

Europe & AI

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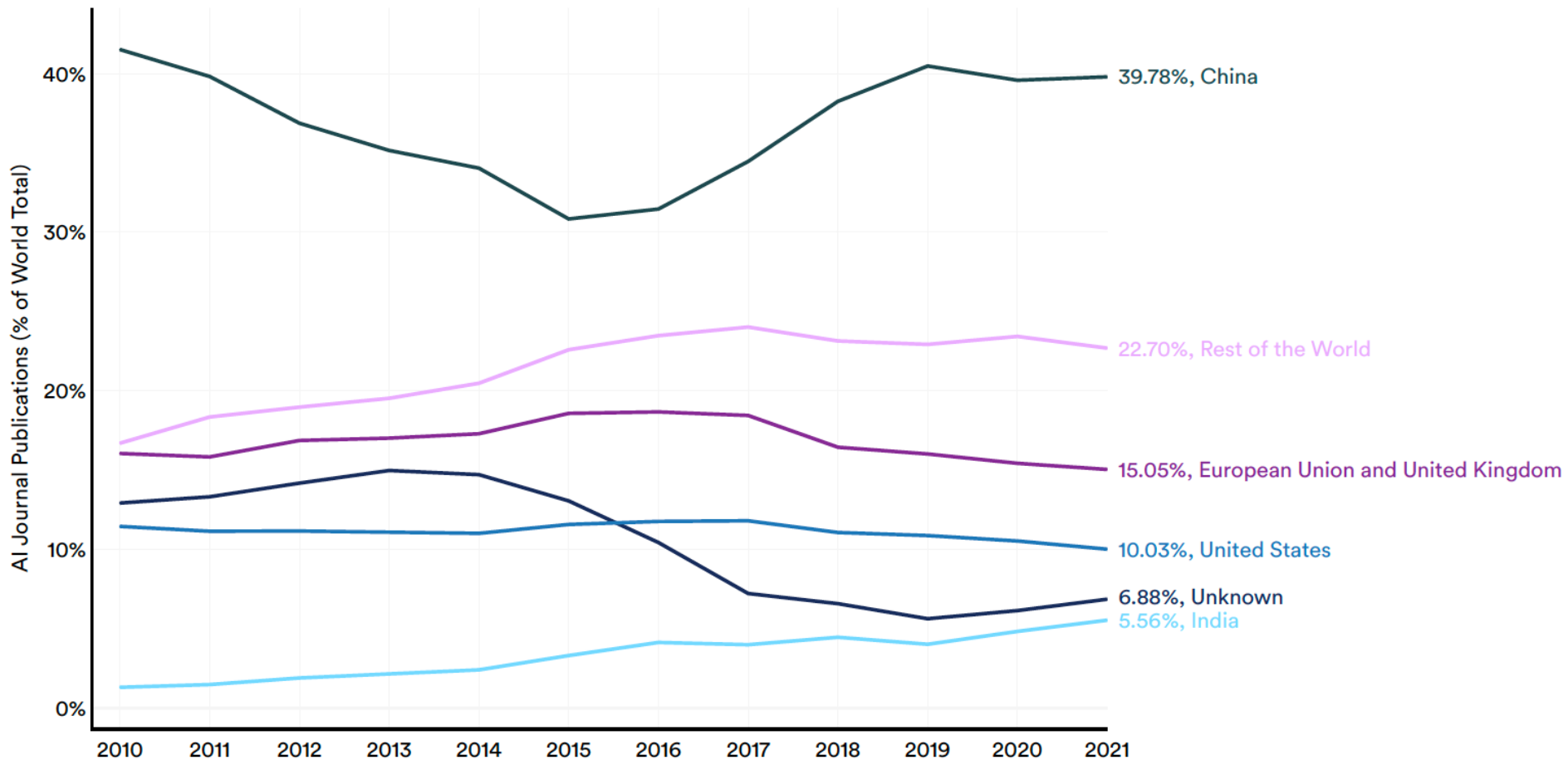
What European Union should do about AI

- Home of global «Open Source AI» community
- Distributed computing architecture as opposed to hyperscalers
- Self-sovereign Identity Framework with OPAL model
- Specific data spaces and knowledge base for «social applications» oriented to European public goods (health care, education, mobility, journalism, etc.)
- AI for Open Banking and Financial Stability

AI Journal Publications: China has remained the leader throughout, with 39.8% in 2021, followed by the European Union and UK (15.1%), then US (10.0%).

