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PARTNERS:

Poland

Croatia



Romania



Türkiye



Italy





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Main assumptions of the project:

The THER-MA SAT FARMING project is an international educational and research project aimed at introducing modern technologies – primarily drones equipped with thermal imaging cameras and satellite data – into agricultural practice and vocational education in agricultural schools.

The main idea of the project is to develop the competencies of students and staff in innovative methods of monitoring crop, soil, and environmental conditions. Drones and satellite data enable precise collection of information, which is then analyzed to improve agricultural production efficiency, plant health, and the implementation of sustainable agriculture principles.

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The First International Erasmus+ Meeting at ZSCKR Swaróżyn

A unique event took place at the ZSCKR in Swaróżyn – the First International Erasmus+ Meeting, which brought together partners from Italy, Croatia, Romania and Turkey.

This meeting was a milestone in the development of our school's international cooperation, opening up new perspectives for teachers and students.



The aim of the meeting was to develop an action plan for the Erasmus+ project, divide responsibilities between partners and discuss detailed arrangements for the organisation of future mobilities and project results.

Guests visited our modern laboratories, computer labs, and practical vocational training facilities, learning about our staff's commitment to providing the highest level of vocational education.

The meeting also had a team-building aspect. Participants visited a local shooting range, where they could build team relationships in an informal setting, and then toured Gdańsk's Old Town, learning about Polish history, culture, and architecture.

During several days of deliberations, the partners:

- developed the project schedule and goals,
- established the scope of tasks,
- exchanged experiences regarding modern teaching methods,
- got acquainted with the educational infrastructure of ZSCKR Swaróżyn.



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First International Agricultural Conference at ZSCKR Swaróżyn

On November 14, 2024, the ZSCKR in Swaróżyn became a meeting place for scientists, experts and teachers from Poland and abroad during the First International Agricultural Conference.

The aim of the event was to present innovative technological solutions in agriculture and to exchange experiences between the scientific, educational and industrial communities.



The conference was enriched by a presentation by Marta Gulgowska, international projects coordinator at ZSCKR Swaróżyn, who highlighted the role of cooperation between schools from different countries in building a modern vocational education system. She emphasized that Erasmus+ projects provide a space for young people to develop creativity, innovation, and cultural openness.

Conference participants agreed that such initiatives provide an excellent forum for the exchange of ideas and inspiration for further research and educational activities.

The conference was opened by the school principal, Mr. Piotr Popielarczyk, whose commitment and vision for the development of vocational education inspired the entire event. In his speech, he emphasized that the school not only teaches, but also shapes attitudes of openness to the world, science and modern technologies.

The lecture by Dr. Ercüment Aksoy from Turkey, president of the Spatial Information Society and lecturer at Akdeniz University, aroused great interest.

His presentation focused on the use of satellite data, drones and open information sources in agriculture.

Dr. Aksoy presented concrete examples of how technology can be used in air quality monitoring, field mapping, and crop analysis.



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Meeting in Antalya

As part of the THERMA-SAT Farming project, teams from Poland, Italy, Romania, Croatia and Turkey met in Antalya to jointly develop competences in drone technology, imaging and spatial data analysis.



Participants took part in workshops on:

- drone flight and safety rules,
- the use of drones to monitor crops and the environment,
- data processing in QGIS and Pix4D software,
- applications of thermal imaging in precision agriculture.

Practical field exercises allowed participants to apply their acquired knowledge in real-life conditions, and joint sightseeing in Antalya, Side and the surrounding area facilitated cultural exchange and international integration.



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Mobility in Sardinia

Another THERMA-SAT FARMING meeting took place from March 30 to April 5, 2025, this time in Sardinia.



The trip had not only an educational but also a cultural dimension – the students learned about local traditions, cuisine and history, strengthening relationships with partners from other countries.

During the meeting, the following was agreed upon, among other things:

- preparation of two modules e-learning with tests and videos,
- conducting training for students from A1/A3 drone licenses,
- purchase of DJI Terra software,
- plan for further mobilities in Turkey (September 2025) and Romania (November 2025).

Participants:

- *learned how to program drone flight paths and map areas,*
- *they carried out measurements in mountain areas (Monte Fumai),*
- *analizowali dane w Istituto Tecnico Commerciale “G. P. Chironi”,*
- *discovered the culture of Sardinia by visiting Orgosolo, Nuoro i La Caletta.*

“This trip was a huge lesson for us – not only about technology, but also about cooperation, openness and responsibility,” one of the students reported.



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Second meeting in Antalya

The meeting aimed to summarize the project's progress to date and to plan the next steps in detail. During the meeting, the partners discussed a number of key issues necessary for continued effective cooperation.

Final dates for mobility in Romania and Croatia were set. Significant work was also devoted to the structure of the e-learning platform being developed. The partners analyzed its functionality, content layout, and presentation methods to ensure the tool was as intuitive and accessible as possible for future users.



The entire meeting confirmed that the project is consistently moving toward achieving its goals. Thanks to the commitment of all partners, the shared knowledge exchange, and systematic work, activities are progressing according to plan, and subsequent results are becoming increasingly visible.

During the meeting, the principles of project documentation were also discussed, with an emphasis on consistency, timeliness, and uniform standards across all partner institutions. Another important agenda item was planning the content and layout of the e-book, which is one of the project's main deliverables. The partners exchanged ideas regarding the publication's structure, content, and visual elements, ensuring that the final material is both educationally valuable and attractive to readers.



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An integral part of the meeting was the integration portion, which created a space to strengthen relationships between participants. Joint tours of the area and informal conversations allowed for better understanding, the exchange of experiences, and the creation of an atmosphere conducive to future collaboration.

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Drones of the future in Romania

The international mobility program for the THERMA-SAT FARMING project took place in Romania and provided a unique opportunity to learn about modern technologies used in precision agriculture. The focus of the project was on agricultural drones and satellite data analysis, which are increasingly crucial to the efficiency and sustainability of farms.



During workshops and practical classes, participants learned how to plan UAV flights, operate specialized drones, and interpret aerial and thermal images.

They also learned about the European Space Agency's tools and software enabling crop monitoring, assessment of their condition, optimization of fertilization and plant protection, as well as counting and observing animals in agricultural areas.

The workshops, led by international experts, demonstrated that drones are the future of agriculture – enabling better decision-making, cost reduction, and environmental protection. The Romanian mobility program combined modern technological education with experience exchange and international collaboration, marking an important step in achieving the goals of the THERMA-SAT FARMING project.



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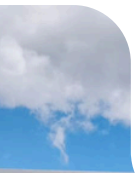
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Mobility in Zagreb – learning by doing

The next mobility activity within our project took place in Zagreb, the capital of Croatia. This time, we focused on first-hand experience with modern agriculture and the technologies used in large-scale production. Participants had the opportunity to visit local farms, where they learned about work organization and modern production methods. Of particular interest was the visit to a winery, where we learned about the stages of wine production – from grape cultivation to processing and storage of the finished product.



Another important element of the program was activities related to the use of drones – participants participated in field exercises and learned about their potential applications in crop monitoring. The practical activities were complemented by a lecture on modern solutions in agriculture, including robotics and automation of production processes.

There was also plenty of time to explore Croatia's cultural side. Participants toured Zagreb, discovering its most important monuments and the city's atmosphere, and also visited the Plitvice Lakes – one of the most beautiful natural sites in Europe.



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The trip to Croatia was a valuable experience that allowed us to combine theoretical knowledge with practice, as well as broaden the professional and cultural horizons of the project participants.