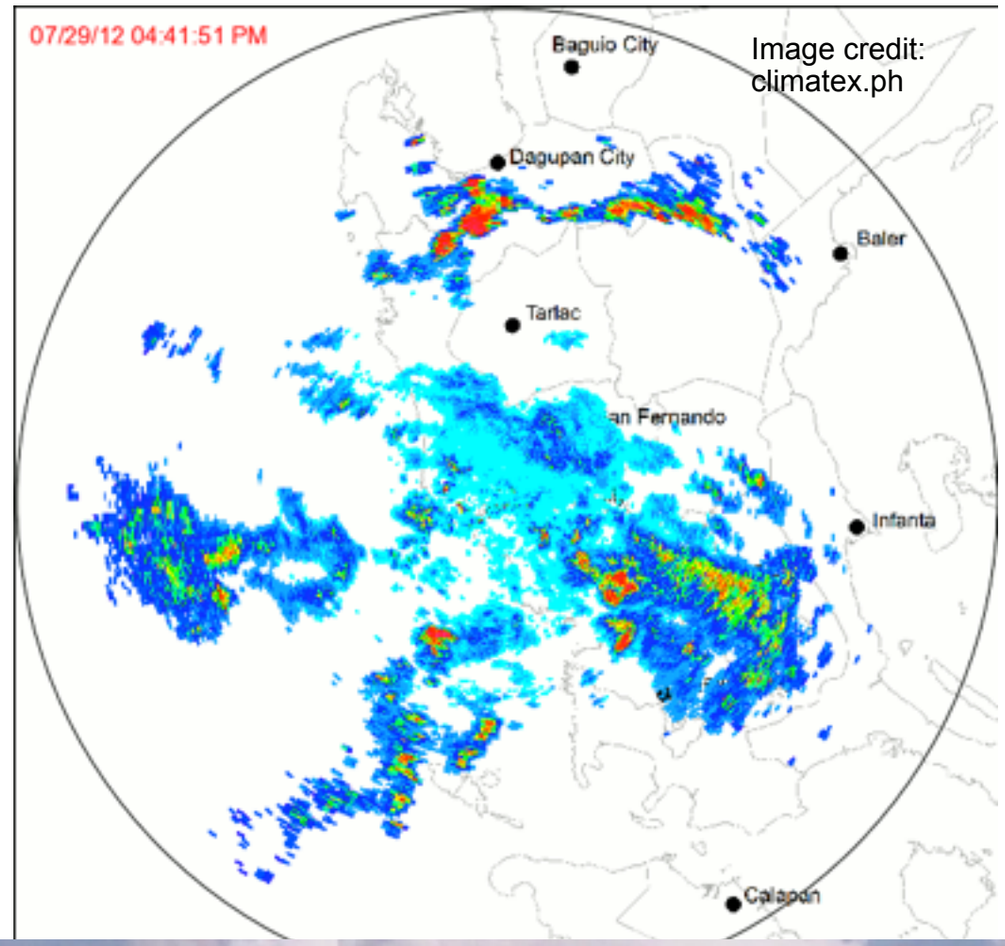
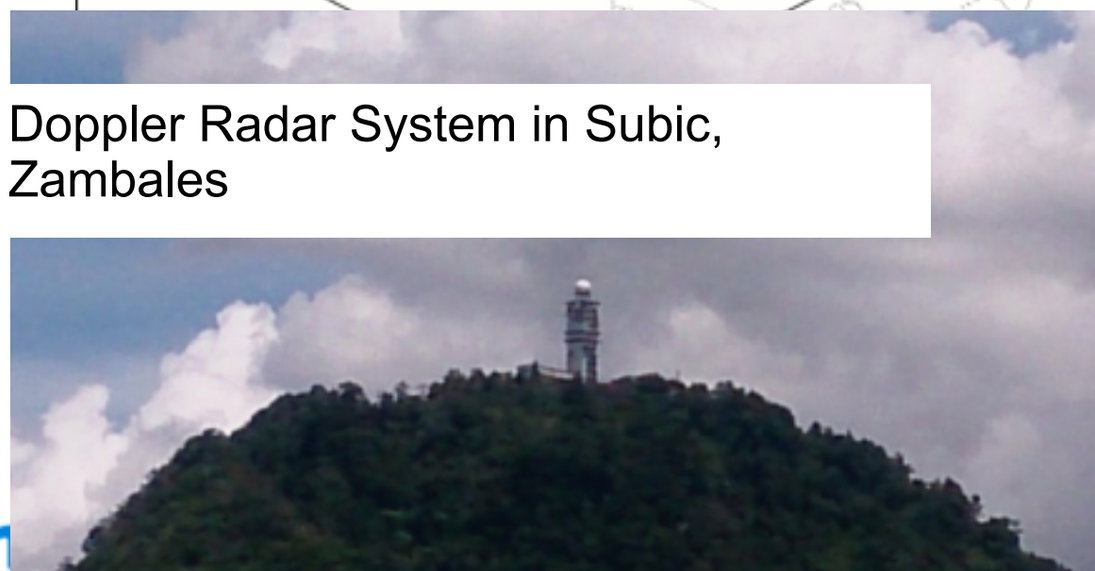


