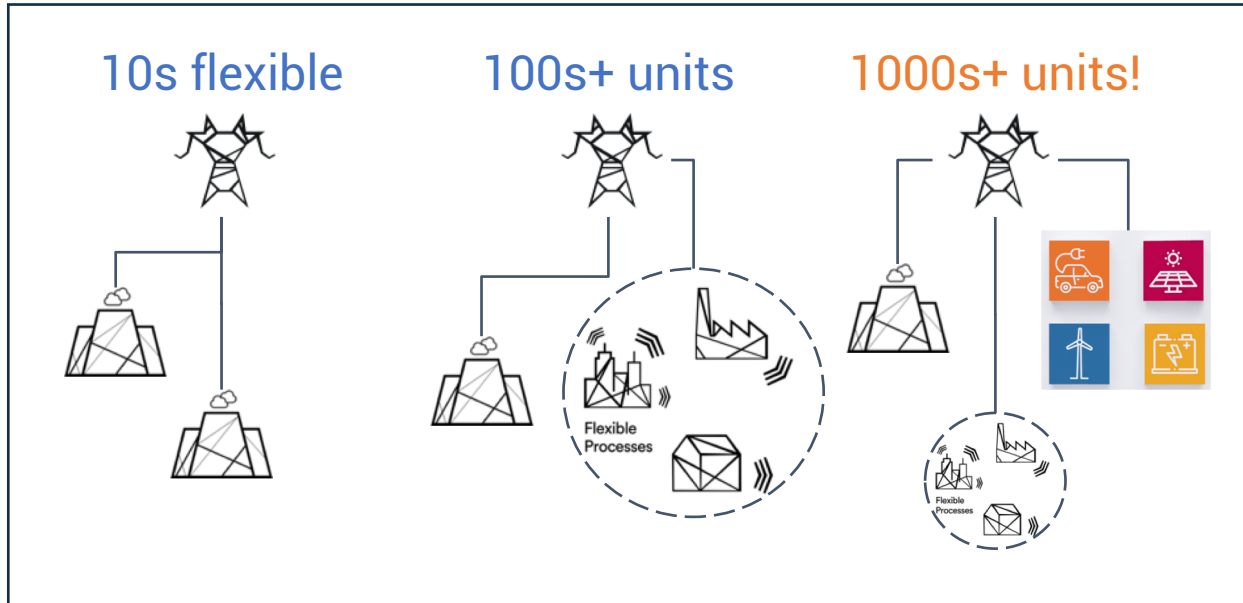


Active System Management and Distributed Flexibilities: the value of TSO-DSO Cooperation

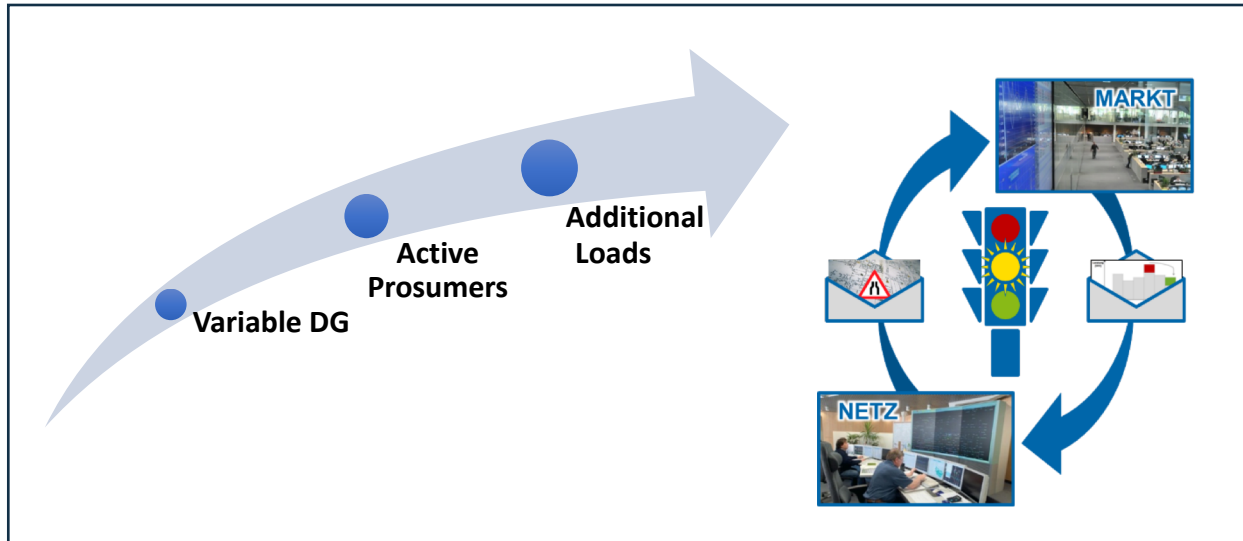
Norela Constantinescu
Manager RDI ENTSO-E

