

The background is a dark charcoal grey. It is decorated with various abstract geometric elements: thin white and pink lines forming arcs and straight paths; solid circles of different sizes in dark grey and white; horizontal bars with a purple-to-pink gradient; and small red dots. The overall aesthetic is modern and tech-oriented.

BAI DATA

INTERNATIONAL DATA
SPACES ASSOCIATION

**DATA SPACES: Driving interoperability
in the DPP Ecosystem**

DPP Festival

The Hague, 2025-10-09

Global Challenges & Opportunities for Manufacturing Industries



Deployment needs customization across an infrastructure continuum from cloud to Edge, depending on the applications,



Information sharing and data-driven collaboration among manufacturing initiatives across the supply network are becoming more relevant for impactful manufacturing networks.

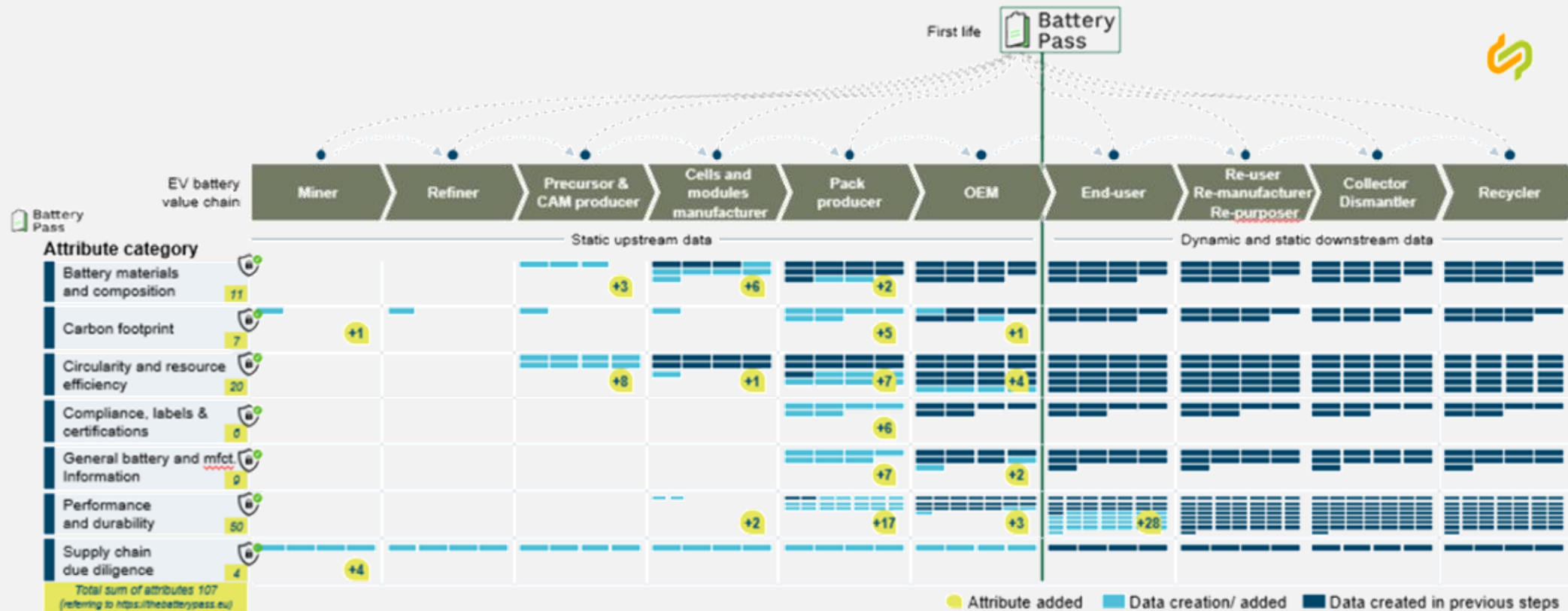


Harmonized standards facilitate business scale-up of data ecosystems which are becoming essential.

