

5 Aralık 2024 Çevre, İklim Değişikliği ve Yeşil Gündem Temalı Proje Sonuçlarının Yaygınlaştırılması ve Kullanılması (DEOR) Toplantısı Katılımcı Projeler

Bu kitapçıkta, 5 Aralık 2024 tarihinde Erasmus+ kapsamında proje hibesi almış kurumlar ile proje çıktılarının ilgili olduğu düşünülen kurum ve kuruluşların temsilcilerinin online olarak bir araya geldiği Erasmus+ Proje Sonuçlarının Paylaşılması ve Yaygınlaştırılması Toplantısı'nda (DEOR) sunumları yapılan projelere yer verilmektedir.

Key Action: Partnerships for cooperation and exchanges of practices
Action Type: Cooperation partnerships in vocational education and training

Project Title

Sürdürülebilir Yaşam Sürdürülebilir Mesleki Eğitim

Project Coordinator

Organisation HACETTEPE UNIVERSITESI
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Project Information

Identifier 2022-1-TR01-KA220-VET-000089679
Start Date Dec 31, 2022
End Date Dec 30, 2024
EC Contribution 250,000 EUR
Partners General Directorate of EGO (TR) , Eu&Pro centrum vzdělávání a praxe, s.r.o. (CZ) , ACADEMIA, izobrazevanje in druge storitve d.o.o. (SI) , GUVERCINLIK SEHIT HASAN GULHAN MESLEKI VE TEKNIK ANADOLU LISESI (TR) , Liceul Tehnologic de Transporturi Auto Targoviste (RO)
Topics Creating new, innovative or joint curricula or courses ; Environment and climate change

Project Summary

Objectives

The aim of the project is to improve the qualifications of the students for electric bicycles in vocational education, to bring the educational content closer to the development of electric vehicles and to train the intermediate staff needed in this field. For this purpose, it is desired to produce materials that vocational education teachers can use about electric bicycles, to increase the level of cooperation of vocational education institutions and to contribute to the green transition.

Activities

A training module covering all processes of electric bicycles, a guide that vocational education teachers can use in the field of electric bicycles, and student/teacher course contents will be created. An e-Learning platform will be produced, where electric bicycles are included as video lessons and detailed parts/equipment presentations will be made. Various target groups will be reached through dissemination activities.

Impact

Electric bicycle curriculum deficiencies and the need for intermediate staff will be eliminated, educational materials and resources will be produced in the field of electric bicycles, trainer/teacher qualifications and equipment will be increased. The cooperation network of institutions will be expanded, and important awareness will be provided about the priorities in the project. Educational content in the field of electric bicycles will be digitalized and new studies will begin.

Link to project card: [Show project card](#)

Key Action: Cooperation for innovation and the exchange of good practices
Action Type: Strategic Partnerships for school education

Project Title

"Smart Teens, One Ready Mission."

Project Coordinator

Organisation Halit Ozpirinc Anadolu lisesi
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Project Information

Identifier 2020-1-TR01-KA201-093199
Start Date Dec 31, 2020
End Date Dec 30, 2023
EC Contribution 169,230 EUR
Partners Móðurmál - samtök um tvítyngi (IS) , Karl-von-Closen-Gymnasium Eggenfelden (DE) , INSPECTORATUL SCOLAR JUDETEAN BRAILA (RO) , Escola Básica 1,2,3/PE Bartolomeu Perestrelo (PT) , Elpis Association (SE)
Topics Energy and resources ; Environment and climate change ; Natural sciences

Project Summary

Background

We, humans, not only disrupted the balance of nature, but also increased this destruction over time. Although it does not seem possible to restore it to its previous state. We can keep it like this. We should never forget that nature is alive, accept its superiority, and enjoy its magnificence without harming it.

