Begonia

Digital Solutions for Energy and Transport Sector

Workshop - A Glimpse of Europe Innovation

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DTU

What is Begonia?

EU-funded Coordination and Support Action (CSA) that aims to expedite European's digital transformation.

Identifies cross-border use cases of Operational Digital Platforms (ODPs) in the energy and transport sectors

Analyses studies, and prepares the development of the most promising solutions

This project has received funding from the European Commission under grant agreement N°101133306.

Begonia – Workplan and Objectives

- BEGONIA will identify, study and prepare the development of Operational Digital Platforms across at least 7 EU countries.
- Starts from the identification of >10 cross-border and possibly cross-sector use cases.
- Aims to shortlist 3, based on predefined criteria, evaluating their impacts through proof-of-concept implementation of their ODPs while
- Advising the EC on the drafting of a new call works project.

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Use case example: Cross-border Flexibility procurement for ancillary services

The objectives of the use case are as follows:

• Introducing a mechanism for procuring demand-side flexibility at the EU level taking into account the existing mechanisms,

• Proposing a recommender service for analyzing the grid vulnerability and benefiting from demand-side flexibility for preventing power imbalances and RESs' power cuts,

• Proposing a tool for aggregation and classification of the demand-side flexibility at the EU level,

• Providing new market opportunities for aggregators,

• Reducing the need for conventional flexibility resources,

• Providing services for TSOs and DSOs

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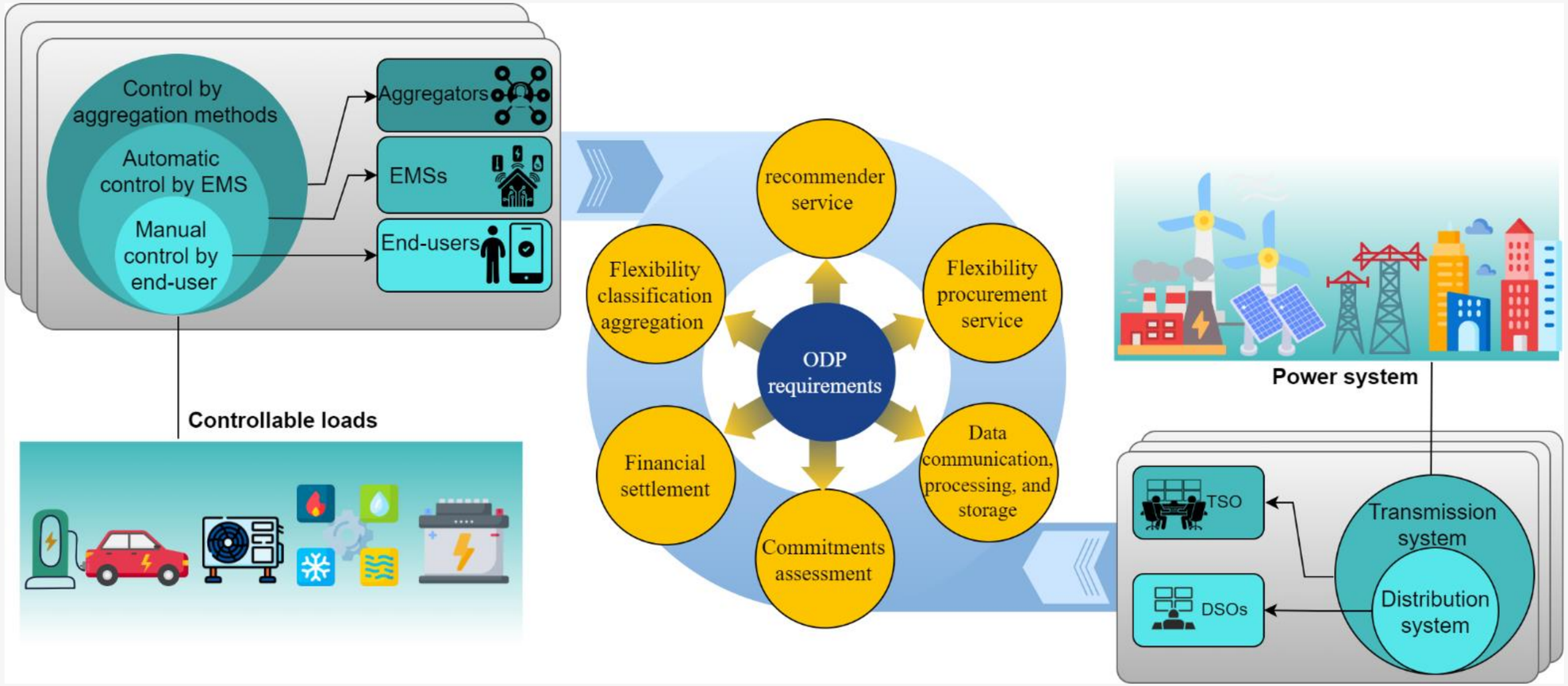
Cross-border Flexibility procurement for ancillary services – ODP overview



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ODPs and Standardizations

ODPs are complex and interdependent (systems, infrastructures, services, etc)

ODPs need to be:

- Interoperable (data spaces and services)
- Follow dedicated reference architectures
- Cross-border by nature (comply with local policies and regulations)

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Begonia

Thank you!

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