

Zadatak O2/A3-A4

TEHNIČKI I PEDAGOŠKI TEST I IMPLEMENTACIJA IT POBOLJŠANJA

*O2. BIMstone MULTIMEDIJALNI MATERIJALI. NOVE
INTERAKTIVNE METODE UČENJA BIM*



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1. OPIS ZADATKA

Ovo izvješće O2/A3-A4 „Pedagoški i tehnički test i implementacija IT poboljšanja BIMstone multimedijских kartica” uključeno je u Intelektualni učinak 2 „BIMstone multimedijски materijali. Nove interaktivne metode učenja BIM” koji se temelji na ICT-u i uključuje 10 multimedijских *flash* kartica temeljenih na BIM tehnologiji i LCA-u u kamenim proizvodima.

Ovo je dostupno bez naplate na web stranici projekta kako bi se koristilo kao pomoćni materijal u brojnim tečajevima iz arhitekture, graditeljstva i baštine koji se predaju u sektoru kamenih proizvoda. BIMstone multimedijске kartice također su dizajnirane i proizvedene za podršku provedbi BIMstone tečaja i OER-a (Otvoreni obrazovni sadržaj) razvijenih u projektu BIMstone.

Povratne informacije dobivene od stručnjaka tijekom tečajeva i događanja bile su vrlo korisne za poboljšanje proizvoda u razvoju, uglavnom proizvodnje BIMstone multimedijских kartica, otvorenog obrazovnog resursa i interaktivnog BIMtool-a te procjene kvalitete tehničkog sadržaja i pedagoškog pristupa.

Beta verzije tih proizvoda pokazane su stručnjacima i nastavnicima kako bi se provjerile i koristile tijekom ili nakon tečajeva. Bilo je potrebno jer se u beta verzijama ispravljaju, kao i ponekad se edukacije provode u objektima gdje nema internetske veze.

Konačno, konzorcij je također zakazao tečajeve, treninge i druga događanja (radionice, sastanke, seminare itd.) nakon završetka projekta kako bi jamčio održivost projekta.

Izrađeno je jedinstveno izvješće u kojem se objedinjuju rezultati pedagoško-tehničkog testiranja kako bi ono bilo korisnije, prema dogovoru članova projektnog konzorcija.

2. KONZULTIRANI STRUČNJACI I SUBJEKTI NA PROJEKTU BIMstone

2.1. KONZULTIRANI TEHNIČKI STRUČNJACI

Tablica 2.1.1. Konzultirani tehnički stručnjaci

DNV

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
softverski inženjer	net-n-net gmbh
web i print dizajner, marketinški stručnjak	Allegria design
stručnjak za web stranice	webgo GmbH

COAMU

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
Arhitekt	Consejo Superior de Colegios de Arquitectos de España CSCAE
Arhitekt	Colegio Oficial de Arquitectos de Extremadura COADE
Arhitekt	Colegio Oficial de Arquitectos de Castilla La Mancha COACM
Arhitekt	Colegio Oficial de Aparejadores y Arquitectos Técnicos de LA Región de Murcia COATIEMU
Inženjer	Colegio Oficial de Ingenieros Industriales de la Región de Murcia COIIRM
Inženjer	Centro Tecnológico de la Energía y el medio Ambiente de la Región de Murcia CETENMA
Inženjer	Centro Tecnológico del Mueble y la Madera de la Región de Murcia CETEM
Inženjer	Centro Tecnológico de la Construcción de la Región de Murcia CTON
Građevinar	Fundación Laboral de la Construcción de la Región de Murcia



CTM

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
Inženjer	CertiMaC soc.cons. a r.l.
Arhitekt	Cype Soft SL
Arhitekt	Cype Soft SL
Arhitekt	Cype Soft SL
Inženjer	DELTA-MPIS
Inženjer	Datacomp z.o.o
Inženjer	Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)
Arhitekt	Colegio Oficial de Aparejadores y Arquitectos Técnicos de Sevilla (COAAT)

KSK

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
Arhitekt	Tehničko veleučilište u Zagrebu
Građevinar	Honorarno