One of the missions of our project is to shape responsible citizenship behaviors with individual/cultural/artistic approaches to permanent global/ecological issues. In order to create a cleaner, livable and sustainable world for our future, the priority values and ecological awareness that young people will carry from today to the future must be at the forefront. Even if you look at it from another dimension; The ecological problem is not just a problem of destruction of nature! With unplanned industrialization and unhealthy urbanization, the call of nature has never been heeded! Everyone needs to do something on this path, especially youth! Because they are the future of the whole world. With our project activities, we tried to overcome the global climate phenomenon and the recent destruction of nature and the resulting problems together by making small gestures for the environment in the fight against climate change and the indispensable interaction between humans and the environment.

Objectives

The implementation and sustainability of the project will be enriched primarily with the support of schools, National Education Directorates, universities, local administrations, environmental organizations and non-governmental organizations. Priority values (Biodiversity, Global Warming, Energy Saving, Climate change, Forests) with "Perception Scale Eco life Analysis", "Judgments Regarding the Green-Blue Motion Image", "Judgments Regarding Industrial Relations in the Green Focus Movement", Rivers, seas, endemic life, etc), positive perceptions will be created with special attention to the perception of neglected things. If the deformation of natural life will continue in the next century, the quantity and quality dimensions of many living things can be exhausted and related to global warming, compilation of the specific location of the regional areas of the partners and their work in the subject, for educational institutions regarding the needs/the solution of the problems according to the needs analysis survey. "Short film festival", "Earth Hour" events will be held on the creation of a general case plan, preparation of the Ecological support, Habitat map the adventure of nature's struggle against us.

Project products; There will be project reports, workshops, "A dose of nature" handbook, school networks, "ECO2 manual", "Eco cartoon network", Eco-intros, e-journal, photo gallery, short film show. All partners are adequately equipped to collaborate on project, data, evidence, ideas, media products and planning during, after the project, exchanges and negotiations. The methodology used, creative activities, designs may be slightly different. At the end of the project, teens will develop themselves in cooperation with different institutions, gaining responsibility, creating ecological sustainability, standing against city life for ecological life, exploring "green behavior" by expanding solutions, and engaging in positive struggles. They will learn extensively to respect people and cultures, to be inspired by environmentalist and activist organizations, to expect major changes with little individual contributions without the harm of nature with the participation of conscious people and to be a sensitive citizen to nature. As much as people polluting and consuming the environment; They will realize that there are also thoughtful people who work hard to protect the environment

Implementation

1-Research groups on ecological problems in their countries will be formed in all partners during the same period.

- 2: A survey will be conducted on "How different is the daily, economic and cultural life supported by natural life?"
- 3: A story/painting competition will be held with the theme "He who protects nature protects life". A short film work will be prepared.
- 4: Technological/artistic studies will be organized for the students of each school/institution.
- 5: A project corner and photo gallery will be created with pictures on the theme "Smart youth-green action" to create the project atmosphere in schools.
- 6: The Youtube Video Channel of the project will be opened
- 7: 25 people in the project countries will be asked 10 questions about the "green movement in the country" and photographs of the people will be taken.
- 8: Web designs/3D Animations will be created for green industry applications.
- 9: "Reduce the Ecological Footprint" study will be implemented.
- 10: Compost box, vertical vegetable garden, "Aromatic Seed Buckets" of an original plant will be prepared.
- 11: "Sustainable Life and Discovery Club" will be established and recycling work will be carried out from waste.
- A12: Orienteering activity will be held
- 13: Film Festival will be held.
- 14: Food Chain, Environmentally Friendly Sprayer Experiment will be conducted.
- 15: Earth Hour event will be held.
- 16: "A Dose of Nature" instructor's manual, "EC02 Guide," "Eco cartoon Network", "Eco-intro" will be created.
- 17: "Habitat Map" will be prepared.