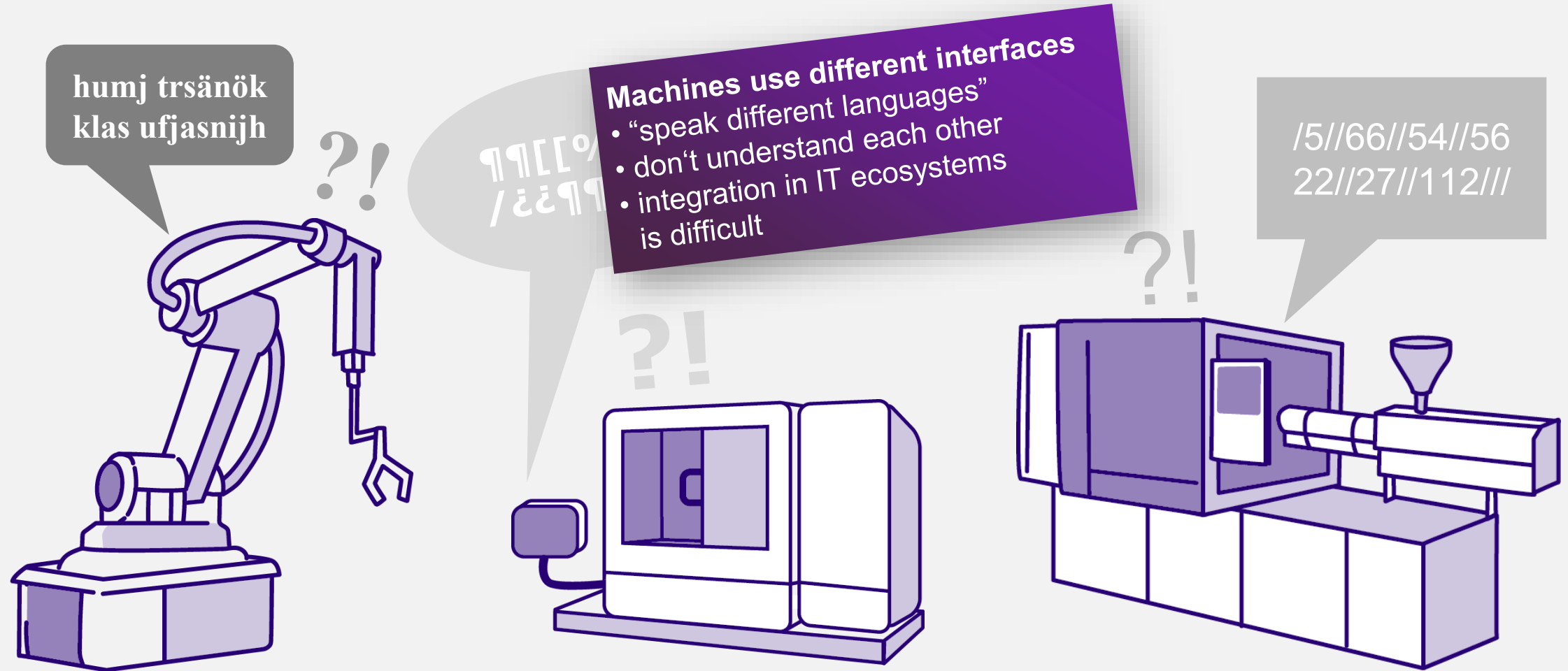
NO COUNTRY, NO INITIATIVE, NO COMPANY CAN ACHIEVE THIS ON ITS OWN!

