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AIWORLD CONGRESS2026

Providing AI-Ready Data at Scale

How to Overcome Data Scarcity

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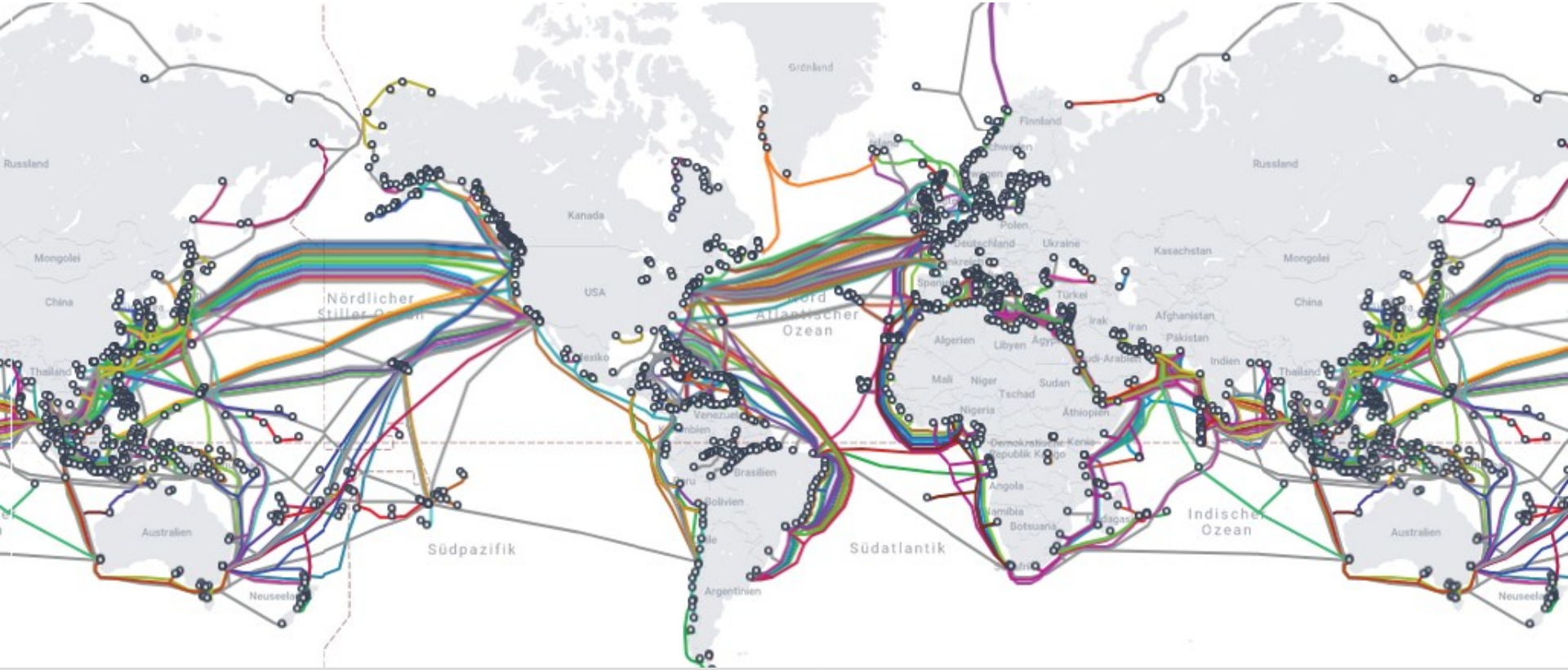