RoGBC

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
Arhitekt	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bukurešt, Rumunjska
Arhitekt	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bukurešt, Rumunjska
Arhitekt	National Order of Architects (OAR)

2.2. KONZULTIRANI STRUČNJACI IZ PODRUČJA OBRAZOVANJA

Tablica 2.2.1. Obrazovni stručnjaci

DNV

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
ravnatelj	Stonemason school Königslutter
viši profesor	Professional school Eichstätt
ravnatelj	Master school Aschaffenburg
ravnatelj	Professional school Munique
urednik	Natural stone Magazine (Naturstein Magazin)
izvršni direktor	Association of German Stonemasons (Bundesverband Deutscher Steinmetze)
glavni tajnik	European & International Federation of Natural Stone Industries (EUROROC)

COAMU

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
inženjer građevine - arhitekt	Universidad Politécnica de Cartagena
arhitekt	Escuela de Arquitectura e Ingeniería de la Edificación UPCT
arhitekt	Escuela de Arquitectura e Ingeniería de la Edificación UCAM
projektant	Escuela Superior de Diseño de la Región de Murcia
prosvjetni radnik	Consejería de Educación, Juventud y Deportes de la Comunidad Autónoma de la Región de Murcia



CTM

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
profesor	Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)
arhitekt	Cype Soft SL
inženjer građevine	Universidade do Minho
profesor građevine	Lycee Des Metiers Leonard De Vinci
profesor građevine	SCUOLA EDILE - CPT Centro per la formazione e la sicurezza edile di Padova
inženjer građevine	National Technical University of Athens (NTUA)
inženjer građeviner	Universidad de Sevilla
inženjer građevine	Universitatea Transilvania din Brasov
arhitekt	Universidad Católica de San Antonio
inženjer građevine	Warsaw University of Technology

KSK

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
arhitekt	Tehničko veleučilište u Zagrebu

RoGBC

Zanimanje	Naziv organizacije u kojoj je on/ona zaposlen/a ili radi honorarno, ako je primjenjivo
arhitekt / predavač	Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest, Romania
inženjer građevine	Universitatea Transilvania din Brasov

2.3. KONZULTIRANE ORGANIZACIJE/SUBJEKTI

Tablica 2.3.1. Konzultirane organizacije/subjekti

DNV

Naziv	Kontakt (e-mail ili broj telefona)	Vrsta organizacije (SME, LE, VET, sveučilište i drugo)	Područje (industrija, rudarstvo, istraživanje i drugo)
Euroroc	<i>email/telefon/uživo</i>	industrija	industrija
Stonemason school Königslutter	<i>e-mail</i>	sveučilište	obrazovanje
Professional school Eichstätt	<i>e-mail</i>	sveučilište	obrazovanje
Master school Aschaffenburg	<i>e-mail</i>	sveučilište	obrazovanje
Professional school Munique	<i>e-mail</i>	sveučilište	obrazovanje
Natural stone Magazine (Naturstein Magazin)	<i>e-mail</i>	tisak	obrazovanje

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Naziv	Kontakt (email ili broj telefona)	Vrsta organizacije (SME, LE, VET, sveučilište i drugo)	Područje (industrija, rudarstvo, istraživanje i drugo)
Confederación Regional de Organizaciones Empresariales de Murcia CROEM	<i>privatni e-mail</i>	udruženje trgovačkih društava	poslovanje
Consejería de Fomento e Infraestructura de la Comunidad Autónoma de la Región de Murcia	<i>privatni e-mail</i>	javna korporacija	urbanizam
Concejalía de Urbanismo, Medio Ambiente y Huerta	<i>privatni e-mail</i>	javna korporacija	urbanizam
Colegio Oficial de Aparejadores y Arquitectos Técnicos de LA Región de Murcia COATIEMU	<i>privatni e-mail</i>	udruga arhitekata	arhitektura
BIMMATE	<i>privatni e-mail</i>	udruga arhitekata	udruženje arhitekata i inženjera

