



Task O2/A3-A4

TECHNICAL AND PEDAGOGICAL TEST AND IMPLEMENTATION OF IT IMPROVEMENTS

O2. BIMstone MULTIMEDIA MATERIALS. NEW INTERACTIVE BIM- LEARNING METHODS



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1. DESCRIPTION OF THE TASK

This report O2/A3-A4 “Pedagogical AND Tehcnical test and implementation of IT improvements of BIMstone Multimedia Cards” is included in the Intellectual Output 2 “BIMstone Multimedia Materials. New Interactive BIM-Learning methods” which is based on ICT and includes 10 multimedia flashcards based on BIM technology and LCA in stone products.

This is available free of charge on the project website to be used as support material in the numerous architecture, construction and heritage courses taught in the stone products sector. The BIMstone Multimedia Cards have also been designed and produced to support the implementation of the BIMstone Course and the OER (Open Educational Resource) developed in the BIMstone project.

The feedback obtained from experts during the courses and events was very useful to the improvement of the products in development, mainly the production of the BIMstone Multimedia Cards, the Open Educational Resource and the Interactive BIMtool 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.

A single report compiling the results of the pedagogical and technical testing has been developed in order to be more useful, as agreed by the project consortium members.

2. EXPERTS AND ENTITIES CONSULTED ON BIMstone PROJECT

2.1. TECHNICAL EXPERTS CONSULTED

Table 2.1.1. Technical experts consulted

DNV

Profession	Name of Organisation where he/she works or freelance, if applicable
software engineer	net-n-net gmbh
web and print designer, marketing expert	Allegria design
Webpage expert	webgo GmbH

COAMU

Profession	Name of Organisation where he/she works or freelance, if applicable
Architect	Consejo Superior de Colegios de Arquitectos de España CSCAE
Architect	Colegio Oficial de Arquitectos de Extremadura COADE
Architect	Colegio Oficial de Arquitectos de Castilla La Mancha COACM
Architect	Colegio Oficial de Aparejadores y Arquitectos Técnicos de LA Región de Murcia COATIEMU
Engineer	Colegio Oficial de Ingenieros Industriales de la Región de Murcia COIIRM
Engineer	Centro Tecnológico de la Energía y el medio Ambiente de la Región de Murcia CETENMA
Engineer	Centro Tecnológico del Mueble y la Madera de la Región de Murcia CETEM
Engineer	Centro Tecnológico de la Construcción de la Región de Murcia CTON
Construction	Fundación Laboral de la Construcción de la Región de Murcia



CTM

Profession	Name of Organisation where he/she works or freelance, if applicable
Engineer	CertiMaC soc.cons. a r.l.
Architect	Cype Soft SL
Architect	Cype Soft SL
Architect	Cype Soft SL
Engineer	DELTA-MPIS
Engineer	Datacomp z.o.o
Engineer	Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)
Architect	Colegio Oficial de Aparejadores y Arquitectos Técnicos de Sevilla (COAAT)

KSK

Profession	Name of Organisation where he/she works or freelance, if applicable
Architect	Tehničko veleučilište u Zagrebu
Civil engineering	freelancer

RoGBC

Profession	Name of Organisation where he/she works or freelance, if applicable
Architect	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest, Romania
Architect	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest, Romania
Architect	National Order of Architects (OAR)

2.2. EXPERTS IN THE FIELD OF EDUCATION CONSULTED

Table 2.2.1. Educational experts

DNV

Profession	Name of Organisation where he/she works or freelance, if applicable
head teacher	Stonemason school Königslutter
senior teacher	Professional school Eichstätt
head teacher	Master school Aschaffenburg
repr. head teacher	Professional school Munique
editor	Natural stone Magazine (Naturstein Magazin)
managing director	Association of German Stonemasons (Bundesverband Deutscher Steinmetze)
General secretary	European & International Federation of Natural Stone Industries (EUROROC)

