



# ZERO WASTE=A SUSTAINABLE WORLD!

2022-2-EE01-KA220-SCH-000102230

ERASMUS PROJECT

WP4: CONFERENCE



Funded by  
the European Union

# PROJECT PARTNERS

**ESTONIA** -NARVA SOLDINO GÜMNAASİUM

**TÜRKİYE** ÇAĞDAŞ VE YENİLİKÇİ EĞİTİMCİLER DERNEĞİ

**SPAIN**- FUNDACION PATRONATO AVEMARIANO DE

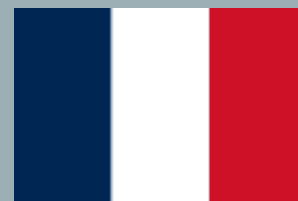
**CZECH REPUBLIC**- VYŠŠÍ ODBORNÁ ŠKOLA ZDRAVOTNICKÁ, STŘEDNÍ ZDRAVOTNICKÁ ŠKOLA A OBCHODNÍ AKADEMIE

**POLAND** STOWARZYSZENIE ANIMATORÓW WSZECHSTRONNEGO ROZWOJU MŁODZIEŻY

**FRANCE** LYCÉE TECHNOLOGIQUE PRIVÉ NAY-BAUDREIX

**HUNGARY** NYÍREGYHÁZI SZC VÁSÁRHELYI PÁL TECHNIKUM

**ITALY** UNIVERSITA DEGLI STUDI DI PALERMO



## PROJECT PRIORITIES

- Environment and fight against climate change
- Inclusion and diversity in all fields of education, training, youth and sport
- Development of key competences

## MAIN ISSUES ADDRESSED IN THE PROJECT

- Creativity, arts and culture
- Environment and climate change
- Green skills



Due to the increase in the amount of waste in the world and the decrease in disposal capacities, some of the solid waste is converted into recycling systems under the name of useful products. In this context, the transformation of recycled materials and biowaste into useful products through collection, storage and recycling has been the main priority of our project.

The project activities are designed to transform waste materials into useful products, use and disseminate organic dyes instead of synthetic dyes. For this purpose, activities on these issues have been carried out at local and transnational events.



## GOALS ACHIEVED IN THE PROJECT

- Environmental and climate awareness has been increased.
- Environmental and climate balance was preserved by transforming waste into useful products instead of garbage.
- A sustainable curriculum was created to transform waste into useful products.
- Awareness was raised about environmental pollution with organic and root dyes obtained from biofuels and a useful tool was developed for the education process.
- The idea that a new product can be created from all kinds of waste was introduced.
- It was ensured that students and all individuals became conscious consumers.
- Excitement was created to create a more livable world.
- A sustainable, clean and green environmental awareness policy has been developed.
- Participants were enabled to use their artistic skills.
- Project activities and outputs were delivered to different audiences.
- Action examples created by our project to improve the environmental and climate benefits were integrated into the training curriculum.
- Environmental literacy skills improved.



# CONTRIBUTION OF THE PROJECT ON PARTICIPANT INSTITUTIONS

All partners participating in the project gained first-class knowledge and awareness in the field of climate, environmental protection and waste management. With the project, environmental and climate issues, which are theoretically included in the curricula of our school partners, have become a part of life, liberated from virtual thinking. The consumption of organic paint in art classes in our schools has been increased. Each institution had the competence to develop creative and innovative project ideas specifically for the environment and climate change.

Our partner institutions have acquired an institutional identity that raises awareness about the environment and climate change. Our schools have an institutional culture that integrates different practices in environmental education into different disciplines of education.



## CONTRIBUTION OF THE PROJECT TO EUROPEAN VALUE ADDED

Waste management skills from different countries were gathered under one roof and transformed into creative products. In Europe, creative products in recycling have become widespread. It will enable the development of creative and sustainable European policies for the environment and climate change.



## OUR PROJECT OUTCOMES

- WP Sustainable curriculum content
- WP Activities to transform solid waste into art products
- WP International academic presentation (conference/Charette)
- WP Production of organic paint from biowaste)





## Work package n°2 - Sustainable curriculum content

### GOALS ACHIEVED

Awareness of a sustainable and livable world was brought into the learning process specifically in the curriculum.

It was emphasized that the theme of "sustainable and livable world" should be important for both education and life

Products were developed that pedagogically transfer the concept of a sustainable and clean world to future generations.

Our students, who are the guarantee of our future, are equipped with the awareness of "a sustainable and clean world«

With our project, different waste management skills of our schools have become more efficient and creative.



## RESULTS OF WP

New curriculum content has been added to the learning process.

Pedagogically, the topic "sustainable and livable world" is included in the curriculum

A new field of study has been added to the relevant scientific literature

Curriculum content will be included as a new subject area in biology and geography courses, especially in art education. Thus, students experienced environmental and climate awareness while they were alive

Opportunity has been created to increase collective awareness about environment and climate sensitivity in relevant courses

The curriculum content integrates the theme of "a livable and sustainable world" accepted by humanity in a comprehensive and inclusive structure throughout the education system.



