

# *Open Energy Market Places*

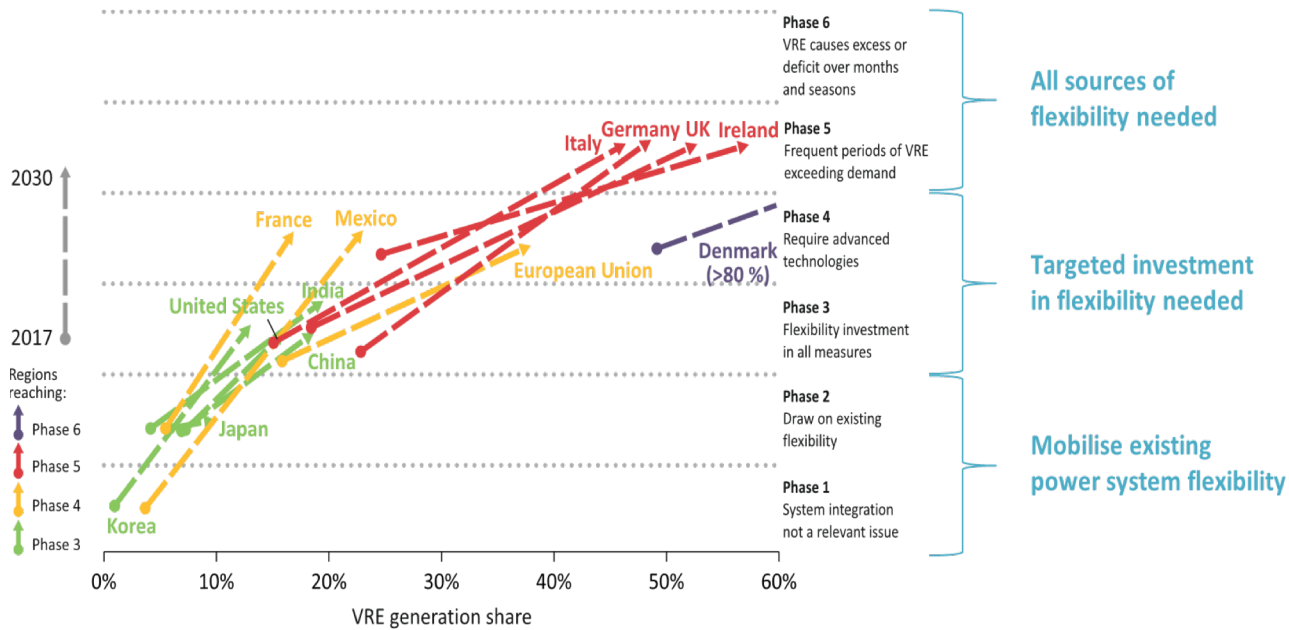
Norela Constantinescu , Lead R&I, ENTSO-E

8 March 2019 , Brussels

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# Flexibility needs and sources

