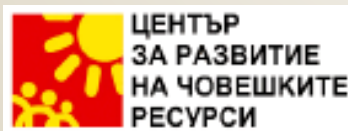


Eco-friendly ICT-based training outcomes for adults – ECO-Train

Erasmus+

KA2 – Cooperation and Innovation for Good Practices Project

Agreement 2019-1-BG01-KA204-062366



Co-funded by the
Erasmus+ Programme
of the European Union

THE PROJECT

Key Action: Cooperation for innovation and the exchange of good practices

Action: Strategic Partnerships

Field: Strategic Partnerships for Adult Education

Target groups: Adult educators

The consortium : 7 partners
4 countries – BG, ES, GR, IL

THE PROJECT

ECO-Train specific objectives:

- ❖ To include principles of adult education (AE) in the deployment of modules matching adult educators' needs;
- ❖ To constitute and deliver AE experiences respecting the targets' needs and integrate AE with practice exploiting the vast capacity of mobile learning;
- ❖ To offer a scheme for gaining competitive competences emphasizing on eco-innovative character of technologies for sustainable development;
- ❖ To apply EQF and ECVET validation instruments to facilitate recognition of skills and competences adopted via AE;
- ❖ To implement the concept of "Education for Sustainable Development (ESD)".



THE PROJECT

ECO-Train innovative elements:

- ❖ Introduction of key considerations in use of biotechnologies, health technologies, nanotechnologies and ICT for more sustainable economy and society;
- ❖ Promotion of the worldwide impact of key eco-friendly technologies in solving global problems;
- ❖ Promotion the transfer of knowledge and skills in the ECO-Train field, which can change the economic success of society, in particular through ICT-based training.



MANAGEMENT & IMPLEMENTATION

- ❖ Seven major project activities - structured and distributed in four operational phases
- ❖ Each phase is:
 - ❖ Performed through ordered work with adequate technical, human and financial resources
 - ❖ Supervised by a leading organization
 - ❖ Governed through well known management methods, tools and techniques.



MANAGEMENT & IMPLEMENTATION

Preparation Phase

- ❖ No 1: Arrangement of ECO-Train management and administration (1-5 month, P1)
- ❖ No 2: ECO-Train project start up: design of project concept (2-6 month, P2 & P3)

Implementation Phase

- ❖ No 3: ECO-Train methodological framework and work plan (6-20 month, P1 and P8;)
- ❖ No 4: Intellectual Outputs production (6-20 month, P2 & P3)

Follow-up Phase

- ❖ No 5: Approbation of ECO-Train deliverables - performance of Multiplier Events (16-20 month, P5 & P7)
- ❖ No 6: Performance of D&U (1-20 month. P4 & P5)

Sustainability Phase

- ❖ No 7: Assurance of durable effect of ECO-Train achievements(18-20 month. P3 & P1)