Image credit: climatex.ph



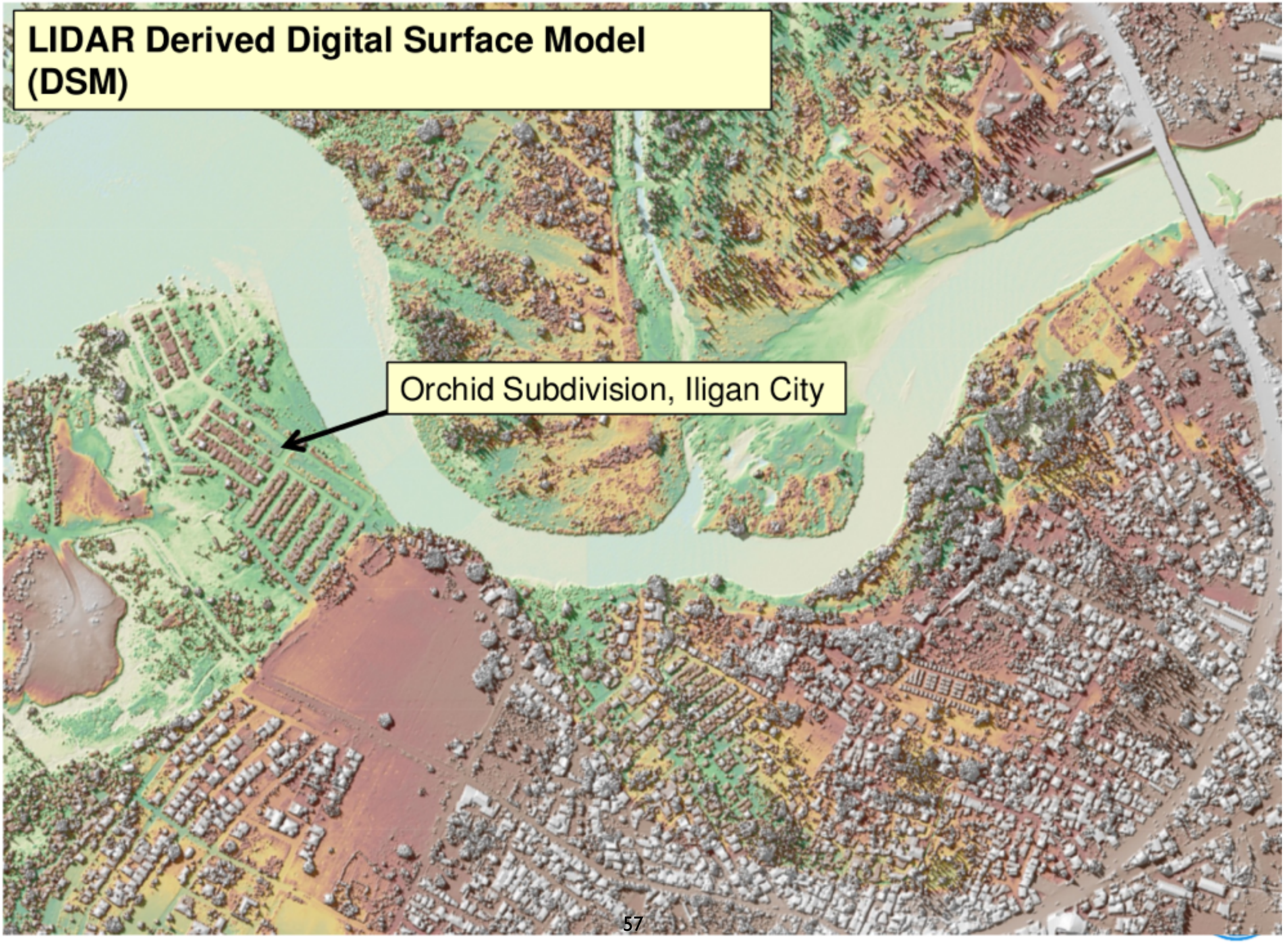
Doppler Radar System in Subic, Zambales

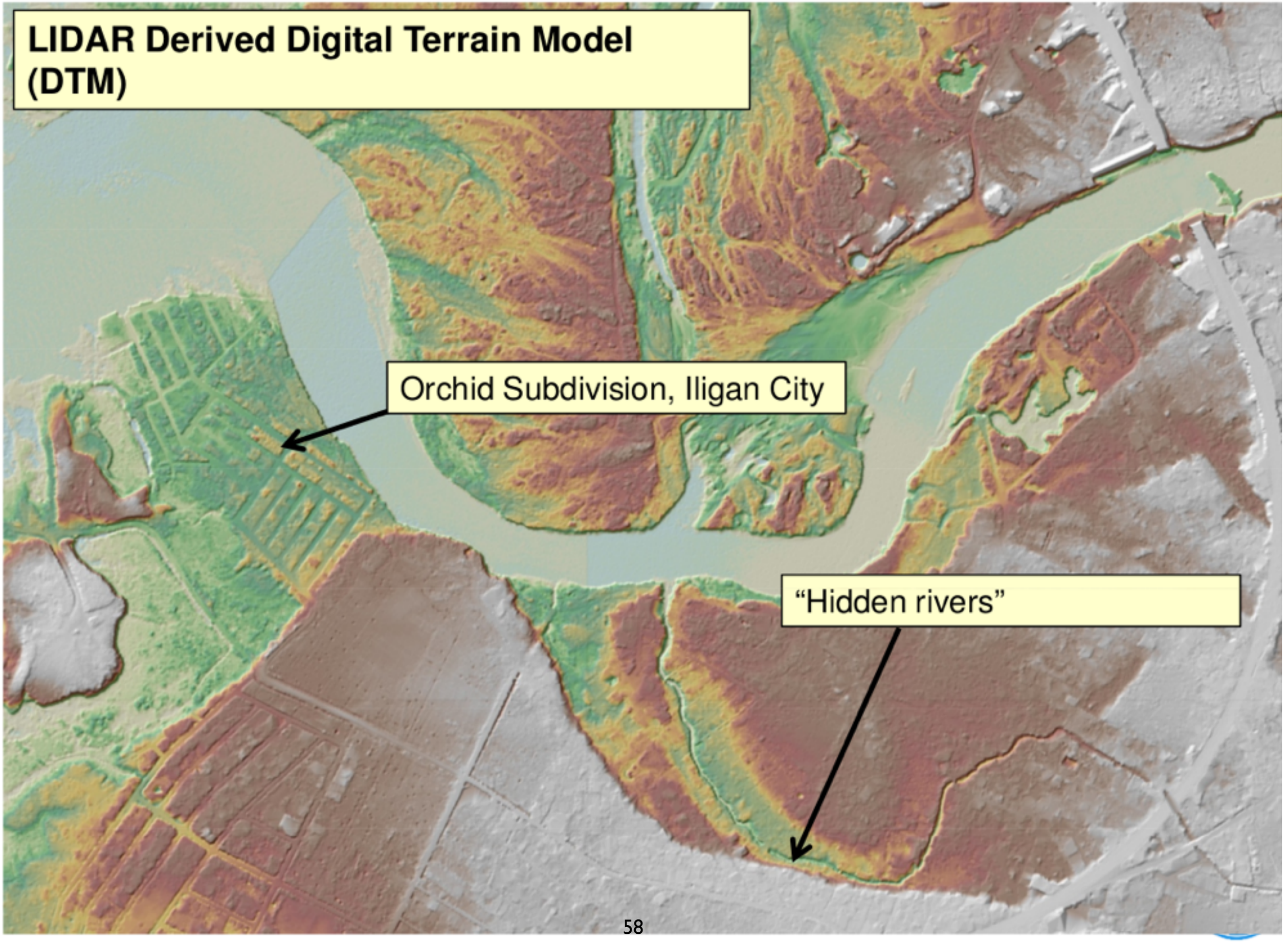
TEIN COOPERATION CENTER

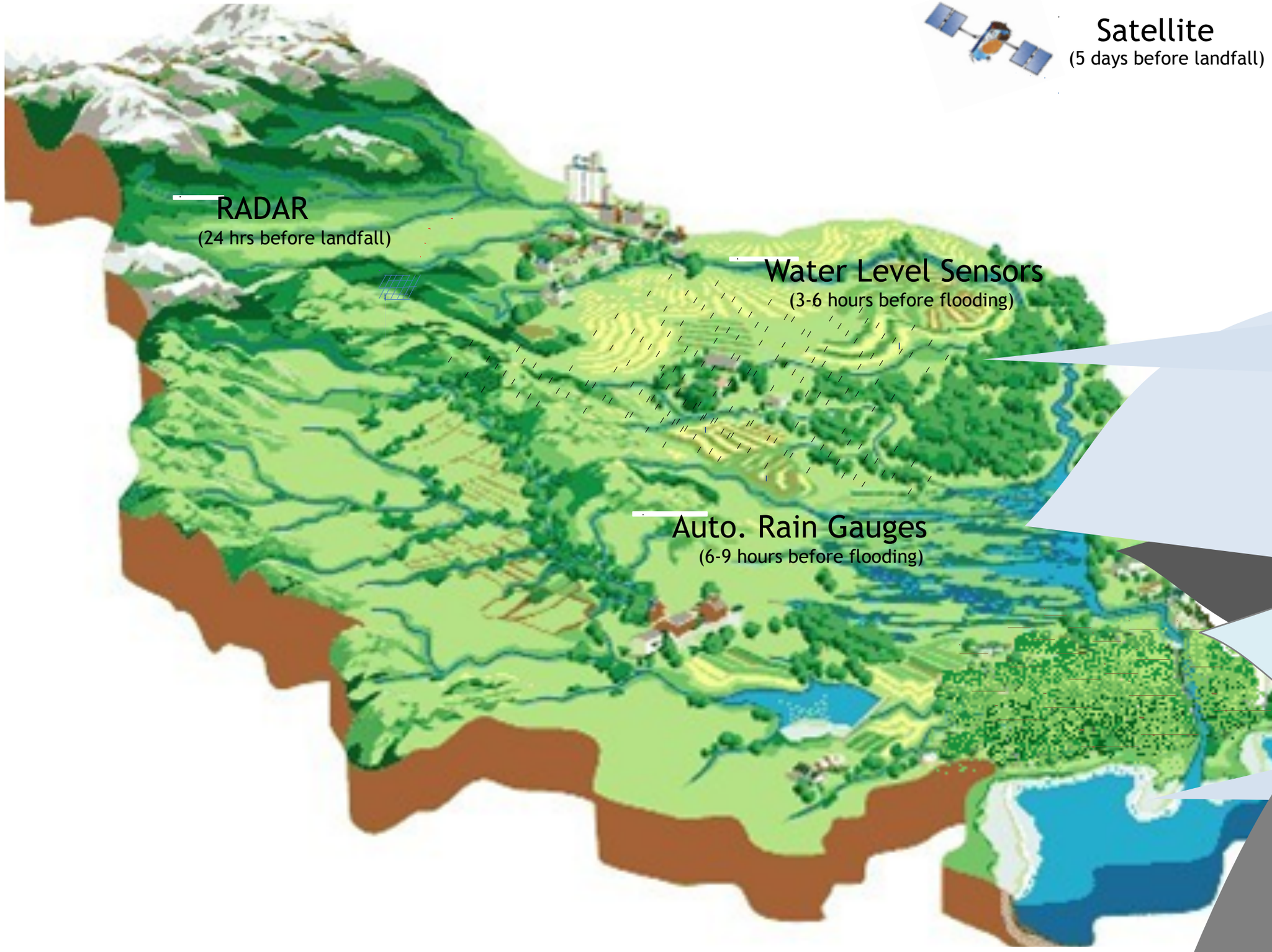
Transfer of data is done using TEIN-CC's digital SilkRoad

From Germany's weather bureau, we transfer around 15 files (14Mb each) of weather data twice a day

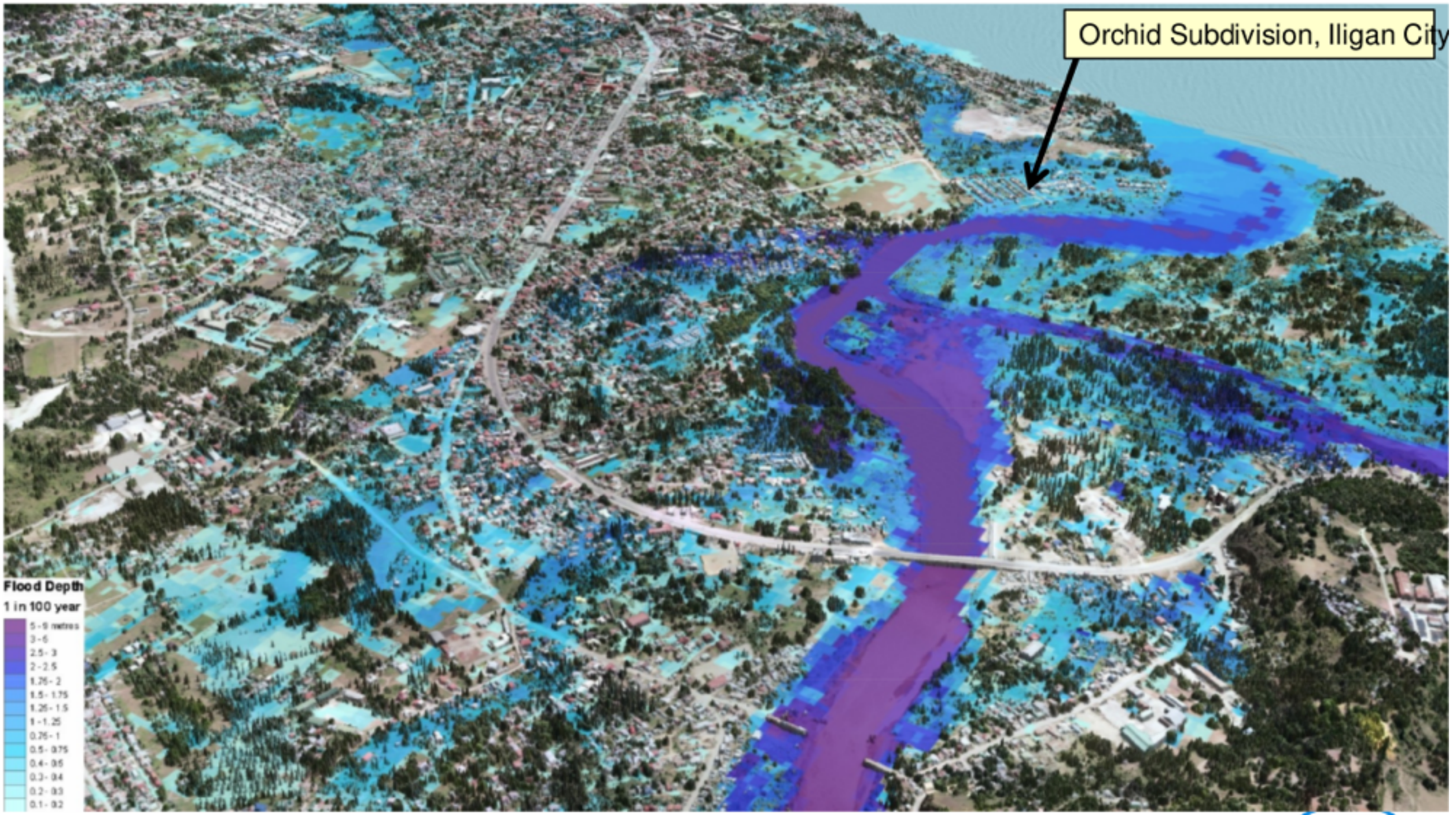
From the MET office of UK, we transfer 2 files (~200Mb each) of weather data, also twice a day


