

The project **REXDAN** creates opportunities for a unique experimental base on inland waters in Europe and facilitates Romania's participation in top multidisciplinary research projects which combine the fundamental and applied research. These activities are carried out in collaboration not only with representatives of the academia, but also with other state and private structures.

The project will cover a wide geographical area (2000 km on the navigable sector of the Danube with extensive areas from the river basin) and research areas related to water, sediments, soil, air, biodiversity, bathymetry, hydromorphology, etc., thus approaching multiple domains: chemistry, biology, physics, environmental science, ecology, bathymetry, topography, atmospheric chemistry, sustainable development, etc



The total value of the project:
91.972.096,30 lei

The non-reimbursable eligible value from the
European Regional Development Fund:
78.098.088,74 lei

The non-reimbursable eligible value from the
national budget: **13.782.015,56 lei**

Priority axis: 1. Research, technological development and innovation (RTDI) to support economic competitiveness and business development;

Investment priority: IP 1a: Strengthening research and innovation (R&I) and infrastructure and building capabilities in order to develop R&I excellence, as well as promoting centers of expertise, especially those of European interest;

Specific objective: SO1.1. Increasing scientific capacity in the fields of smart specialization and health;

Action: 1.1.1 Large R&I infrastructures;

Area of intervention - 058 Research and innovation infrastructures (public)

An Integrated System for the Complex Environmental Research and Monitoring in the Danube River Area, REXDAN
Project co-financed by the European Regional Development Fund through the Competitiveness Operational Programme 2014-2020

Dunarea de Jos University of Galati
March 2021

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An Integrated System for the Complex Environmental Research and Monitoring in the Danube River Area, REXDAN

Contract no. 309/10.07.2020
SMIS Code 2014+: 127065

Beneficiary:
"Dunarea de Jos" University of Galati

Project duration:
10.07.2020 - 31.12.2023

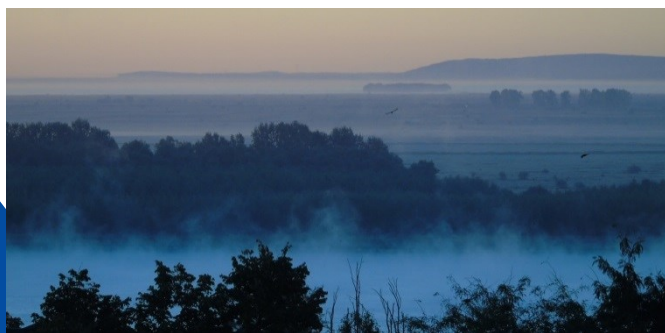
www.rexdan.ugal.ro



GENERAL OBJECTIVES

GO1: Increasing the research capacity of "Dunarea de Jos" University of Galați in the field of intelligent specialization: Energy, environment, climate change in the Danube river basin.

GO2.: Intensifying the Romanian contribution to the progress of multidisciplinary knowledge on research areas of complex interest. REXDAN approaches both fundamental areas such as: ecology, chemistry, physics, biology, environmental science, etc., and areas such as: aquatic ecosystems including water, soil, sediments, flora, fauna, environment, climate change, the impact of anthropogenic activity, sustainable development, etc.



EXPECTED RESULTS

Creating a research infrastructure of excellence in the field of intelligent specialization *Energy, environment, climate change*, which consists mainly of a research ship; a fixed research center; a self-laboratory; 18 laboratories, equipped with state-of-the-art equipment.

ACTIVITIES

A1 Acquisition of mobile assets. Acquisition of a research ship for research activities carried out along the entire navigable sector of River Danube. Acquisition of a self-laboratory.

A2 Acquisition of a building with the afferent land in order to organize modern laboratories.

A3 Acquisition of tangible assets (mobile systems, installations, research equipment) for the research ship according to its capabilities and tangible assets (installations, research equipment) for the fixed research center within the REXDAN project.

A4 Acquisition of intangible assets required for implementing the project, developing the project activities and processing the project results.

A5 Project management.

A6 Project implementation.

A7 Dissemination and publicity of the project and of the activities implemented.

A8 Project audit.

Beneficiary:

"Dunarea de Jos" University of Galati,
based in Galati,

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SPECIFIC OBJECTIVES

SO1: Increasing the scientific capacity of "Dunarea de Jos" University of Galati in the field of intelligent specialization *Energy, environment, climate change*, its institutional visibility at European and international levels and the applicability of those research results with direct effect on the economic and social development by exploiting the opportunities created within large research infrastructures. "Dunarea de Jos" University of Galati has contributed, to a great extent, in the research related to River Danube and to its associated ecosystems, especially on issues concerning the environment and climate change.

SO2: Combining scientific objectives with objectives aimed at developing the society.

SO3: Supporting research excellence, a basic condition for the future involvement in major international projects and strategies, by including the distributed research infrastructures, DANUBIUS and ACTRIS, in the *European Strategy Forum on Research Infrastructures* (ESFRI).

SO4: Creating the appropriate conditions for enlarging and multiplying European partnerships, through the active involvement of the G13 countries, including Romania.

SO5: Establishing partnerships with the countries bordering the Danube based on the possibility offered by the **REXDAN** mobile infrastructure to carry out interdisciplinary research along 2000 km of the Danube navigable sector, which highlights the internationalization capacity of **REXDAN**.