ROI: “Claude & Friends”, Hungry for AI-Ready Data

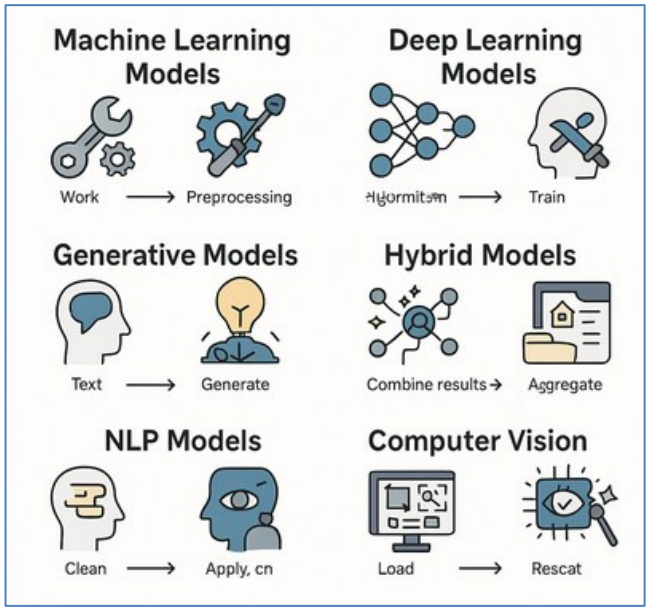
McKinsey: Trillions of USD are committed to AI.



Huge investments into AI Data Centers (DCs) and AI Hardware

No Data, No AI.

DataVaccinator provides AI-Ready Data at Scale, on Demand, in and across Organizations and Jurisdictions, regionally and globally.



Huge investments into AI Software (AI Models, Tools)

“Dealing with data scarcity is the biggest challenge faced by Artificial Intelligence (AI)” Tech Science Press

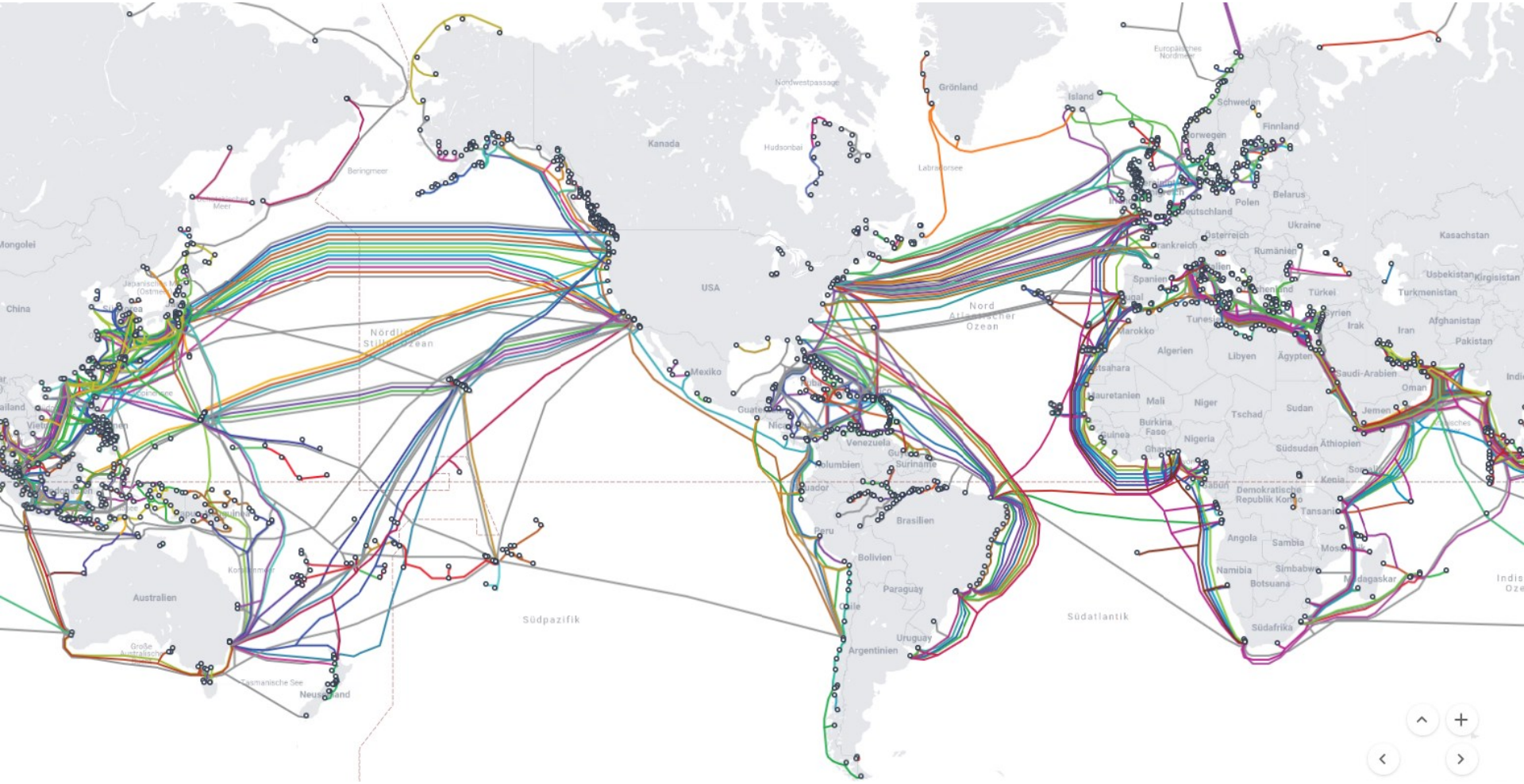
AI's Hunger for Data - Feeding the insatiable Data Zoo

