

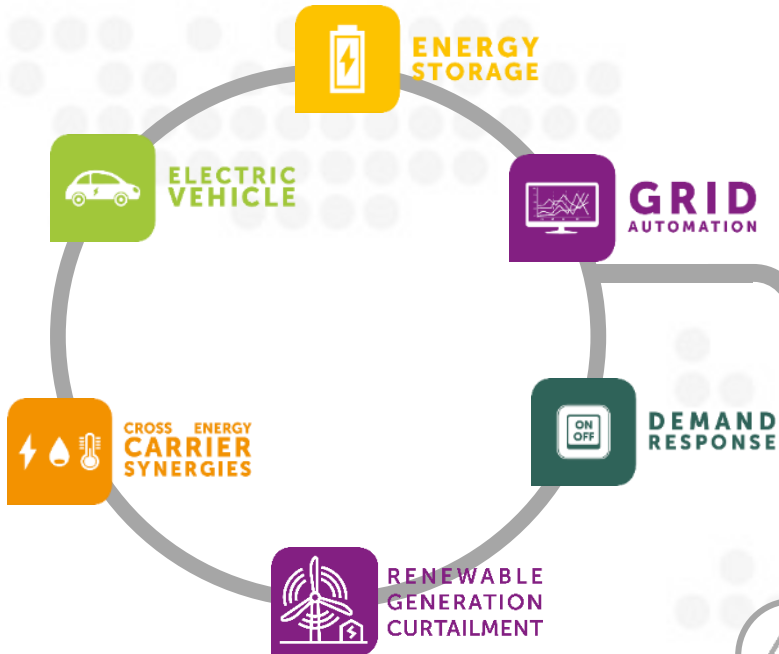
# The InterFlex project - H2020

## Local DSO Flexibility markets

Brussels, 2<sup>nd</sup> Flex market  
workshop, February 13<sup>th</sup>, 2020



# Use of flexibilities on a local scale



MAKE AVAILABLE AND EXPLOIT THE LOCALLY AVAILABLE PANEL OF FLEXIBLE RESOURCES

3-year project duration  
**2017**  
**2019**

6 demonstrators

**5** EU DSOs

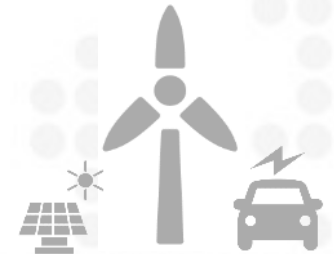
**e-on**  **ENEXIS GROEP**

**enedis**  **avacon**  
L'ELECTRICITE EN RESEAU

 **DISTRIBUCE**



MANAGE CONSTRAINTS IN THE DISTRIBUTION SYSTEMS IN A COST-EFFECTIVE AND EFFICIENT WAY

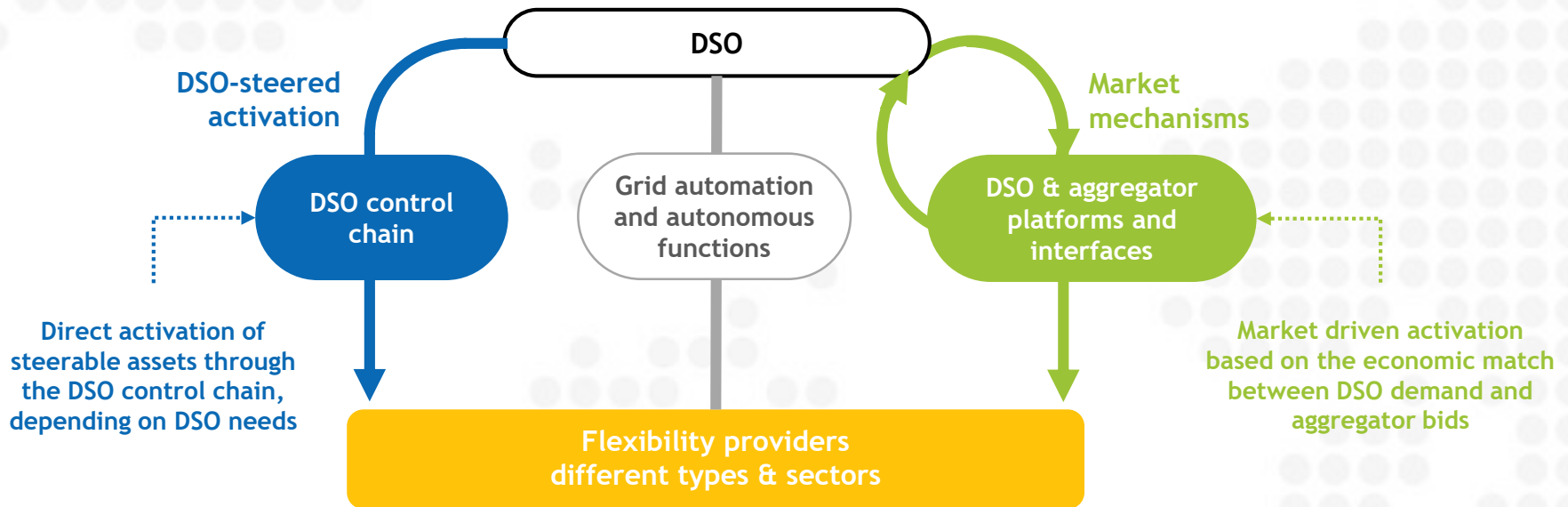


INCREASE THE LOCAL SHARE OF RENEWABLES AND FOSTER THE DEVELOPMENT OF NEW ELECTRIC USES SUCH AS E-MOBILITY

# InterFlex investigated different approaches to access and activate local flexibilities

*Approaches are complementary - not exclusive*

*Their choice depends on actual grid congestion, regulation and economic principles*



Direct activation of steerable assets through the DSO control chain, depending on DSO needs