The Real Challenge: The Complexity of the Value Chain

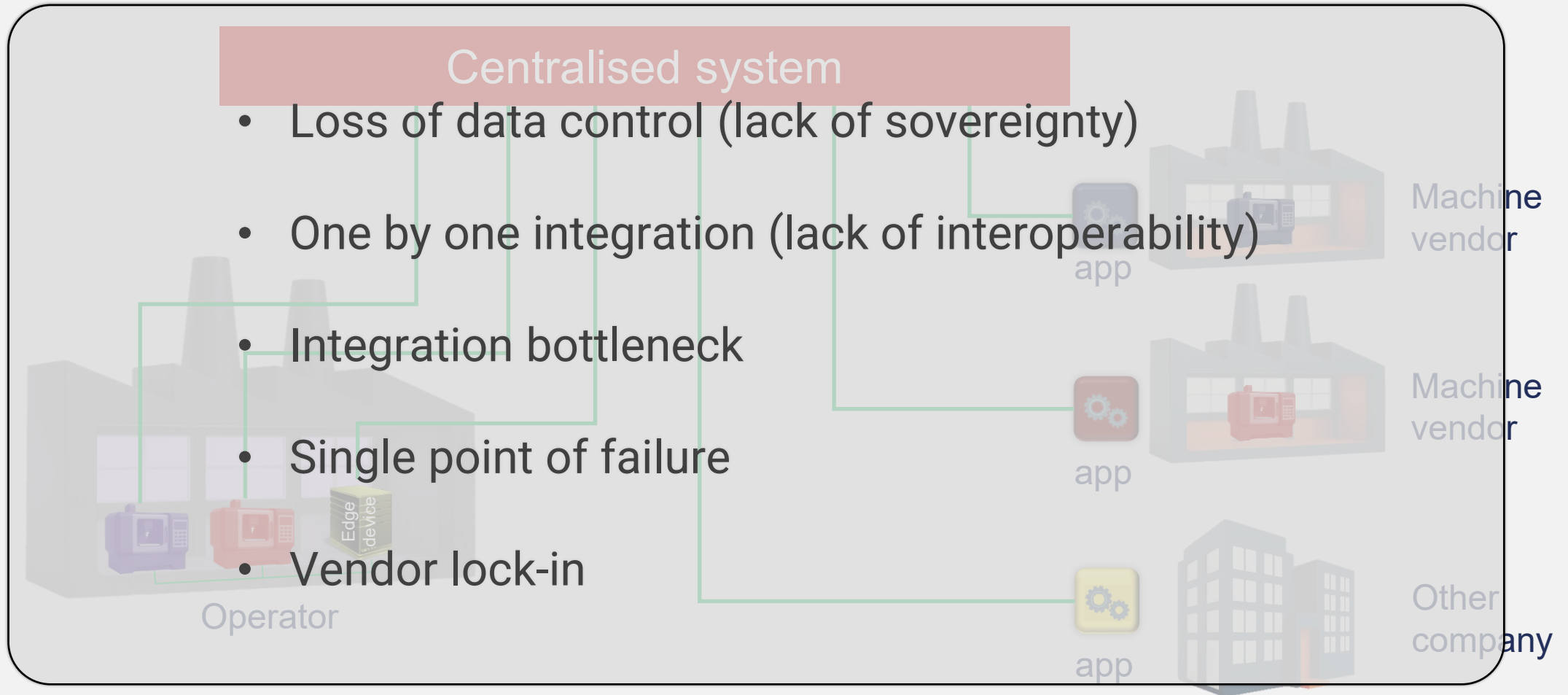
Battery Passport



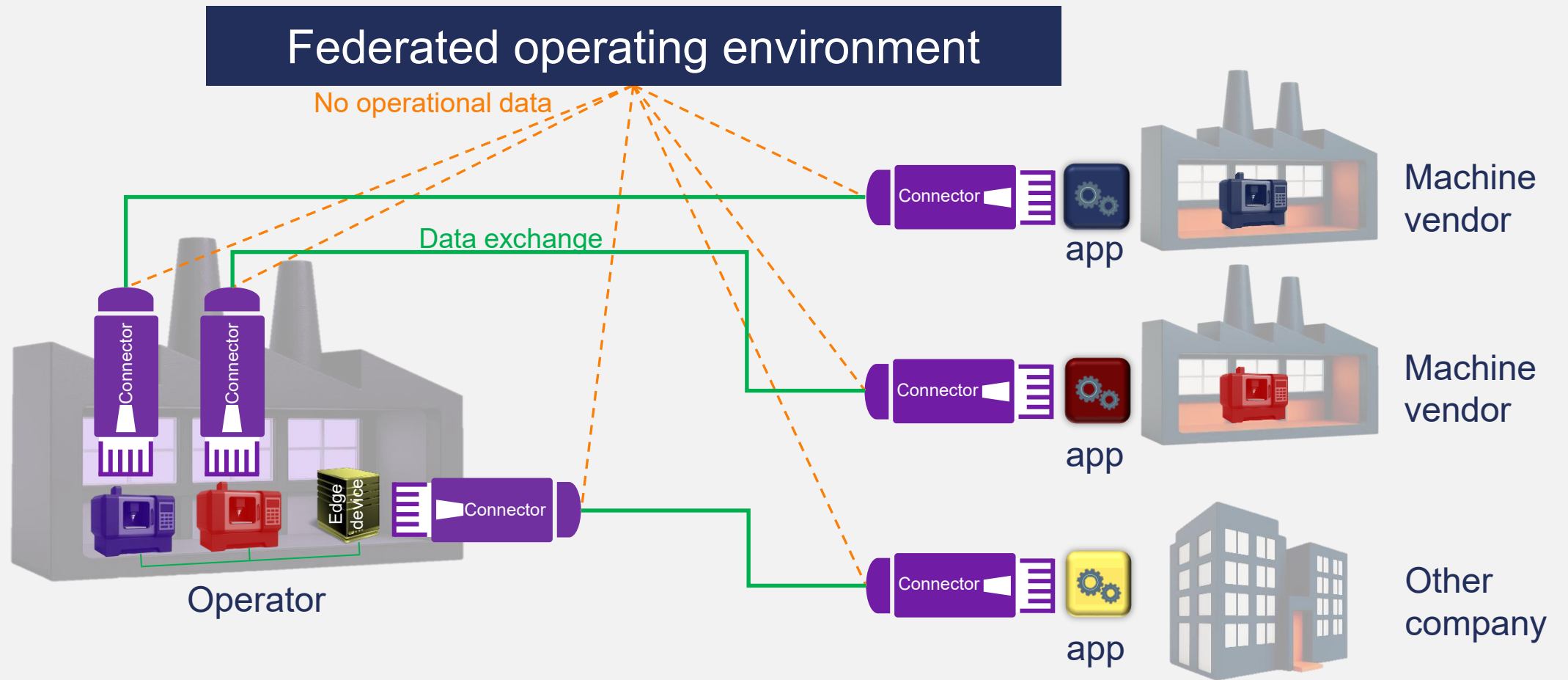
The Core Problem: A Lack of Interoperability



