



This project is co-funded by the European Union
and the Republic of Türkiye



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ORGANIZATION: BioSense Insitute

WORKSHOP NAME: International Brokerage Event on Horizon Europe MSCA Staff Exchanges

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MSCA SE 2026 Call





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Description of the Organisation



- R&D institute for Information Technology in Biosystems
- Main focus – IT in Agriculture and Food
- “The Missing Link”
- 150 employees
- Data and material scientists, biologists, agronomists
- University of Novi Sad member

CIT - Centre for Information Technologies

applies advanced AI techniques to model the processes happening within biosystems, optimize the decision-making and extract valuable knowledge from long streams of heterogeneous data: satellites, drones, sensors

CST – Centre for Sensing Technologies and Robotiques

development of sensors that can detect and measure different parameters and processes in biosystems, and as such be applied agri-food sector, environmental monitoring, and medical applications.

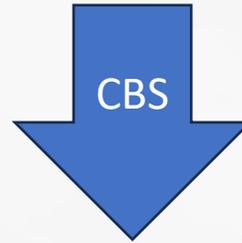
CBS – Center for biosystems

is devoted to understanding the diversity, variability and functioning of biosystems. Fundamental research of biosystems provide the basis for the protection of ecosystems, sustainable management of agricultural activities and the establishment of a system of long-term environmental monitoring

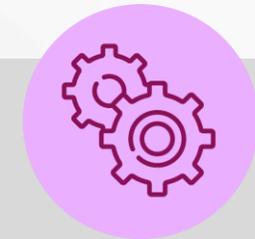
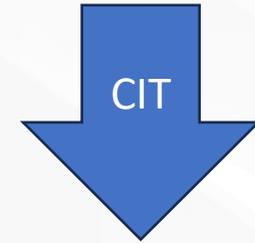


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Your Teams' Expertise



Nature Habitat mapping,
Multi-scale field surveys
Ecosystem services assessment
Soil Health (including eDNA and
Carbon Sequestration
Biodiversity loss
Climate extremes and impact



EO data processing
AI modelling,
Data and feature engineering,
Data pipeline,
Platform development and
Implementation
Stakeholder engagement



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Your Research Fields

1 Understand

Ecosystem dynamics AND regional climate scenarios



2 Value

Economic costs of non-action (future action)



3 Design

Adaptation pathways AND Nature-based Solutions strategies based on “What if?” scenarios



4 Implement

Living Labs AND policy engagement



ENVIRO-REACH

Advancing Climate Resilience through Intersectoral Exchange on **ENVIRO**nmental and Socio-Economic **REACH**

Consortium expertise:



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**BioSense Institute relevant
On-going Projects**



NOSTRADAMUS

**Data Cube and Copernicus data for Food Security and
European Independence**



SONATA

Monitoring of nature infrastructure – Skill acquisition for Nature-based Solutions



**ONE HEALTH APPROACHES TO SUPPORT AGROECOLOGICAL
TRANSFORMATION OF PERI-URBAN FARMING**

**UPSCALING INNOVATIVE GREEN
URBAN LOGISTICS SOLUTIONS
THROUGH MULTI-ACTOR
COLLABORATION AND PI-INSPIRED
LAST MILE DELIVERIES**