Not just Claude & Gemini …. also You and Me and Bobby McGee



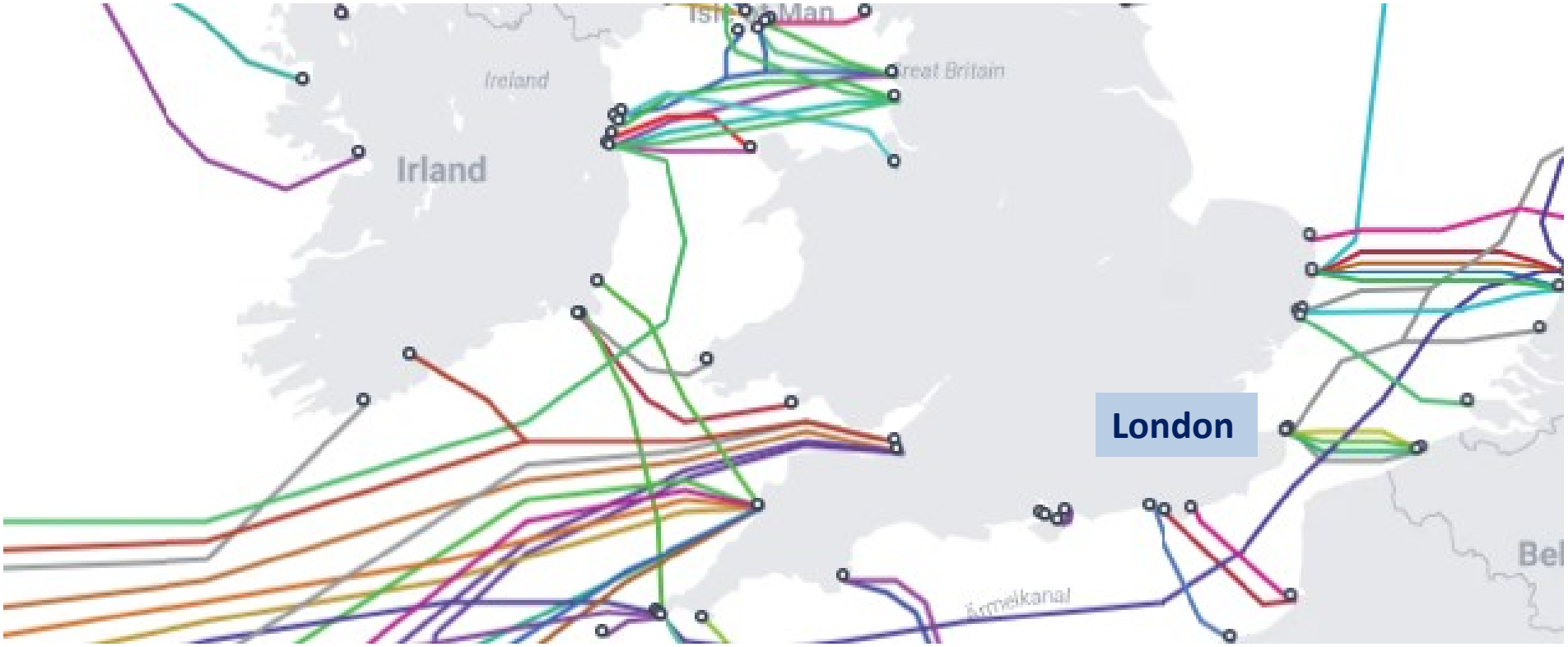
Figure: https://www.linkedin.com/pulse/ais-hunger-games-lucrative-data-market-exploding-feed-insatiable-9a4ie/

