

New Strategic Developments in Germany and our bilateral Cooperation with Japan

Markus Heß, Deputy Director General Federal Ministry for Economic Affairs and Energy Tokyo, 19th December 2019

- Industrial Strategy 2030
 - ⇒ based on the proven principles of social market economy.
- Goals: prosperity & growth, sustainable jobs.
- Three pillars / action items:
 - Improve framework conditions
 - 2) Strengthen new technologies
 - 3) Maintain technological sovereignty
- And: Building blocks of a European industrial policy.





2030 VISION FOR INDUSTRIE 4.0

Shaping Digital Ecosystems Globally

Autonomy

Scope for action delivers competitiveness and control of personal data in digital business models.

- Technology development
- Security
- Digital infrastructure

Interoperability

Cooperation and open ecosystems permit plurality and flexibility.

- Regulatory framework
- Standards and integration
- Decentralised systems and artificial intelligence





Sustainability

Modern industrial value creation ensures high standard of living.

- Decent work and education
- Climate change mitigation and the circular economy
- Social participation



1. Autonomy / Sovereignty

Project GAIA-X: A Federated Data Infrastructure as the Cradle of a Vibrant European Ecosystem

· Customers Intermediaries for services Domains Data ecosystem **GAIA-X tasks** Protecting legitinate expectations **Creating framework conditions** Architecture Traceability Interfaces Data classification **GAIA-X** Processes between actors Repository Interoperability and interconnectivity Decentalised distribution is • Directory of service providers and nodes Making arrangements for • Identity management Openness Conditions of participation Quality monitoring List of participants Rules and "data contract" Certification **Coordinating operations** Necessary central services Cloud service provider

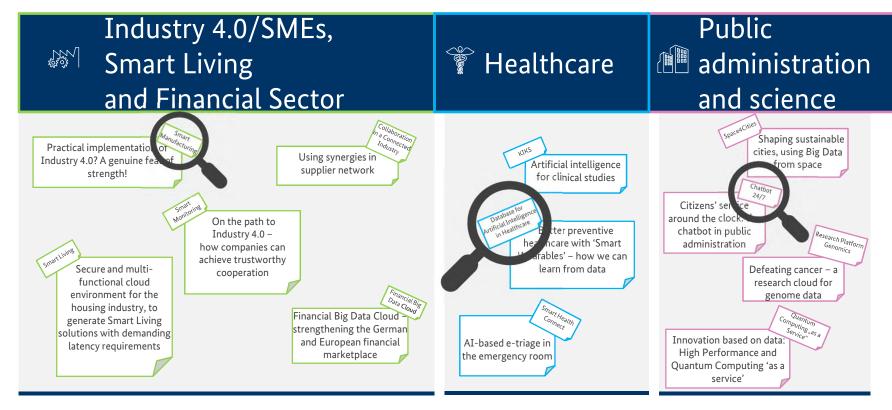
Edge cloud service Plander *Chin tode's

involved

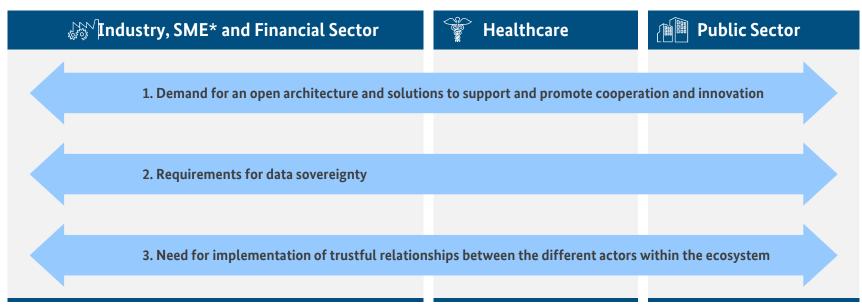
governance

Infrastructure Ecosystem

Added value of a European ecosystem: Use cases



Three aspects run like a thread through all 12 Use Cases



*small and medium-sized enterprises

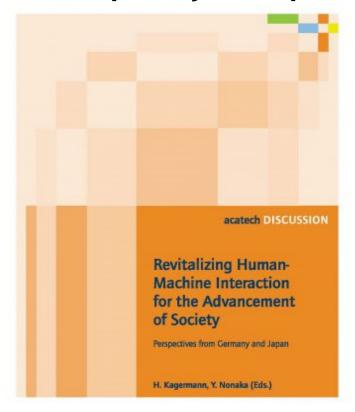




2. Interoperability: Economic impact of B2B platforms in Germany

- Implementation of digital B2B platforms still in an early stage
- 30% of industrial companies used at least one of two platform types (mainly transaction platform, then IoT platforms);
- 9% use both platform types simultaneously
- 15% plan to join platform activities by 2021
- Platform business: 1.5% gross value added of manufacturing industry.
- This share could rise to 2.3% by 2021 and even to 3.0% by 2024;
- Vast majority of current platform users (who themselves are platform operators) barely integrate third-party offerings.
- ⇒ Minimal scaling possibilities
- ⇒ Interoperability absolutely necessary for scaling up

3. Sustainability – Example: A joint Japanese-German Project













Thank you very much for your attention.