Smartnet project , Arona Italy , May 16th 2019

Flexibility services are needed and evolving

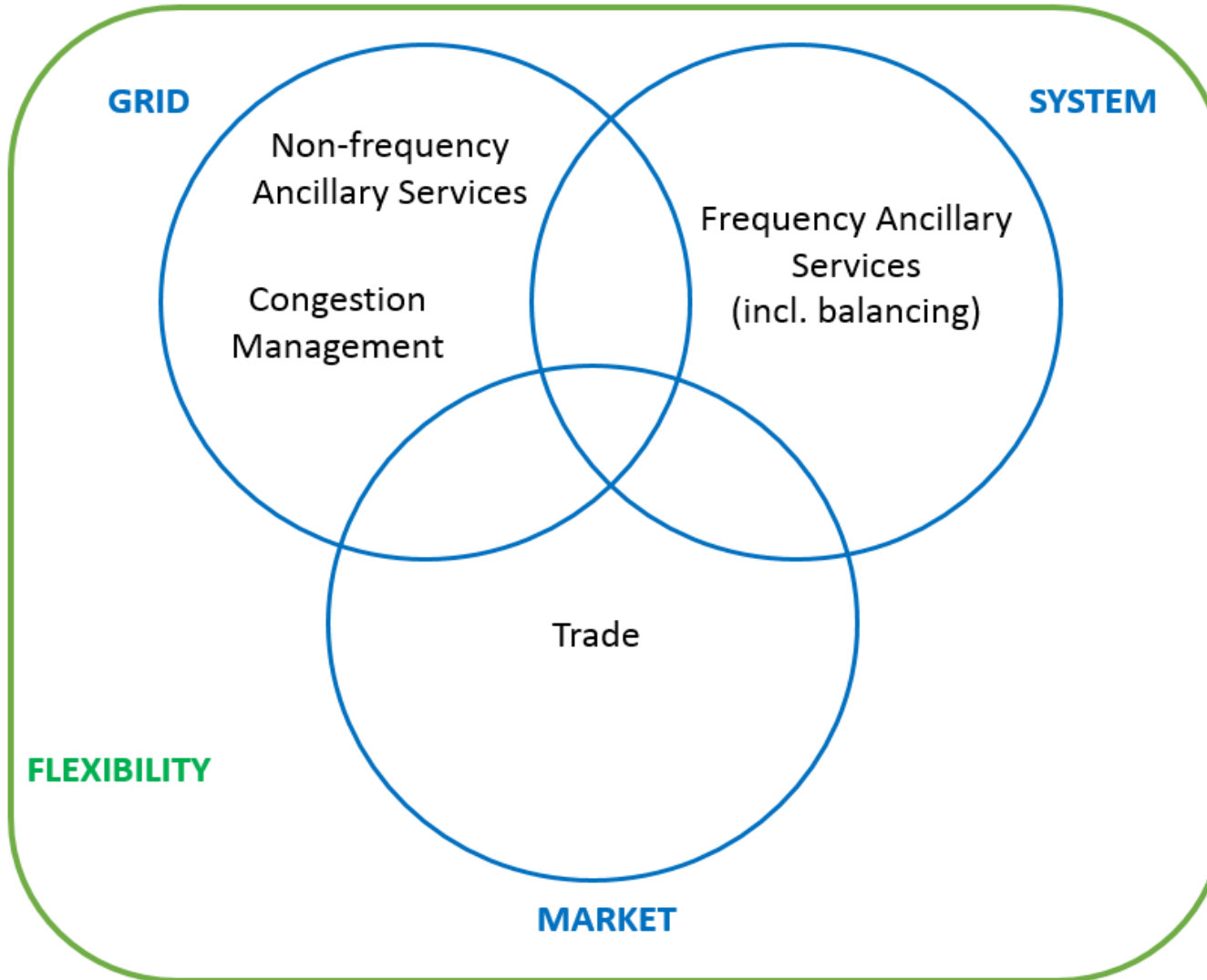