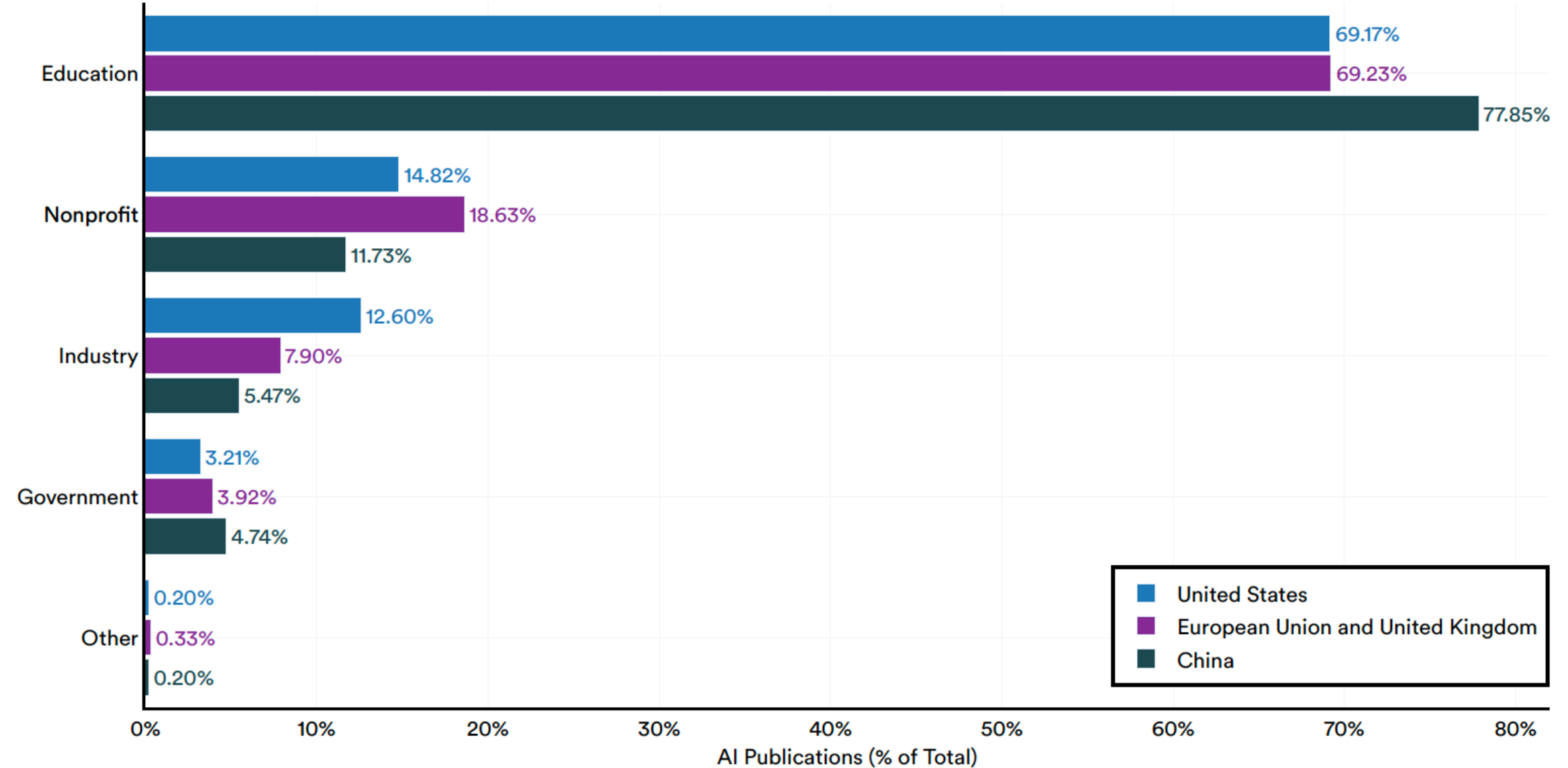
AI Journal Publications (% of World Total) by Geographic Area, 2010–21

Source: Center for Security and Emerging Technology, 2022 | Chart: 2023 AI Index Report



