

WP5-A10. Izvješće vanjskog stručnjaka o rezultatima WP5.



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Transilvania
University
of Brasov





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1. UVOD

Ovaj dokument prikazuje rezultate aktivnosti WP5-A10 pod nazivom *"Vanjski stručni izvještaj o rezultatima WP5"*, koja je dio Radnog paketa 5 (WP5) projekta *RockChain*. WP5 je bio posvećen konsolidaciji, objavljivanju i implementaciji *RockChain* Open Educational Resource (OER), s ciljem osiguranja da su rezultati projekta pristupačni, jednostavni za korištenje i spremni za usvajanje od strane trenera, polaznika i industrijskih dionika u svim partnerskim zemljama.

DNV je angažirao stručnjaka iz njemačke tvrtke za prirodni kamen kako bi procijenio sadržaj WP5. Pregled se usredotočio na to jesu li WP5 rezultati koherentni, profesionalno strukturirani i praktično primjenjivi u stvarnim kontekstima obuke — osobito u obrazovnim i radnim okruženjima, gdje se korisnički profili, digitalna spremnost i dostupnost vremena mogu znatno razlikovati. Izvješće je saželo nalaze neovisne pedagoške i na implementaciju usmjerene evaluacije.

Povratne informacije prikupljene su putem strukturiranog upitnika, osmišljenog za potvrdu ukupne kvalitete, identificiranje eventualnih nedostataka ili prepreka za usvajanje te predlaganje praktičnih poboljšanja za poboljšanje pristupačnosti, prenosivosti i dugoročne održivosti *RockChain* OER-a.

2. EVALUACIJSKI UPITNIK

Upitnik korišten za vanjski pregled WP5 bio je sljedeći:

RockChain. Evaluation of WP5: RockChain Open Educational Resource (OER).

**TRANSVERSAL TECHNOLOGICAL SKILLS FOR THE ORNAMENTAL ROCK INDUSTRY
FOCUSING ON THE
APPLICABILITY OF BLOCKCHAIN IN A CIRCULAR ECONOMY**

REFERENCE: 2023-1-DE02-KA220-ADU-000166863

mcarlitos.146@gmail.com [Cambiar de cuenta](#)

 No compartido

* Indica que la pregunta es obligatoria



ROCKCHAIN



Organisation: *

- ☐ Deutscher Naturwerkstein-Verband e.V. (DNV)
- ☐ Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM)
- ☐ Universitatea Transilvania din Brasov (UNITbv)
- ☐ Klesarska skola (KSK)

1. Overall, how satisfied were you with the management and development of the WP5 (Work Package 5): RockChain Open Educational Resource (OER)?

	1	2	3	4	5	
Not satisfied at all	☐	☐	☐	☐	☐	Very satisfied

2. OER and web graphic design and project's corporate image. Please rate the following aspects.

Fully
disagree Rather
disagree Neither agree
nor disagree Rather agree Fully agree

The graphic
design of the
Open
Educational
Resources
(OER) and the
corporate
image of the
project was
professional
and coherent.

☐ ☐ ☐ ☐ ☐

The visual
identity of the
project
remained
consistent
throughout the
materials
created.

☐ ☐ ☐ ☐ ☐

The website
design was
attractive and
facilitated
navigation for
users.

☐ ☐ ☐ ☐ ☐

3. IT production of RockChain Open Educational Resource. Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The computer production of the Open Educational Resources (OER) was carried out with high technical quality.

☐ ☐ ☐ ☐ ☐

The content of the OER was developed using technological tools appropriate for the project.

☐ ☐ ☐ ☐ ☐

The digital educational materials were accessible and easy to use.

☐ ☐ ☐ ☐ ☐

The production complied with the deadlines and standards established in the project.

☐ ☐ ☐ ☐ ☐

4. Pilot RockChain Course implementation for entrepreneurs and professionals over 45 years old in the ornamental rock industry. Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The implementation of the course was successful and achieved the objectives set.

☐ ☐ ☐ ☐ ☐

The methodology used in the pilot course in Athens was effective and adapted to local needs.

☐ ☐ ☐ ☐ ☐

The participants of the pilot course provided positive feedback on the content.

☐ ☐ ☐ ☐ ☐

The pilot course helped to identify possible areas for improvement in the training materials.

☐ ☐ ☐ ☐ ☐

5. Pilot RockChain Course implementation for VET teachers or in continuous training courses over 45 years old. Please rate the following aspects.

