

**Seas, Oceans & Public
Health in Europe**

Linking oceans and health research

Innovative health solutions for coastal areas

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Deltares



SOPHIE is funded by the European Union's Horizon 2020 research and innovation programme, grant agreement No 774567.

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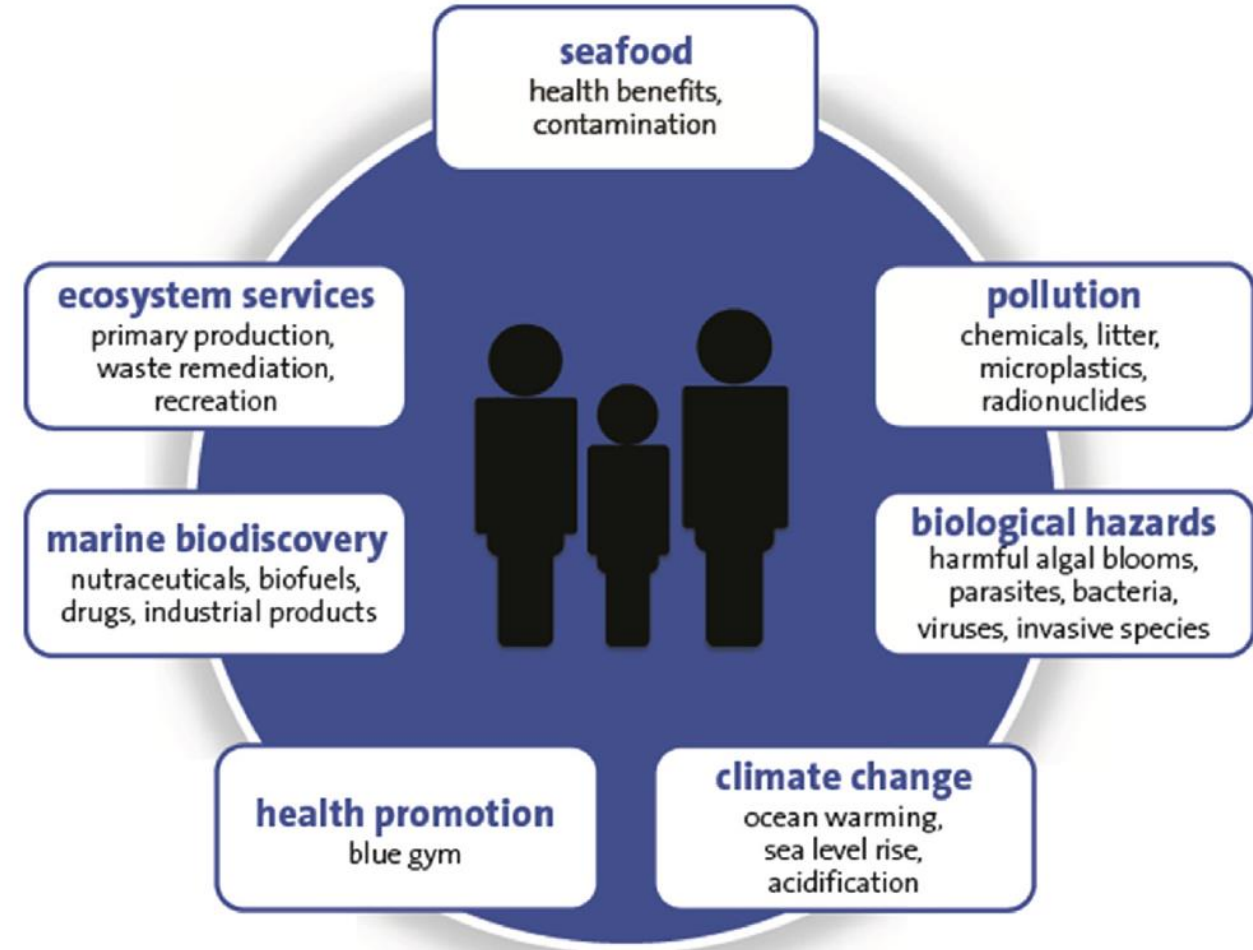
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Innovative approaches

- Coastal areas as specific blue-green spaces
- Initiatives that directly or indirectly promote the benefits of healthy oceans to human health and well-being
- Proposed by project partners and general public



Risks, Benefits and Opportunities of oceans and human health








What is an innovative approach?