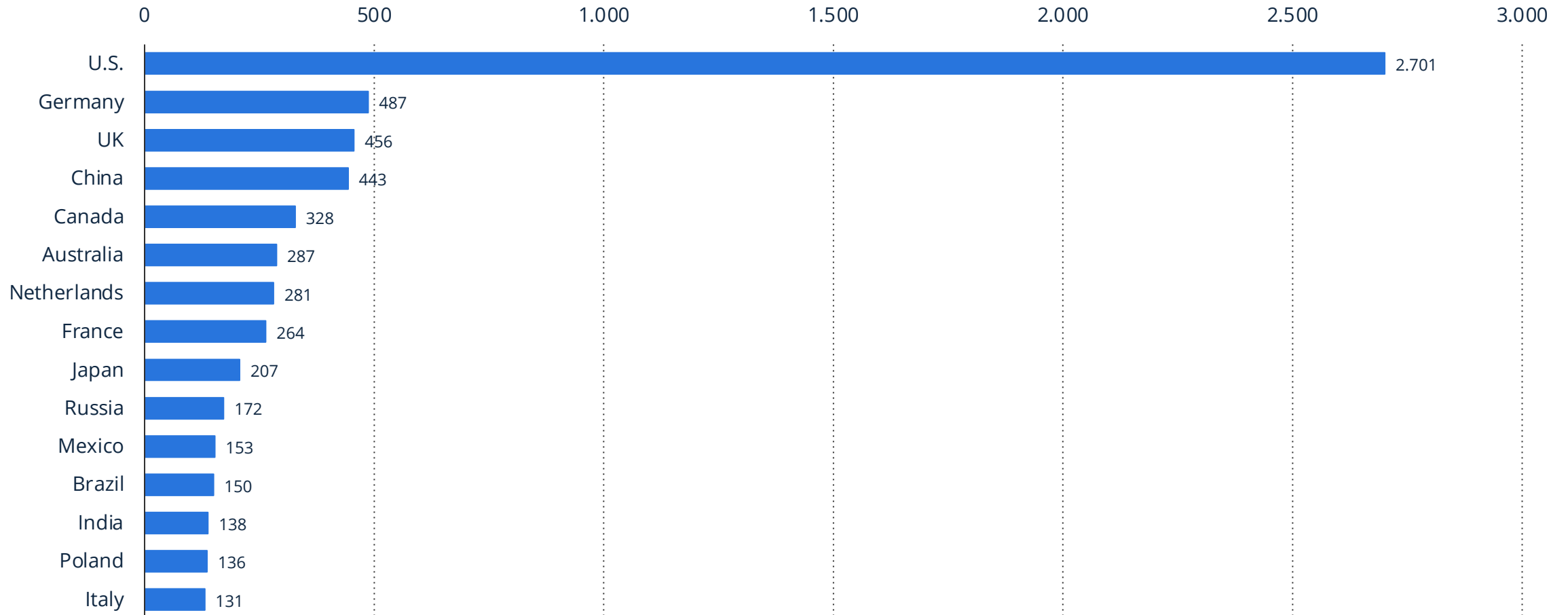
AI Publications (% of Total) by Sector and Geographic Area, 2021

Source: Center for Security and Emerging Technology, 2022 | Chart: 2023 AI Index Report