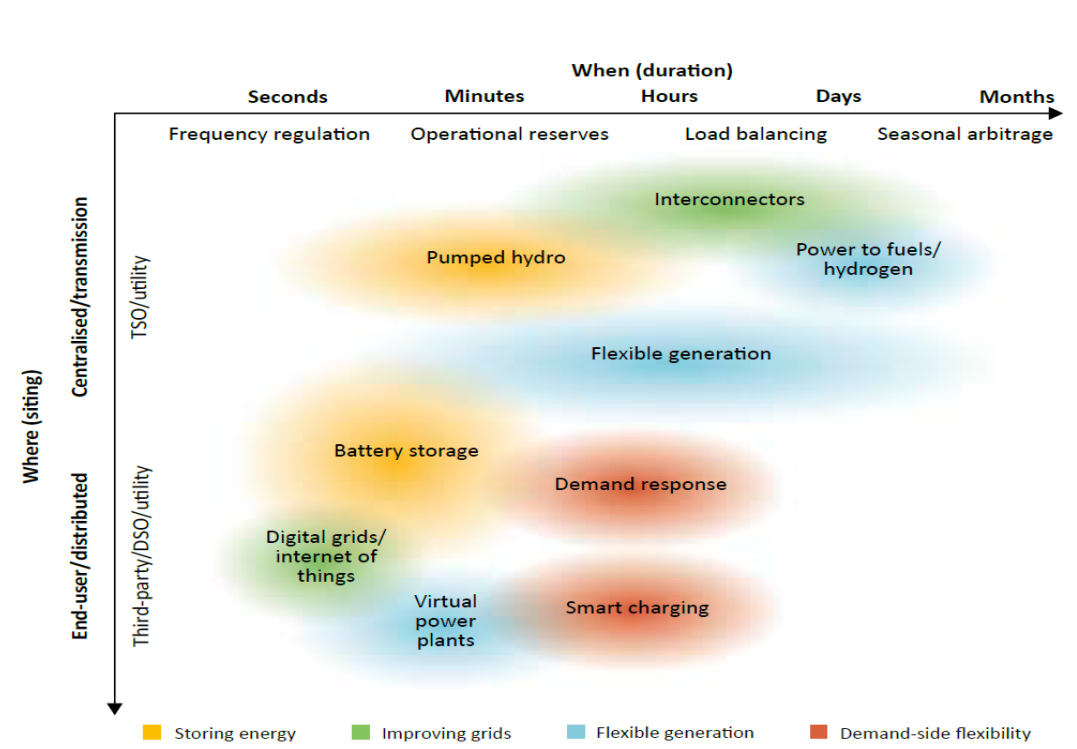
Phases of integration with variable renewables share, 2030



**All sources of flexibility needed**

**Targeted investment in flexibility needed**

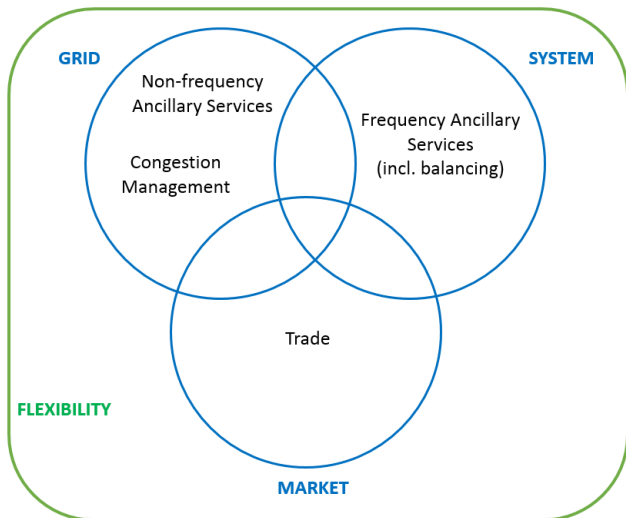
**Mobilise existing power system flexibility**