Achievements

- *"Codes of Goodness" Instructor's Handbook was prepared.
- *A school network was created at the high school level for refugee students including E-mails into the system.
- *Facebook social media group was created. It is constantly updated in accordance with the accessible on-line application.
- *The Youtube Channel of the project was opened.
- *The QR codes of the activities were prepared.
- *Analyses and Surveys were applied;
 - Perception Scale Analysis; -Compatibility Analysis; -Global Migration Analysis; -Refugee Youth Attitude Scale;
 - Refugee Support Map; -Refugee Survey in Our Perceptions;
- *Ourboox E-book was prepared from migration stories.
- *Articles, flow statistics and personal comments were recorded digitally.
- *Letters describing their feelings were prepared for refugee students.
- *Developed 100-question surveys and databases in partnership languages.
- *The news about the project was published in the local press.
- *Padlet on "Refugee and Immigration" was prepared for perceptions towards integration.
- *Immigration Map was prepared on the Padlet titled "Codes of Goodness".
- *Brochures have been prepared to be published on the website.
- *A curriculum on "Integration Formations in Education" was designed

Link to project card: [Show project card](#)

* Results are available for this project. You can click on the link above, and go to "Results" section to view them

Key Action: Cooperation for innovation and the exchange of good practices
Action Type: Strategic Partnerships for vocational education and training

Project Title

Innovative and Smart Maintenance in Solar Energy Systems

Good practice example



Project Coordinator

Organisation Sincan İlçe Milli Eğitim Müdürlüğü
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Ankara , Ankara , TR
Contact Serkan SAVAŞ

Project Information

Identifier	2020-1-TR01-KA202-093257
Start Date	Dec 31, 2020
End Date	Dec 30, 2022
EC Contribution	259,294.6 EUR
Partners	Oryx Data Incubator EURL (FR) , NORTH WEST REGIONAL COLLEGE (UK) , İMPEKTRA BİLİŞİM YAZILIM SAN VE TİC. A.Ş. (TR) , HACETTEPE UNIVERSİTESİ (TR) , ASO 1. Organize Sanayi Bölgesi (TR) , ÖZEL ANKARA SANAYİ ODASI (ASO) TEKNİK KOLEJİ MESLEKİ VE TEKNİK ANADOLU LİSESİ (TR) , Yenikent Ahmet Çiçek Mesleki ve Teknik Anadolu Lisesi (TR) , NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA (EL)
Topics	Research and innovation ; Energy and resources ; Cooperation between educational institutions and business

Project Summary

Background

Many countries in the world increase their investments in Solar Energy Systems (SES) and also train qualified personnel for the sustainability of this energy. Along with its growth potential, the need for maintenance and repair of these systems and the need for technical personnel also increases. Predictive maintenance is vital for these systems. Thus, the system can be healthy for a long time by predicting possible system errors and prevent them before they occurred. The uninterrupted operation of SES and continuous energy production are very important both by the enterprises and the users. Predictive maintenance applications have become possible thanks to Artificial Intelligence algorithms and machine learning applications developing today. The simultaneous transfer of technological innovations to education and training environments directly affects the education levels and development levels of the countries.

Project activities were carried out by preparing a training module for training a qualified workforce, creating an AI-based infrastructure for predictive maintenance and repair, and academic studies for smart maintenance and repair of SES in order to raise awareness both in partner countries and around the world.

Objectives

The aim of our project is to bring together solar energy systems (SES) and artificial intelligence (AI) technologies both for vocational and technical education activities and for the development of innovative maintenance and repair techniques.

The project implementation is needed in order to achieve:

To raise awareness both in partner countries and around the world by researching predictive maintenance of solar energy systems with innovative and smart maintenance and repair techniques. To lay the foundations for different academic studies.

To fill the gap needed in this regard, together with the preparation of an intelligent maintenance and repair module of solar energy systems that can be used in both high school and university levels of Vocational and Technical Education. Thus, to contribute to the number of trained personnel needed by the industry.

To create an exemplary artificial intelligence software infrastructure and making it available to partner institutions. Publishing research results and ensuring that artificial intelligence technologies meet the solar energy field.

Implementation

The activities can be listed as follows.

Activity Group 1: To produce academic publications within the scope of the project. These activities can be summarized as literature review, methodological research, preparation of studies, focus group meetings, document scanning, online meetings, webinar participation etc. Conference presentations and the search for suitable journals for publications are other activities that can be listed under this group.