Number of data centers worldwide 2022, by country

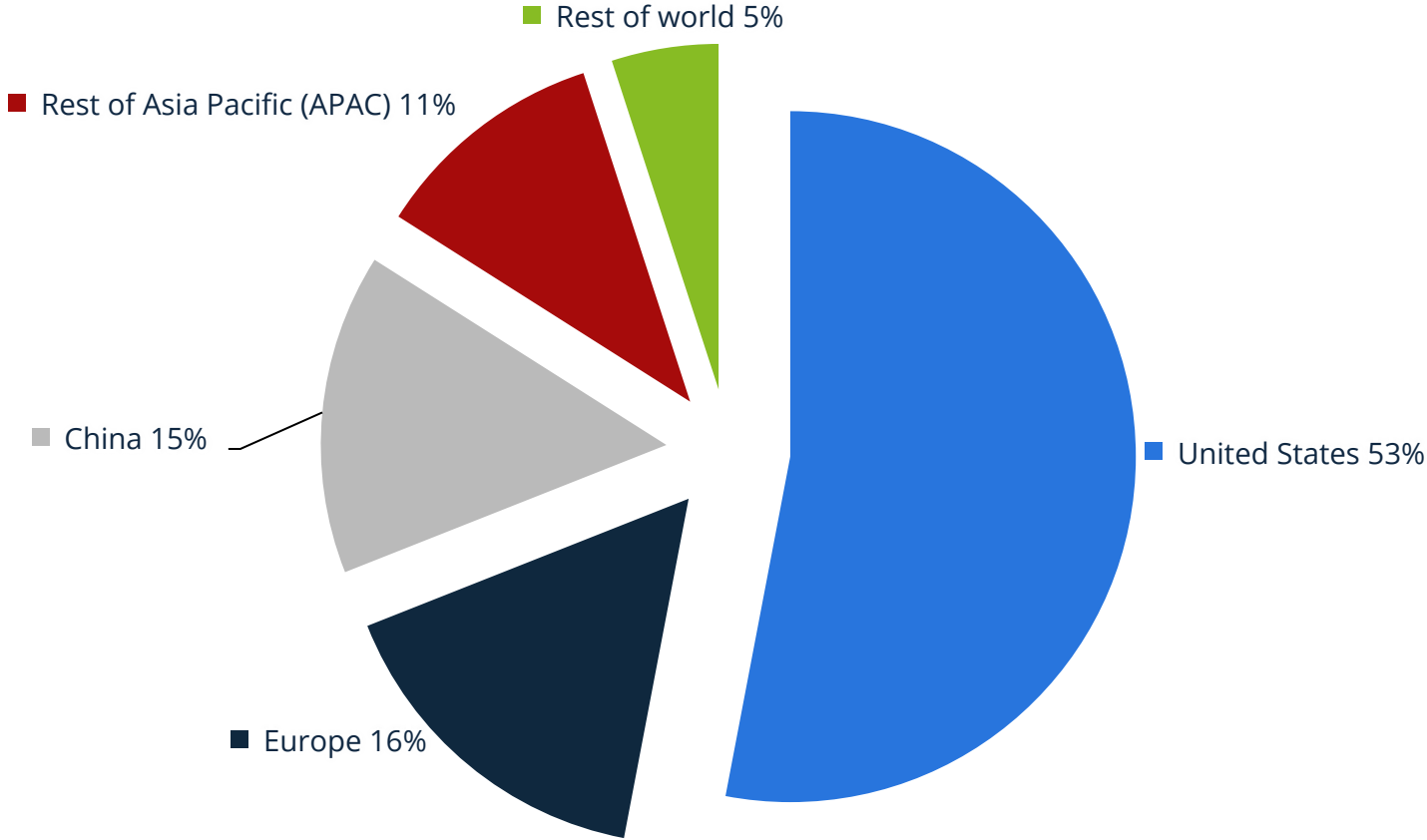
Number of data centers



Description: As of January 2022, 2,701 data centers were in the United States, with a further 487 data centers located in Germany. The United Kingdom ranked third among countries in terms of the number of data centers with 456, while China recorded 443.

Source(s): Cloudscene

Share of global hyperscale data center capacity 2022, by region



Description: As of the second quarter of 2022, the United States accounts for over half of global hyperscale data center capacity, with a particular concentration in the state of Virginia. Europe holds the next highest capacity at 16 percent, followed closely by China at 15 percent.

Source(s): Synergy Research Group

SSI & Digital Euro for AI-based banking & finance



«Bring algorithms to data, not data to algorithms»

