WP3-A7. Second International Seminar in Brasov (Romania).

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1. INTRODUCTION

The Second International Seminar in Brașov was organized as part of the activities under WP3 – Learning materials for interdisciplinary Blockchain–Rock Ornamental Waste Management, with strong links to WP2 (RockChain Curriculum development) and WP4 (RockChain e-Learning Tool).

The Second International Seminar held in Brașov (Romania) was organized by UNITBv with physical presence, on 28.10.2025, starting at 16.00 hour, in order to facilitate the access to the event to all those interested, including employees of companies and administrative institutions. It aimed to present, disseminate and validate the main achievements of the RockChain project completed up to the advanced stage of implementation, including the results of WP2, WP3 and WP4. As the event took place toward the end of the project, it provided an opportunity to showcase not only the educational and methodological outputs already developed, but also the near-final version of the RockChain digital application. At least 15 participants attended the seminar.

The seminar presented the European Common Curriculum on Ornamental Rock Waste Management using Blockchain Technologies, developed under WP2, together with the learning materials, regulatory review and the e-Handbook on circular economy strategies elaborated in WP3. Participants were introduced to the pedagogical framework, the training modules and the methodological approach supporting the curriculum implementation at VET and higher-education levels.

Given the advanced stage of the project, the seminar also included a dedicated session on WP4, demonstrating the structure, functionalities and user workflow of the RockChain Application, designed to ensure traceability and transparency in ornamental rock waste management. The presentation focused on the application's integration with the curriculum, its potential use by VET institutions and industry stakeholders and the improvements made based on partner and stakeholder feedback.

The objectives of the seminar were to:

- present the structure and learning outcomes of the RockChain Curriculum (WP2),
- disseminate the training materials and regulatory analysis developed in WP3,
- demonstrate the functionalities and practical use of the RockChain Application (WP4),
- gather expert, institutional, and stakeholder feedback to support the refinement of WP2–WP4 deliverables,
- ensure alignment between the educational outputs and the digital solution developed in the project.

By integrating the outcomes of WP2, WP3 and WP4, the seminar provided a comprehensive overview of the RockChain project's pedagogical, regulatory and technological pillars, laying the foundation for the final stages of implementation and for the transition toward the Open Educational Resource (WP5).

2. SEMINAR ORGANIZATION

2.1. Announcements

The seminar was announced through several institutional communication channels of the Faculty of Civil Engineering and its partners. Information was shared via:

1. *Faculty of Civil Engineering website (news and events section):* https://constructii.unitbv.ro/ro/stiri-si-evenimente/570-seminar-si-curs-pilot-in-cadrul-proiectului-rockchain.html

