



TECHNOLOGICKÉ  
CENTRUM AV ČR

# MISSION OCEANS AND SOIL

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# RESTORE OUR OCEAN AND WATERS



# RESTORE OUR OCEAN AND WATERS



- objective: to restore by 2030 the health of our ocean and waters

## ➤ focused on:

- ✓ protection and restoration of marine and freshwater biodiversity and ecosystems,
- ✓ elimination of pollution,
- ✓ making the blue economy carbon-neutral and circular

## ➤ 2 phases:

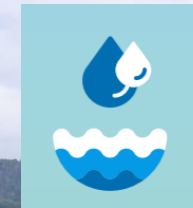
- *development and piloting* (2022-2025) – *lighthouses* as hubs and platforms for the development and demonstration of innovations
- *deployment and upscaling* (2026-2030) – solutions piloted in the first phase further developed and replicated



*Mission Starfish, as proposed by the Mission Board Healthy Oceans, Seas, Coastal and Inland Waters<sup>2</sup>*

# TOPICS WP 2023

- opening: 17.1.2023
- deadline: 20.9.2022
- budget: 87,7 mil. eur



# TOPICS WP 2023



- ✓ **HORIZON-MISS-2023-OCEAN-01-01: European Blue Parks – Protection and restoration of marine habitats**
  - IA, 1 project, 8,8 mil. €, TRL 5-7
- ✓ **HORIZON-MISS-2023-OCEAN-01-02: Danube river basin lighthouse – Demonstration of effective and sustainable management of sediments in the Danube river-Black sea system**
  - IA, 2 projects, 8,5 mil. € per project, TRL 5-7
  - demonstration activities in at least 3 diff. countries of Danube river basin
  - financial support to third parties; cooperation with min. 5 associated regions
- ✓ **HORIZON-MISS-2023-OCEAN-01-03: Atlantic and Arctic sea basin lighthouse**
- ✓ **– Addressing climate change and human activities threats to marine biodiversity**
  - IA, 2 projects, 8 mil. € per project, TRL 5-7
  - financial support to third parties
- ✓ **HORIZON-MISS-2023-OCEAN-01-04: European natural lakes: demonstration**
- ✓ **of integrated approaches for protection and restoration of natural lake ecosystems and their biodiversity**
  - IA, 3 projects, 4 mil. € per project, TRL 5-7
  - demonstration activities in at least 3 diff. countries
  - financial support to third parties; cooperation with min. 3 associated regions



*'Associated regions' are understood as areas with ecosystems that can benefit from the demonstration activities (e.g. neighbouring regions and/or regions in a different sea basin) and/or less-developed regions, with the need to build capacity to implement the innovative solutions to restore freshwater ecosystems.*