No Connectivity – No Data



Source: https://www.submarinecablemap.com/ 23 Nov 2026

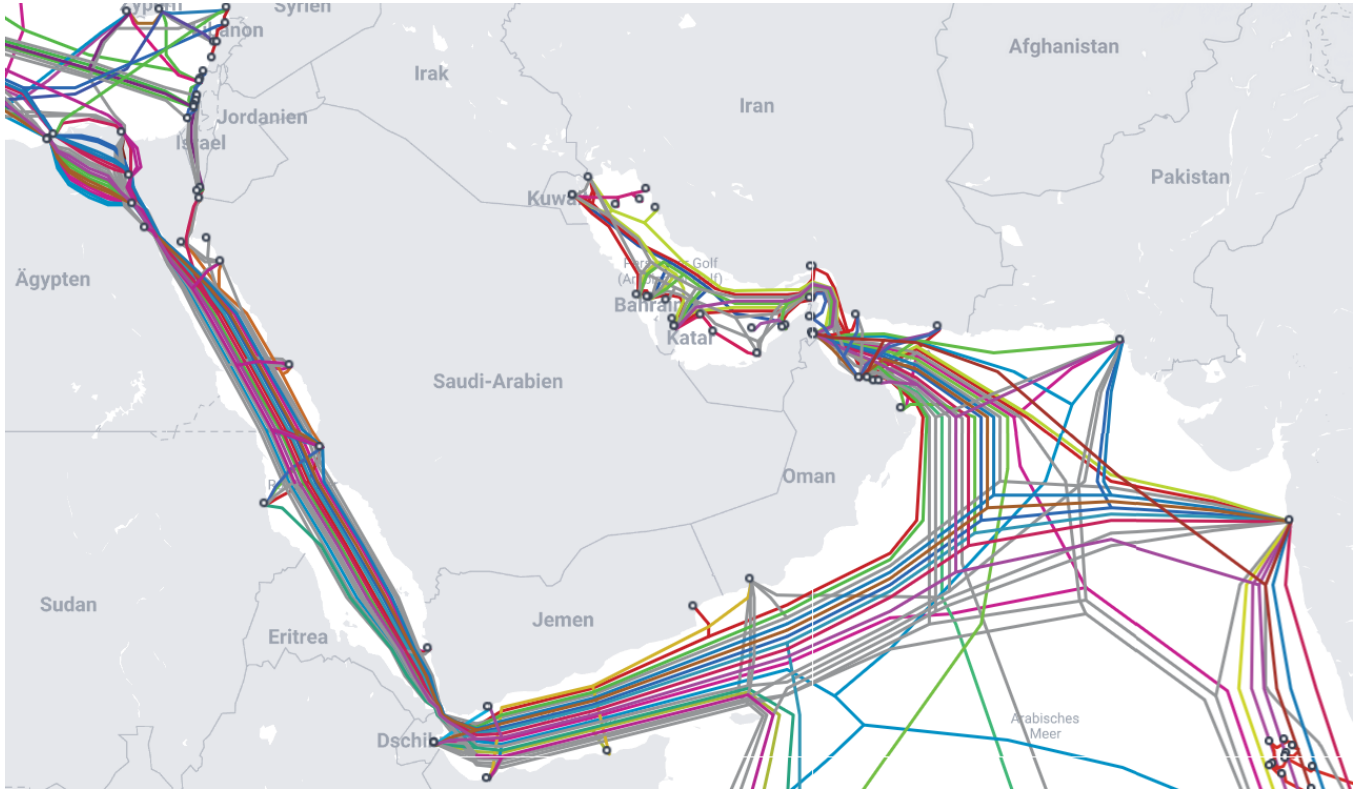
Connectivity – Indispensable for Business and Society



