
# Blue Economy and Innovation Clusters:

## Charting a course to animate Atlantic Area opportunities


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# Blue Economy:

- Blue Economy, Marine Economy, Maritime Economy, Ocean Economy – a relatively new term in use
- A Blue Economy can be defined by its **resources** (direct and indirect), **technologies** (both existing and future), **knowledge** and **expertise**
- A region's **Blue Economy is context dependent** (e.g. on regional resources)

"*These are our sectors, and these are our technologies we can support, or would like the opportunity to uptake*"


OECD (2016), *The Ocean Economy in 2030*, OECD Publishing, Paris, https://doi.org/10.1787/9789264251724-en.

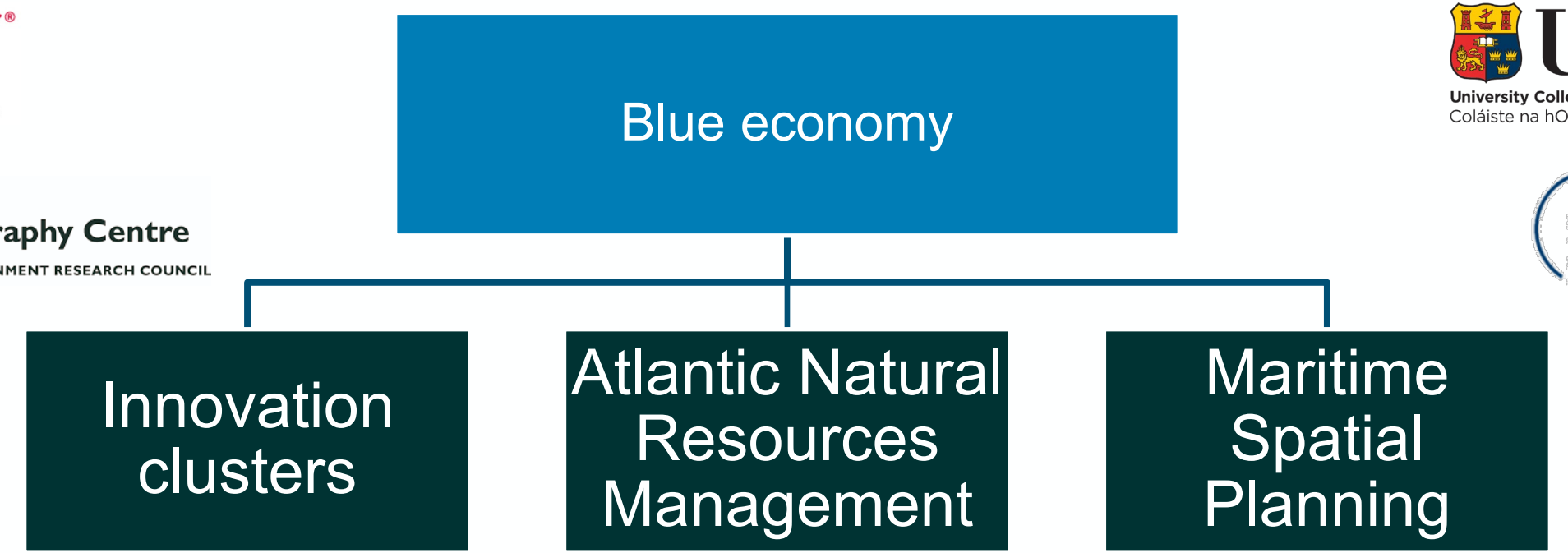
# Technology Innovation Clusters:

- **Industry, Government, Academia**, and wider community
- Technology innovation clusters are **geographically confined** and **sector-focused**.
- **Typically policy-led (top down)** approaches with the **aim to foster regional economic development** through **stakeholder engagement**.
- A cluster's goal is **to create and nurture innovative technology development**, in support of **regional economic development**.
- Each Cluster is **context-dependent and unique**.

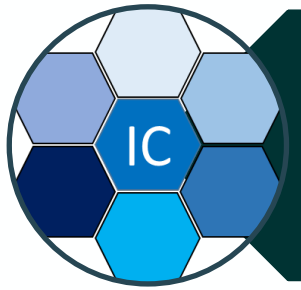
# **ESA Blue Economy:** Innovation Clusters, Atlantic Natural Resources Management and Maritime Spatial Planning

Project is part of the **ESA Atlantic Regional initiative** providing insights and solutions in the **Blue Economy arena**

*Demonstrating how EO can support the aspirations and requirements of EU marine policy*



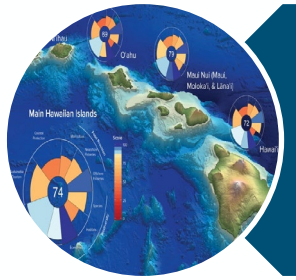
# **ESA Blue Economy:** Innovation Clusters, Atlantic Natural Resources Management and Maritime Spatial Planning




**Innovation clusters** - runs throughout the project and ensures impactful **stakeholder-centred development**, and future mapping.