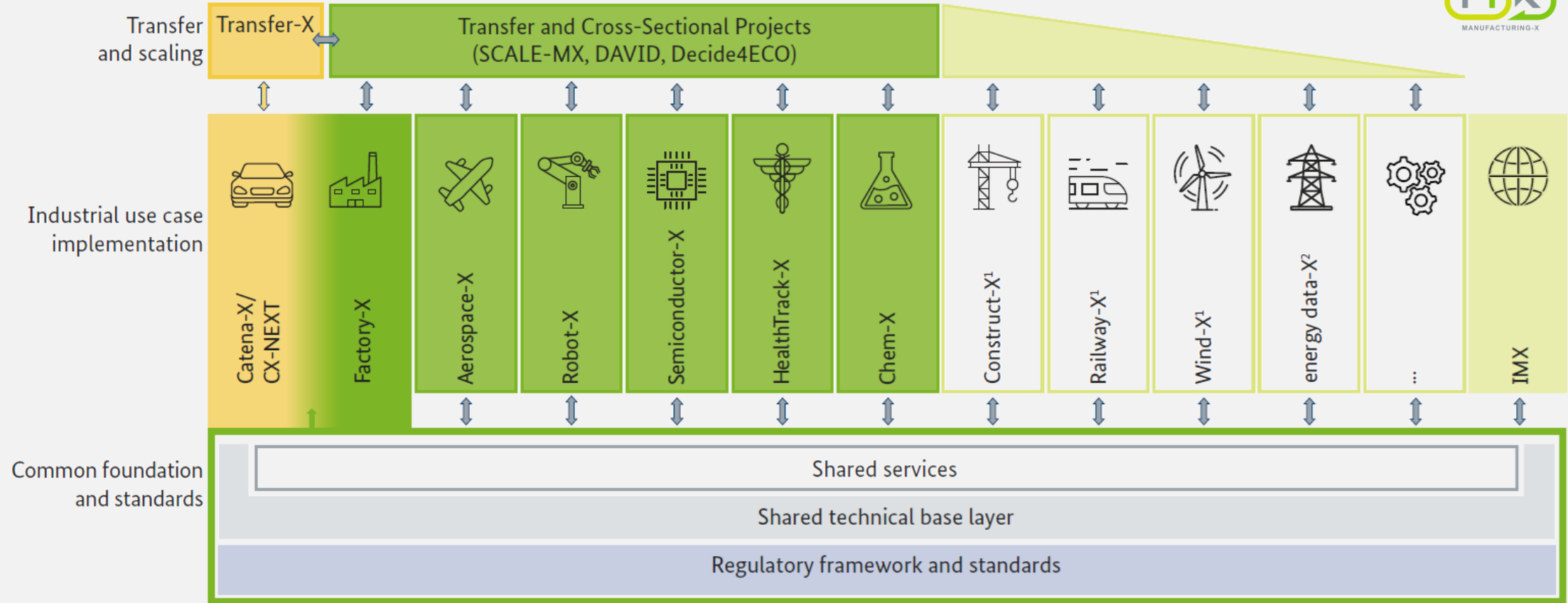
The “Easy” Way: Centralisation



The Solution: A Federated Ecosystem based on Data Spaces

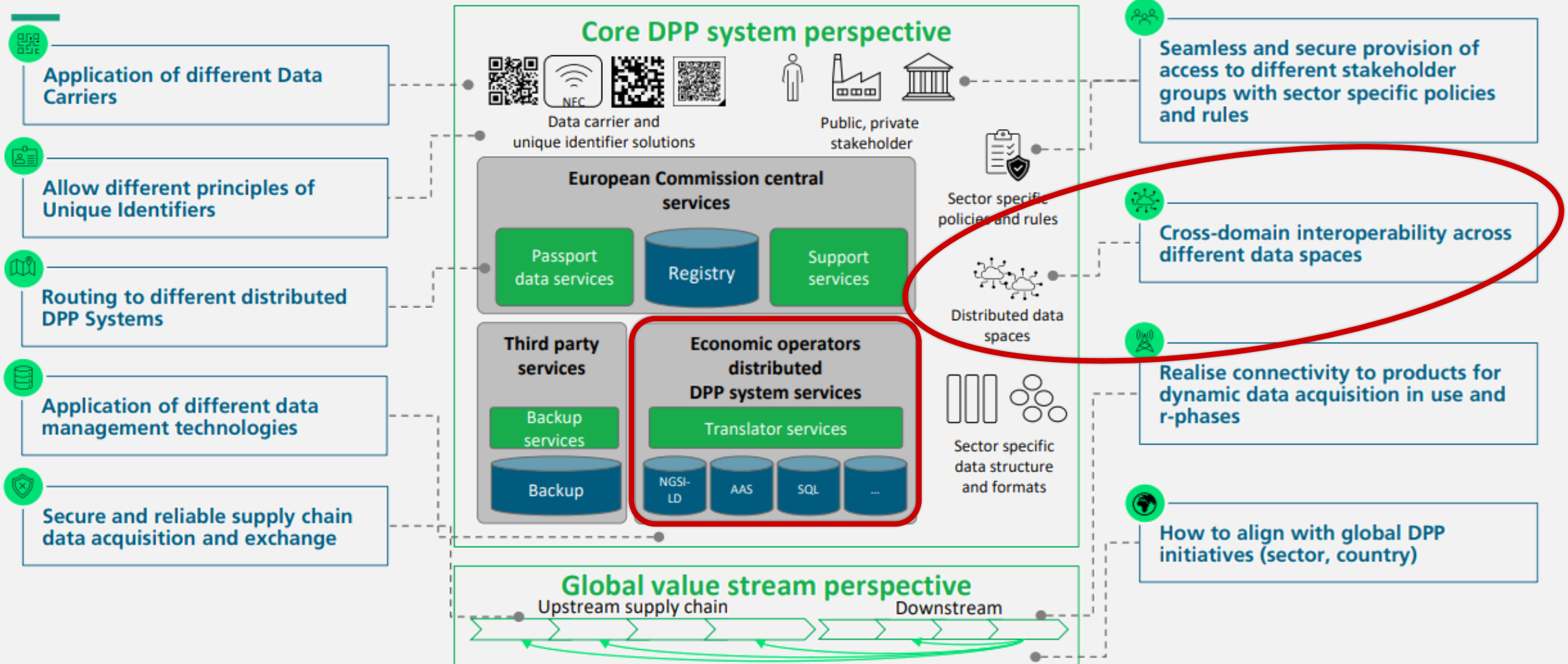


The Vision: A Network of Federated Data Spaces



- 1 funded under IPCEI-CIS
- 2 funded under 7th Energy Research Program

JTC 24: The Validated Blueprint