Source IEA 2018

# TSOs perspective on flexibility sources, services and products

## Flexibility services will evolve



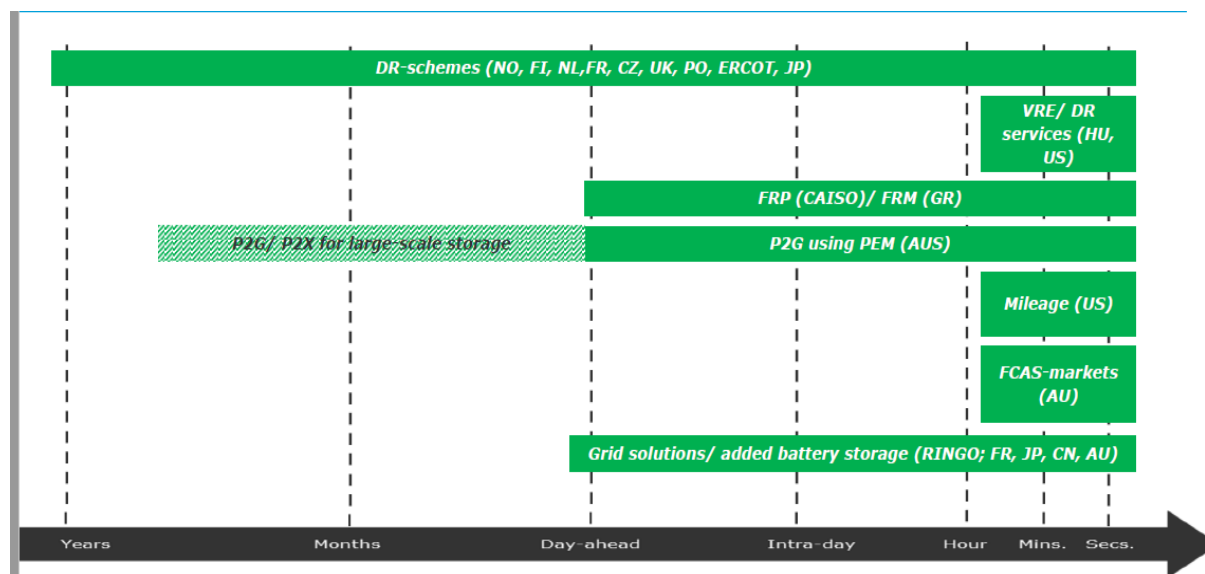
### Technology

Storage, DR, IOT,  