LIDAR Derived Digital Surface Model
(DSM)
Orchid Subdivision, Iligan City


LIDAR Derived Digital Terrain Model (DTM)
Orchid Subdivision, Iligan City
“Hidden rivers”

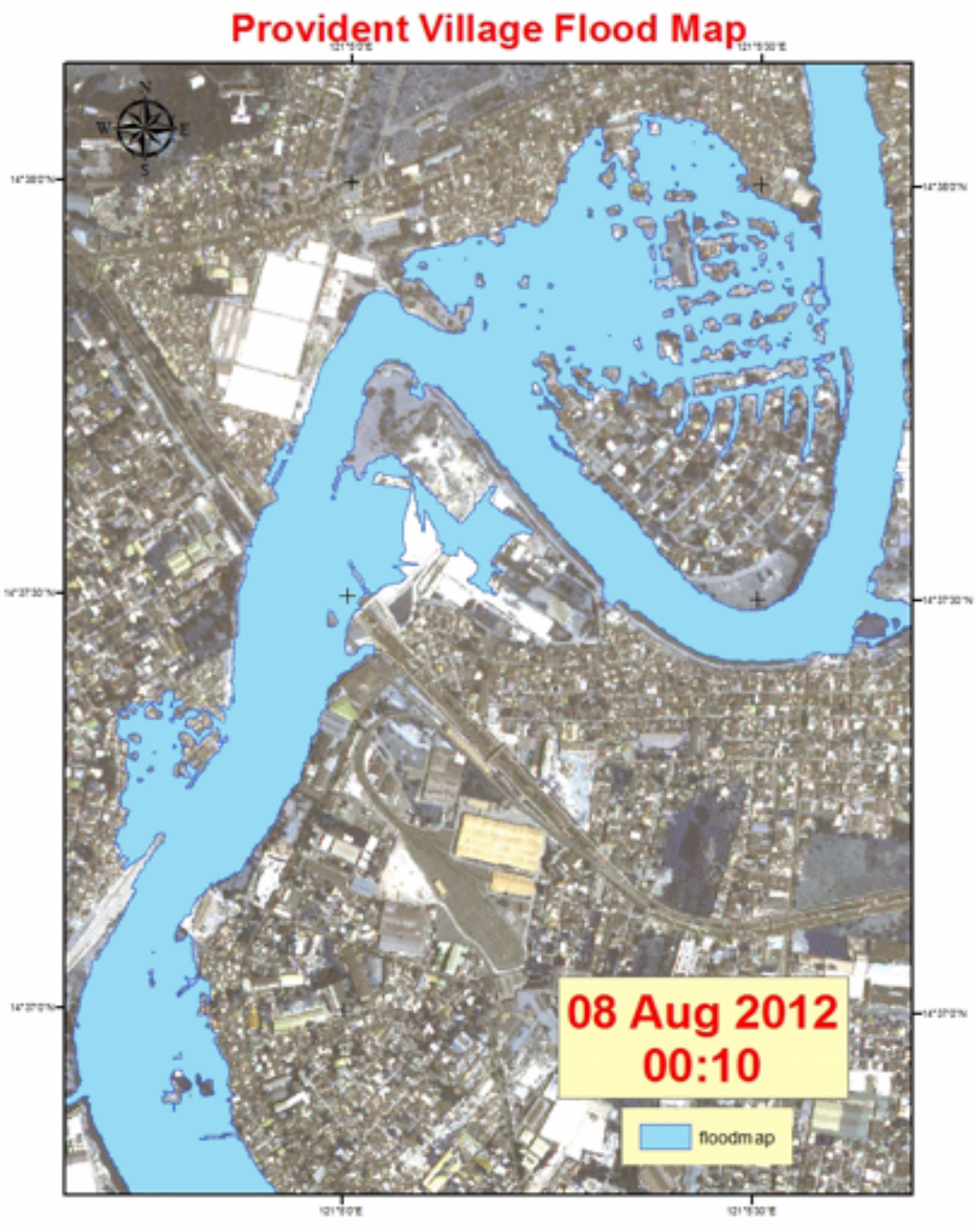

Satellite
(5 days before landfall)
RADAR
(24 hrs before landfall)
Water Level Sensors
(3-6 hours before flooding)
Auto. Rain Gauges
(6-9 hours before flooding)

3D Visualisation of the Flood Model derived using LIDAR data for the Mandulog River, Iligan City. 1 in 100 year event modelled, flood depth shown.



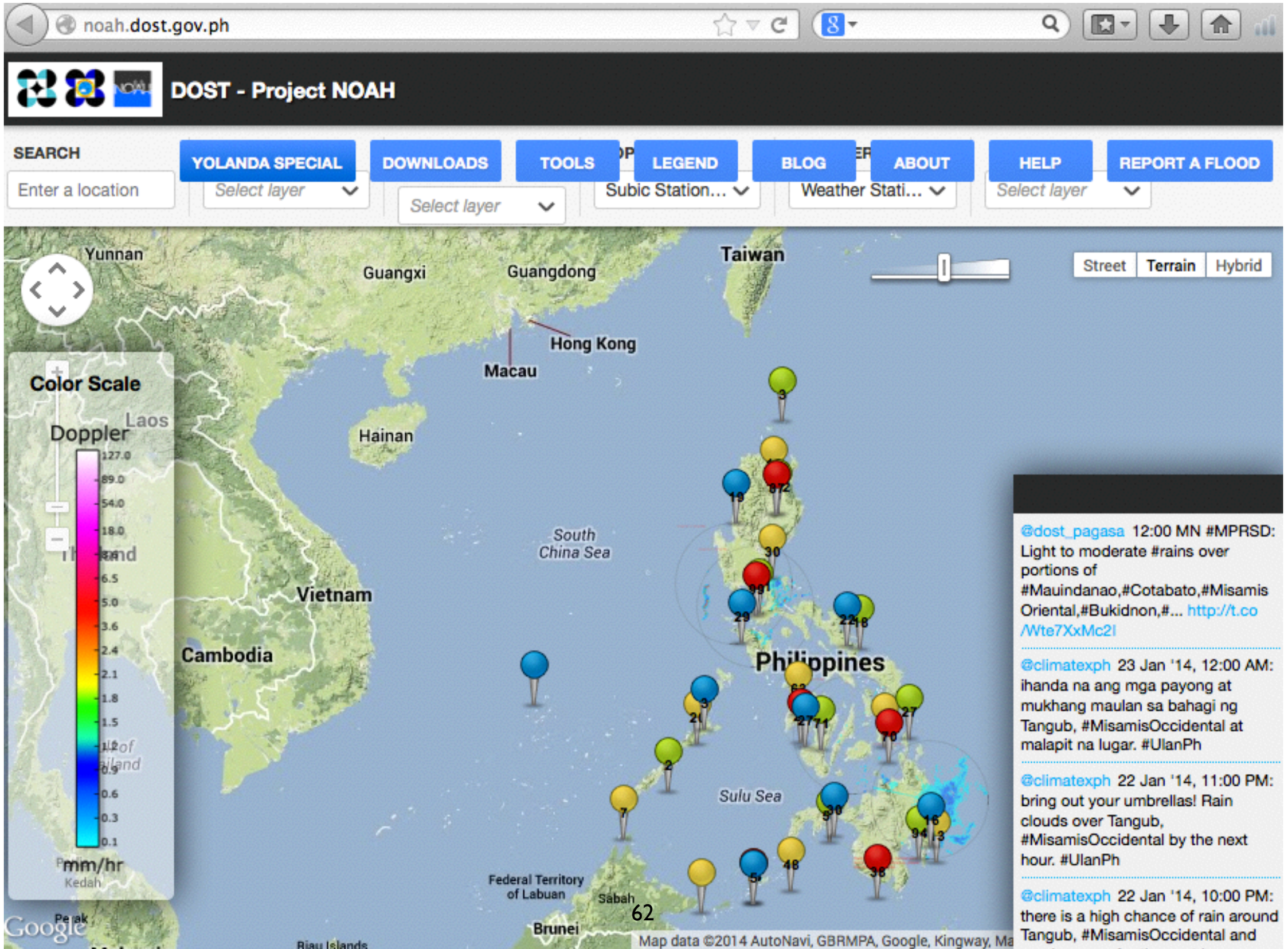
© Image from 1 in 100 year flood model produced by the DREAM-LIDAR component of Project NOAH. Modelled flood depth is shown overlain on the surveyed aerial photo and LIDAR Digital Surface Model.