TSO Balancing is evolving

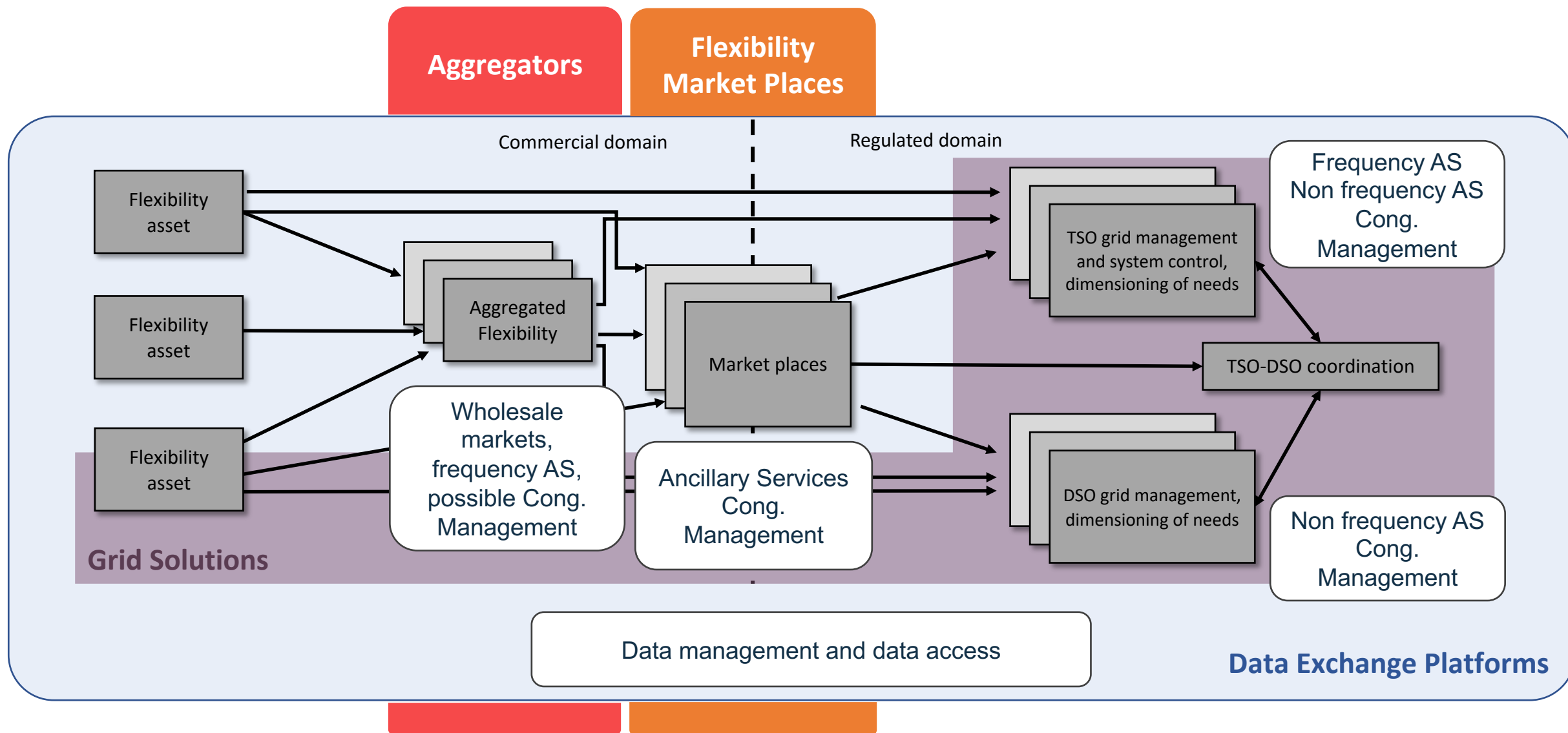


DSO grid is facing challenges

