

# Caribbean connectivity

## Caribbean – Fortaleza ?

AMS-IX April 2023



# AMS-IX - our mission



Build better communities by building better Internet,  
facilitate open and safe interconnection  
between everyone and anything



# AMS-IX global presence





# NUESTROS ASOCIADOS

25

MIEMBROS

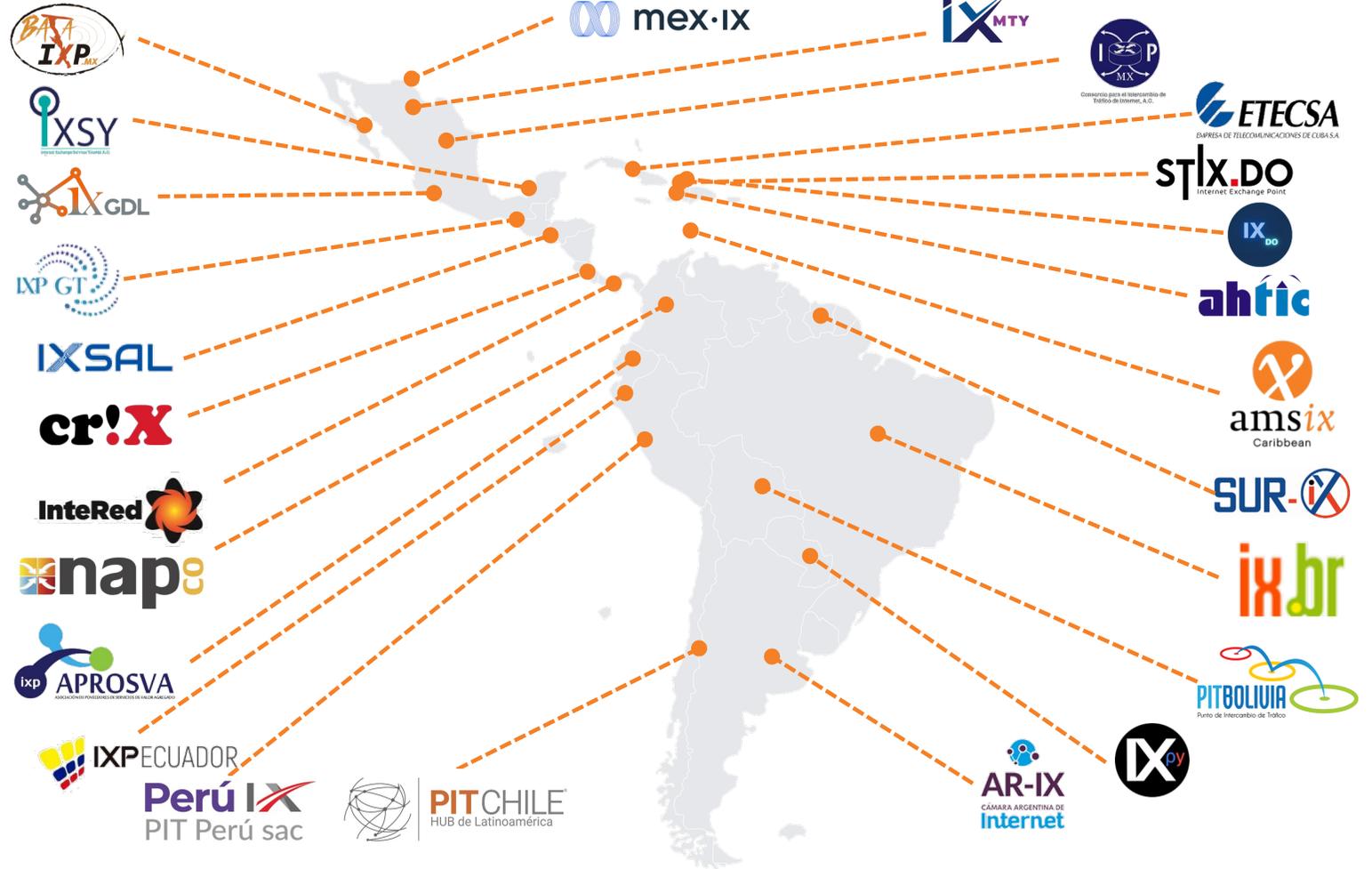
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SITIOS DE IX