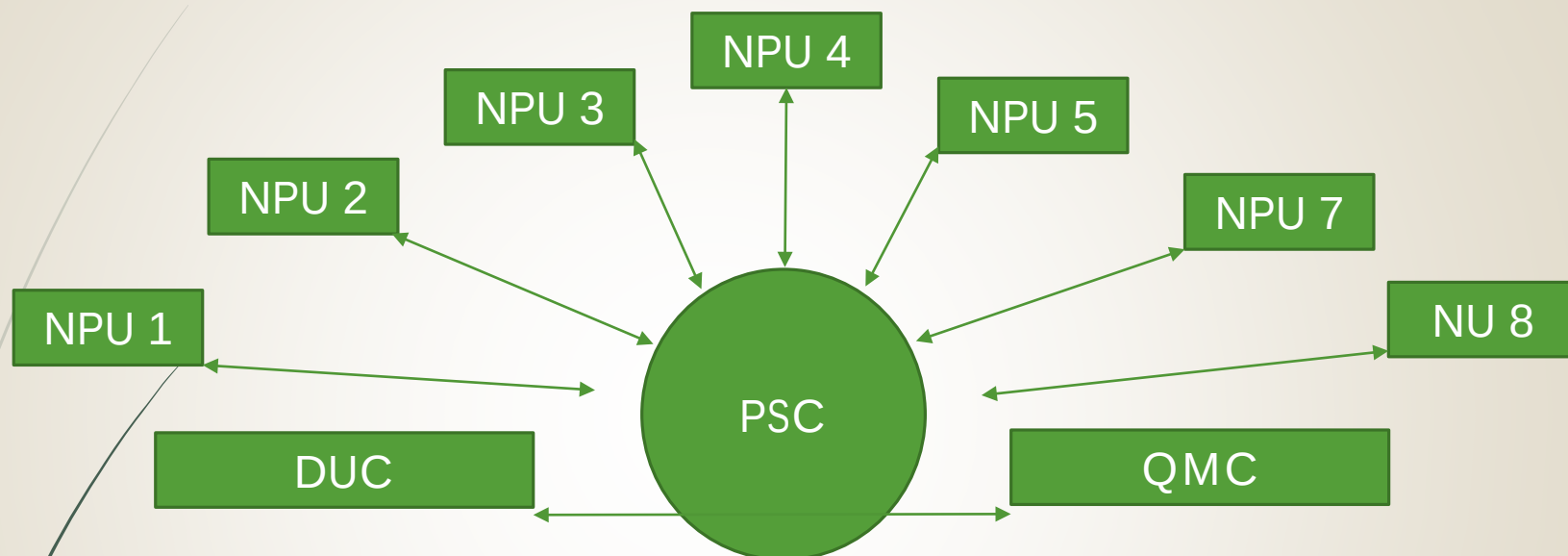
MANAGEMENT & IMPLEMENTATION

1. Activities of project management administration -

coordinate project activities, organize D&U measures perform quality control, monitoring and evaluation

- ❖ A1-1 Establishment of project operational units (All Ps):
 - ❖ Project Steering Committee (PSC)
 - ❖ National Partner Units (NPU)
 - ❖ Quality Management Council (QMC)
 - ❖ Dissemination and Use Council (DUC)

MANAGEMENT & IMPLEMENTATION



NPU 1:

NPU 2:

...

NPU 8:

PSC:

DUC:

QMC:



MANAGEMENT & IMPLEMENTATION

- ❖ A1-2 Control of the project development (P1, PSC)
- ❖ A1-3 Initiating contacts with partners and between them (P1)
- ❖ A1-4 Preparation of Partners' contracts and supervision of their implementation (P1, QMC)
- ❖ A1-5 Organization of TPMs (P1, DUC)



MANAGEMENT & IMPLEMENTATION

- ❖ A1-6 Project assessment (All Ps, PSC, QMC)
- ❖ A1-7 Tracking of tasks performance, record keeping, and reporting (P1, P2, QMC)
- ❖ A1-8 Implementation of activities under the project objectives specified in the contract (P1, P2, QMC)
- ❖ A1-9 Carrying out administrative and accounting services within the part of the grant allocated for these actions (All Ps, QMC)
- ❖ A1-10 Keeping contact between the coordinating organization and the partners (All Ps)

MANAGEMENT & IMPLEMENTATION

2. Activities of the project management implementation

1st phase (1-6 month)

- ❖ A2-1 Issue of project road-map (P1, PSC)
- ❖ A2-2 formulation and distribution of project tasks/activities (P1, PSC)
- ❖ A2-3 Issue of action plans, instructions manuals, project records, guidelines, checklists, etc. (P1-P3, PSC)
- ❖ A2-4 Issue of monitoring tools, performance of quality reviews and internal audits (P1-P3, PSC, QMC)
- ❖ A2-5 Issue of project operational plan and its supervision (P1-P3, PSC)
- ❖ A2-6 Issue of financial management tools, provision of project outputs and running financial reports (P1, PSC)
- ❖ A2-7 Establishment of the e-technical background of the project: creation of project e-portal (P7, P3, QMC, DUC)

MANAGEMENT & IMPLEMENTATION

2. Activities of the project management implementation

2nd phase (7-14 month)

- ❖ A2-8 Elaboration of tools for targets' opinion analysis (inquiries, questionnaires) (P1, DUC)
- ❖ A2-9 Planning the D&U of project Intellectual Outputs (P4, P5, DUC)

3rd phase (15-20 month)

- ❖ A2-10 Elaboration of evaluation tools for results assessment, appraisal, and verification (P5, P7, DUC)
- ❖ A2-11 Assurance of D&U activities (P4, P5, DUC)

4th phase (18-20 month)

- ❖ A2-12 Performance of ECO-Train sustainability measures (P1, PSC)
- ❖ A2-13 Use of resources for final report (P1-P3, PSC)

MANAGEMENT & IMPLEMENTATION

I. Results developed during the Preparation phase

- ❖ Quality Management Plan (QMP) - P1; EN; e-form
- ❖ Project Communication Plan (PCP) - P1 & PSC; EN; e-form
- ❖ Dissemination and Use Plan (D&UP) - P1 & PDC; EN; e-form

II. Results developed during the Implementation phase

- ❖ Project road-map - P1; EN; e-form
- ❖ Project web platform design survey tool - P1; EN; e-form
- ❖ ECO-Train Intellectual Outputs – P1-P8; BG, EN, ES & GR; e-form
- ❖ Forms and tools for evaluation purpose – P1-P8; EN; e/printed



MANAGEMENT & IMPLEMENTATION

III. Results developed during the Follow-up and Sustainability phases

- ❖ Template forms for internal assessment of project outputs and outcomes - P5 & P7; EN; e-form
- ❖ Template forms for external evaluation of project activities and outputs – P2 & P3; EN; e-form