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The implementation of the course was successful and achieved the objectives set.	☐	☐	☐	☐	☐
The methodology used in the pilot course in Athens was effective and adapted to local needs.	☐	☐	☐	☐	☐
The participants of the pilot course provided positive feedback on the content.	☐	☐	☐	☐	☐
The pilot course helped to identify possible areas for improvement in the training materials.	☐	☐	☐	☐	☐

6. Pilot RockChain Course implementation for adults over 45 years old from VET students or continuous training courses related to ornamental rock industry. Please rate the following aspects.

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The implementation of the course was successful and achieved the objectives set.	☐	☐	☐	☐	☐
The methodology used in the pilot course in Athens was effective and adapted to local needs.	☐	☐	☐	☐	☐
The participants of the pilot course provided positive feedback on the content.	☐	☐	☐	☐	☐
The pilot course helped to identify possible areas for improvement in the training materials.	☐	☐	☐	☐	☐

7. Pilot RockChain Course implementation for adults over 45 years old of HE students and teachers related to mining. Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The implementation of the course was successful and achieved the objectives set.

☐ ☐ ☐ ☐ ☐

The methodology used in the pilot course in Athens was effective and adapted to local needs.

☐ ☐ ☐ ☐ ☐

The participants of the pilot course provided positive feedback on the content.

☐ ☐ ☐ ☐ ☐

The pilot course helped to identify possible areas for improvement in the training materials.

☐ ☐ ☐ ☐ ☐

8. Environment test and technical improvements. Please rate the following aspects.

	Fully disagree	Rather disagree	Neither agree nor disagree	Rather agree	Fully agree
The environment testing of the pilot courses was comprehensive.	☐	☐	☐	☐	☐
The pilot courses function effectively and reflect the project objectives.	☐	☐	☐	☐	☐
The results of testing and improvements were useful for enhancing the learning experience at the European level.	☐	☐	☐	☐	☐

9. Translations of the OER in all partners' languages. Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The quality of the translations facilitated the understanding of the results in all participating countries.

☐ ☐ ☐ ☐ ☐

All translations were done in a timely manner and within the established deadlines.

☐ ☐ ☐ ☐ ☐

The translation of the results contributed to better communication between the project partners.

☐ ☐ ☐ ☐ ☐

10. Final International Seminar in Würzburg (Germany). Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The Final International Seminar in Würzburg was organised effectively.

☐
☐
☐
☐
☐

The topics addressed at the seminar were relevant and aligned with the project objectives.

☐
☐
☐
☐
☐

The organisation and logistics of the seminar were adequate to encourage participation.

☐
☐
☐
☐
☐

11. External expert report of WP5 Results. Please rate the following aspects.

Fully disagree Rather disagree Neither agree nor disagree Rather agree Fully agree

The external expert's report on the results of WP5 provided an objective and detailed assessment.

☐ ☐ ☐ ☐ ☐

The recommendations of the external expert were clear and applicable for the improvement of the project.

☐ ☐ ☐ ☐ ☐

The report highlighted strengths and areas for improvement in the results obtained in WP5.

☐ ☐ ☐ ☐ ☐

The external evaluation was useful to validate the quality and effectiveness of the WP5 results.

☐ ☐ ☐ ☐ ☐



12. Remarks. Please add any comments you consider appropriate about the tasks developed in this WP3.

Tu respuesta

13. Please, tell us what kind of improvement you can suggest for the WP3:

Tu respuesta



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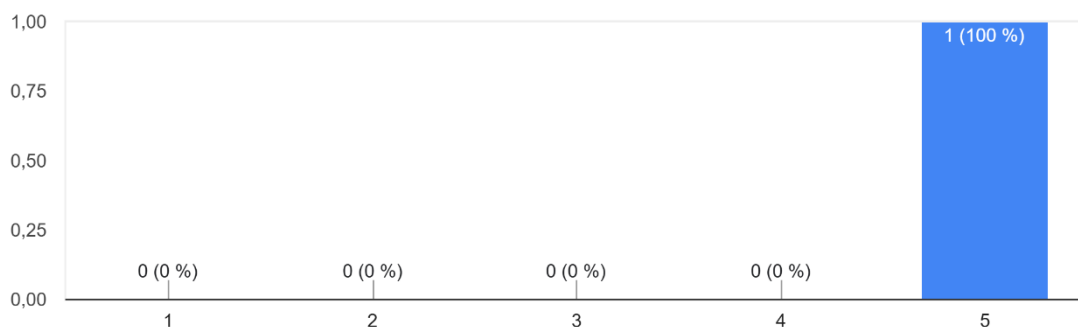
[Borrar formulario](#)

