

Data management & governance

View on data sharing and data-driven services from within the Dutch energy sector

Topics for today

- **1. Context & ambition**
- **2. Scope & concept**
- **3. Process & status**



Initial drivers for the Dutch data governance programme



EU CEP: wider exchange of energy data

- CEP (incl. art. 23 & 24, data mgt) to be implemented by end 2020



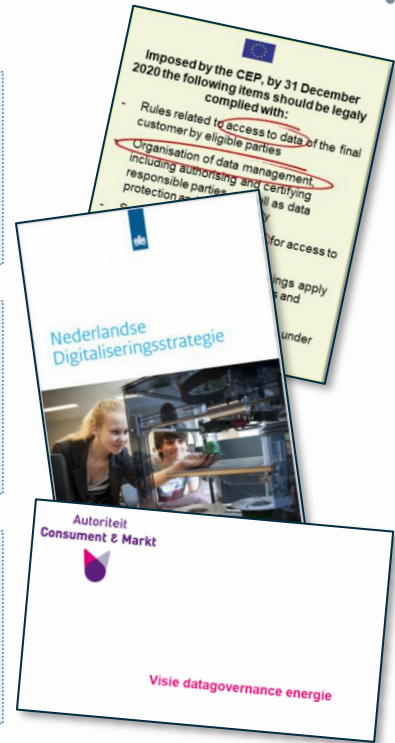
EZK: new Energy Bill development

- Energy Bill addressing CEP implementation (incl. data mgt)
- Ambition: building a digital economy through data sharing coalitions (also cross-sectoral)



ACM: vision on data governance

- Regulator (ACM) identifies shortcomings in existing model and shares vision on data governance



Ambition: improve governance, rules & systems for data exchange & market facilitation



Customer centric

The customer gives individual consent to all 'qualifying parties' (without a legal task) that want to use his data



Collectively

Grid operators are collectively responsible for optimal and independent market facilitation (policy making and execution)



Current roles and responsibilities

Legal responsibilities of grid operators and roles of the various market parties are respected. Codes and sector agreements are complied with



Effective

The sector governance provides fast and effective decision-making for both rules and regulation, and for process and IT modifications



Independent

The market facilitation system operates objectively, transparent, and facilitates the market in terms of societal interests



Wide acceptance

Decisions require a sufficient basis of acceptance by all relevant market parties, taking into account their tasks, roles and responsibilities



Accessibility

Parties get access to data under equal conditions, based on customer consent, a legal tasks, or another valid basis for the processing of personal data



Cost effective and efficient

The cost efficient system builds on existing elements, and ensures optimal coupling of files to ensure that data is stored only once (at the data source) and is accessible 24x7



Future proof

In the future, the market should be facilitated in an optimal way, both physical as well as digital



Quality and service standards

Sufficient guarantees for quality of data and processes; requests from market parties should be treated adequately and at a societal justified cost level

Identifying the data sharing stakeholders in the digital ecosystem of DSOs & TSOs

- **Customers**
- **Existing market parties**
 - Suppliers, Generators
 - Metering companies
 - BRPs
- **New market parties**
- **Government, municipalities**
- **Other sector market parties:**
 - Finance
 - Transport

- **Municipalities**
- **Regulators**
- **Policy Makers**
- **Market Parties**
- **Other grid companies**
- **Other sectors:**
 - Transport
 - Building

Customer & Markets data management



Infrastructure Operations



Grid analysis & Planning



System Operations



- **Customers**
- **Contractors**
- **Installation companies**
- **Other Infrastructure providers**
- **Asset vendors**
- **Cross sectoral (energy & X sector)**

- **TSO & DSO system operations**
- **Flexibility Service Providers**
- **BRPs, CSPs & BSPs**
- **DA & ID market operators**

- **Shareholders**
- **Investors**
- **Policymakers**
- **Media**

... and their specific use cases regarding exchange of energy data

Market Facilitation:

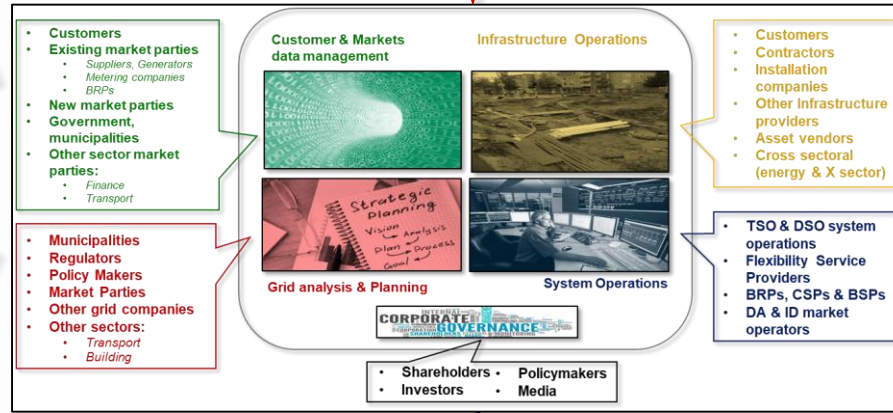
- Traditional market facilitation processes (switching, metering, A&R)
- New services (price comparison, tailor-made offerings, ESCO services, ...)
- Research and statistics (national energy balances, domestic consumption, ...)
- Open data

Planning Alignment:

- City & RES planning data from municipalities
- Roll out planning EV CSPs
- EV planning in public transport
- Energy efficiency plans from building corporations
- Network development planning grid operators

Key enablers:

- Identification, authentication and authorization (consent mgt.)
- Transparency (towards customer): data access rights, data usage, ...
- Operational requirements: data findability, standardization, interoperability, SLAs, ...



Infrastructure Operations:

- Ordering and track & trace
- Operational planning with customers, outsourcers and other infrastructure providers

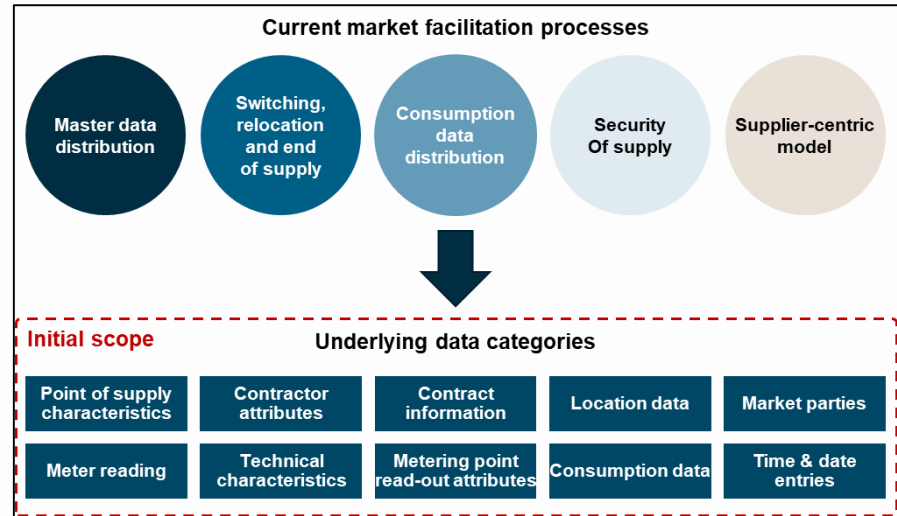
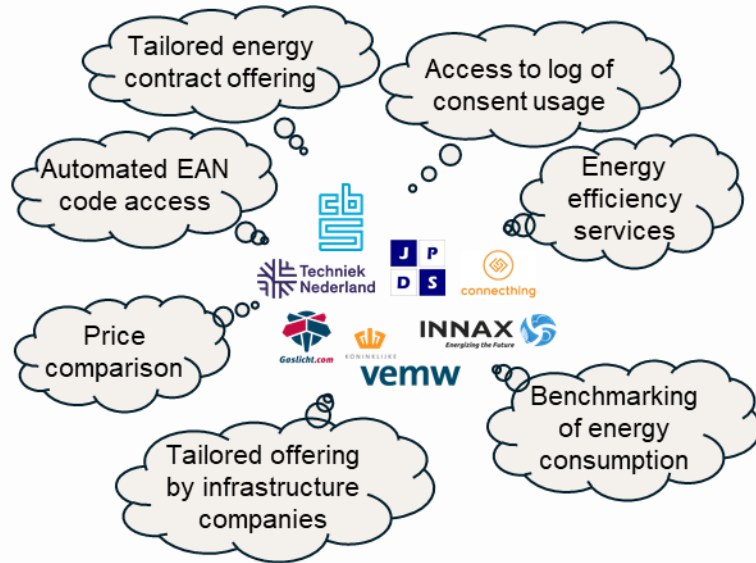
System Operations:

- Customer outage management
- DA & ID grid capacity forecasting
- Market interaction on congestion & balancing
- Flexibility procurement

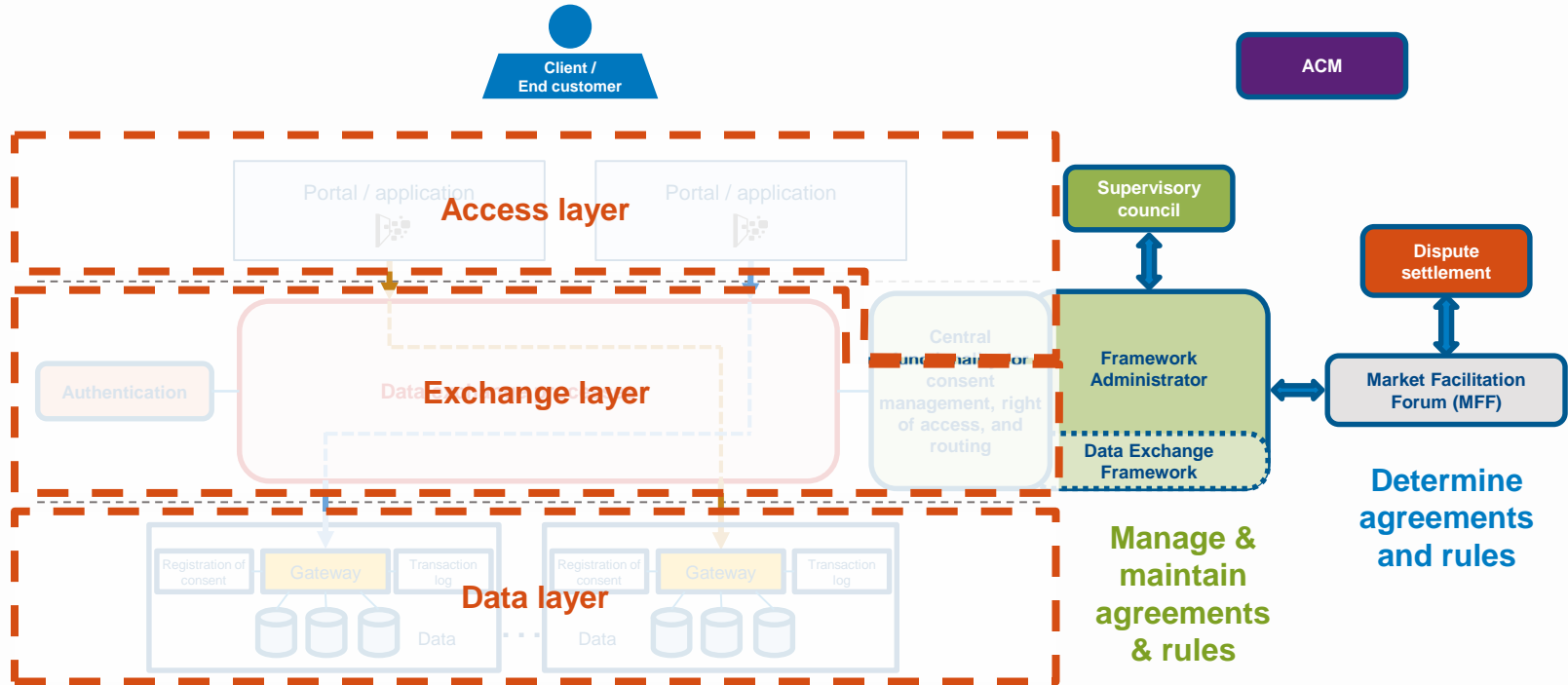
Corporate:

