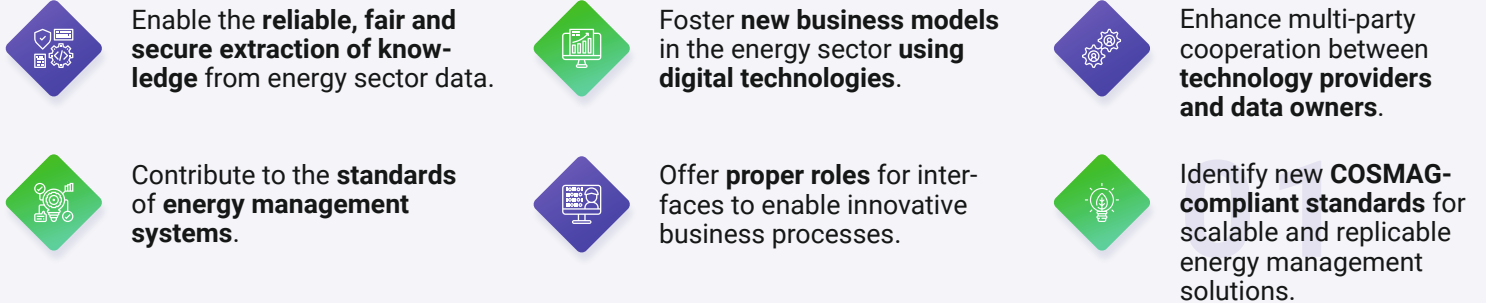


PLATOON

Digital platform and analytics tools for energy



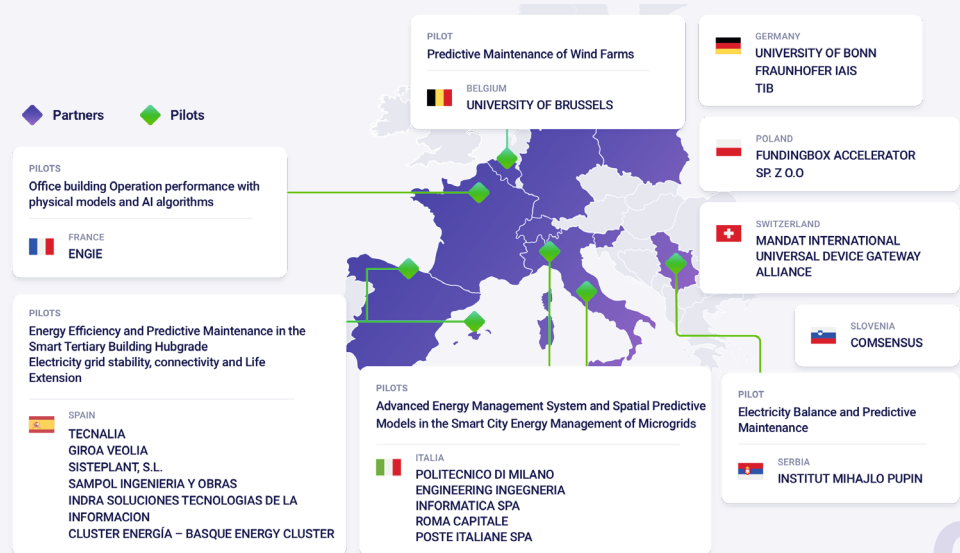
GLOBAL GOALS



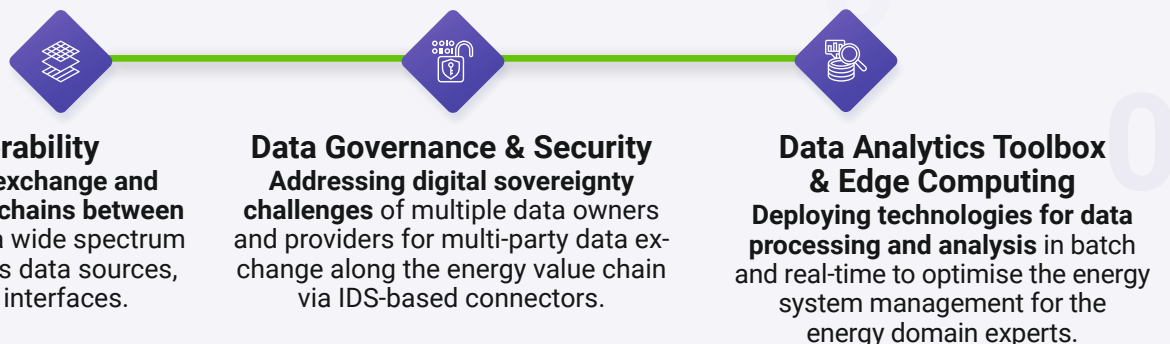
BACKGROUND & CONTEXT

- 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:



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

CONSORTIUM PARTNERS:





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PLATOON H2020 Project



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, NGSI-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**.

PLATOON – Partners and Pilots

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PILOTS

Office building Operation performance with physical models and AI algorithms



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Energy Efficiency and Predictive Maintenance in the Smart Tertiary Building Hubgrade
Electricity grid stability, connectivity and Life Extension



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CLUSTER ENERGÍA – BASQUE ENERGY CLUSTER

PILOT

Predictive Maintenance of Wind Farms



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Advanced Energy Management System and Spatial Predictive Models in the Smart City Energy Management of Microgrids



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