COAMU

Profession	Name of Organisation where he/she works or freelance, if applicable
Building Engineer - Architect	Universidad Politécnica de Cartagena
Architect	Escuela de Arquitectura e Ingeniería de la Edificación UPCT
Architect	Escuela de Arquitectura e Ingeniería de la Edificación UCAM
Desing	Escuela Superior de Diseño de la Región de Murcia
Education	Consejería de Educación, Juventud y Deportes de la Comunidad Autónoma de la Región de Murcia



CTM

Profession	Name of Organisation where he/she works or freelance, if applicable
Professor	Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)
Architect	Cype Soft SL
Civil Engineer	Universidade do Minho
Construction teacher	Lycee Des Metiers Leonard De Vinci
Construction teacher	SCUOLA EDILE - CPT Centro per la formazione e la sicurezza edile di Padova
Civil Engineer	National Technical University of Athens (NTUA)
Building Engineer	Universidad de Sevilla
Civil Engineer	Universitatea Transilvania din Brasov
Architect	Universidad Católica de San Antonio
Civil Engineer	Warsaw University of Technology

KSK

Profession	Name of Organisation where he/she works or freelance, if applicable
Architect	Tehničko veleučilište u Zagrebu

RoGBC

Profession	Name of Organisation where he/she works or freelance, if applicable
Architect / Lecturer	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest, Romania
Civil Engineer	Universitatea Transilvania din Brasov

2.3. ORGANISATIONS/ENTITIES CONSULTED

Table 2.3.1. Organisations/entities consulted

DNV

Name	Contact (email or phone)	Type of organisation (SME, LE, VET, University, etc.)	Field (industry, mining, research, etc.)
Euroroc	Email/phone/face to face	Industry	Industry
Stonemason school Königslutter	<i>e-mail</i>	University	Education
Professional school Eichstätt	<i>e-mail</i>	University	Education
Master school Aschaffenburg	<i>e-mail</i>	University	Education
Professional school Munique	<i>e-mail</i>	University	Education
Natural stone Magazine (Naturstein Magazin)	<i>e-mail</i>	press	Education

COAMU

Name	Contact (email or phone)	Type of organisation (SME, LE, VET, University, etc.)	Field (industry, mining, research, etc.)
Confederación Regional de Organizaciones Empresariales de Murcia CROEM	<i>Private e-mail</i>	Companies Association	Business
Consejería de Fomento e Infraestructura de la Comunidad Autónoma de la Región de Murcia	Private e-mail	Public Corporation	Urbanism
Concejalía de Urbanismo, Medio Ambiente y Huerta	Private-email	Public Corporation	Urbanism
Colegio Oficial de Aparejadores y Arquitectos Técnicos de LA Región de Murcia COATIEMU	Private-email	Architects Association	Architecture
BIMMATE	Private-email	Architects and Association	Architecture and engineering association



CTM

Name	Contact (email or phone)	Type of organisation (SME, LE, VET, University, etc.)	Field (industry, mining, research, etc.)
Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)	<i>Private e-mail</i>	VET Center	Construction
Lycee Des Metiers Leonard De Vinci	<i>Private e-mail</i>	VET Center	Construction
Asesoramiento, Tecnología e Investigación (ATIN)	<i>Private e-mail</i>	Technical counselling	Technology
Colegio Oficial de Aparejadores y Arquitectos Técnicos de sevilla (COAAT)	<i>Private e-mail</i>	Architects Association	Architecture
Department of Technical Sciences, University of Bucharest	<i>Private e-mail</i>	University	Architecture
BZB1	<i>Private e-mail</i>	VET Center	Construction

KSK

Name	Contact (email or phone)	Type of organisation (SME, LE, VET, University, etc.)	Field (industry, mining, research, etc.)
Fakultet građevinstavst, arhitekture i geodezije u Splitu	Private e-mail	University	Construction