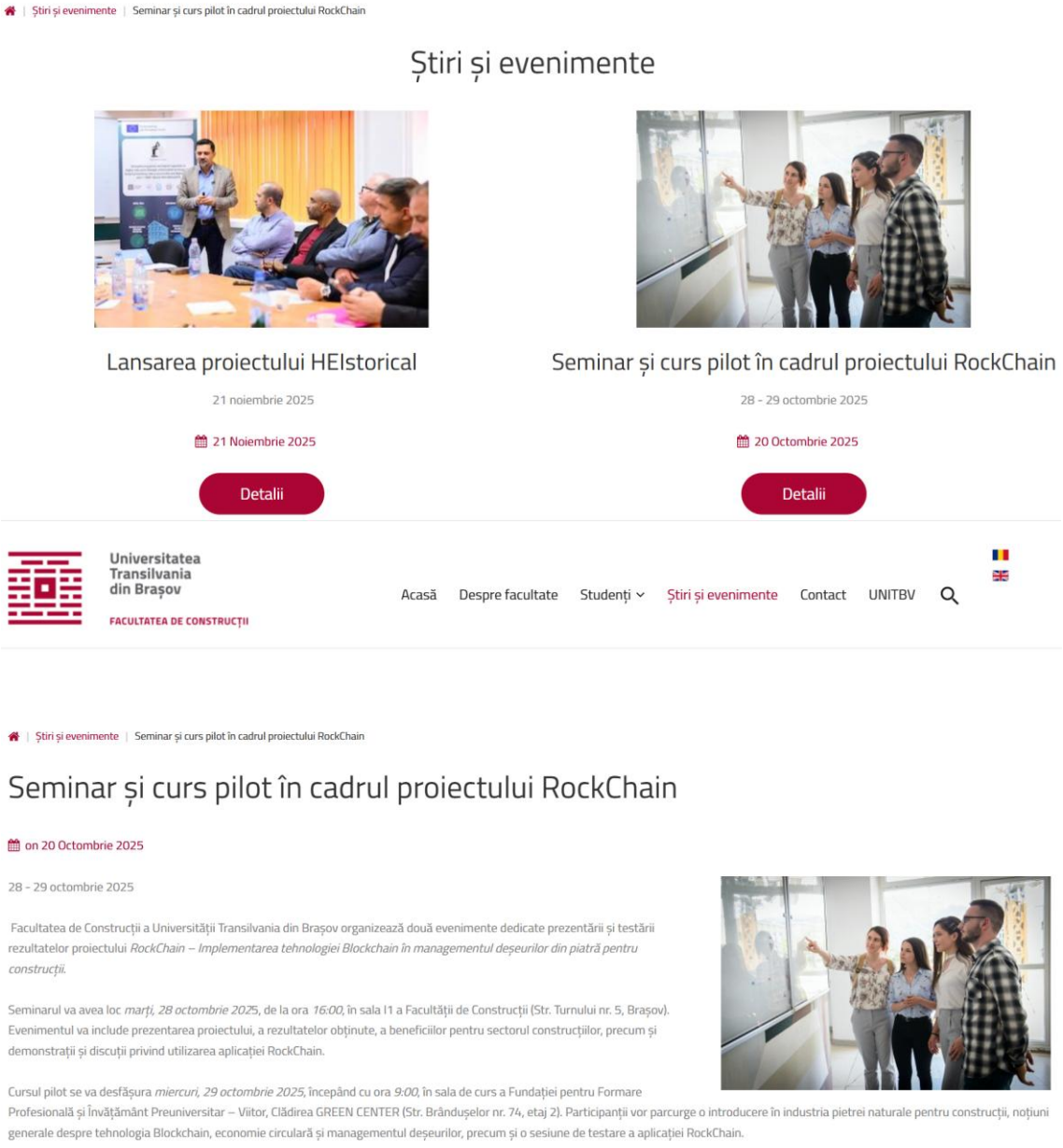


Figure 1: Faculty of Civil Engineering website.

2. *Faculty of Civil Engineering website (research section dedicated to RockChain project):*
https://constructii.unitbv.ro/ro/cercetare/rezultatele-cercetarii/rockchain.html

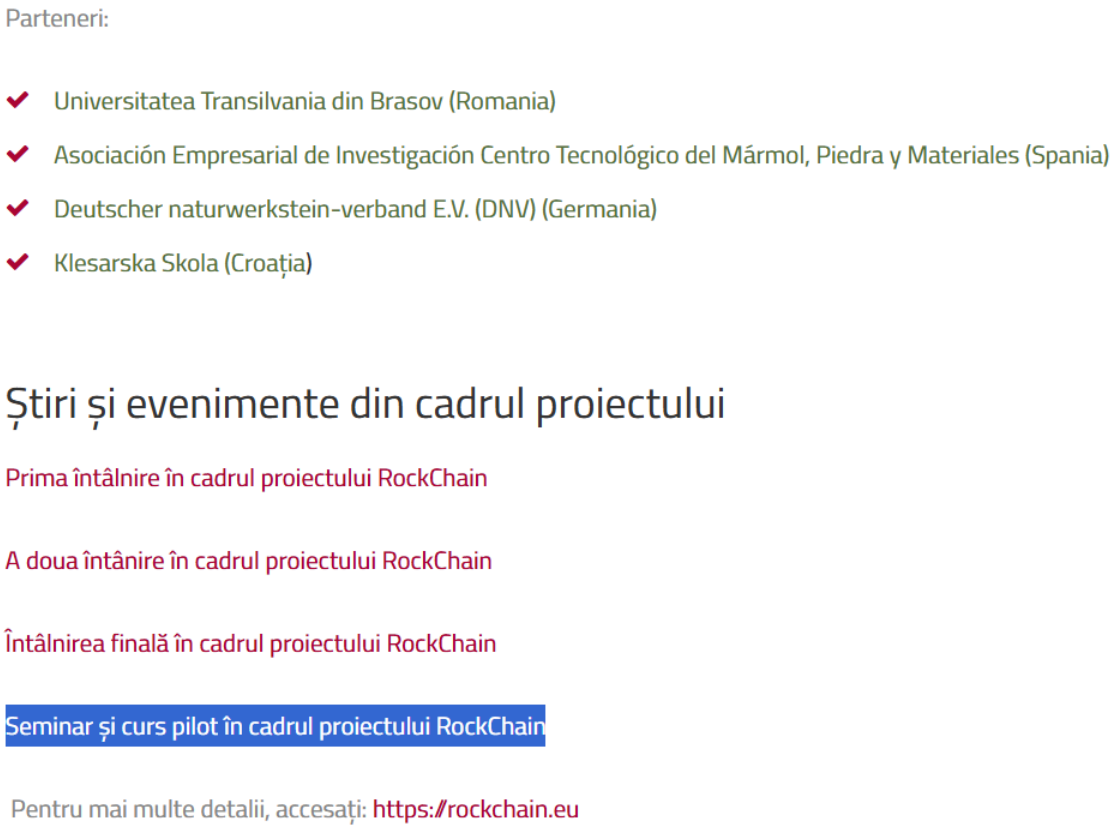


Figure 2: Faculty of Civil Engineering website.

3. *FPIP-Viitor website (news section):*

https://www.calificat.ro/detalii-noutate/2025-10-20/seminar-rockchain.html

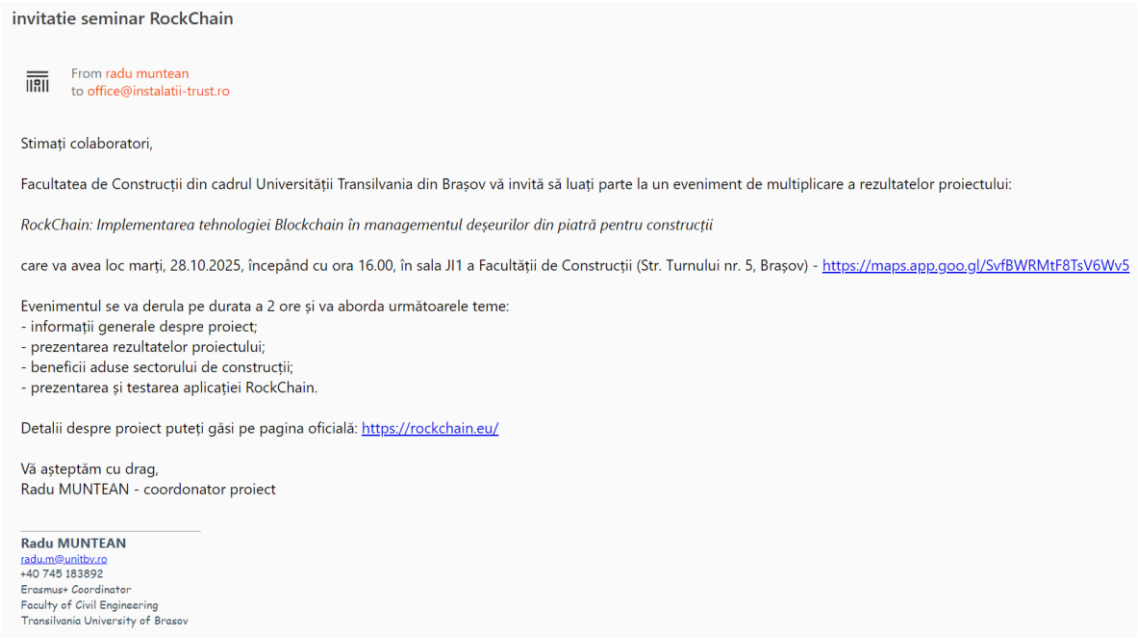
FPIP-Viitor (Foundation for Vocational Training and Pre-University Education) is a non-profit NGO that has been providing nationally recognized vocational training programs (courses, qualifications, assessments) for over 15 years.