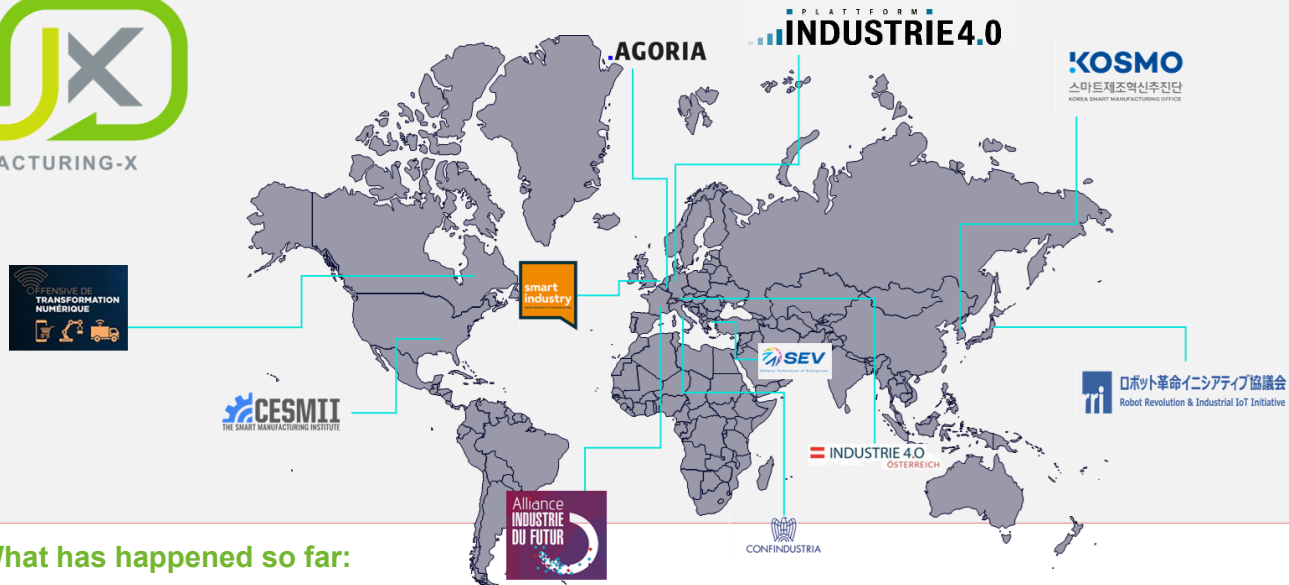
CIRPASS 2: First DPP Cross Sectorial Pilots



- Funded by the European Commission under the Digital Europe Program
- 3 years (May 2024 – April 2027)
- 13 use cases
- 50 partner
- Total funding: 12,6M€



International Manufacturing-X Council: A global Alliance 4 data



What has happened so far:



2023
July
Initiation
Brussels,
Belgium



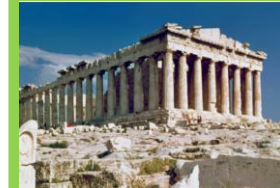
2023
October
Inauguration
Tokio,
Japan



2024
February
Kick-off
Paris,
France



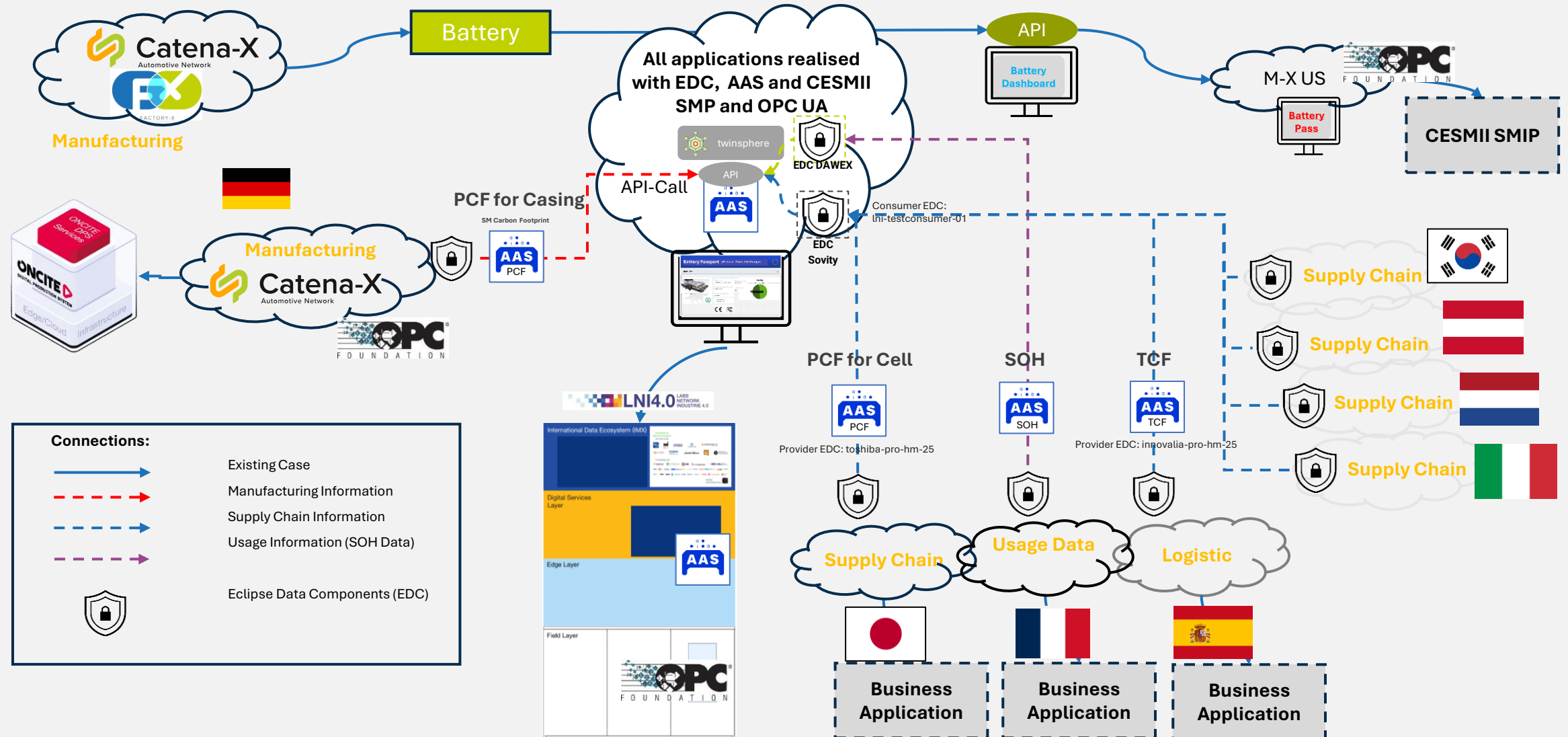
2024
Novem.
USA/
CESMII



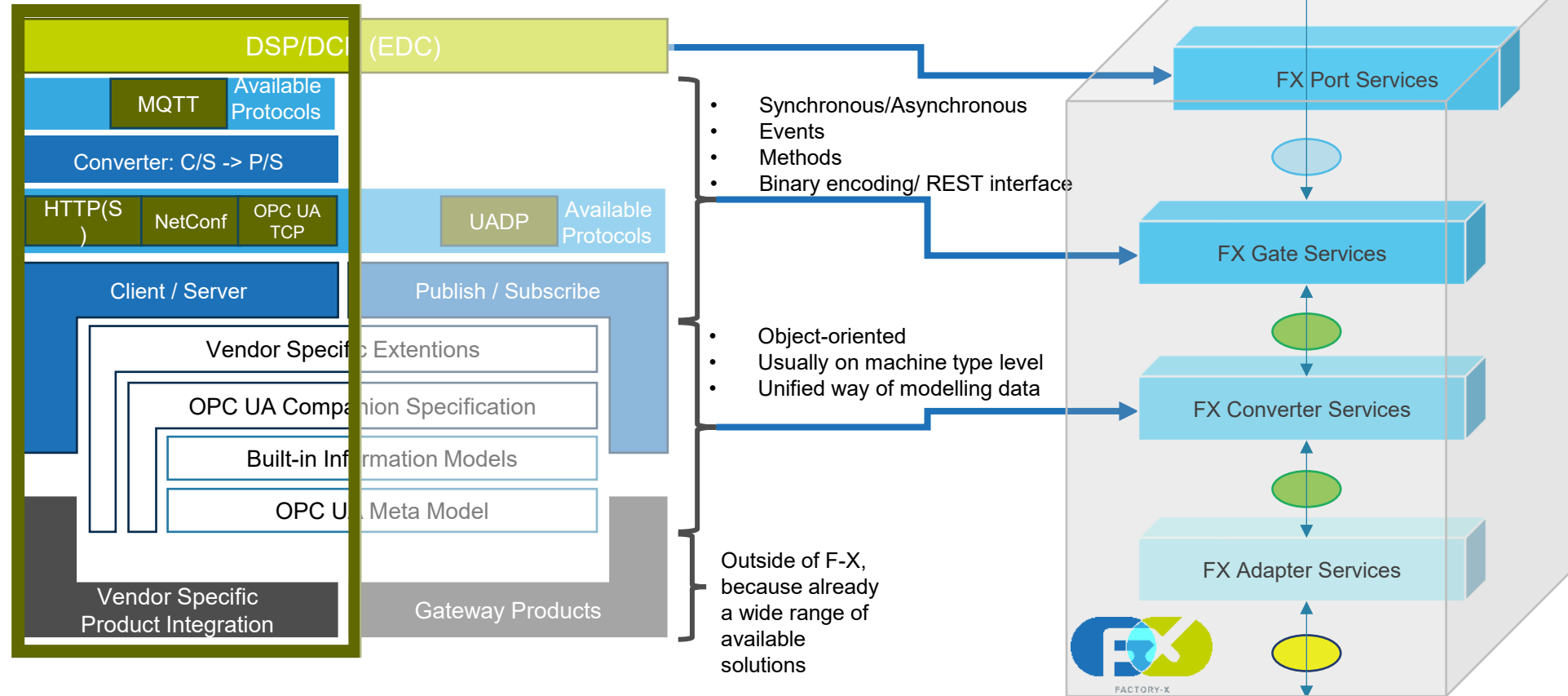
2025
May
Athens/
Greece



IMX Showcase @ Hannover Messe