Rapid Flood Simulation for Flood Events

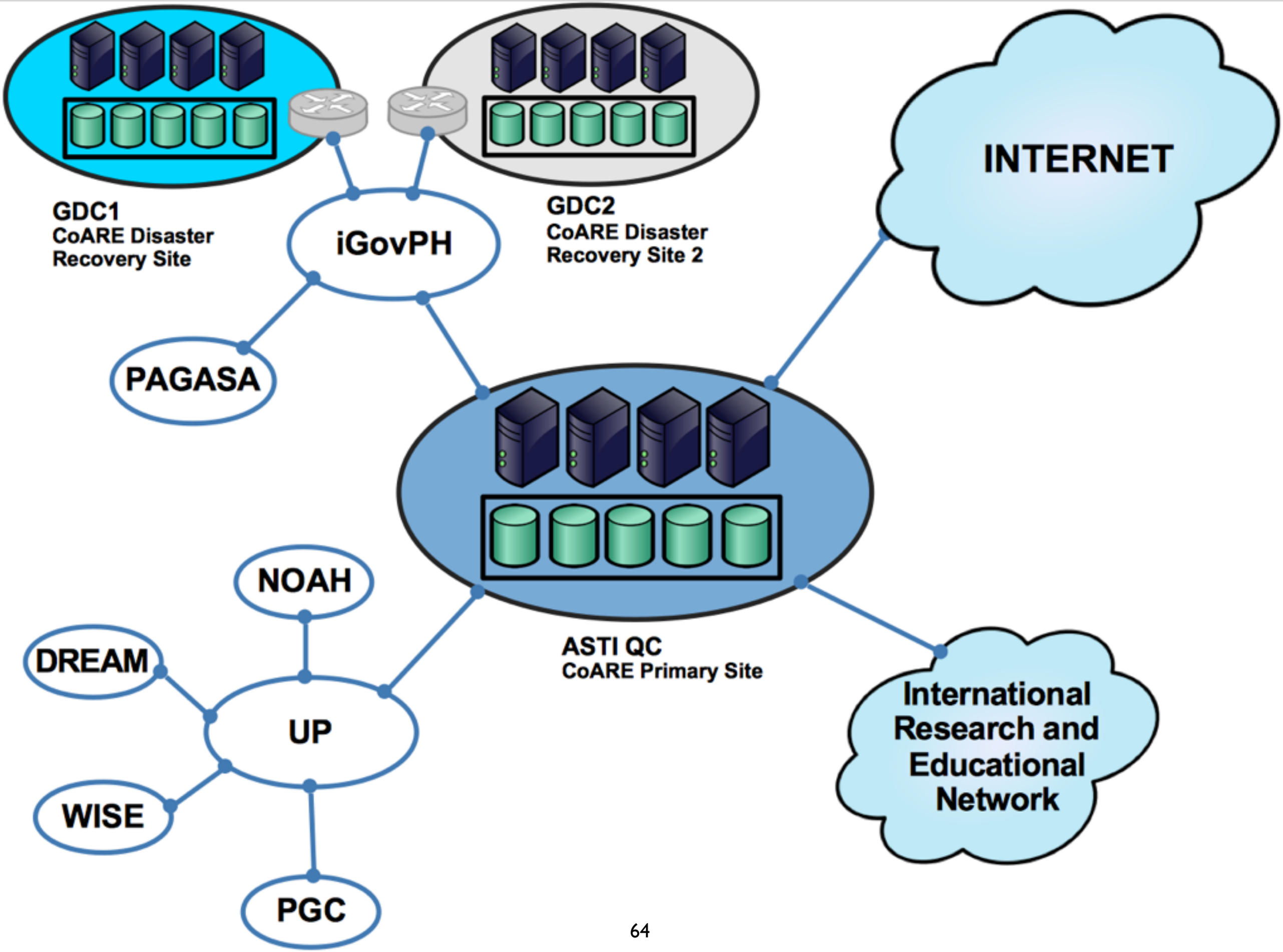


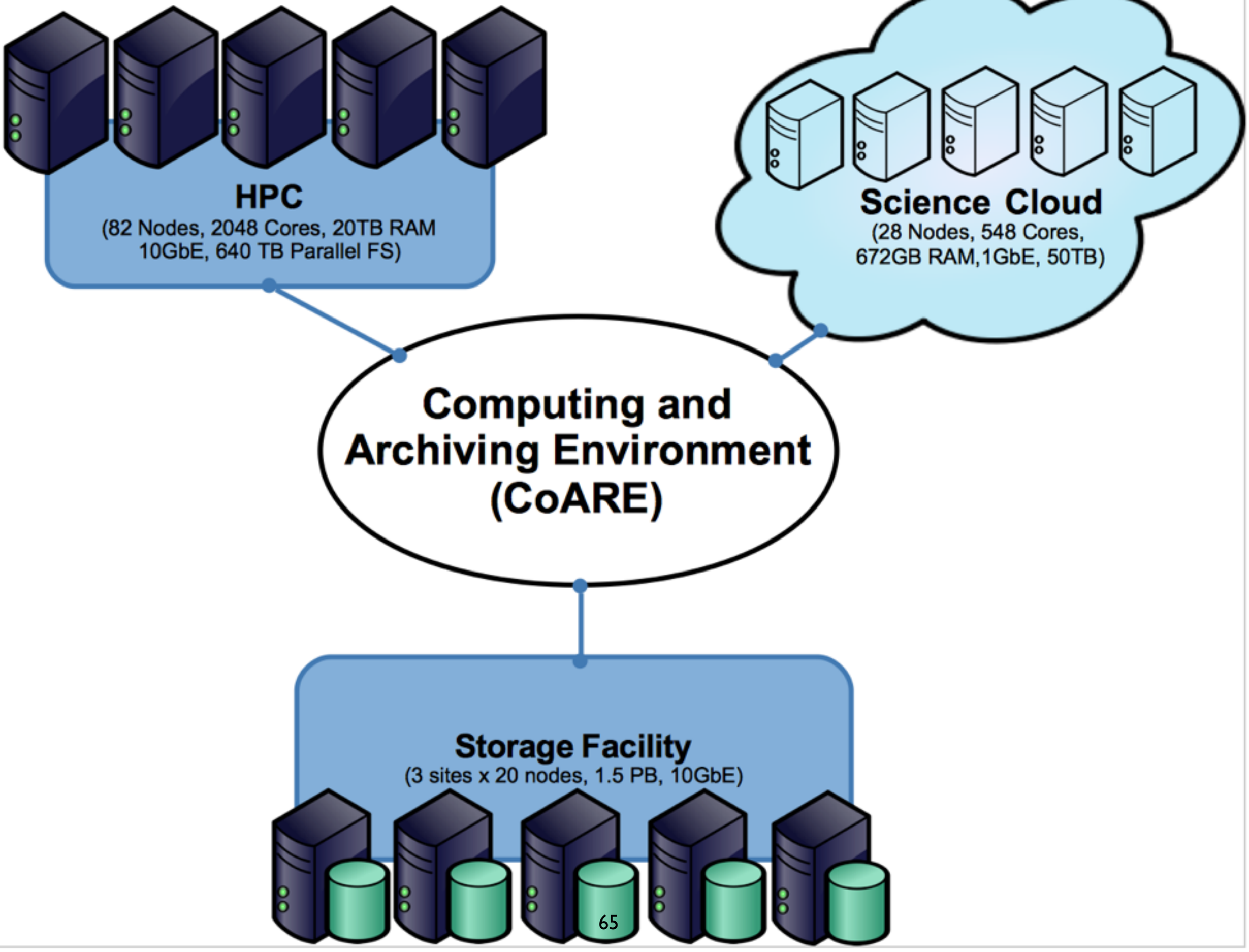
Simulated over Office of Civil Defense (OCD) – CSCAND$_{6t}$ Lidar data

http://noah.dost.gov.ph



High Performance Computing (HPC)


GDC1
CoARE Disaster
Recovery Site
GDC2
CoARE Disaster
Recovery Site 2
INTERNET
iGovPH
PAGASA
ASTI QC
CoARE Primary Site
NOAH
DREAM
UP
WISE
PGC
International
Research and
Educational
Network


HPC
(82 Nodes, 2048 Cores, 20TB RAM
10GbE, 640 TB Parallel FS)
Science Cloud
(28 Nodes, 548 Cores,
672GB RAM,1GbE, 50TB)
Computing and
Archiving Environment
(CoARE)
Storage Facility
(3 sites x 20 nodes, 1.5 PB, 10GbE)

2015: WHERE WE ARE NOW

- Computing and Archiving Research Environment (CoARE) Project

Science Cloud

2015: WHERE WE ARE NOW

- Computing and Archiving Research Environment (CoARE) Project

Storage

2015: WHERE WE ARE NOW

- Computing and Archiving Research Environment (CoARE) Project

Introducing Diwata, the first Philippine-made satellite

Diwata is one of two micro-satellites the Philippines hopes to launch in 2016 and 2017. It is expected to improve weather forecasting, disaster management, forest protection and other public services.

