

PLATOON

Digital platform and analytics tools for energy

GLOBAL GOALS



Enable the **reliable, fair and secure extraction of knowledge** from energy sector data.



Contribute to the **standards of energy management systems**.



Foster **new business models** in the energy sector **using digital technologies**.



Offer **proper roles** for interfaces to enable innovative business processes.



Enhance multi-party cooperation between **technology providers and data owners**.



Identify new **COSMAG-compliant standards** for scalable and replicable energy management solutions.

BACKGROUND & CONTEXT



The electricity sector is shifting towards **decentralisation and decarbonisation**.

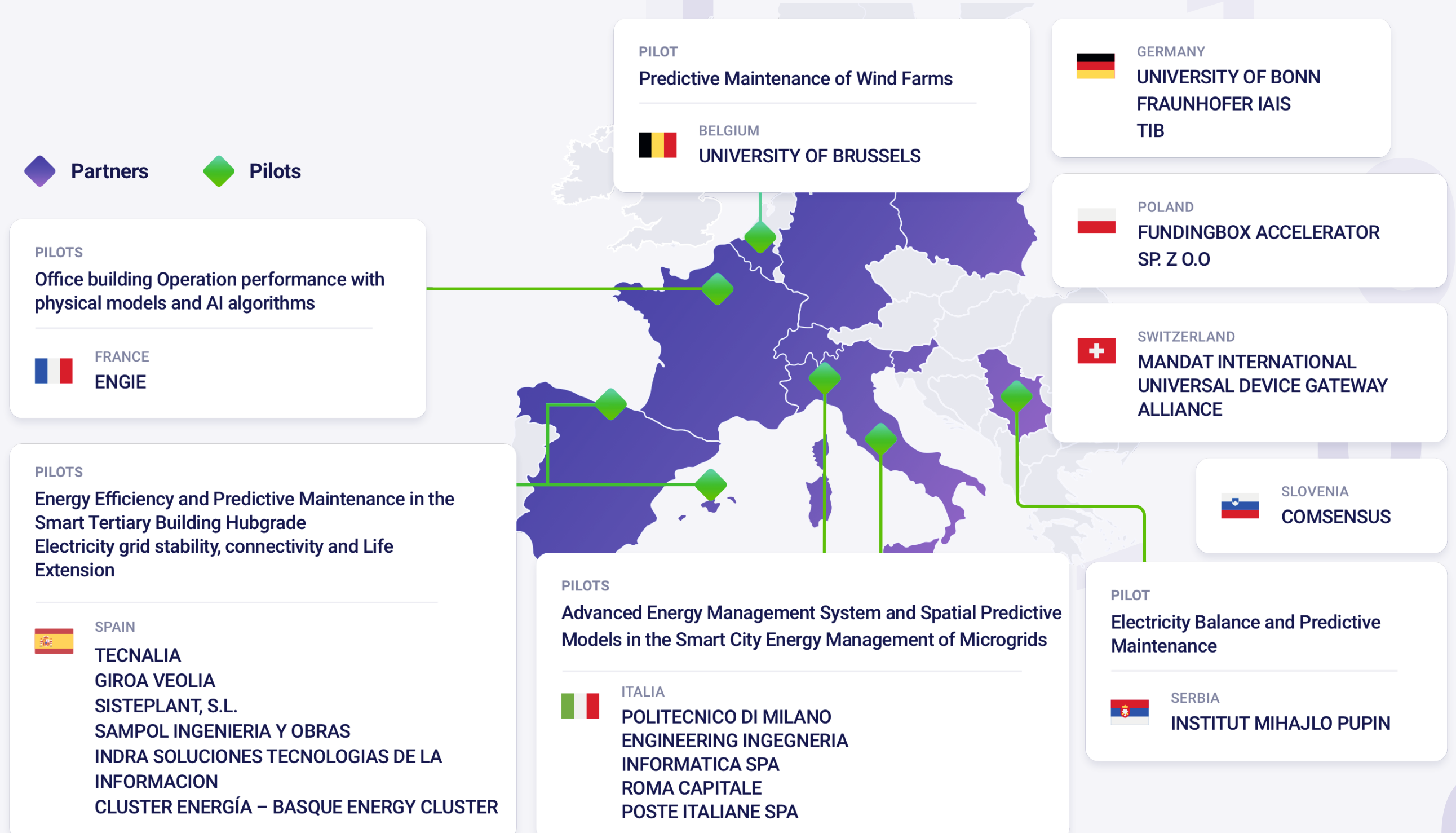


The **rise of renewable energy sources** demands algorithms that can predict and avoid grid disturbances.

