

# GLOBAL INTERNET HUB

CONVERGENCE 2023

What's Driving the Race to Build Global Digital Infrastructure

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**interGlobix**  
DATA CENTER & CONNECTIVITY SOLUTIONS

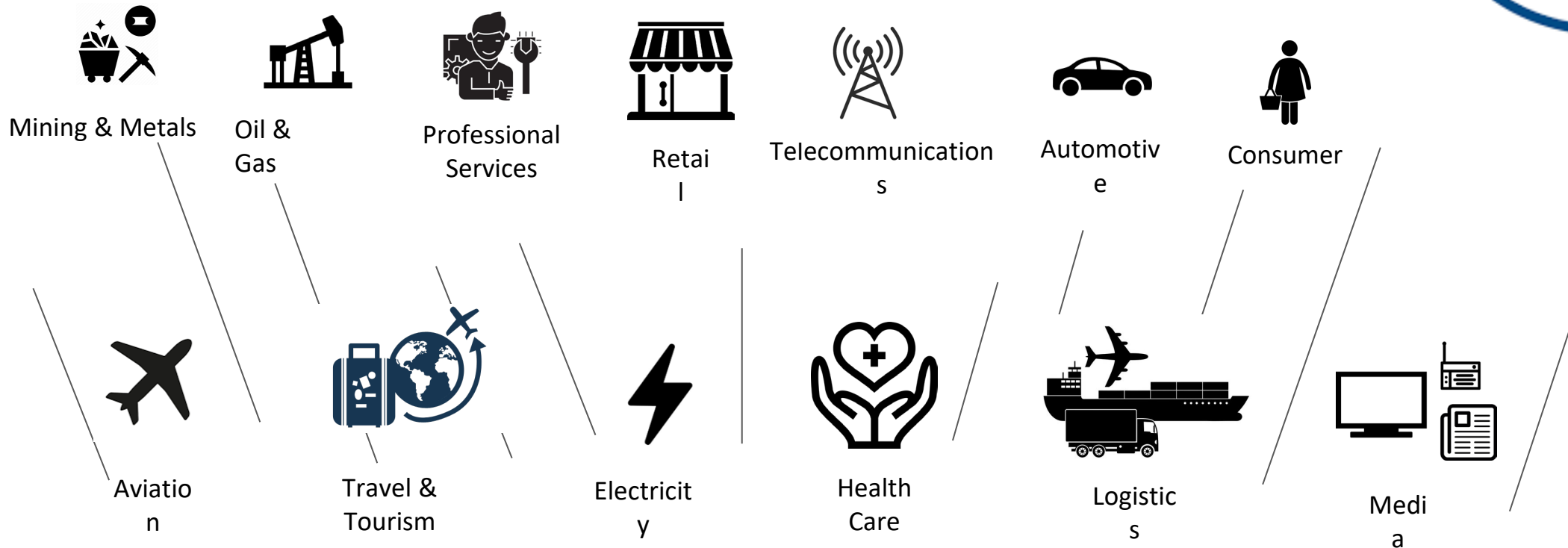
# A Data-Driven World

- **Each day** 2.5 quintillion bytes of data created (1 quintillion = 1 million terabytes = 1 billion gigabytes)  
**700 TB of data per minute generated**
- Connected devices
  - 2018: 22 billion
  - 2025: 38 billion
  - 2030: 50 billion
- Data Consumption
  - 2010, 2 zettabytes
  - 2018, 33 zettabytes
  - 2021, 74 zettabytes
  - 2024, 149 zettabytes
- 8,000 data centers globally
  - US: 5,375
  - Germany: 522
  - UK: 517
- By 2023, data center industry: **\$174B**
- **90%** of all the world's data was created in the last **three years**