**maximising the CO-benefits
of agricultural Digitalisation
through conducive digital
ECoSystems**



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Project Idea

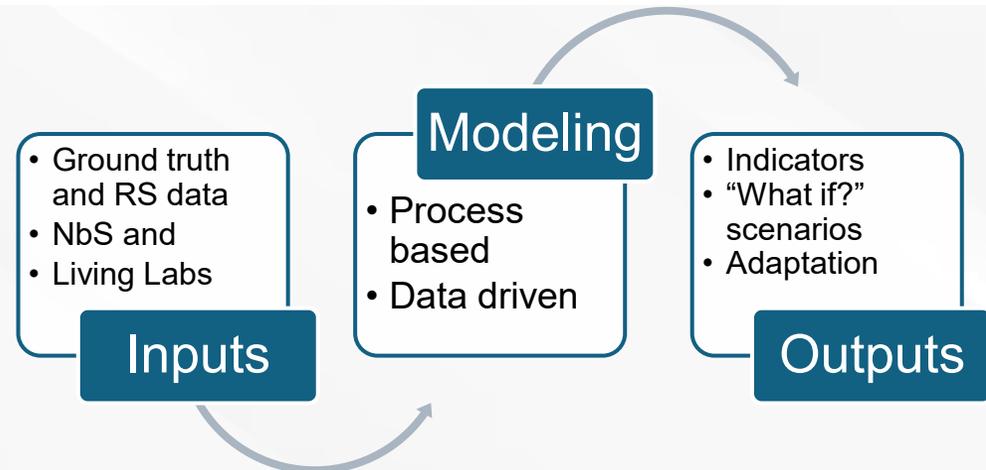
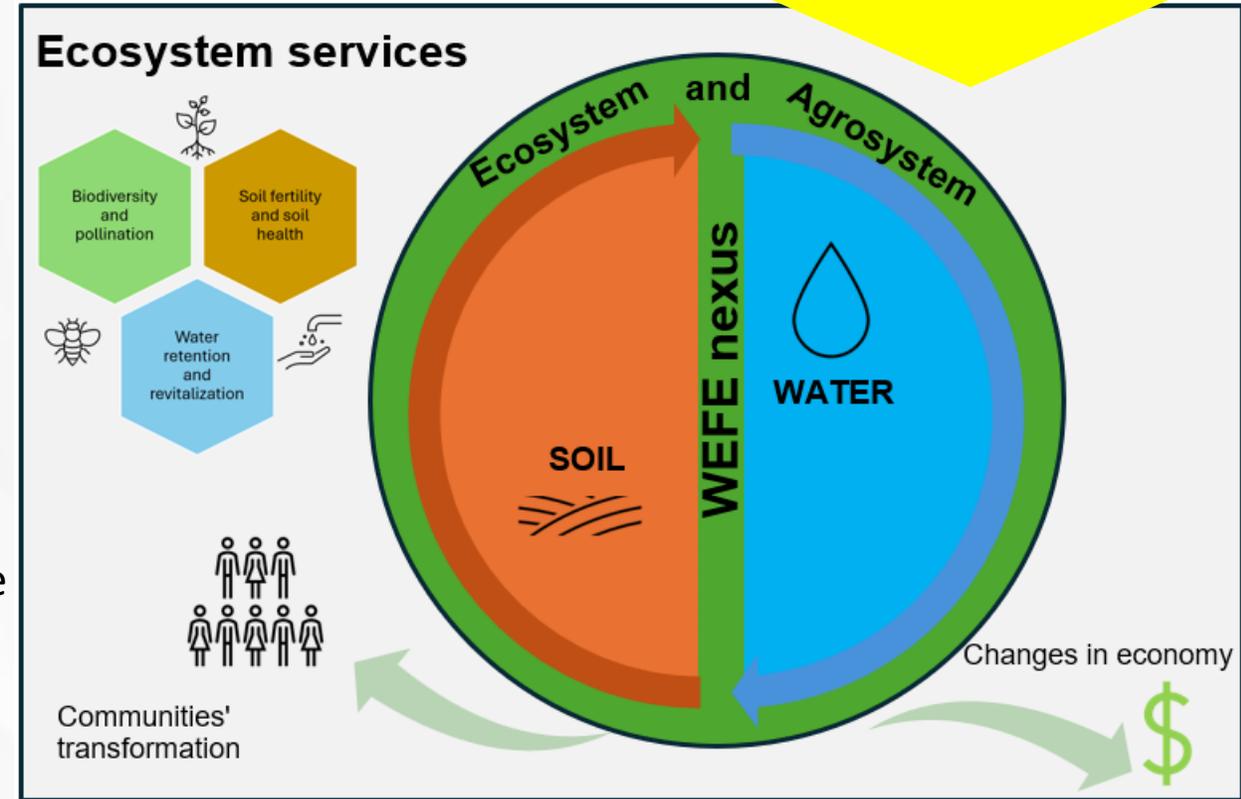
Project Idea:

By facilitating **intersectoral knowledge transfer** Strengthen the **deployment** of Nature-based Solutions (NbS) by co-designing adaptive management scenarios for resilient landscapes.

