



AgriTech Solutions: Innovating VET for Sustainable Agriculture
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2024-1-RS01-KA210-VET-000244168

REPORT

From the realization of an activity

3.2 Development of student projects

Background

Within the framework of the AgriTech Solutions project: Innovative VET for Sustainable Agriculture with project number 2024-1-RS01-KA210-VET-000244168, funded by the Erasmus + program of the European Union, activity 3 2. Development of student projects is being implemented.

The main objective of this project is to advance vocational education and training (VET) in sustainable agriculture through the introduction of project-based learning (PBL), focusing on sustainable and technologically advanced agricultural practices, inclusiveness and accessibility for all students.

This project strives to combine theoretical knowledge with practical applications, thus preparing students with the necessary skills to deal with modern agricultural challenges.

Purpose of the activity

To apply PBL methodologies learned in the training by developing 10 different student-led projects focused on innovative solutions in agriculture.

Activities

Project start

Each of the 10 trained teachers guides their students in identifying real-world agricultural challenges and developing potential solutions, using their newly acquired PBL skills.

Project development

Students, with continued support from their teachers, work on their projects, applying concepts of sustainable agriculture, precision agriculture, and technology in crop and soil management.

Mentoring and support

Throughout the project development phase, teachers act as mentors, providing guidance and feedback to ensure that projects are impactful, feasible, and innovative.



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Activity results

Ten innovative agricultural projects

A direct outcome is the development of 10 student-led projects, each addressing specific challenges in the agricultural sector. These projects incorporate sustainable practices, precision agriculture, and digital technologies, demonstrating students' ability to apply their learning to create solutions to real-world problems.

world.

Increased student engagement and skill development

Students showed increased engagement in their education, driven by the opportunity to work on meaningful real-world projects. Problem-solving skills, teamwork, project management, and technical competencies specific to agriculture saw significant improvement.

Educator Governance in PBL

The 10 educators who led the student projects solidified their expertise in project-based learning methodologies. Their successful mentoring in this activity serves as a practical application of their PBL training, advancing their pedagogical skills and confidence in facilitating student-led learning.

the students.

Transnational cooperation and networking

The culminating event in Serbia, attended by stakeholders from both Serbia and North Macedonia, fostered transnational collaboration and networking. This gathering facilitated the exchange of ideas, best practices, and potential partnerships between educators, industry professionals, and policymakers.

Showcasing innovations to stakeholders

The presentation of student projects to a wider audience of stakeholders highlighted the innovative potential in the agricultural sector. This visibility can attract interest and support from industry and educational institutions.

Developed projects

Within this activity, 10 **student-led projects were developed**, addressing specific challenges in the agricultural sector.



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The projects cover one or more of the following areas: sustainable agricultural practices, precision agriculture, organic farming, renewable energy sources, and the use of new technology.

The development of the projects took place in the period from early October to early December 2025.

The following projects have been developed:

Serial number	School name	Place of origin	Topic they participated in
1.	Agricultural - Joseph forestry school Panchiy	Surdulica, R Serbia	Use solar panels for heating the greenhouse of agricultural economies - forestry school "Josif panjiy".
2.	Orde Chopela High School	Prilep, Republic of Macedonia	Organic production Protecting the vine from the grape moth
3.	SOD Dimitar Vlahov Strumica, Republic of Macedonia		To help develop the local market for agricultural products in the Strumica region
4.	Agricultural school Šumatovac	Aleksinac, R Serbia	Use of new technologies u agriculture - "Use of hydroponics in horticulture"
5.	Agricultural school Radosh Jovanovic Seljan	Prokuplje, Republic of Serbia	Let's help our school u sell our products in Toplich district
6.	Kocho Racin High School	St. Nicholas, Republic of Macedonia	My garden - my table How to get healthy and safe food in your own backyard?
7.	DSU- regional center for professional education and training "Kiro Burnaz" 8. Secondary school "Sveti Trifun" is home the student	Kumanovo, Republic of Macedonia	Let's talk to the soil – digital mapping of fertility
		Aleksandrovac, Republic of Serbia	Organic production microbial



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			How different substrates affect the growth and development of microbes?
9.	Poljoprivedna – chemical school dr ĵorĵe Radiĵ	Kraljevo, Republic of Serbia	Precision farming Application of advanced technology in order to reduce cost of producing alfalfa and simultaneously obtaining high, reliable and ecologically acceptable the yield
10.	State secondary school school – regional Vocational Education and Training Center "Mosha Pijade"	Tetovo, Republic of Macedonia	How to create renewable energy sources through agricultural production

The report was prepared by

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Elizabeta Angeleska, Katarina Zarkovic



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