



**"From energy  
data spaces  
to cross-sector  
platforms + ecosystems "**

**Rolf Riemenschneider, Head of Sector IoT  
DG CONNECT/E4  
European Commission**

**AI-driven  
Edge Systems**



# Unlocking the potential of energy data: a political priority



## Data Strategy

Establish a single market for data. Enable data sharing and establish fair and clear rules on data use and access.



**Digitalisation of Energy Action Plan**  
Support the deployment of **common European energy data spaces** and investment in digital energy infrastructure

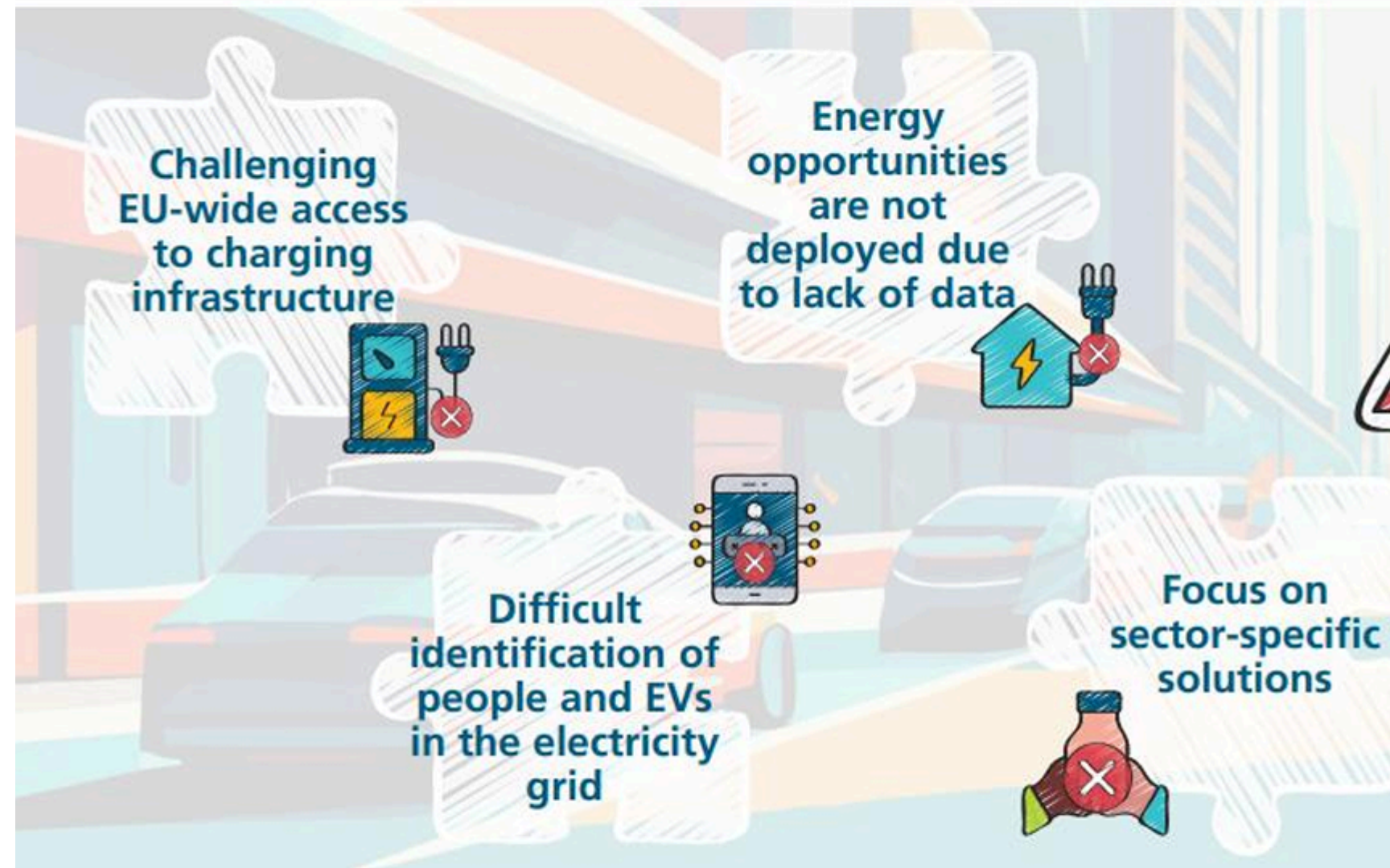


## AI Continent Action Plan

Apply AI Strategy to boost AI integration in strategic sectors  
Address needs in computing, cloud and data infrastructures