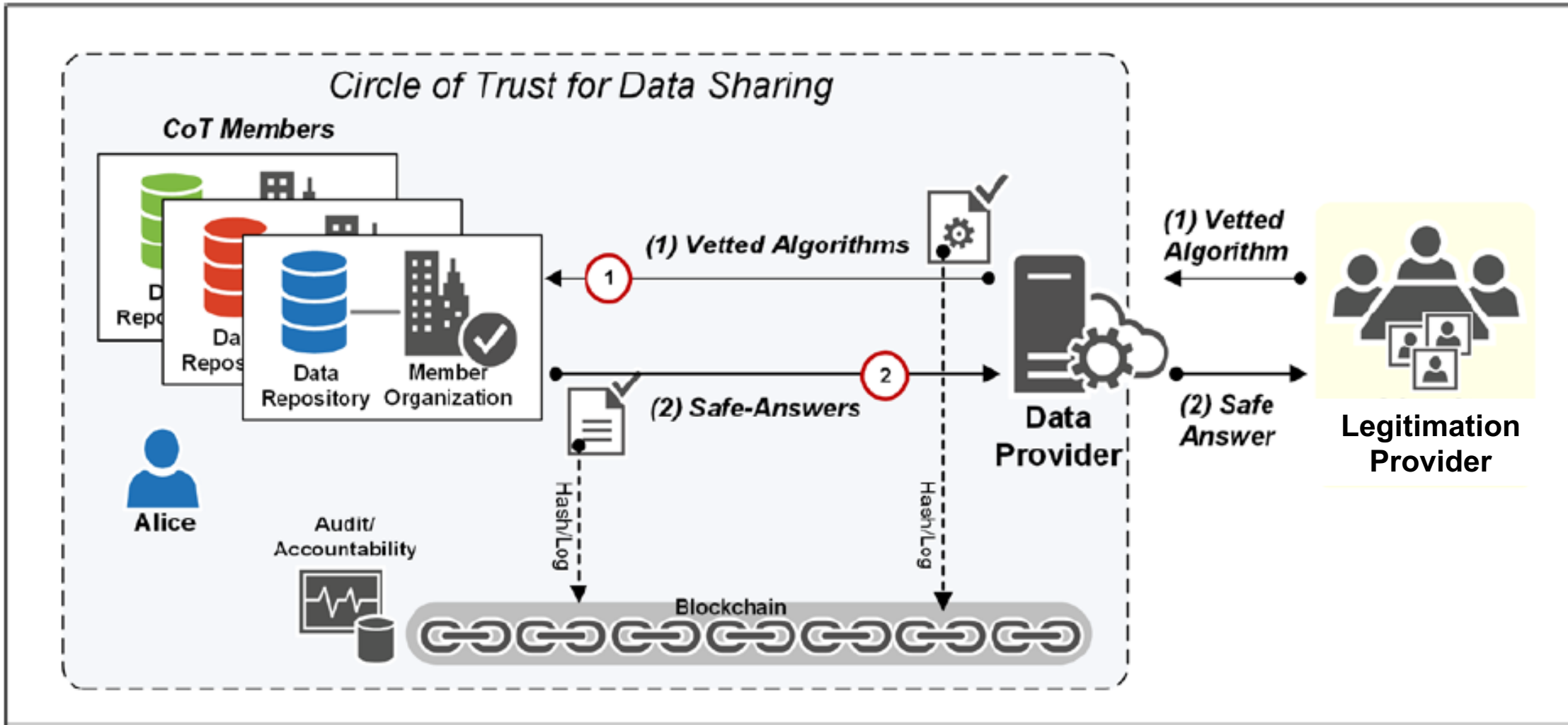


Figure 3: Circle of Trust for Data Sharing with a Data Provider as a proxy to the external world

Fragmented data & infrastructures



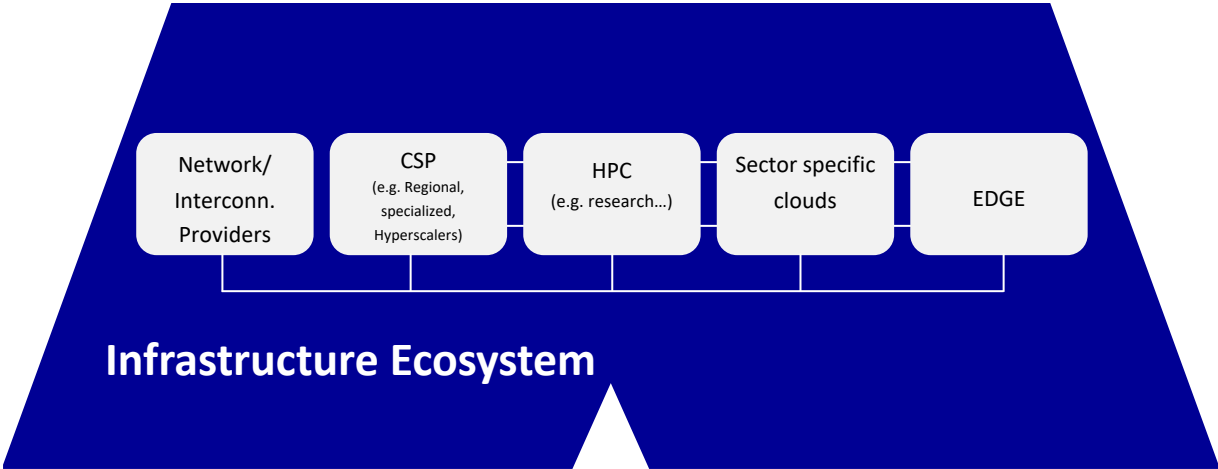
Data

Untapped, fragmented, disjoint, no secure exchange mechanism



infrastructures

Segregated, non-reversible, non-interoperable, closed architectures, private standards



