

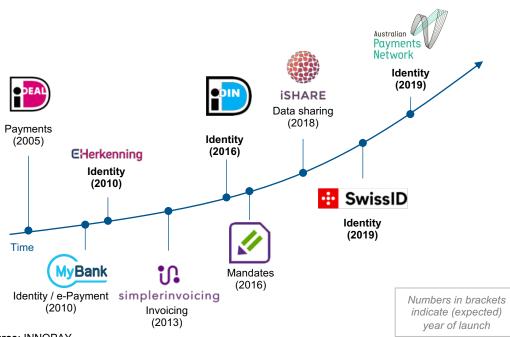
Defining the 'Open Energy Ecosystem' Re-using the digital transactions paradigm

Workshop Energy Open Market Places and the Enabling Technologies



INNOPAY is deeply involved in creation of trust frameworks for 'many-to-many qualified information exchange'

SCHEMES/TRUST FRAMEWORKS CO-CREATED BY INNOPAY



INNOPAY EXPERTISE ON TRUST FRAMEWORKS FOR QUALIFIED DATA EXCHANGE

INNOPAY specialises in **co-creation of trust framework** in areas such as Energy, Identity, Payments, Mandates, Invoicing and Data sharing

- Experience includes large stakeholder MANY TO MANY networks for B2G, B2B, G2B and B2C contexts
- Finding the minimal 'collaborative domain' and the 'competitive domain', i.e. standar-disation on functional, legal, operational, technical and business aspects
- 'Soft' infrastructure, complementing 'hard infrastructure
- Infrastructure is ultimately sector agnostic
- Infrastructure facilitates the innovative ecosystem of actors
- Technology agnostics

Source: INNOPAY

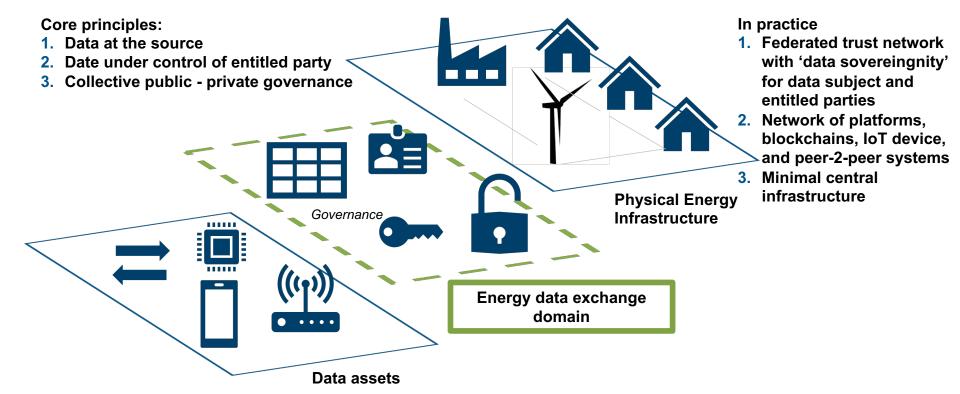


Within the discussion document "Open Energy Marketplaces" the need for interoperability between marketplace solutions is apparent

Policy note: Mechanisms for multi stakeholder approaches: Other identified challenges: For the open energy marketplaces to become a reality, it will be essential to define Portability from blockchain to blockchain or to a service off the chain how the data about demand, supply, and potential flexibilities can be exchanged on Storage of data on block and the security imperative Plug into identity service the platforms in a neutral and non-discriminatory way Trust for data handling Interoperability of consensus mechanisms On-line and off-line trust Interoperability platforms and evolving open-source 'plug-and-play' solutions allow for the creation and growth of marketplace ecosystems. The need for new cross-domain data sources as well as the drive to leverage the original data streams in additional ways will lead organisations to look for external data to leverage. This process allows the establishment of a bidirectional push and pull of internal and external data Flexibility services can be traded in different marketplaces to value the services at most, such as the wholesale market from day-ahead to intraday, the balancing market or the congestion management market(s). These markets may be supported by different platforms. Interoperability of such platforms will ensure proper coordination between these market processes.

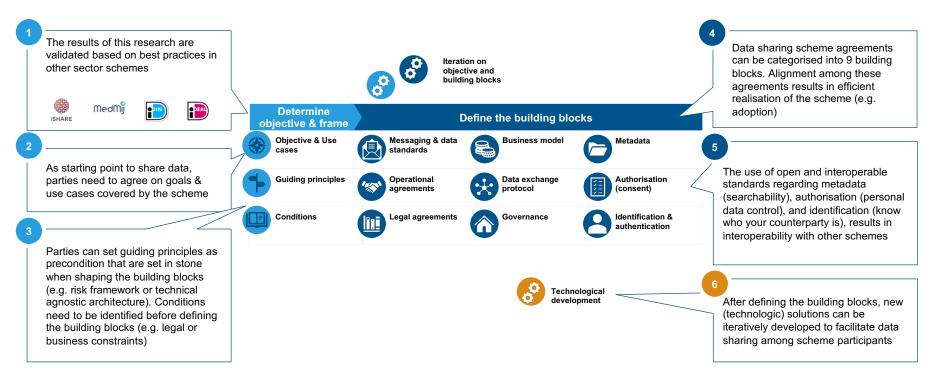


To enable the "energy data exchange domain" an "Open Energy Governance" layer is needed to facilitate multisided transactions



Nine building blocks enable many-to-many data sharing in the energy sector

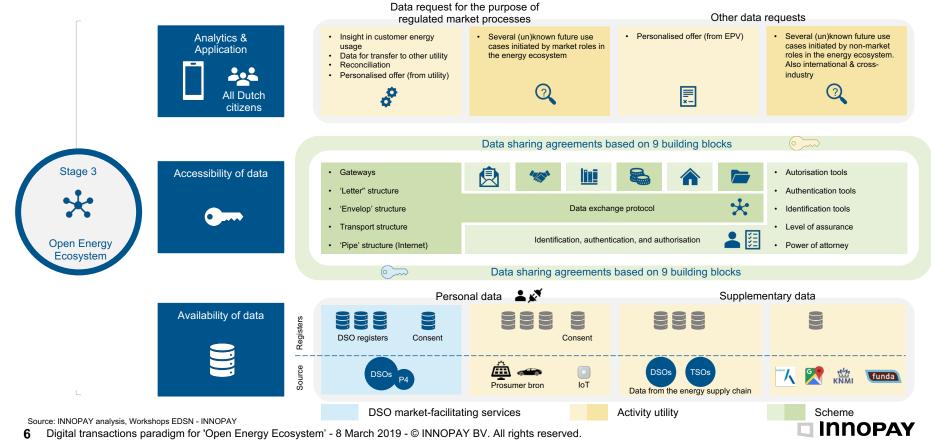
INNOPAY Scheme Canvas Model with the 9 building blocks for a data sharing scheme



Note: Description per building block can be found in the appendix



GDPR and Smart Metering is short term trigger for starting the NL journey toward Open Energy Data Exchange



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