Deadline Dates: 15 April

Objectives:

1. High resolution ecosystem services (indicators) assessment, including shifts over last 5-10 years
2. Building “What if?” scenarios and understanding trade-offs
3. Potential spatial optimization (based on 1)
4. Showcase





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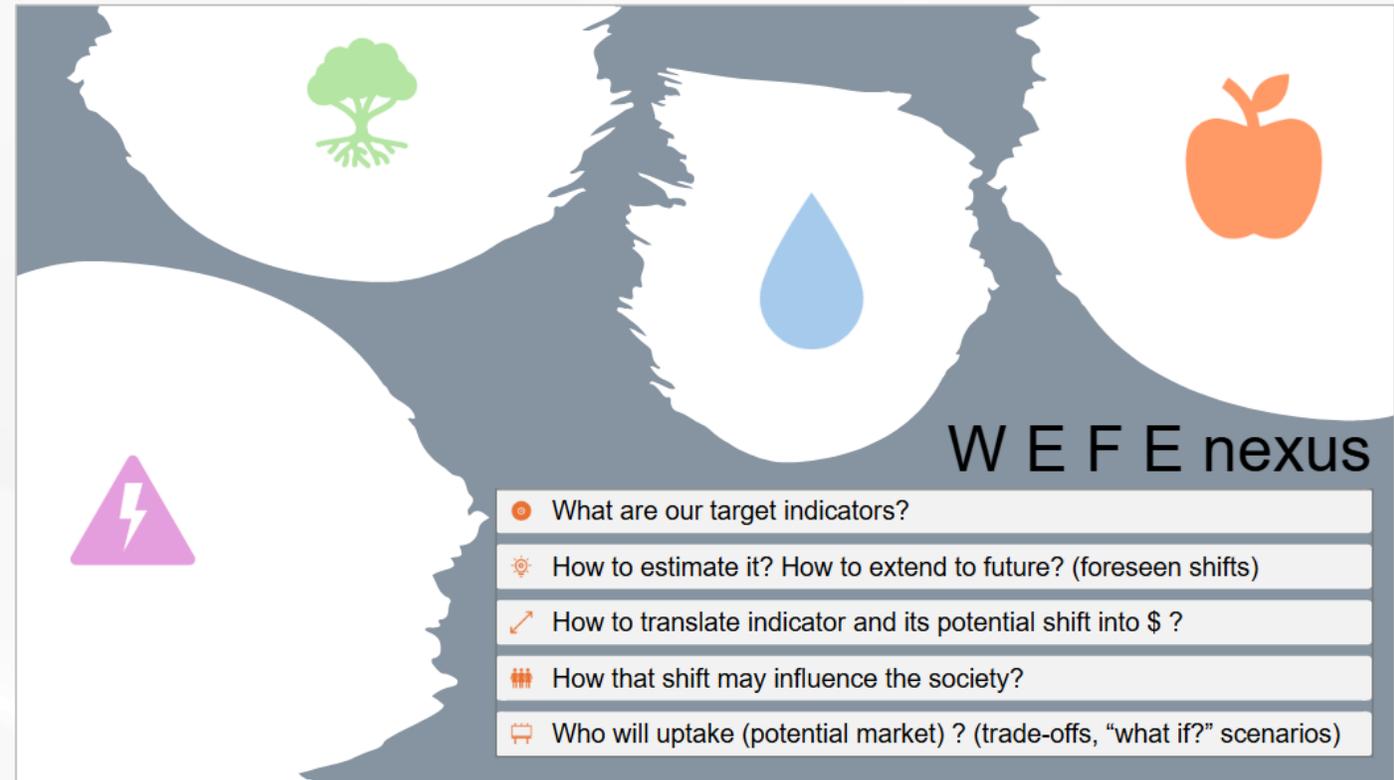
Project Idea

Expected results:

1. Fine scale map toolkit on ecosystem indicators for 3-4 Use Cases
2. What „if” Scenario Engine AND
3. NbS Investment Framework (models that assess costs-benefits & LCA)

Outcome: Service for setting standards to achieve climate resilient landscape .

Impact: Increased readiness for implementation of NbS due to economic valuation and increased availability of green open access information.





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Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
01	BioSense	Academic	Serbia	Coordinator
02	CNR	Academic	Italy	Participant
03	NINA	Academic	Norway	Participant
04	CROPT	Industry	Serbia	Participant
05	Granf Valley State Uni	Academic	US	Participant



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Consortium – required partners

No	Expertise	Type	Country	Role in the project
01	LCA assessment ?	Industry	any	Participant
02	Consulting and NbS implementation	Industry	any	Participant
03	Agriculture/Use Cases	Industry	any	Participant
04	Social Science and scientific coordination	Academic/ Industry	any	Participant



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