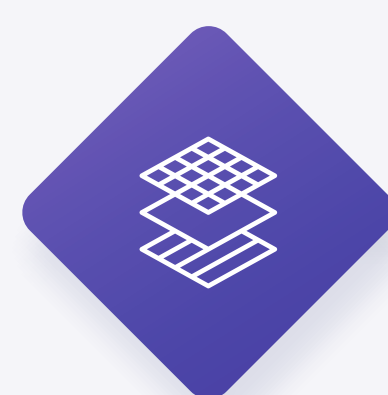


It is necessary to **leverage the data value chain** to convert information into knowledge.

PLATOON – Partners and Pilots



A COSMAG-compliant reference platform with flexible capabilities:



Interoperability
Enabling data exchange and integrated value chains between **platforms** using a wide spectrum of heterogeneous data sources, formats and interfaces.



Data Governance & Security
Addressing digital sovereignty **challenges** of multiple data owners and providers for multi-party data exchange along the energy value chain via IDS-based connectors.



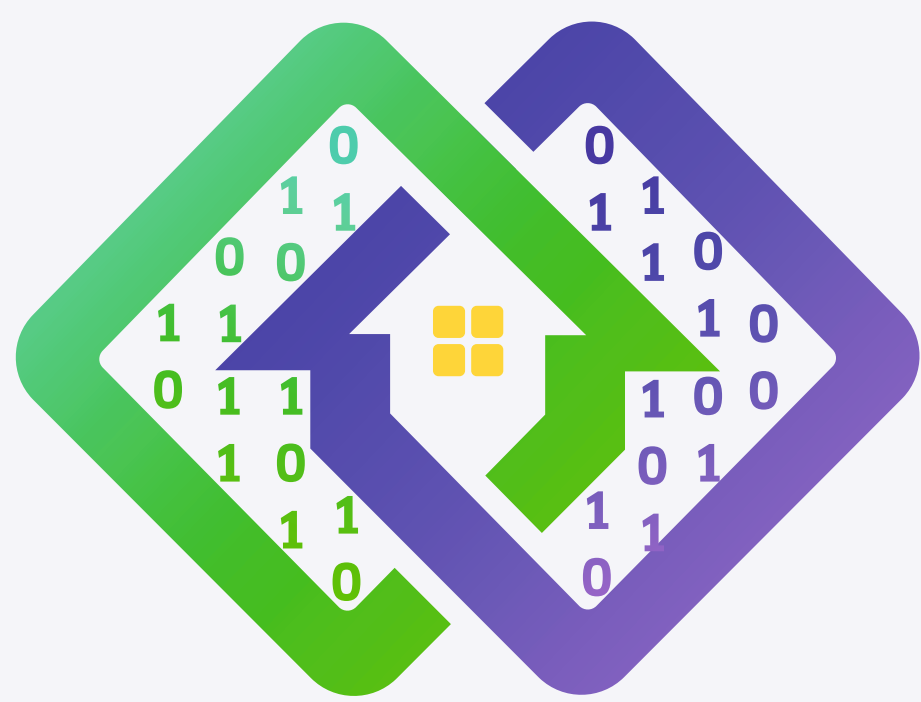
Data Analytics Toolbox & Edge Computing
Deploying technologies for data **processing and analysis** in batch and real-time to optimise the energy system management for the energy domain experts.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872592

CONSORTIUM PARTNERS:





PLATOON

Digital platform and analytics tools for energy



The EU-funded H2020 project PLATOON aims to **digitalise the energy sector**, enabling thus higher levels of operational excellence with the adoption of disrupting technologies.

PLATOON will develop a COSMAG-compliant reference architecture for big data processing for the energy sector. PLATOON will **develop interoperability** layer based open standards (e.g. SAREF, CIM, NGS-LD) to ensure compatibility with different platforms and legacy systems.

PLATOON will develop IDS connectors, **enabling multi-party data exchange** while ensuring data governance and data sovereignty.

PLATOON will develop a data analytics toolbox and edge computing solutions for optimised real-time energy system management in a simple way for energy domain experts.

The project will be validated in **7 pilots in 5 countries** that provide real **Energy Big Data cases**. PLATOON will facilitate the technology transfer into the market by a well-established tendering process via **Open Calls**.

The project will reinforce the European efforts for the modernisation of the European electricity grid, as it focuses on new smart grids services through data knowledge exploitation. Moreover, PLATOON will offer access to cheaper and **sustainable energy** for energy consumers and maximise social welfare.

Thus, PLATOON will contribute to **increased renewable energy consumption**, **smart grids** management, increased **energy efficiency** and **optimised energy asset management**.

