DATA ACT –

Implications for IoT

Rolf Riemenschneider
Head of Sector Internet of Things

30 November 2021
European Strategy for Data and related legislation

4 key instruments

- **Nov 2020**
  - **Data Governance Act**
  - Ensure **TRUST** in data transactions
    - Public sector data, private sector data and personal data voluntarily made available by data holders

- **Dec 2020**
  - **Digital Market Act**
  - Regulate **MARKET POWER** based on data
    - Personal data and private sector data held by online platforms and originating from the users (both businesses and individuals)

- **Q4 2021**
  - **Impl. Act. High Value Datasets**
  - Unleash the socio-economic potential of data as a **PUBLIC GOOD**
    - Public sector data of high value

- **Q1 2022**
  - **Data Act**
  - Ensure **FAIRNESS** in the allocation of data value among the actors of the data economy
    - Private sector data, personal data and co-generated (IoT) data

Complemented by sectoral legislation

- **2022**
  - **Access to in-vehicle data**
  - Promote a competitive market on car data services, expanding the current legislation on non-discriminatory access to repair data

Existing legislation

- **Directive 96/9/EC on the legal protection of databases**

- **General Data Protection Regulation** – Regulation (EU) 2016/679
Data Act overview

**B2B DATA SHARING**
Mostly non-personal data

- Right for users to access the data they generate through a device or service and to allow 3rd parties to access it
- Tools to help manufacturers or service providers to control data use (smart contracts, APIs)
- Exclusion of machine-generated data from the scope of the database *sui generis* right

**B2C DATA SHARING**
Mostly personal data

- Rules for data requests by national and EU bodies in case of public emergencies and specific public interest situations
- Compensation rules and safeguards for private sector
- Structures to facilitate B2G data sharing + "once-only principle"

**B2G DATA SHARING**
Mostly non-personal data

- Contractual transparency

**DATA INFRASTRUCTURES**
Mostly non-personal data

- Switchability requirement for providers of cloud services
- Requirements to prevent unlawful 3rd country data access

---

**Better cross-sectoral standardisation**: legal basis for the Commission to act
OpenDEI: Design Principles for Data Spaces

- Principles for Data Governance / Data Sharing:
  - Data Spaces supported by an **Ecosystem**
  - Synthesis of **building blocks**
  - Soft Infrastructure (9 building blocks)

Courtesy: IDSA, InnoPay, **OPEN DEI CSA**
https://www.opendei.eu/
Industrial IoT: Where are we heading at?

Finding the Perfect “Core-Cloud-Edge” Infrastructure Workload Balance

Evolving ecosystem, new architecture, functional enhancements, and consumption models

From ad-hoc to by Design Data Management & Security

Hybrid approaches including emerging technologies such as LPWA and 5G

Going beyond mere data collection towards new IoT-driven business models and data monetization

From Descriptive to Predictive and Artificial Intelligence-infused Analytics

Source: IDC European IoT Practice, 2019
Visionary use-case for sector coupling: Energy connected to Electromobility and Smart Buildings

Optimisation of renewable energy production and usage

Bi-directional EV-charging

Smart Home and Buildings

Renewable Energy

Delivering a fair and green deal for consumers:
• Market push through e-Mobility
• Efficient integration of renewables
• Integrated smart home/building services through IoT
• Storage / EV batteries to mitigate peak capacity

R&I – Policy space:
• Connected and interoperable x-sector data spaces
• Decentralised intelligence at the Edge (HE Cluster 4)
• AFID regulation
• RED II, - Integration of Renewables
• Smart Building Readiness Indicators / new labelling
• International cooperation: Linux Foundation LF Energy, US DoE
THANK YOU

Useful links:

• **European Data Strategy:**

• **BRIDGE Framework:**
  [https://www.h2020-bridge.eu/](https://www.h2020-bridge.eu/)

• **ETIP SNET**

• Cooperation & Support Action OPEN DEI
  [https://www.opendei.eu/](https://www.opendei.eu/)

• **The Alliance of Internet of Things Innovation AIOTI**
  [https://aioti.eu/news/](https://aioti.eu/news/)