

The background features a scenic view of a forested valley with mountains in the distance. Overlaid on this is a large, semi-transparent globe with a grid pattern. Various hexagonal icons are scattered across the scene, representing different themes like renewable energy (solar, wind, hydro), nature (trees, leaves), and technology (robotics, AI). Some icons are highlighted with a glowing green border. Faint numerical data points are also visible, such as '64.85', '238.38', '333.01', '152.88', '481.79', '710.10', '411.08', '956.49', and '238.38'.

Framing Dataspaces beyond Robotics – Why governed data collaboration matters for real-world AI and robotics

Till Christopher Lech, SINTEF Digital

Data spaces are moving from concept to deployment

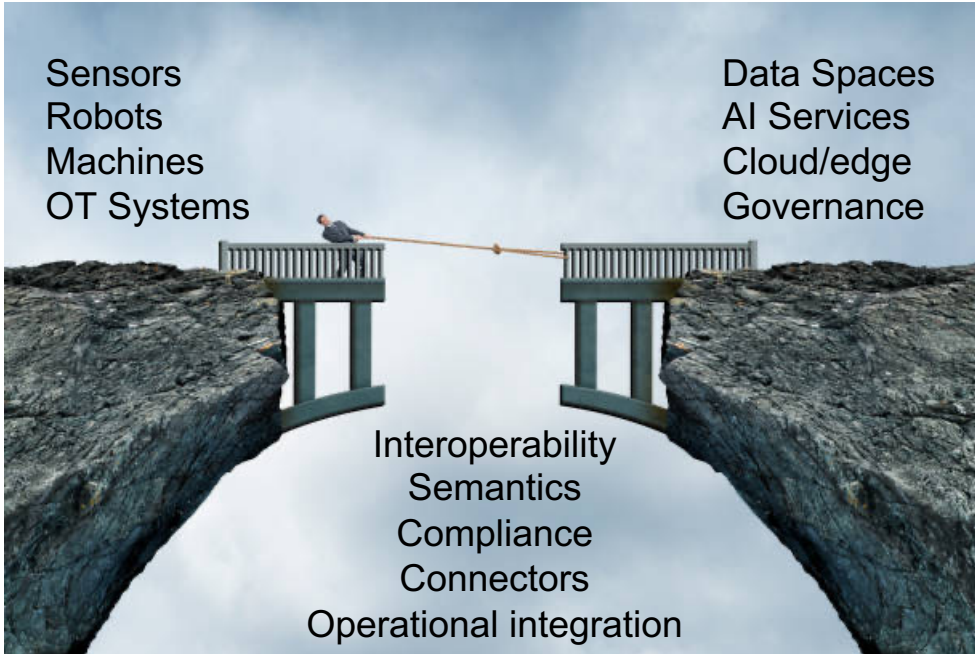


- Data spaces are moving beyond vision documents and pilot rhetoric
- Early operationalisation is now visible in several domains
- Examples include industrial, mobility, healthcare, and smart city ecosystems
- Robotics can build on these experiences rather than starting from scratch