Pia Ranada

@piaranada

Published 12:11 PM, March 10, 2015

Updated 1:23 PM, March 10, 2015

62

22K

422

Reddit

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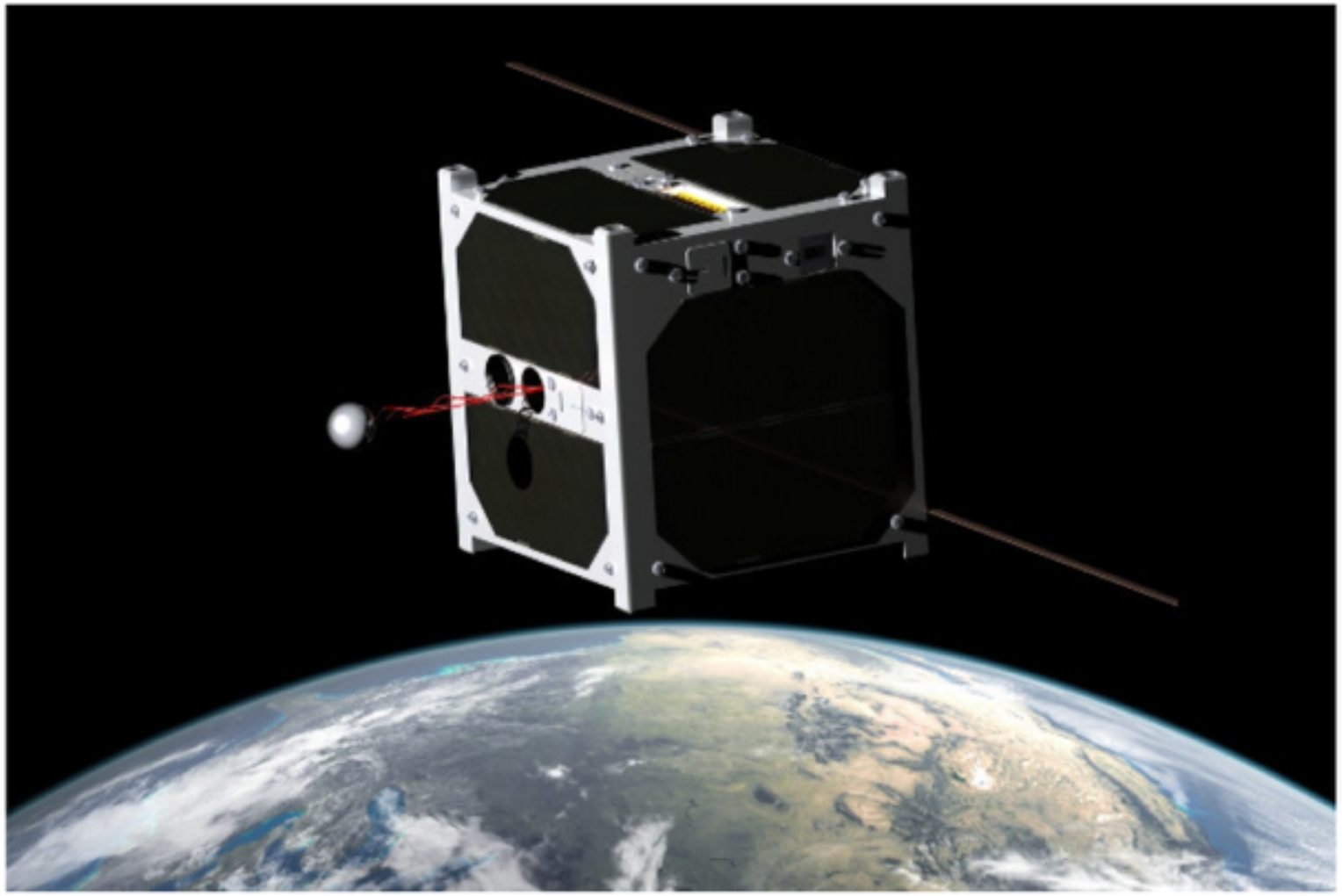
22K

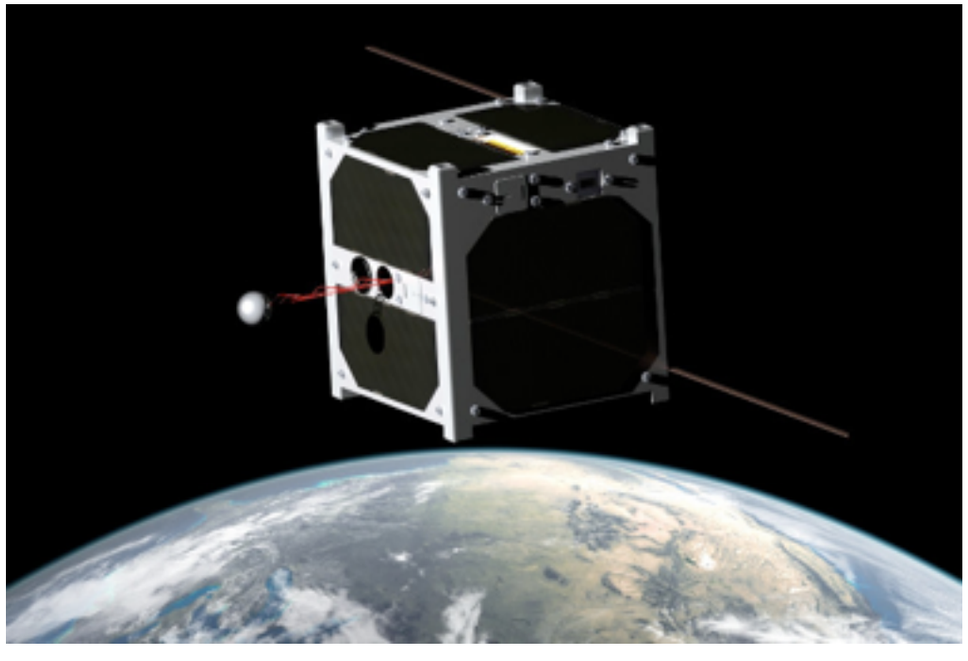


UP IN SPACE. Diwata, the Philippines' first microsatellite, may look like this, the 1U CubeSat ESTCube-1 which was developed by Estonia. Image from Wikipedia

MANILA, Philippines – The Philippines will launch its very own satellites into space in 2016 and 2017, the Department of Science and Technology (DOST) announced on Tuesday, March 10.

Philippine Satellite Project

- A ground receiving station will be setup and it will be linked to PREGINET
- The Philippine NREN will be the primary storage facility of the data collected by this infrastructure



APAN 26th (NZ)
Kyoto Univ. (JP)
AQUA
九州大学
KYUSHU UNIVERSITY
CONCORD HOSPITAL SYDNEY

https://itc.uplb.edu.ph:1443/?q=node/161

debian snmp

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Call Manila landlines for FREE using UPLB VoIP phones.

We can now make use of our VoIP phones to call Manila landlines with no additional costs. It is just like calling your neighbor. This was made possible by the generous action of IRRI of letting UP Los Banos share its direct fiber optic connection for non-commercial traffic; thus, creating a direct connection to UP Diliman.

VoIP calls to Manila will not mean additional bandwidth consumption for UPLB. Instead of going through our leased lines (ISP), VoIP calls will pass through the IRRI-UPD link via PREGINET. This feature will save UPLB some money on its official call transactions on Manila area, specially with the UP Diliman campus.

Office of the President of the Philippines
COMMISSION ON INFORMATION AND COMMUNICATIONS TECHNOLOGY

MEMORANDUM CIRCULAR No. 01

Subject: **Implementing Rules and Regulations (IRR) of Executive Order (E.O) No. 893 – Promoting the Deployment and Use of Internet Protocol Version 6 (IPv6)**

Whereas, pursuant to Section 24, Article II (Declaration of Principles and State Policies) of the 1987 Constitution states that, "The State shall recognize the vital role of communication and information in nation-building";

Whereas, advanced Internet services are now widely used and have become an enabler to social and economic development of all countries, as these services have increased worker productivity and connected local businesses to local and international markets;

http://www.pregi.net/?dl_name=IRR_EO_893_MC_No._1.pdf

IPv6 Summit 2011

www.gov.ph/sona/

Video

2011 State of the Nation Address

Benigno S. Aquino III, Second State of the Nation Address, July 25, 2011

Senate President Juan Ponce Enrile; Speaker Feliciano Belmonte Jr.; Bise Presidente Jejomar Binay; mga dating Pangulong Fidel Valdez Ramos at Joseph Ejercito Estrada; Chief Justice Renato Corona at ang ating mga kagalang-galang na mahistrado ng Korte Suprema; mga kagalang-galang na kasapi ng diplomatic corps; mga butihing miyembro ng Kamara de Representante at ng Senado; mga Local Government officials; mga miyembro ng ating Gabinete; mga unipormadong kasapi ng militar at kapulisan; mga kapwa ko nagseserbisyo sa taumbayan;

At sa mga minamahal kong kababayan, ang aking butihing mga boss: Continue reading →

Benigno S. Aquino III, Second State of the Nation Address, July 25, 2011 (English translation)

Senate President Juan Ponce Enrile; Speaker Feliciano Belmonte Jr.; Vice President Jejomar

www.senate.gov.ph/videos/live2.asp

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Philippines
15th Congress

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Session No. 1
15th Congress - Second Regular Session

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OF THE PHILIPPINES

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2011 BAR EXAMINATIONS

Preparing for Bar Examinations and Beyond
Syllabus for 2011 Bar Examinations

SMALL CLAIMS

Amended Rule of Procedure for Small Claims Cases
Downloadable Forms
Small Claims Poster

RULE OF PROCEDURE FOR ENVIRONMENTAL CASES

A.M. No. 09-6-8-SC
Annotation
Rationale

MORE >>

SUPREME COURT NEWS

RECENT DECISIONS

UPLB Graduation 2011

http://graduation.uplb.edu.ph/

- over 500++ simultaneous network connections!
- 30233 unique IPs connected
- ate up almost 100Mbps of outbound traffic

Network Time Protocol

- ntp.phopenix.net

PAGASA's newly installed atomic clock

Republic of the Philippines

PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION

"tracking the sky...helping the country"

PHILIPPINE STANDARD TIME

www.pregi.net

This is the public mirror service of PREGINET.