3. ODGOVORI

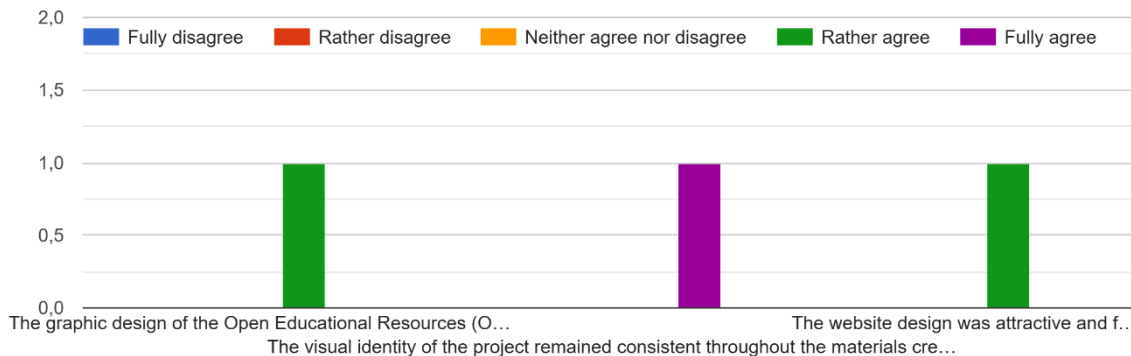
Odgovori ankete za WP5 prikazani su u nastavku (tiskani ekrani pisanih odgovora i grafički prikaz ocjena):

1. Overall, how satisfied were you with the management and development of the WP5 (Work Package 5): RockChain Open Educational Resource (OER)?

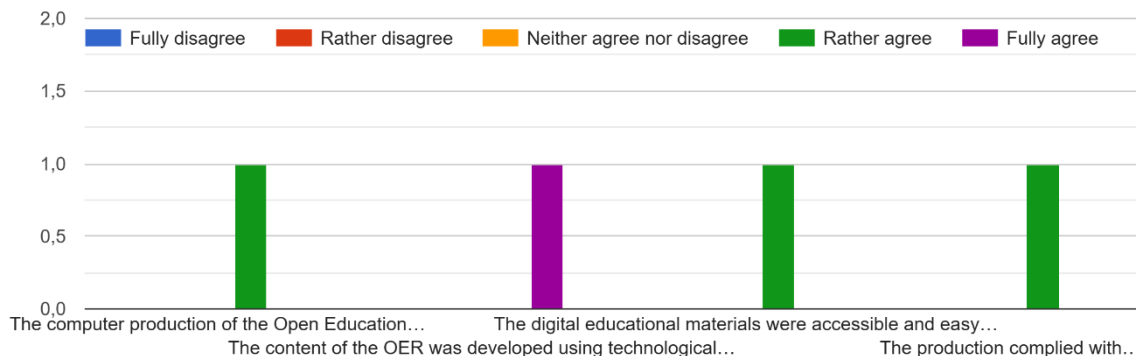
1 respuesta



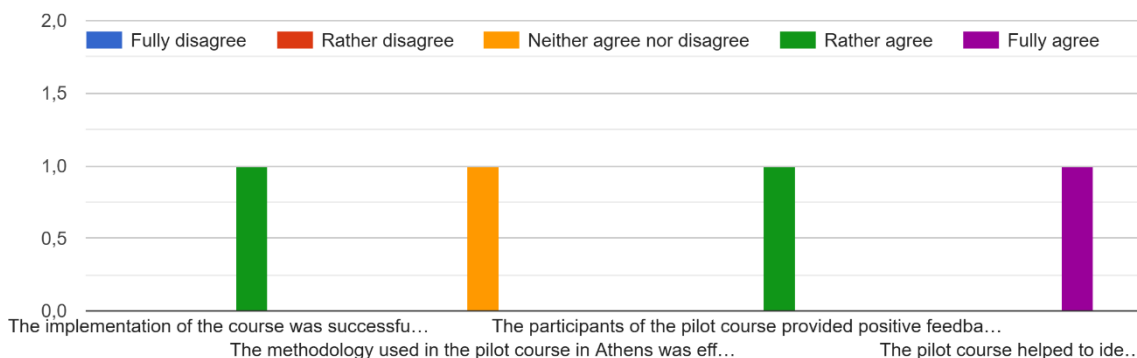
2. OER and web graphic design and project's corporate image. Please rate the following aspects.