High bandwidth and low latency for user-friendly data-rich applications

Source: https://www.submarinecablemap.com/ 23 Nov 2026

Multi-Redundancy nearly Everywhere



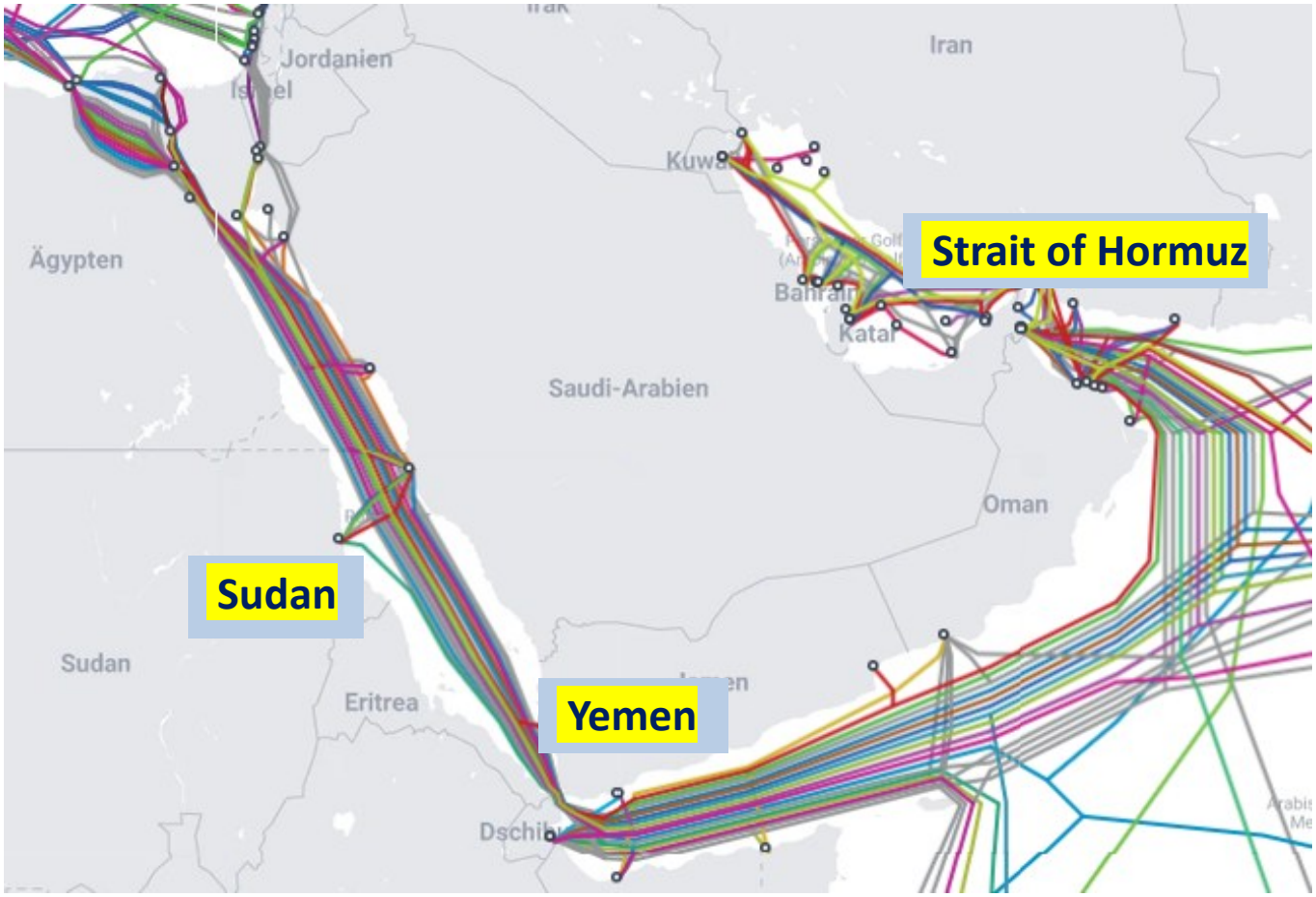
Multi-Redundancy Strategies ensure high bandwidth connectivity globally.