FPIP-Viitor was selected for the pilot course of RockChain Project for learners over 45 in vocational construction training because it is an accredited provider with extensive experience, offers suitable facilities at Greencenter in Brașov, has expertise in adult education and professional development, actively promotes lifelong learning and maintains strong local and international partnerships that support such initiatives.

Figure 3: FPIP-Viitor website.

4. Emails

In order to bring the event to the public, a series of emails were sent to private companies operating in the construction sector, as well as to some local institutions with an administrative role. Also, students and master students of Transylvania University of Brasov were informed directly, during the classes and through the e-learning platform of the university, about the possibility to participate.



invitatie seminar RockChain

From radu muntean
to office@instalatii-trust.ro

Stimați colaboratori,

Facultatea de Construcții din cadrul Universității Transilvania din Brașov vă invită să luați parte la un eveniment de multiplicare a rezultatelor proiectului:

RockChain: Implementarea tehnologiei Blockchain în managementul deșeurilor din piatră pentru construcții

care va avea loc marți, 28.10.2025, începând cu ora 16.00, în sala JI1 a Facultății de Construcții (Str. Turnului nr. 5, Brașov) - https://maps.app.goo.gl/SvfBWRMtF8TsV6Wv5

Evenimentul se va derula pe durata a 2 ore și va aborda următoarele teme:
- informații generale despre proiect;
- prezentarea rezultatelor proiectului;
- beneficii aduse sectorului de construcții;
- prezentarea și testarea aplicației RockChain.

Detalii despre proiect puteți găsi pe pagina oficială: https://rockchain.eu/

Vă așteptăm cu drag,
Radu MUNTEAN - coordonator proiect

Radu MUNTEAN
radu.m@unitbv.ro
+40 745 183892
Erasmus+ Coordinator
Faculty of Civil Engineering
Transilvania University of Brasov

Figure 4: Emailing.

5. *Whatsapp announcements*

The seminar was announced and promoted through WhatsApp messages distributed to several targeted groups. These groups included former students from the Faculty of Civil Engineering and professional contacts from the construction and stone-processing sectors.

🚀 Seminar international în cadrul proiectului RockChain
IMPLEMENTAREA TEHNOLOGIEI BLOCKCHAIN ÎN MANAGEMENTUL DEȘEURILOR DIN PIATRĂ PENTRU CONSTRUCȚII
📅 Marți, 28 octombrie | 🕑 16:00–18:00
📍 Facultatea de Construcții, corpul J, sala I1, Str. Turnului nr. 5
👉 Public țintă: profesioniști din domeniul construcțiilor, cadre didactice din învățământul profesional și universitar, reprezentanți ai organizațiilor non-profit și ai administrației publice.
20:54

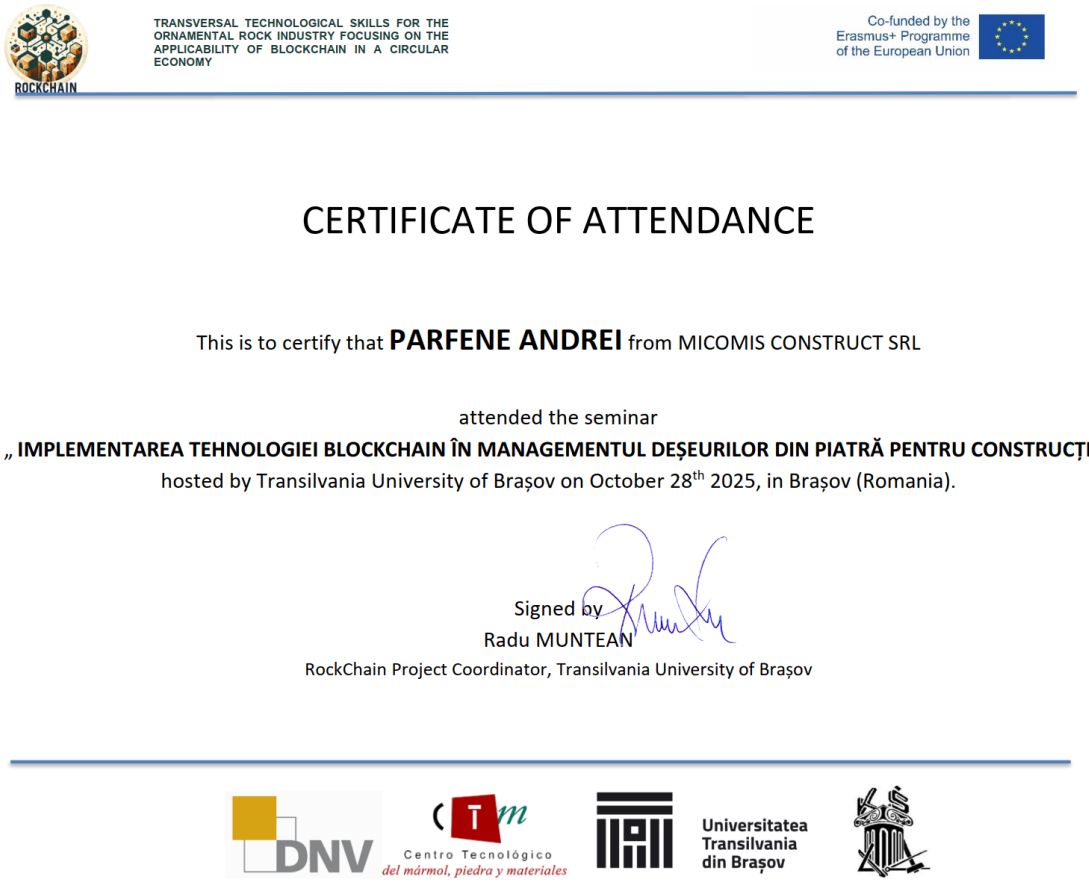
Figure 5: Whatsapp announcements.

