

eNaBLS

eNaBLS-ACT

eNaBLS' Greek Living Lab "eNaBLS-ACT"

Coordinated by iBO Institute for Bio-Economy and Agri-Technology, CERTH CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

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Learning Through NBS: Operational Water Circularity in Action

eNaBLS

The Rationale

Addressing the gap in practical Nature-Based Solutions (NBS) education requires moving from abstract concepts to tangible, operational systems.

The **Greek Living Lab** (LL) created an experiential learning platform centered on sustainable urban water management. By constructing a permanent rainwater harvesting and reuse system connected to a demonstration garden at CERTH, the LL enables students, researchers, TVET learners, and professionals to directly observe and interact with water circularity, vegetation, and climate resilience.

The Core Question

How do we shift from learning about NBS to learning through NBS using physical, operational infrastructure?

Key Pillars & Goals

- **Tangible Demonstration:** Integrating rainwater harvesting, IoT-enabled management, green infrastructure, and planted demonstration areas on CERTH premises.
- **Experiential Competency Building:** Operationalising GreenComp competencies (Promoting Nature, Critical Thinking, Futures Literacy, Collective Action) through real-world exercises.
- **Multi-Context Engagement:** Connecting higher education, VET professionals, research institutes, municipal actors, and engineering networks.

Scan for LL updates

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Bringing eNaBlS-ACT to Life

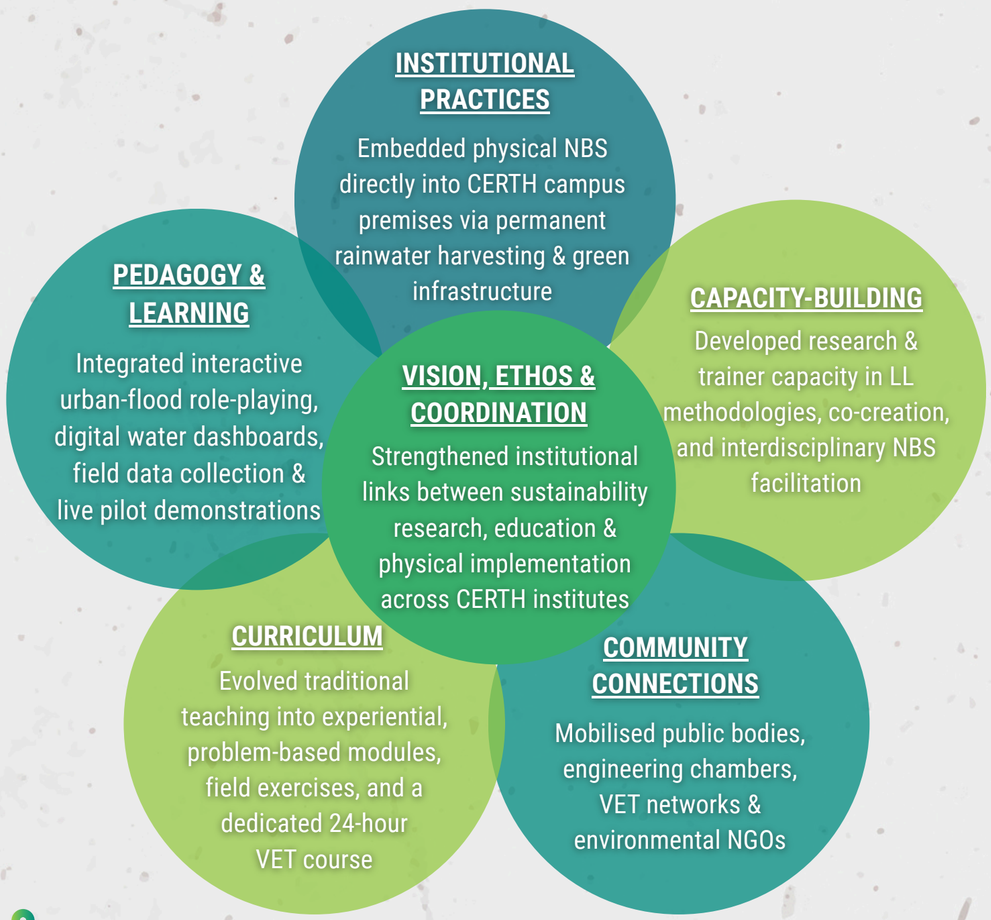
The 3-Phase Implementation Journey

STEP 01 — **Co-Design & Network:** Convened key regional stakeholders (NECCA, AUTH, TCG/SCM, EKBY) to define urban water challenges and participatory needs.

STEP 02 — **Experiment & Train:** Delivered co-creation workshops, field observation exercises, role-playing flood resilience simulations, and a 6-week VET programme.

STEP 03 — **Physical Implementation:** Built a permanent rainwater pilot and demonstration garden at CERTH, transforming the LL into a lasting educational infrastructure.

The Whole Institution Approach (WIA)



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"From Concept to Living Infrastructure": Moving from theoretical consultation to a physical, functioning rainwater system established a permanent site where water circularity, climate resilience, and education continuously intersect.

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National Ecosystem & Strategic Scaling

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Core Partner Network



Cross-Sector Outreach

- **24-Hour VET Professional Programme:** Trained cross-disciplinary learners (engineers, lawyers, architects) in futures literacy and urban resilience.
- **Urban Narratives & Public Demonstrations:** Delivered interactive field walks and urban-flood role-playing simulations engaging higher education, VET, and municipal actors.

Physical Campus Demonstrator

A permanent, operational rainwater harvesting and garden infrastructure at CERTH, serving as an ongoing site for research, visits and training beyond the project lifespan.

Long-Term Legacy

Cross-Project Synergies

Active links with European VET and green-skills networks to sustain professional training and policy outreach.

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Visit the webpage of the Greek Living Lab

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