

Use Case Scenario for Transition Agendas

ROADMAPS FOR REPLICATION OF DEMONSTRATION SITES

**EMPOWERING COMMUNITY- LED
ACTION IN THE ATLANTIC & ARCTIC**



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BLUEACTIONAA

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Use case Overview

Use case title

Roadmaps for replication of demonstration sites.

Short Description

This case illustrates how strategic roadmaps were developed to support replication and upscaling of restoration solutions (for oyster reefs, seagrass meadows, sedimentary soft-bottom habitats, rocky reef systems and Arctic fjords) in multiple European regions. The roadmap process focused on enabling replication across institutional, environmental and regulatory contexts rather than implementing restoration actions. It applied a structured methodology across demonstration–replication pairs to identify shared constraints, enabling conditions, financing needs, governance roles, monitoring requirements and innovation pathways. Through co-creation workshops, paired meetings and cross-habitat analyses, the process identified systemic barriers such as fragmented permitting, short project cycles, limited monitoring continuity and gaps in financial readiness. It also outlined strategic actions across governance, financing, data and monitoring, and innovation to support long-term implementation. The roadmaps provide guidance for replication sites to adapt solutions to local contexts and contribute to planning aligned with the objectives of the EU Mission “Restore our Ocean and Waters.”

Country and Region

Multiple European regions participating in CLIMAREST replication (Sweden, Greece, Germany, Croatia, Cyprus).

Type of transition agenda

Strategic roadmap

Domain/Sector

Marine Science; Environmental Protection; Coastal Management

Current status

Replicated/Transferred

Geographical scope

Coastal/EEZ

Organization's categorization

Regional and local (public) authority; NGOs, foundations (public and private), professional association, community-based organizations including civil society and citizen associations; SMEs and Large Enterprises; Cultural and Educational organizations; Research organizations and academia.

Promoter's information

- Organization's name: SINTEF Ocean AS
- Place: NORWAY
- EU Mission Restore Our Oceans and Seas related project: CLIMAREST

Use case duration

- From Year 2023 to Year 2025
- Number of Months: 30

Keywords

Roadmap / Replication / Restoration

Website link

<https://climarest.eu/intro/>

Use case picture



Design

Alignment and contribution to the objectives of the EU Mission Restore Our Oceans and Waters 2030.

The roadmap supports protection and restoration of marine ecosystems by helping regions understand how restoration solutions can be adapted to their contexts. It contributes to preventing and eliminating pollution by addressing monitoring requirements and environmental pressures relevant for replication. It also supports a climate neutral blue and circular economy by outlining strategic actions that enable long-term implementation and scaling of restoration approaches.

Challenge's definition and Primary Objective

The roadmap process addressed challenges linked to institutional, environmental and regulatory differences that affect the ability to replicate restoration solutions. Its primary objective was to identify shared constraints such as fragmented permitting, short project cycles, limited monitoring continuity and financial readiness gaps. By analyzing these barriers and the conditions needed to overcome them, the roadmap aimed to support regions in preparing for replication and long-term implementation of restoration approaches.

End users

Regional authorities, policymakers, environmental managers, research organizations, NGOs and others involved in planning or coordinating restoration activities.

Gender equality and diversity

Gender considerations were integrated by collecting gender-disaggregated data and by including reflections on gender balance. This ensured that differences in perceptions and attitudes towards marine and coastal restoration could be examined in a structured and comparable manner.

Implementation

Implementers

Regional and local (public) authority; NGOs and community-based organizations; SMEs and Large Enterprises; Cultural and Educational organizations; Research organizations and academia.

Concrete Solutions and Actions taken

A structured methodology was applied to support replication and upscaling. This included working across demonstration–replication pairs to identify shared constraints, enabling conditions, financing needs, governance roles, monitoring requirements and innovation pathways. Co-creation workshops and paired meetings were used to organize discussions, and cross-habitat analyses helped highlight systemic barriers such as fragmented permitting, short project cycles, limited monitoring continuity and financial readiness gaps. The process also identified strategic actions across governance, financing, data and monitoring, and innovation to support long term implementation. These actions were designed to help replication sites adapt restoration solutions to their own contexts and to support broader planning efforts.

Community Engagement Needs

Communities needed clarity on the conditions required for replication, including restoration practices, monitoring expectations, regulatory processes and long-term planning. The roadmap addressed these needs by identifying the factors that influence replication and by outlining how solutions could be adapted to different regional contexts.

Community Engagement Measures

Engagement was ensured through co-creation workshops, paired meetings and structured discussions across regions. These activities allowed stakeholders to participate in identifying constraints, needs and enabling factors for replication.

Community Engagement benefits

Communities benefit from clearer planning pathways, better understanding of regulatory processes needs and improved ability to prepare for and support future restoration efforts in their regions.

Monitoring and Evaluation

Technical Risks

N/A

Operational constraints

N/A

Legal/Regulatory Constraints

Fragmented permitting and complex regulatory processes were identified as barriers affecting replication.

Ethical and Social Considerations

Data privacy implemented according to GDPR regulations. Training and guidelines in stakeholder involvement provided to promote equity.

Results & Impacts

Outputs

Outputs include identification of constraints, enabling conditions, governance needs, financing needs, restoration processes and innovation pathways that support replication and upscaling.

Outcomes

- Environmental impacts: Supports future restoration efforts by helping regions plan for replication;
- Economic impacts: Clarifies financing needs and readiness gaps relevant for long-term implementation;
- Social impacts: Improves understanding of governance roles and increases community readiness for future restoration activities.

Operational benefits

Provides clarity on barriers, needs and strategic actions, improving planning efficiency and readiness for implementation.

Lessons learned and take aways for the future

- Cross-regional knowledge exchange is valuable.
- Assessing barriers and enables across socio-economic contexts facilitate broader context roadmaps

Scalability

Regional -> Global

Replicability

The roadmap identifies the institutional, financial, technical, and social conditions that enable restoration to scale up and demonstrate how solutions tested in one region can be adapted to others with similar

ecological or governance characteristics. When incorporated into national and regional strategies, they can strengthen planning, improve financing continuity, and guide the development of predictable, investment-ready restoration programs aligned with long-term policy commitments.

Transferability

The strategic actions and processes identified can support planning in other sectors requiring governance alignment, financing structures, and monitoring frameworks.

Post project sustainability

Long-term relevance is supported by directly engaging local authorities in the development of the replication roadmaps. In addition, cross-region recommendations are disseminated directly to higher level policy makers like the EU Commission to inform future policies to achieve the objectives of Mission Ocean and global biodiversity commitments.



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