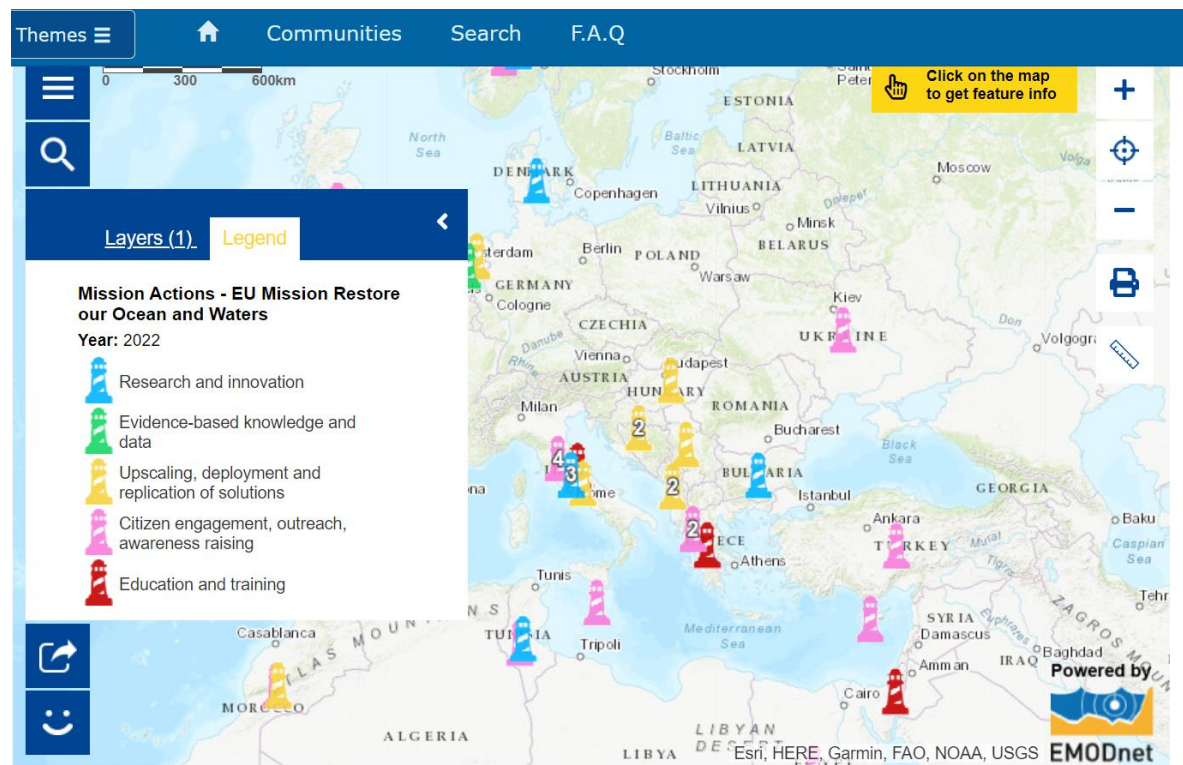
# TOPICS WP 2023



- ✓ HORIZON-MISS-2023-OCEAN-01-05: Lighthouse in the Baltic and the North Sea basins - Lighthouse in the Baltic and the North Sea basins - Green and energy-efficient small-scale fishing fleets
  - IA, 3 projects, 4 mil. € per project, TRL 4-6
- ✓ HORIZON-MISS-2023-OCEAN-01-06: Cross-basin topic - Innovative nature-inclusive concepts to reconcile offshore renewables with ocean protection
  - RIA, 2 projects, 2,25 mil. € per project, TRL 3-4
- ✓ HORIZON-MISS-2023-OCEAN-01-07: Cross-basin topic - Analysis of the obstacles and opportunities for repurposing aged/unused offshore infrastructures
  - RIA, 1 project, 1,4 mil. €, TRL 4-5
- ✓ HORIZON-MISS-2023-OCEAN-01-08: Integration of socio-ecological models into the Digital Twin Ocean
  - RIA, 3 projects, 3,3 mil. € per project, TRL 3-5
- ✓ HORIZON-MISS-2023-OCEAN-01-09: Roadmap towards the integration of inland waters into the Digital Twin Ocean
  - CSA, 1 project, 2 mil. €
- ✓ HORIZON-MISS-2023-OCEAN-01-10: Choose your fish: a campaign for responsible consumption of products from the sea
  - CSA, 1 project, 2 mil. € per project
- ✓ HORIZON-MISS-2023-OCEAN-01-11: Ocean & water and arts: the contribution of creative sectors to Mission Ocean and waters
  - CSA, 1 project, 2 mil. € per project

# MISSION CHARTER

- non-binding and open to any public or private interested parties
- to promise actions that will contribute to the successful implementation of the Mission
- access to knowledge, services and tools through the European Digital Twin Ocean, the Mission Implementation Platform and other coordination actions at basin level