Thus, our students, who are the guarantee of our future, have contributed to the European added value in the long term in the utilization of waste.

Current curriculum content has contributed to new solutions to be developed against threats that may occur in the future

The content of the curriculum has served as a source for academic studies with its interdisciplinary feature. Thus, it will contribute to the development of the environmental and climate policy planned in the future.



## Work package n°3 - Activities to transform solid waste into art products

### GOALS ACHIEVED

A synergy was created with international activities against environmental pollution and climate change, which are global problems

The sustainability of waste management strategies developed by each institution in a pluralistic structure was ensured

The transformation of waste into useful products was experienced

Simple but highly effective environmentally friendly organic dyes were used for use in art and other courses of every institution

Students/participants were taught the behavior of transforming waste into useful products

Diversity and richness have been added to classical art production materials

Turned waste management into corporate culture in every institution.



## RESULTS OF WP

Experiences in waste management were reinforced in a multicultural environment

Universal integrity was achieved by each institution transferring its own waste management skills abroad

Participants' foreign language development and collaboration skills gained value in pioneering European added value

By adding an extraordinary dimension to artistic practices, a universally applicable and sustainable quality standard has been achieved

Attention was drawn to environmental pollution and climate change in a pluralistic structure.

A livable world model was developed by integrating different disciplines such as art, environment and climate.



A culture of respect for nature was developed among all participants

Through creative art practices, participants improved their psychomotor and useful product development skills in various waste

Participants improved their skills in working and producing in a multicultural structure, with a culture of democracy, at the center of a common problem

By raising awareness about waste recycling policies, local and central governments were enabled to develop new strategies

All these activities lead to innovative new projects, setting an example for the public.



## Work package n°3 ACTIVITIES

- \*TPM: The international project planning and motivation meeting will take place in ESTONIA
- \*LTT: useful product development from packaging waste, HUNGARY
- \*LTT: useful product development from waste glass, POLAND
- \*TPM: 3. International academic waste management map ITALY
- \*Seminar entitled "Waste recycling in global development" SPAIN
- \*5. Sustainable environment and climate curriculum CZECH REPUBLIC
- \*International Meeting on Evaluation, Dissemination and Sustainability FRANCE



\*TPM: The international project planning and motivation meeting will take place in ESTONIA

Meeting the Participants

Formation of Team Dynamics

Determining Project Goals and Expectations

Clarifying Goals

Management of Expectations

Project Planning and Determining the Schedule

Creating a Business Plan

Calendar and Time Management

Communication and Collaboration Strategies

Determining Communication Channels

Collaboration Methods







## LTT: useful product development from packaging waste, HUNGARY

In this event, the themes of environmental sustainability, economic benefit, education and awareness, especially waste management, were discussed.

### GAINS ACHIEVED

By transforming packaging waste into useful products, its amount was reduced and environmental pollution was minimized.

Innovative methods have been developed in recycling.

Training programs on recycling and sustainability were organized for students and teachers.

By reaching large audiences, awareness was raised about the environmental impacts of packaging waste and the importance of recycling.

New technologies and methods for the reuse of waste were examined on site.

There was cooperation with the mayor's office regarding the project.





## LTT: useful product development from waste glass, POLAND

Beyond providing students with awareness of environmental awareness and sustainability, this event also contributed to their educational, social and economic development. Young generations who took an active role in this event have taken important steps for a more livable world by adopting environmentally friendly and sustainable living habits.

Participants' creative design skills were improved

Waste management skills improved

Recycling culture has been internalized

Economic added value was achieved specifically for the environment and climate change

Sustainable environmental awareness has been developed





## TPM: 3. International academic waste management map ITALY

This workshop focused on waste management and combating climate change within the scope of the project. Goals achieved in the workshop:

Best practices and innovative solutions in waste management were shared.

Information and technologies regarding the transformation and recovery of waste were disseminated.

Participants were encouraged to increase environmental awareness and promote sustainable living habits.

Strategies to combat climate change were discussed and its importance was internalized.

This workshop made significant contributions to the issues of waste management and combating climate change, and created a solid foundation for future projects by increasing the knowledge and skills of the participants.





# Seminar entitled "Waste recycling in global development" SPAIN





## 5. Sustainable environment and climate curriculum CZECH REPUBLIC

Educators, academicians and curriculum developers from different countries attended the event. Participants came from different disciplines (sciences, social sciences, environmental sciences) and provided a rich sharing of knowledge and experience.

