

THE AREA



- Specific Areas:
 - Seyðisfjörður
 - Eskifjörður
 - Reyðarfjörður
- Regions already monitored for flood risk, landslides, and hydrological conditions
- Areas prone to overflowing rivers and sea level rise
- A rural/coastal area of approximately 23,000 km²

ABOUT NATALIE

NATALIE is an **European Union research project** contributing to the objectives of the **EU mission "Adaptation to Climate Change"**, aiming to empower at least 150 regions and local communities to become climate resilient by 2030.

To achieve our technical, financial, legal and social objectives, we are a consortium of **43 partners** committed for **5 years** to the common goal of accelerating the adoption of **Nature-based Solutions (NBS) across Europe.**

8 CASE STUDIES

18 NBS are being implemented, monitored and their performance assessed in 8 demonstration sites covering 6 different biogeographical regions of Europe. All these sites have different context and are facing different climatic challenges. The potential of replication of these solutions will be studied in 4 "follower sites".



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THE NATALIE PROJECT



NATALIE
 Accelerating and mainstreaming transformative NATURE-based solutions to enhance resiliENCE to climate change for diverse bio-geographical European regions

COASTAL MANAGEMENT WITH NBS

ICELAND



GET IN TOUCH

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INVOLVED PARTNERS





DEALING WITH CLIMATE CHANGE CHALLENGES

1 Sea Level Rise

Rising seas threaten coastal infrastructure, habitats, and communities.



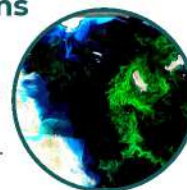
2 Landslides

More frequent landslides endanger lives and infrastructure.



3 Algae Blooms

Harmful blooms disrupt ecosystems and pose health and economic risks.



4 River Flooding

Overflowing rivers cause property damage, erosion and impact agriculture.



5 Increasing Production of Fish Manure (Sludge) from Aquaculture

Increased organic material can further stimulate algae blooms and disrupt ecosystems



OBJECTIVE

Integrate **traditional knowledge** in coastal protection and aquaculture.

HOW WILL THIS WORK?



- * **Design NBS** for coastal protection,
- * **Design NBS** for aquaculture,
- * Implement a **digital platform** for visualisation of hazards,
- * Design a **toolbox** for overcoming barriers,
- * **Engage stakeholders** and **communities.**

Embracing Nature-Based Solutions for coastal protection paves the way for innovative and sustainable possibilities for our future.

Anna Berg Samúelsdóttir, MATIS

What are Nature-based Solutions (NBS)?

Ever wondered how nature can help us tackle climate change?

NBS are “**Solutions inspired and supported by nature**, which are cost-effective, simultaneously provide **environmental, social and economic benefits** and help build resilience.”
European Commission, 2015.

What is traditional knowledge ?

Traditional knowledge refers to the wisdom, insights and experiences developed in communities that have relied on marine resources for generations while also surviving in the harsh Icelandic conditions.

How can we learn from traditional knowledge to better protect our environment?

By integrating traditional practices, like water conservation techniques and land stewardship, we can develop holistic solutions that respect nature's balance. This knowledge can inspire NBS that enhance biodiversity, mitigate climate impacts, and foster community-led environmental stewardship.