1

ORGANIZACIÓN

SPONSORS



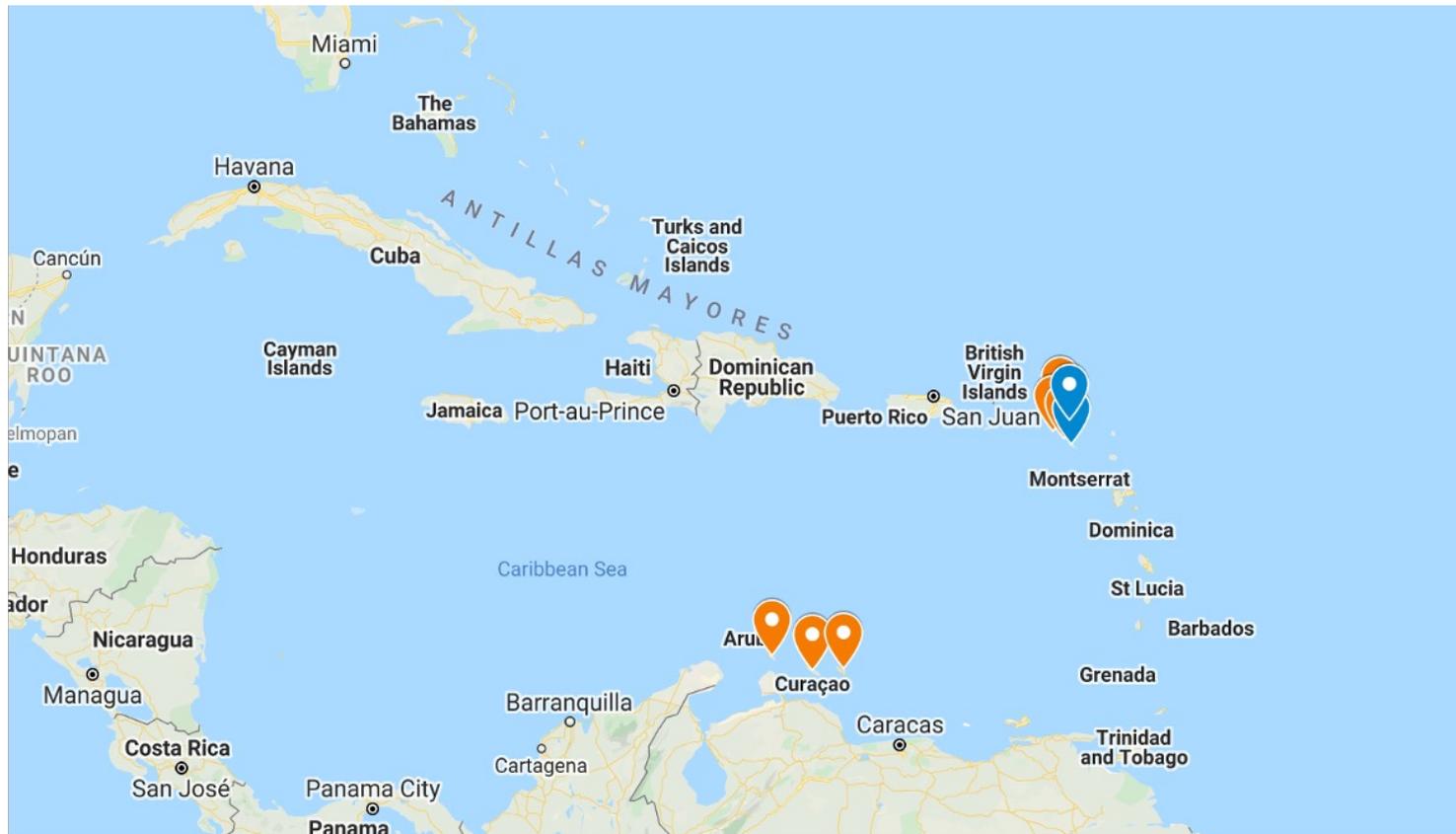
# Caribbean specifics



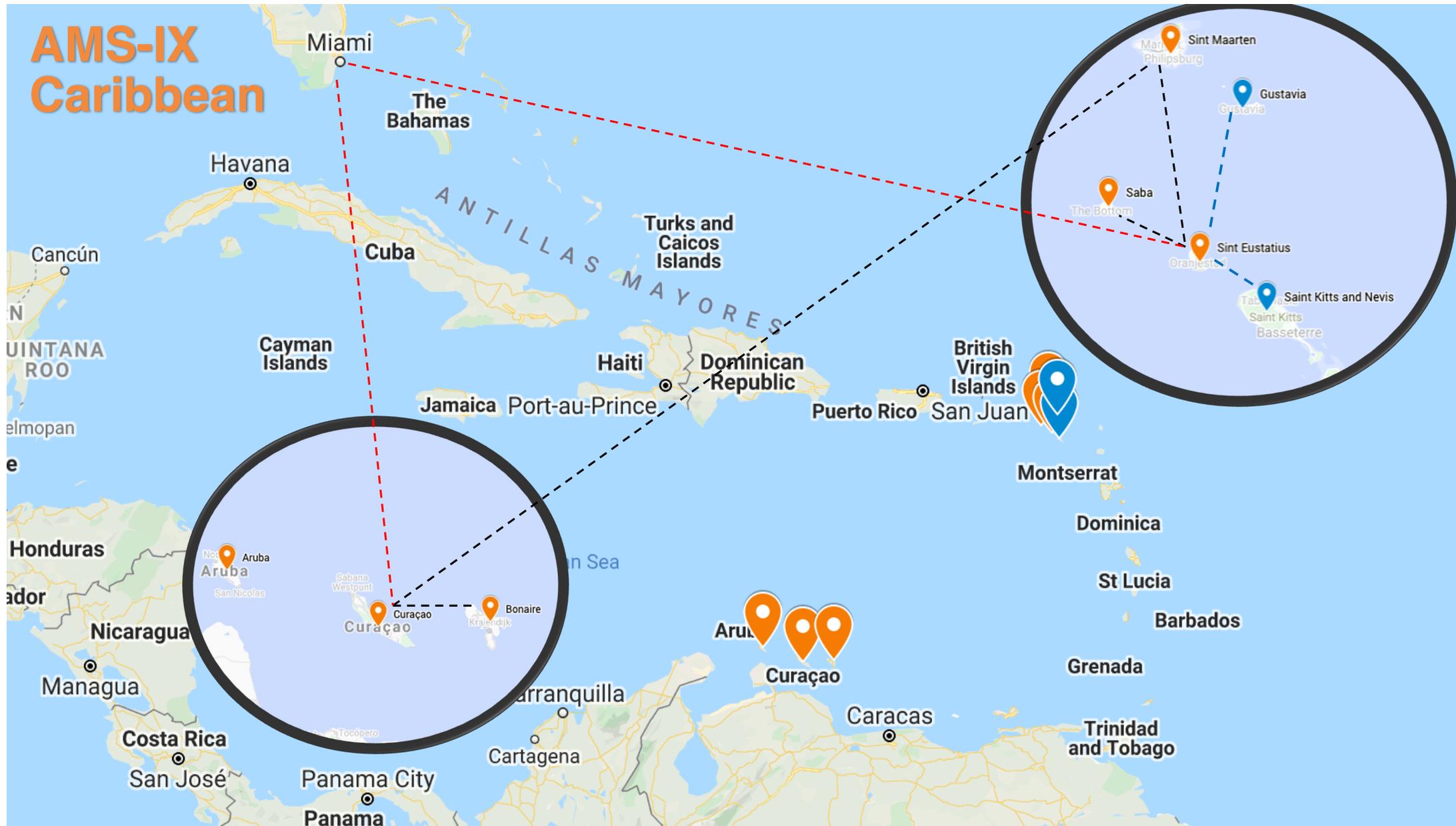
- a population of about 44 million; 32 million tourist yearly
- about 31 island markets
- about 30 submarine cable systems
- 463 ASN's registered in the Caribbean, issued by Lacnic, Ripe and Arin. Adding international ASN's.
- Internet Exchanges in 9 island markets and growing
- Limited public data on tier level type and number of datacentres in the Caribbean