Flexibility services: what does it mean?



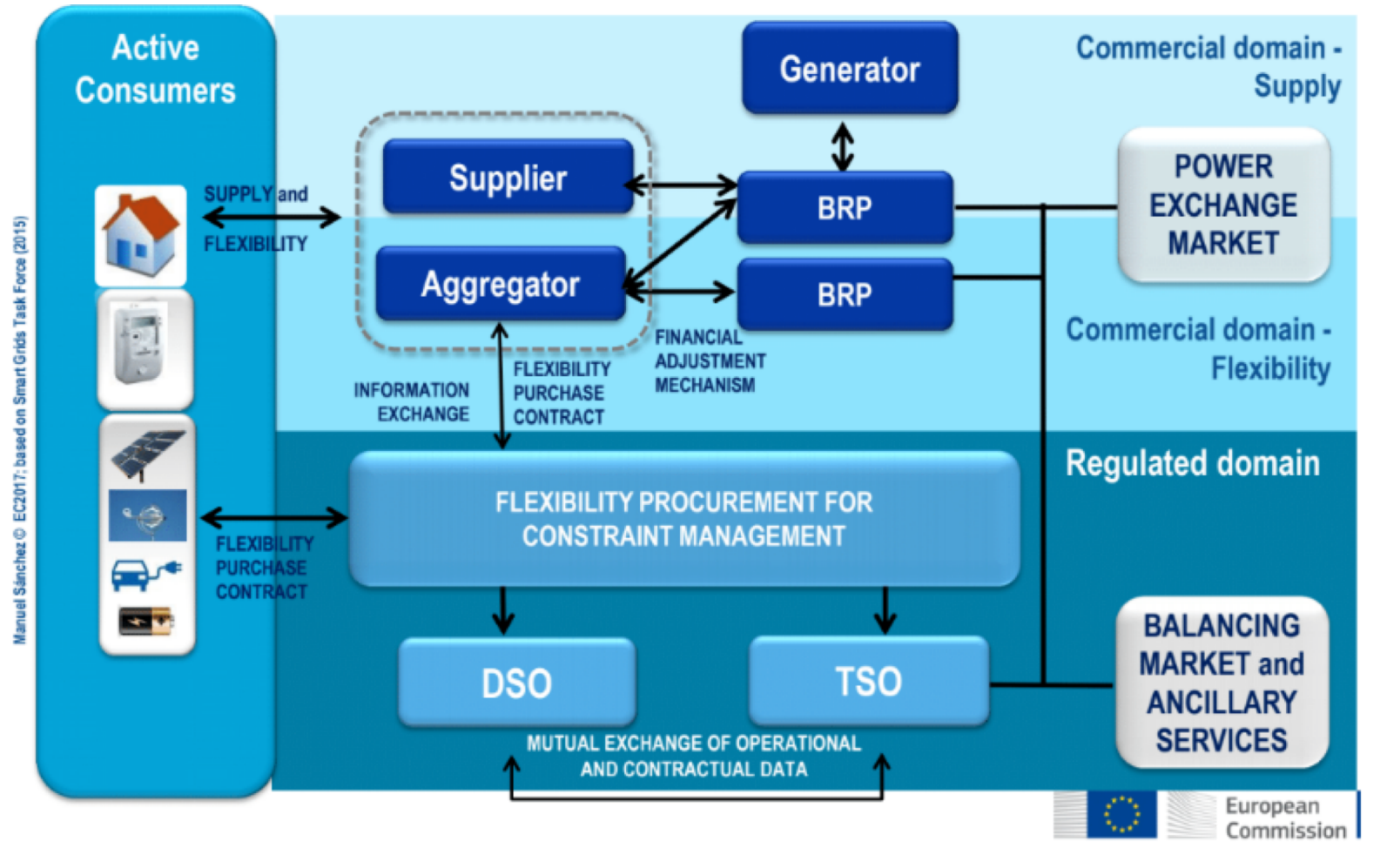
Which platform for which services?