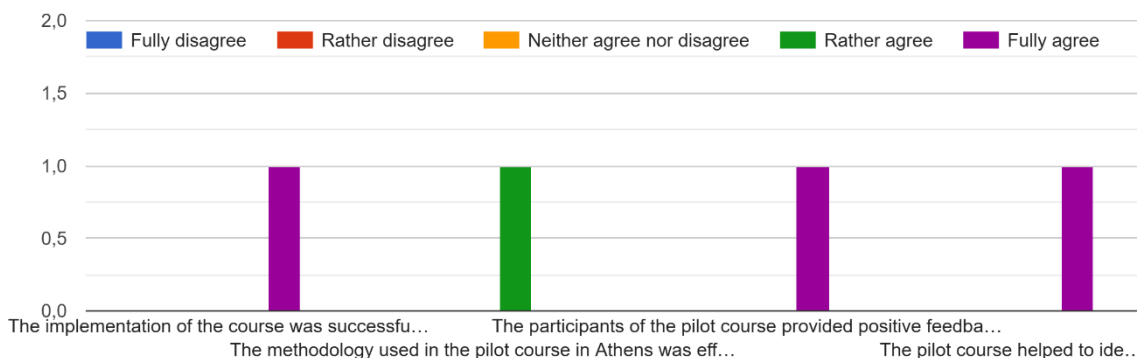
3. IT production of RockChain Open Educational Resource. Please rate the following aspects.



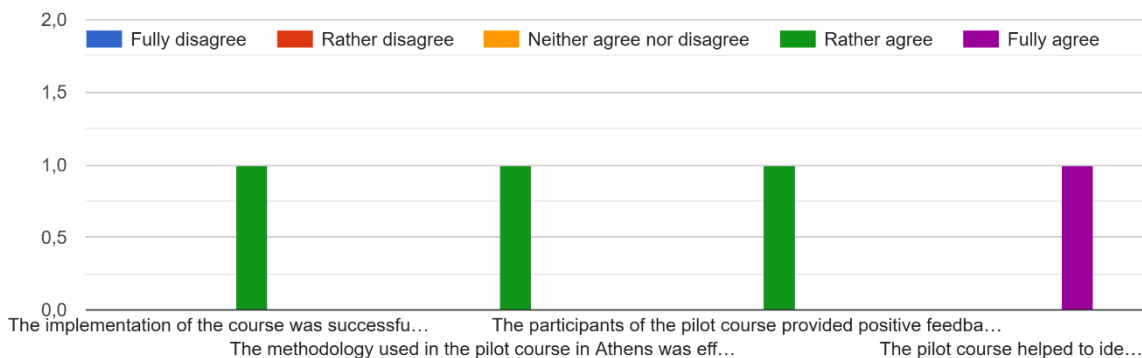
4. Pilot RockChain Course implementation for entrepreneurs and professionals over 45 years old in the ornamental rock industry. Please rate the following aspects.



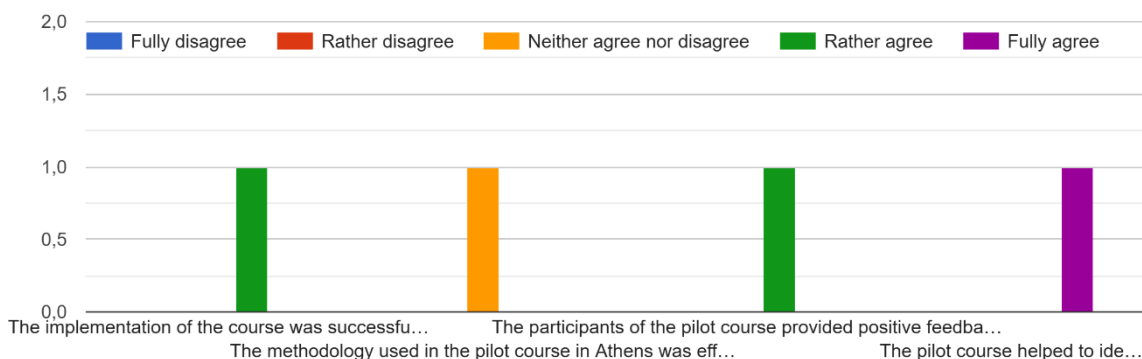
5. Pilot RockChain Course implementation for VET teachers or in continuous training courses over 45 years old. Please rate the following aspects.



