



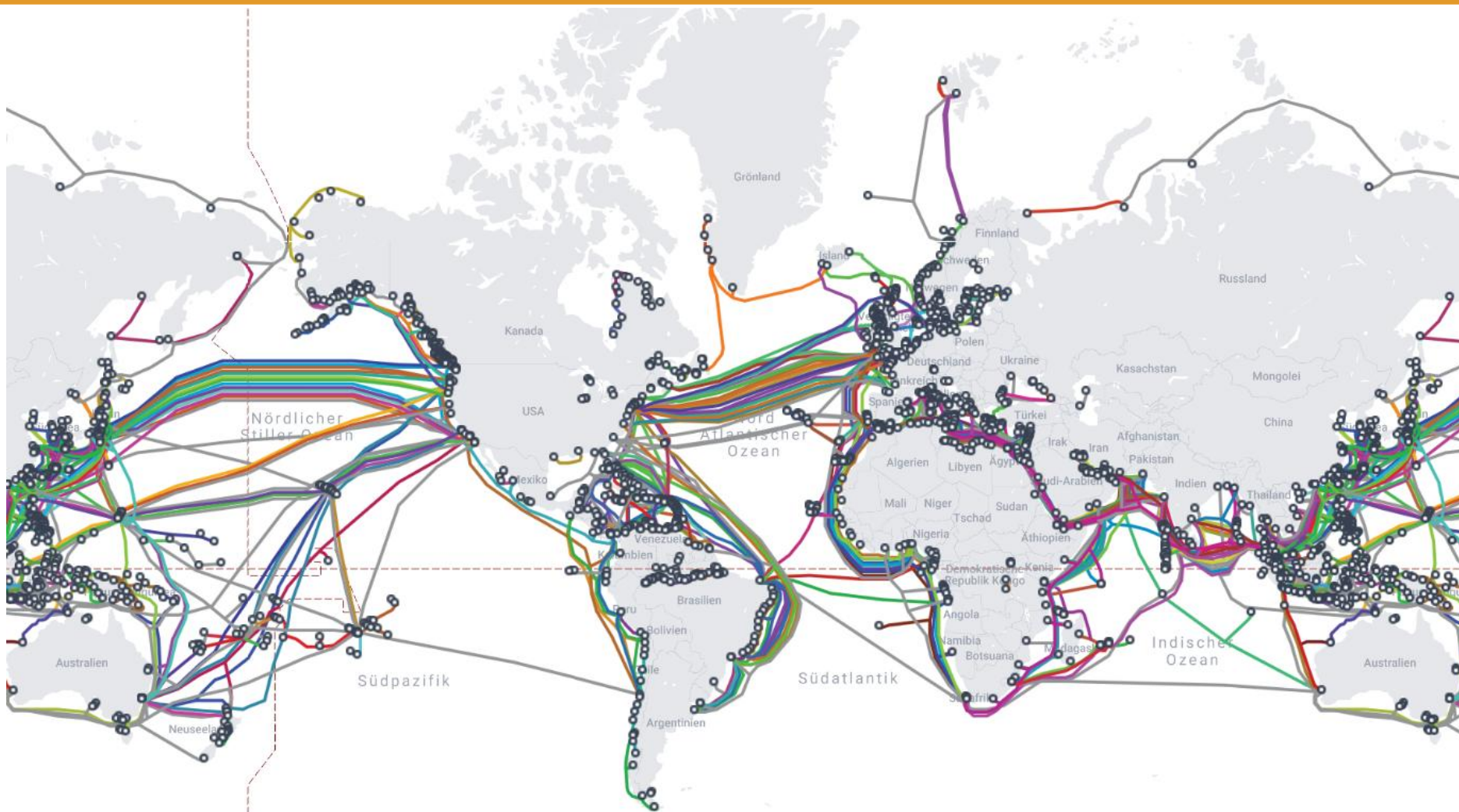
DataVaccinator (DV) powers Data Ecosystems. By “vaccinating data against abuse”, DV software and solutions protect sensitive data, enable secure collaboration and ensure Data Sovereignty in AI environments. DV products rely on its unique technologies (60 patents).

