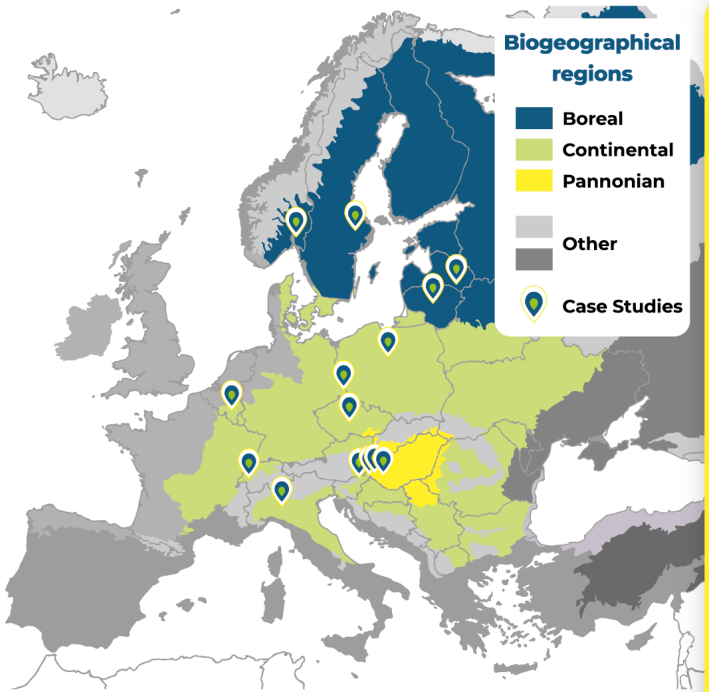
PROJECT INFO



21 partners from 15 countries across Europe

14 partners will contribute with their own case study

7 million Euro budget

5 years duration 2020-2025

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Helmholtz Centre for Environmental Research – UFZ

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OPTAIN

Optimal Strategies to Retain Water and Nutrients

PARTNERS

NIBIO Norsk institutt for bioøkonomi

Global Water Partnership Central and Eastern Europe

Università degli Studi di Milano

Institute for Soil Sciences and Agricultural Chemistry Centre for Agricultural Research

NIVA Norwegian Institute for Water Research

Research Institute for Soil and Water Conservation

UFZ Helmholtz Centre for Environmental Research

OiEau International Office for Water

Klaipėdos universitetas

Lietuvos žemės ūkio konsultavimo tarnyba

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
Agroscope

Universität Bern CDE Centre for Development and Environment

Kmetijsko gozdarska zbornica Slovenije
Kmetijsko gozdarski zavod Maribor

Univerza v Ljubljani

Ghent University

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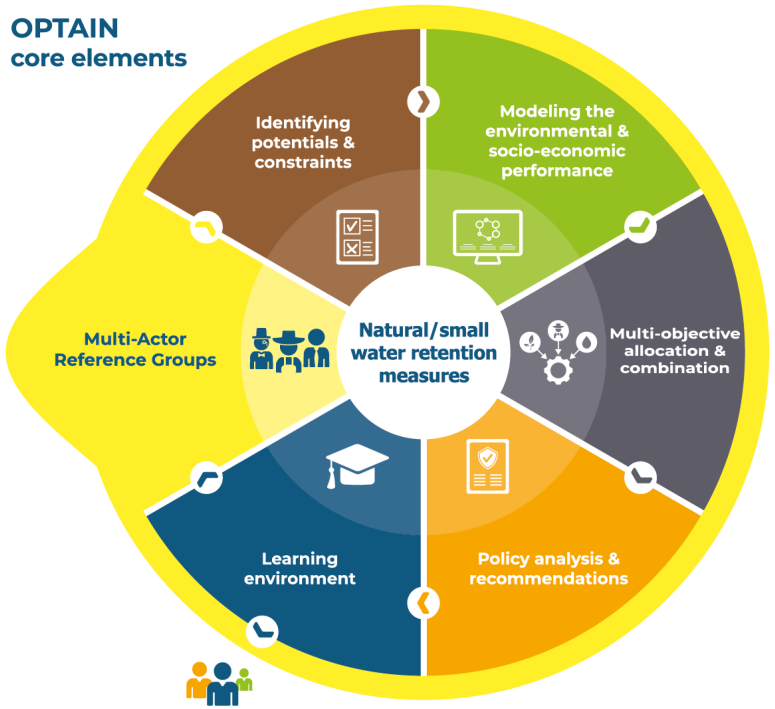
ABOUT OPTAIN

OPTAIN (EU-funded research and innovation project) proposes a social and scientific journey towards the increasing and better understanding of the multiple benefits of Natural/Small Water Retention Measures (NSWRM).

NSWRM in OPTAIN are small and multi-functional measures for the retention/management of water and nutrients in agriculture and hydro-morphology, small technical measures related to drainage infrastructures and measures positively affecting water use efficiency of the agricultural production.

OPTAIN will identify efficient NSWRM to better adapt to extreme events (floods, droughts) and reduce conflicts between agricultural water uses and other human and environmental demands in small catchments across Continental, Pannonian, and Boreal biogeographical regions of Europe in close cooperation with local actors.

Project outcomes will be elaborated from the current state of knowledge, the experience of stakeholders from 14 case studies, and innovative scientific modelling and optimization approaches.



Optimal Strategies to Retain Water and Nutrients in small agricultural catchments

EXPECTED OUTCOMES

Identify local conflicts:
Drawing on the expertise of a diverse range of actors, OPTAIN will identify current and future climate-change-related conflicts in water and nutrient management for a representative set of 14 case studies.

Catalogue of measures:
OPTAIN will identify and document past, present, and novel NSWRMs in agriculture and water management, and develop tailored indicators for their assessment.

Environmental and economic models:
Using a large variety of datasets, OPTAIN will set-up models capable to evaluate the performance of NSWRM at the farm and catchment level.

Implementation schemes for NSWRM:
OPTAIN will explore most effective implementation, multi-objective allocation, and combination of NSWRM. It will illustrate trade-offs and synergies among multiple objectives and identify optimal compromise solutions from actors' perspective.

Policy analysis and recommendations:
OPTAIN will formulate general and case study specific recommendations for actors, policy makers, and incentives to encourage a more efficient NSWRM implementation.

Interactive Learning environment:
Platform (co-created together with stakeholders) to present OPTAIN improvements for supporting actors in their choices to implement Natural/Small Water Retention Measures.