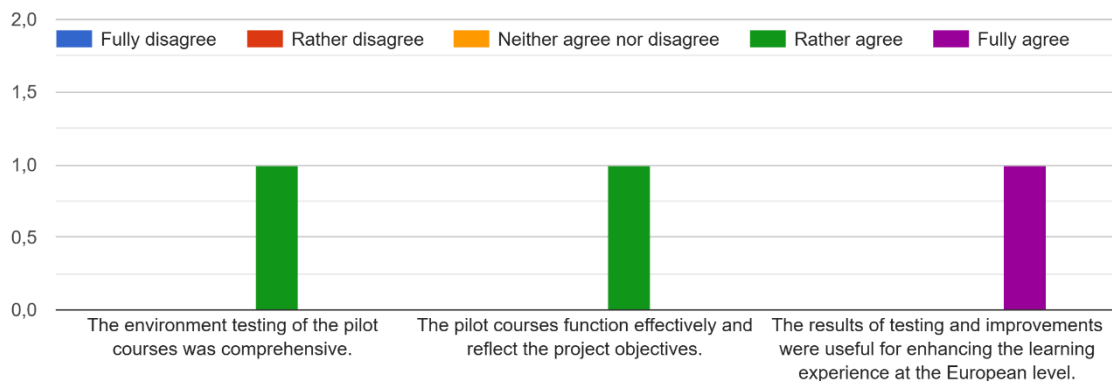
6. Pilot RockChain Course implementation for adults over 45 years old from VET students or continuous training courses related to ornamental rock industry. Please rate the following aspects.



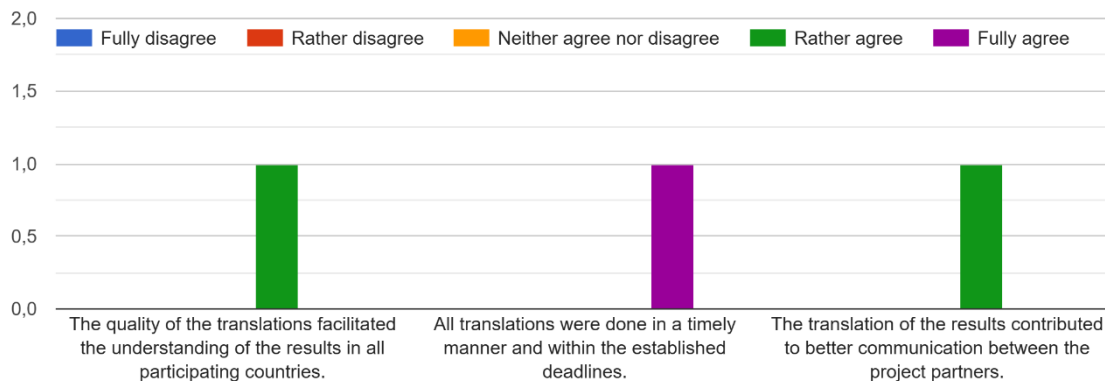
7. Pilot RockChain Course implementation for adults over 45 years old of HE students and teachers related to mining. Please rate the following aspects.



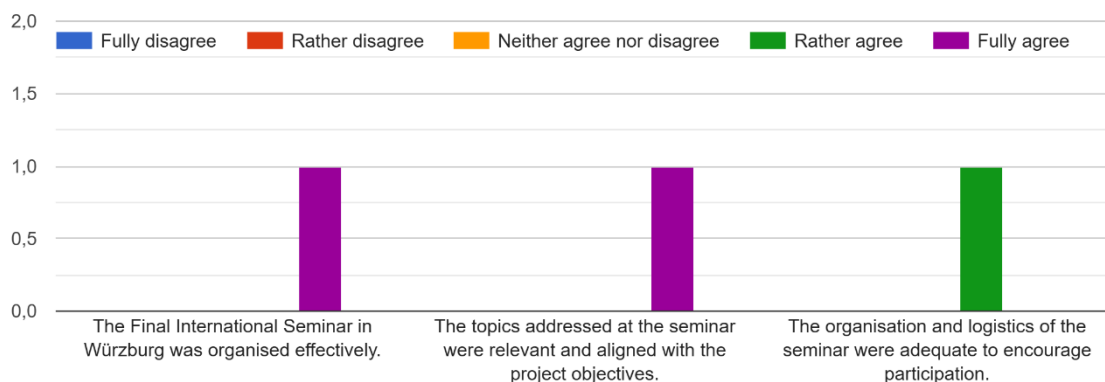
8. Environment test and technical improvements. Please rate the following aspects.