It involves existing Atlantic regional clusters, and is identifying existing services and gaps for a **stakeholder-driven technological roadmap**

Roadmapping

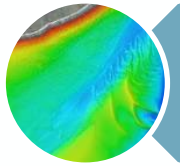



**Atlantic Natural Resources Management** – development and implementation of services based on actual use cases focused on **waves, tides and currents (EMEC) + coastal monitoring (CCO)**

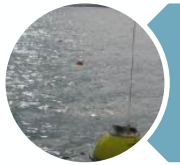
**Maritime spatial planning** – development and implementation of services based on actual use cases focused on coastal management and **marine litter dynamics**

Demonstrations

# Flood and coastal erosion risk management

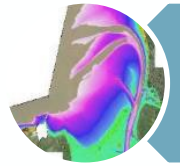


Fill in the gaps



Higher frequency data for 'low risk' areas

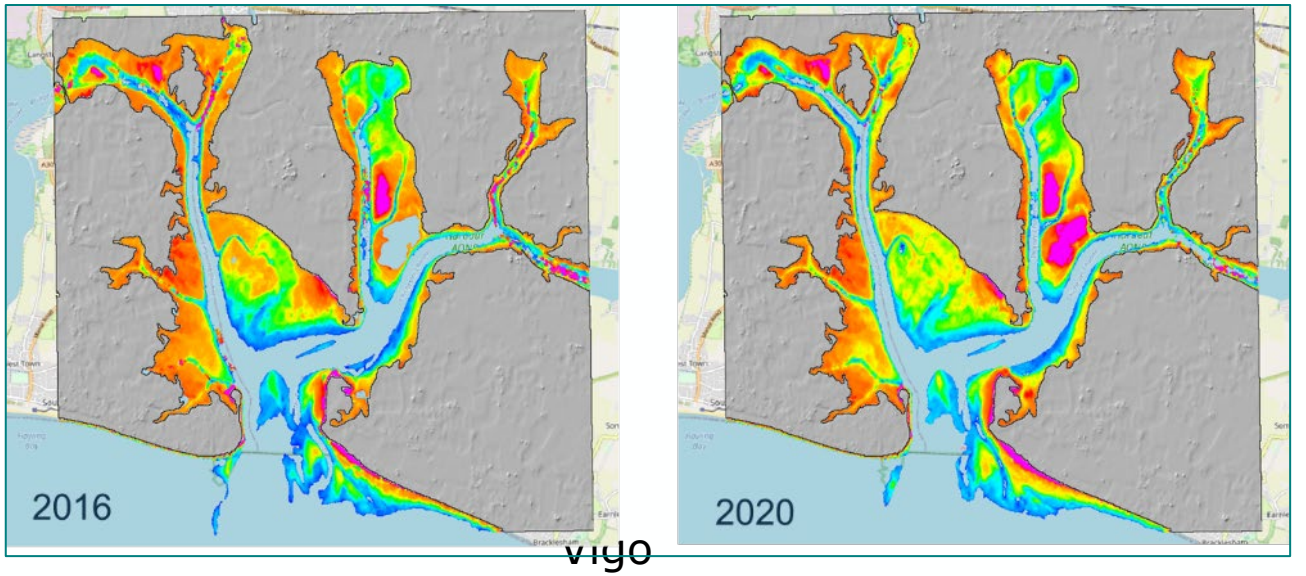
Wider spatial capture (e.g. after events)



Improved trend analysis where data capture difficult (e.g. bathy/intertidal)