2.2. Certificates

Participation certificates were issued to all attendees of the Second International RockChain Seminar. The certificates were designed according to the project's visual identity guidelines and included the following elements: the project title, Erasmus+

programme reference, partner logos, event date and venue and the participant's full name and affiliation.

The certificates were distributed on-site at the end of the event. Digital copies were also made available upon request. A signed list of recipients is provided in the annexes, together with the certificate template used during the seminar.



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

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

CERTIFICATE OF ATTENDANCE

This is to certify that **PARFENE ANDREI** from MICOMIS CONSTRUCT SRL

attended the seminar

„ **IMPLEMENTAREA TEHNOLOGIEI BLOCKCHAIN ÎN MANAGEMENTUL DEȘEURILOR DIN PIATRĂ PENTRU CONSTRUCȚII”**,

hosted by Transilvania University of Brașov on October 28th 2025, in Brașov (Romania).

Signed by

Radu MUNTEAN

RockChain Project Coordinator, Transilvania University of Brașov

DNV

Centro Tecnológico del mármol, piedra y materiales

Universitatea Transilvania din Brașov

Figure 6: Certificate of attendance.

3. AGENDA, SPEAKERS AND CONTENT

3.1. Agenda

The seminar followed the official agenda, which included presentations of project results, demonstrations of the RockChain digital tools, and discussions with participants.

The registration of the participants was done on the spot by the individual registration on a list previously prepared according to the attached model.

TRANSVERSAL TECHNOLOGICAL SKILLS FOR THE ORNAMENTAL ROCK INDUSTRY FOCUSING ON THE APPLICABILITY OF BLOCKCHAIN IN A CIRCULAR ECONOMY
2023-1-DE02-KA220-ADU-000166863

Co-funded by the European Union

Agenda evenimentului

Seminar international în cadrul proiectului RockChain

IMPLEMENTAREA TEHNOLOGIEI BLOCKCHAIN ÎN MANAGEMENTUL DEȘEURILOR DIN PIATRĂ PENTRU CONSTRUCȚII

28 Octombrie 2025

16.00 - 18.30	**Locație: Facultatea de Construcții, corpul J, sala I1**
16:00 - 16:15	Primirea și înregistrarea participanților
16:15 - 16:30	Informații generale despre proiect (UNITBv)
16:30 - 17:00	Prezentarea rezultatelor proiectului (CTM)
17:00 - 17:30	Beneficii aduse sectorului de construcții (UNITBv)
17:30 - 18:00	Prezentarea și testarea aplicației RockChain (CTM)
18:00 - 18:30	Discuții libere și concluzii
18.30	Închiderea evenimentului

Figure 7: Agenda.

3.2. Presentations and speakers

According to the agenda of the event, it took place for over 2 hours, several presentations being made by representatives of UNITBv and CTM. The main topics were connected to WPs 2, 3 and 4.

Key presentations included:

- Overview of the project and progress status (UNITBv)
- RockChain Curriculum – structure, learning outcomes, methodology (UNITBv)
- Training materials and the e-Handbook (CTM)
- Demonstration of the RockChain Interactive Tool and e-Learning platform (CTM)
- Discussion on implementation potential in VET and HE programmes
- Feedback session with participants

After each presentation, discussions took place based on questions from the audience. Also, at the end of the event, an entire hour was dedicated to free discussions, questions and answers, as well as other interactions between participants.

Figure 8: Picture.

Figure 9: Picture.

Figure 10: Picture.

Figure 11: Picture.

3.3. Summary of the seminar

The seminar highlighted the comprehensive progress made toward the development of innovative educational resources addressing waste management in the ornamental rock sector, supported by blockchain technologies. Thanks to the event's timing near the end of the project:

- The RockChain Curriculum (WP2) was presented in its completed form.
- The e-Handbook and multilingual learning materials (WP3) were introduced.
- The interactive RockChain Tool and the e-Learning platform (WP4) were demonstrated in an advanced stage.
- Participants engaged in discussions regarding adoption in training centres, universities and professional development programmes.
- Feedback collected indicates high interest in integrating the RockChain resources into existing curricula and in using the digital tools to enhance training in sustainable waste management for ornamental stone industries.