Access to the software archives are available via HTTP or FTP.

DISCLAIMER: The use of the facility is at your sole risk and comes with no implied warranty of any kind.

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File Name ↓	File Size ↓	Date ↓
CPAN/	-	2015-Nov-28 21:33
Linux/	-	2015-Nov-06 14:35
R/	-	2015-Nov-29 03:13
apache/	-	2015-Oct-28 01:14
centos/	-	2015-Nov-29 03:10
debian/	-	2015-Nov-29 12:23
debian-cd/	-	2015-Sep-09 22:16
epel/	-	2015-Nov-29 01:46
fedora/	-	2014-Nov-12 08:34
gnu/	-	2015-Oct-15 08:25
pub/	-	2015-Oct-28 14:58
rpmfusion/	-	2014-Jul-16 06:46
tex-archive/	-	2015-Nov-28 01:02
ubuntu/	-	2015-Nov-29 05:52
ubuntu-releases/	-	2015-Nov-28 00:40

Please send your comments and suggestions regarding this site by mail to ops-at-pregi-net.

Back to internet exchanges

How we started our IX

Thank you

Amante Alvaran
APNIC

Paul Wilson
APNIC

Bill Woodcock
PCH

Gaurab Raj Upadhaya
PCH

Philip Smith
Cisco

Kurt Lindqvist
Netnod

Bill Manning
USC ISI

Ceejay Dideles
ASTI-DOST

http://www.apnic.net/docs/apster/issues/apster21-200702.pdf
i-root
i-root philippines - Go...
DNS root nameserve...
cacti
cacti
apster21-200702....
Problem loading page
Save a Copy
Select
100%
Search Web
Upgrade to Acrobat. Click Here
Pages
Attachments
Comments

Neutral IX and root server launched at first PHNOG meeting in Manila

APNIC is pleased to be involved with two exciting milestones in the Philippines Internet history, which coincided with the first PHNOG (Philippines Network Operators Group) meeting, held in Manila in January, 2007.

The meeting, hosted by the Philippines Advanced Science Technology Institute, was the venue for the launch of a neutral Internet Exchange, and an I root server.

Philippine OpenIX

The Philippine OpenIX is the economy's first local common exchange point. Prior to its establishment in January, the four local telcos all operated their own Internet exchanges. The associated peering problems meant that most local Internet traffic was still routed internationally. A cooperative effort involving the Philippines government, PHNOG, local telcos and private enterprise has resulted in the establishment of a neutral Internet Exchange in Makati City. Amante Alvaran, APNIC Training Officer and founding member of PHNOG, had a large involvement with this project.

"This exchange solves many problems faced by Philippines ISPs, such as connectivity issues, high costs, difficulty in obtaining statistics, and restricted access to bandwidth and infrastructure," said Amante.

The concept of a neutral IX was first raised by PHNOG in June 2005. The idea was supported by the Advanced Science Technology Institute (the research arm of the Philippines government Department of Science and Technology - DOST), and the Commission on Information and Communications Technology (CICT). The exchange is co-located with Innove Communications, and is managed and operated by ASTI/DOST. Packet Clearing House, Cisco, and Consulintel have also assisted the project by providing infrastructure.

The Philippine OpenIX is a non-profit, membership-based organisation that is open to all. It is a layer 2 exchange, supporting 10/100/1000Base T, with BGP peering. The membership fee will be waived until December 31, 2007 and the cost will be determined by member consensus.

Root server

APNIC, working with ASTI/DOST and Autonomica, provided funding and technical support to enable the installation of the Philippines' first root server. The I root server will improve DNS stability and response time for Internet users in the region. The server was launched on 26 January, and APNIC and ASTI/DOST exchanged Memorandums of Understanding for the server's management.

▲ APNIC's Amante Alvaran, who was instrumental in informing PHNOG.

PHNOG

Philippines Network Operators Group (PHNOG) is a non-profit organisation established to promote cooperation between network operators in the Philippines.

Similar to other Network Operators Groups (NOGs), PHNOG's main objective is to provide a common forum for Internet technology information dissemination.

PHNOG aims is to enhance the Philippines' participation in the Internet community by enabling and encouraging its members to learn more about policies, network and system issues, and latest technology trends. The organisation also intends to heavily promote the use of IPv6.

In addition to holding two meetings each year, PHNOG's future plans include installing looking glass, network time protocol, and route servers; measuring network traffic and collecting/ reporting statistics; conducting training; and providing IPv6 transit services.

Philippine OpenIX: http://www.phopenix.net

PHNOG: http://www.phnog.org

Start
11:58 AM

First RP 'root server' now live, improves local Net traffic

By Erwin Oliva
INQUIRER.net
Last updated 04:58pm (Mla time) 06/17/2007

MANILA, Philippines -- The first Philippine root server or "i-root" server run by various non-profit organizations went live just after the May 14 elections, the project coordinator and technical adviser of this project told INQUIRER.net.

Hoping to improve local Internet traffic in the Philippines, the Philippine "i-root" is now part of the Philippine Internet Open Exchange or PHOpenIX network which was launched in January 2007.

The i-root is currently operated by Autonomica from Stockholm, Sweden.

The PHOpenIX is a joint project managed by Advance Science Technology Institute of the Department of Science and Technology, the Philippine Network Operators Group, and the Asia Pacific Network Information Center, which awarded the hosting of the root server.

First network to peer

Wilson Chua: A single failure point for the Philippine Internet?

TAS Editor / 5 days ago

A single failure point for the Philippine Internet?
by Wilson Chua
The Asian Spectator
9 June 2015

Helps us in bringing in equipment

Marco van den Berg (IRRI)

BGP Black Magic

BGP

- Border Gateway Protocol
- The internet is a network of networks, and BGP is the protocol used to exchange bits and bytes between networks
- You need an AS number (we can help here)
- You need a minimum of 256 IPv4 addresses
- /24 IPv4 block

Membership thru the years

- 2007 - 8
- 2008 - 1
- 2009 - 3
- 2010 - 2
- 2011 - 0
- 2012 - 0
- 2013 - 1
- 2014 - 11
- 2015 - 16

42 “directly peered” ASNs

http://www.phopenix.net/members

How to promote the IX

How to promote the IX

- Network trainings

Advanced BGP Training

July 25, 2014

ASTI Bldg. UP Technopark Complex
C.P. Garcia Ave. Diliman, Quezon City

APNIC

CAMPUS NETWORK DESIGN AND
SECURITY WORKSHOP
October 20 - 24, 2014
Advanced Science and Technology Institute
ASTI Bldg., UP TechnoPark Complex.,C.P. Garcia Ave.
Diliman, Quezon City
DOST -ASTI
NSRC
Google

ANDY
DALE

HAPPY BIRTHDAY
MYNOG

How to promote the IX

- Network trainings
- Network Operator Groups (NOG)

PhNOG
Philippine Network Operators Group

PhNOG
USPA

Update from APNIC
APNIC Regional Meeting, Manila
June 2015
Paul Wilson
Director General
APNIC

PHNOG 2015 &
APNIC Regional Meeting
Marco Polo Ortigas
15 June 2015
Organized by:
PhNOG
APNIC
addressing the Internet
MARCO POLO

How to promote the IX

- Network trainings
- Network Operator Groups (NOG)
- Look for the peering managers of the networks (or their closest equivalent)