1TB of hard drive; one billion 1TB = 1ZB

# The \$100 Trillion Impact

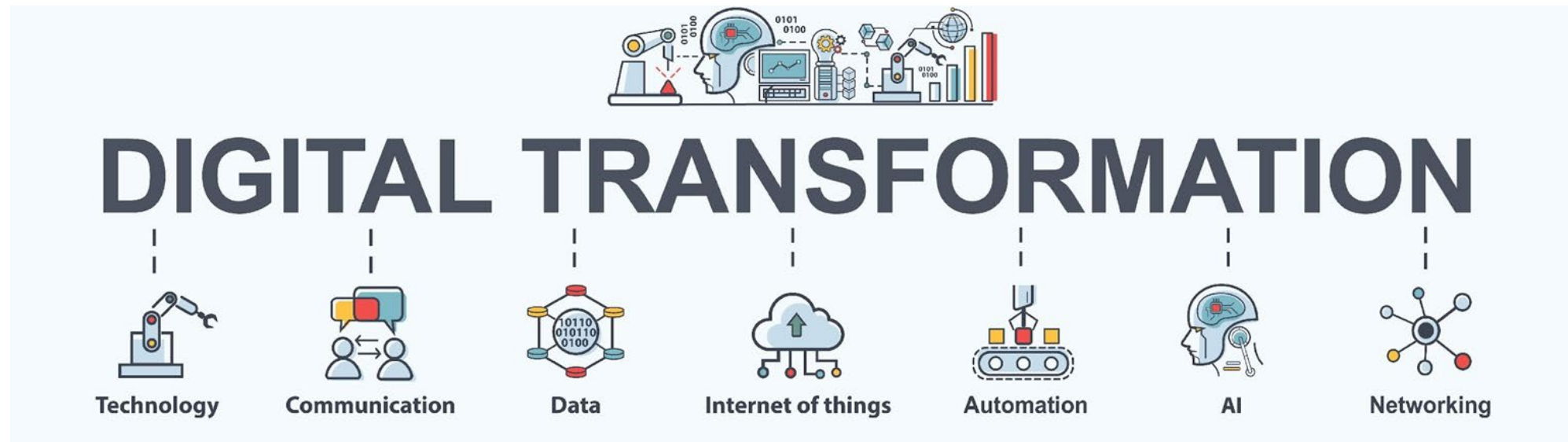
- The combined value – to society and industry – of **digital transformation across** industries could be greater than \$100 trillion over the next 10 years





# Digitalization of Everything

- **Digital transformation** will affect every industry
- Medicine, Agriculture, and Manufacturing: most impacted
- **Digital infrastructure** is the **fourth utility**
- Every business is a **digital business**—driving the **digital economy**



# Convergence of Digital Infrastructure

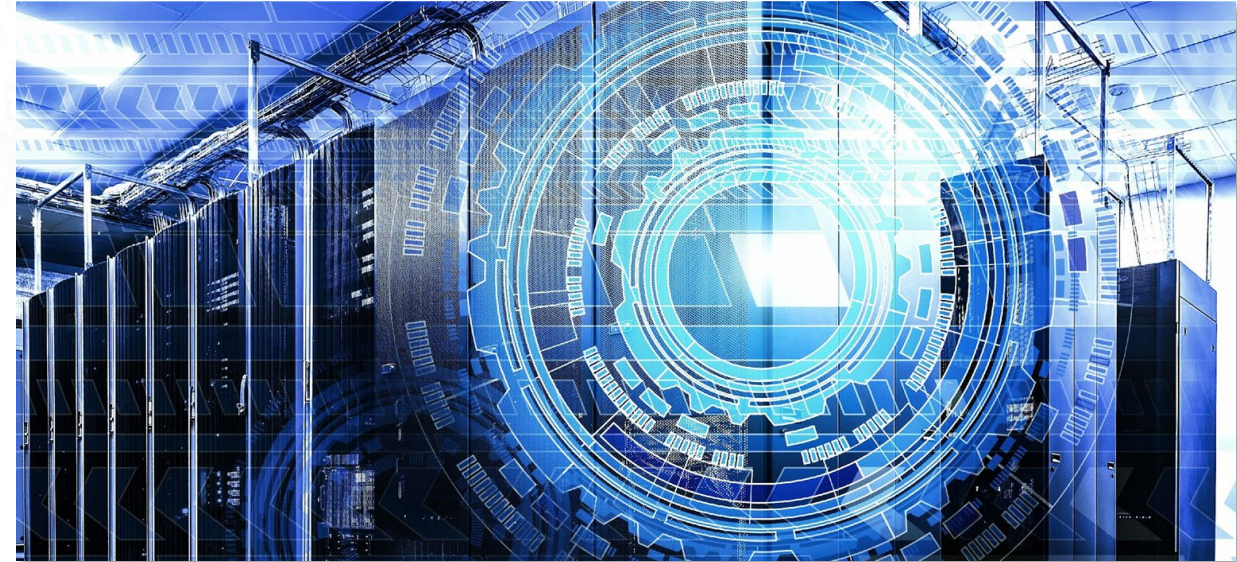
- Digital Infrastructure is the foundation of the **digital economy**
- Connectivity enablement
- Physical infrastructure:
  - ✓ Data Centers
  - ✓ Macro Towers
  - ✓ Small Cells
  - ✓ Fiber Optic Cables (Terrestrial)
  - ✓ Subsea Cables
  - ✓ Internet Exchange Points (IXPs)





