OUR TEAM

CONSORTIUM

12 PARTNERS

The project comprises a high quality, complementary and multidisciplinary consortium that consists of 12 partners from nine different European countries.

PILOT SITES

FIVE EUROPEAN SITES

The large-scale pilots from Spain, Belgium, Denmark, Slovenia and Turkey have been carefully chosen to provide Big Data input, and diverse scenarios for tool development and the verification of business services.
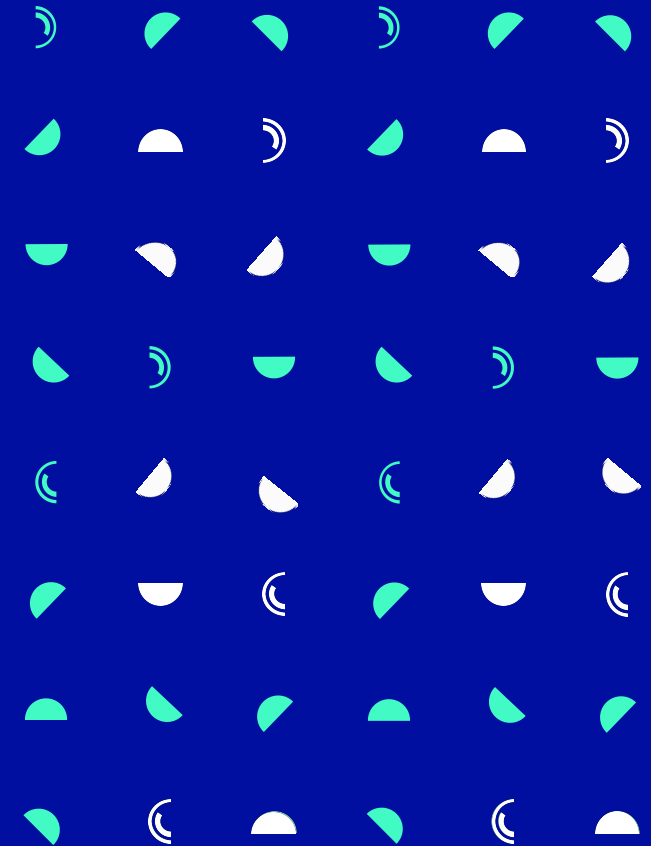
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BIG DATA FOR OPEN ENERGY INNOVATION MARKETPLACE

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ANALYTIC TOOLBOX

Big data processing techniques are the core of the analytic toolbox. It is a virtual interface supporting those providing data, those requiring data analytic services and those delivering such services. Data providers and service users can be one and the same organization.

CLOUD-BASED OPEN INNOVATION MARKETPLACE (OIM)

The OIM enables large-scale multiparty data exchanges and real-time processing of energy-related data in smart distribution grids. It will connect energy stakeholders' needs directly with solutions to enhance energy asset management, promote consumer participation and create new datadriven business models and value chains for energy stakeholders.

UNIQUE BD4OPEM SERVICES

18 services to address the needs of System Operators, Energy Suppliers and Aggregators, Microgrid operators, Prosumers and e-Mobility service providers. Big Data and AI techniques, such as Data mining and Machine Learning, applied to enhance network planning, monitoring and operation & maintenance. Services are available commercially from the Open Innovation Marketplace.
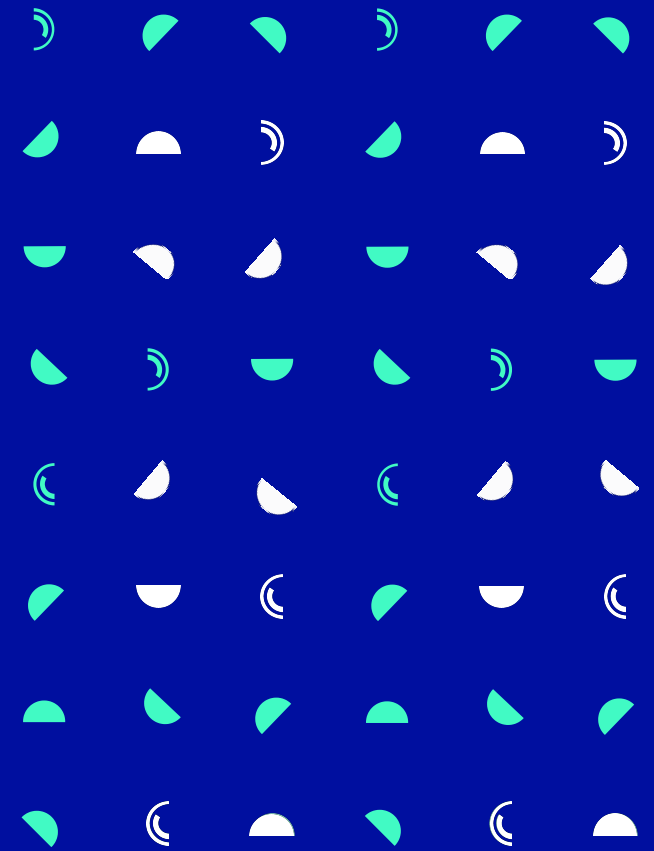
PLANNING

Services include Asset Investment Planning, Impact studies of PV, EV or New Loads and MicroGrid Operational Scheduling.

MONITORING

Services include LV Network Topology Identification, LV Grid Observability and Fraud Detection

OPERATION AND MAINTENANCE

Services include Predictive Maintenance, Grid Disturbance Simulations, Flexibility Forecasting, Flexibility Services, EV to Grid, Building Energy Management, Energy Forecasting and P2P Trading.

ABOUT BD4OPEM

Our mission is innovative business solutions using Big Data and AI techniques to enhance the planning, monitoring and operation & maintenance of electrical distribution grids in the Energy market.