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EUniversal UMEI

Linking active system management to flexibility markets

EUniversal

UMEI

InnoGrid 2023

Session 3 - Cooperation

Pedro Marques

E-REDES

EUniversal is coordinated by E-REDES, involving 19 partners, including cooperation between DSO and market platforms/FSP

EUniversal UMEI

DSO E-REDES, Energa operator, e·on (including: MITNETZ STROM, westenergie + E.On Impulse GmbH as LTP)

Market/aggregator NODES, N-SIDE, centrica Business Solutions

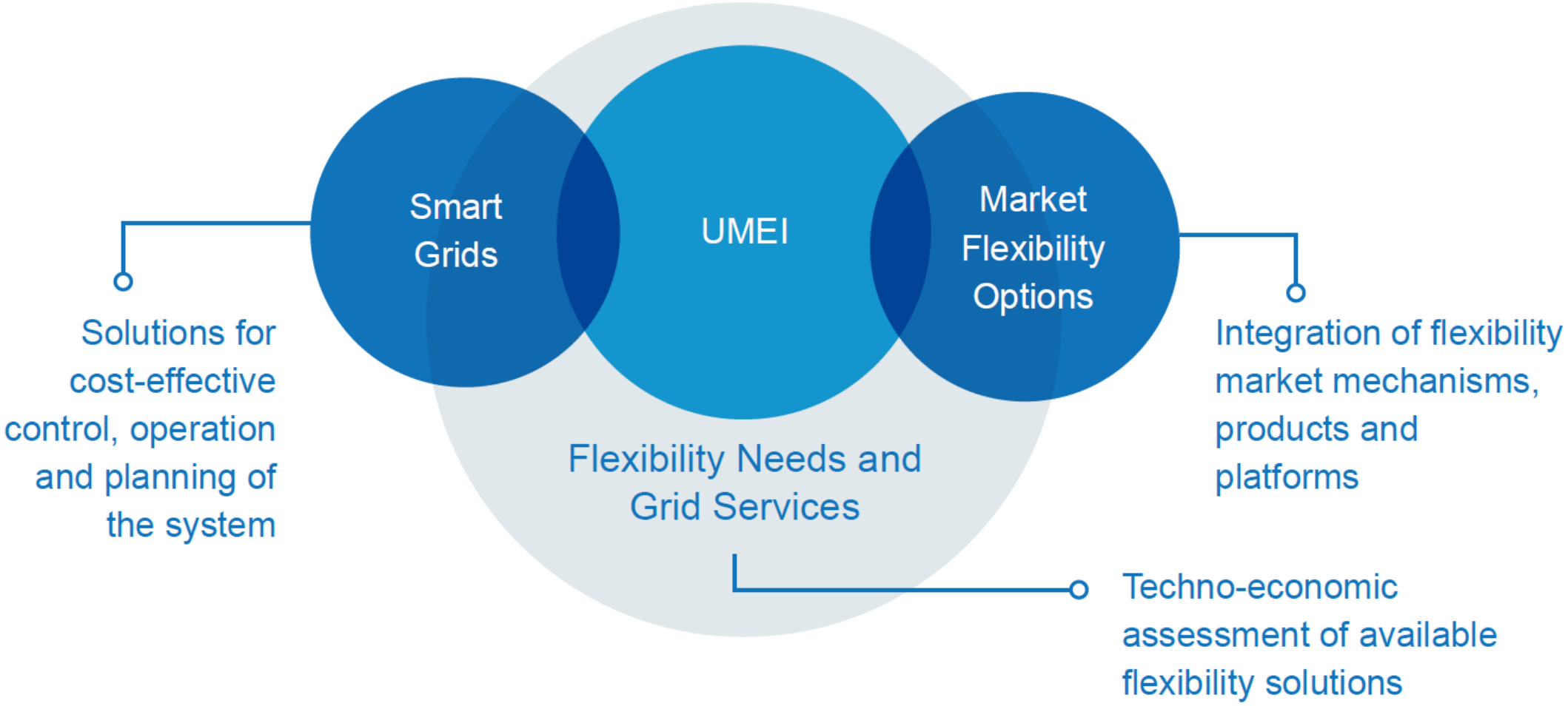
Research Πανεπιστήμιο Κύπρου University of Cyprus, Vlerick Business School, JEN Instytut Energetyki, KU LEUVEN, INESCTEC, vito, Comillas Universidad Pontificia, Manchester 1824 The University of Manchester

Association E.DSO, EASE European Association for Storage of Energy

Solution provider Systemy Automatyki, Mikronika, ENGIE Impact

Consulting zabala innovation consulting

A three-fold approach lays down the foundation for this implementation



UMEI

EUniversal Contribution to the Digitalisation of the Sector

NEW DSO TOOLS TO ENABLE NEW SERVICES AND IMPROVE SYSTEM OPERATION

OPEN AND COMMON RULES FOR DATA EXCHANGE AND FLEXIBILITY SERVICES

CONSUMER EMPOWERMENT, INNOVATION, AND EUROPEAN INDUSTRY COMPETITIVENESS

What entity should manage the UMEI (and other opensource) after project completion?