# A SOIL DEAL FOR EUROPE



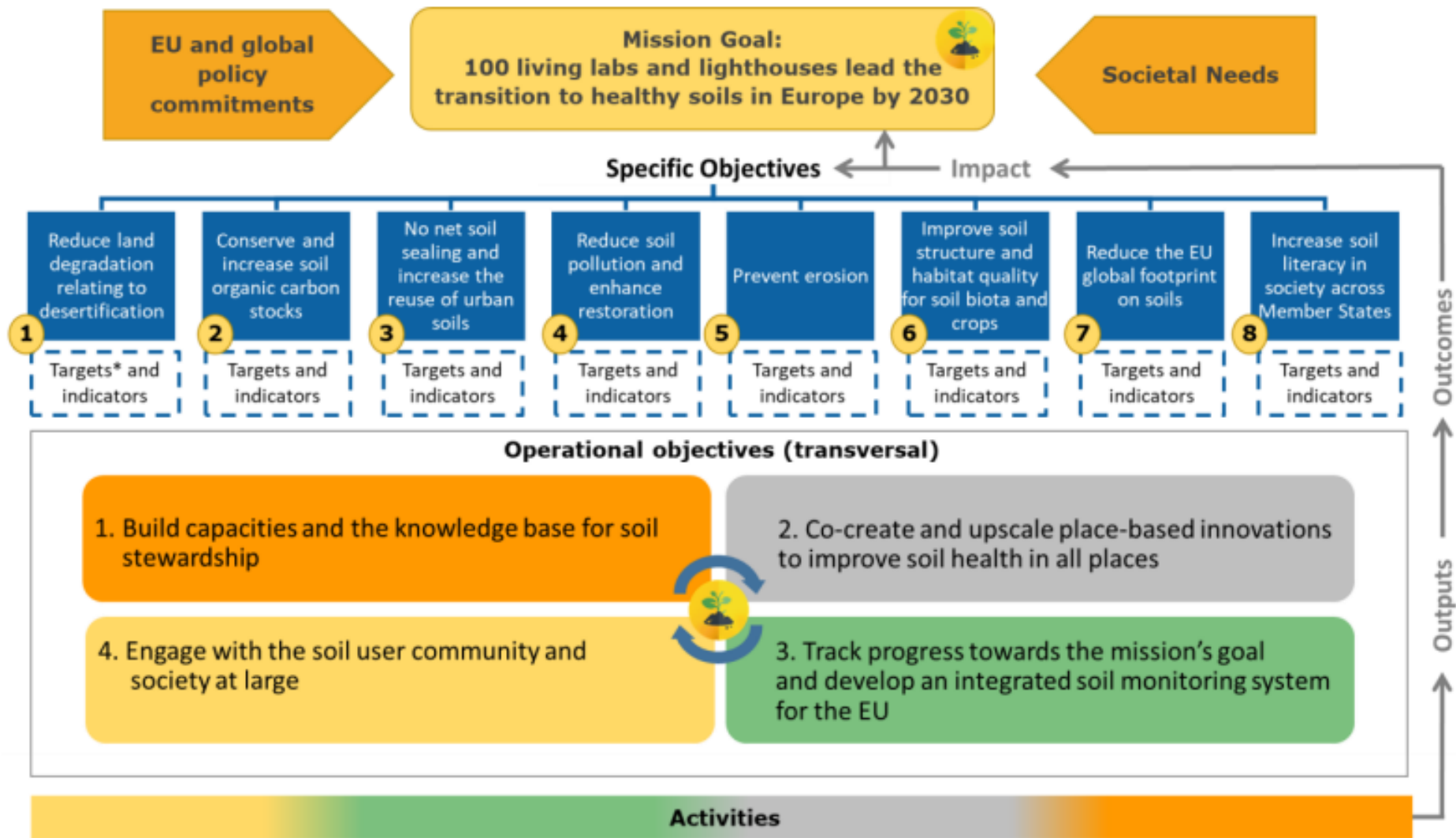


# A SOIL DEAL FOR EUROPE



- aim: to establish 100 **living labs** and **lighthouses** to lead the transition towards healthy soils by 2030
- 8 mission objectives:
  - ✓ reduce desertification
  - ✓ conserve soil organic carbon stocks
  - ✓ stop soil sealing and increase re-use of urban soils
  - ✓ reduce soil pollution and enhance restoration
  - ✓ prevent erosion
  - ✓ improve soil structure to enhance soil biodiversity
  - ✓ reduce the EU global footprint on soils
  - ✓ improve soil literacy in society

# MISSION'S INTERVENTION LOGIC



\* Quantitative aspirational targets (some of which correspond to existing Green Deal targets)

■ Source: Soil mission Implementation Plan



# TOPICS WP 2023

- opening: 17.1.2023
- deadline: 20.9.2022
- budget: 126 mil. €



# TOPICS WP 2023



- ✓ **HORIZON-MISS-2023-SOIL-01-01: Discovering the subsoil**
  - RIA, 2 projects, 6 mil. € per project
- ✓ **HORIZON-MISS-2023-SOIL-01-02: Soil pollution processes – modelling and inclusion in advanced digital decision-support tools**
  - RIA, 2 projects, 7 mil. € per project
- ✓ **HORIZON-MISS-2023-SOIL-01-03: Onsite digital technologies to monitor nutrients and chemical or biological stressors in soil and plants with relevance for food safety and nutrition**
  - IA, 2 projects, 6 mil. € per project, TRL 7-8
- ✓ **HORIZON-MISS-2023-SOIL-01-04: Innovations to prevent and combat desertification**
  - IA, 2 projects, 7 mil. € per project, TRL 5-7
- ✓ **HORIZON-MISS-2023-SOIL-01-05: Soil-friendly practices in horticulture, including alternative growing media**
  - IA, 2 projects, 6,5 mil. € per project, TRL 5-7

# TOPICS WP 2023



- ✓ **HORIZON-MISS-2023-SOIL-01-06: Soils in spatial planning**
  - RIA, 1 project, 7 mil. €
- ✓ **HORIZON-MISS-2023-SOIL-01-07: Back to earth: bringing communities and citizens closer to soil**
  - CSA, 1 project, 6 mil. €
- ✓ **HORIZON-MISS-2023-SOIL-01-08: Co-creating solutions for soil health in Living Labs**
  - RIA, 3 projects, 12 mil. € per project
  - financial support to third parties
- ✓ **HORIZON-MISS-2023-SOIL-01-09: Carbon farming in living labs**
  - RIA, 1 project, 12 mil. €
  - financial support to third parties



# NCPs CLUSTER 6

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