WELCOME TO OUR FOURTH AND FINAL NEWSLETTER

BLOCK CHAIN
FOR
AGRI FOOD EDU

Welcome to our project

Blockchain for Agri-Food Educators is an innovative project that seeks to transform the provision of education in the agribusiness, food science, and nutrition sectors through the strategic utilization of blockchain technology.

READ MORE

WHAT'S INSIDE...

Co-funded by the European Union

Project Results

Welcome to the fourth and final newsletter of our project, where we reflect on the key results we have achieved while placing a special focus our Blockchain for Agrifood Online Course.

Over the course of this project, we have accomplished a lot—from our Kick-off Meeting in Nitra, Slovakia, in October 2022, to the release of the **Baseline Report, Status Quo Report,** and **Guidelines on Teaching Blockchain**. You can read about them in more detail in our third newsletter. **CLICK HERE TO ACCESS**.

We have also developed an **Online Course** with 5 modules, 29 topics, and 4 quizzes, bringing all our findings together in an accessible, practical format for educators and students alike. **CLICK HERE TO ACCESS.** Additionally, we created 6 **Open Educational Resources** for teaching Blockchain for Agri Food. **CLICK HERE TO ACCESS.**

This newsletter will present these accomplishments in more detail and offer final reflections from our partners along the way.

Status Quo Report

Guidelines on Teaching Blockchain
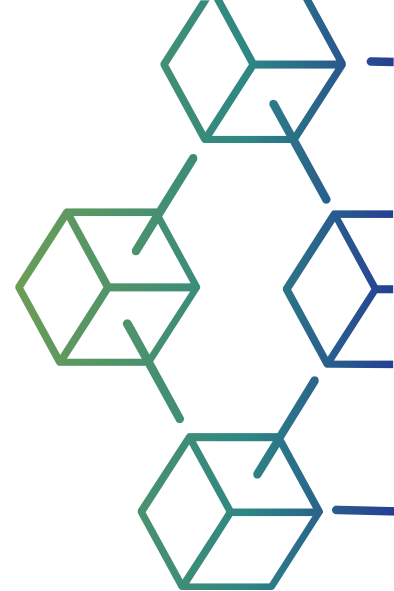
Baseline Report

Open Educational Resources

Our **Open Educational Resources** offer an in-depth exploration of how blockchain technology is transforming the agrifood sector. These 6 modules are designed for professionals, academics, and enthusiasts looking to understand blockchain's role in modern agriculture, providing detailed insights into its applications, advantages, and challenges.

From an introduction to the basics of blockchain to its real-world applications within agrifood supply chains, each module covers essential topics such as improving transparency, food safety, and sustainability. Practical case studies showcase successful blockchain projects, while other modules delve into core components like nodes, smart contracts, and cryptographic security.

By the end, you will have a well-rounded understanding of blockchain's impact and potential, with a focus on trust, decentralisation, and transparency. Ideal for anyone aiming to stay ahead in the intersection of agriculture and technology.

Access the OERs HERE

MODULE 1
Introduction to Blockchain in the AgriFood Chain

- Introduction to the Blockchain Technology
- The AgriFood Chain: Challenges and Opportunities
- How Blockchain Addresses AgriFood Challenges
- Real-world Applications of Blockchain in AgriFood
- Case Studies of successful implementation

MODULE 2
The building blocks of blockchain and the blockchain mechanism

- Introduction
- Basic components: blocks, cryptographic hashing, decentralisation
- What are the key components of the blockchain?
- What are the benefits of the blockchain?
- What is the difference between a database and a blockchain?
- How is blockchain different from the cloud?
- What is blockchain as a service?