Global seacable infrastructure was owned by consortia and is now owned (or least controlled) by the Hyperscalers.



https://carriercommunity.com/cc-events/ccl-2025-summit-muscat/290/venue

Regional Risk Hotspots 2026



Risks are manifold:

- Hybrid Sabotage
- Chokepoints
- Geopolitical rivalry
- Supply Chain Fragmentation
- Sovereignty (Export controls)
- Repair Bottlenecks

Seacables are essential parts of Critical Infrastructure.

AI's Hungry Brain: A Data-Driven Dilemma



Fig.: https://www.linkedin.com/pulse/ais-hungry-brain-data-driven-dilemma-meghan-mcparland-tgvqe/



Why is AI so data-hungry?

- **Training Models:** AI models learn from massive datasets. The more data they can consume, the better they become.
- **Permanent Updates:** AI models need to be continuously updated and retrained to keep up with new data and evolving trends.
- **Edge outgrowing Central:** Smart Edges will consume more data, thus enabling compute where the action is.
- **Real-time Processing:** AI apps require real-time processing such as in self-driving cars or facial recognition systems

The Data Scarcity Challenge

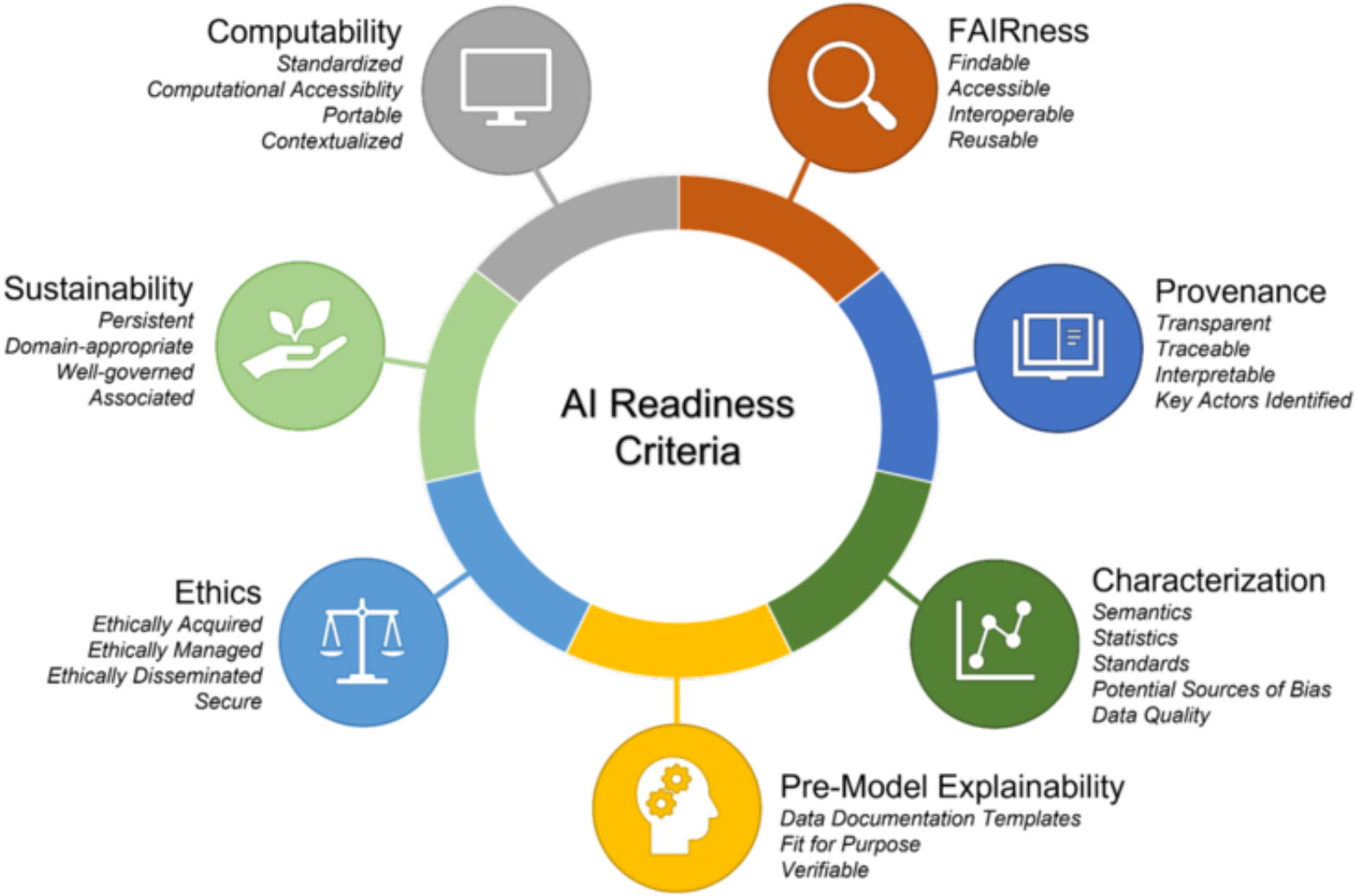


Whereas Hyperscalers have access to large volumes of AI-Ready Data (from Google Search, Instagram to linkedin), …

…most others do not.

Data scarcity—the lack of sufficient, diverse, and well-labeled datasets—is emerging as a critical bottleneck in AI development. While tech giants like Google, OpenAI, and Meta benefit from massive datasets, many organizations and researchers struggle to train robust models. Source: Linkedin, Sibin

How to make Data „AI-Ready“



Source: Researchgate.net

MENA Cross-Border Data Exchange >> AI-Ready Data at Scale

(r)egistered data exchanges: sovereign, auditable and secure between parties enabled by their Service Providers (SPs)

DataVaccinator federated Data Ecosystems with unique benefits (40 patents)