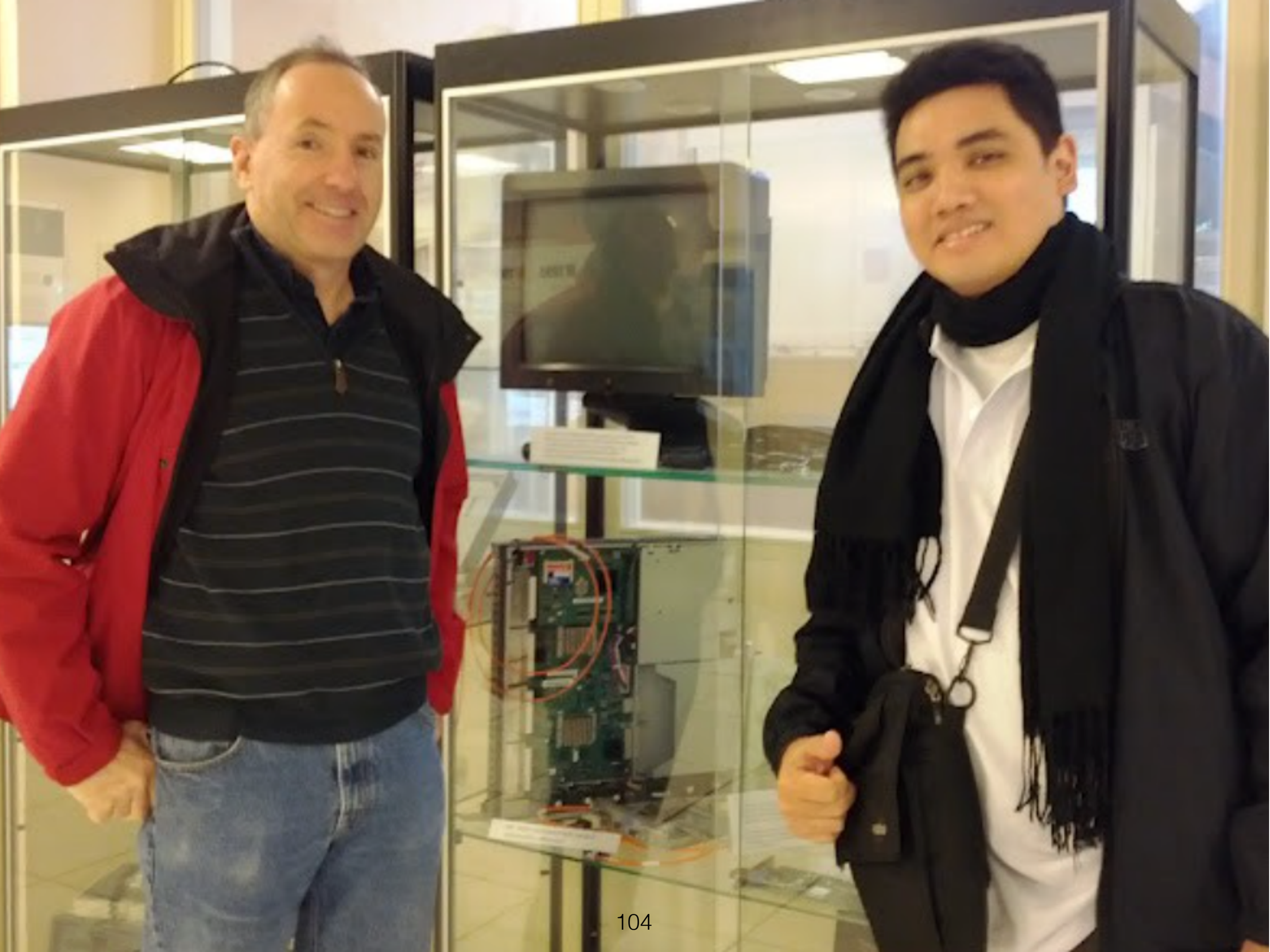
PeeringDB

- Global System Statistics

Total Peering Networks	7055
Total Public Exchange Points	542
Total Unique Public Exchange Presences	21549
Total Private Facilities	1670
Total Unique Private Facility Presences	12752

How to promote the IX

- Network trainings
- Network Operator Groups (NOG)
- Look for the peering managers of the networks (or their closest equivalent)
- Collaboration with other IXs



MiX
Philippine
Open
Internet
Exchange

Nepal Internet Exchange (NPIX)

Gaurab Raj Upadhaya

CEO/Tech Chair

gaurab@lahai.com

wg@npix.net.np

Che-Hoe Cheng
Che-Hoe Cheng
Bob Lau@Akamai
IRRI IT Services
wison chua

APNIC

Get IP Manage IP

IDSeries: An Open exchange: history of Indonesia's IXP

By Robbie Mitchell on 26 Aug 2015

Categories: Community, Tech matters

Tags: APJII, IDseries, Indonesia, ISP, IXPs

2 Comments

In early 2000s, Malaysia and the Philippines recognized the success of Indonesia's IXP and sought out Johar's help in creating an IXP for their country.

"Because I was involved in setting up all these IXPs, which are relatively similar, I've always played with the idea of connecting them all."

In 2014, Johar was able to recognize this concept when he first connected the Open IXP to the Philippines IXP and six months later Malaysia's IXP. He says there have been some technical problems but the results are

Johar Alam Rangkuti, Administrator of OpenIXP - Wikimedia Commons

https://blog.apnic.net/2015/08/26/an-open-exchange-history-of-indonesias-ixp/

http://www.slideshare.net/apnic/an-experiment-in-connecting-internet-exchanges-between-3-different-countries

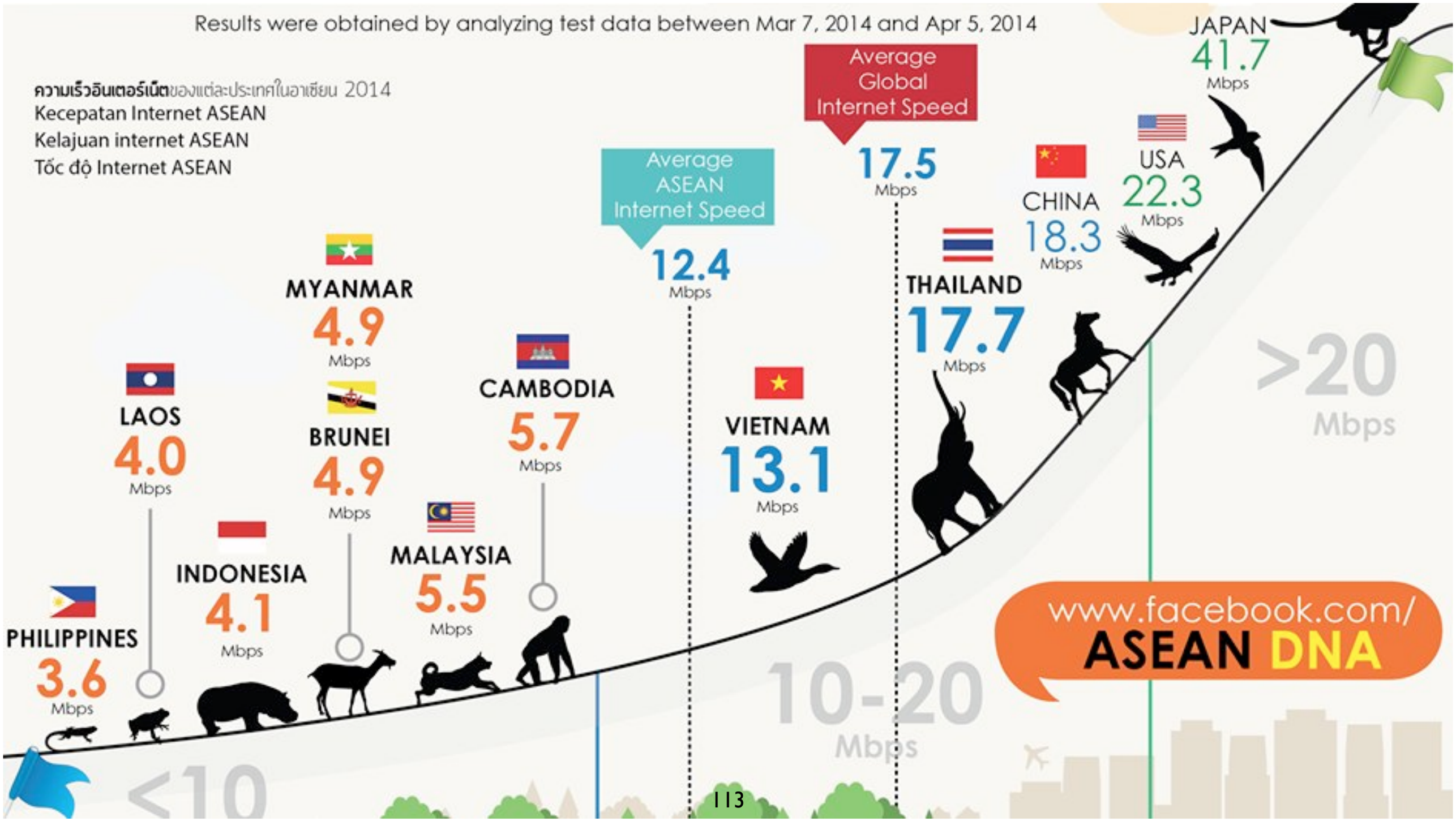
bkni

How to promote the IX

- Network trainings
- Network Operator Groups (NOG)
- Look for the peering managers of the networks (or their closest equivalent)Collaboration with other IXs
- Collaboration with other IXs
- Ask APNIC for the AS numbers in your territory, and check each and every WHOIS entry of each and every AS :-D

Having a Big Brother helps

“Perceived” current situation of PH internet



SciTech » Technology

Gov't urged to remedy slow PHL Internet; PLDT put to task

By BEA MONTENEGRO September 16, 2014 9:13pm

Recommend 20k Share 5773 Tweet 133 Email 3 ShareThis 8424 g+1 2

The Philippine government has been called upon to intervene in the sorry state of Philippine Internet infrastructure, with calls for public regulation of local Internet service providers (ISPs)—particularly local telco giant PLDT.

Why Internet is slow in PH

By Atom Araullo, ABS-CBN News
Posted at 09/16/2014 3:23 PM

Pressure on PLDT to solve PH's slow Internet

At a Senate hearing on the cause of slow Internet connection in the Philippines, discussions focus on mandatory IP peering, a policy that government can't implement because of protests from the telco player

Gov't mulls making broadband Internet as basic service

Posted on September 17, 2014

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In order to exercise its power to regulate the telecommunications industry and consequently speed up the "slow and expensive" Internet connection in the country, the government is proposing to reclassify Internet broadband as a basic service rather than a mere value-added service.