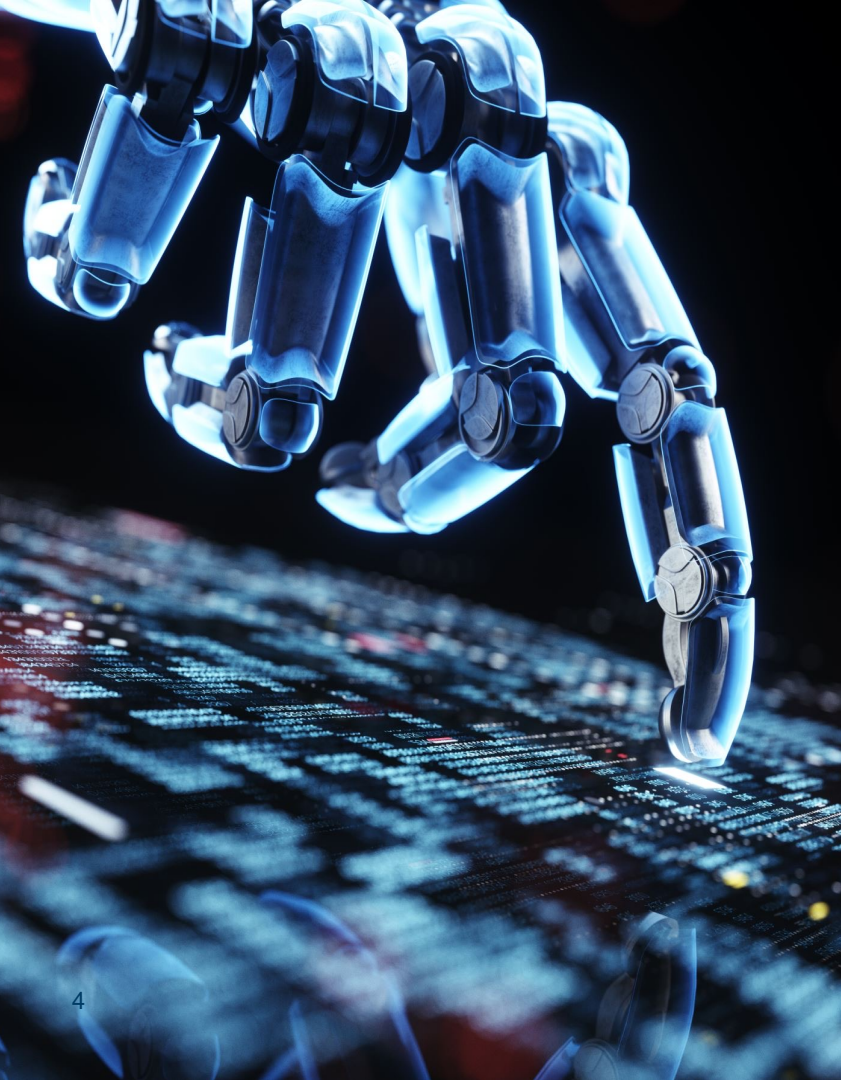
INTERNATIONAL DATA SPACES ASSOCIATION



Robotics has strong reasons to care — but also specific barriers



- AI-powered Robotics depends on OT and IT integration
- The OT–IT gap makes interoperability harder than in many other domains
- That is one reason robotics has lagged behind in data space uptake



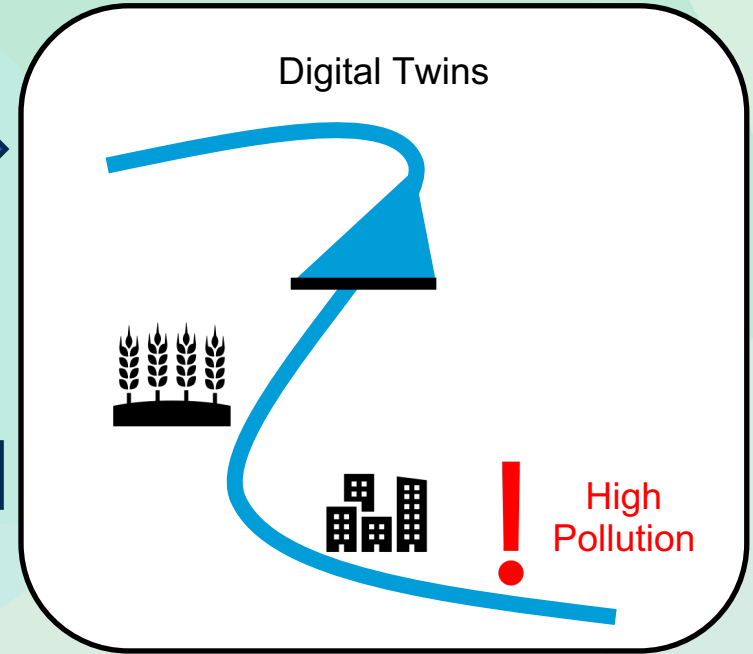
What's in it for robotics, though?

- Access to richer operational and contextual data across actors
- Better basis for distributed learning and data-efficient AI
- Improved traceability, trustworthiness, and explainability
- New opportunities for ecosystem collaboration and service innovation

- **Better adaptation, more scalable deployment, and AI that performs better in real operations**

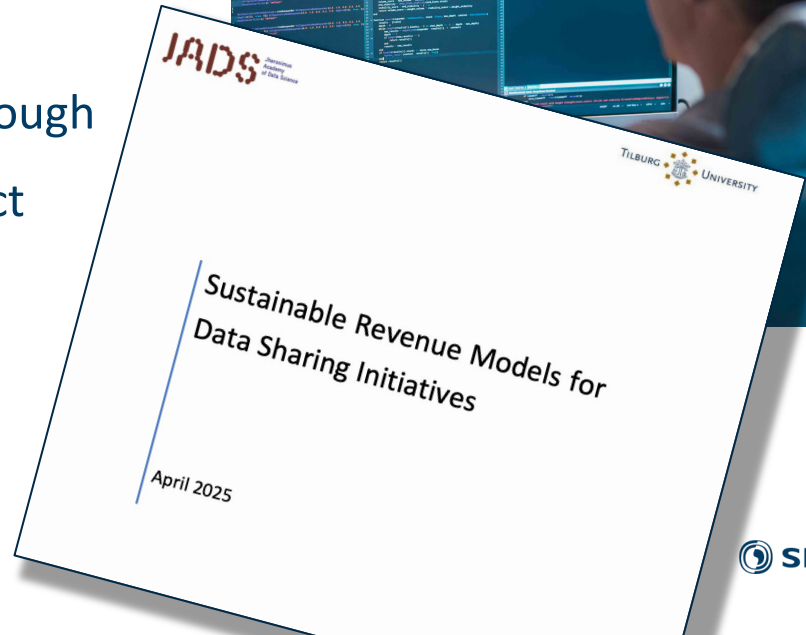
A lesson from other domains

The Oslofjord Scenario



The key lesson: Start with use cases

- “If you build it, they will come” has not worked for data spaces
- Building infrastructure first is not enough
- The right starting point is high-impact use cases with clear value for participants
- Is there a viable business model?



What needs to happen next...



Identify the highest-impact robotics and AI use cases



Building a “data culture”: Derive and curate data, interoperability, and governance requirements from those use cases



Scale from focused pilots to operational ecosystems



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Key Takeways

- Scaling AI-driven Robotics is depending on well-functioning data ecosystems
- Bridging the OT-IT Gap is an important part
- Think use cases and value creation before infrastructure