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

Background and Expertise:

- 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

Global Connectivity is a Given



Source: <https://www.submarinecablemap.com/> 07 Nov 2025

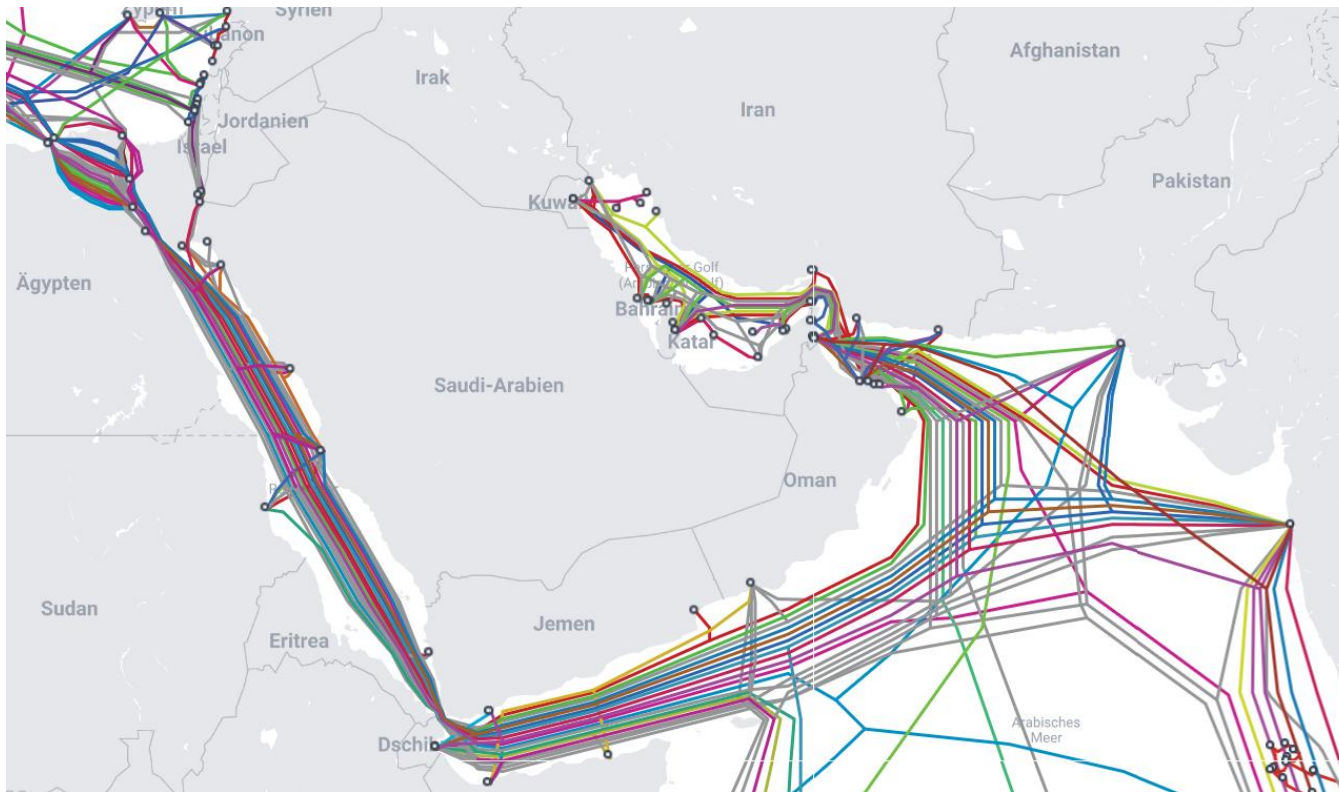
Connectivity – Indispensable for Society



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

Source: <https://www.submarinecablemap.com/> 07 Nov 2025

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>

AI's Hunger for Data and Feeding its insatiable LLM Animals



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



**Connectivity is not AI's bottleneck
... but the lack of high volumes of
AI-Ready Data !**

Why is AI so data-hungry?