RoGBC

Name	Contact (email or phone)	Type of organisation (SME, LE, VET, University, etc.)	Field (industry, mining, research, etc.)
Colegio Oficial de Aparejadores y Arquitectos Técnicos de sevilla (COAAT)	<i>Private e-mail</i>	Architects Association	Architecture
Department of Technical Sciences, Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest	<i>Private e-mail</i>	University	Architecture
PATRONATUL PRODUCATORILOR DE AGREGATE MINERALE	<i>Private e-mail</i>	NGO	Engineering

3. DURING THE PROJECT. EXPERTS, ENTITIES, COURSES AND OTHER EVENTS WHERE WAS CONSULTED ON BIMstone MULTIMEDIA MATERIALS, BIMstone LEARNING APPLICATION AND OER

3.1. COURSES AND TRAININGS

Table 3.1.1. Courses or trainings where BIMstone project was shown

DNV

Name of the course/training	Venue	Date/Period	Number of students
Natural Stone Seminar "Paving and slab coverings made of natural stone"	Wuerzburg (Germany)	10/12/2019	21
Natural Stone Competence Center Wuerzburg // ERASMUS PROGRAM SEMINAR	Wuerzburg (Germany)	17/09/2019	9

COAMU

Name of the course/training	Venue	Date/Period	Number of students
CURSO "INTERVENCIÓN DEL PATRIMONIO HISTÓRICO"	Murcia – Online	3, 10, 17 y 24/05/2021	40
CURSO "LA METODOLOGÍA BIM Y SUS APLICACIONES EN LA REHABILITACIÓN"	Murcia – Online	23-24/06/2021	25
TALLER PRÁCTICO HERRAMIENTA UNIFICADA LÍDER-CALENER	Online	14, 16, 21, 23/04/2021	25
CURSO ONLINE EXPERTO EN REHABILITACIÓN. MÓDULO 2. INTERVENCIÓN EN FACHADAS	Online	26/10/2020	60
CURSOS BIMGREEN GRATUITOS Y CON CERTIFICACIÓN	Alicante-Murcia-Cartagena	06/2020	>50
INTRODUCCIÓN A LA METODOLOGÍA BIM Y SU APLICACIÓN EN LA LICITACIÓN PÚBLICA	Online	3, 5, 7, 10, 12 y 14/02/2020	>50

CTM

Name of the course/training	Venue	Date/Period	Number of students
APLICACIÓN PRÁCTICA DE NUEVAS TECNOLOGÍAS BIM EN LA PRESCRIPCIÓN TÉCNICA DEL IMPACTO AMBIENTAL DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Murcia	9-16/11/2020	30
APLICACIÓN PRÁCTICA DE NUEVAS TECNOLOGÍAS BIM EN LA PRESCRIPCIÓN TÉCNICA DEL IMPACTO AMBIENTAL DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Cartagena	16-20/11/2020	30
APLICACIÓN PRÁCTICA DE NUEVAS TECNOLOGÍAS BIM EN LA PRESCRIPCIÓN TÉCNICA DEL IMPACTO AMBIENTAL DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Alicante	23-27/11/2020	30
DECLARACIÓN AMBIENTAL DE PRODUCTO BASADA EN EL ANÁLISIS DE CICLO DE VIDA (ACV) DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Murcia	9-11/09/2020	30
DECLARACIÓN AMBIENTAL DE PRODUCTO BASADA EN EL ANÁLISIS DE CICLO DE VIDA (ACV) DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Cartagena	14-16/09/2020	30
DECLARACIÓN AMBIENTAL DE PRODUCTO BASADA EN EL ANÁLISIS DE CICLO DE VIDA (ACV) DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Alicante	21-23/10/2020	30

KSK

Name of the course/training	Venue	Date/Period	Number of students
Teachers of vocational subjects	Pučičća	April 2021	8