By participants:

Scientific basis of climate change,

The importance of environmental awareness in education,

Curriculum design for sustainability education,

Interdisciplinary approaches and integrated education models,

Innovative teaching methods and digital tools,

Increasing student participation in environmental education,

Assessment methods and measuring student performance,

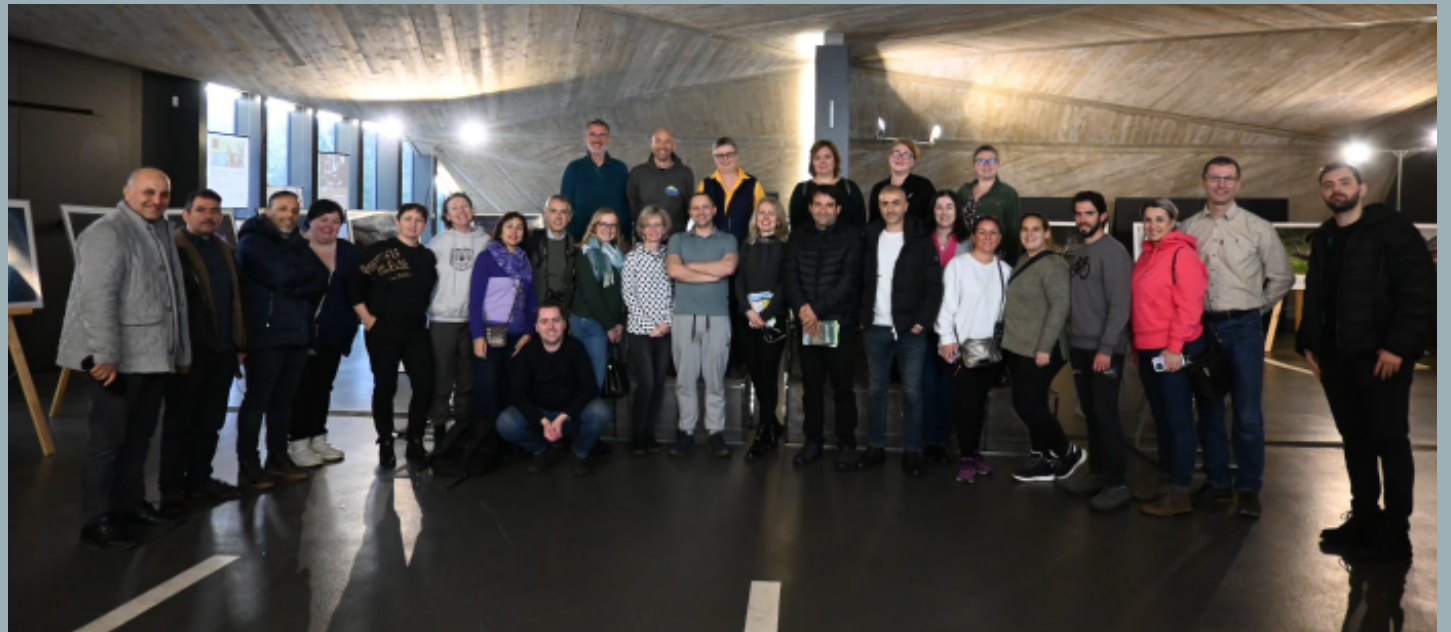
Feedback sessions and curriculum improvement suggestions,

Planning for future projects and collaborations,

International networking and partnership opportunities,

Sufficient gains were made in these subjects.





## International Meeting on Evaluation, Dissemination and Sustainability FRANCE

In this event, the achievements of our project aiming at environmental sustainability were discussed and dissemination strategies were determined.

Within the scope of the achievements, plans were developed to integrate sustainability principles into the training curriculum and corporate policies.

A communication network to be developed with indirect stakeholders was planned within the scope of dissemination activities.

Actions to transform transnational project achievements into local policy and make them sustainable were discussed.

A consensus was reached on more qualified and sustainable projects in the future.



## SUMMARY OF THE PROJECT'S ACHIEVEMENTS

In today's world, environmental problems and climate change are among the most urgent problems awaiting solutions at national and international levels. The rapid continuation of industrialization, population growth and urbanization causes the depletion of natural resources and increased environmental pollution. This situation also complicates efforts to achieve sustainable development goals. Waste management plays an important role in ensuring environmental sustainability. In particular, recycling and reuse of some wastes both saves energy and contributes to the protection of natural resources.



In this context, this project supported by the European Union has added great value to education and research activities focused on environment and climate. Our project has succeeded at the desired level in increasing young people's environmental awareness, encouraging sustainable lifestyles and developing innovative solutions to environmental problems. Additionally, through international collaboration and knowledge sharing, it enabled participants to gain awareness of environmentally friendly practices and apply this knowledge in their own communities.



Our project includes a number of activities focused on developing useful products from waste. The main purpose of the project is to provide participants with both theoretical and practical knowledge in the process of recycling waste into new and useful products. In this process, students' environmental sustainability, innovative thinking and creative problem-solving skills are highlighted. In addition, the awareness level of young people participating in the project on waste management was increased and the existing information was disseminated.