IV. Results linked to project Dissemination & Use, and Impact delivery

- ❖ D&U checklist – P1-P8; EN; e-form
- ❖ Dissemination materials - P1-P8; EN; e/printed form

INTELLECTUAL OUTPUTS

- ✓ O1: ICT in training – practical instructions to adult educators
- ✓ O2: ECO-Train blended training Web-2 platform
- ✓ O3: ECO-Train ICT-based training scheme promoting learning opportunities for adult educators
- ✓ O4: ECO-Train blended training modules - **suspended**
- ✓ O5: ECO-Train toolkit: a technical handbook for exploitation of blended training modules - **suspended**
- ✓ O6: ECO-Train guide: How to prepare and use Learning Outcomes-based modules for adult educators

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Os																				
O1																				
O2																				
O3																				
O4																				
O5																				
O6																				



O1: ICT in training – practical instructions to adult educators

- **Output Leader:** P1 ROMB, BG
- **Project structures:** PSC, DUC and QMC
- **Languages:** EN
- **Media(s):** Website
- **Availability:** 01.09.19 - 28.02.2020
- **Target group:** trainers that practice in the field of innovative eco-friendly technologies, and subject matter experts involved in content development

O1: ICT in training – practical instructions to adult educators

Guidance material composed of three parts that stress upon ICT applications within training context.

- ❖ Part 1: Training about ICT (PCs and the Internet) - key aspects of technological literacy applications in training (presentation software, storage, human interaction, and virtual reality).
- ❖ Part 2: Training with ICT - technology facilitates learning:
 - ❖ Presentation, demonstration, and manipulation of data using productivity tools;
 - ❖ Use of curriculum-specific applications types - educational games, simulations, tutorials, virtual laboratories, visualizations and graphical representations of abstract concepts,
 - ❖ Use of information and resources on CD-ROM or online - encyclopedia, interactive nets, electronic journals and other references.
- ❖ Part 3: Examples of ICT applications in innovative eco-friendly technologies.



O1: ICT in training – practical instructions to adult educators

- ❖ T1. Preparatory work: 1–4 month; P1, all Ps; PSC
 - ❖ Distribution of partner's activities
 - ❖ Specification of content objectives – selection of key terms
 - ❖ Structuring the guide - extended table of contents
- ❖ T2. Production of 'Training with ICT' guide: 4-6 month; P1, all Ps; PSC
 - ❖ Creation of the specific content for Part 1 and Part 2
 - ❖ Description of selected examples (Part 3)
- ❖ T3. Evaluation of 'Training with ICT' guide: 6 month; all Ps, PSC
 - ❖ Assessment, gathering of feedback and analysis of findings
 - ❖ Launching of conclusions and final tuning
- ❖ T4. Quality assurance and D&U measures performance, 1–6 month; P8, P4; PSC, QMC, DUC



O2: ECO-Train blended training Web-2 platform

- **Output Leader:** P7 C.F. PERACH HOLDINGS LTD, IL
- **Project structures:** PSC, DUC and QMC
- **Languages:** BG, EN, ES, GR
- **Media(s):** Website
- **Availability:** Establishment–28.02.20; Operation–30.04.21
- **Target group:** Adult educators (incl. non-teaching support staff); R & D professionals, employers / managers of settings whose activity is in the project field; unemployed and first-job seekers; policy-makers and social partners



O2: ECO-Train blended training Web-2 platform

Learner-centered IT-based platform designed and built as a training environment

- ❖ Information about the project (aims, objectives, target groups, implementation phases, anticipated results and outputs, expected impact); ECO-Train consortium and its role in the project progress.
- ❖ ECO-Train e-training panel
 - ❖ ECO-Train e-resources: a meta-database that offers information to end-users, such as:
 - ❖ Records of useful links, legislation documents, adult education information, studies and reports pertinent to European and national level development practices, etc.;
 - ❖ National/EU information regarding the up-to-date resources in the field of innovative eco-friendly technologies and related sectors.
- ❖ Open forum for D & U



O2: ECO-Train blended training Web-2 platform

- ❖ T1. Design and Internet programming of the web-based platform: 1–4 month (P7, all Ps, PSC)
 - ❖ Preparation of the web-based platform scheme
 - ❖ Web design: demands and expectation survey and preparation of assignment
 - ❖ Internet programming: choice of domain, establishment of on/off-line services, structuring the subject database of e-resources; blended-training environment setting up
- ❖ T2. Testing and feedback of the e-portal functionality: 3–5 month: 3–5 month (P7, all Ps, PSC)
 - ❖ Creation and padding the web-based platform scheme with data
 - ❖ Examination of the portal's safety