Activity Group 2: To prepare an innovative and smart maintenance and repair module for SES for VET institutions. These activities include workshops, focus group meetings, collecting needs analyzes from VET institutions, compiling module contents, preparing modules in three different languages, translations of modules and publishing on websites.

Activity Group 3: To prepare the AI software infrastructure for predictive maintenance and repair of SES. These activities include site visits, hardware installation, data collection, stakeholder meetings, data analysis,

infrastructure preparation, feature extraction from data, data visualization, web platform design, focus group meetings.

In addition to these activities, TPM and LTT activities were also carried out within the project.

Achievements

The outputs of the Project can be listed as:

1a: A conference paper presented in an international conference, and published in proceedings.

Link: <https://ieeexplore.ieee.org/document/9925271>

1b: A journal article in a journal which is serving in dergipark (Turkish national journals) platform.

Link: <https://dergipark.org.tr/tr/pub/jismar/issue/74700/1210630>

1c: Another journal article in a journal which is serving in dergipark platform.

Link: <https://dergipark.org.tr/tr/pub/mbd/issue/74683/1217762>

1d: Another article, prepared and submitted to the Solar Journal.

1e: A scientific mikroblog in Greek language in a microblog website of Greece named "RawMatHub.gr"

Link: <https://www.kisa.link/QpoK>

2: A module for maintenance and repair of SES was prepared in Turkish, English, and Greek.

Links:

TR: https://sincan.meb.gov.tr/meb_iys_dosyalar/2022_12/31122349_TR-Module-ISMSES.pdf

EN: https://sincan.meb.gov.tr/meb_iys_dosyalar/2022_12/31122622_ENG-Module-ISMSES.pdf

GR: https://sincan.meb.gov.tr/meb_iys_dosyalar/2022_12/31122937_GR-Module-ISMSES.pdf

3: An AI software infrastructure was created for predictive maintenance and repair of SES.

Link: https://drive.google.com/file/d/1ctWYTi7uugm5IT6PQm9VnHQvM41RHyrI/view?usp=share_link

Link to project card: [Show project card](#)

* Results are available for this project. You can click on the link above, and go to "Results" section to view them

Key Action: Cooperation for innovation and the exchange of good practices
Action Type: Strategic Partnerships for vocational education and training

Project Title

e-Organic



Project Coordinator

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Project Information

Identifier 2020-1-TR01-KA202-093064
Start Date Dec 31, 2020
End Date Dec 30, 2022
EC Contribution 188,729 EUR
Partners KONYA IL MILLI EGITIM MUDURLUGU (TR) , Humus, rete agricola sociale per la bioagricoltura italiana (IT) , Konya Il Tarim ve Orman Müdürlüğü (TR) , National Sheep Association (UK) , Actyva Sociedad Cooperativa (ES)
Topics Agriculture, forestry and fisheries ; Open and distance learning ; New innovative curricula/educational methods/development of training courses

Project Summary

Background

We applied this project with aims such as gathering together of information obtained in organic agriculture and organic animal breeding, which is an integral part of it, increasing information sharing and making it available at national, international and EU levels, establishing e-platforms, adopting good practices, involving more farmers in organic animal breeding, providing training of technical personnel, creating social awareness on issues such as animal health and welfare, ecology and food safety, increasing agricultural areas of organic agriculture, contributing to the "Green Agreement" etc. In this sense, we would like preparing the most important subjects on organic animal production as e-courses, turning them into e-book, providing for the target group (Veterinarians, Agricultural Engineers, Agricultural Vocational High School Teachers) free of charge for 10 years in Turkish and English languages on a web-based and mobile compatible e-platform (web page), thus providing trainings, increasing the knowledge that the target group needs in the field of organic animal breeding and ultimately the realization of our project application reasons.