- New initiative, recently implemented
- Out-of-the-box
- Combining
 - Beach / coastal areas / seas / oceans
 - Environmental issues
 - Health benefits









Inventory of innovative approaches

-  Work in progress!!
-  Database with collection of examples
-  Raw database (not publicly shared)
-  Summaries on website and in report
-  Highlighting inspiring types of approach
 - Interactive map or other visualisation
 - Narratives



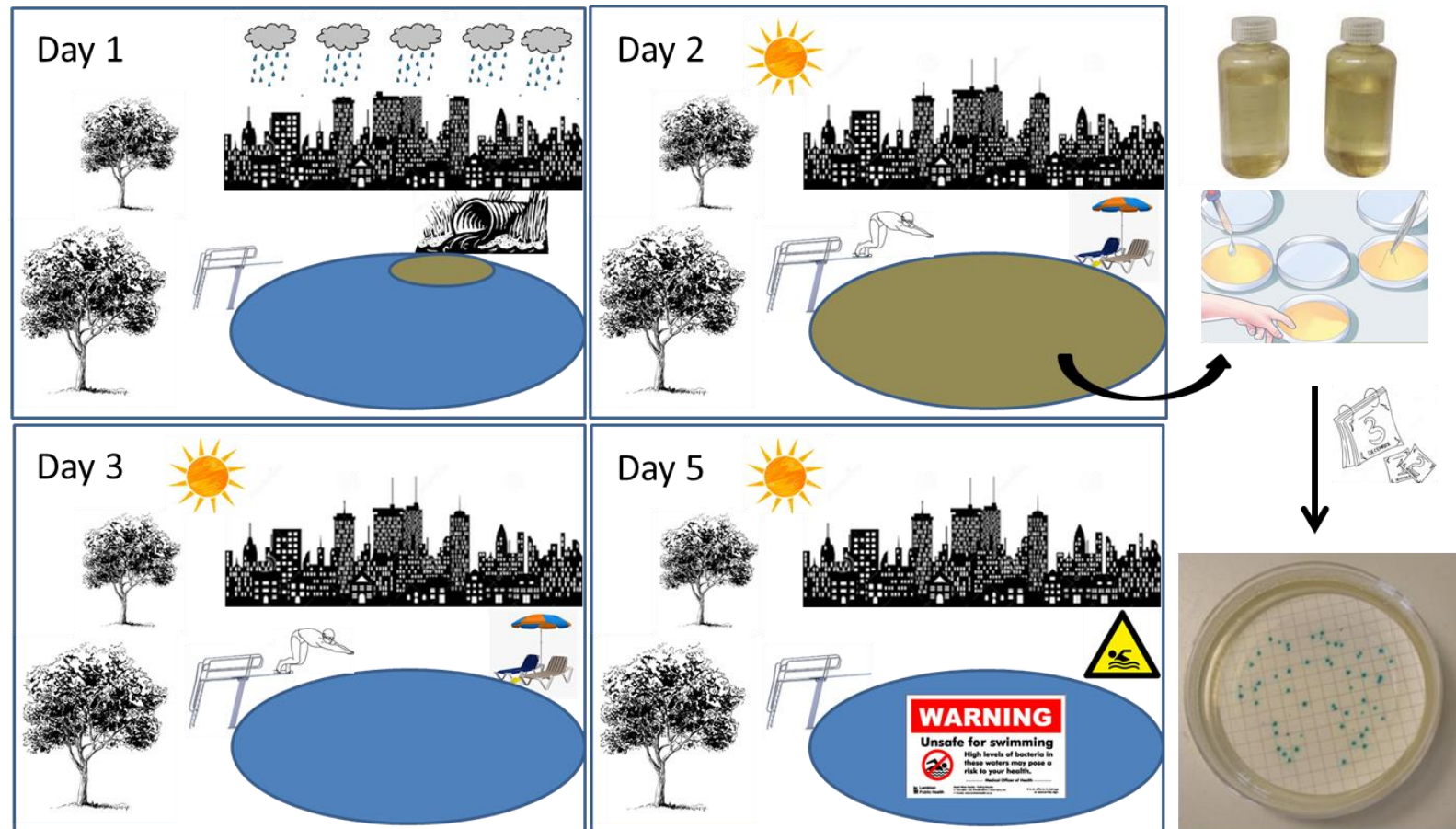
Examples grouped

- 🌊 Organizing local community with stakeholders
- 🌊 Sustainable fish and seafood 
- 🌊 Citizen science: for education, joint fact finding and data collection 
- 🌊 Early warning of public for bathing risks (pathogens, litter, jellyfish) 
- 🌊 Beach clean-up operations 
- 🌊 Recreation and sports 
- 🌊 Green beaches 