# The Caribbean geographics



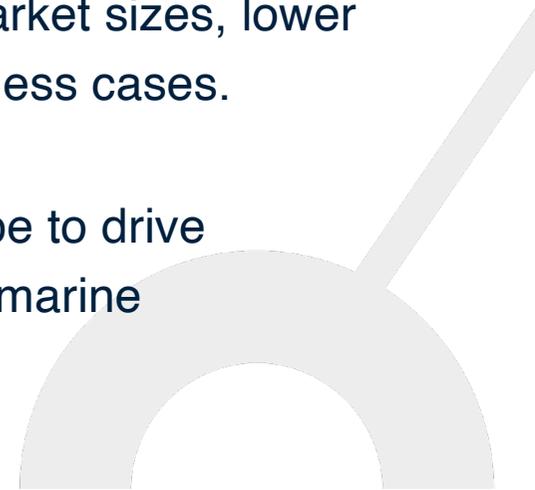
# AMS-IX Caribbean



# Caribbean submarine connectivity



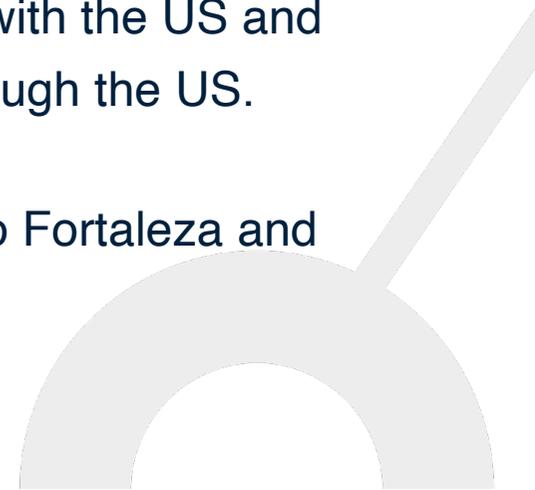
- The Caribbean has a high dependency on submarine cables for the internet entering the individual Caribbean countries.
- A critical element in the Caribbean digital infrastructure for reaching the international internet hubs and handling its traffic.
- Due to the natural geographic spread, fragmented landscape and market sizes, lower traffic volumes, less lucrative routes and financially challenging business cases.
- Initiative to establish a Caribbean Datacenter Association with a scope to drive regional consolidation of traffic volumes, datacenters and critical submarine connectivity availability, accessibility and affordability.