Flexible Gen,  
Blockchain

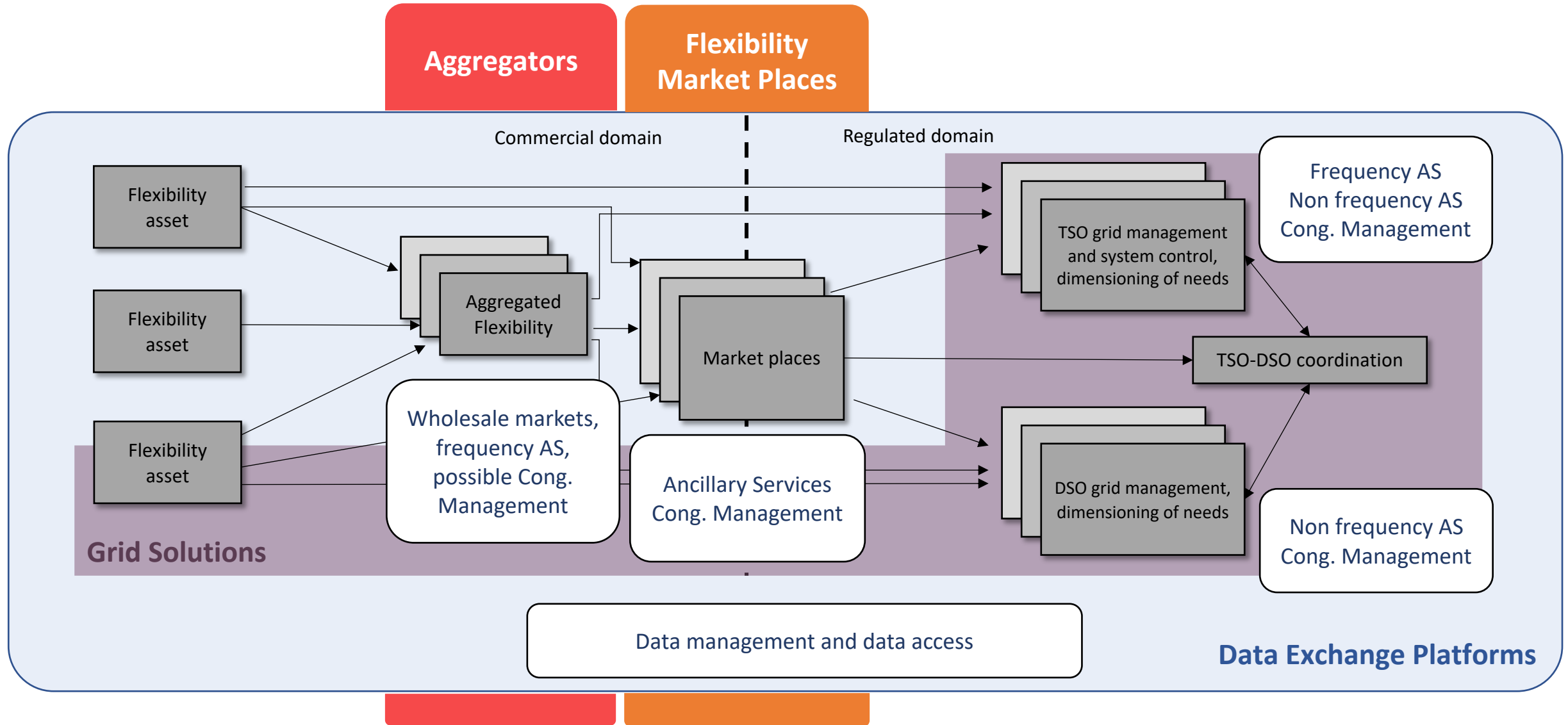
### Markets

Market and product  
design

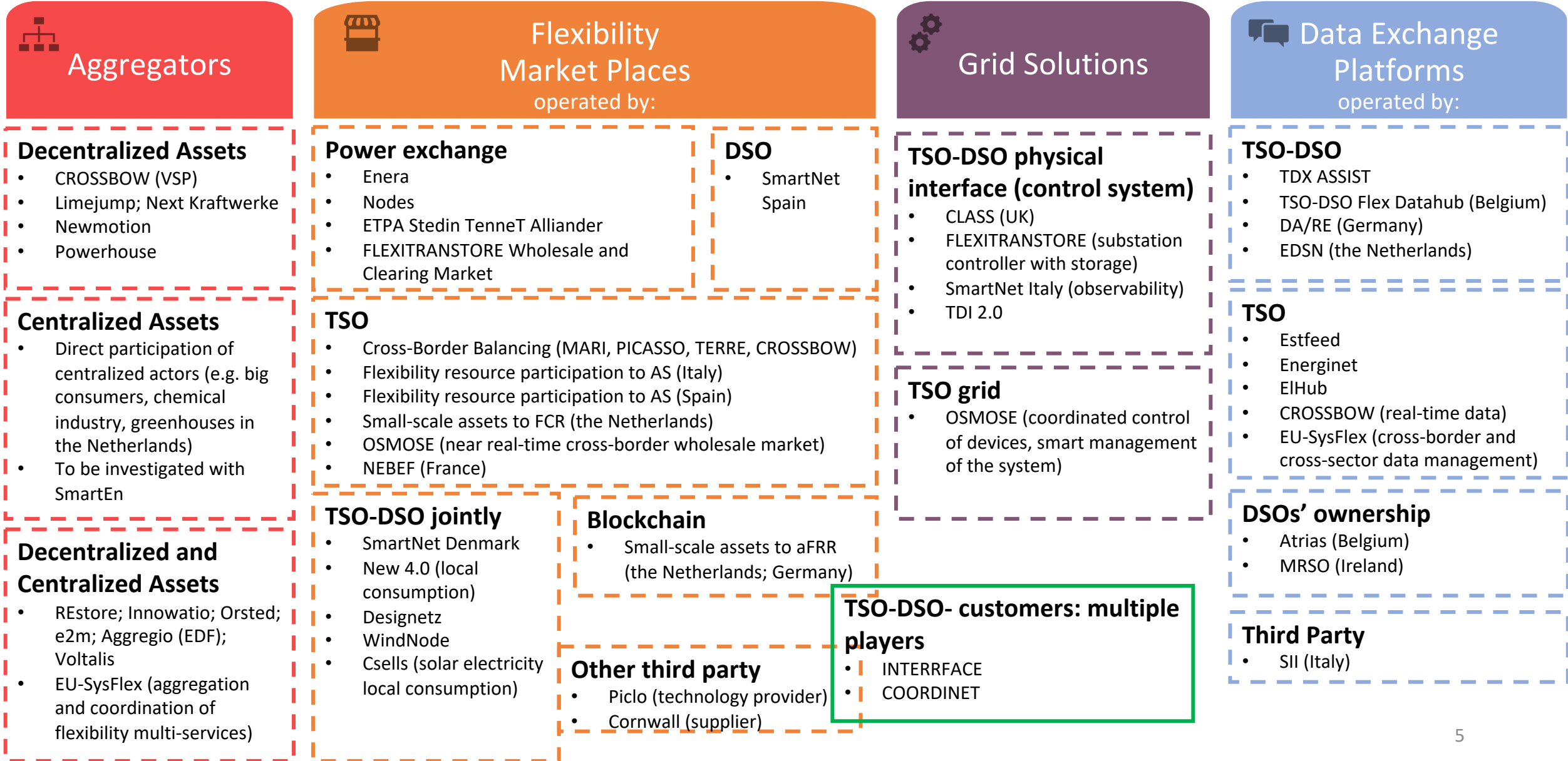
Power  
system  
flexibility  
development