- **Training Models:** AI models learn from massive datasets. The more data they consume, the more accurate and sophisticated they become.
- **Real-time Processing:** AI applications often require real-time processing of large amounts of data, such as in self-driving cars or facial recognition systems.
- **Constant Updates:** AI models need to be continuously updated and retrained to keep up with new data and evolving trends.

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



How Data Scarcity Is Slowing AI Progress: Challenges & Solutions

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

Lack of Real-World Data >> Go Synthetic ?!?



SYNTHETIC DATA IN HEALTHCARE

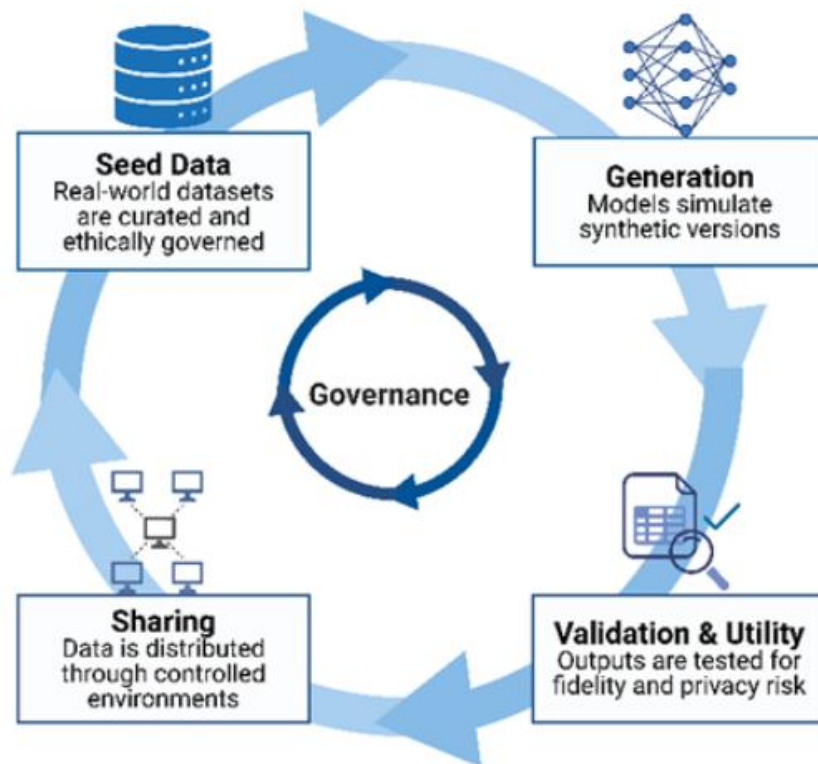


Figure 1. The Synthetic Data Lifecycle: From Ethical Sourcing to Responsible Reuse

Source: [Synthetic Data in Healthcare](#)

The Promise of Synthetic Data



SYNTHETIC DATA IN HEALTHCARE

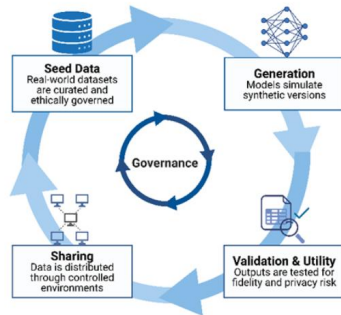


Figure 1. The Synthetic Data Lifecycle: From Ethical Sourcing to Responsible Reuse