- Corporate performance
- Media communications

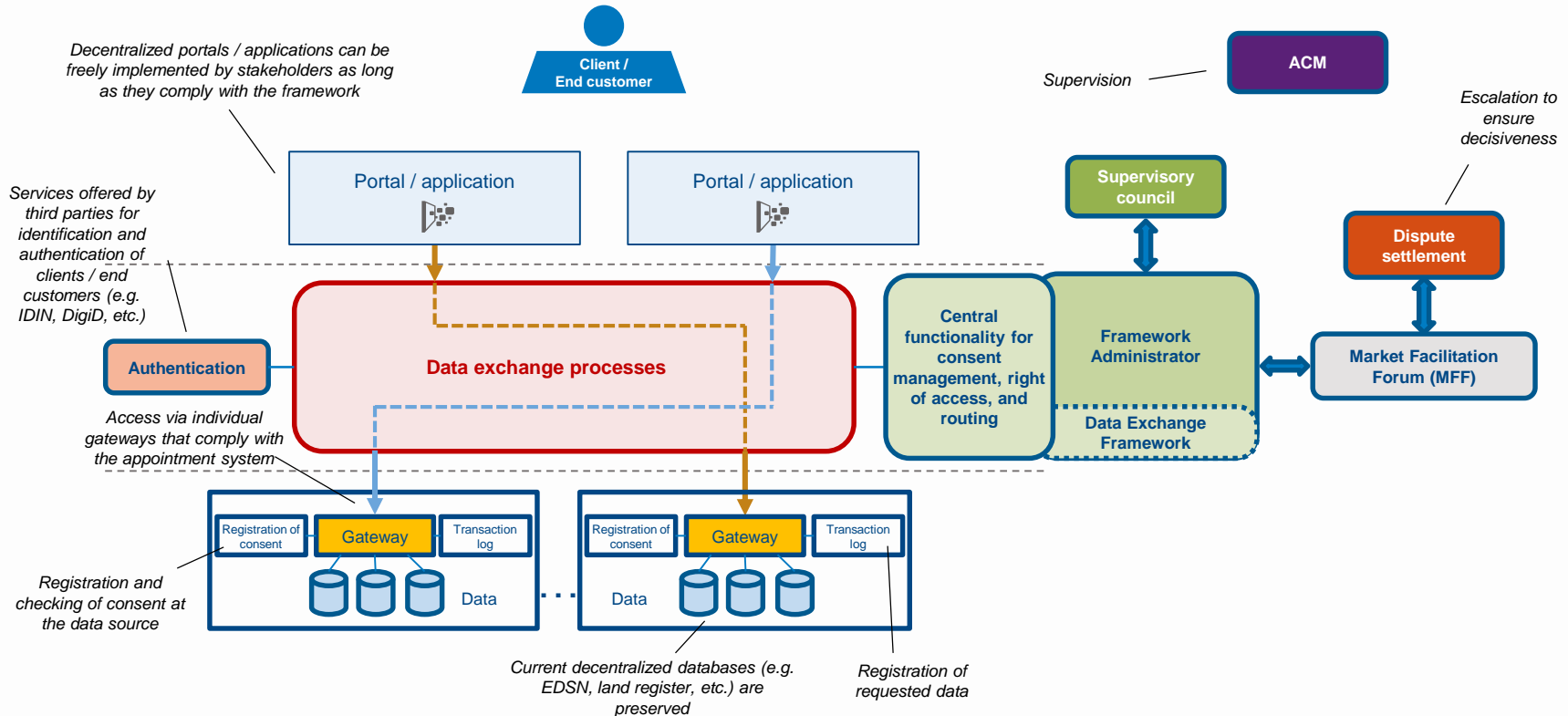
First scope: data for market facilitation processes, driven by stakeholder use cases