CTM

Naziv	Kontakt (e-mail ili broj telefona)	Vrsta organizacije (SME, LE, VET, sveučilište i drugo)	Područje (industrija, rudarstvo, istraživanje i drugo)
Centro Provinciale Di Istruzione Professionale Edile (C.P.I.P.E.)	<i>privatni e-mail</i>	VET centar	Građevina
Lycee Des Metiers Leonard De Vinci	<i>privatni e-mail</i>	VET centar	građevina
Asesoramiento, Tecnología e Investigación (ATIN)	<i>privatni e-mail</i>	tehničko savjetovanje	tehnologija
Colegio Oficial de Aparejadores y Arquitectos Técnicos de sevilla (COAAT)	<i>privatni e-mail</i>	udruženje arhitekata	arhitektura
Department of Technical Sciences, University of Bucharest	<i>privatni e-mail</i>	sveučilište	arhitektura
BZB1	<i>privatni e-mail</i>	VET centar	građevina

KSK

Naziv	Kontakt (e-mail ili broj telefona)	Vrsta organizacije (SME, LE, VET, sveučilište i drugo)	Područje (industrija, rudarstvo, istraživanje i drugo)
Fakultet građevinarstva, arhitekture i geodezije u Splitu	<i>privatni e-mail</i>	sveučilište	građevina

RoGBC

Name	Kontakt (e-mail ili broj telefona)	Vrsta organizacije (SME, LE, VET, sveučilište i drugo)	Područje (industrija, rudarstvo, istraživanje i drugo)
Colegio Oficial de Aparejadores y Arquitectos Técnicos de sevilla (COAAT)	<i>privatni e-mail</i>	udruženje arhitekata	arhitektura
Department of Technical Sciences, Ion Mincu University of Architecture and Urban Planning (UAUIM), Bucharest	<i>privatni e-mail</i>	sveučilište	arhitektura
PATRONATUL PRODUCATORILOR DE AGREGATE MINERALE	<i>privatni e-mail</i>	NGO	inženjering

3. TIJEKOM PROJEKTA. STRUČNJACI, SUBJEKTI, TEČAJEVI I DRUGA DOGAĐANJA NA KOJIMA SE KONZULTIRALO O BIMstone MULTIMEDIJALNIM MATERIJALIMA, BIMstone APLIKACIJI ZA UČENJE I OER-U

3.1. TEČAJEVI I OBUKE

Tablica 3.1.1. Tečajevi ili obuke na kojima je prikazan BIMstone projekt

DNV

Ime tečaja/obuke	Mjesto održavanja	Datum/razdoblje	Broj studenata
Seminar o prirodnom kamenu „Popločavanje i obloge od prirodnog kamena“	Würzburg (Njemačka)	10. 12. 2019.	21
Kompetentni centar za prirodni kamen, Würzburg // SEMINAR ERASMUS PROGRAMA	Würzburg (Njemačka)	17. 9. 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-Conferinta 2019	14/05/2019	200
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. OSTALA DOGAĐANJA

Tablica 3.2.1. Ostala događanja (radionice, sastanci, seminari i drugo) na kojima je prikazan projekt BIMstone

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. NAKON ZAVRŠETKA PROJEKTA

Partneri projekta koristit će konačnu verziju BIMstone Multimedia Materials i OER u svojim tečajevima nakon završetka projekta. U sljedećim tablicama prikazani su neki planirani primjeri.

Tablica 4.1.1. Tečajevi ili obuke u kojima će biti prikazani rezultati projekta BIMstone

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	-
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5. UPITNIK

Za pedagošku i tehničku evaluaciju proizvoda BIMstone projekta objavljena je anketa kako bi se dobilo mišljenje obrazovnih i tehničkih stručnjaka o materijalima za obuku. Ovaj obrazac sadrži pitanja o:

- Materijalima za obuku
- Online obrazovnom sadržaju
- Interaktivnom BIMtoolu

Također, uključuje generičko pitanje za stručnjake - komentare u kojima će iznijeti svoje mišljenje o mogućnosti poboljšanja kvalitete svih BIMstone projektnih proizvoda. U nastavku se nalazi upitnik proveden za tehničku i pedagošku evaluaciju ovog projekta i njegovih



The screenshot shows a feedback questionnaire titled "Feedback questionnaire of BIMstone training materials". It includes the BIMSTONE logo and Erasmus+ logo. The project code is 2018-1-DE02-KA202-005146. The questionnaire is mandatory (*Obligatorio). It asks for the professional profile of the respondent, with options: Learning (teacher, research, etc.), Construction or stone sector, IT developer, etc., and Both. The first question is "1. Overall, how satisfied were you with the training materials?*" with a 5-point Likert scale from "Not satisfied at all" to "Very satisfied".

proizvoda.



