SAFE WAVE
STREAMLINING THE ASSESSMENT OF ENVIRONMENTAL EFFECTS OF WAVE ENERGY

Streamlining the Assessment of Environmental Effects of Wave Energy

Hosted by

ETIP OCEAN
European Technology & Innovation Platform for Ocean Energy

28 November 2024

This Project is co-funded by the European Climate, Infrastructure and Environment Executive Agency (CINEA)

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AZTI
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

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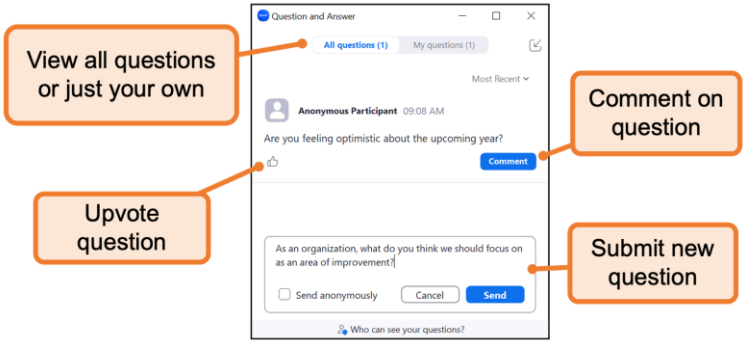
Some technical aspects

Mutted

Chat

If the attendees have any relevant information to share or comments

Q&A chat



AGENDA:

11:00-11:15 Introduction to the event and SafeWAVE project

11:15-11:35 Environmental Research Demonstration Strategy

11:35-11.55 Consenting and Planning Strategy

11:55-12:15 Public Education and Engagement Strategy

12:15-12:30 Final remarks - conclusions

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WESE
WAVE ENERGY
IN SOUTHERN EUROPE

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Scientific partners

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WavEC
Offshore Renewables

HIDROMOD
modelação em engenharia

CTN

CENTRALE NANTES

FONDATION OPEN-C

UCC
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

MaREI
Energy · Climate · Marine

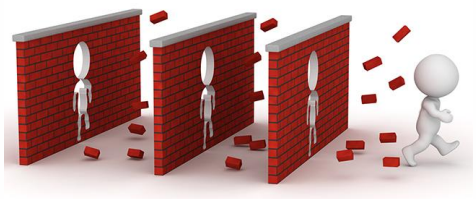
Industrial partners

BiMEP
Biscay Marine Energy Platform

RTsys
Underwater Acoustics & Drones

Geps TECHNO

CorPower Ocean



While the technological development of devices is growing, there are some **non-technological barriers** that could hinder the future development of WE in EU:

1. The environmental **risk and uncertainty about the potential environmental impacts** of WE developments.

2. The need of a **MSP approach** to overcome the potential competition and conflicts between WE and other marine users.

3. The complex and long **consenting processes**.

4. The opposition among **host communities** of future WE deployments.

The MAIN OBJECTIVE of the SafeWAVE project is to contribute to **overcome these non-technological barriers trough 3 strategies**

1. **Environmental Research Demonstration Strategy**
2. **Consenting and Planning Strategy**
3. **Public Education and Engagement Strategy**

1. **ENVIRONMENTAL RESEARCH DEMONSTRATION STRATEGY** based on the **collection, processing, modelling, analysis and sharing of environmental data** collected in WE sites from different European countries where WECs are currently operating (Mutriku power plant and BIMEP in Spain, Aguçadoura in Portugal and SEMREV in France).

Monitoring:

(i) Underwater noise

(ii) Seafloor Integrity

(iii) EMF

Modelization:

(i) Underwater noise

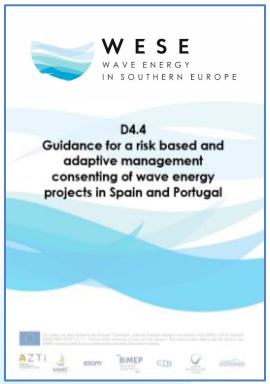
(ii) Marine dynamics

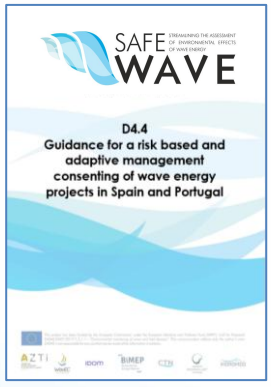
(iii) EMF

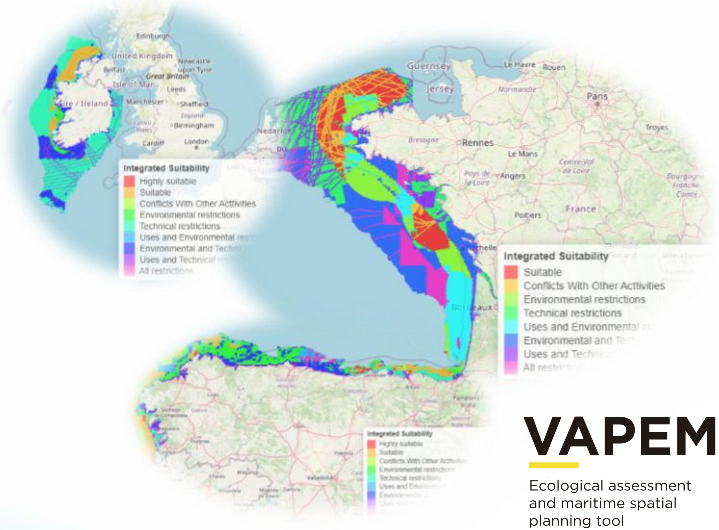
Sharing data:

MARENDATA

2. **CONSENTING AND PLANNING STRATEGY** through providing **guidance** to ocean energy developers and to public authorities tasked with consenting and licensing of WE projects in France and Ireland and the application of the **MSP decision support tool** developed for Spain and Portugal in the framework of the WESE project.







VAPEM
Ecological assessment and maritime spatial planning tool

3. **PUBLIC EDUCATION AND ENGAGEMENT STRATEGY** to work collaboratively with coastal communities in France, Ireland, Portugal and Spain, to co-develop and demonstrate a framework for education and public engagement (EPE) of MRE.

Academy, Regulators, Developers and Public in general could benefit of the project results

- Better knowledge of real environmental impacts reducing the uncertainty and de-risking some of the expected impacts.
- Decision Support Tools for site identification under Maritime Spatial Planning.
- Guidelines for environmental consenting.
- Development of an Education and Public Engagement frameworks

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