Example 1: early warning systems

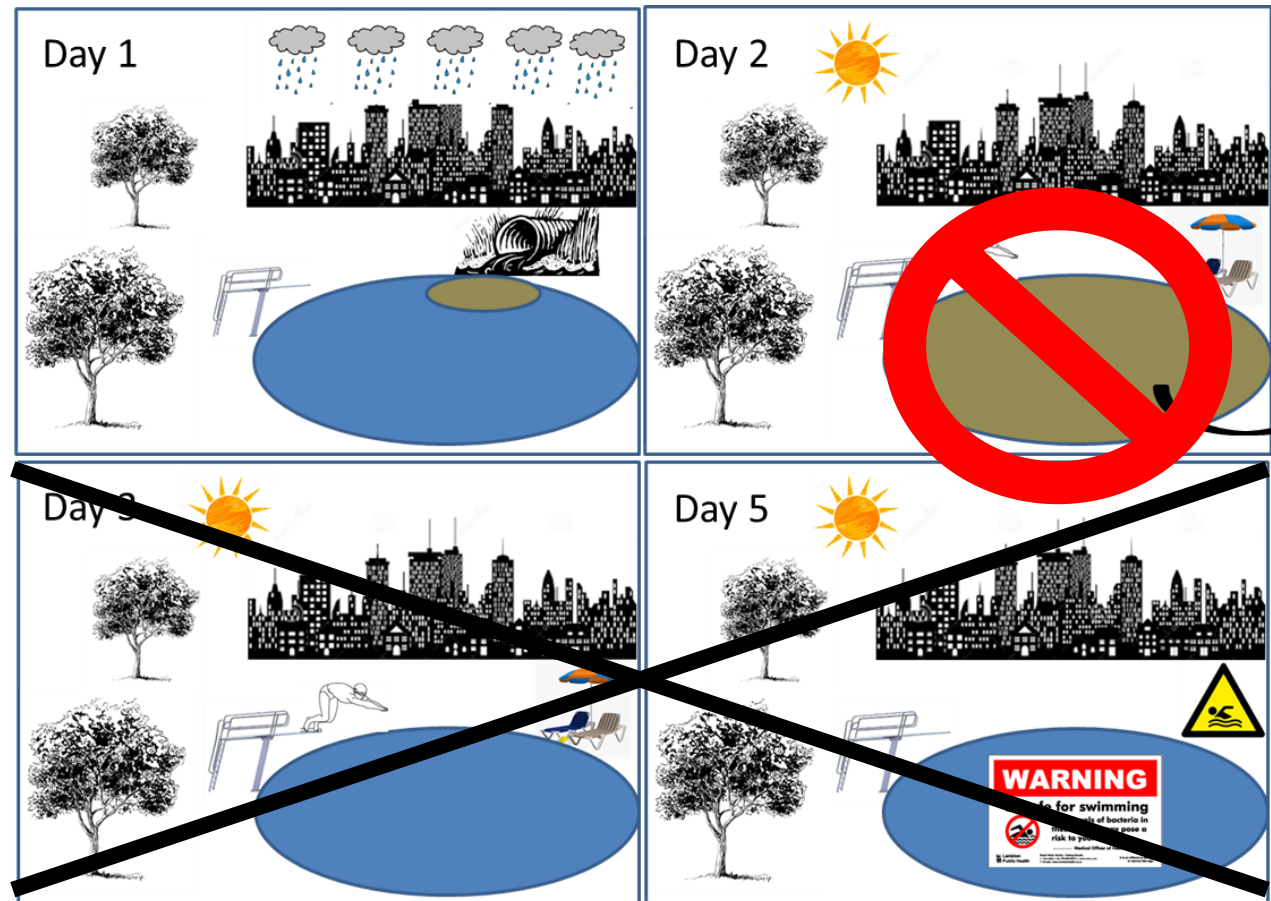
- Forecasting vs monitoring: early warning for pathogens
- Various initiatives