# Data Centers: Engines of the Digital Economy

- **Global Data Centers** 2019: 416 terawatts or **3%** of world's electricity, nearly 40% more than UK (expected to be **12%** by 2030)
- **Carbon Neutral:** Net zero carbon dioxide emissions
- **Carbon Negative:** Reduction of carbon footprint to less than neutral
- **EU** data centers to be carbon neutral by 2030
- **Dominion:** 2.6 GW off-shore wind (660K homes), 16 GW solar project (4M homes); **NetZero by 2050**
- **Multi-Story Data Centers** maximizing FAR



DIGITAL REALTY








EQUINIX



# Mega Data Center Deals

 ← \$15 Billion —   


 ← \$11 Billion —   


 ← \$10 Billion — 

 ← \$10.1 Billion —



 ← \$8.4 Billion —



 ← \$8 Billion —

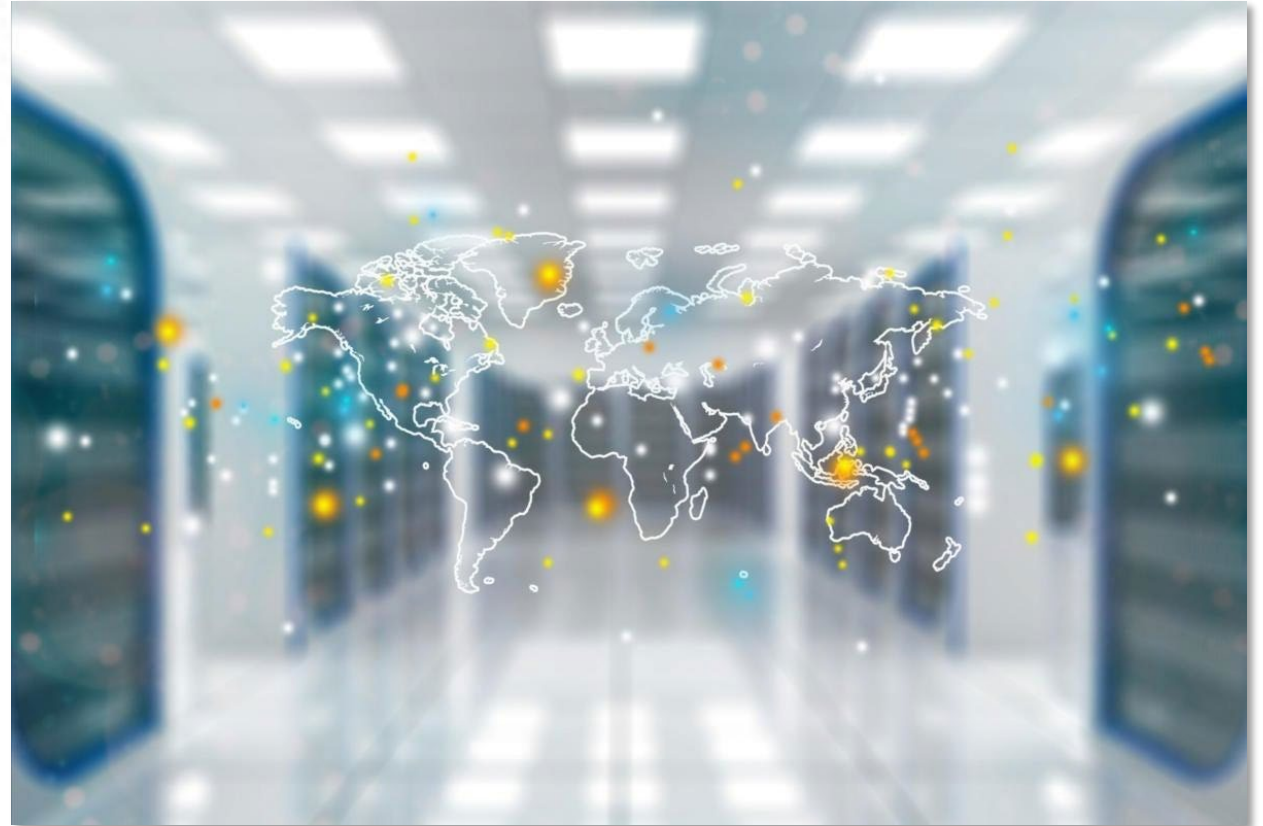


 ← \$7.6 Billion —



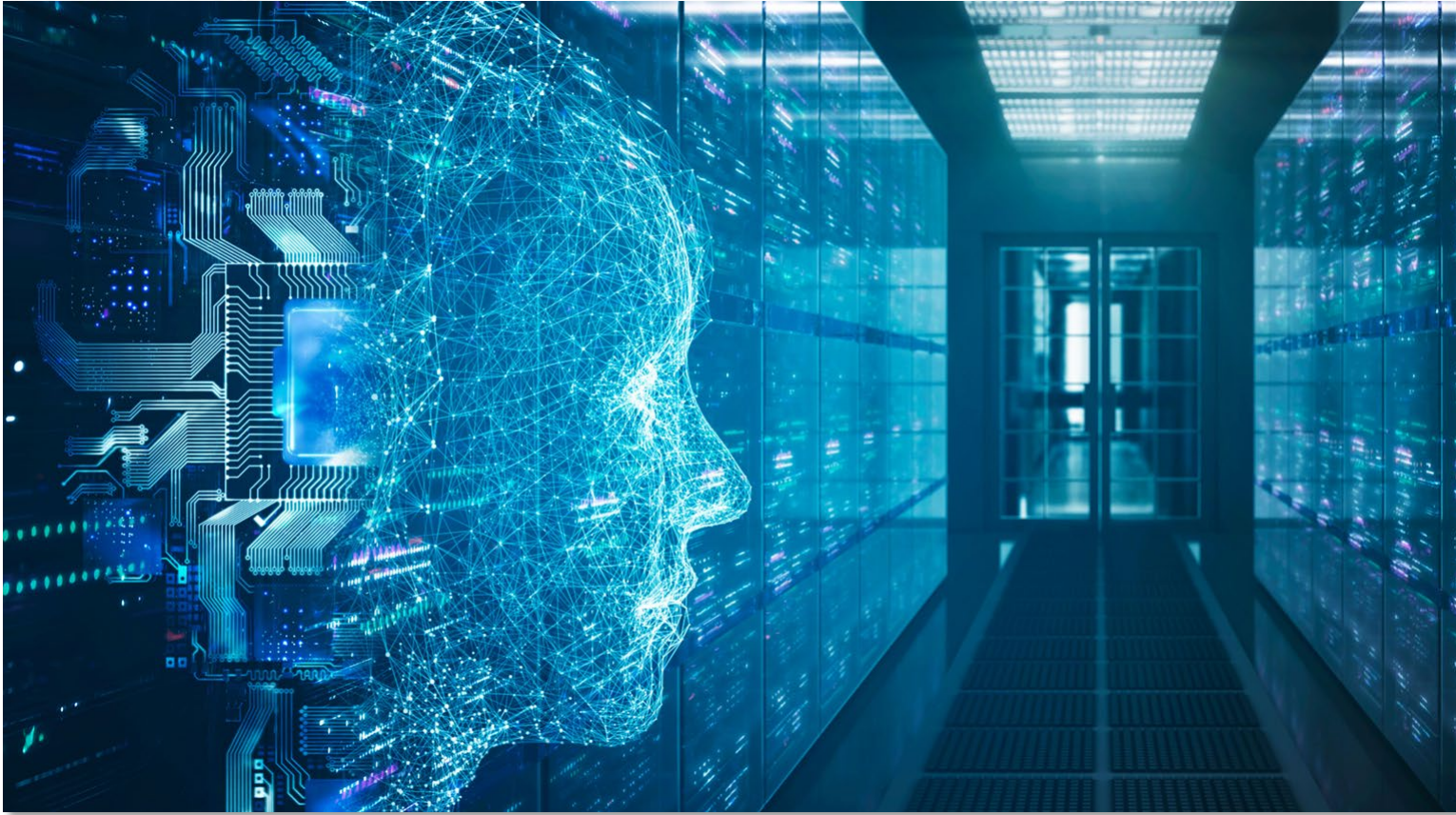
# Macro Data Center Trends

- North America at capacity
- High demand, low vacancy (2.88%)
- Price increase 5-20%
- Hyperscalers driving demand (80%)
- Constraints in power, land
- Growth markets—
  - LATAM (Mexico, Brazil, Chile, Colombia)
  - Nordics (Sweden, Denmark, Norway)
  - Asia (Malaysia, Indonesia, India, Vietnam, Philippines)





