

# International coastal wave measurement networks and observatories

An overview of the situation  
in 9 different countries

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@Cerema



**ISPRA**

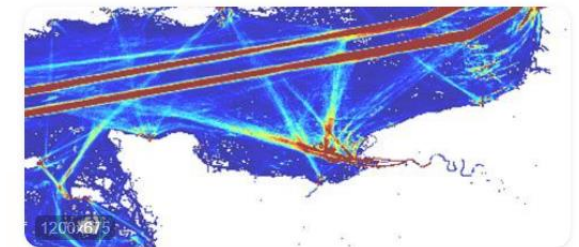
Italian National Institute  
for Environmental Protection and Research



# Coastal and maritime activities & services :

- ❑ Marine renewable energies
- ❑ Coastal risks
- ❑ Coastal environment
- ❑ Traffic and maritime safety
- ❑ Navigation and infrastructures
  
- ❑ Climate change and resilience
- ❑ Regional development and innovation
- ❑ Planification and impacts reduction
- ❑ Geo-data and shoreline monitoring
- ❑ Marine environment

*... including waves and wave climates*



# Waves @Cerema

## Data and knowledge provider

- Equipments
- In situ measure
- System information
- Network animation
- Numeric models  
(ANEMOC hindcast ..)
- Wave propagation  
(WW3, Telemac, ...)
- Physical models  
(wave flume)

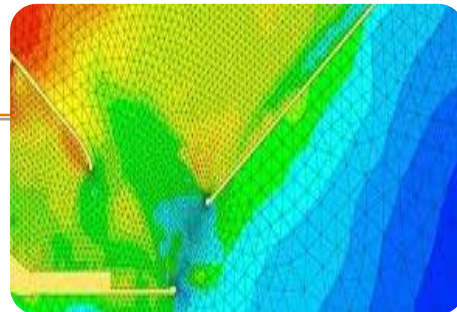
**CANDHIS**

Centre d'Archivage National de  
Données de Houle In-Situ



## User for expert services

- Coastal risk mngt
- Levee safety
- Post-storm analysis
- Port & maritime  
infrastructure
- Flooding risk mngt
- Marine Renewable  
Energies
- Safety of navigation
- Environmental  
knowledge
- Climate change
- ...



# Context and objectives of today's webinar

## CANDHIS2.0 ...the future of the French observatory

- ❑ International benchmark
  - Technical best practices
  - Services and Governance
  - Current developments
  - ...
- ❑ Potential partnerships for shared experience or development
  - Improve our understanding of measurement / analysis / services
  - Cross-border questions
- ❑ End-users needs and expectations
  - Raising awareness (limits and opportunities)
  - Wider international perspective