

INTELLECTUAL OUTPUT 2.

OER (ONLINE EDUCATIONAL RESOURCE)

TASK IO 2.3 Implementation in specific courses



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**Universitatea
Transilvania
din Braşov**



ROMANIA
GREEN
BUILDING
COUNCIL

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1. DESCRIPTION OF THE TASK

This report is included in the IO2 OER (Open Educational Resource) which is based on the implementation in technical courses and trainings on specialisation focused on the OERCO2 project. Partners of the Project have implemented pilot courses and used current courses based on the products of the project, which was also served as evaluating products for possible improvement before the end of the project.

The feedback obtained from experts during these courses and events was very useful to the improvement of the products of the project, mainly the Production of the OER and the CO2 Tool, both quality assessment of technical content and pedagogical approach and IT quality assessment of ICT Based

The beta versions of those products were shown to experts and teachers, to be checked and used in during or after the courses. It was necessary because beta versions to correct them, as well as sometimes the trainings are carrying out in facilities where there is not online connection.

Finally, the consortium has also scheduled courses, trainings and other events (workshops, meetings, seminars, etc.) beyond the end of the project in order to guarantee the sustainability of the project.

2. EXPERTS, ENTITIES AND COURSES IN OERCO2 PROJECT

2.1. DURING THE PROJECT. EXPERTS, ENTITIES, COURSES AND OTHER EVENTS WHERE WAS CONSULTED ABOUT THE CO2 TOOL AND/OR THE OER (ONLINE EDUCATIONAL RESOURCE)

TABLE 2.1.1. Expert and entities consulted

USE

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RoGBC

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Aktron Srl	+40 775 106 961	SME	Construction materials
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TABLE 2.1.3. Courses or trainings where the project was shown

USE

Name of the course/training	Venue	Date/Period	Number of students
Master Rehabilitación de Edificios (REEB)	Centro de Formación Permanente (Universidad de Sevilla)	Noviembre 2017	10
Certificación Ambiental de Productos y Edificios	ETS Ingeniería de Edificación (Universidad de Sevilla)	Marzo-Abril 2018	5
Construcción V	ETS Ingeniería de Edificación (Universidad de Sevilla)	Mayo 2018	25
Construcción Medioambiental y Tecnologías Sostenibles.	ETS Arquitectura (Universidad de Sevilla)	2018	25

CTM

Name of the course/training	Venue	Date/Period	Number of students
Chemical substances	Almería	03/05/2018	17
Maintenance (Occupational risk prevention, OPR)	Valencia	10/05/2018	11
Chemical substances	Barcelona	15/05/2018	16
Chemical substances	Girona	17/05/2018	14
Chemical substances	Valencia	23/05/2018	20
Maintenance (Occupational risk prevention, OPR)	Valencia	24/05/2018	10
Chemical substances	Almería	05/06/2018	17
Protective and Safety Equipment (PPE)	Alicante	05/06/2018	13
Chemical substances	Málaga	07/06/2018	16
Chemical substances	Madrid	21/06/2018	19
Chemical substances	Alicante	05/07/2018	17
ITC Maintenance	Murcia	09/07/2018	7
Chemical substances	Cantabria	27/07/2018	6
Protective and Safety Equipment (PPE)	Cantabria	02/08/2018	6



15/05/2018. Barcelona.



17/05/2018. Girona.



23/05/2018. Valencia.



07/06/2018. Málaga.



05/06/2018. Alicante.

CertiMaC

Name of the course/training	Venue	Date/Period	Duration	Number of students
nZEB and Green Building	CAN Ecipar - Faenza (RA), Italy	24/05/2016	6h	25-30
Sustainability and energy management in building and construction sector	IIPLE – Bologna (BO), Italy	April-May, 2017	13h	25
Energy management specialists	CertiMaC – Faenza (RA), Italy	05/07/2017	8h	25-30
Training devoted to Professionals with a focus on Construction products performances and sustainability	IFTA -Faenza (RA), Italy	April - May, 2017	20h	25-30
Sustainability and energy management in building and construction sector	IIPLE – Bologna (BO), Italy	April-May, 2018	20h	25

UTBv

Name of the course/training	Venue	Date/Period	Number of students
Degree classes: Building materials, Civil buildings, Legislation in constructions and installations, Environmental engineering, Management in constructions	Faculty of Civil Engineering Transilvania University of Brasov	12.2017 – 05.2018	15 - 50
Master classes: Energetically performance optimization of buildings envelope, Certification and evaluation of buildings energetical performance	Faculty of Civil Engineering Transilvania University of Brasov	12.2017 – 05.2018	15 - 30



Degree classes



Master classes

RoGBC

Name of the course/training	Venue	Date/Period	Number of students
Green Building Certification Systems	Palazzo Argentina, Bucharest	May 2018	23
Green Building Certification Systems	FAB Lab, Iași	April 2018	5
Legal Requirements and Voluntary Certification for Green Buildings in Romania	Palazzo Argentina, Bucharest	September 2017	4
Green Homes Certification	Palazzo Argentina, Bucharest	May 2017	25
Legal Requirements and Voluntary Certification for Green Buildings in Romania	Palazzo Argentina, Bucharest	March 2017	6

