



# WP5.A2. IT production of RockChain Open Educational Resource (OER).



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Transilvania  
University  
of Brasov





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## Contents

1. INTRODUCTION .....	3
2. OPEN EDUCATIONAL RESOURCE (OER).....	4
3. TRAINING MATERIALS .....	6
4. COURSE ACCESS .....	8
5. TOOL ACCESS.....	15



## 1. INTRODUCTION

This document presents the results of activity WP5.A2 "IT production of Open Educational Resource" corresponding to Work Package 5 "RockChain Open Educational Resource (OER)" of the RockChain project.

This document describes in detail the RockChain Open Educational Resource (OER), the main result of this work package. Open Educational Resources (OER) refer to digital teaching, learning and research materials that allow their use, adaptation and redistribution by others with no or limited restrictions. The OER approach is particularly relevant for vocational and adult education, because it enables flexible, self-paced learning and supports the reuse of high-quality materials across countries and stakeholder groups.

For this reason, an online platform has been developed to host and disseminate the results and training materials produced in the project, making them accessible to professionals, trainers and other stakeholders in the ornamental stone and construction ecosystem.

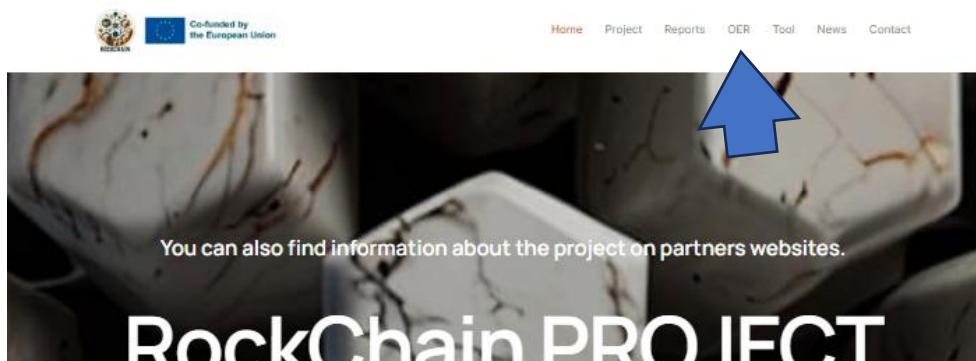
The OER is accessible from the project website: <https://rockchain.eu/> which has been designed to facilitate navigation and to make the project and its results accessible to a wide audience.



## 2. OPEN EDUCATIONAL RESOURCE (OER)

The OER follows the design proposed in the previous task and maintains coherence with the corporate identity of the project. It is free to access, intuitive to use and optimised for continuous availability. The OER integrates the educational materials developed within RockChain and is prepared to be updated throughout the project lifetime: contributions are collected through the project contact channel and are reviewed by the consortium before being included, ensuring the quality and relevance of the published content.

The OER is accessible from the project's website: <https://rockchain.eu/>





Or also from the following link: <https://rockchain.eu/oer/>

ROCKCHAIN

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TRAINING MATERIALS

COURSE ACCESS

## Our Partners



DEUTSCHER NATURWERKSTEIN-VERBAND E.V.



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Universitatea Transilvania din Brasov

UNIVERSITATEA TRANSILVANIA DIN BRASOV



KLESARSKA SKOLA

Project code: 2023-1-DE02-KA220-ADU-000166863

Within the OER we have two sections:

- Training Materials
- Course Access



### 3. TRAINING MATERIALS



TRAINING MATERIALS

COURSE ACCESS



Within the Training Materials shortcut, users can access the training materials and project deliverables published by RockChain. The contents are organised per Work Package and are made available through the project document repository (Reports section) as shown below:



## HERE YOU WILL FIND ALL DOCUMENTS AND REPORTS OF THE RockChain PROJECT

WP2 - European common curricular on Waste Management applying Blockchain technologies for Ornamental Rock Industry focused on professionals over 45 years old.