Example 1: early warning systems

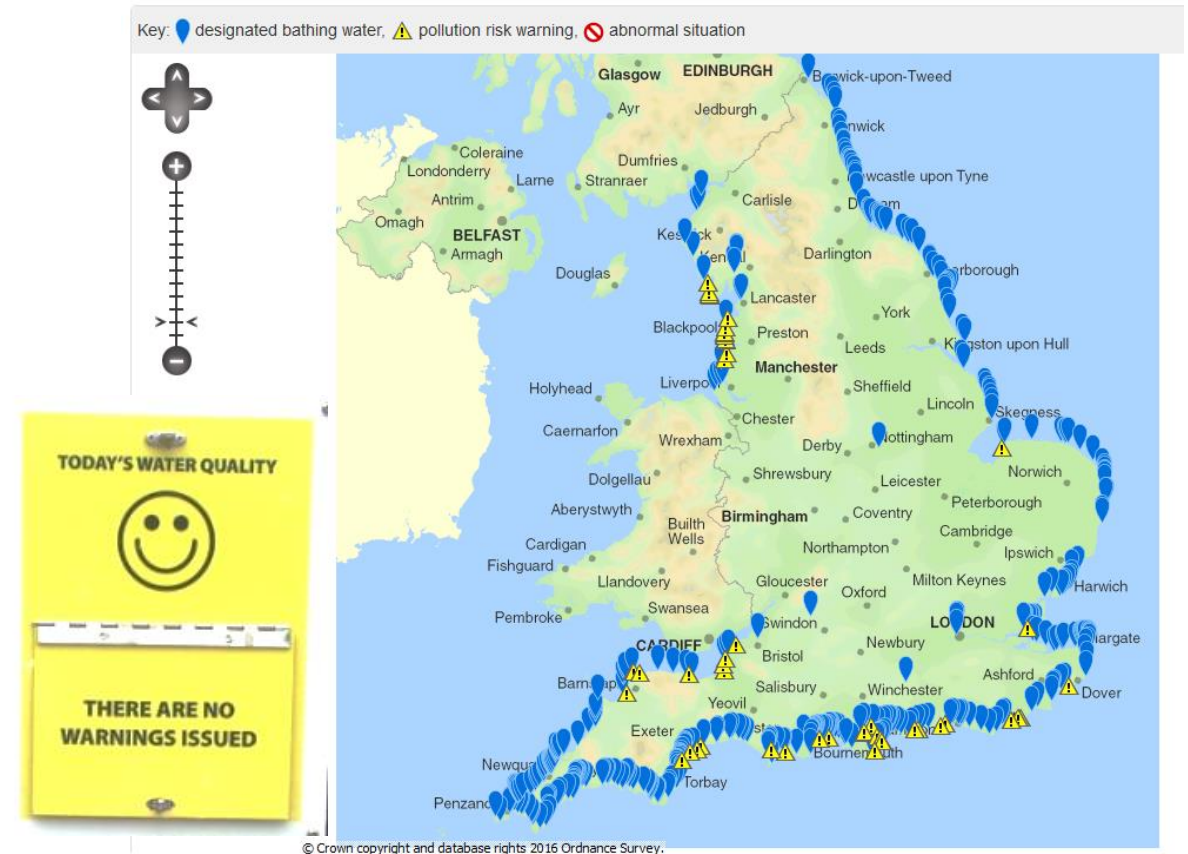
- Forecasting vs monitoring: early warning for pathogens
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Example 1: Example bathing water forecasting UK



- Environment Agency England
- Daily risk forecasts during bathing season, based on rainfall data
- All English coastal bathing sites
- Risk only predicted for sites with significant correlation between *Enterococci* and rainfall
- Forecasts communicated to public through website and beach managers



Example 2: litter collection & monitoring



Various initiatives

- Divers
- Fisherfolk
- Beach clean-up
- Kayak

Participatory, voluntary

Citizen science

- Classification
- Reporting

Awareness raising

Dive Against Debris®

Don't let your dives go to waste! Grab your mesh bag, scuba gear and data card to make every dive a Dive Against Debris