Objectives

We wanted to prepare an e-training module for target audience of project at national, international and EU level by gathering the information on organic animal husbandry and making it usable. Thus, we aimed to enable our target audience to have more information about organic animal husbandry and provide education in this field, provide technical support to farmers dealing with organic livestock, create a training curriculum for students studying in universities, colleges, agricultural vocational high schools and taking organic livestock lessons, provide equal opportunities in education by contributing to e-education in field of education, provide consumers with easier access to organic animal products that prioritize animal and human health, give importance to animal welfare and environmentally friendly production model instead of animal products containing chemical additives, emphasize food safety, help ecological balance by disseminating organic livestock, open more agricultural areas to organic agriculture, contribute to "Green Agreement", strengthen individual and institutional capacity, increase visibility and cooperation, contribute to globalization, cultural exchange, see good practices in place and achieve similar gains.

Implementation

We carried out the following activities within the scope of the project;

- 1-Strengthening Connections with Partners, Identifying Roles and Responsibilities Meeting: Turkey-BDUTAEM-18 January 2021 (Online)
- 2-e-Lectures (O1), e-Platform (O2) and e-Book (O3) Content Determination Meeting (M1): Turkey-BDUTAEM-10-11 May 2021 (Online)
- 3- e-Lectures (O1), e-Platform (O2) and e-Book (O3) Preparation Meeting (M2): Italy-HUMUS-20-24 September 2021
- 4- e-Lectures, e-Platform and e-Book Conclusion and Preparation to Application Meeting (M3): Spain-ACTYVA-28 February-4 March 2022
- 5-Learning-Teaching-Training Activity (C1): UK-NSA-13-17 June 2022
- 6- Detection and Solution of Problems of Application Meeting (M4): UK-NSA-26-28 July 2022
- 7-Multiplier Events (For Project, e-Lessons, e-Books and e-Platform promotion)
 - a) E1: Turkey-BDUTAEM- between 1 and 22 December 2022
 - b) E2: Italy-HUMUS-24-25 October 2022

- c) E3: Spain-ACTYVA-18-25 November 2022
- d) E4: UK-NSA-7 November 2022, 9 December 2022
- 8-Project Closing Meeting (M5): Turkey-BDUTAEM-4-6 October 2022

Achievements

Three outputs were produced; e-Lectures (O1), e-Platform (O2) and e-Book (O3).

1-Nine topics were covered in the e-Lectures in Turkish-English. After Italian partners proposal, the subject of ETOLOGY was added.

2-The e-Books, have started to be published on website in Turkish-English. E-ISBN numbers of Turkish and English e-Books have been obtained and international online publication has been provided according to the Inter-University Board (ÜAK) Associate Professorship.

3-The e-Platform has been prepared for uploading e-Lectures and e-Books, and has been delivered by the Coordinator Institution for 10 years. Italian and Spanish versions of e-Lectures and e-Books will be added to e-Platform. In addition, e-Platform was designed to cover e-Lectures and e-Books translation into different languages.

As a result, the addition of ethology in e-Lectures and Italian-Spanish pages to e-Platform, translation of e-Lectures and e-Books into Italian-Spanish in additon to Turkish-English, designing the e-Platform for the possibility of translating e-Lectures-e-Books into more different languages, international publication of e-Books with e-ISBN number are considered as other outputs in addition to the initial presentation of our project.

Link to project card: [Show project card](#)

* Results are available for this project. You can click on the link above, and go to "Results" section to view them

Key Action: Cooperation for innovation and the exchange of good practices
Action Type: Strategic Partnerships for adult education

Project Title

Building adult competences in Zero Waste circular economy in Europe



Project Coordinator

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Project Information

Identifier 2020-1-TR01-KA204-093013
Project Web Site <https://zerowaste-project.eu/>
Start Date Dec 31, 2020
End Date Jun 29, 2023
EC Contribution 208,262 EUR
Partners FUNDACION UNIVERSITAT JAUME I-EMPRESA (ES) , Drushtvo za trgovija, uslugi i konsalting FONDOVI, BIZNIS I INOVACII EMKICE KONSALTING DOOEL Skopje (MK) , Karesi Belediyesi (TR) , SWIDEAS AB (SE) , SLOVENSKA POLNOHOSPODARSKA UNIVERZITA V NITRE (SK) , Balıkesir University (TR)
Topics Environment and climate change ; Enterprise, industry, SMEs and entrepreneurship ; New innovative curricula/educational methods/development of training courses

Project Summary

Background

The implications of the linear economic model based on "take-make-dispose" in particular have been proven to have permanent effects on both ecosystems and human well-being. In order to address resource depletion, environmental degradation, and climate change, societies must re-think and re-design their production and consumption systems. In this setting, zero waste and circular economy ideas can serve as critical tools for reinventing how we produce, consume, and manage resources.