REPORTS	DOWNLOAD OPTIONS
WP2-A1 Roadmap of the Methodology.	Available soon!
WP2-A2 Awareness of needs surveys to identify specific learning difficulties.	Available soon!
WP2-A3 Report of data analysis and conclusions.	Available soon!
WP2-A4 Handbook for an educational approach for people with different skills focused on transversal capacities in stone sector.	Available soon!
WP2-A5 Report on the results of First International Seminar in Split (Croatia).	Available soon!
WP2-A6 RockChain Curriculum: Production of a rock ornamental waste management curriculum using blockchain technology.	Available soon!
WP2-A8 First International Seminar in Pucisca (Croatia).	Available soon!

WP3 - Learning materials for interdisciplinary Blockchain-Rock Ornamental Waste Management.

REPORTS	DOWNLOAD OPTIONS
Comparative study of Rock Ornamental Waste management regulations in each country.	Available soon!
Comparative study of information technologies applied to waste management at international level in stone sector.	Available soon!
Develop of training Material for e-Handbook based on the curricula.	Available soon!
eHandbook of Circular Economy strategies applied to Rock Ornamental Waste Management using Blockchain technologies.	Available soon!
Participation in a congress to disseminate the results of WP3.	Available soon!
Second International Seminar in Brasov (Romania).	Available soon!

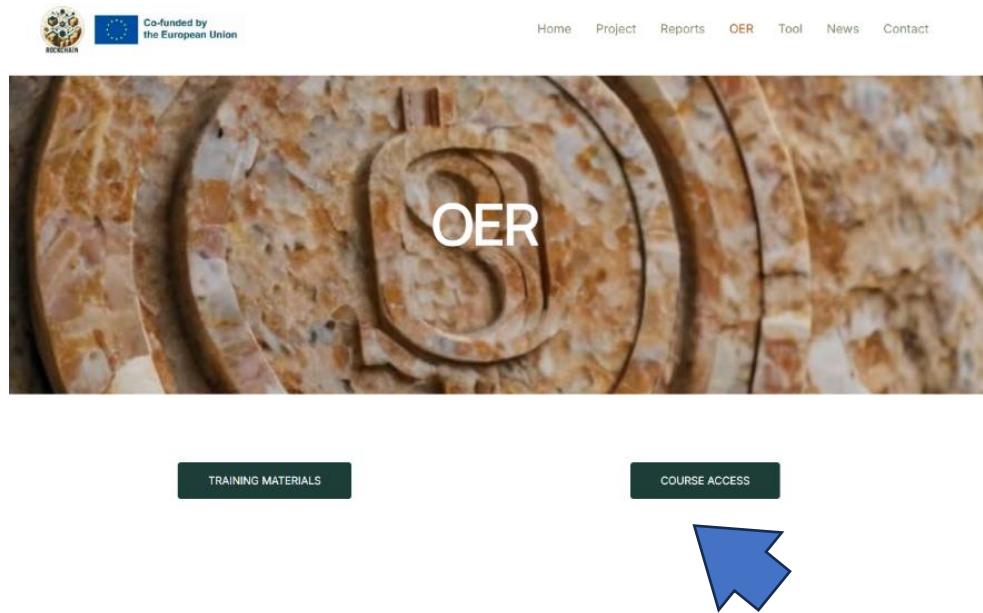
For every Work Package, users can find the associated deliverables and training resources (with download links published progressively as outputs are validated and released).

To return to the main OER menu, use the browser navigation controls or select the OER page again from the website menu.



## 4. COURSE ACCESS

Accessing the Course Access tab, users are directed to the RockChain online course environment, where the learning units and self-paced activities are hosted.



From there, you will be directed to the course platform (URL maintained by the consortium), typically available at: <https://class.rockchain.eu/>



You can use a generic access through the user “studentzero” or request/obtain access to the course environment through the registration form in order to take part in a RockChain online course:

<https://docs.google.com/forms/d/e/1FAIpQLSfN5Rcu-HV0boWFnvFEzdworaQ3yuFC8Yap6HusHyM9j23Drw/viewform?usp=header>



## RockChain. Register for our free courses!

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





Name: \*

Tu respuesta

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Surname: \*

Tu respuesta

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email: \*

Tu respuesta

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Country: \*

Tu respuesta

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Study/work centre: \*

Tu respuesta

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Study/work centre address: \*