Finally, 15 people participated, representing private companies in the construction and administrative sectors. The companies represented at the event are active in the urban development sector (Eren Cons SRL), in the design of constructions and installations

(Micomis Construct SRL, Bestatic Design Consukting, Tech Pro Arch SRL, etc.), in the execution of construction works and facility management (ICCO FM Brasov) and in the administrative sector (Brasov Local Council, Sanpetru City Hall).

4. DISSEMINATION MATERIAL AND SEMINAR PROMOTION

Seminar promotion was made as presented in point 2.1.

Promotional materials for the seminar and project results were distributed before and during the event, including:

- project brochures.
- PowerPoint presentations.
- links to the RockChain platform, tools and surveys.

Promotion channels included university websites, institutional platforms, social networks and direct communication with industry stakeholders.

Figure 12: Brochure.

Figure 13: Picture.

5. CONCLUSIONS

The Second International Seminar in Brașov successfully disseminated the integrated results of WP2, WP3 and WP4 to a broad audience of academics, trainers, professionals, and students. The event strengthened cooperation between partners and external actors, provided valuable feedback for final adjustments of the training resources, and supported the future implementation and sustainability of RockChain educational tools.

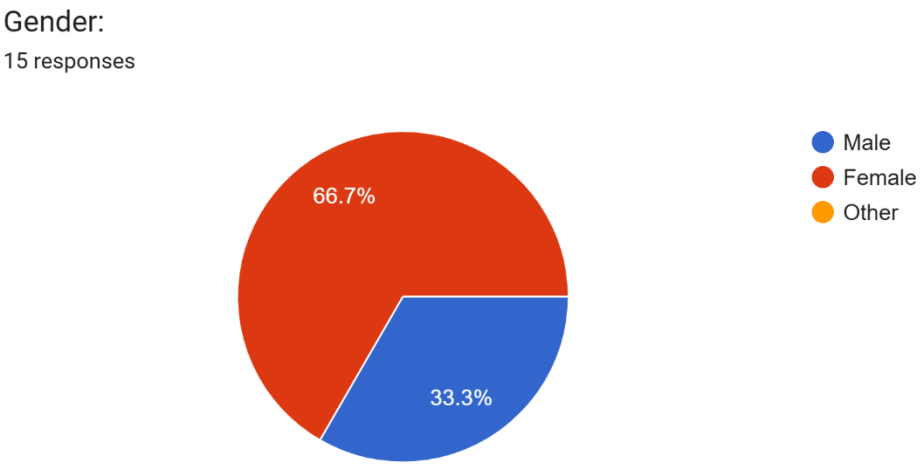
The seminar contributed significantly to the strategic objective of the project: providing high-quality, innovative educational solutions for improving waste management practices in the ornamental rock sector through blockchain technologies.

6. ANNEX I: SURVEY RESULTS

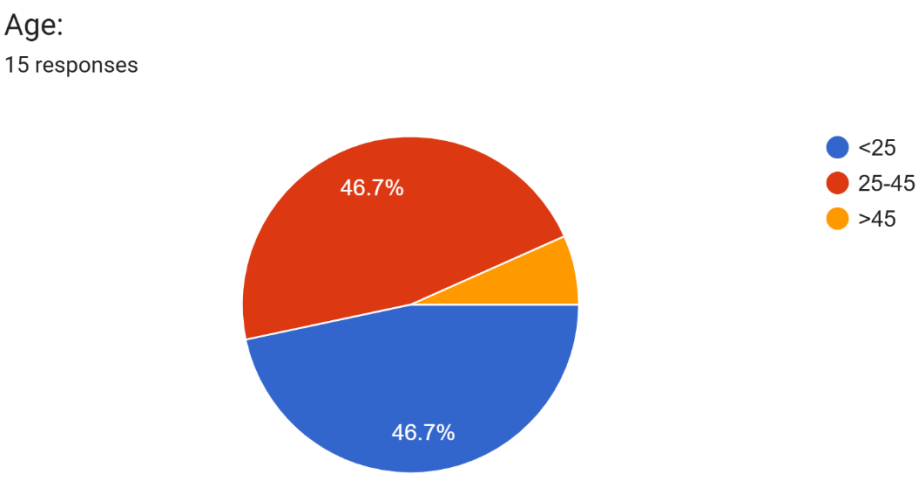
A satisfaction and feedback questionnaire was completed by participants at the end of the event. Results are analysed and included below.

General data:

Gender:

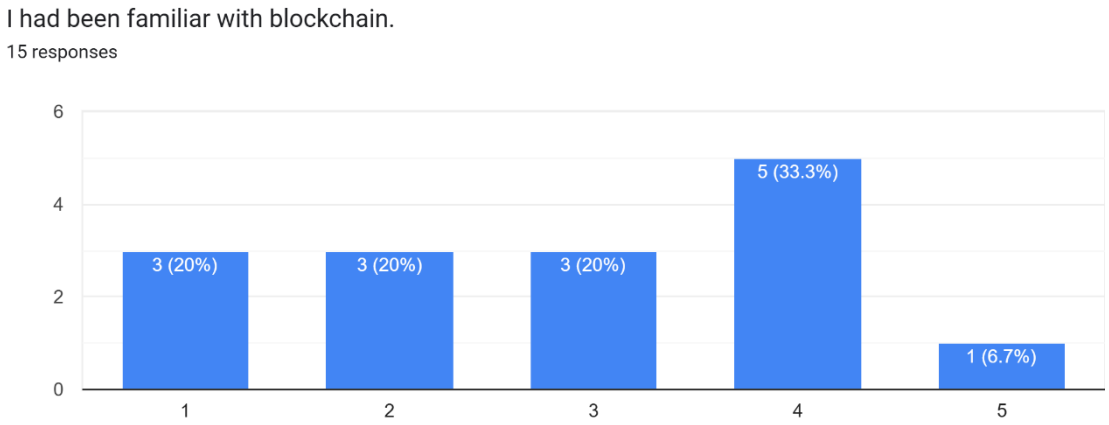


Age:

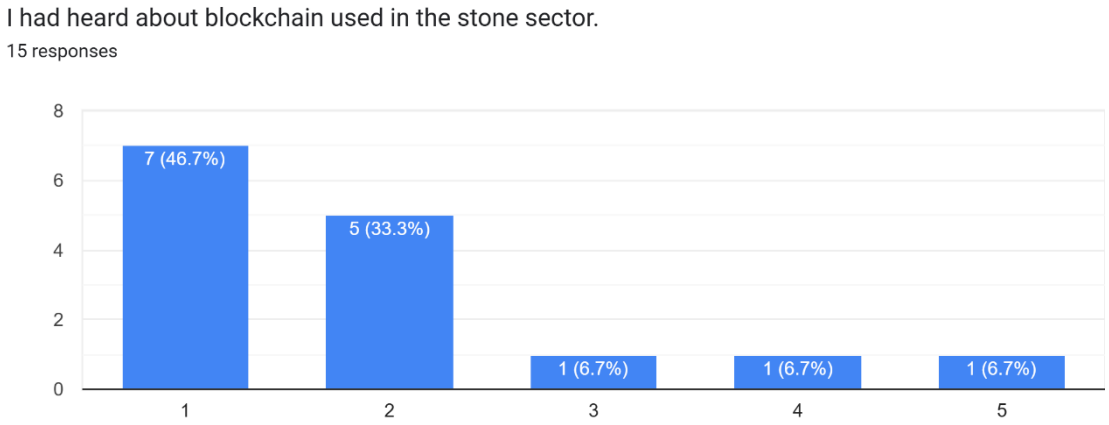


Before my participation in this activity:

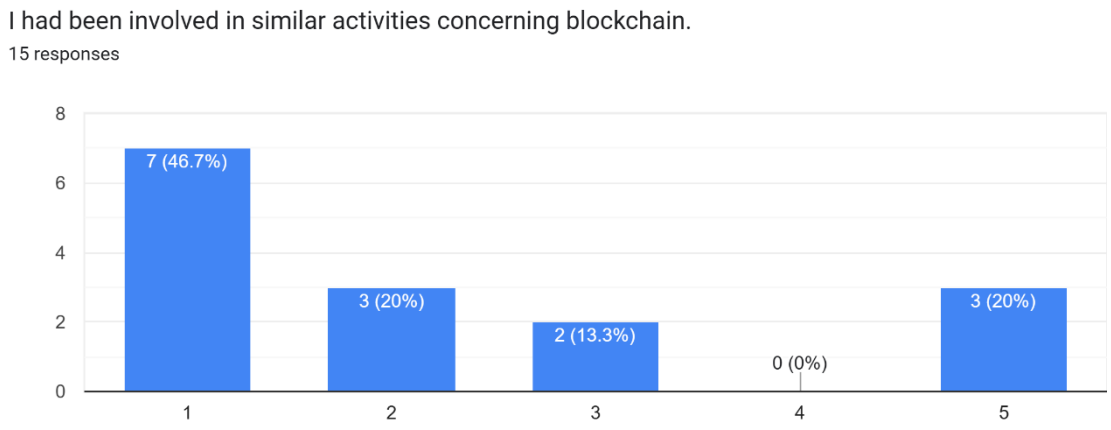
I had been familiar with blockchain.



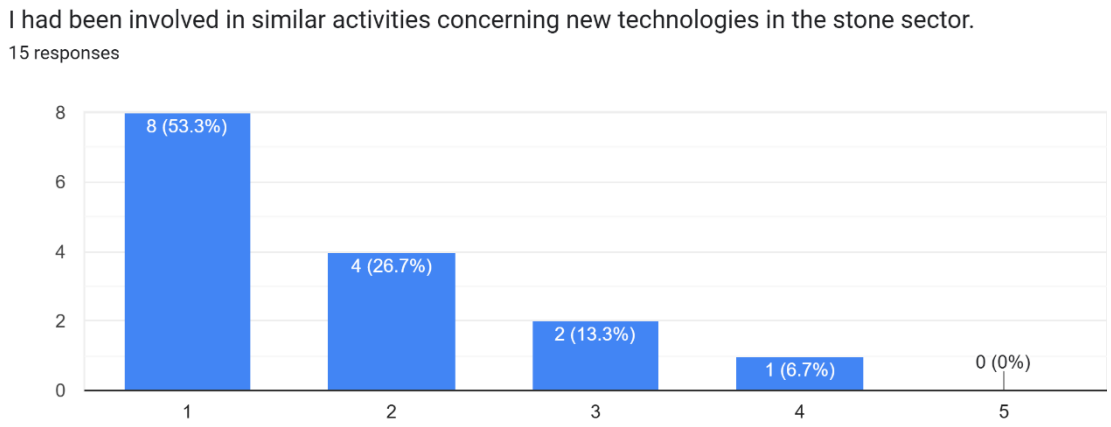
I had heard about blockchain used in the stone sector.



I had been involved in similar activities concerning blockchain.