Although the transition towards a zero waste-circular economy have gained increasing prominence as imperative solutions to the pressing environmental challenges of our time, there are no innovative curriculum or specific indicators dedicated to it in Turkish and European policy for adult learners. Specially, there is an urgent need for educational tools for the rapid continental transformation required by the EU Green Deal, in which the zero waste and circular economy approach is recognized as a key tool. Moreover, these tools are important not only for environmental imperatives, but also for the economic growth and employment opportunities that a zero-waste circular economy can generate.

Objectives

Making the transition to a Zerowaste-circular economy requires a pressing need for new skills, competencies, and approaches. Enhancing existing skills with zero waste and circular economy knowledge at least as important as acquiring completely new skills. Therefore, a focus on active professionals and adults is needed for a transformation as fast as required by the climate, water, energy, food, and environmental crises we face, especially in recent years. An innovative approach is needed to address these adults who are disconnected from formal education.

The project aimed to identify the current state of development of zerowaste – circular economy in the EU zone, to create an innovative curriculum, and design a guide to increase the competencies of the adult learners on zero waste-circular economy. The project also aimed to show the self-employment, job, and entrepreneurship opportunities of the model. Building adult competencies in circular design and sustainability was also aimed. With these efforts, the objectives of the project were to prompt positive behavioral change and ensure transition zerowaste-circular economy in the most cost-effective way through a combination of teaching, educational resources, and ICT.

Implementation

In summary, the following activities were implemented:

- Project Management & Coordination: monitoring project activities, communication among partners, a Google Shared drive (cloud-storage), an interim-final report summarizing the project's achievements, challenges
- Quality management of IOs, activities, results, meetings (TPMs) and evaluation reports, and activity reports
- Dissemination activities, including visual identity (logo, visual templates, etc), the dissemination plan, leaflet/brochure, creation of social media accounts, project website design, and administration throughout the project <https://zerowaste-project.eu/>, newsletters,
- 2 virtual meetings and 5 TPMs, 6 multiplier events, and project web conferencing when it is needed.
- IO1: Preparation of Baseline Report, Pedagogical Methodology, development of innovative modular curriculum, design the waste education guide
- IO2: design and development ICT-related e-learning environment on the project web page by adding the easily downloadable adult training toolbox and policy library and validation of training content of the project.

- IO3: Creation of entrepreneurship manual and preparation of the project handbooks and e-books with all project languages.

Achievements

All intended results and outputs were achieved. The project achieved the following intellectual outputs under three main headings.

Outputs achieved in IO1;

- Baseline Report on the state of the art in the European Union,
- Pedagogical Methodology, which includes an educational approach suitable for changing conditions within the scope of the Covid-19 process and digitalization
- Innovative modular curricula (8 modules including Introduction, Circular Economy, Smart Cities, Reduce, Reuse, Recycling, Legislation, and Case Studies)
- Waste Education Guide with interactive activities

Outputs achieved in IO2;

- ICT Related e-learning platform on the project web page
- A training toolbox
- Policy library,
- Pilot test report

Outputs achieved in IO3;

- Entrepreneurship Manual
- Handbook in English and Turkish (100 copies), E-books in all project languages

In addition to the main project outputs; Quality management Plan / Quality management report, Dissemination Plan / Dissemination Reports, Dissemination Materials (6 Newsletters, several leaflets, brochures, a podcast, seminar presentations), Partners and Project Multiplier Events Reports, TPM reports, TPM Evaluation Reports, Overall project/partnership assessment reports

Link to project card: [Show project card](#)

* Results are available for this project. You can click on the link above, and go to "Results" section to view them