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In compliance with the provisions of the LOPD (Organic Law on the Protection of Personal Data), USEinforma you that your personal data reflected in our commercial documentation will be incorporated into an automated file with the purpose of being used for the development of the commercial activity itself and to inform you of those products, services and events offered by the entity and that could be of interest to you. You can select "no" in the previous question or, subsequently, exercise your rights of access, rectification, cancellation and opposition by sending a request to the following e-mail address:  
info@ctmarmol.es

- Yes
- No



In case the registration link is not available or the platform is temporarily offline, access can be requested through the project contact page: <https://rockchain.eu/contact/> (or by email to the coordinator: [info@natursteinverband.de](mailto:info@natursteinverband.de)).

## Content of the RockChain course:

The screenshot shows the course structure in a learning management system. The course is titled "RockChain course\_EN". The navigation bar includes "Dashboard", "My courses", "Site administration", "Edit mode", and a search icon. The course structure is as follows:

- General**
  - UNIT 1. Introduction to the Ornamental Stone and Mining Industry.
    - UNIT 1. Introduction to the Ornamental Stone and Mining Industry.
    - Presentation. Introduction to the Ornamental Stone and Mining Industry.
    - Video 1. What Is Mining?
    - Video 2. Mining the world's most precious marble in Italy.
    - Video 3. From Quarry to Fortune: The Million-Dollar Journey of Granite Mining and Manufacturing
  - Evaluation
- UNIT 2. Blockchain Fundamentals.**
  - Unit 2. Blockchain Fundamentals.
  - Presentation. Blockchain Fundamentals.
  - Video 1. Blockchain in 7 Minutes | What Is Blockchain | Blockchain Explained | How Blockchain Works | Simplilearn
  - Video 2. What is a Blockchain? (Animated + Examples)
  - Video 3. Smart contracts for beginners, explained (in 6 minutes) | Cryptopedia
  - Video 4. Blockchain or Database: Which One is More Secure? | Stefanini North America and APAC
  - Video 5. Blockchains: how can they be used? (Use cases for Blockchains)
  - Video 6. Top 5 Blockchain Use Cases | Blockchain Real-World Applications | Banking & Finance | Healthcare
  - Video 7. How will blockchain be used in supply chain logistics? | Zmoda
  - Video 8. Blockchain and What It Means for the Recycling Sector



UNIT 3. Circular economy in the context of natural stone.

[Unit 3. Circular economy in the context of natural stone.](#)

[Presentation. Circular economy in the context of ornamental stone](#)

[Video 1. Circular Economy. Beyond Recycling](#)

[Video 2. How to move from a linear economy to a circular economy?](#)

[Video 3. Where Does Mining Fit in with the Circular Economy? | DIF](#)

[Video 4. What challenges and opportunities does the circular economy bring for the mining industry?](#)

[Evaluation](#)

UNIT 4. Blockchain applied to waste management.

[Unit 4. Blockchain applied to waste management.](#)

[Presentation. Blockchain applied to waste management.](#)

[Video 1. The Key to Circularity - Digital Product Passports Explained](#)

[Video 2. The Application of Blockchain in Digital Twins Explained](#)

UNIT 5. RockChain. Final practical exercise: integrative project.

[Unit 5. RockChain. Final practical exercise: integrative project.](#)

[Presentation. RockChain. Final practical exercise: integrative project.](#)

[Evaluation](#)

If you want to continue learning

[BC4ECO](#)

[BCH4VET](#)

[NATURE](#)