TABLE 2.1.4. Other events (workshops, meetings, seminars, etc.) where the project was shown

USE

Name of the event	Venue	Date/Period	Number of attendants
Rehabilitaverde 2016	Colegio Oficial de Aparejadores y Arquitectos Técnicos de Sevilla	26 Octubre 2016	50
III Congreso Internacional de Construcción Sostenible	ETS de Arquitectura (Universidad de Sevilla)	27-29 Marzo 2017	25
Seminario Torroja. La Rehabilitación Ecoeficiente de edificios y barrios	Instituto Torroja (Madrid)	14 Septiembre 2017	25
City-zen Roadshow. Sustainable Workshops in Architecture & Technology (SWAT).	ETS Ingeniería de Edificación (Universidad de Sevilla)	20 Noviembre 2017	25
IV International Congress on Construction and Building Research	Universidad de La Laguna	14-15 Diciembre 2017	25
Sustainability journal	On-line	Mayo 2018	
Workshop OERCO2	ETS Ingeniería de Edificación (Universidad de Sevilla)	16 Mayo 2018	10

Special Mention Quarterly IUACC Award for Best Scientific Publication	Escuela de Arquitectura de Sevilla	Junio 2018	
Digital media	https://phys.org/news/2018-07-social-tool-environmental-impact-residential.html https://www.sciencedaily.com/releases/2018/07/180719101258.htm http://noticiasdelaciencia.com/not/29455/una-herramienta-social-para-evaluar-el-impacto-medioambiental-de-edificios-residenciales/ https://www.diariodesevilla.es/universidadsinlimites/investigacion/herramienta-evaluar-medioambiental-edificios-residenciales_0_1266173939.html http://comunicacion.us.es/centro-de-prensa/personal-docente-e-investigador/una-herramienta-social-para-evaluar-el-impacto https://idescubre.fundaciondescubre.es/noticias/una-herramienta-social-evaluar-impacto-medioambiental-edificios-residenciales/	Julio 2018	

CTM

Name of the event	Venue	Date/Period	Number of attendants
First International Seminar of OERCO2 Project	Murcia	25/11/2016	35
Free training day on CO2 emissions calculation and life cycle analysis applied to the construction sector	Murcia	06/06/2018	11

CertiMaC

Name of the event	Venue	Date/Period	Total number of general public reached
MADE Expo	Milano Fair (MI), Italy	March, 7-11 th , 2017	250
R2B – Research to Business	Bologna Fair (BO), Italy	June, 8-9 th 2017	50
R2B – Research to Business	Bologna Fair (BO), Italy	June, 7-8 th 2018	50

CTCV

Name of the event	Venue	Date/Period	Number of attendants
TECHDAYS – Aveiro – 2017	Aveiro	12-14 October 2017	50
Economia Circular – Cluster Habitat - ACIB -	Oliveira do Bairro	26 October 2017	+ 50
Circular economy and waste (eGAR) in Coimbra - PORTUGAL	Coimbra	22 November 2017	+120
Jornadas técnicas da Cerâmica Ceramic technical days	Coimbra	29-30 November 2017	200
International Conference on Environment in Portuguese Language	Aveiro	10 May 2018	+ 250
TEKTÓNICA – International Building and Construction Fair	Lisbon	16 - 19 May 2018	120
SIG HABITAT (www.sighabitat.pt) - Sistema de Informação e Gestão do Cluster Habitat Sustentável	Portugal	From 2017 until 2018	+ 1000

UTBv

Name of the event	Venue	Date/Period	Number of attendants
International Scientific Conference CIBv 2016	Faculty of Civil Engineering Transilvania University of Brasov	28 – 29.10.2016	30
progRESSHEAT - Information and training seminar for policy makers	Brasov City Hall	06.07.2017	20
Holcim Network – round table	Hotel Kronwel, Brasov	28.09.2017	20
European Researchers Night 2017	Andrei Saguna College	29.09.2017	300
International Scientific Conference CIBv 2017	Faculty of Civil Engineering Transilvania University of Brasov	03 – 04.11.2017	50
The 3rd China-Romania Science and Technology Seminar CRSTS 2018	Exhibition area – Transilvania University of Brasov Aula	25.04.2018	100
The 3rd China-Romania Science and Technology Seminar CRSTS 2018	Conference presentation - The R&D Institute of the Transilvania University	26.04.2018	20

RoGBC

Name of the event	Venue	Date/Period	Number of attendants
National Real Estate Fair	Palace of the Parliament, Bucharest	May 18-20, 2018	Around 3.000 over 3 days
International Conference “EURO-Constructii”	Radisson Blu Hotel, Bucharest	May 15, 2018	250+

RoGBC Annual Meeting	Palazzo Argentina, Bucharest	October 26, 2017	50+
OERCO2 International Seminar in Bucharest	La firul ierbii Hub. Bucharest	October 9, 2017	50+
National Real Estate Fair	Palace of the Parliament, Bucharest	September 29-October 1, 2017	Around 3.000 over 3 days
ConstructEXPO Trade Fair	Romexpo, Bucharest, Romania	March 23-26, 2017	Around 3.500 over 4 days

2.2. BEYOND THE END OF THE PROJECT

Partners of the project will use the final version of CO2 Tool and OER in their courses beyond the end of the project. In the following tables are shown some examples scheduled.