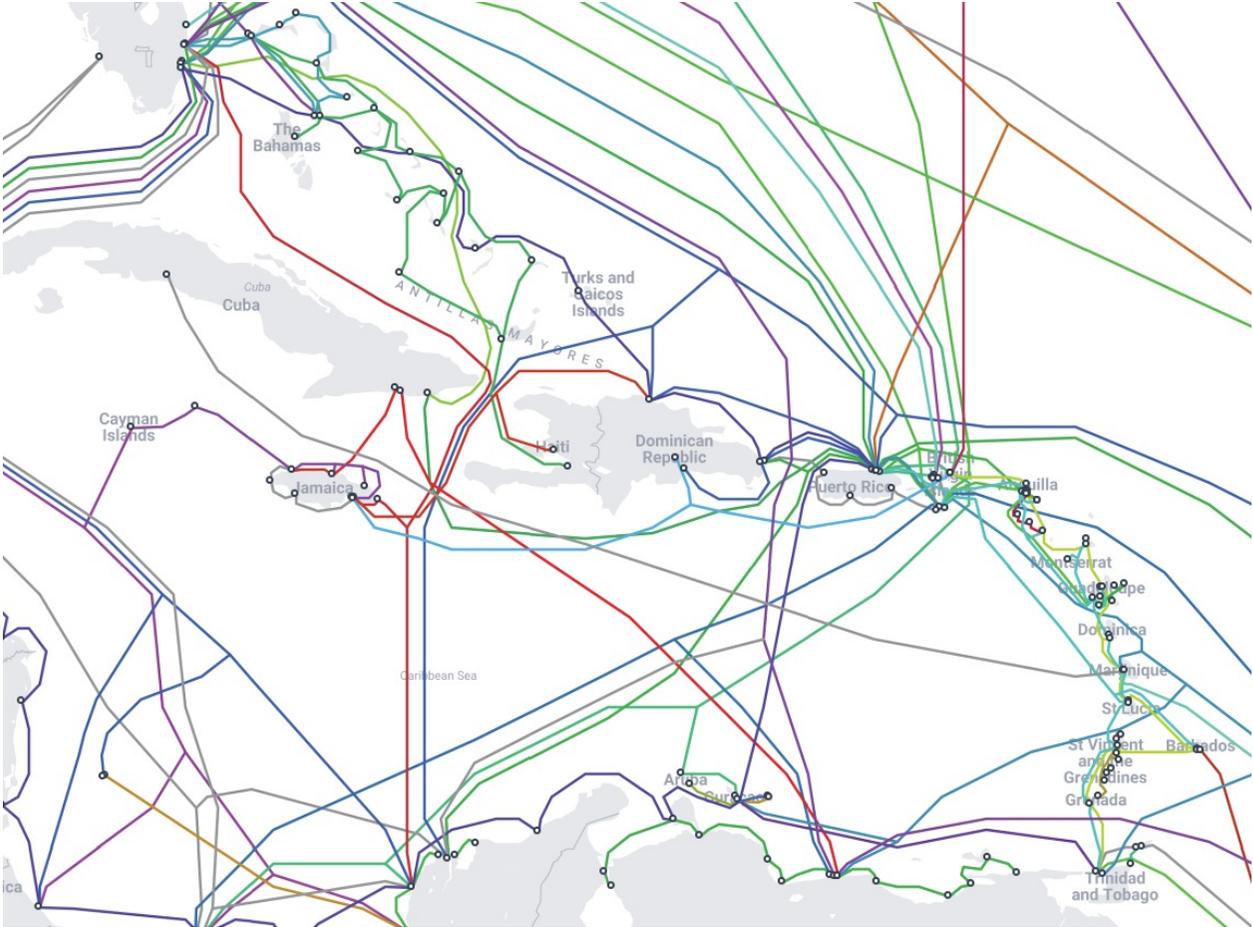
# Caribbean submarine connectivity



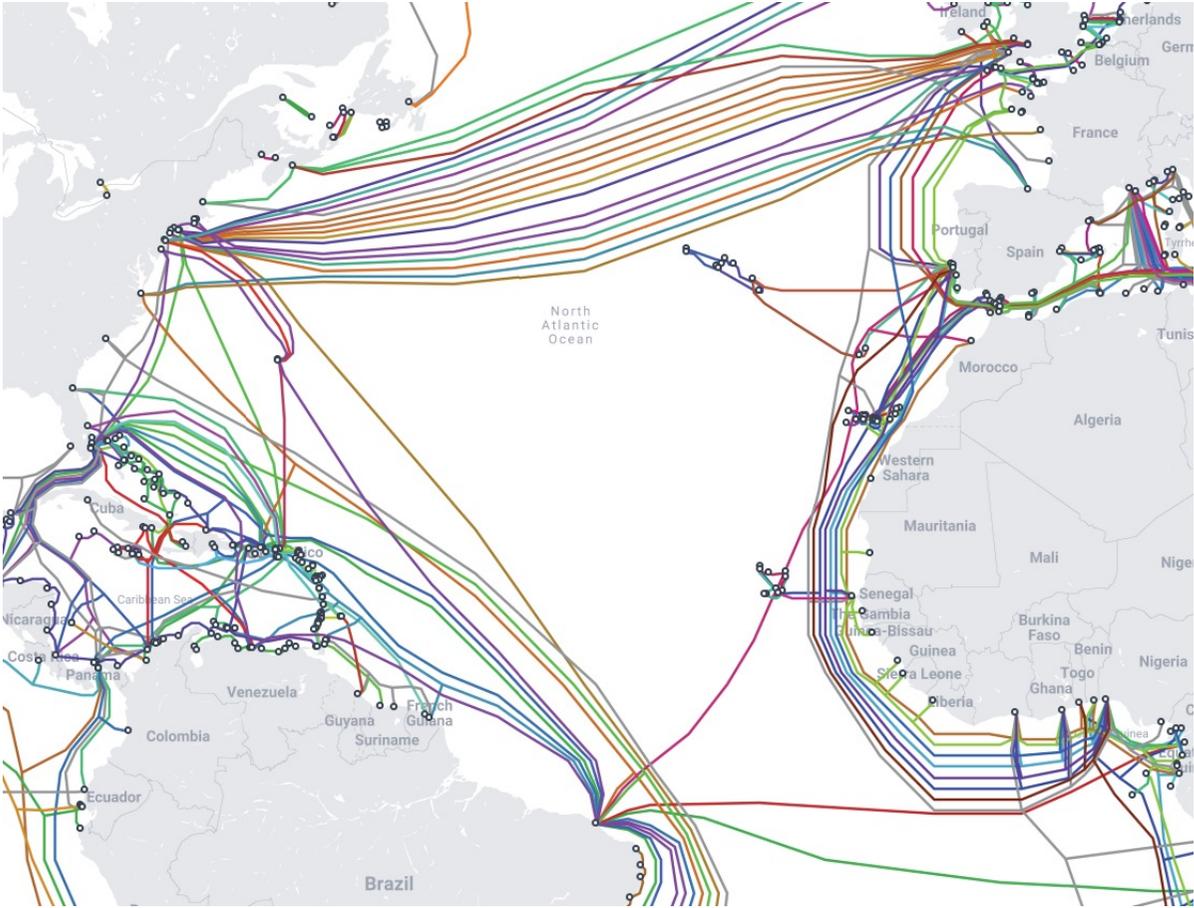
- About 30 submarine cable systems, regional and international.
- Regional resiliency and diversity. Limited on international systems
- The internet traffic growth is driving the growth of the Caribbean lit capacity instead of new builds.
- The far-out majority of the Caribbean internet traffic is "northbound" with the US and Europe (The Netherlands, France, Spain, Portugal, UK). Routed through the US.
- There is an upcoming market demand to route traffic "southbound" to Fortaleza and Europe.