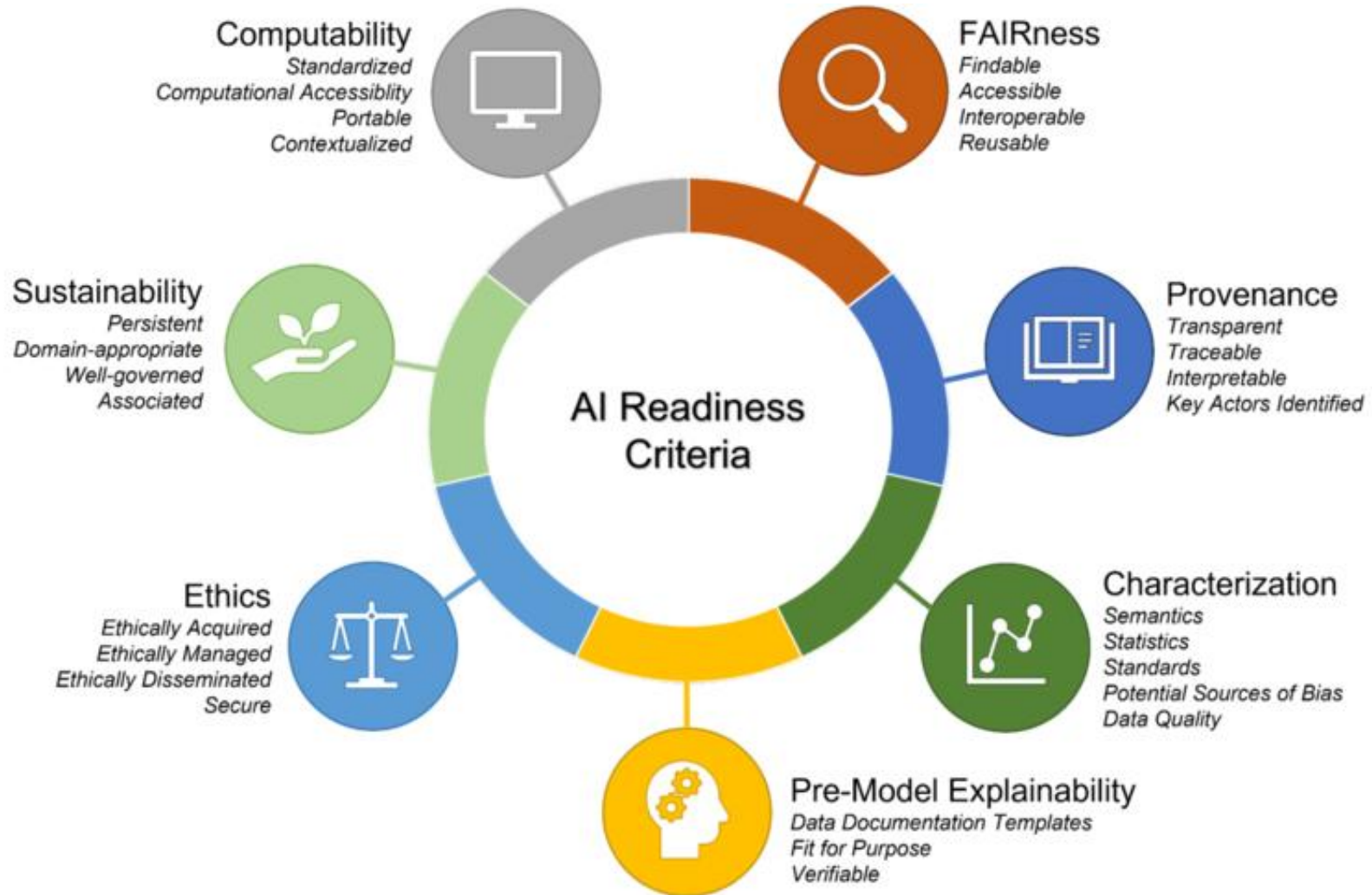
Real-World Data is a Scarce Resource.
As AI requires Large Volumes of Data, Models
generate new Data from Real-World Data. But:
Synthetic Data is not the real Thing !

From Gaps to Gains: Using Synthetic Data to Improve AI Fairness

High-performing healthcare AI requires large, diverse and representative datasets, something that real-world clinical data often fails to deliver. SD closes these gaps by augmenting datasets with rare conditions, catering for balanced class distributions and greater demographic variability.