Example 2: Dive Against Debris



Top 10 Trash Items Found in the Ocean

More than **one million pieces** removed & reported through Dive Against Debris®



PROJECTAWARE.ORG
Where Conservation Meets Adventure™

*Data as of March 2018

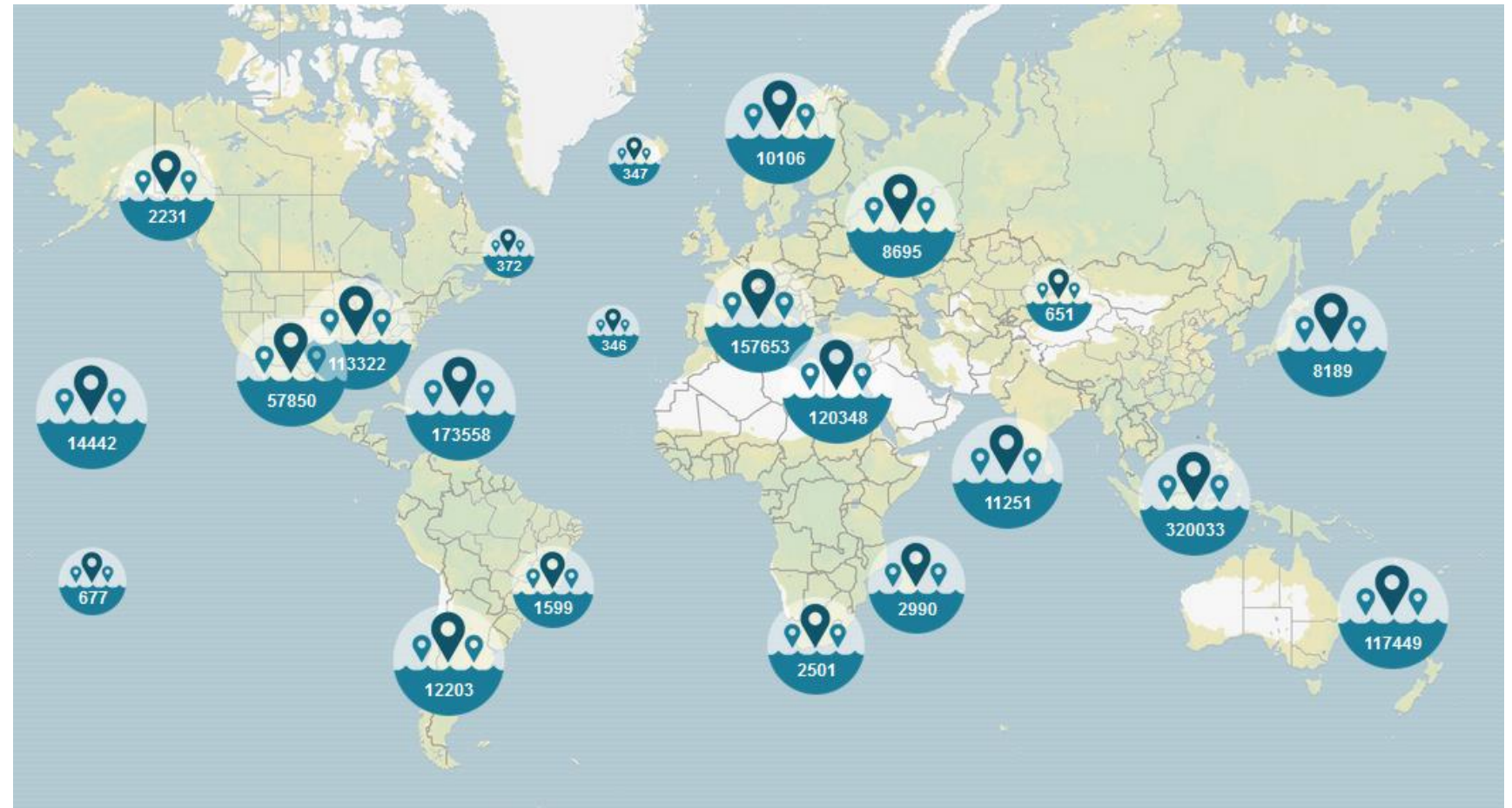


Dive Against Debris: monitoring as well



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Dive Against Debris: monitoring as well



