

Virtual Power Plant for Interoperable and Smart isLANDS

Exploiting the full potential of intermittent renewable energy sources like the sun and wind has received a helping hand from so-called virtual power plants (VPPs).

VPPs remotely aggregate distributed energy resources from different physical locations into a network that reliably distributes energy around the clock. Islands face many challenges in terms of energy supply, demand side management and energy security.

The EU H2020 funded VPP4ISLANDS project is revolutionising conventional VPP by integrating virtual energy storage technology, digital twin and distributed ledger technology to enable enhanced VPPs and the creation of smart energy communities on islands.



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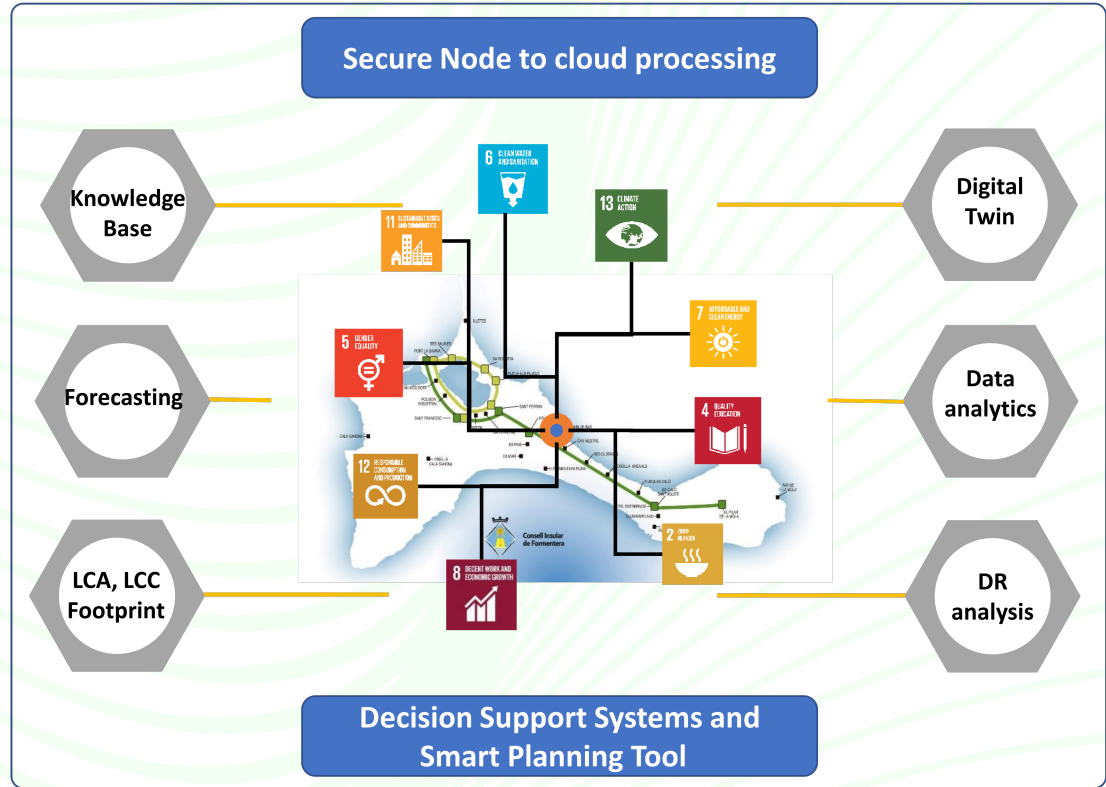
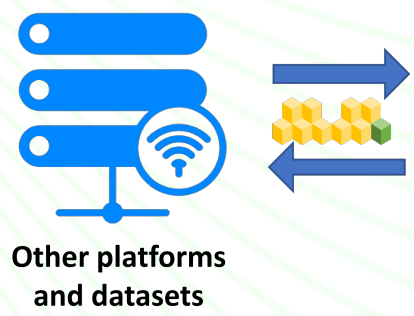
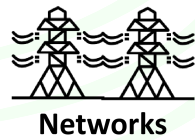
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 957852.



VPP4ISLANDS has several economic, technological, environmental and social impacts, with potential to improve the performance of distributed renewable energy sources (storage systems, dispatchable sources and variable outputs ...). Also, VPP4ISLANDS aims to strengthen European innovation capacity, identify new business opportunities for European companies and boost their growth. VPP4ISLANDS will provide additional durable social and environmental effects.

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