RoGBC

Name of the course/training	Venue	Date/Period	Number of students
OBJECTIVES AND RESULTS OF BIMSTONE PROJECT	BIM & LCA Workshop of new interactive BIM-learning methods applied to sector of Stone products	07/11/2019	25
BIM INSTRUMENTS IN-BETWEEN THE CREATIVE AND STANDARDIZES DESIGN	International Session of Scientific Communications FAI2019	08/11/2018	65
ABORDĂRI DE PROIECTARE PENTRU CLĂDIRI SUSTENABILE ÎN ROMÂNIA (DESIGN APPROACHES FOR SUSTAINABLE BUILDINGS IN ROMANIA)	International Conference EURO-Conferinte	14/05/2019	200

	2019		
SUSTENABILITATE PRIN BIM (SUSTAINABILITY WITH BIM)	International Conference BIMCON2019	23/05/2019	95
LIFE CYCLE FOR SUSTAINABLE DESIGN	Architectural Eco-Technology (Course within Ion Mincu University of Architecture and Urbanism, Bucharest)	25/05/2019	92
GREEN DESIGN PRINCIPLES	"Green Building Professional" - Certification & Training Program	27/03/2020	15
GREEN DESIGN PRINCIPLES	"Green Building Professional" - Certification & Training Program	30/10/2020	20
RESEARCH FOR SUSTAINABLE USE OF BIM INSTRUMENTS	International Conference - Pandemic Interior Architecture	04/12/2021	65
GREEN DESIGN PRINCIPLES	"Green Building Professional" - Certification & Training Program	26/03/2021	15

3.2. OTHER EVENTS

Table 3.2.1. Other events (workshops, meetings, seminars, etc.) where BIMstone project was shown

DNV

Name of the event	Venue	Date/Period	Number of attendants
DNV Member Meeting	Cologne (Germany)	06/07/2019	40
Natural Stone Seminar "Paving and slab coverings made of natural stone"	Wuerzburg (Germany)	10/12/2019	21
Natural Stone Workshop	Wuerzburg (Germany)	13/11/2019	7
Natural Stone Workshop	Wuerzburg (Germany)	06/11/2018	9



DNV Member Meeting (Online)	Wuerzburg (Germany)	06/11/2020	32
DNV Member Meeting	Wuerzburg (Germany)	31/07/2021	26

COAMU

Name of the event	Venue	Date/Period	Number of attendants
COAMU General Assembly	Murcia	12/2019-2020-2021	>100
Fair "Week of quality"	Murcia	8-10/04/2019	>2500
Workgroup organized by Promotion Counseling of the Region of Murcia	Murcia	09/2019	10

CTM

Name of the event	Venue	Date/Period	Number of attendants
APLICACIÓN PRÁCTICA DE NUEVAS TECNOLOGÍAS BIM EN LA PRESCRIPCIÓN TÉCNICA DEL IMPACTO AMBIENTAL DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Alicante – Murcia - Cartagena	November 2020	30
DECLARACIÓN AMBIENTAL DE PRODUCTO BASADA EN EL ANÁLISIS DE CICLO DE VIDA (ACV) DE PRODUCTOS Y SISTEMAS CONSTRUCTIVOS	Alicante – Murcia - Cartagena	September 2020	30
Foro Contract Mediterráneo	Murcia	May 2019	>100
Marmmomac	Verona	September 2019	>2500
1st Transnational Meeting of WinSTONE project	Cehegin	November 2019	12
1st Transnational Meeting of CircularBIM project	Alicante	December 2019	11
1st Transnational Meeting of BIMHealth project	Cehegin	December 2019	22
1st Transnational Project Meeting of BKStone project	Tirana	February 2020	35
CEVISAMA	Valencia	February 2020	>200

KSK

Name of the event	Venue	Date/Period	Number of attendants
Erasmus days	Pučišća	16/10/2020	35

RoGBC

Name of the event	Venue	Date/Period	Number of attendants
2nd Transnational Meeting of UrbanBIM project	Bucharest (Romania)	27/11/2018	12
2nd Transnational Meeting of UrbanBIM project	Sevilla (Spain)	16/05/2019	13
1st Transnational Meeting of CircularBIM project	Alicante (Spain)	02/12/2019	11