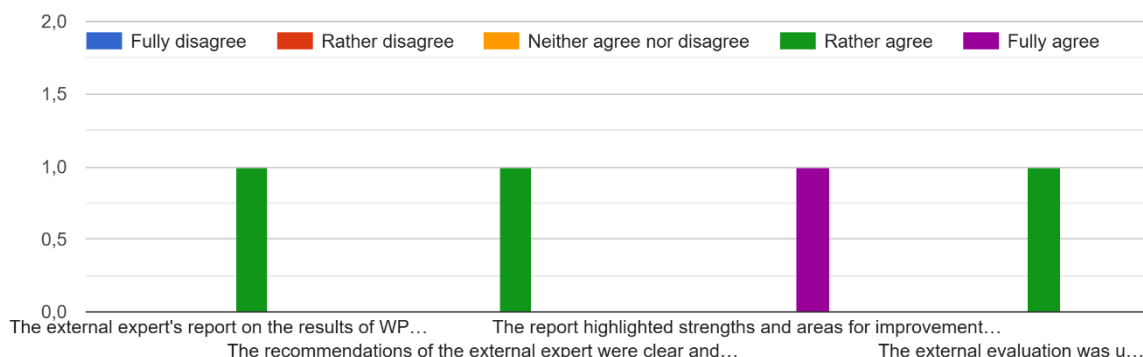
9. Translations of the OER in all partners' languages. Please rate the following aspects.



10. Final International Seminar in Würzburg (Germany). Please rate the following aspects.



11. External expert report of WP5 Results. Please rate the following aspects.



12. Remarks. Please add any comments you consider appropriate about the tasks developed in this WP3.

1 respuesta

WP5 delivers a solid and coherent dissemination and learning ecosystem (website + OER repository + course environment + pilots + final seminar). The strongest point is the combination of structured content with an applied/gamified tool, which helps translate abstract concepts (blockchain/traceability) into practice-oriented learning.

Main limitations are not about "quality of content", but about adoption: onboarding for new users, accessibility for low digital-skill adult learners, and clarity on how trainers should deploy the materials in short sessions. Some questionnaire items appear to contain template inconsistencies (e.g., "Athens", WP3 references), which should be corrected to avoid confusion and to strengthen evidence quality.

13. Please, tell us what kind of improvement you can suggest for the WP3:

1 respuesta

Add a "Start here" guided entry point with recommended learning paths by profile (worker/technician/trainer/manager).

Strengthen accessibility (WCAG-oriented checks, clearer typography hierarchy, mobile-first usability, downloadable quick guides).

Provide trainer-ready assets: session plans (2h/4h/8h), assessment rubrics, and "classroom scripts" for the app exercise.

Improve translation consistency through a shared glossary and cross-review process.

Include analytics/monitoring (basic KPIs of OER usage, course access, completion proxies) to evidence uptake and sustainability.

4. ZAKLJUČCI

Vanjska evaluacija daje ukupnu ocjenu zadovoljstva 4 od 5, što sugerira da WP5 pruža koherentan i prilično zreo sloj RockChain projekta namijenjen javnosti. Radni paket se smatra uspješnim konsolidiranjem jasnog vizualnog identiteta, funkcionalne web prisutnosti, pristupačnog OER okruženja i validiranog procesa implementacije kroz pilot tečajeve i aktivnosti širenja. Sveukupno, WP5 se smatra dovoljno čvrstim da podrži provedbu obuke i angažman dionika u partnerskim zemljama.