Source: [Synthetic Data in Healthcare](#)

How to make Data „AI-Ready“

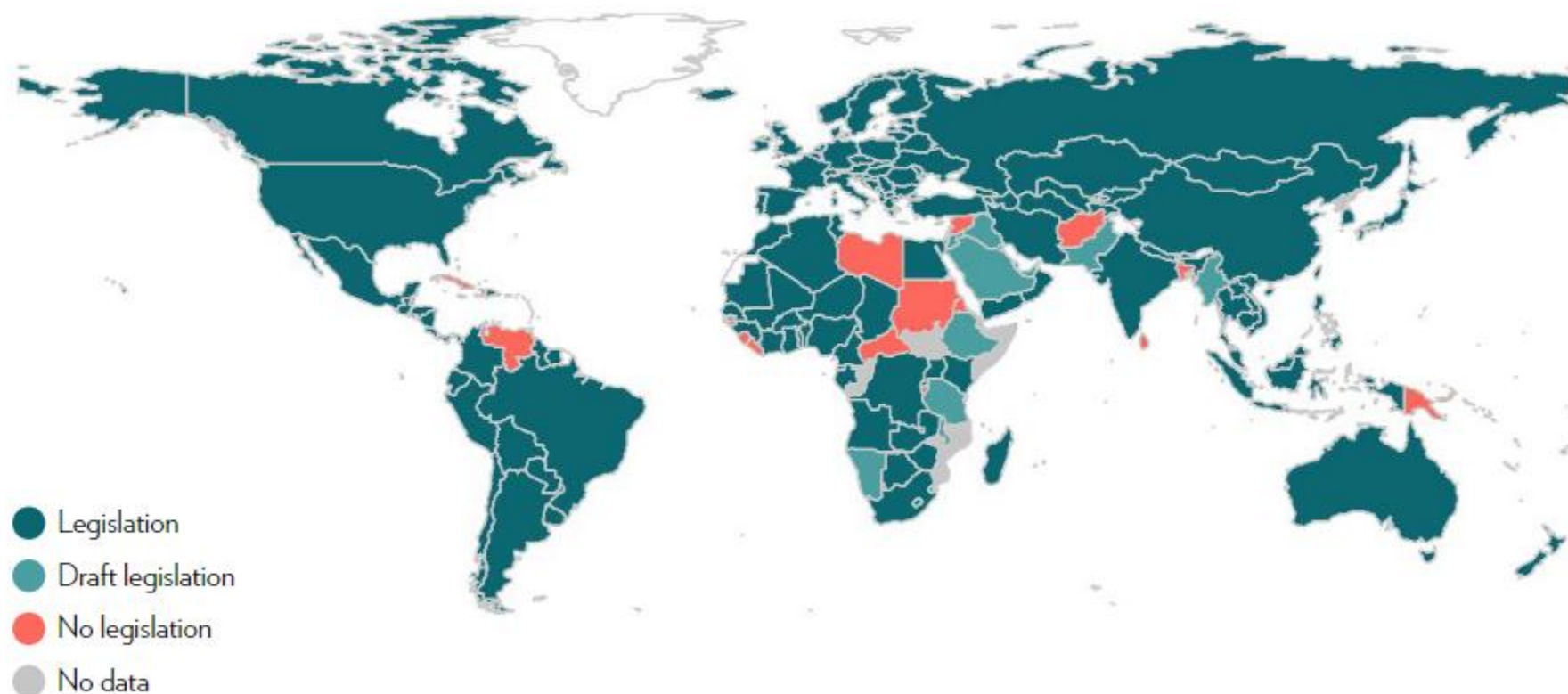


Source: [Researchgate.net](https://www.researchgate.net)

Legislation in Place for Cross-Border Data Exchange



Figure 2. Data protection and privacy legislation worldwide



Source: UNCD, Data Protection and Privacy Legislation Worldwide (2021).
<https://unctad.org/page/data-protection-and-privacy-legislation-worldwide>

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 (60 patents)