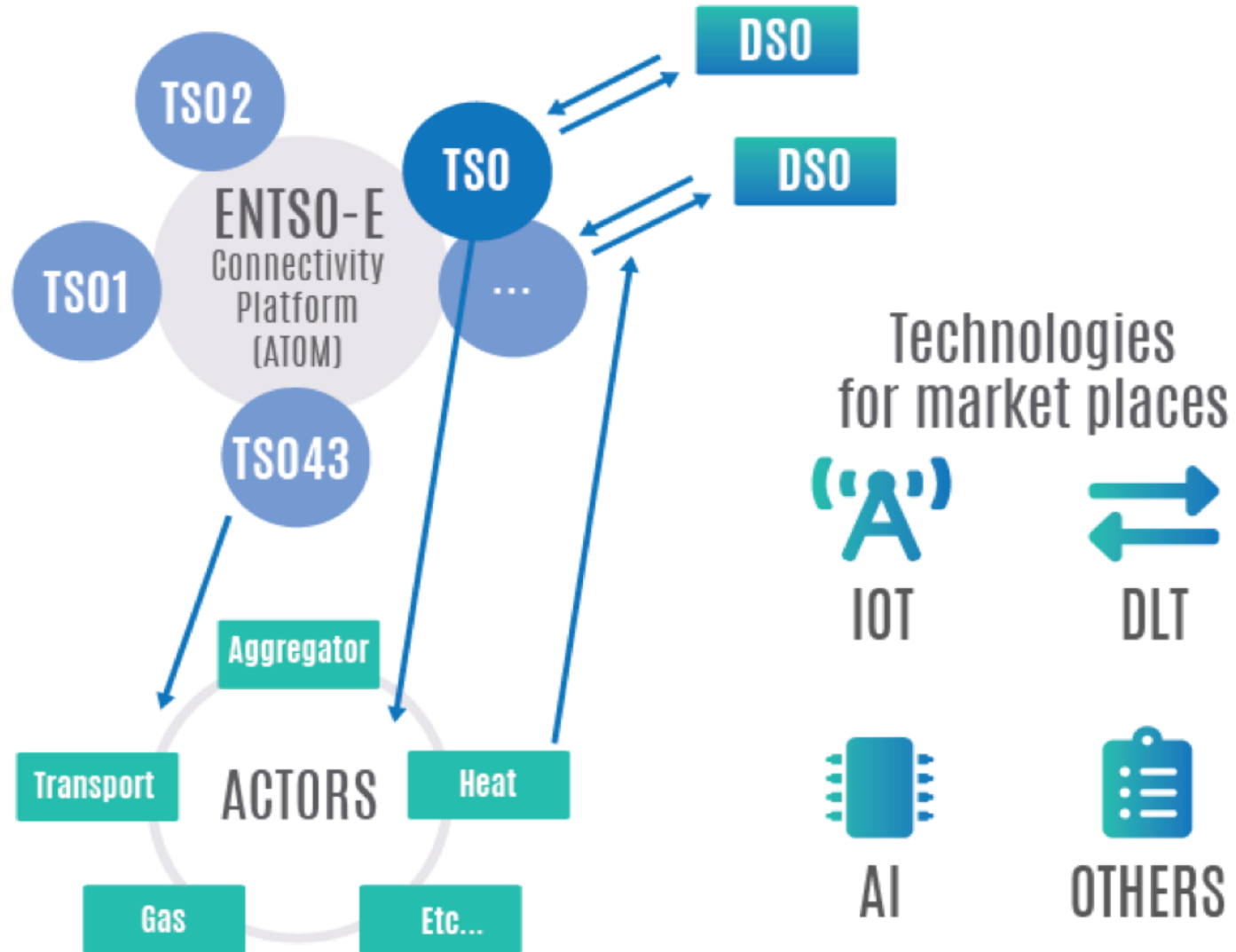
# Which platform for which services?



# Which platform for which functionalities?



# Future vision – multiple interoperable platforms



# Thank you

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