PUBLIC CONSULTATION WITH NTC AND STAKEHOLDERS

TOPIC:
Improving Quality
Standard of **#PHInternet**

WHEN:
November 7, 2014
2:00 pm

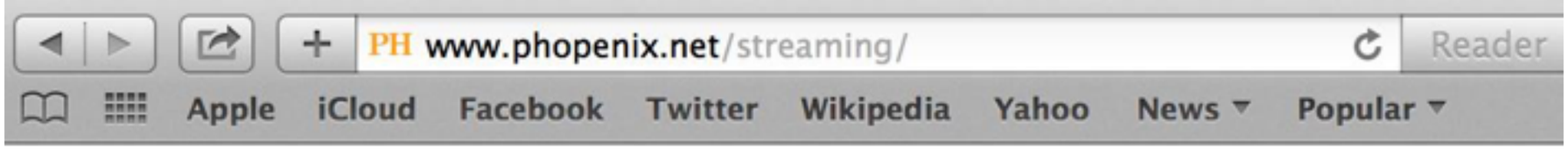
WHERE:
NTC Head Office, NTC Bldg,
BIR Road, East Triangle,
Diliman, Quezon City

SEND YOUR QUESTIONS & SUGGESTIONS IN THE COMMENT SECTION!
Livestreaming: *http://www.phopenix.net/streaming/*

Photo: www.ncta.com

#PHInternet

OFFICE OF SENATOR BAM AQUINO
Bida Ang Mamamayan



NTC Public Hearing

PREGINET Broadcaster

Improving Quality Standard of Philippine Internet

November 7, 2014

2:00 PM

Senate of the Philippines

16th Congress

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Committee on Trade, Commerce and Entrepreneurship joint with Public Services

GRACE IN MONO

PH regulator to measure internet service performance

June 08, 2015

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The National Telecommunications Commission is close to issuing a memorandum order that will update a previous issuance on minimum speed of broadband connections. But this time, the policy is targeted at measuring internet quality of service over setting minimum standards.

Chiz calls on NTC to produce new guidelines for Internet speed, cost

Posted on September 14, 2015

Tweet 4 G+1 +5 Pin it Like 32

Instead of merely testing Internet speeds, the National Telecommunications Commission (NTC) should conduct an audit to assess the coverage and quality of service of telecommunications companies (telcos) to pressure them into making Internet access faster and cheaper, Sen. Francis "Chiz" Escudero said.

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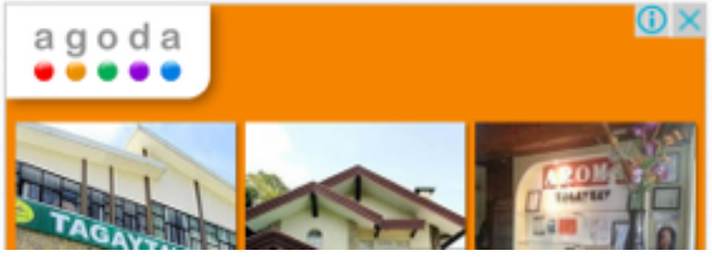

Grace Poe to youth: Use ‘slow’ internet to call out govt wrongdoings, rally behind FOI bill

August 12, 2015 4:49pm

Tags: gracepoe, internet, foibill

By ROSE-AN JESSICA DIOQUINO, GMA News

Even after hitting the slow pace of internet connection in the country, Sen. Grace Poe on Wednesday called on the youth to use it and their social media "power" to point out the government's failures and triumphs.

At the International Youth Day celebration of the National Youth Commission (NYC), Poe said, "The world is changing with unprecedented speed. Ang mabagal lang ang internet natin."

She pointed out that 45 percent of the world's internet users are below the age of 25 years old.

"In many countries, they have undergone major socio-political developments, young people are shown to be a part, if not the leading movement, for change and challenging the social power structures," Poe said in her speech.

Bongbong: Faster Internet should be priority of next administration

Technology from Newsbytes.ph August 3, 2015 - 08:59 AM

Article Highlights:

- Wading into the ICT space, Sen. Ferdinand "Bongbong" R. Marcos Jr. said faster Internet speeds and robust telecommunications systems should be a priority of the next administration.
- With these changes in global commerce, he said the next administration should adopt a mindset where telecommunications, especially the Internet, is part of the Philippines' essential infrastructure.
- Internet metrics provider Ookla found that the Philippines averaged a download speed of just 3.64 megabytes per second (Mbps), which ranked 176th out of 202 countries worldwide.

PNoy: Too many subscribers, too few services cause of slow Internet speed in PH

Posted on September 8, 2015 by Marcus V

Photo Credit: Philippine Daily Inquirer

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- **Gov't to investigate snail-paced Internet speed in PH**
- **Cause could be oversubscribing, little expansion of telco services**
- **No need to create separate department, DOST can handle the problem**

MANILA, Philippines – Amid the outcry over the country's excruciatingly slow Internet speed, President Benigno Aquino said he has directed both the Department of Science and Technology (DOST) and the National Telecommunications Commission (NTC) to look into whether telco companies are over-subscribing internet users without expanding their services.

Output of big brother

Updates!

Installed a switch at PLDT Vitro

Start : Sept 7, 2015

Ends : Sept 6, 2017

Updates!

Installed a switch at Cebu City

This is around 580 kilometers from Manila

Manila, Metro Manila, Philippines

Cebu City, Cebu, Philippines

Leave now

OPTIONS

via Strong Republic Nautical Hwy — 20 h 11 min

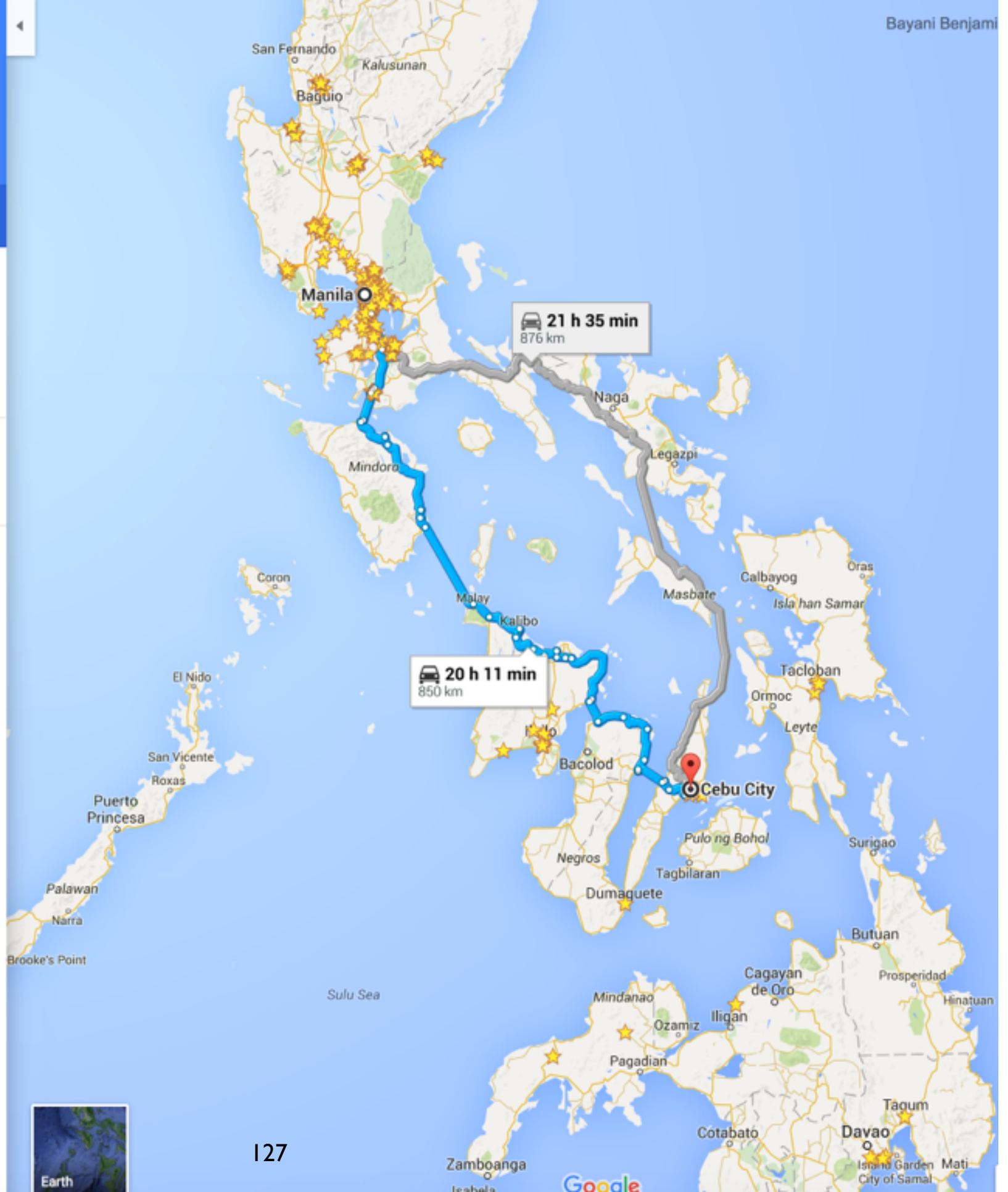
20 h 11 min without traffic — 850 km

This route includes a ferry.

DETAILS

via Pan - Philippine Hwy/AH26 — 21 h 35 min

21 h 35 min without traffic — 876 km



cebu-core-rtr.pregi.net
Cisco 2800 Series

Moving forward

- More networks at the Manila switches
- More content (CDNs)
- Setup internet exchanges outside of Manila (i.e. Cebu)
- IP blocks for expansion
- Lobby for donation of more equipment
- More network training
- Become a member of the APIX Assoc.
- BGP communities soon

One guy or one organization will have a difficult time in growing an internet exchange.

They need the buy-in of their local community for it to grow.

http://www.phopenix.net/pacnog2015.pdf

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