O2: ECO-Train blended training Web-2 platform

- ❖ T3. Final tuning and maintenance of the web-based platform: 6–20 month (P7, all Ps, PSC, DUC, QMC)
 - ❖ Sustenance the infrastructure of the web-based platform
 - ❖ Security of the web-based platform
 - ❖ Arrangement of training modules/courses in the e-training environment
 - ❖ Establishment or relationship with trainees
- ❖ T4. Provision of web-based training platform delivery and use: 6–20 month (P7, all Ps, PSC, DUC)
 - ❖ e-Training environment acceptance from the end-users and on/off-line facilities employment.
 - ❖ Overview and progress of the web-based platform
- ❖ T5. Quality assurance and D&U actions: 1–20 month (P8, all Ps, QMC, PSC)



O3: ECO-Train ICT-based training scheme promoting learning opportunities for adult educators

- **Output Leader:** P2 Intellect Foundation, BG
- **Project structures:** PSC, DUC and QMC
- **Languages:** BG, EN, ES, GR
- **Media(s):** Website
- **Availability:** 01.12 - 31.12.2020
- **Target group:** Adult educators



O3: ECO-Train ICT-based training scheme promoting learning opportunities for adult educators

Establishment and operation of ECO-Train ICT-based training scheme - a model for organization and functioning of a training process for adult learning providers

- ❖ Design of an algorithm for presentation of elaborated training content in ULOs as basic components of competence;
- ❖ Selection of suitable learning tools: on-/off-line based training material including (self)assessment elements;
- ❖ Creation of 10 Training Pathways (TPs) composed by particular ECO-Train LOs designed to match EQF levels 5, 6 & 7
- ❖ Use of the ECVET concept for estimation of project training materials and training methodology;
- ❖ Generation of competences description for adult educators in the project field in accordance with EQF levels 5, 6 and 7 and main descriptors (knowledge, skills, autonomy-responsibility);
- ❖ Outlook proposition of certification process.



O3: ECO-Train ICT-based training scheme promoting learning opportunities for adult educators

- ❖ T1. Specification of the educational needs: 4–6 month (P2, all Ps, PSC)
 - ❖ Identifying the target audience
 - ❖ Study the level of competence
 - ❖ Preparing a detailed plan for training
- ❖ T2. Training scheme, based on LOs: 5–8 month (P2, all Ps, PSC)
 - ❖ Setting up of the training modules model
 - ❖ Determining EQF levels
 - ❖ Specification of LOs elements following EQF descriptors



O3: ECO-Train ICT-based training scheme promoting learning opportunities for adult educators

- ❖ T3. Integration of ECO-Train learning material: 9–16 month (P2, all Ps, PSC)
 - ❖ Definition of ECO-Train ULOs
 - ❖ Assignment of ECVET credit points
 - ❖ Elaboration of Training Pathways
 - ❖ Assessment of end-users learning and progress
- ❖ T4. Promotion activities: 4–16 month (P4, all Ps, PSC, DUC)



O6: ECO-Train guide: How to prepare and use LOs-based modules for adult educators

- **Output Leader:** P8 SID 97 Ltd., BG
- **Project structures:** PSC, DUC and QMC
- **Languages:** EN
- **Media(s):** Website
- **Availability:** 01.10.2020 - 30.04.2021
- **Target group:** Adult educators



O6: ECO-Train guide: How to prepare and use LOs-based modules for adult educators

Definition, organization, implementation and evaluation of all necessary actions for structuring Learning Outcomes

- ❖ **Developing Learning Outcomes** - how to write Learning Outcomes
- ❖ **Composing Units of Learning Outcomes** – structuring the ECO-Train training program
- ❖ **ECVET granting and certification**
- ❖ Testing and feedback



O6: ECO-Train guide: How to prepare and use LOs-based modules for adult educators

- ❖ T1. Personalization of the competence-oriented training: 14-16 month (P8, all Ps, PSC)
 - ❖ Evaluation of the trainees' level of competence and matching it to the EQF/NQF levels
 - ❖ Description of the LOs by elements and content
- ❖ T2. Definition of ULOs for design of qualification: 14-16 month (P8, all Ps, PSC)
 - ❖ Composing the set of ULOs



O6: ECO-Train guide: How to prepare and use LOs-based modules for adult educators

- ❖ T3. Elaboration of qualification description: 17-18 month (P8, all Ps, PSC, QMC)
 - ❖ Arrangement of groups of ULOs leading to competency
 - ❖ Credits arrangements in accordance with EQF and launching of certification
 - ❖ Provision of training familiar with the customization process in the field of ECO-Train
- ❖ T4. Testing of the training material: 17-18 month 17-18 month (P8, all Ps, PSC, QMC)
 - ❖ Test analysis approval; Test problem reports
- ❖ T5. Quality assurance and D&U measures performance: 14-19 month (P8, P4, all Ps, QMC)



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