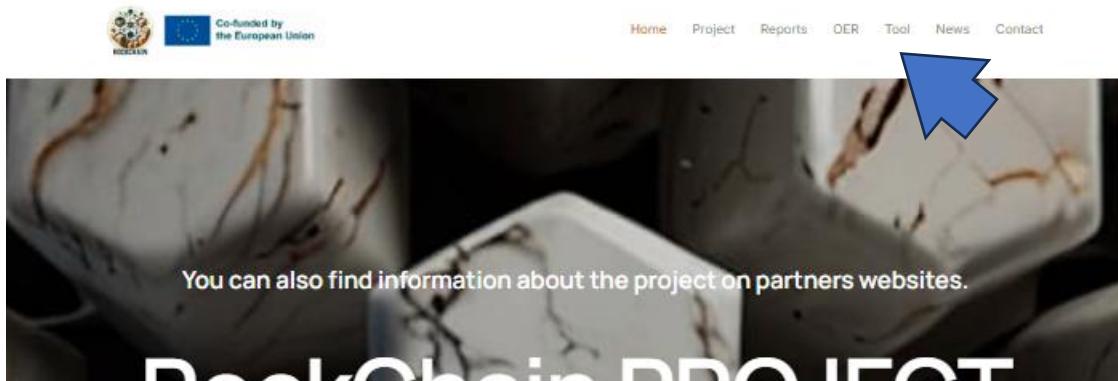
[SEGAE](#)

This online course supports self-paced learning and is designed to adapt to users' schedules. The training content is provided free of charge and aligned with the project's objective of upskilling professionals and trainers in waste management and digital traceability concepts relevant to the ornamental stone sector.



## 5. TOOL ACCESS

By selecting Tool Access, users are directed to the public entry point of the RockChain interactive tool on the project website: <https://rockchain.eu/tool/> (as shown below). This section is intended to provide direct access to the serious-game environment once deployment is completed and user access is enabled.



This pathway complements the OER by linking learning materials to hands-on practice. When the tool is available, the Tool Access page will be used to communicate access requirements (e.g., authentication), device compatibility and basic user guidance, ensuring a consistent learning journey from training materials and course content to interactive activities.



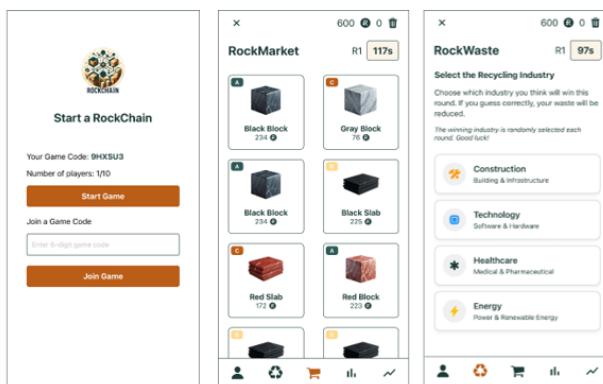
The RockChain Tool is a mobile, multiplayer serious-game that turns the course content into practice: learners make decisions about markets, materials, waste generation, circular-economy actions and traceability in a controlled training session. This interactive experience is the practical counterpart of the RockChain OER and supports classroom and workshop delivery.

### Access to the App (APK)

The pilot version of the RockChain Tool is provided as an Android APK package. Use the link below to download and install it on your device.

APK download: [Rockchain.apk](#)

For device requirements, installation steps and the recommended classroom workflow, consult the [Guideline Notes \(WP4-A4\)](#)



### Where to find the key learning content

All RockChain learning units, slides and course resources are organised in the **OER** section:

<https://rockchain.eu/oer/>



## Where to find the technical documentation (recommended)

If you need deeper technical details (architecture, data model, hosting, runtime flows), use the WP4 technical documents:

- **WP4-A1** – Production of the database (data model, Firestore structure, key flows)
- **WP4-A2** – Refined e-learning tool (improvements, UX and stability refinements)
- **WP4-A3** – Functional Specifications (what the tool does and how it behaves)
- **WP4-A4** – Guideline Notes (trainer/learner workflow, session guidance)
- **WP4-A5** – Production of the interactive Tool (architecture, deployment, access & distribution)

WP4 - e-Learning tool based on Blockchain-Rock Ornamental Waste focused on Circular Economy.

REPORTS	DOWNLOAD OPTIONS
Production of the database for the e-Learning Tool.	Available soon!
Refined of e-learning tool.	Available soon!
Functional specifications.	Available soon!
Guideline notes.	Available soon!
Production of Interactive RockChain Tool.	Available soon!
Pedagogical test and Implementation of IT Improvements of Interactive RockChain Tool.	Available soon!
Technical test and implementation of IT improvements Interactive RockChain Tool.	Available soon!
Producing a scientific article related to results of WP4.	Available soon!

## Our Partners