Market driven activation based on the economic match between DSO demand and aggregator bids

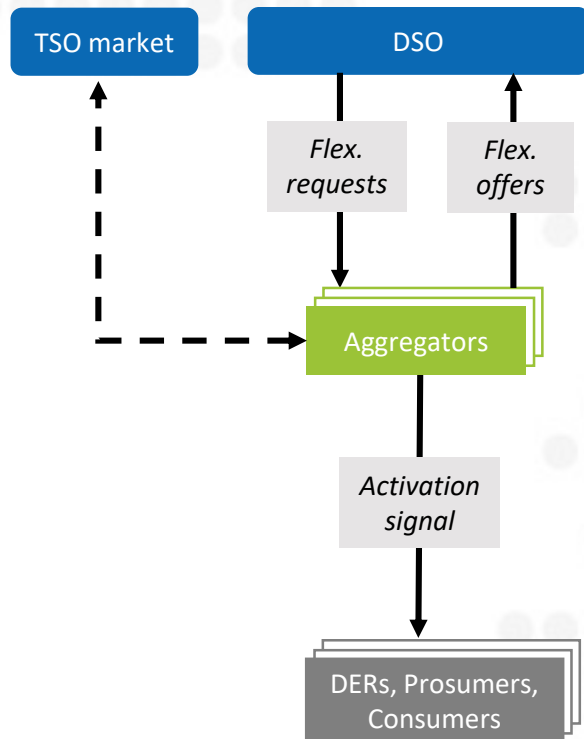
Producers - Prosumers - Consumers  
Industrial, tertiary, residential



Batteries, EV, thermal inertia, residential heating, sector coupling, DER curtailment, ...

# Local Flexibility Markets

Today, national flexibility markets are driven by proven TSO mechanisms.  
 What are the challenges for the DSO to exploit local flexibilities?



TSO: - balance responsible

DSO: - grid constraint forecast  
 - flex settlement  
 - flex requests  
 - flex offer selection  
 - service check

Aggregator: - portfolio optimization  
 - dispatch and balance  
 - forecast  
 - optimisation among value pockets & flex offers  
 - flex activation, arbitrage

DERs, prosumers, consumers:  
 - flexibility provider

DSO-TSO coordination

Value stacking

Standardisation of flex products

Local market liquidity

Flex value

Risk management: market vs contracts

Thank you for your attention!



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