



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 785921.



Description

This **3-year project** (May 2018 – April 2021) with a total budget of **8 million euros**, will **continue the development of DTOcean** which produced a first generation of freely available, open-sourced design tools for wave and tidal energy arrays.

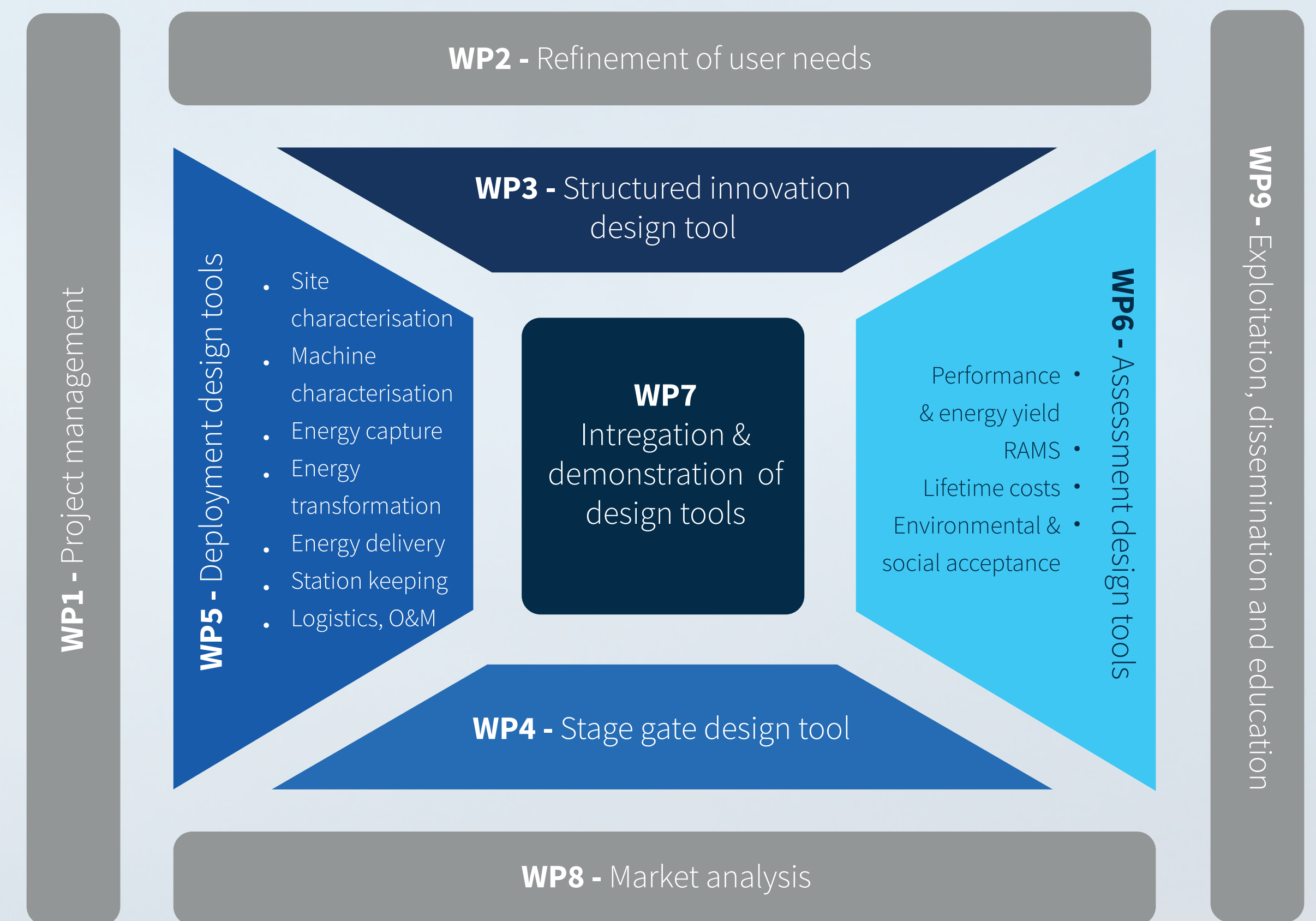


Objectives

- To support the **entire technology innovation process**, from concept to deployment.
- To propose advanced design tools for **sub-systems, energy capture devices and arrays**.
- To bring tools to TRL6 by demonstration scenarios **in real world cases**.
- To make **freely available** tools as **open source** to the entire ocean energy sector.
- To develop an integrated suite of tools that will be a **professional user-friendly** product.



Structure



Results

- **Structured innovation design tool**
- **Stage gate design tool**
- **Deployment design tools**
7 modules: Site characterisation, Machine characterisation, Energy capture, Energy transformation, Energy delivery, Station-keeping, Logistics and O&M
- **Assessment design tools**
4 modules: Performance & Energy Yield, RAMS, Lifetime Costs, Environmental and Social Acceptance