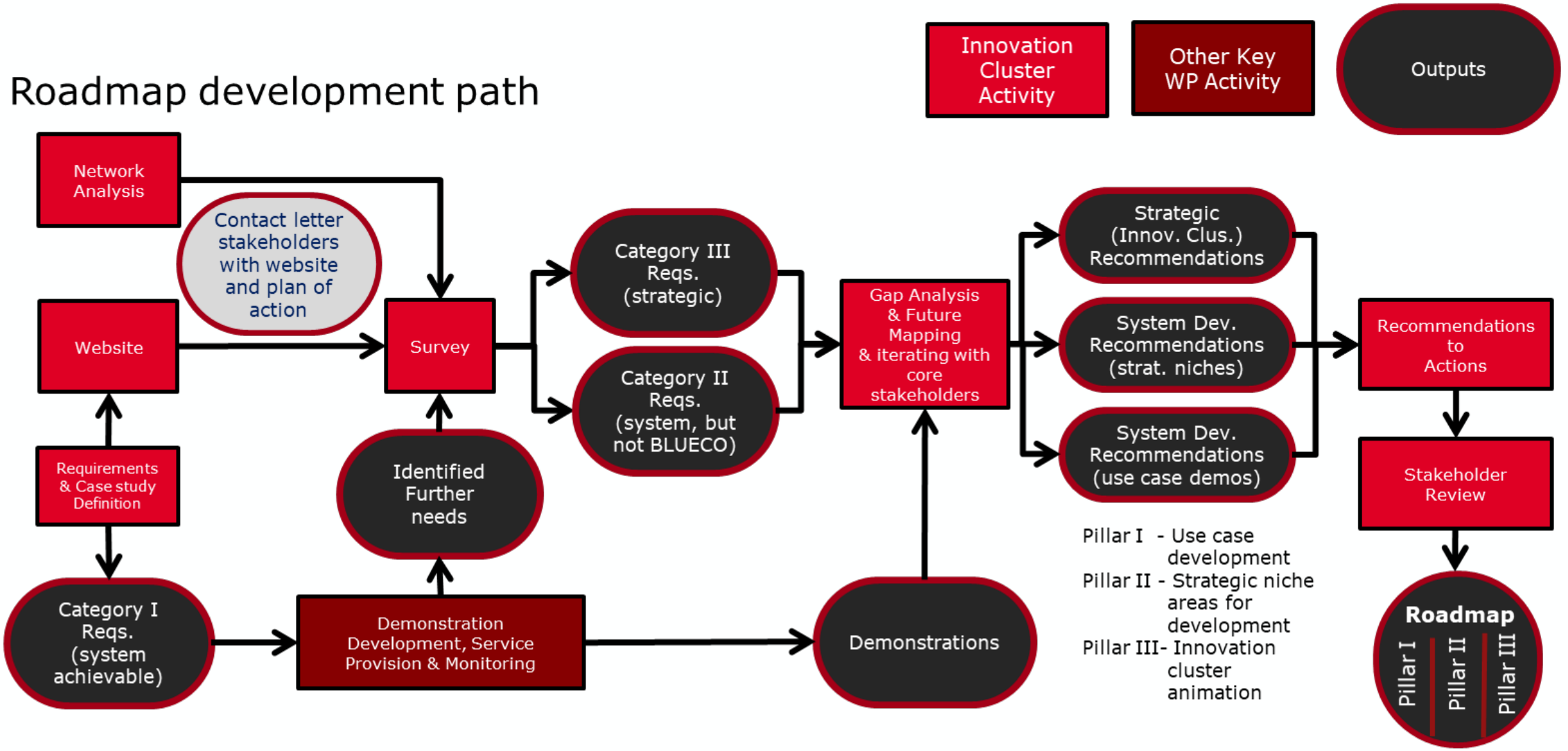
Better understanding of what happens 'between the lines' – seasonal & natural variability

Evaluation of the impact on management and monitoring of coastal zones for Flood and Coastal Erosion Risk Management




# Road-mapping and the role of Technology Innovation Clusters

# Developing the Innovation Clusters Roadmap:



# Some perspectives so far…
# Barriers to our maritime EO potential

- **Metadata – INSPIRE Compliant** data products needed for MSP;
- Need for improved engagement with maritime stakeholder, **presenting EO in maritime forums**;
- Need for more efficient **requirements gathering**;
- **Language and terminology** gap.

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## Opportunity to address these in partnership with Technology Innovation Clusters

# Bringing Space to Maritime… who?

## Key engagement points:

## The network hubs of collaborating clusters

BlueTech Cluster Alliance

AARC

ENMC European Network of Maritime Clusters

# Bringing Space to Maritime… where?


UNITED NATIONS OCEAN CONFERENCE

Lisbon, Portugal
27th June-1 July, 2022

# Bringing Space to Maritime… where?


**Conferences:**

**+ 30 panel discussions**

**Speakers:**

**+ 150 speakers**

**Workshops:**

**+20**

**Partners involved so far:**

**Blue Tech Cluster Alliance**

**AspBan** **FCT**

**WWF** **Altantic Centre (MDN)**

**Sustainable Brands**

**WestMED**

**DGPM**

# Food for Thought

- Are the **mechanisms** in the larger space sector entities such as ESA which can be used to connect to these non-space cluster networks?
- **Which Blue Economy sectors** are the EO sector **best positioned** to support?
- **Which Blue Economy sectors** are the EO sector **most interested** in supporting?
- Long-term-minded space agencies

versus

Rapidly changing Blue Economy sectors

**Can Technology Clusters be our conduits for strategic guidance?**