

THE AREA

Lelantine Plain



- **Lilas river** originates from Dirfys and Xerovouni mountains and flows in South Evoikos Gulf through Lelantine Plain.
- **River basin area:** 273 km²
- **River length:** 34 km
- **Tributaries length:** > 170 km
- **Intermittent** flow

INVOLVED PARTNERS



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".

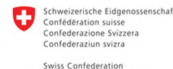


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NATALIE

Accelerating and mainstreaming transformative NATURE-bAsed solutions to enhance resiLIence to climate change for diverse bio-geographical European regions

FLOOD AND WILDFIRE RISK MITIGATION

GREECE

Lelantine Plain





CLIMATE CHANGE CHALLENGES

1

High flood risk due to extensive interventions in the riverbed and high urbanization in the river's estuary.



2

Long history of forest fires related to the specific characteristics of the area such as topography, vegetation type, human activities, and climate.



OBJECTIVES

- * **Develop flood and wildfire risk mitigation measures** using nature-based solutions (NBS),
- * **Promote NBS** in the wider catchment area



HOW WILL THIS WORK?



- * **Construct 50 small stone check dams** on a seasonal tributary of Lilas River,
- * **Design a forest fire prevention plan** at the municipality level,
- * **Implement prescribed burning** to reduce wildfire risk,
- * **Mature conditions for the design and implementation of NBS** in Lelantine Plain after the end of the project, such as: river and wetland restoration, creation of riparian forests, and river connection with floodplains.

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 are Small Stone Check Dams ?

These traditional structures have been used for centuries in the Mediterranean for water management.



Through NATALIE project, small stone check dams will be constructed along an ephemeral tributary of Lilas river to reduce flood risk, enrich the aquifer and increase biodiversity.