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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COAMU



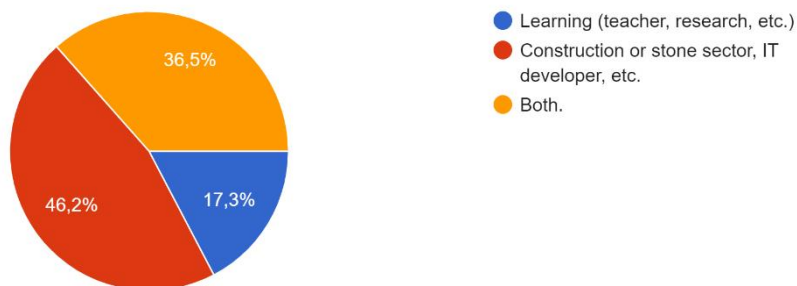
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5.1 REZULTATI UPITNIKA

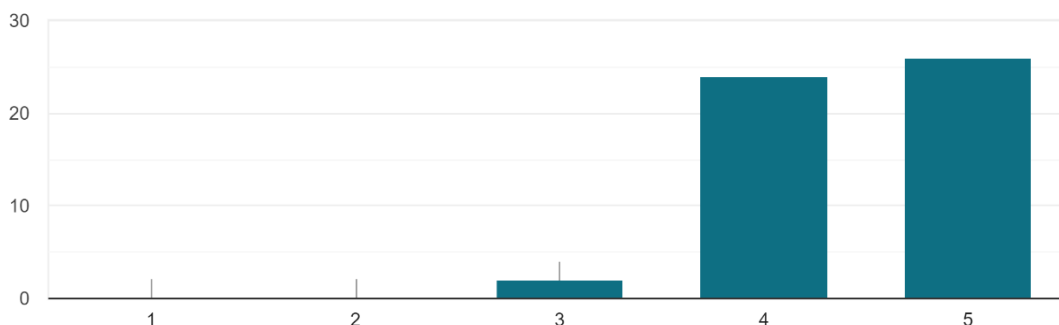
Professional profile:

52 respuestas

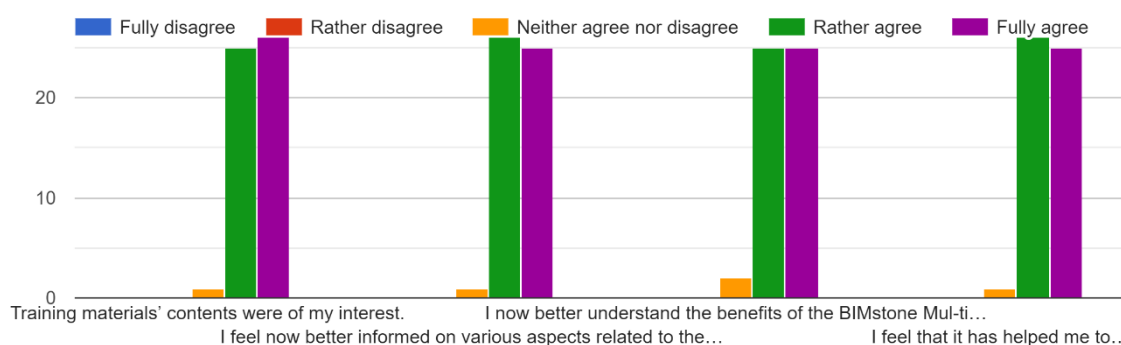


1. Overall, how satisfied were you with the training materials?

52 respuestas

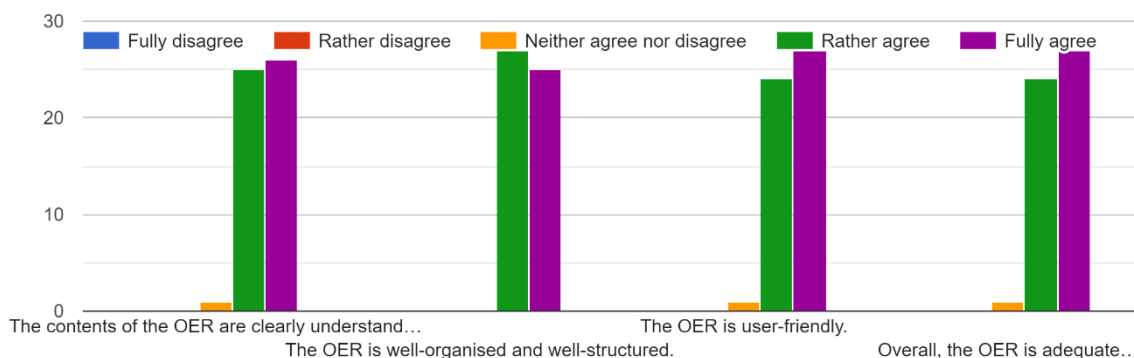


2. To what extent do you agree or disagree with the following statements?

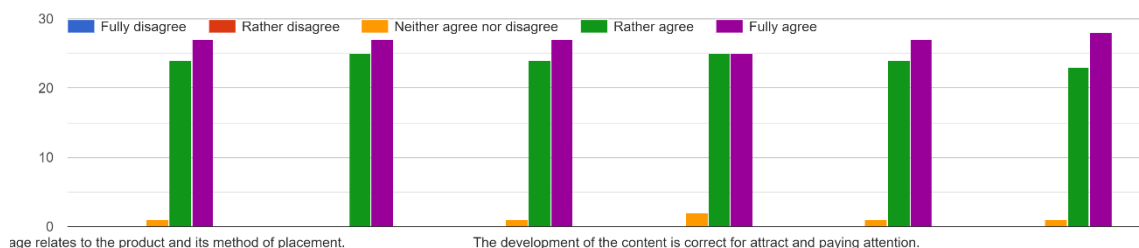




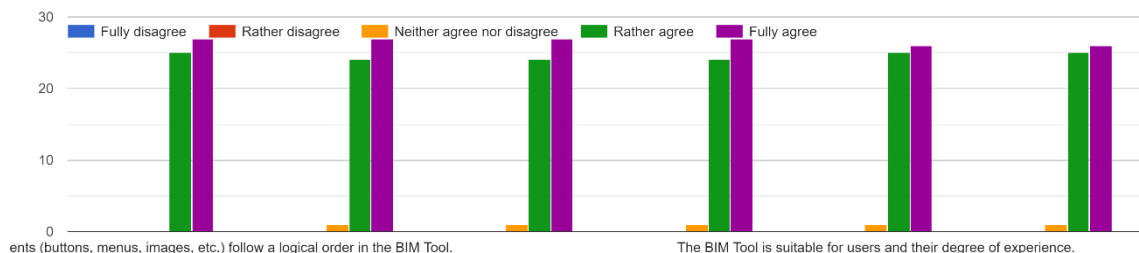
3. To what extent do the Open Educational Resource (OER) show the following attributes?



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 ZAKLJUČAK

Općenito, evaluacija projekta od strane tehničkih i obrazovnih stručnjaka bila je zaista pozitivna.

Unatoč komentarima navedenim u prethodnom odjeljku, svi stručnjaci smatraju da je metodologija LCA izračuna za kamene proizvode i odabrane metode postavljanja provedena ispravno i u skladu s realnom situacijom, kao i materijali za obuku i BIMstone inovativni materijali koji su u skladu s ciljevima postavljenim u projektu i stoga su vrlo korisni.

S druge strane, cijenili su potrebu za ovakvom vrstom materijala za obuku kako bi se objasnilo i poučilo kako nastaviti prema održivijoj upotrebi kamenih proizvoda. U tom smislu komentirali su kako su oni vrlo korisni kao materijal za obuku budućih stručnjaka i onih koji trenutno trebaju obnoviti obuku kako bi se prilagodili novim zahtjevima okoliša.