



# NEWSLETTER

Edition #1 November 2023

## IOT GREEN TRANSFORMATION FOR ACADEMIC SOCIETY AND BUSINESS ORIENTED ECOSYSTEM IN WESTERN BALKANS



101083018 (IOT-ECO)ERASMUS-LS, ERASMUS-EDU-2022-CBHE-STRAND-2

PROJECT DURATION:  
1.12.2022-30.12.2025

Overall budget:780,951.00 Eu



MEET OUR PARTNERS AND ASSOCIATED PARTNERS



Universiteti Politeknik i Tiranës



ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ  
UNIVERSITY OF PATRAS



Autoriteti Portual Durrës  
DURRES PORT AUTHORITY



CREA-KO SHPK

#IOT-ECO.EU

# IOT-ECO IS AN ERASMUS + CAPACITY BUILDING IN HIGHER EDUCATION AND WILL SUPPORT WB HEI TO:



- Assist academic staff improving their knowledge and expertise in the field of green ecosystem – energy efficiency, air pollution, Industrial IoT.
- Introduce IoT to society and raise awareness of its potential for green transformation.
- Establish IoT-ECO hub in the WB HEIs network to facilitate creative projects, design, and technology transfer with a focus on resilient solutions.
- Develop a virtual prototype of Green transformation ecosystem model of the Port of Durres and make it available at the IoT-ECO hub.
- Integrate and harmonize study programs with the needs of the industry in relation to IoT and green transformation. Develop new and updated courses and integrate them in the syllabi for providing the skills and competences that future engineers need.

The main target beneficiary with mobilities courses and trainings are the students in the WB HEIs. Larger impact on society will be obtained through networking and dissemination activities with focus to younger students, people with disabilities, business representatives and governmental institutions

## PROJECT AIM

This project aims to address these specific needs by proposing opportunities for intelligent solutions based on Internet of Things (IoT)/Internet of Everything (IoE) technology, their implementation for green transformation and development of institutional and academic capacities towards national and regional cooperation between Higher Education Institutions (HEIs) in the WBs. The feasibility study of a human capacity building and infrastructure initiative is one of the pillars of this project. In addition to the academic dimension, this project aims to achieve the business and social dimensions. This joint project uses IoT to upgrade technology in higher education to address the needs identified in each partner country. Since we are in Industrial 4.0, preparing and informing IoT-related individuals will help them access these futuristic technologies.

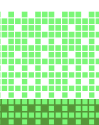
Each WBs HEIs vision is to build capacity, create an innovative ecosystem that, firstly, will allow the institution to grow and secondly, provide the community and society with IoT/IoE solutions. According to various studies IoT/IoE can help developing countries grow and achieve sustainable economics and green transformation. Albania's main economic sectors include agriculture, tourism, and energy. In all these sectors the IoT has been seen as a tool for innovation and change towards sustainable growth especially in achieving the Sustainable Development Goals of Agenda 2030 (Bitri, Aida; Marinova, Galia; and Hajrizi, Edmond, "The Internet of Things". to assist in the implementation of SDGs: A case of Albania and Kosovo, opportunities and challenges "(2019). UBT International Conference. 331.). Six WB HEIs from Albania, Kosovo and Montenegro want through this proposal to build the necessary capacity and invest in knowledge and practical application in the field of IoT and green transformation. Trainings and knowledge exchange with the 3 EU HEIs from Bulgaria, Greece and Austria will be a founding step towards a green future in WB HEIs and region. Three associate partners – an innovation fund, a port and an ICT company are here to model the academic society and business oriented innovative ecosystem. IoT-ECO hub will be developed since IoT hubs are utilized for energy efficiency (power management), air pollution (e-health). Furthermore, WB HEIs will create a network with each other to collaborate on common projects for green transformation.

