

AI&Sustainability in VET Education
6th May 2025

A CAMPAIGN OF DISSEMINATION WAS CARRIED OUT IN DARICA.

AI-SAVES: Artificial Intelligence and Sustainability for Environmental Solutions in Vocational Training
Automatic Vision
06.05.2025

The dissemination activity of the Erasmus+ KA220 vocational project titled “AI&Sustainability in Vet Education” (AISVE), project coordinated by Kaunas University of Technology in Lithuania and partnered with Darıca District National Education Directorate, was held on May 6, 2025, by Darıca District National Education Directorate. 50 teachers from 20 schools participated in the activity.

The event, which began with the opening speech by our Project Coordinator Pınar Sancaktutan, continued with our English Teacher Zülfiye Okumuş, who was involved in the implementation phase of the project, providing participants with information about the stages involved in the project's work activities.

In her presentation, she provided information on improving the competencies of vocational school teachers in artificial intelligence and sustainability, equipping students with digital skills, expanding the use of digital content in education, and raising environmentally conscious individuals.

The Head of the Information Technology Department, Muhammet Köprü, and IT teachers Kazım Burak Sipahi and Damla Yılmaz, provided participants with information about the technical details of the project. Practical demonstrations were given on how the AISVE kits, which will be distributed to schools throughout the project, can be used in activities with students.

Furthermore, based on training received in Turkey and Greece, information was shared regarding the use of camera sensors in Raspberry Pi kits, LED usage, working with OLED screens, and theoretical and practical training content such as GitHub and Google Colab.









COORDINATOR

***KAUNAS UNIVERSITY OF TECHNOLOGY**

PARTNERS

- DDE B Athens Polytechnic School TXORIERRI S.COOP Darica District National Education Directorate Skopje City Mihajlo Pupin Secondary education electrical engineering in North Macedonia EUROPEAN VOCATIONAL EDUCATION ASSOCIATION Sucossor Criativos, Lda PORTO POLYTECHNIC INSTITUTE

Funded by the European Union

This publication is funded by the European Union. However, the views and opinions expressed are solely those of the author(s) and do not necessarily reflect the views of the European Union or the National Agency. The European Union and the National Agency cannot be held responsible for these views.

ARTIFICIAL INTELLIGENCE AND SUSTAINABILITY IN VOCATIONAL EDUCATION



Our project's Kick-Off Meeting was successfully held in Spain. Following that, the practical...
The first phase of the training was conducted in Darıca district of Kocaeli province in Turkey. Within the scope of this training, both theoretical information and practical exercises were completed using AIVET Raspberry Pi kits.

The second practical training session of the project was held in Athens, the capital of Greece. Kristina Sutiene and Liepa Bikulciene from Kauno Technologios Universitestas gave a theoretical presentation on deep learning models to the participants. Following this, classification and object modeling were practiced under the leadership of Fatima Pais.

Practical training sessions were organized on the topics of identification, segmentation, and transfer learning. Our next international project meeting will be in Lithuania. Project mobilities are progressing... The process will continue with Macedonia and Belgium.



Information Technology Teacher Damla Yılmaz provided participants with theoretical and practical information on topics such as turning LED lights on and off, servo motor control, light detection with LDR sensors, distance measurement with ultrasonic sensors, light-controlled window automation, working with OLED screens, controlling Neopixel LED strips, distance-sensitive light warning systems, and camera connections within the scope of applied training conducted in Darıca. The second phase of the training continued within the scope of the mobility program in Greece. In this process, participants were given information about Deep Learning Models, Basic Concepts of Computer Vision, GitHub and Google Colab usage, object detection with YOLOv8, and studies on Raspberry Pi and ESP32 integration. Thanks to these trainings, the teachers' application skills in the field of digital technologies were reinforced, and they were enabled to reach a level where they could actively participate in artificial intelligence and computer vision-based projects. Muhammet Köprü and Kazım Burak Sipahi demonstrated the functions of educational kits such as LEDs, motors, and sensors with Raspberry Pi 5 within the scope of the project. Participants received practical information about hardware installation and code integration.

Potential studies on its use in vocational training were discussed.

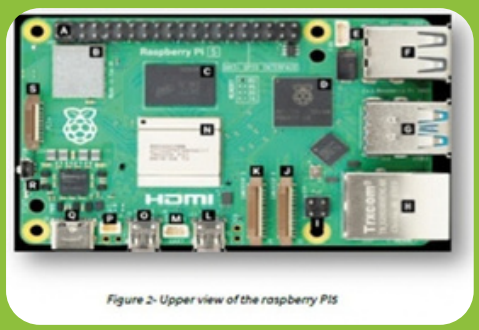
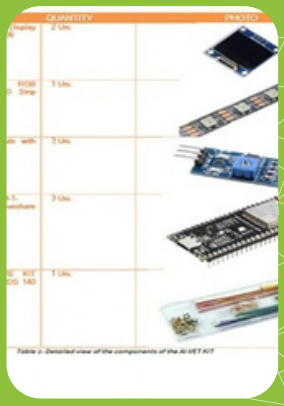


Figure 2- Upper view of the raspberry PI5

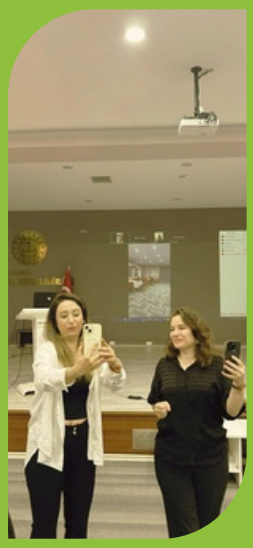




Funded by the European Union

This publication is funded by the European Union. However, the views and opinions expressed are solely those of the author(s) and do not necessarily reflect the views of the European Union or the National Agency. The European Union and the National Agency cannot be held responsible for these views.





Liepa Bickulciene, project coordinator from Kaunas University of Technology in Lithuania, and Angelka Andreski, our project partner from North Macedonia, participated in our event online.
Our project coordinator gave a brief overview of the project and expressed their pleasure at participating in the event.





The activity concluded with a commemorative photo taken with our teammates; a joyful experience of collaboration and learning.

It was reflected on their faces.





Funded by the European Union

This publication is funded by the European Union. However, the views and opinions expressed are solely those of the author(s) and do not necessarily reflect the views of the European Union or the National Agency. The European Union and the National Agency cannot be held responsible for these views.