

## The main impacts of VPP4ISLANDS

### Technical impacts

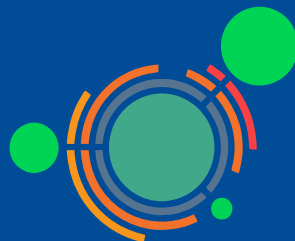
- 01 Increase the performance of the portfolio
- 02 40% reduced reactive maintenance in less than one year
- 03 Enhance stability of the power network

### Socio-economic impacts

- 04 Increase incomes up to 50%
- 05 Reduce investment costs by around 50%
- 06 Up to 75% reduced time to achieve economic outcomes
- 07 Facilitate the creation of green energy communities

### Environmental impacts

- 08 Up to 80% energy savings
- 09 100% renewable energy systems integration
- 10 Reduction of GHG



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Team managers

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## Virtual Power Plant for Interoperable and smart isLANDS

Novel technologies to ensure the stability of smartgrids and the decarbonisation of islands



VPP



DT

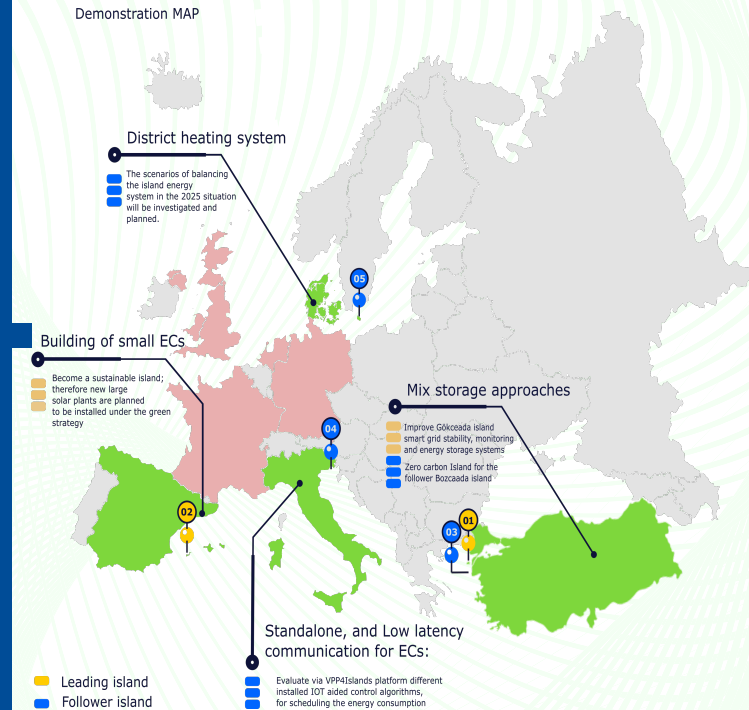


VESS



DLT

Demonstration MAP



**VPP4ISLANDS** maximizes the impacts of the green energy transition in European islands by developing and testing at **2 Leading islands** innovative solutions that will be replicated in **3 follower islands**

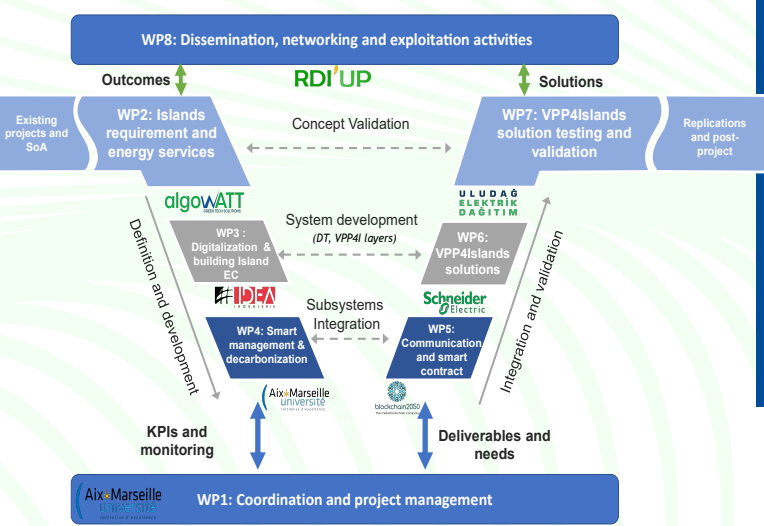


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# Our solutions

## Work Packages



## Consortium

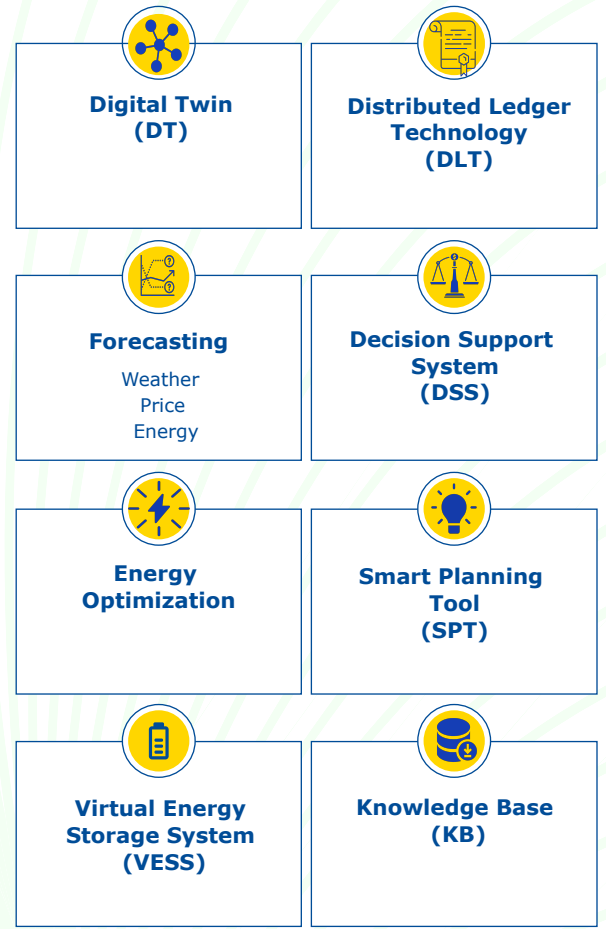
VPP4ISLANDS Consortium gathers 19 harmonized partners from 7 different European Member States and 1 Associated Country (France, Germany, United Kingdom, Netherland, Italy, Spain, Denmark and Turkey). The consortium includes 5 RTOs, 1 association, 1 large company, 7 SMEs, 2 leading and 3 followers Islands.

**Overall project budget: 7 223 108,75 €**  
**EU contributions: 6 119 378,75 €**

Start date: 1 October 2020  
 End date: 31 March 2024  
 Duration: 42 months

The work plan is composed of 9 work packages enhancing the implementation of RES, reducing fossil fuel consumption while ensuring the electric grid structures stability on islands. The stability of the electric power production is ensured by the developed cloud-based distributed Virtual Power Plant (VPP) that aggregates the capacities of intermittent Distributed Renewable Energy Resources (DRER) and reduce the use of fossil fuels.

The WP2 is devoted to identify islands needs in terms of energy transition, VPP value chain and services. The WP3 to WP6 are dedicated to develop Digital twin, IoT integration and smart functionalities including the DLT, VPP4I-Box and VPP4I-Platform needed in order to achieve the VPP4ISLANDS objectives. The output of WPs 2-6 will be integrated in demonstrations and validation environments in WP7 to provide real-life results of different use cases.



## Services