# Caribbean submarine connectivity



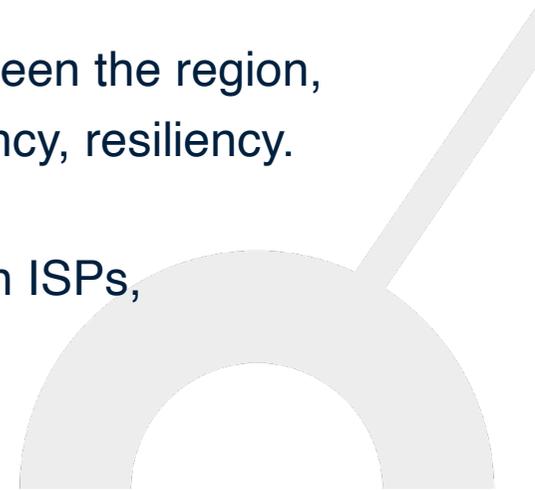
# Caribbean submarine connectivity



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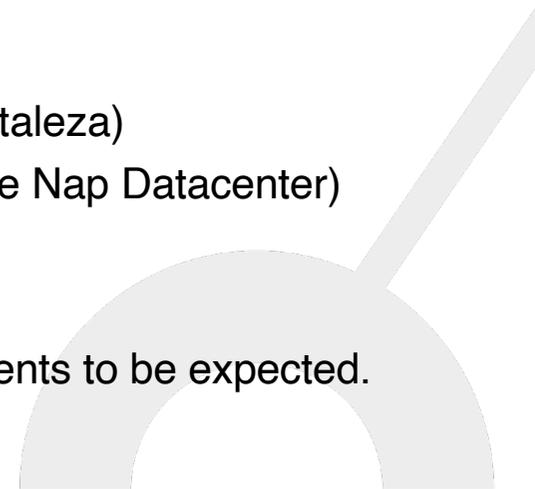
- There is a market upcoming demand to route Caribbean traffic “southbound” to Fortaleza and Europe.
- Not so much from a latency perspective
- Creates a valuable geographically new and redundant route in the existing network of Caribbean subsea cables connectivity
- It establishes a alternative transatlantic connectivity opportunity between the region, Fortaleza and European countries digital hubs. Also adding redundancy, resiliency.
- It also creates the opportunity to connect the Brazilian and Caribbean ISPs, datacenters and Internet Exchanges. Ej. AMS-IX and IX.br



# Caribbean submarine connectivity



- Many Caribbean island markets and Fortaleza can connect through existing submarine cables.
- The Caribbean and Fortaleza connections are through USA Puerto Rico, USVI St Croix, DR, Curacao and T&T.
- Main Caribbean hub for connectivity between Fortaleza and the Caribbean is USA Puerto Rico
- The submarine cable with most Caribbean connections to Fortaleza is the Americas-II. RFS 2000.  
Future plans ?
- Curacao:
  - 7 submarine cables (including connectivity on the Americas-II Curacao – Fortaleza)
  - 2 datacenters (Tier 3 E-commerce Park Curacao; Tier IV CTEX and now Blue Nap Datacenter)
  - Internet Exchange : 1 (AMS-IX)
  - **Focus on becoming Europe – Latam connectivity hub**
  - Geopolitical and connectivity delayed developments. Connectivity developments to be expected.



# Caribbean – Fortaleza - Europe

## Obrigado !

AMS-IX April 2023