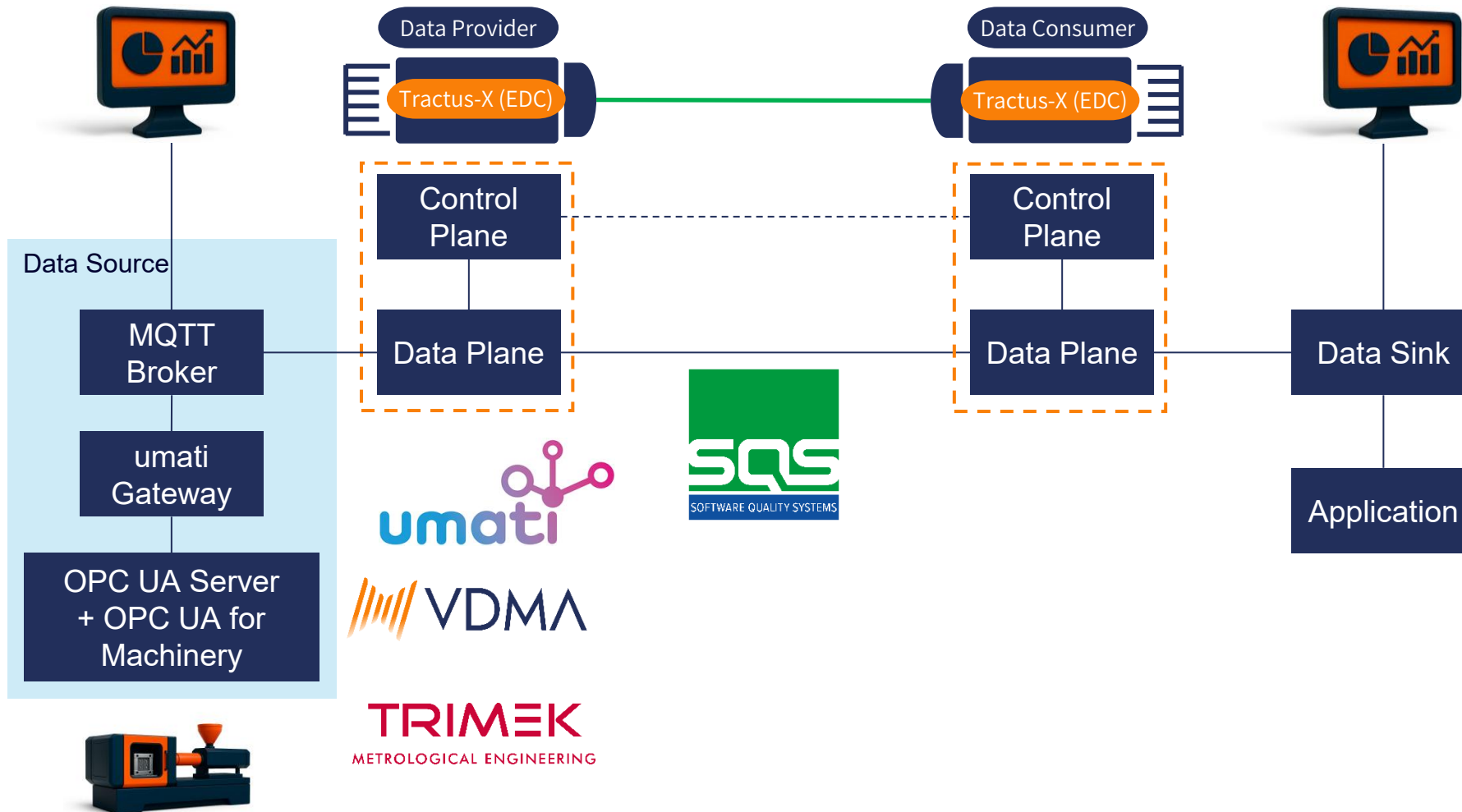


SM4RTENANCE Demonstration of MX-Port Orion



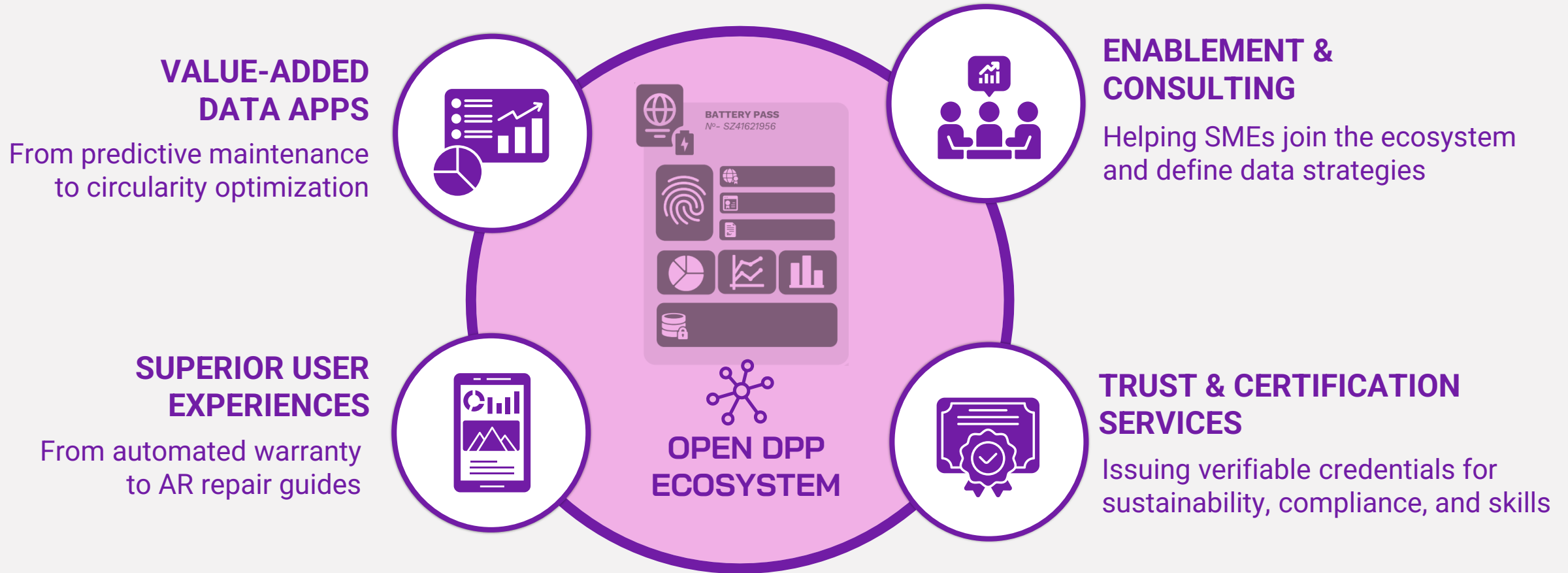
SM4RTENANCE Demonstration of MX-Port Orion

SM4RTENANCE



SM4RTENANCE

The Future: An Ecosystem of Opportunities



The background is a dark charcoal grey. It is decorated with various abstract geometric elements: concentric circles in shades of purple and pink, some with a gradient; solid circles in dark grey and white; thin white lines that curve and intersect; and horizontal bands of fine, parallel lines in purple and pink. Small triangles and dots are scattered throughout the composition.

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iTHANK YOU!