The toolbox of TSOs and DSOs to unleash flexibility potential, beyond network reinforcement: Active System Management



Consumer participation, emerging actors and cooperation between DSOs and TSOs transform the electricity system and grid



Active consumers

Citizen energy communities

Aggregation

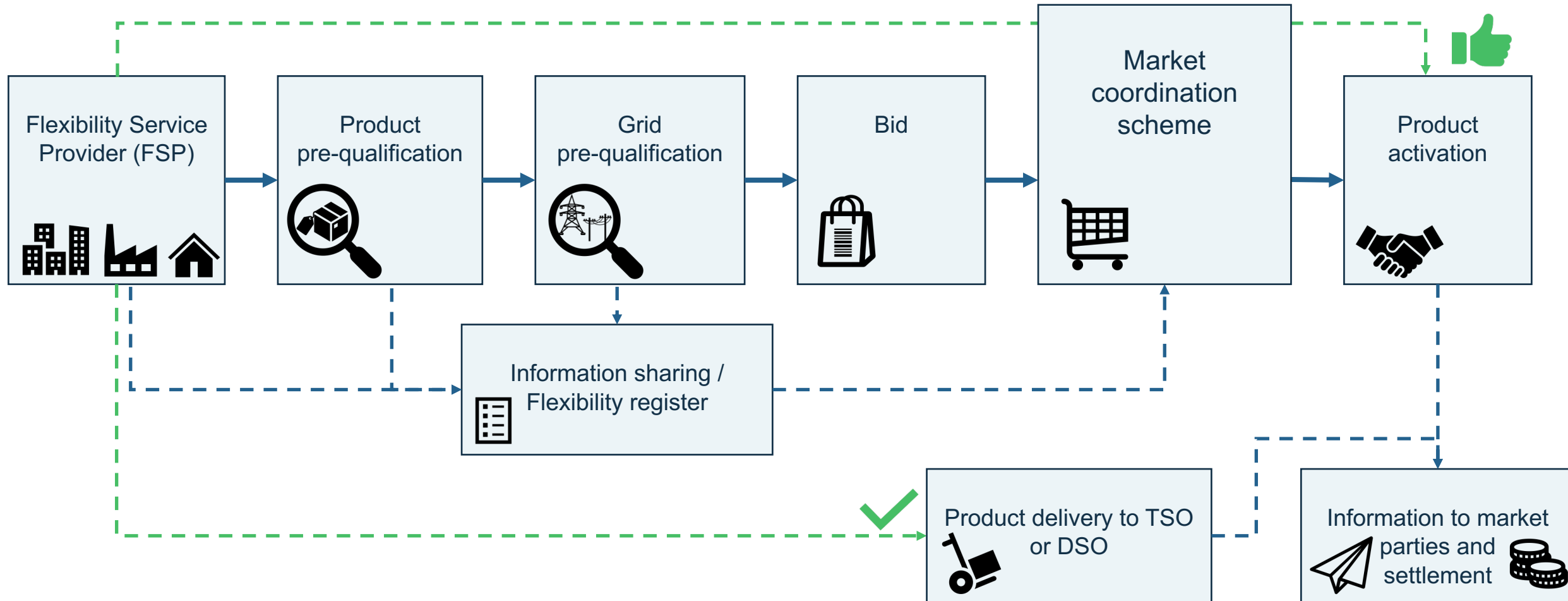
Exchange of data

Market facilitation

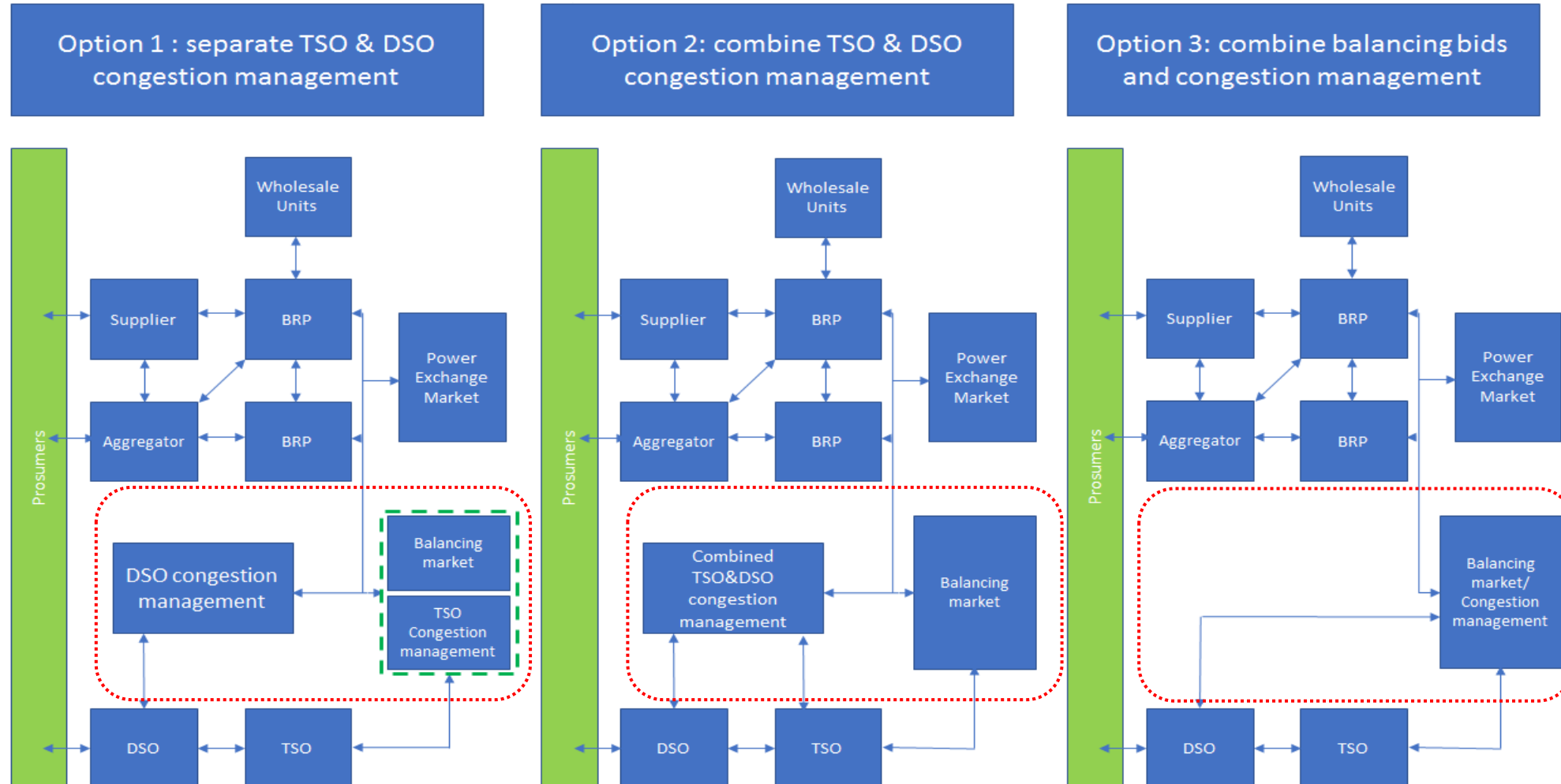
Designing the framework

A common report at EU level on Active System Management to advise regulation on TSO-DSO cooperation