A federated model of European infrastructures



Advanced Smart Services

(Cross-) Sector Innovations/ Market places/
Applications



Data Spaces

Interoperable & portable (Cross-) Sector
data-sets and services



Gaia-X Services

Decentralized Services to verify trust, sovereign data
exchange, and federation across nodes



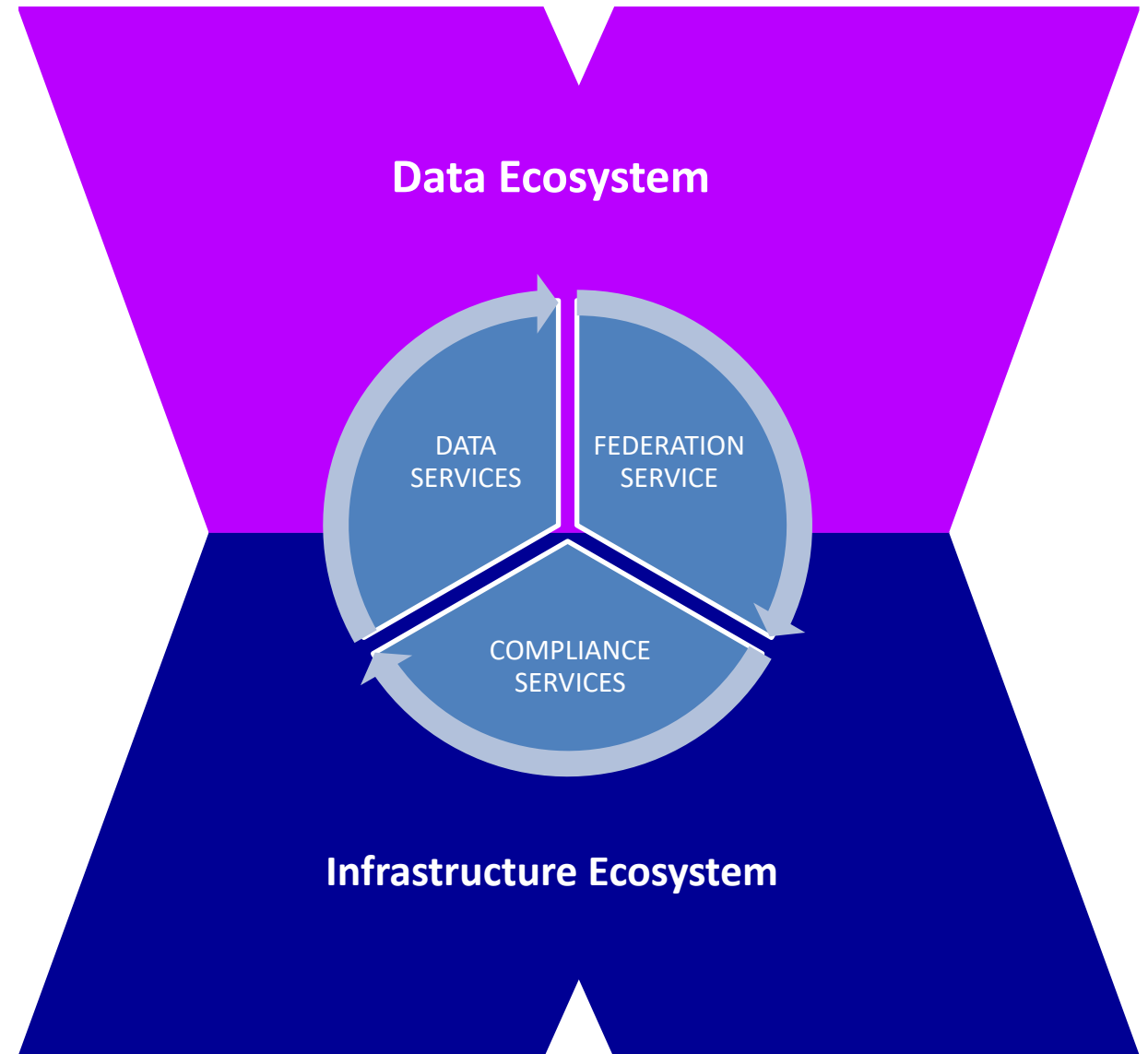
Portability, Interoperability & interconnectivity

Technical: Architecture and Specifications
Commercial: Policies and Labels



Compliance

Legal: Regulations



Thanks!

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