

DTOcean+



An advanced
open source suite of tools
for the selection, development,
deployment and assessment of
tidal and wave energy systems



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from the European Union's Horizon 2020
research and innovation programme
under grant agreement n° 785921.

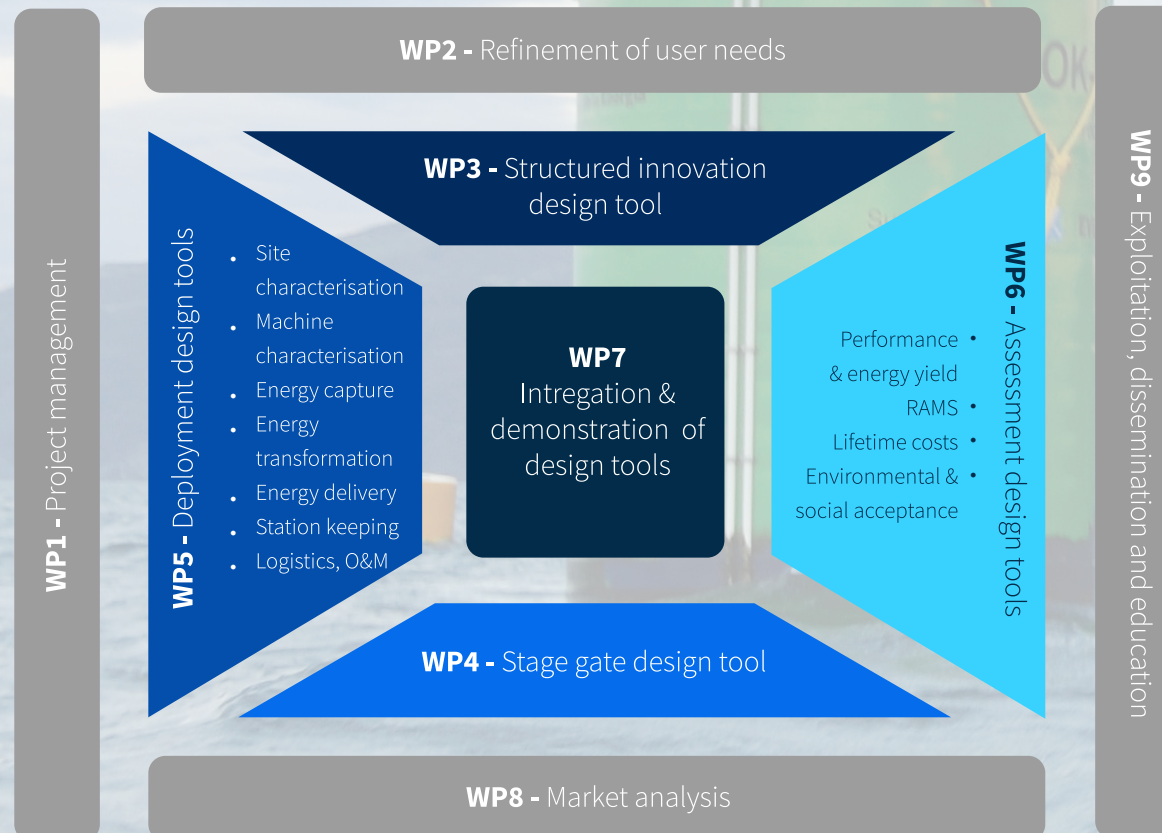


Description

This **40-month project** (May 2018 – August 2021) with a total budget of **8 million euros**, will continue **the development of DTOcean** which produced a first generation of freely available, open-source design tools for wave and tidal energy arrays.



Structure





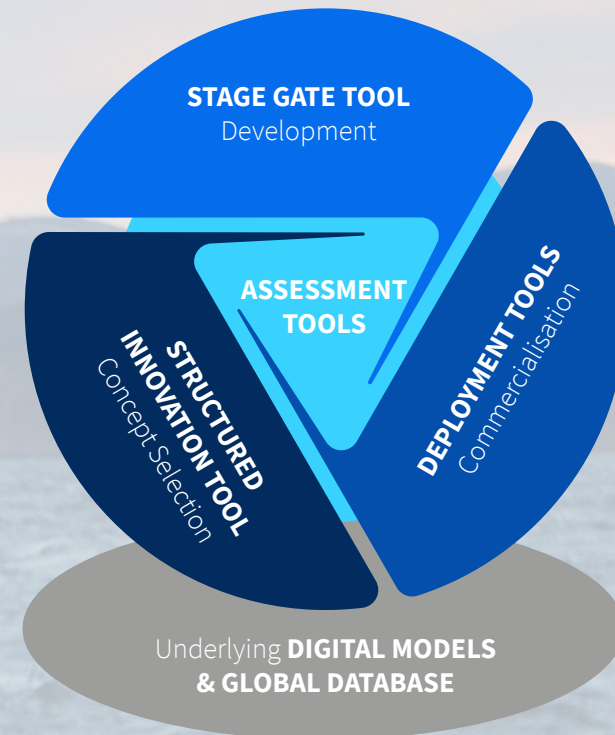
Objectives

- ›- 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.



Results

- ›- **Structured Innovation design tools**
- ›- **Stage gate design tools**
- ›- **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





Partners

Multidisciplinary team of **16 partners from 7 EU countries** with the collaboration of 2 leading **research laboratories from the USA**.



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