## CONSORTIUM

P1 - TECHNICAL UNIVERSITY OF SOFIA (COORDINATOR)
P2 - ALEKSANDER MOISIU UNIVERSITY (BENEFICIARY)
P3 - POLYTECHNIC UNIVERSITY OF TIRANA (BENEFICIARY)
P4 - UNIVERSITY OF PRISHTINA (BENEFICIARY)
P5 - UNIVERSITY FOR BUSINESS AND TECHNOLOGY (BENEFICIARY)
P6 - UNIVERSITY OF MONTENEGRO (BENEFICIARY)
P7 - MEDITERRAN UNIVERSITY PODGORICA (BENEFICIARY)
P8 - UNIVERSITY OF PATRAS (BENEFICIARY)
P9 - TECHNICAL UNIVERSITY OF GRAZ (BENEFICIARY)
P10 - FOND ZA INOVACIJE CRNE GORE DOO (ASSOCIATED)
P11 - CREA-KO (ASSOCIATED)
P12 - DURRES PORT AUTHORITY (ASSOCIATED)

## ASSOCIATED PARTNERS

- **INNOVATION FUND OF MONTENEGRO**
- **DURRES PORT AUTHORITY**
- **CREA-KO SHPK**



# PROJECT ACTIVITIES:

## ➤➤➤ 1.KICK-OFF MEETING



The meeting covered some crucial issues for the progress and management of the project in the best possible way. Specifically:

- The coordinator of the project Assoc.Prof.Dr. Galia Marinova presented the project in details focusing on the main points.
- The creation of the Project Board and Quality Board.
- Preparation of Project Management Plan

From 25 to 28 January 2023 the Kick-off meeting of the IoT-ECO project was organized in Technical University of Sofia, Sofia, Bulgaria

## ➤➤➤ 2.WORKSHOP ON “NEEDS ANALYSIS IN TERMS OF SKILLS AND COMPETENCIES IN IOT OF ENGINEERS NEEDED FOR THE GREEN TRANSFORMATION IN WB ECONOMY.”MEETING



Dates: May 24th - 26th, 2023  
Venue: Polytechnic University of Tirana, “Silvano Pedrollo” Room, Tirana, Albania

Our valued Associate Partner, Innovation Fund of Montenegro is strongly supporting project activities in Montenegro with dissemination and promotion with their vision on developing various support instruments to effectively implement the Government's innovation policy, which is based on the concept of smart specialization, and intended for development of innovative entrepreneurship as a generator of sustainable economic development. We build a stimulating environment for faster growth and development of small and medium innovative entrepreneurship and increase competitiveness of the Montenegrin economy with quality grant programs, created in accordance with the identified needs.



## UAMD LAB



## DURRES PORT

Meeting with Associate Partner, Durres Port Authority on May 26, 2023, for IoT Project Exploration and Collaboration Opportunities. During this visit, we aimed to gain valuable insights into the local context and potential challenges and opportunities for the successful implementation of our IoT-ECO project. Durres Port Authority plays a crucial role in this initiative, and we believe that their expertise and cooperation will significantly contribute to the project's overall success. A special thank for the presentation provided in one of the terminals from the Environment Unit and Mr.Endrit Pollo from DPA .



## OUR NEXT ACTIVITY: WP 3. EXPERIENCE AND SHARING KNOW-HOW WITH EU PARTNERS ON THE ESTABLISHMENT OF THE IOT-ECO HUB



For the meeting in Graz is foreseen to be discussed the plans for the second year.

How to:

- to develop and launch the new courses on IoT for Green transformation
- to develop the IoT-ECO hub
- to develop 3 virtual prototypes for studying IoT scenarios from Western Balkan partners
- Experience and share know-how with EU partners on the establishment of the IoT - ECO hub.
- Besides TU GRAZ will take part in advising, knowledge sharing, teaching, training.
- Further more will be meetings of the Project Managers Board and Quality Board .

Dates: November 15-18, 2023  
Venue: TU Graz, Austria



### CONTACT US



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<https://iot-eco.eu>



SCAN ME