# Lack of cross-sector orchestration

## Challenges



Study Report by Fraunhofer FIT, May 2024 <<LEVERAGING TWIN TRANSFORMATION DIGITAL INFRASTRUCTURES TO ADVANCE DECARBONISATION AT THE NEXUS OF ENERGY AND MOBILITY >>



Smart Home Energy Application

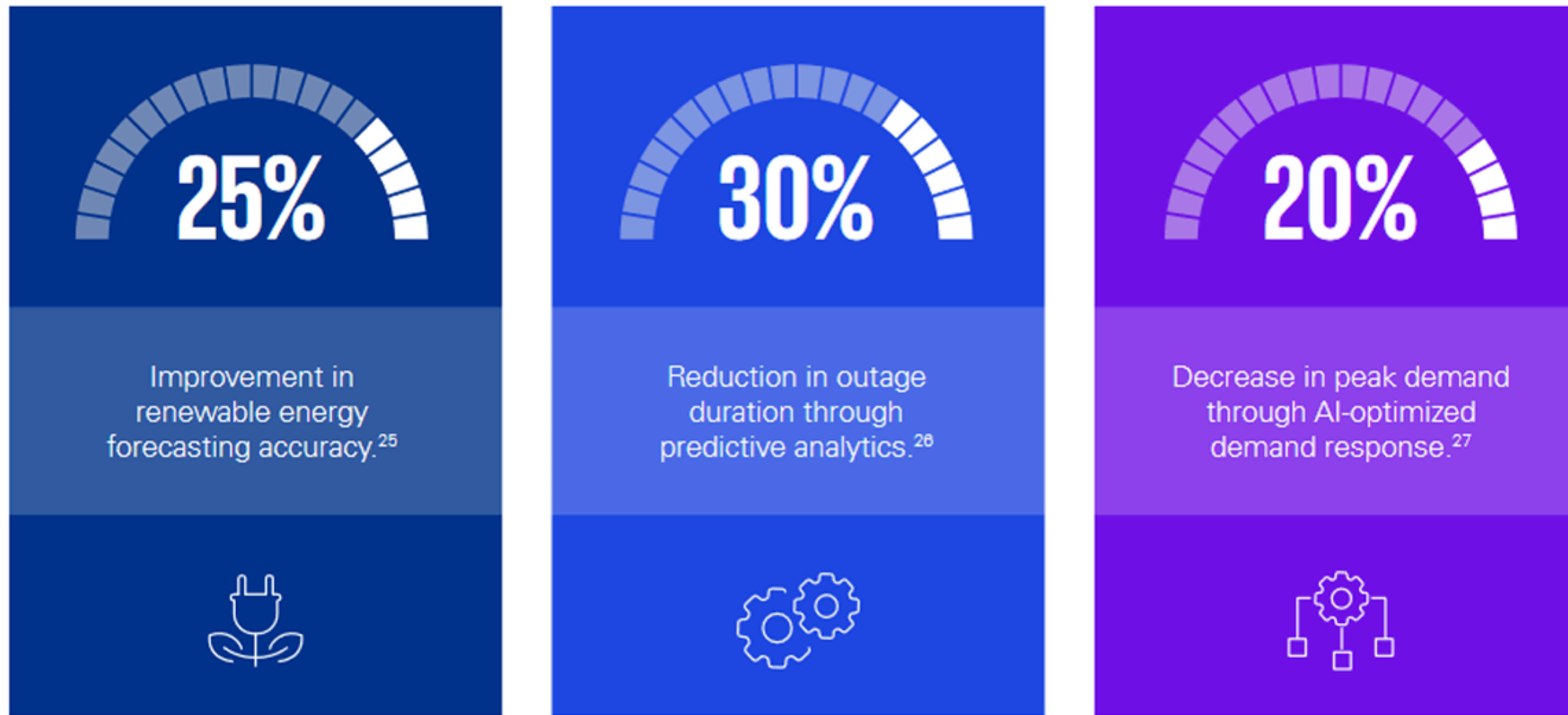


## Opportunities

- Use of Open Source like EVCC
- Extend pilot sites
- Industrial Advisory Board



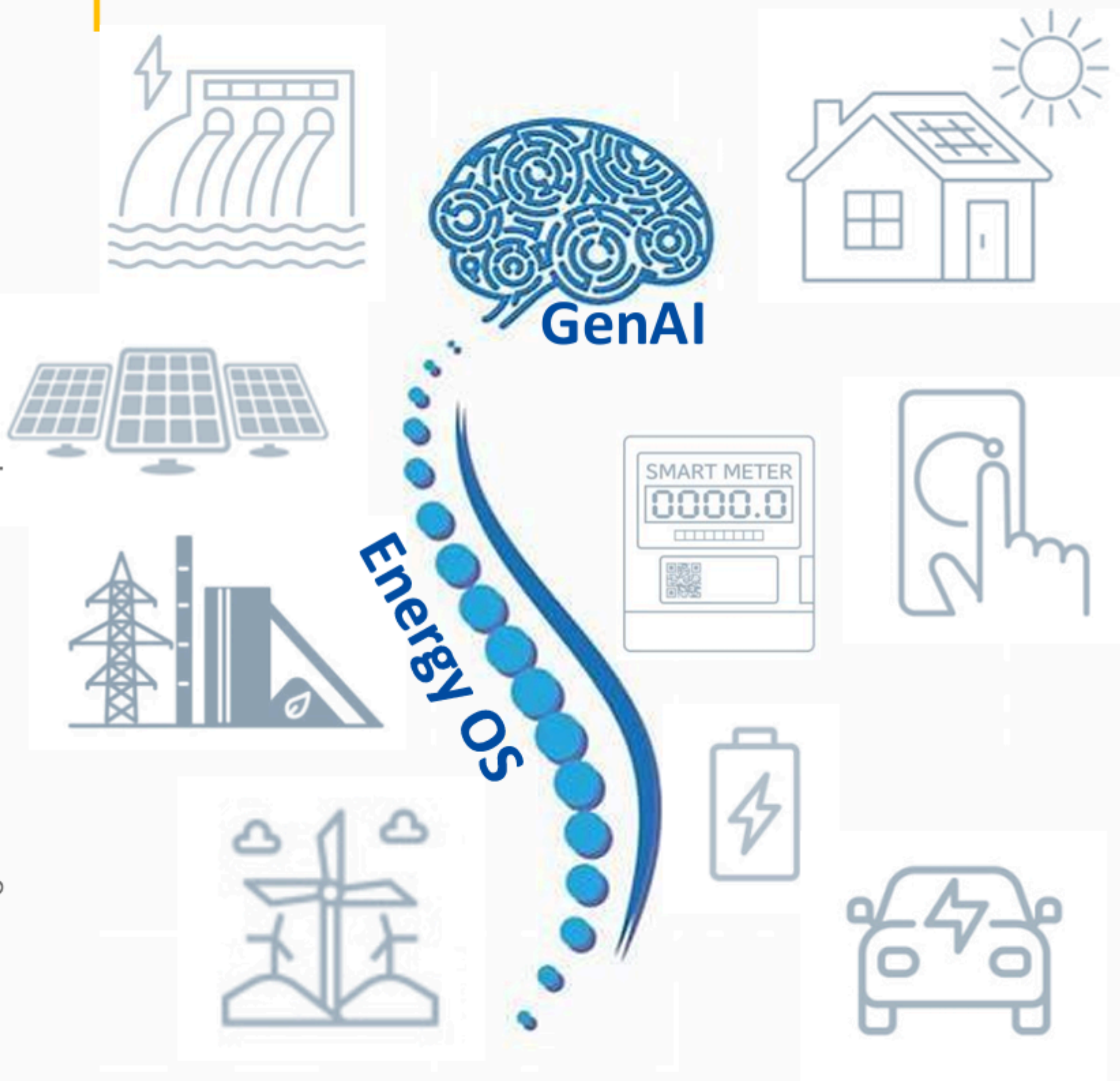
# Impact of an Energy orchestrator (KPMG)



- **Navigating utility transformation**  
→ in an era of tech disruption, climate uncertainty, and AI innovation

Courtesy: KPMG The Energy Orchestrator: [Redefining the Future of Utilities](#)

# Towards a digital spine as an Orchestrator powered by GenAI



## The power of GenAI + Data:

- Scenario generation & simulation
- Time series forecasting
- GenAI Decision-making models

Digital  
Twin



Energy  
Data Space

## Better supply – demand side optimisation:

- Harness flexibility - shave peaks
- Increase security of supply
- Reduce carbon footprint
- Lower energy prices



**Horizon Call  
closing  
Oct.2025**

**Open platforms:**

**ecosystem – market place – standards – piloting**

# THANK YOU

## Useful links:

- **Cloud-Edge-IoT Portal** – see [www.EUCloudEdgeIoT.eu](http://www.EUCloudEdgeIoT.eu)

- **Strategic Roadmap Digitalisation and AI: consultation**  
[consultation closing 05/Nov.](#)

- **IoT Platform Pilot Project O-CEI – Open Call:**  
<https://o-cei.eu/>

- **Workshop report AI-GenAI transforming EU's Electricity Grids**  
**Further Reading on Digital Spine**

- **Data Space Support Center** - <https://dssc.eu>
  - Energy Data Space – <https://insieme.energy/>

- **V2G Workshop -Task 53 standardisation**  
**20 Nov. 2025 in Brussels** → <https://v2gleaders.com/>

