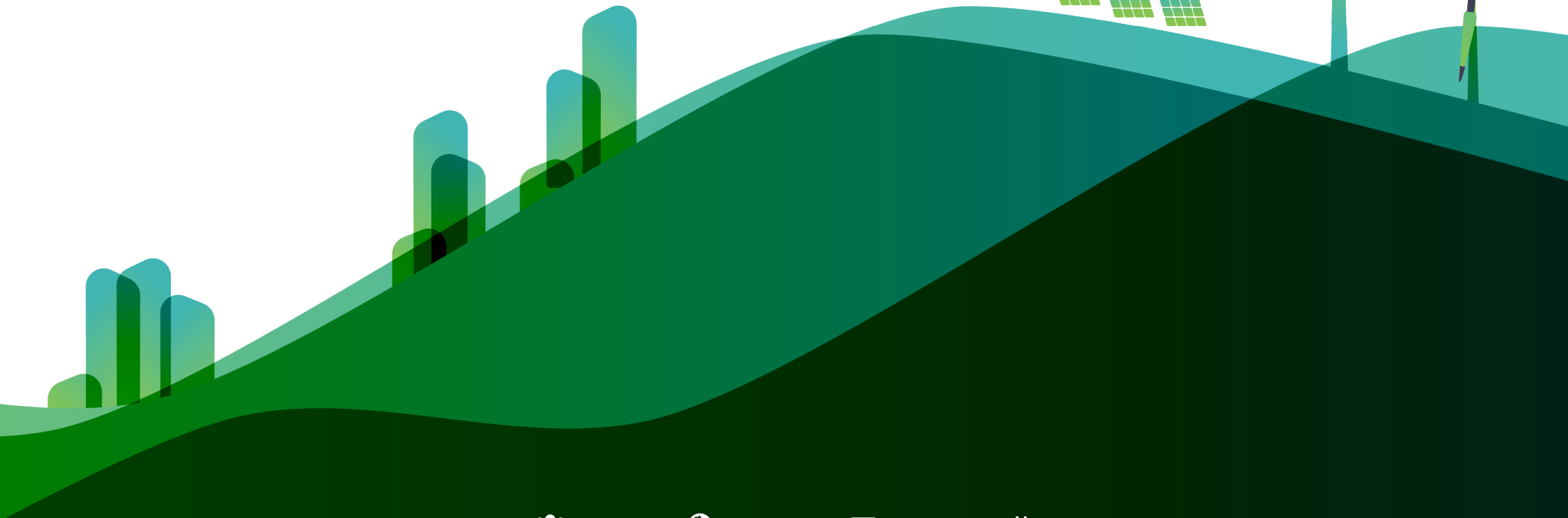




This project receives funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement Number 957128.



**Self Assessment
Towards Optimization
of Building Energy**



16
partners



7
countries



8,7M€
EU Funding



36
Months

SATO

SATO will implement a **cloud-based platform** that can perform self-assessment and optimization of energy consuming devices in a building. This platform will use an artificial

intelligence approach combined with 3D BIM based visualization to provide an accurate vision of the real-life **energy performance of buildings and appliances.**

SATO will develop



A state-of-the-art building energy assessment and optimization platform



Solutions that, independently of the building type, can provide Internet-of-Things (IoT) capabilities



A mobile application that combines building equipment control and information services into user interaction services

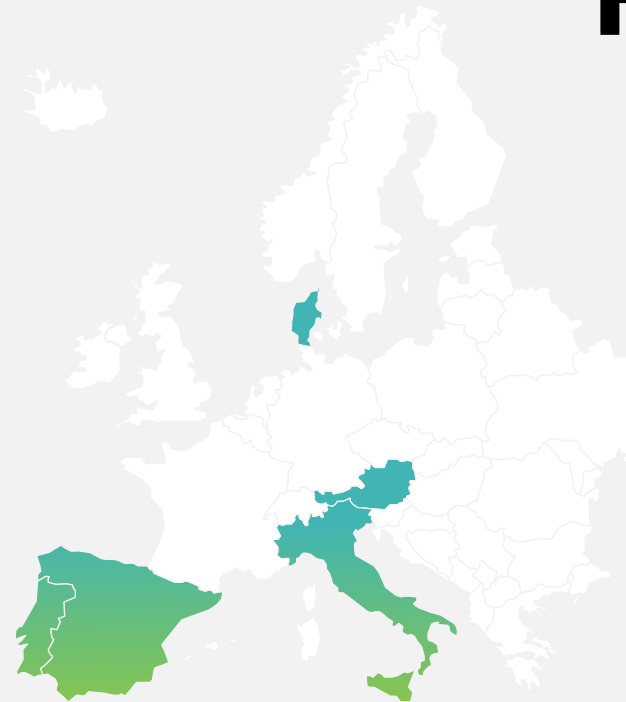
Pilots



The project includes 8 pilots in 3 climate regions

- Mediterranean
- Central
- Northern Europe

where the SATO platform will be deployed and tested.