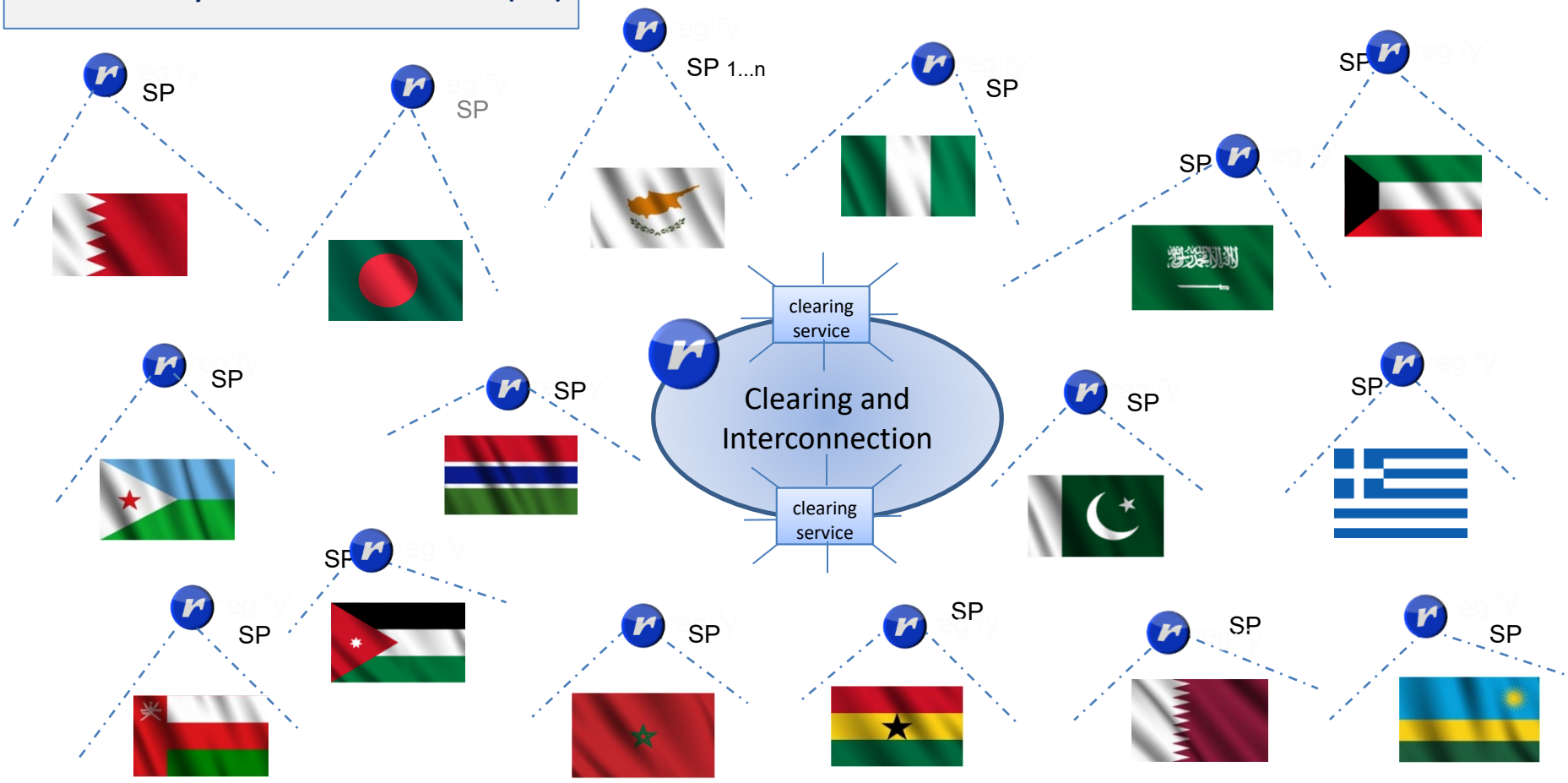


Fig.: DCO.org Sovereign Data Ecosystems with multiple service providers (SP: any data, any DC, any transport channel), connected via Clearing

DATA: New Tradeable Asset fueled by AI (e.g. Oil Drilling)





Oil Drilling Data: Federated AI-Ready Data on Demand



https://www.oilmap.xyz/

Emergence of Markets for AI-Ready Data



Buy health datasets | **Sell** health datasets

Please select the data you are interested in.

Purpose of data

Purpose

AI learning and training

Minimum number of data sets

Enter min. number of data sets

Quality and format

Your mandatory requirements

- **Structure**
  - Key-Value pairs
  - Table (Excel, CSV)
  - FHIR / HL7 / C-CDA
- **Anonymisation**
  - Primary data (no anonymisation)
  - Anonymised
    - Randomized (diff. privacy) info
    - Generalised (k-anonymity) info
    - Synthetic data info
- **Certification**
  - ISO 8000 certified
  - Other certification (eg ISO 5259)

Contents

Mandatory contents

- **Person data**
  - Age
  - Biological sex
  - Ethnology
  - Geographic
    - Full postal address
    - Country
    - Coordinates
  - Social information
    - Income
    - Status
    - Religion
- **Clinical data**
  - Medical history (text)
  - Diagnoses
    - ICD-10/11 codes info

Request data now

https://www.datavaccinator.com/poc-marketplace/

Let‘s stay in touch.

Thank you.

slides at https://datavaccinator.com/news.html

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DataVaccinator

DataVaccinator (DV) powers Data Ecosystems. By “vaccinating data against abuse”, DV software and solutions protect sensitive data, enable secure collaboration and ensure Data Sovereignty in AI environments. DV products rely on its unique technologies (40 patents).

As partner in major initiatives, DV provides guidance on cyber security, governance, compliance, setup and operation of AI-ready data networks.

<u>Background and Expertise:</u>

- Deep Technical Know-how in secure Collaboration and Ecosystems
- Intellectual Property Rights (IPR): Assessment and Management
- Data Ecosystems: Healthcare in EU/MENA, Secure Supply Chains (WEF), Belt&Road (Asia), Logistics (Air, Sea, Road), Cyber Security (ASEAN)
- Belfer Security Center (Harvard, JFK), WEF Security Group