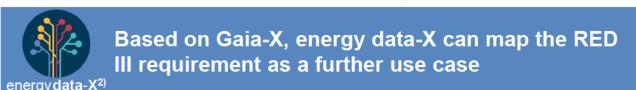


## Framework from EU-Legislation, Federal Ministries and Gaia-X





- Data Governance Act: supports the setup and development of Common European Data Spaces in strategic domains (cross-sectoral instrument)
- EU Action Plan: Europe needs a common European energy data space and must start deploying it by 2024 at the latest
- RED III: requires data provision out of the BEV-battery from OEMs non discriminant and free of cost
- Gaia-X: is creating the framework for an interoperable data infrastructure,
  based on open-source principles and full data sovereignty of data owners<sup>1)</sup>



Supported by:



on the basis of a decision by the German Bundestag

<sup>1)</sup> https://gaia-x.eu/gaia-x-framework/

## Five Federated Services as an Entry Point into the Energy Data Space



### **Energy data space**

### **Data Sovereignty Service**

Access to the data space, which also implements the rules on who may use which data and with what level of security, e.g. regulated grid operators with different rights than a non regulated energy service provider/distributor



#### **Compliance**

What rules exist for data exchange, e.g. which data/services may be used by which participant for what purpose and for how long

## Service Offering / Federated Catalogue

Description of the data/services offered according to an agreed data model

Finding the data/services you are looking for via a catalogue that describes the data and, for example, its granularity

### Portal/API, Clearinghouse

Registration/onboarding in the data space Machine to machine communication via APIs for automated access to data/services

(How are services billed?)

### **Identity & Trust**

What identity do participants have, how do they gain access, e.g. what market role does a participant have, is the participant really who they claim to be

# Within Framework of the Energy Data Space, Participants Realize Cross Sector Use Cases





### Framework: energy data space

Five **federated services** ensure the secure and sovereign operation of the Data Space

### Participants realizing data exchange via connectors

















... additional participants

### Use cases from participants







**Flexibilities** 



... additional Use Cases

#### **Characteristics**

- Standardized connection to data space
- Use Cases are realized on the basis of participant request
- Open to all market parties
- Non discriminatory, sovereign and secure data exchange
- Cross-sector
- Scaling perspective on European level
- Realization from mid-2025

### **Evaluation and Legislatory Needs**

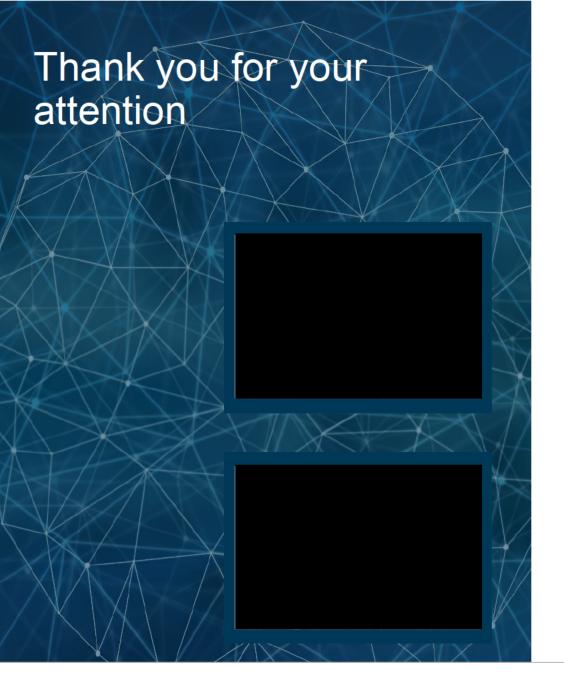


### **Evaluation of data space approach**

- energy data-X can provide a standardized data access cross sectors and participants and ensure a sovereign data exchange
- Regulated and non regulated participants (and platforms) can connect to energy data-X in a non discriminatory way

### Legislatory needs

 Clear statement in legislation with respect to the usage of data spaces to manage data in a sovereign manner and make it accessible in a non discriminatory way (following EU legislation)

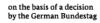




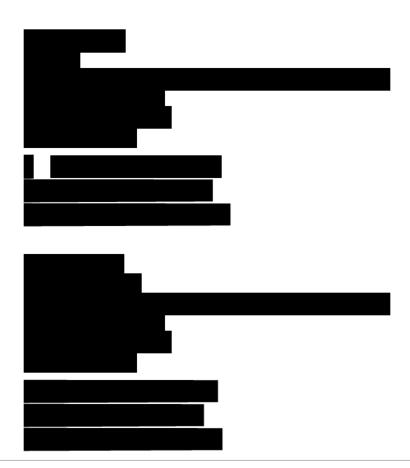












energy data-X