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Palacký University Olomouc

Project overvies

Name, affiliation

PROJECT NAME	Twinning to Boost the Scientific and innovation capacity of the University i Tiranes to Develop Sustainable Nanosensors for Water Pollution Detection
GRANT AGREEMENT ID	101059266
PROJECT DURATION	1 September 2022 – 31 August 2025
PROJECT BUDGET	€ 1 499 124

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Project coordinator

Universiteti i Tiranes (UT), established in 1957, is the oldest public university in Albania. UT's Faculty of Natural Sciences is the main centre in Albania for training specialists and conducting research in Chemistry, Physics, Biology, Biotechnology, Mathematics and Computer Sciences. UT's Department of Chemistry teaches courses on nanomaterials and electrochemical (bio)sensors and conducts research on nanomaterials and the development of sensors and biosensors based on surface modifications and composite materials.

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Twinning partners

Fundació Institut Català de Nanociència i Nanotecnologia

Spain

ICN2 is a world-renowned centre for nanoscience and nanotechnology research, focusing on the newly discovered physical and chemical properties that arise from the fascinating behaviour of matter at the nanoscale. ICN2's Nanobioelectronics and Biosensors Group is focused on the discovery and technological development of cutting-edge nanotechnology towards diagnostics, food and safety and environmental applications.

Univerzita Palackého v Olomouci

Czech Republic

UPO's Czech Advanced Technology and Research Institute (CATRIN) carries out interdisciplinary research into emerging nanotechnologies, biotechnologies, and biomedicine at the highest international level. CATRIN has expertise and facilities to conduct research into the synthesis and consecutive functionalization of carbon-based nanomaterials including works on graphene and its derivatives, quantum dots, nanocomposites of carbon-based nanomaterial and magnetic nanoparticles, etc.

Intelligentsia Consultants Sarl

Luxembourg

Intelligentsia Consultants Sàrl (INT) is highly experienced in providing training for proposal writing and project management for EU funded R&D projects. Notably, the company has worked on nearly fifty (50) FP7 and H2020 projects with many involving research institutes in Associated Countries concerning the development of centres of excellence, integration into ERA, and technology transfer, especially in the fields of physics, nanomaterials and sensors

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Aim

Boost the scientific excellence and innovation capacity in sustainable nanosensors for water pollution detection of Universiteti i Tiranes (UT) and its high-quality Twinning partners. To achieve this aim, SUSNANO will implement a research and innovation strategy over 3 years, where the partners will research and demonstrate sustainable nanosensors

Objectives

1. Conduct exploratory research on sustainable nanosensors to detect water pollution in Albania
2. Transfer knowledge between experienced researchers of UT and the Twinning partners
3. Enhance career prospects of early-stage researchers of UT and the Twinning partners
4. Improve UT's management and administrative capacity for European R&D programmes
5. Raise the research profile of UT and the Twinning partners

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TARGETING WATER POLLUTION IN ALBANIA

Albania is a country rich in freshwater resources, like deltas, lagoons and wetlands, which are used in urban areas, agriculture, aquaculture, recreation, hydropower, and industry.

However, Albania's water quality has deteriorated significantly. Water is polluted due to high concentrations of N and P and antibiotic contamination due to poor control and overconsumption of antibiotic medications in the healthcare and veterinary sectors.

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SUSNANO project will DEVELOP SUSTAINABLE NANOSENSORS and DEMONSTRATE them in Albania's rivers and lakes. It will help to:

- Document all sources of water contamination and types of organic and inorganic contaminants
- Quantify amounts and fluxes of contaminants from sources to surface and ground waters

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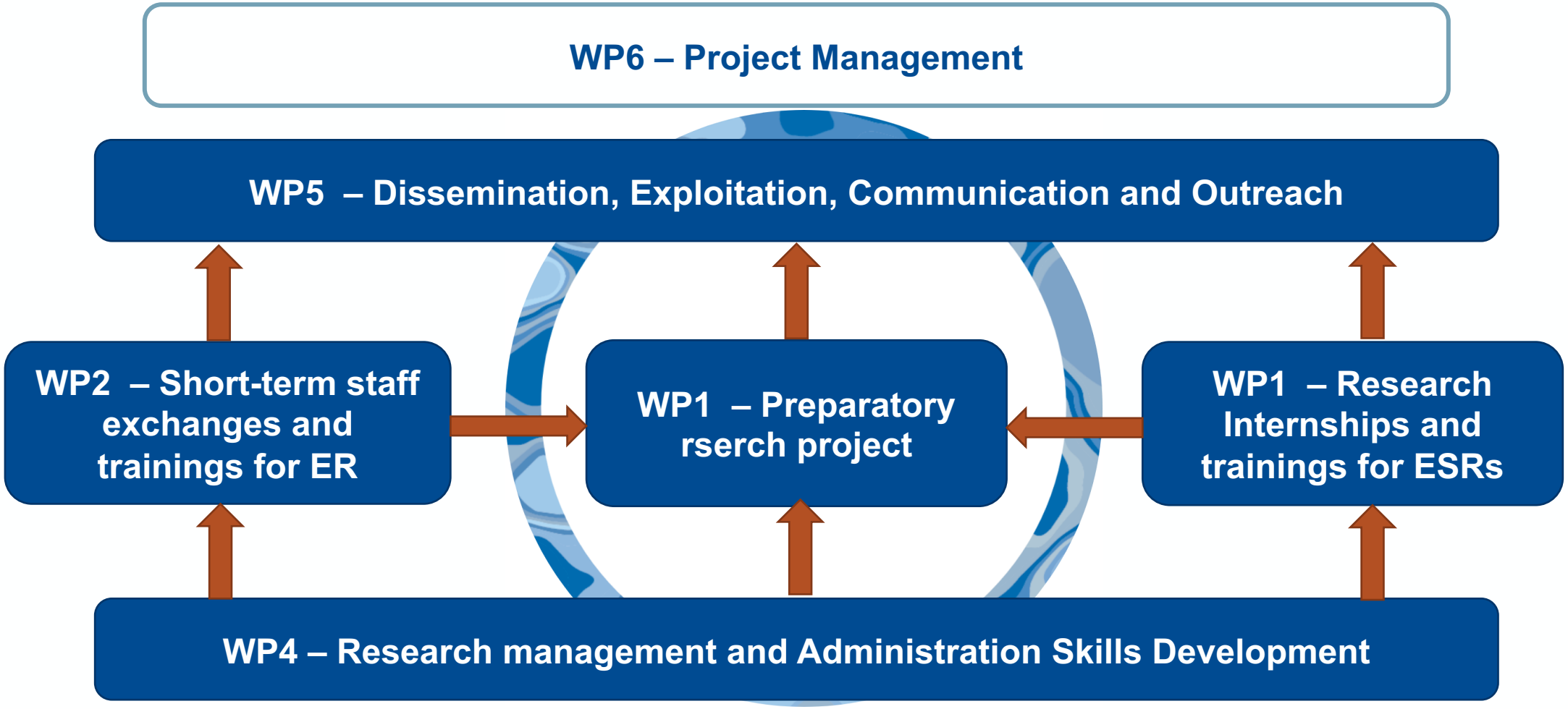
Project Structure



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SUSNANO

CONTACTS

Connect with us
www.susnano.eu

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Palacký University Olomouc