Među najcjenjenijim aspektima su profesionalni i dosljedni korporativni imidž, koji olakšava suradnju s tvrtkama, pružateljima stručnog obrazovanja i sektorskim organizacijama; tehnička struktura OER okruženja, koja omogućuje lak pristup materijalima i podržava i vođene sesije i vođeno samostalno učenje; pilot logiku koja uključuje različite ciljne skupine (stručnjake iz industrije, nastavnike i studente stručnog obrazovanja te polaznike visokog obrazovanja), što jača relevantnost i potvrđuje izvedivost alata u stvarnim kontekstima obuke; te pravovremena isporuka višejezičnih verzija, uz dodatnu vrijednost međunarodnog seminara u Njemačkoj, što je pomoglo uskladiti napore implementacije i ojačati širenje.

Ipak, evaluacija također ističe nekoliko praktičnih rizika koji bi mogli utjecati na usvajanje ako se ne riješi. Glavni problem odnosi se na onboarding: novi korisnici—posebno odrasli s niskim digitalnim samopouzdanjem—trebaju jasnije ulazne točke, strukturiranje smjernice i jednostavniji jezik kako bi se smanjilo kognitivno opterećenje pri prvom susretu s blockchain konceptima. Pristupačnost također treba ojačati, s provjerama stvari poput čitljivosti, vizualne hijerarhije, mobilne upotrebljivosti i alternativnih formata za grupe mješovitih sposobnosti. Na kraju, evaluacija ističe da bi dokazi o utjecaju mogli biti jači uključivanjem osnovnih pokazatelja korištenja, jasnijih predložaka povratnih informacija i boljeg usklađivanja između upitnika i opsega WP5 kako bi se izbjegla zabuna tijekom izvještavanja.

Prioritetne preporuke uključivale su dodavanje ulazne točke s predloženim putovima učenja prema korisničkom profilu (radnik, tehničar, trener, menadžer), zajedno s kratkim vodičem za uvođenje radi lakšeg pristupa; poboljšanje pristupačnosti kroz praktične provjere i brze vodiče za učenike s niskim digitalnim vještinama; pružanje materijala spremnih za trenere, poput planova sesija, varijacija vremena, procjenjivačkih rubrika, savjeta za rješavanje problema i minimalnih tehničkih smjernica za postavljanje; poboljšanje međujezične dosljednosti dijeljenjem višejezičnog rječnika i jednostavnim QA korakom za prevedenu terminologiju; te integraciju alata za lagano praćenje i predložaka za izvještavanje (statistike korištenja, indikatori dovršenosti, sažeci povratnih informacija) radi podrške usvajanju temeljenom na dokazima i dugoročnoj održivosti.

Što se tiče provedbe preporuka, WP5 je poboljšao:

- strukturiranjem web stranice/OER-a/okruženja tečaja kao vođenog ulaznog puta i jačanjem korak-po-korak navigacije tijekom pilota;
- pristupačnost za odrasle s niskim digitalnim vještinama podržana je fleksibilnim pristupom materijalima u OER-u uz olakšane prilagodbe za isporuku;
- sposobnost postavljanja trenera demonstrirana je kroz prethodna iskustva (WP5-A3 do A6) pilot formata (kratke sesije poput 2h/4h struktura) i praktične smjernice za izvođenje vježbe aplikacije;
- dosljednost prijevoda poboljšana je kontekstualnim pregledom u višejezičnoj izvedbi;
- a kvaliteta praćenja/dokaza potvrđena je sustavnim popisima prisutnosti, upitnicima i konsolidiranim izvještavanjem, dok su nedosljednosti u predlošcima ispravljene tijekom konačne konsolidacije kako bi se izbjegle zbunjujuće reference.

Vrijedi spomenuti da je u ovom WP5-A10 vanjski stručnjak istaknuo da su glavne prepreke već usmjerene na usvajanje (jasno uvođenje, pristupačnost za odrasle s niskim digitalnim vještinama i smjernice trenera za kratke, primjenjive sesije), a povratne informacije sudionika pilot projekta snažno su odražavale iste potrebe — najviše tražeći jasnije korak-po-korak smjernice, više praktičnog rada s aplikacijom, i lakši ulazak u obrazovno okruženje. WP5-A7 je zatim koristio konsolidirane dokaze iz 79 pilot upitnika kako bi upravo ta područja prioritizirao u završnom ciklusu usavršavanja OER/paketa obuke (poboljšanje sloja "kako započeti / kako ga koristiti", jačanje mogućnosti postavljanja trenažnih letjelica i smanjenje prepreka za korisnike koji prvi put putuju), čime je izravno povezao signale korisničkog iskustva pilota s uputama za poboljšanje formaliziranim u vanjskoj evaluaciji.