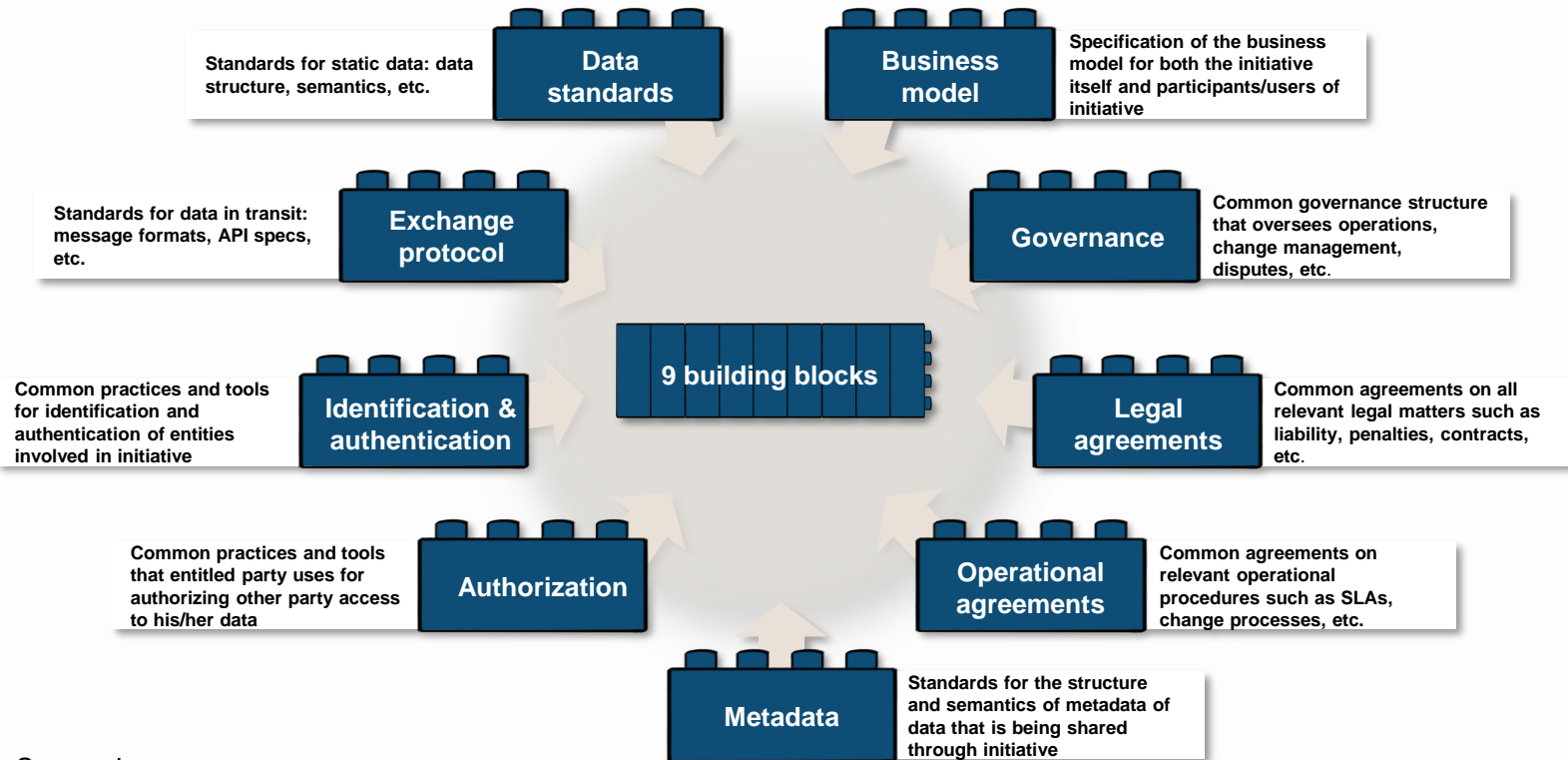
Governance structure allows to set & maintain the rules based on input from market parties



Overview of joint concept: exchange of decentral data based on central framework



Energy Data Exchange Framework components



Clear governance and roles of the energy data exchange framework

The icon for the Market Facilitation Forum (MFF) features several overlapping speech bubbles in various colors (blue, purple, orange, green) arranged in a cluster.

Market Facilitation Forum (MFF)

What?

- Formulates a decision w.r.t. adaptations to the rules regarding:
 - **what** data is exchanged (Information Code)
 - **how** data is exchanged (DEF)

Who?

- Not a legal entity, but an open discussion forum without memberships
- All relevant stakeholders can participate, albeit through representation

The icon for the Framework Administrator shows a cartoon character in a suit holding a magnifying glass over a document, with a target symbol nearby.

Framework Administrator

- Executes decisions
- Facilitates and supports the MFF
- Administers framework w.r.t. process & content
- Coordinates implementation of sector releases

- Legal entity, with a management, topic managers and supporting office
- Execution by the grid operators
- Neutrality secured through supervisory board

Process & status (January 2020)

- 2018: discussions between TSO & DSO on data mgt
- End '18: agreement between TSO & DSO on high level outline and principles of the concept
- Feb-May '19: discussion with ministry (EZK) & regulator (ACM), preparing market dialogue
- June '19: start of open market dialogue sessions with all stakeholders (existing and new roles)
- Dec '19: agreement reached with all stakeholders, positive appreciation of ministry (EZK)
- Jan '20: preparation of implementation ('20-'21)



Market dialogue with all stakeholders 13-12-2019