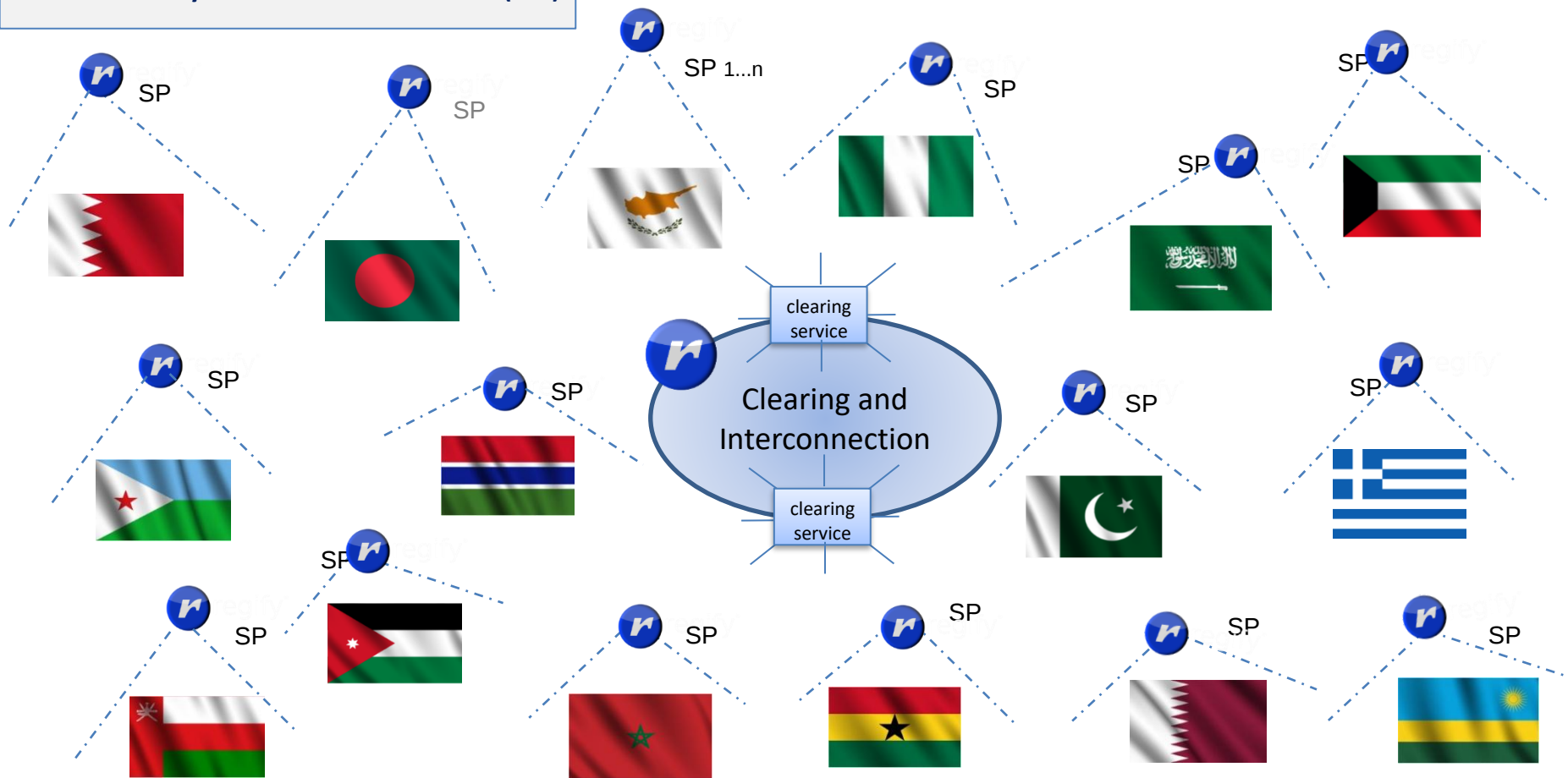


Fig.: DCO.org Sovereign Data Ecosystems with multiple service providers (SP: any data, any DC, any transport channel), connected via Clearing

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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