



UNIVERSITETI I TIRANES, ALBANIA

University 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.



FUNDACIÓ INSTITUT CATALÀ DE NANOCIÈNCIA I NANOTECNOLOGIA, SPAIN

A world-renowned centre for nanoscience and nanotechnology research

UNIVERZITA PALACKÉHO V OLOMOUCI, CZECH REPUBLIC



Palacký University Olomouc

UPO's CATRIN center carries out advanced research in nanotechnologies, biotechnologies, and biomedicine.



INTELLIGENTISIA CONSULTANTS SARL, LUXEMBOURG

experienced in providing training for proposal writing and project management for EU funded R&D projects



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TWINNING TO BOOST THE SCIENTIFIC AND INNOVATION CAPACITY OF THE UNIVERSITY I TIRANES TO DEVELOP SUSTAINABLE NANOSENSORS FOR WATER POLLUTION DETECTION

SUSNANO

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.

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

PROJECT 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 partner

ABOUT

SUSNANO is a Horizon Europe Twinning project with the overall aim to boost the scientific excellence and innovation capacity in sustainable nanosensors for water pollution detection of Universiteti i Tiranës (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.



SUSNANO