# AI: 'Second Boom' 'Gold Rush' of Data Centers



- Energy consumption 200-300kW per cabinet
- New MEP designs (modular)
- Sustainability & Greener Data Centers
- 12% increase in energy consumption by 2030
- By 2026, global spending on AI \$301 b, 26.5%, CAGR\*

\*IDC



# Economic Impact of Data Centers

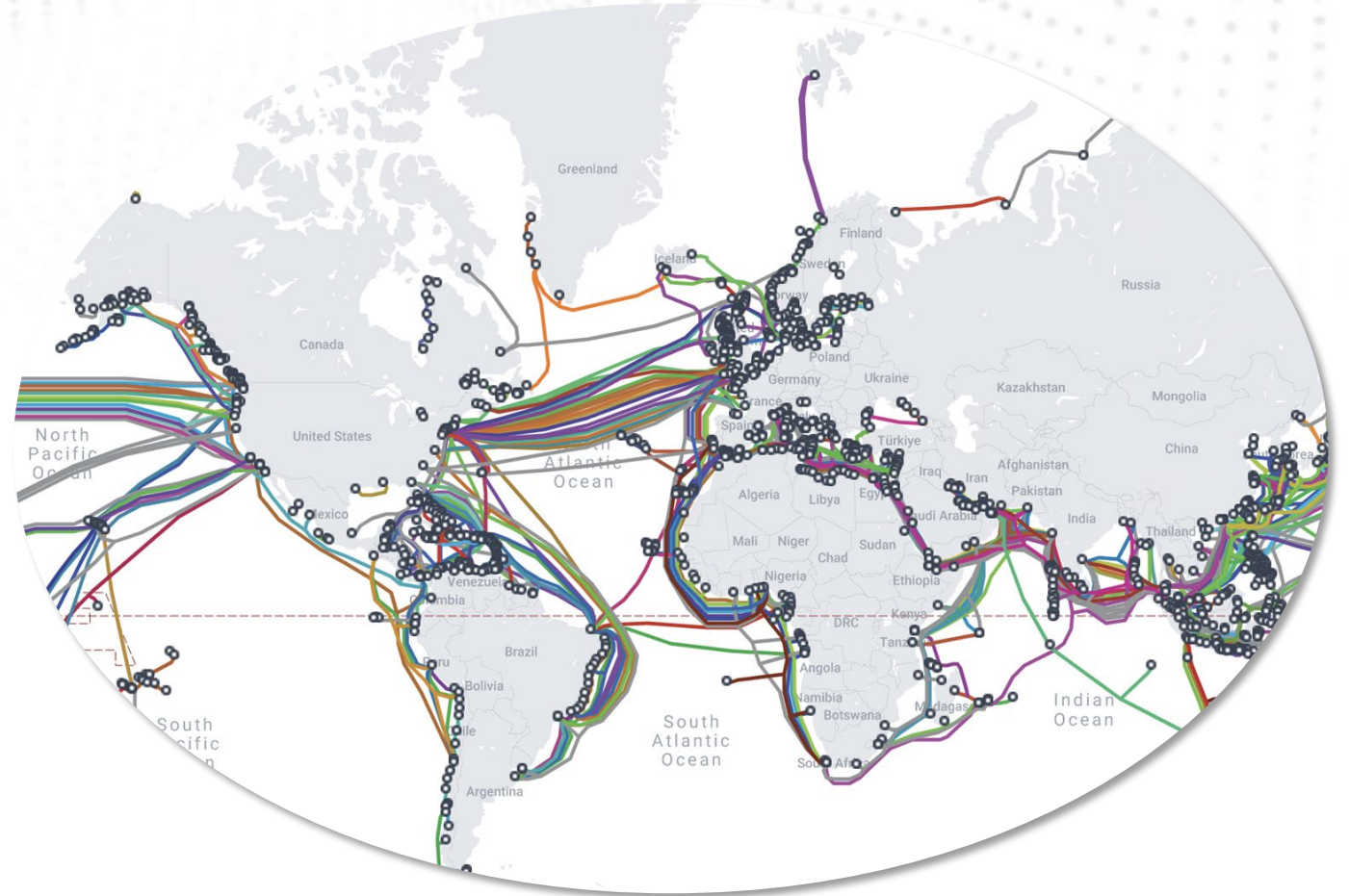
- US Chamber of Commerce: \$32.5 million/year
- US Data Center Industry Impact (2017-2022)\*
  - 2.9 to 3.5M annual jobs
  - \$209 to \$294B annual labor income
  - \$355 to \$486B in annual GDP
  - \$66.2 to \$99.6B Government Finances