4. BEYOND THE END OF THE PROJECT

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

Table 4.1.1. Courses or trainings where BIMstone project results will be shown

Name of the course/training	Venue	Date/Period	Number of students
Ciclo Rehabilitación de Edificios, Regeneración Urbana y Gestión y tramitación de ayudas	Murcia – Online	2021	>25
Applied computers - BIMstone-introduction	Klesarska škola, Pučića	April 2022 - continue yearly	12
High school for stonemasons - specialist for carving and stoneplacing	Klesarska škola, Pučića	September 2024.-May 2025	15
High school for stonemasons - specialist for carving and stoneplacing	Klesarska škola, Pučića	September 2025.	35
LIFE CYCLE FOR SUSTAINABLE DESIGN	Architectural Eco-Technology (Course within Ion Mincu University of Architecture and Urbanism, Bucharest)	2021/2022	-
GREEN DESIGN PRINCIPLES	"Green Building Professional" - Certification & Training Program	24/09/2021	-



5. QUESTIONNAIRE

For the pedagogical and technical evaluation of the products of the BIMstone project, a survey was distributed to obtain the opinion of the educational and technical experts about training materials. This form contains questions about:

- Training materials.
- Online Educational Resource
- Interactive BIMtool.

It also includes a generic question for experts to propose the comments they consider necessary to improve the quality of all BIMstone project products.

Below is the questionnaire carried out for the technical and pedagogical evaluation of this project and its products.



The screenshot shows a questionnaire form with the following content:

- Header: BIMSTONE logo and Erasmus+ Programme of the European Union logo.
- Title: Feedback questionnaire of BIMstone training materials
- Project code: 2018-1-DE02-KA202-005146
- Requirement: *Obligatorio
- Question 1: Professional profile: *
 - Learning (teacher, research, etc.)
 - Construction or stone sector, IT developer, etc.
 - Both.
- Question 2: 1. Overall, how satisfied were you with the training materials? *
 - Scale: 1 (Not satisfied at all) to 5 (Very satisfied)
 - Options: 1, 2, 3, 4, 5



2. To what extent do you agree or disagree with the following statements? *

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
Training materials' contents were of my interest.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel now better informed on various aspects related to the stone sector.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I now better understand the benefits of the BIMstone Multimedia Cards approach.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel that it has helped me to reinforce my knowledge, competences and skills about methods of placing natural stone products.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



3. To what extent do the Open Educational Resource (OER) show the following attributes? *

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The contents of the OER are clearly understandable and motivating.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The OER is well-organised and well-structured.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The OER is user-friendly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall, the OER is adequate for the self-learning of LCA, natural stone products and described placement methods.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



4. Do you have any further comments and recommendations on the BIMstone Multimedia Cards? What could have been done better? *

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The stage relates to the product and its method of placement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The design of the working environment is detailed enough to understand the situation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The animation is enough to be able to carry out the works described in it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The development of the content is correct for attract and paying attention.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The contents of the animations are useful.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The duration of the animations is adequate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



5. Do you have any further comments and recommendations on the Interactive BIM Tool? What could have been done better? *

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The position of the elements (buttons, menus, images, etc.) follow a logical order in the BIM Tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The operating speed of the BIM Tool is correct, considering the type of task required.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The message system helps the user to develop his tasks and orientate himself within the BIM Tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The colours used facilitate the user's understanding of the contents and structural elements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The BIM Tool is suitable for users and their degree of experience.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LCA data are easy to find in the BIM Tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Please, tell us what kind of improvement you can suggest:

Tu respuesta _____



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Enviar



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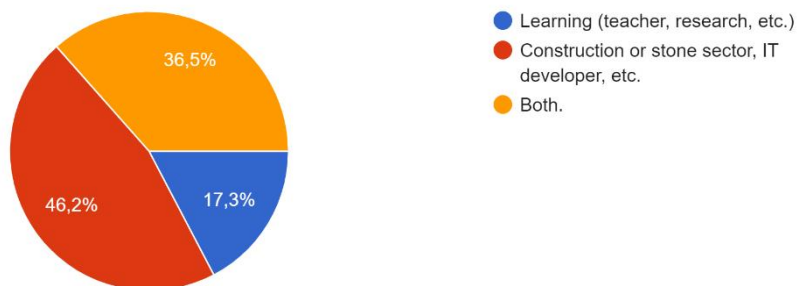
"The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein".



