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Sustainable Blue Economy Partnership

Observing requirements and decision-making tools to support a Sustainable Blue Economy

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Sustainable Blue Economy Partnership (SBEP)

Design, steer and support a **just and inclusive transition** to a regenerative, resilient and **sustainable blue economy**.

The SBEP aims to boost the transformation needed towards a climate-neutral, sustainable, productive and competitive blue economy by 2030, while creating and supporting the conditions for a healthy ocean for the people by 2050.



Work Programme CLUSTER VI HORIZON-CL6-2022-GOVERNANCE-01-02 – Food, Bioeconomy, Natural Resources, Agriculture and Environment / Destination 7 – Innovative governance, environmental observations and digital solutions in support of the Green Deal



transform the blue economy in line with the EU Green Deal and Digital strategies and the Recovery Package.

contribute in the medium term to the 9 Expected Outcomes (EOs) of call HORIZON topic HORIZON-CL6-2022-GOVERNANCE-01-02 and in the wider long term to 6 Expected Impacts (EIs) addressed in the Destination 7 – Innovative governance, environmental observations and digital solutions in support of the Green Deal,

Connected areas of impact to which outcomes of SBEP R&I co-funded projects can contribute Climate change mitigation and adaptation; Enhancing ecosystems and biodiversity on land and in water; Sustainable food systems from farm to fork on land and sea; High quality digital services for all

In cash and in-kind contribution by 25 MS/AC + EC top-up (in cash) to launch joint calls and implement additional activities (capacity building, shared use of research infrastructures, etc...)



Strategic Research and Innovation Agenda (<u>SRIA</u>)

Built on priorities of MS/AC +
EC + Sea-basins initiatives, with
support of JPIO

Composed of 4 Pillars > 13
Clusters > 39 Objectives & 7
Cross-cutting key enablers





Intervention areas











 Development and validation of Ocean Digital Twins at sub sea-basin scale

Blue generation marine structures

Planning and managing seauses Healthy 'Blue Food' under a 'One Health' approach Enabling the green transition of 'Blue Food' production Mathematical models / Upper Oceans BL and Atmosphere, shallow seas, BL on the beaches and sub slopes, turbulent ocean ...



eesa





Initial focus on spatially limited area (Pilot)

- start with some existing dataset of marine and biological data, and
- put more sensors for biological species
- solve at small scale (size, models, effort)
- apply the DT and learn
- expand the scale, increase systems and interactions

Algorithmic, computational, physical, biogeochemical, and technological innovations, drawing together elements of fluid dynamics, statistics, meteorology, oceanography, ecology and computer science



Thank you for your attention

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