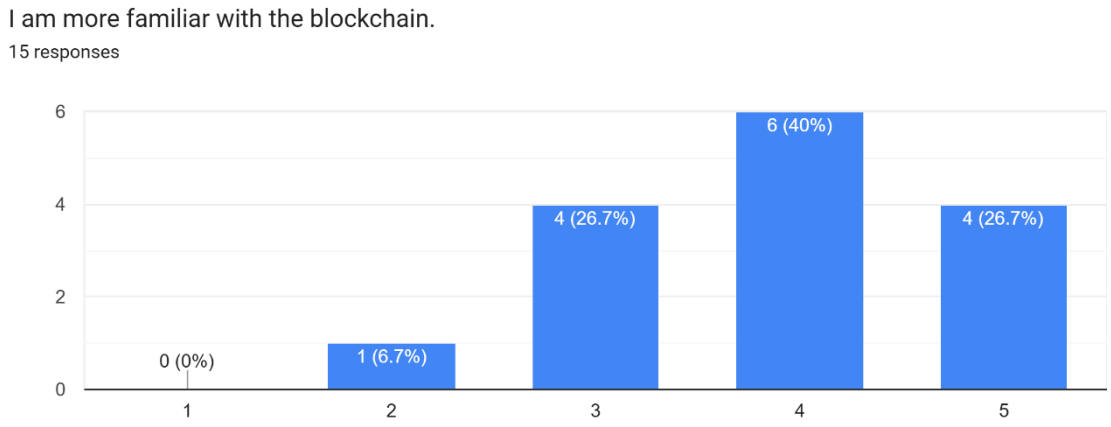


I had been involved in similar activities concerning new technologies in the stone sector.

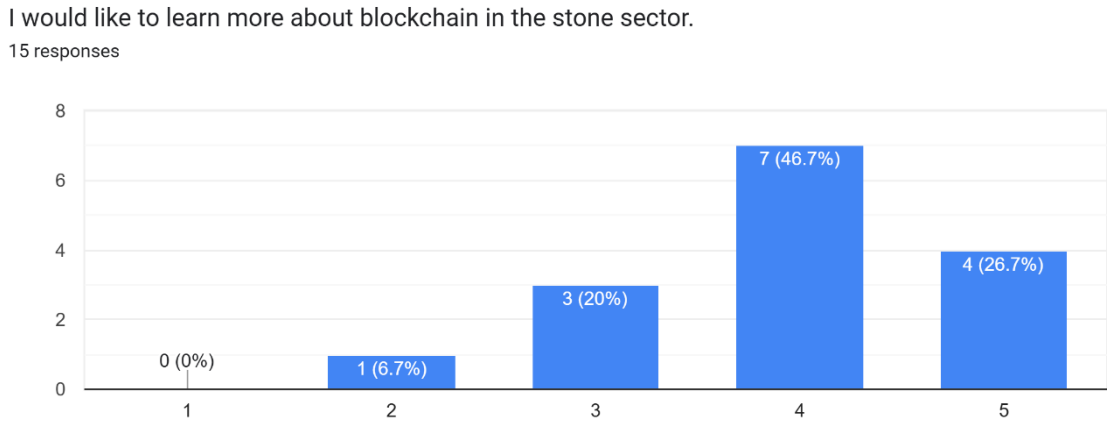


After my participation in this activity:

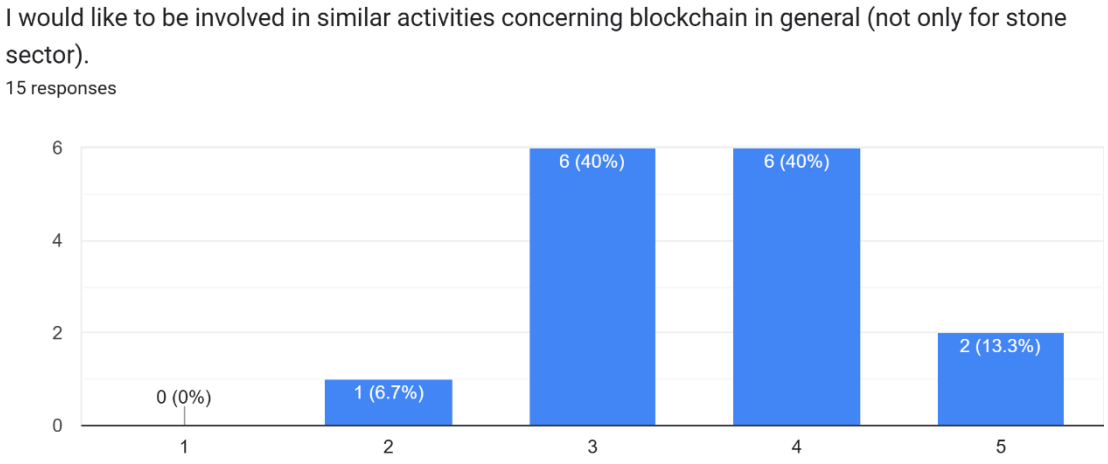
I am more familiar with the blockchain.



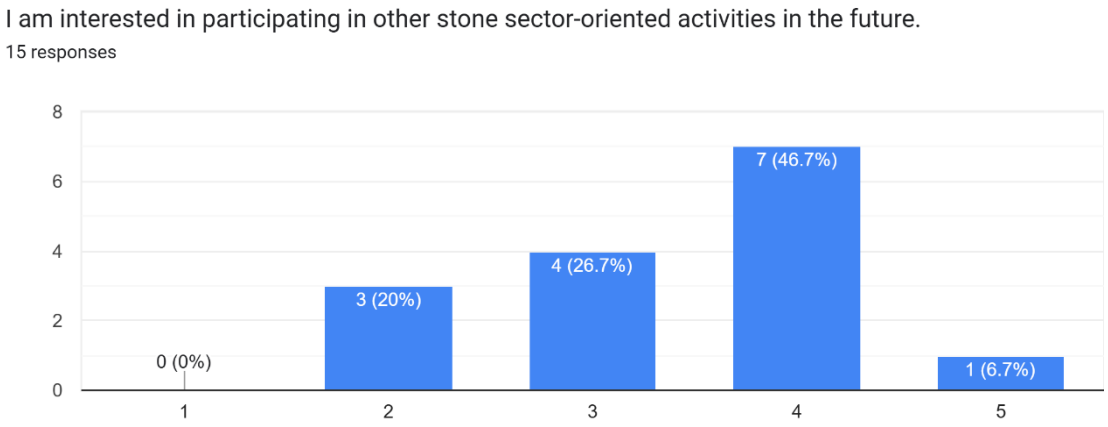
I would like to learn more about blockchain in the stone sector.