5.1 QUESTIONNAIRE RESULTS

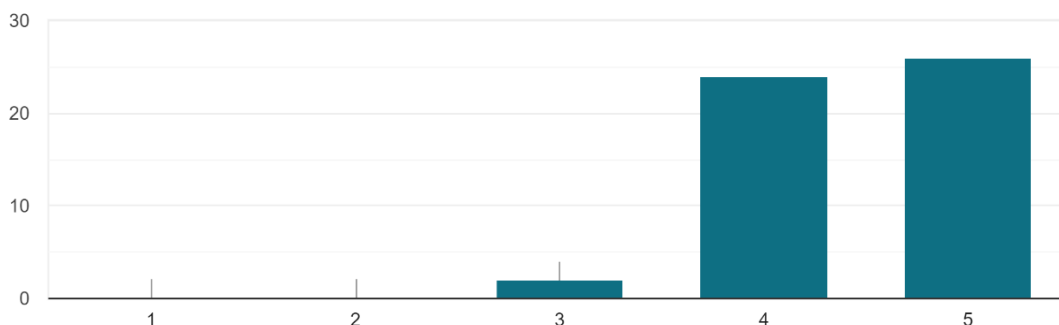
Professional profile:

52 respuestas

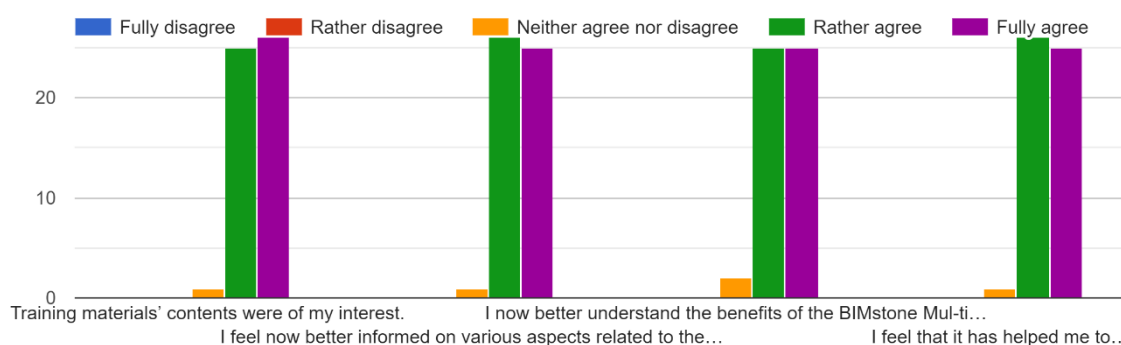


1. Overall, how satisfied were you with the training materials?

52 respuestas

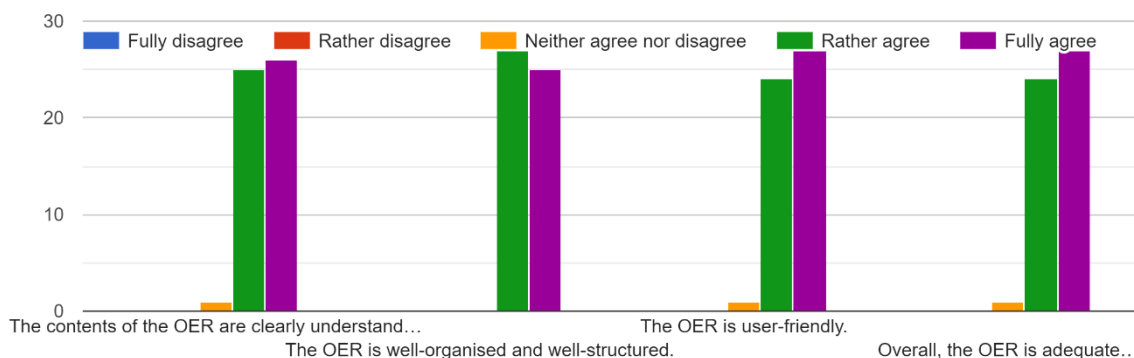


2. To what extent do you agree or disagree with the following statements?

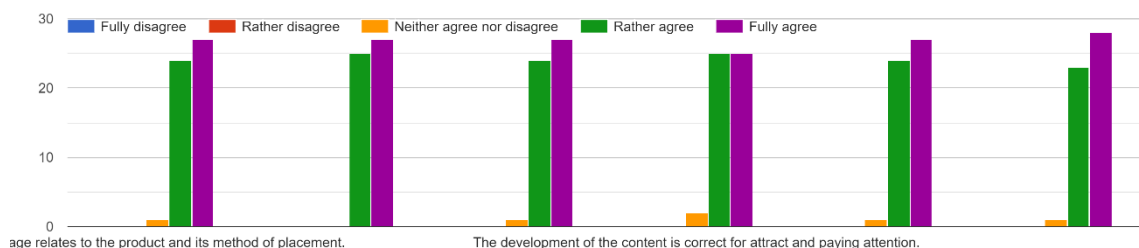




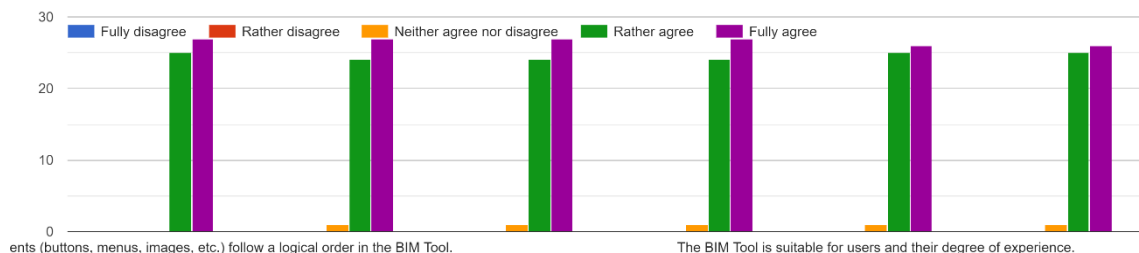
3. To what extent do the Open Educational Resource (OER) show the following attributes?



4. Do you have any further comments and recommendations on the BIMstone Multimedia Cards? What could have been done better?



5. Do you have any further comments and recommendations on the Interactive BIM Tool? What could have been done better?





Please, tell us what kind of improvement you can suggest:

10 respuestas

I didn't find the material interesting, I would have liked it to have been more focused on the stone sector.
none
-
The tool is somewhat complex
Interesting
Nothing, very good material
It is too generic, too much content and does not go into depth.
In my opinion, animations should be interactive. This would make it more entertaining.
None, it's fine as it is
NOTHING

5.2 CONCLUSIONS

In general, the evaluation of the project by the technical and educational experts was really positive.

Despite the comments mentioned in the previous section, all the experts considered that the methodology of LCA calculation for stone products and placement methods selected was carried out correctly and in line with reality, as well as the training materials and the BIMstone tool are innovative materials that are in line with the objectives set out in the project and are therefore very useful.

On the other hand, they appreciated the need for this type of training material in order to explain and teach how to proceed towards a more sustainable use of stone products. In this sense, they commented that they are very useful as training material for future professionals and some who currently need to renew their training to adjust to the new environmental requirements.