KEEP IN TOUCH



@PLATOON_EU



platoon-project.eu



PLATOON.eu



PLATOON H2020 Project



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872592

PLATOON – Partners and Pilots

Partners

Pilots

PILOTS
Office building Operation performance with physical models and AI algorithms
FRANCE
ENGIE

PILOTS
Energy Efficiency and Predictive Maintenance in the Smart Tertiary Building Hubgrade
Electricity grid stability, connectivity and Life Extension
SPAIN
TECNALIA
GIROA VEOLIA
SISTEPLANT, S.L.
SAMPOL INGENIERIA Y OBRAS
INDRA SOLUCIONES TECNOLOGIAS DE LA INFORMACION
CLUSTER ENERGÍA – BASQUE ENERGY CLUSTER

PILOTS
Advanced Energy Management System and Spatial Predictive Models in the Smart City Energy Management of Microgrids
ITALIA
POLITECNICO DI MILANO
INGEGNERIA INGEGNERIA
INFORMATICA SPA
ROMA CAPITALE
POSTE ITALIANE SPA

PILOT
Predictive Maintenance of Wind Farms
BELGIUM
UNIVERSITY OF BRUSSELS

GERMANY
UNIVERSITY OF BONN
FRAUNHOFER IAIS
TIB

POLAND
FUNDINGBOX ACCELERATOR
SP. Z O.O.

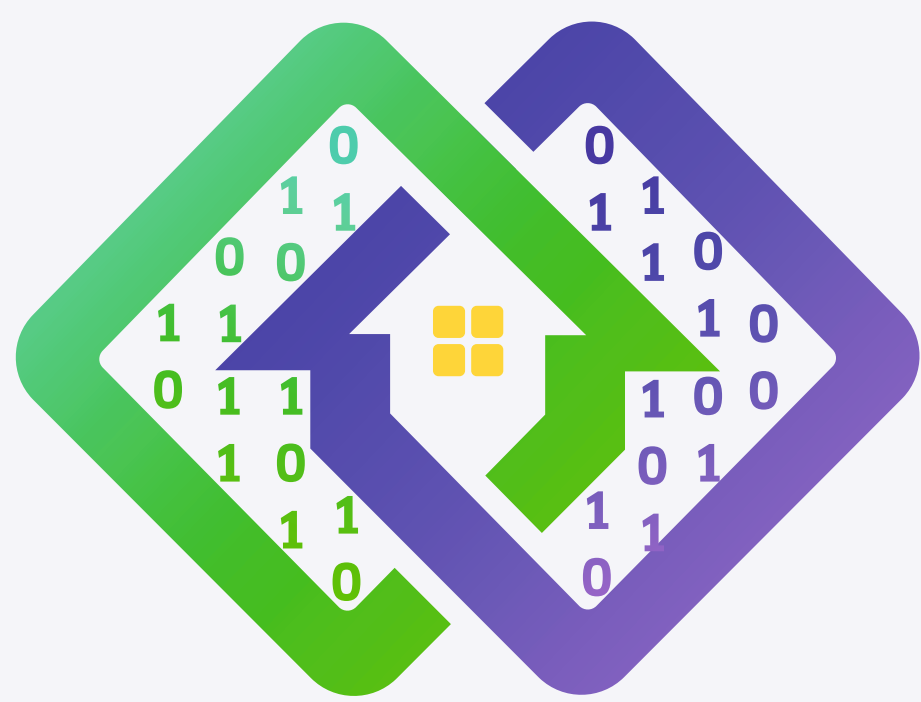
SWITZERLAND
MANDAT INTERNATIONAL
UNIVERSAL DEVICE GATEWAY
ALLIANCE

SLOVENIA
COMSENSUS

PILOT
Electricity Balance and Predictive Maintenance
SERBIA
INSTITUT MIHAJLO PUPIN