I would like to be involved in similar activities concerning blockchain in general (not only for stone sector).

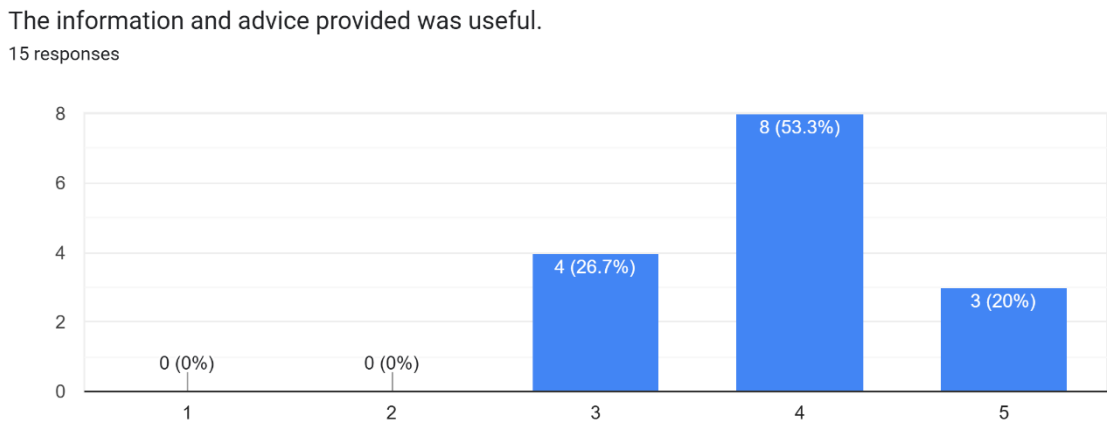


I am interested in participating in other stone sector-oriented activities in the future.

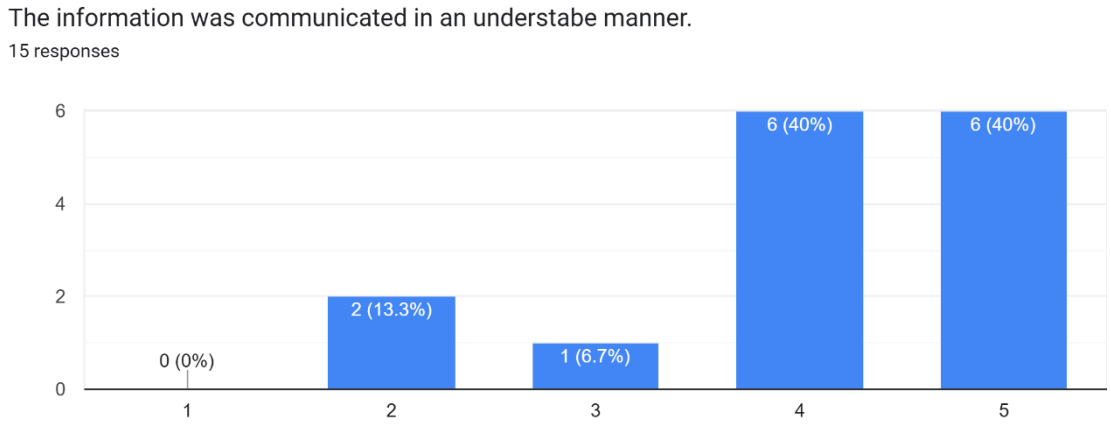
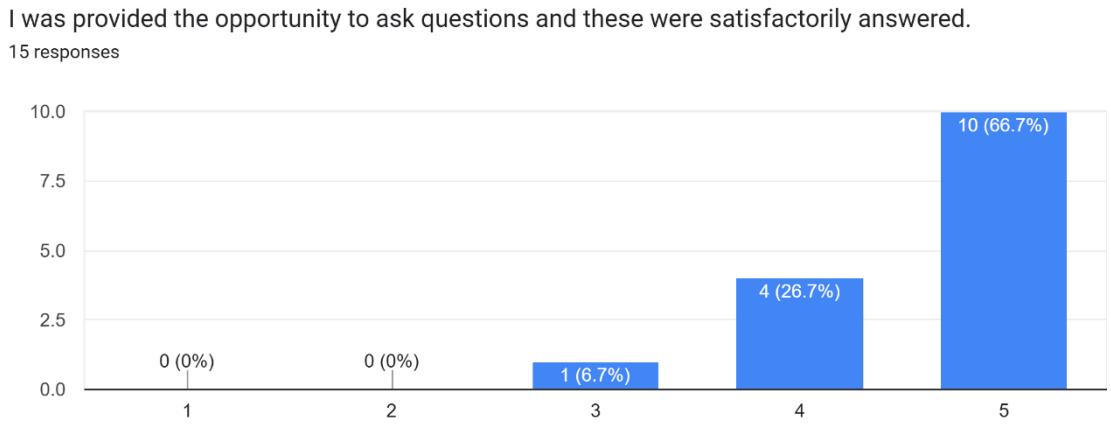


Evaluate your experience at this event:

The information and advice provided was useful.



The information was communicated in an understandable manner.



I was provided the opportunity to ask questions and these were satisfactorily answered.