To coordinately use a set of market-based instruments to cost-efficiently and securely manage the electricity systems, across all timeframes and different areas

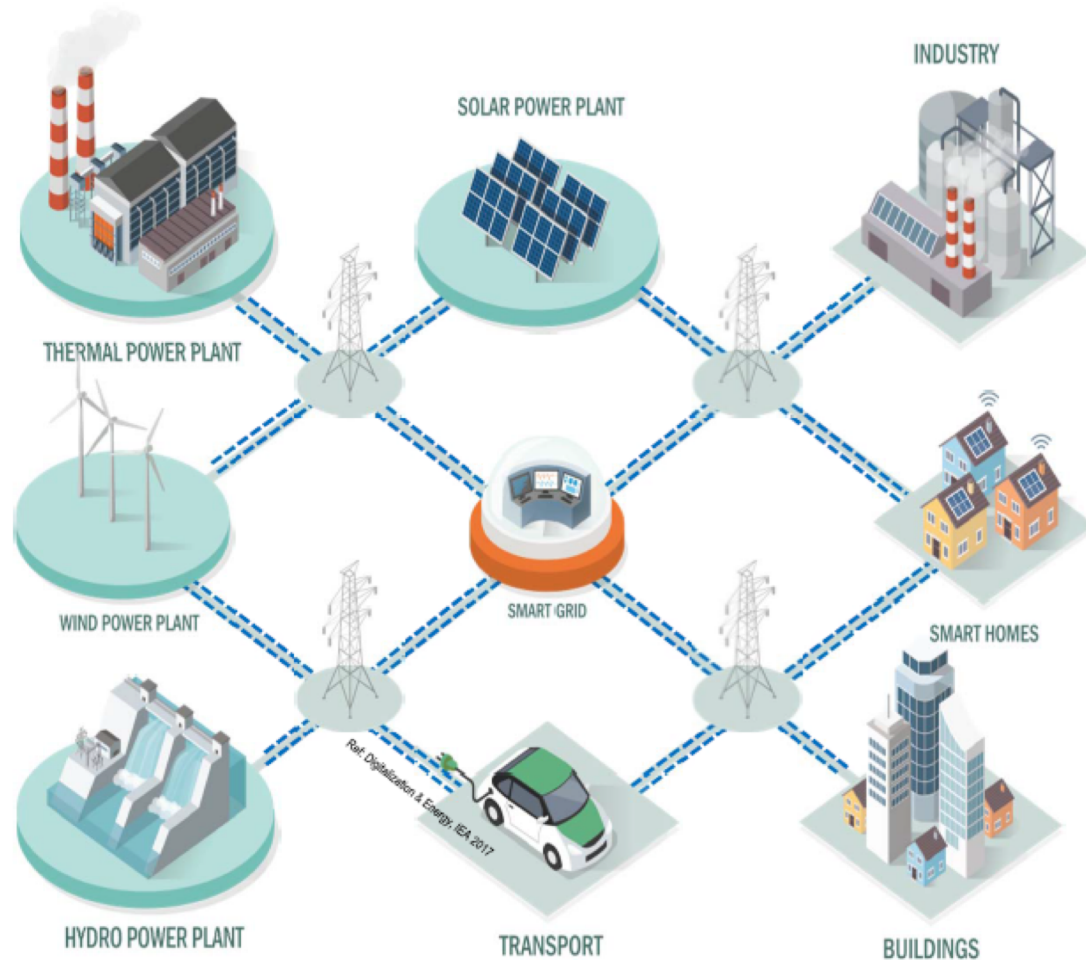


Zoom on the market coordination scheme options



An Integrated system approach

The way forward for a complex, multi-layered and multi-dimensional energy system



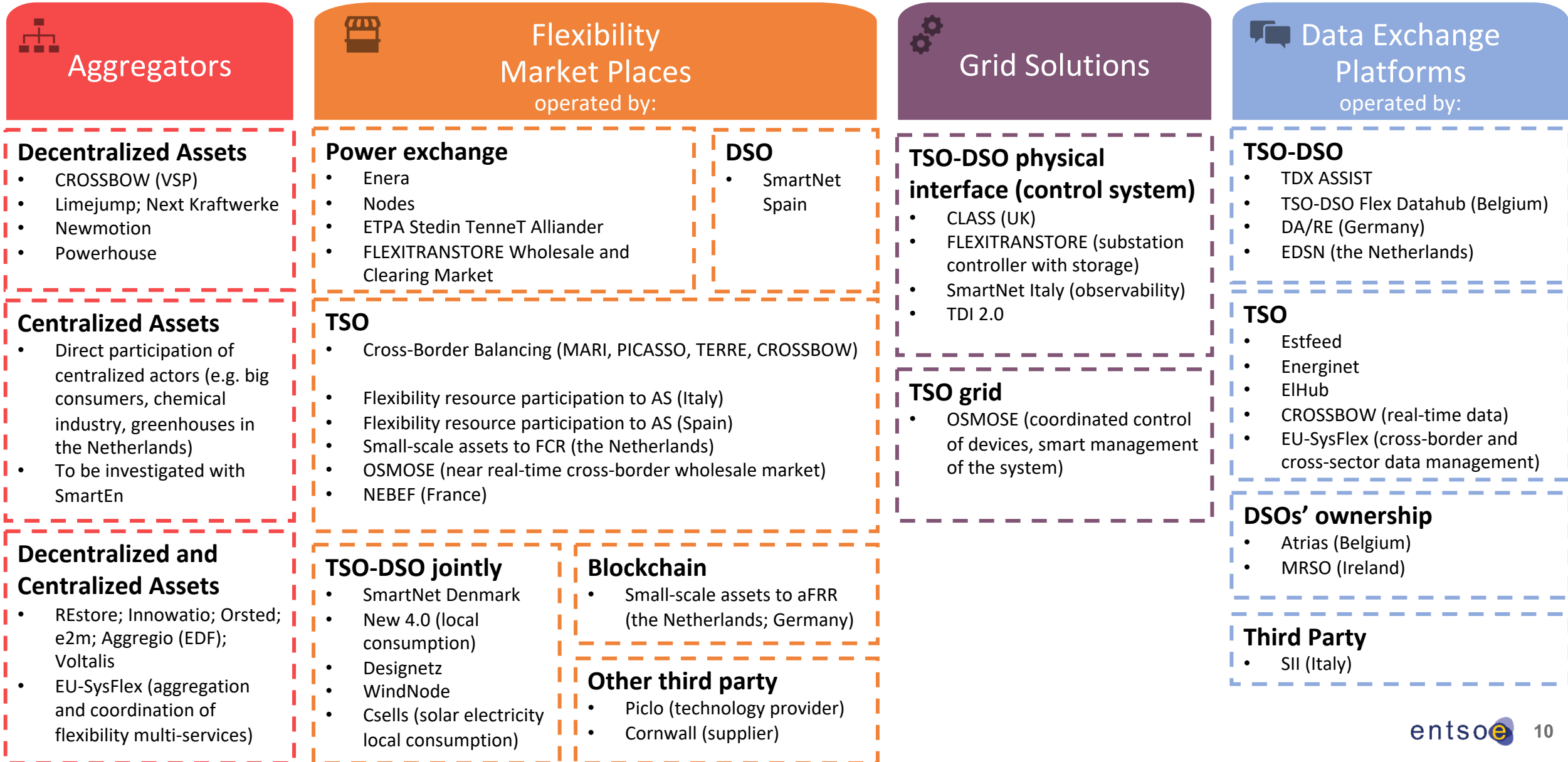
Various actors to deliver different services at different scales

→ TSO and DSO roles and responsibilities as system operators and as neutral market facilitators

→ An efficient level playing field for market parties is required, fostering new services and valuing flexibility services

→ TSO-DSO coordination on mutual processes and data exchanges between them to guarantee a reliable, efficient and affordable operation of the electricity system and grid, and to guarantee non-discriminatory and efficient market operation

Which platform for which functionalities?



Thank you for your attention..