\*PwC report | Economic, Environmental, and Social Impacts of Data Center in the United States

# Subsea Cables

- 99.7% of all data on subsea
- **Investments in Subsea**
  - 2016-2020: \$13.8B | 107 cables
  - 2021-2023: \$8B
  - 2024-2025: \$10B
- Last 3 years: One-fourth of all cables
- US: 88 cables; 17 new 2022-2024
- \$10 Trillion+ daily transactions
- Hyperscalers in Subsea



160+ years | 1.4M+ kms

550+ cables | 1,400+ Cable Landing Stations



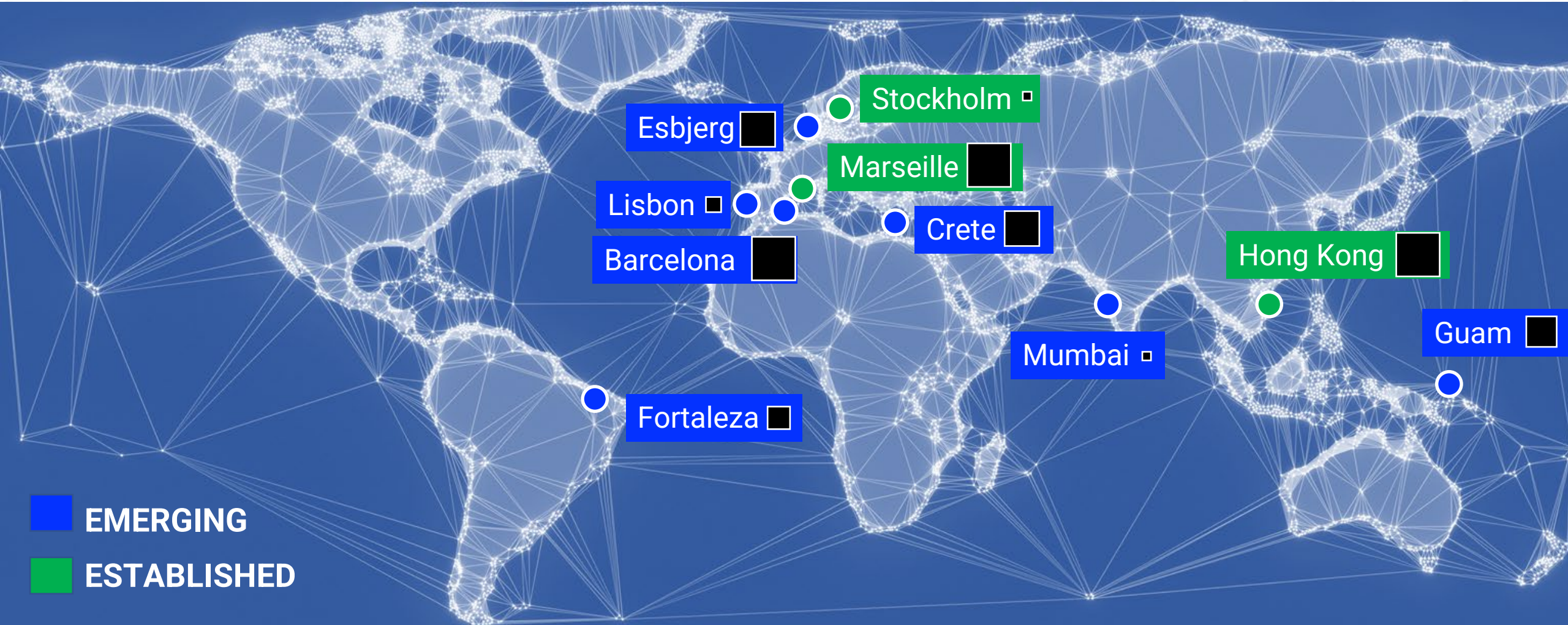


# Global Internet Hubs





# Digital Infrastructure Collaboration Ranking





# RVA-757 Megaregion





# Thank You!

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