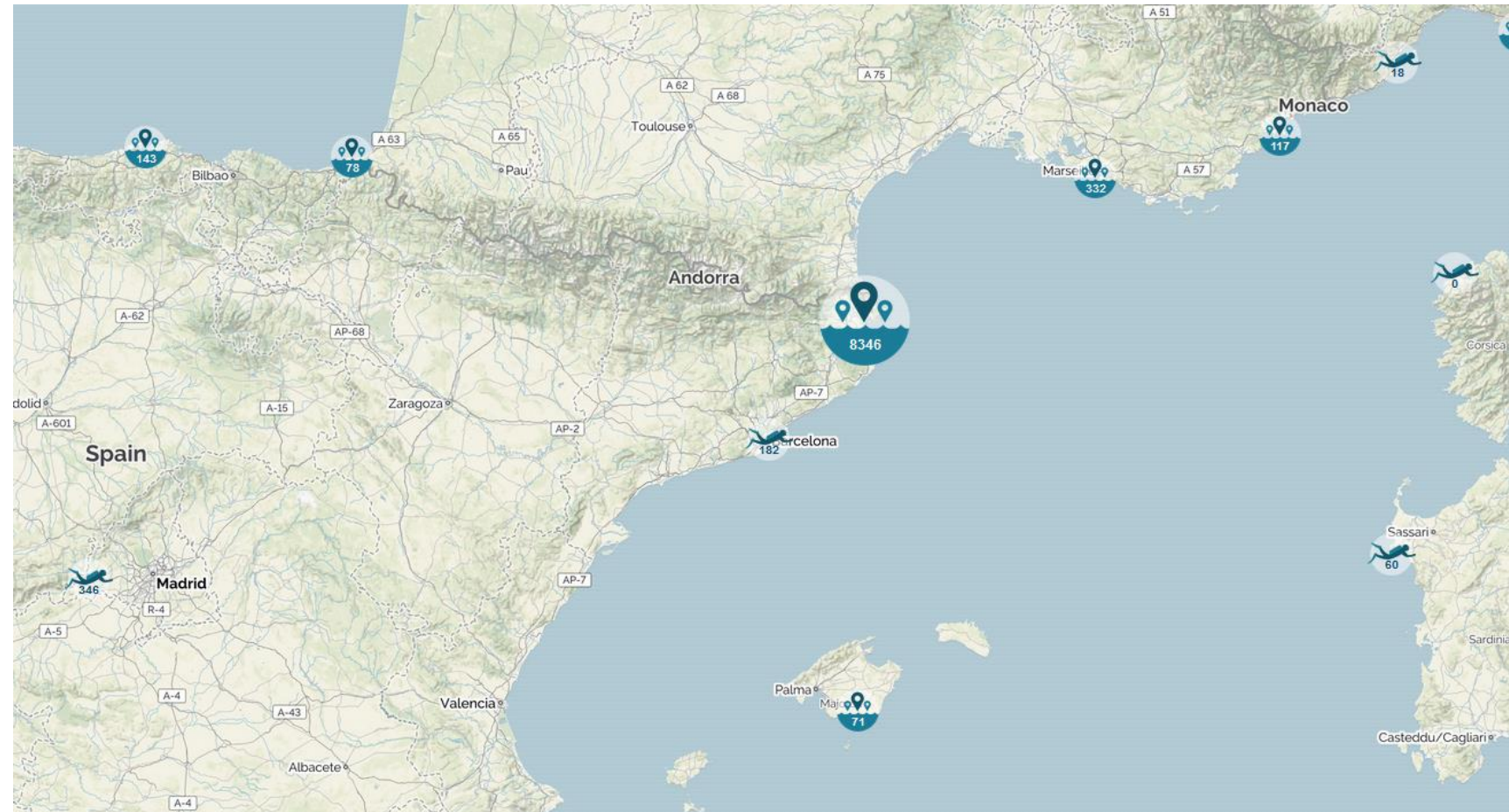


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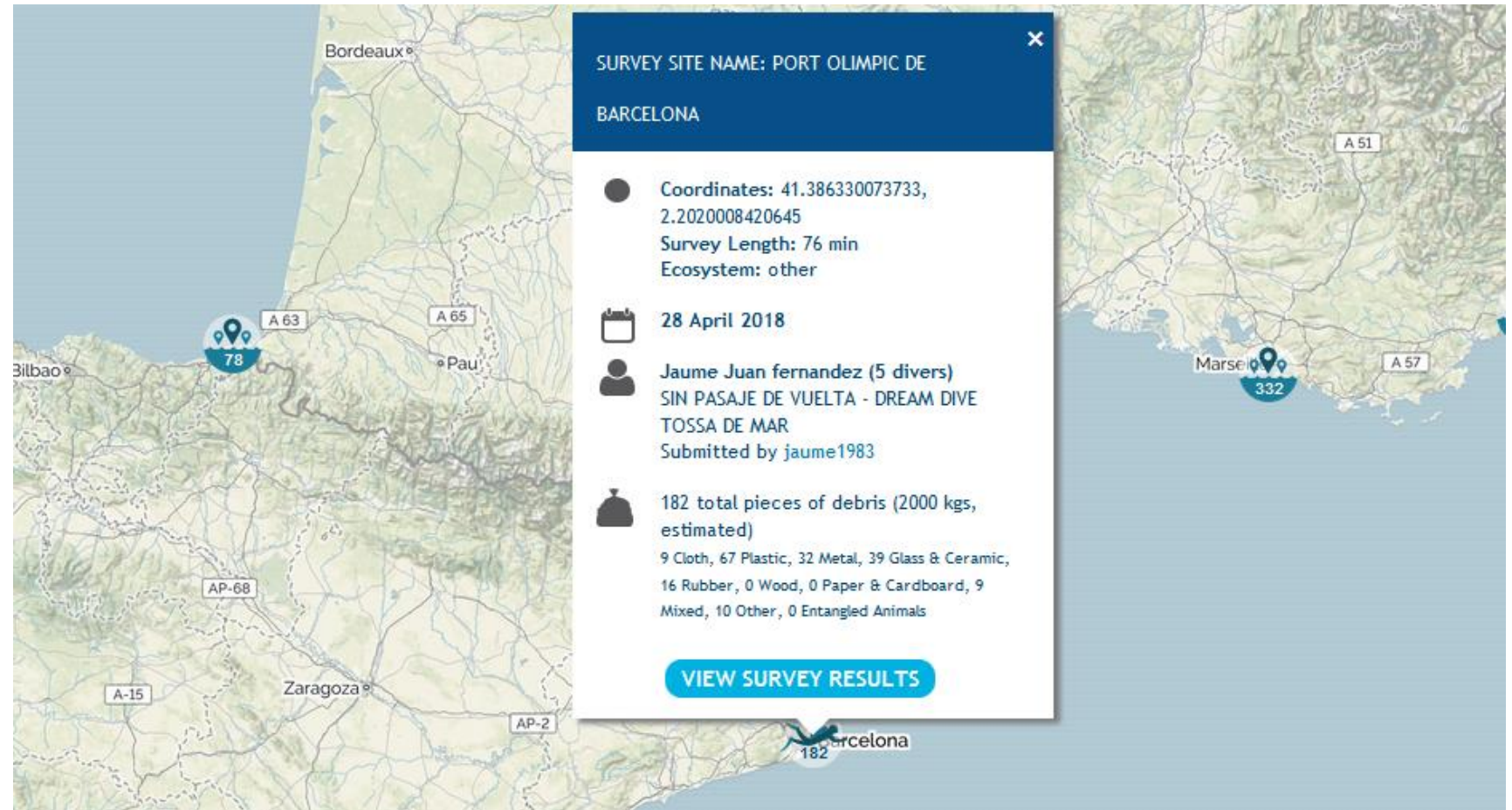


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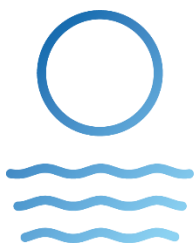
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Innovative solutions: input required

- For now: who can think of a good example?
- More innovations? Submit at <https://sophie2020.eu/>
 - Activities
 - Innovative solutions
- Please share the link!!



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Find out more at
<https://sophie2020.eu/>