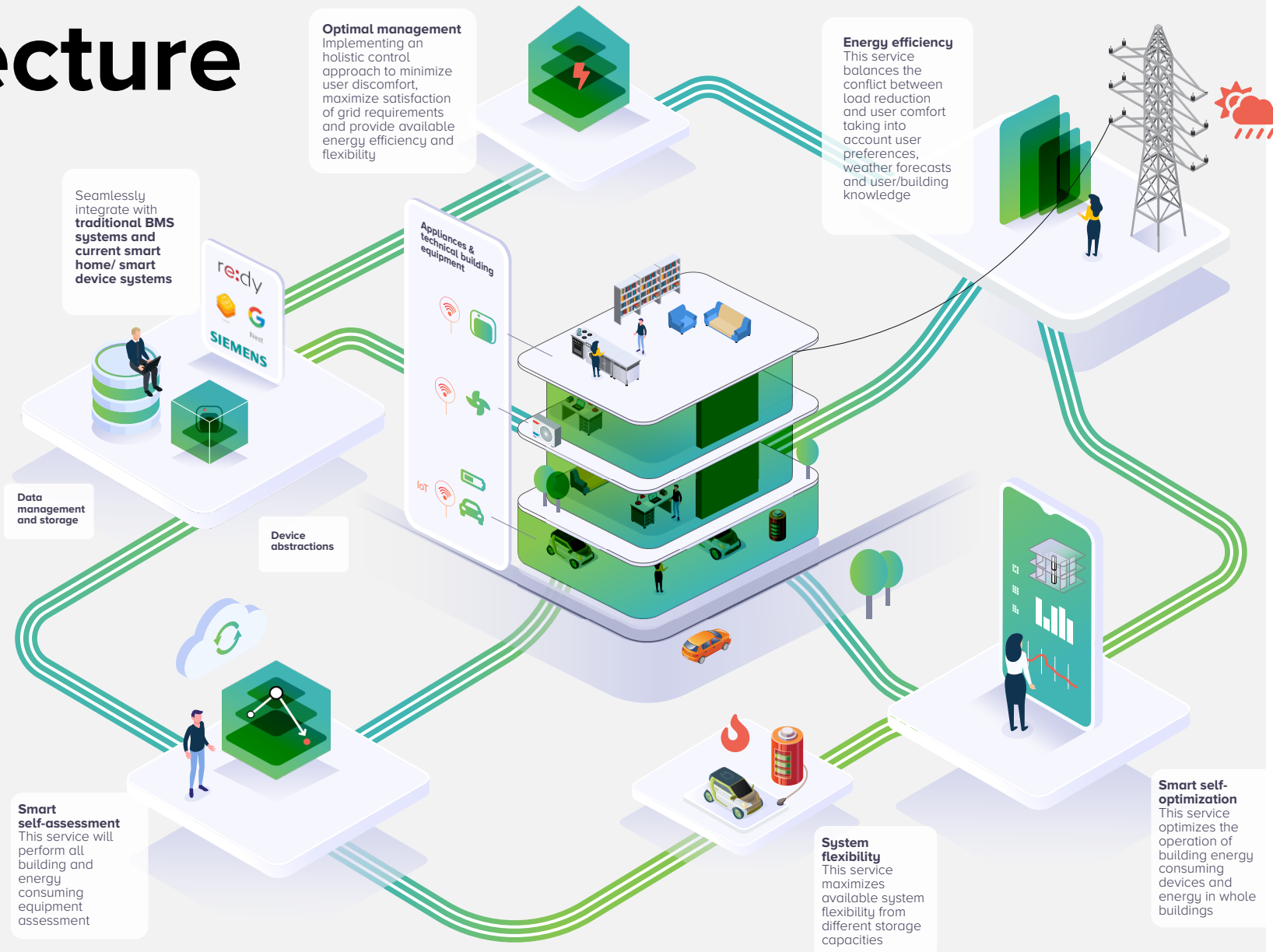
Architecture



1.800 GWh/year
primary energy savings

20% reduction
of the energy consumption throughout project

275.000 tCO₂-eq/year
reduction of greenhouse gas emissions



Optimal management
Implementing an holistic control approach to minimize user discomfort, maximize satisfaction of grid requirements and provide available energy efficiency and flexibility

Energy efficiency
This service balances the conflict between load reduction and user comfort taking into account user preferences, weather forecasts and user/building knowledge

Seamlessly integrate with **traditional BMS systems and current smart home/ smart device systems**

Data management and storage

Device abstractions

Appliances & technical building equipment

Smart self-assessment
This service will perform all building and energy consuming equipment assessment

System flexibility
This service maximizes available system flexibility from different storage capacities

Smart self-optimization
This service optimizes the operation of building energy consuming devices and energy in whole buildings

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