EUniversal UMEI

euniversal.eu

euniversal_proj

euniversalproject-h2020

euniversal_h2020

Let’s flatten the energy curve!

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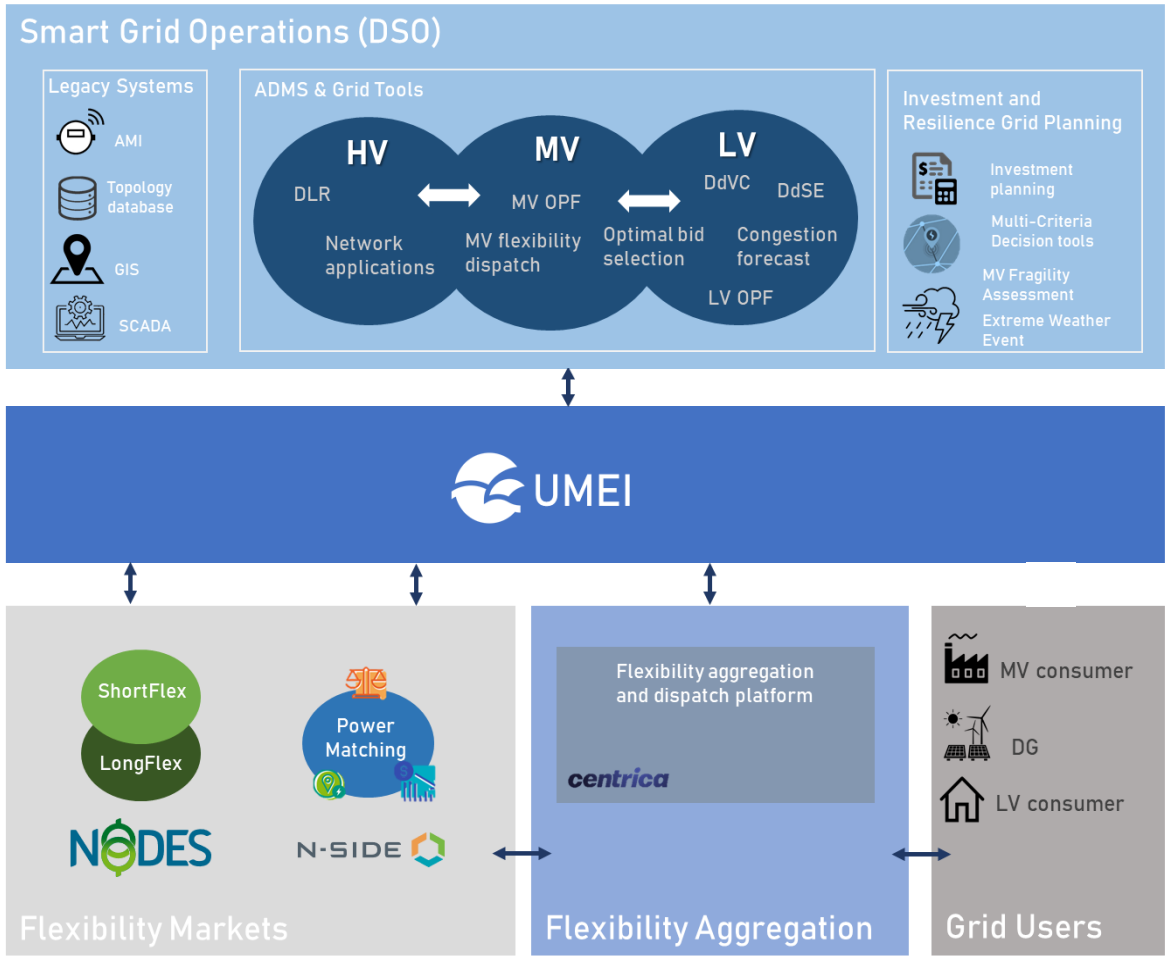
The UMEI: universal, adaptable, interoperable and fast and easy to implement



Not a platform but a set of open rules (API specification)

Available for any system and market operators on:

- euniversal.eu/the-umei
- github.com/euniversal/umei-api-specification

Modular and Adaptable – Process groups

(REST APIs containing CRUD operations)

Baseline	Order	Meter Reading	Market	Portfolio	Trade
Managing portfolio baselines	**Manage Market Orders**	**Manage Meter Readings**	**List All Markets**	**Manage Portfolios**	**List Market Trades**
Used by FSPs to manage baselines on the market platform.	Used by the DSOs and FSPs to execute orders' related operations in the market platform.	Used by the DSOs to manage metering data submission both to the FMO and the FSP.	Used by market participants to retrieve the available markets.	Used by FSPs to submit and manage portfolio on the market.	Used by market participants to retrieve the market trades.

Being tested in three demontrations

EUniversal UMEI

Market Platforms

NODES

N-SIDE

centrica

Technical Spec.

BUCs & SUCs

UMEI

Implementation

Demonstrations

Portugal

Market driven flexibility services for a LV and MV Grid

Germany

Congestion Managment using market-based procurement of flexibility in the LV Grid

Poland

Grid observability and future networks supporting flexibility management