TABLE 2.2.1. Courses or trainings where project results will be shown

USE

Name of the course/training	Venue	Date/Period	Number of students
Construcción V (Grado en Edificación)	ETS Ingeniería de Edificación (Universidad de Sevilla)	Febrero-Mayo 2019	100
Master Rehabilitación de Edificios (REEB)	Centro de Formación Permanente (Universidad de Sevilla)	Febrero 2019	25
Certificación Ambiental de Productos y Edificios (Master en Gestión Integral en la Edificación)	ETS Ingeniería de Edificación (Universidad de Sevilla)	Marzo 2019	10
Construcción Medioambiental y Tecnologías Sostenibles.	ETS Arquitectura (Universidad de Sevilla)	2019	25
Evaluación ambiental de los recursos materiales empleados en la construcción de edificios	Colegio Oficial de Aparejadores y Arquitectos Técnicos de Sevilla	2019?	100?
Evaluación ambiental de los recursos materiales empleados en la construcción de edificios	Colegio Oficial de Arquitectos de Sevilla	2019?	100?
Evaluación ambiental de los recursos materiales empleados en la construcción de edificios	Instituto de Ciencias de la Educación (Universidad de Sevilla)	2019?	100?
Evaluación ambiental de los recursos materiales empleados en la construcción de edificios	Centro de Formación Permanente (Universidad de Sevilla)	2019?	100?

CTM

Name of the course/training	Venue	Date/Period	Number of students
Not yet scheduled			

CertiMaC

Name of the course/training	Venue	Date/Period	Number of students
Not yet scheduled			

UTBv

Name of the course/training	Venue	Date/Period	Number of students
Degree classes: Legislation in constructions and installations, Environmental engineering, Management in constructions	Faculty of Civil Engineering Transilvania University of Brasov	10.2018 – 06.2019	15 - 50
Master classes: Energetically performance optimization of buildings envelope, Certification and evaluation of buildings energetical performance	Faculty of Civil Engineering Transilvania University of Brasov	10.2018 – 06.2018	15 - 30
Interior design – practical course	Fundația FPIP-Viitor, Brasov	08 – 09.2018	15
New degree class: Constructions sustainability	Faculty of Civil Engineering Transilvania University of Brasov	10.2020 – 02.2021	30
New degree class: Renewable energy sources	Faculty of Civil Engineering Transilvania University of Brasov	10.2021 – 02.2022	30
New degree class: Special concrete and composite materials	Faculty of Civil Engineering Transilvania University of Brasov	10.2020 – 02.2021	30

RoGBC

Name of the course/training	Venue	Date/Period	Number of students
Green Building Certification Systems	FAB Lab, Iași	October 2018	Around 10
Green Building Certification Systems	Palazzo Argentina, Bucharest	October 2018	Around 20
Sustainable Materials and Resources	Palazzo Argentina, Bucharest	Autumn 2018	Around 20

TABLE 2.2.2. Other events (workshops, meetings, seminars, etc.) where project results will be shown

USE

Name of the event	Venue	Date/Period	Number of attendants
Rehabilitaverde 2019	Colegio Oficial de Aparejadores y Arquitectos Técnicos de Sevilla	2019	100
Workshop OERCO2 (Programa de Doctorado de Arquitectura)	ETS de Arquitectura de la Universidad de Sevilla	2019	20
Congreso Internacional de Construcción Sostenible	¿?	¿?	¿?

CTM

Name of the event	Venue	Date/Period	Number of attendants
International Seminar of project BIMclay	Hispalyt (Madrid)	February 2019	30-40
International Seminar of project UrbanBIM	RoGBC (Bucharest)	November 2018	50-80
Construtec. Archistone	IFEMA (Madrid)	February 2017	+100
Technical day in Verona Marmomacc	Verona (Italy)	September 2018	50-80
Semana de la Ciencia y la Tecnología 2018	Murcia (Spain)	October 2018	+200

CertiMaC

Name of the event	Venue	Date/Period	Total number of general public reached
MADE Expo	Milano Fair (MI), Italy	March, 13-16 th , 2019	250 (expected)

CTCV

Name of the event	Venue	Date/Period	Number of attendants
APICER CER++ Project presentation	Coimbra	12 September 2018	60
Circular Economy Seminar – APICER	Porto	2 October 2018	150
TECHDAYS Aveiro	Aveiro	October 2018	80
Ceramic Industry Conference	Coimbra	November 2018	200
TEKTÓNICA – International Building and Construction Fair	Lisbon	May 2019	100 to 200

UTBv

Name of the event	Venue	Date/Period	Total number of general public reached
Not yet scheduled			

RoGBC

Name of the event	Venue	Date/Period	Total number of general public reached
National Real Estate Fair	Palace of the Parliament, Bucharest	September 2018	Around 3.000 over 3 days