

# Do you mean Database?

Data space perception beyond Europe



Gianluca Lipari  
European Projects Coordinator – EPRI Europe

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# US Utilities tech radar – where are we?

EPRI | DIGITALIZATION, DATA ANALYTICS & CYBERSECURITY

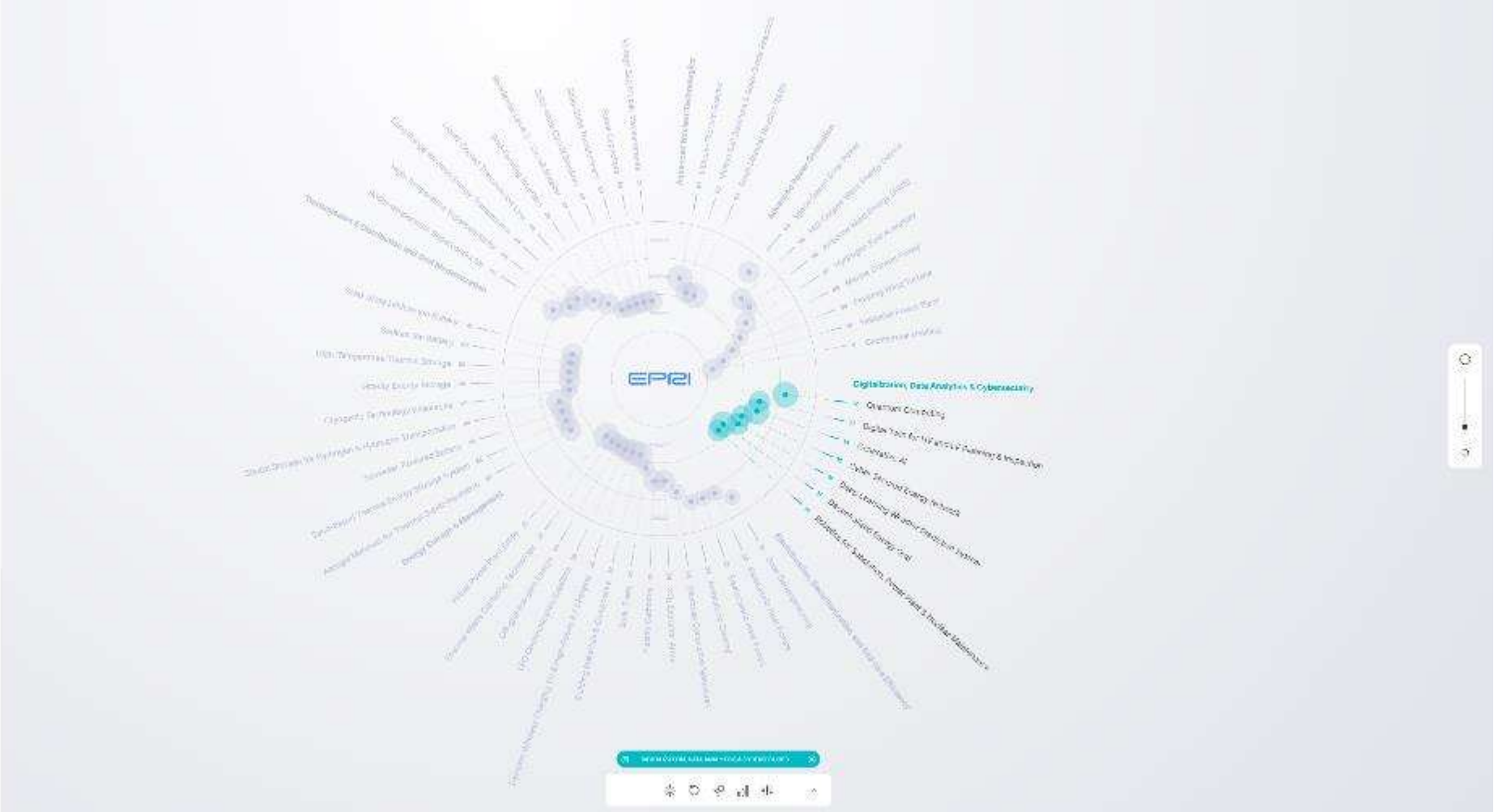


### Digitalization, Data Analytics & Cybersecurity

Includes the utilization of digital tools to improve grid operations and decision making. Creates new pricing and operational models with increasing automation and security in grid data and digital assets across the entire lifecycle.

#### Technologies to

- AI/ML (Artificial Intelligence/Machine Learning)
- Deep Learning Weather Prediction System
- AI/ML for Substation Fundamentals & Asset Maintenance
- Quantum Computing
- AI/ML Based Energy Network
- Digital Tools for Field & Planning & Inspection
- Blockchain Energy Data



# US Utilities tech radar – where are we?

Data driven innovation is central for Utilities in US, however the Data Space concept is not widely known or recognized.

The European Data Strategy underlying the Data Space development doesn't have a direct counterpart in the United States.

Big tech giants are driving innovation in this data-centric ecosystem, in most of the cases with proprietary and closed approaches.



# Europe vs. United States – Drivers and Barriers

- **Regulatory Framework:** Strong regulations like GDPR ensure data privacy and protection.
- **European Data Strategy:** Promotes a unified digital market and cross-sector collaboration.
- **Public-Private Partnerships:** Encourages innovation through shared resources and data.
- **Investment in Infrastructure:** Significant investments in data centers and cloud technologies.
- **Inconsistent Regulations:** Patchwork of sector-specific laws can lead to uneven data protection.
- **Fragmented Market:** Different regulations across states can create challenges.
- **Market-Driven Innovation:** Innovation led by private companies, without centralized initiatives



[europe.epri.com](https://europe.epri.com)



[epri-europe@epri.com](mailto:epri-europe@epri.com)

[glipari@epri.com](mailto:glipari@epri.com)



Mailing List

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