CONSORTIUM PARTNERS

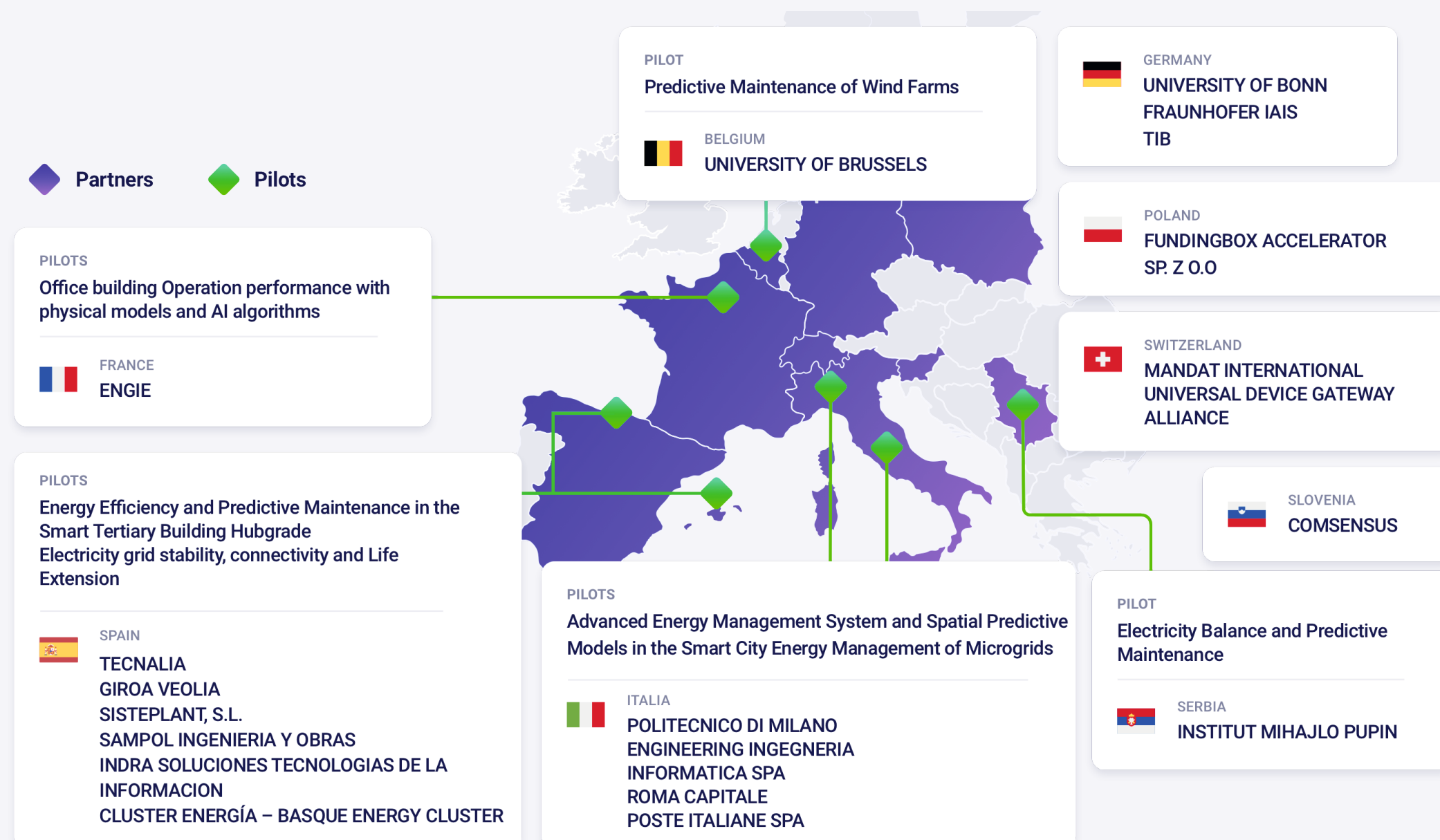




PLATOON

Digital platform and analytics tools for energy

PLATOON – Partners and Pilots



KEEP IN TOUCH



@PLATOON_EU



platoon-project.eu



PLATOON.eu



PLATOON H2020 Project



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872592



The EU-funded H2020 project PLATOON aims to **digitalise the energy sector**, enabling thus higher levels of operational excellence with the adoption of disrupting technologies.



PLATOON will develop a COSMAG-compliant reference architecture for big data processing for the energy sector. PLATOON will **develop interoperability** layer based open standards (e.g. SAREF, CIM, NGS-LD) to ensure compatibility with different platforms and legacy systems.



PLATOON will develop IDS connectors, **enabling multi-party data exchange** while ensuring data governance and data sovereignty.



PLATOON will develop a data analytics toolbox and edge computing solutions for optimised real-time energy system management in a simple way for energy domain experts.



The project will be validated in **7 pilots in 5 countries** that provide real **Energy Big Data cases**. PLATOON will facilitate the technology transfer into the market by a well-established tendering process via **Open Calls**.



The project will reinforce the European efforts for the modernisation of the European electricity grid, as it focuses on new smart grids services through data knowledge exploitation. Moreover, PLATOON will offer access to cheaper and **sustainable energy** for energy consumers and maximise social welfare.



Thus, PLATOON will contribute to **increased renewable energy consumption, smart grids** management, increased **energy efficiency** and **optimised energy asset management**.

CONSORTIUM PARTNERS