MODULE 3
How To Use Blockchain Technology Within The Agrifood Sector

- Introduction
- Blockchain and supply chain managment
- Blockchain and farmer-centric solutions
- Blockchain and environment-centric solutions
- Blockchain and consumer relations
- Limitations of blockchain's uses in agrifood
- Conclusions

MODULE 6
Overview of Blockchain in Agrifood

- Introduction to blockchain in the agrifood chain
- The building blocks of blockchain
- How to use blockchain within the agrifood sector
- Blockchain in practice
- Trustworthy blockchain sources - who to trust?
- Conclusions

MODULE 5
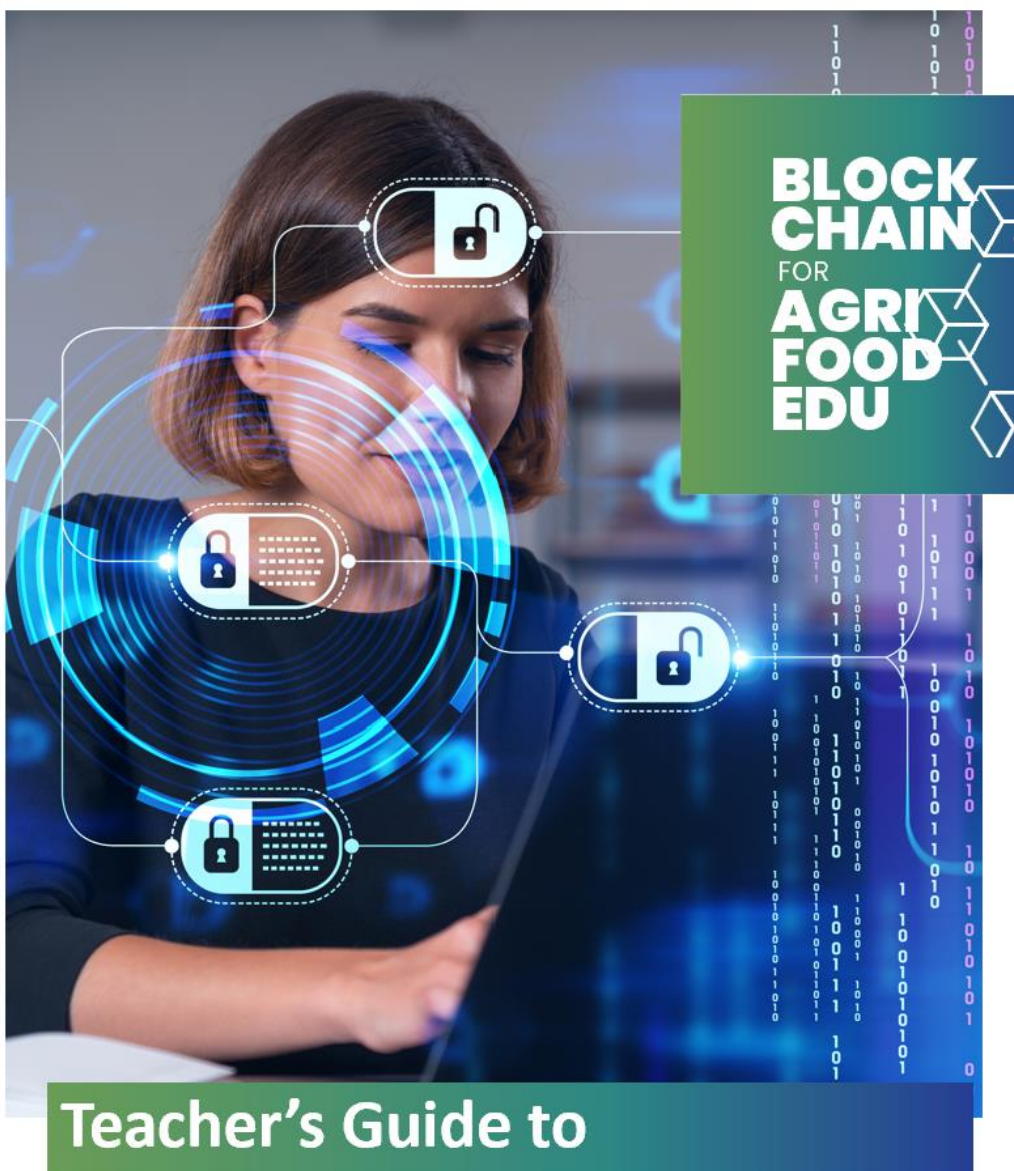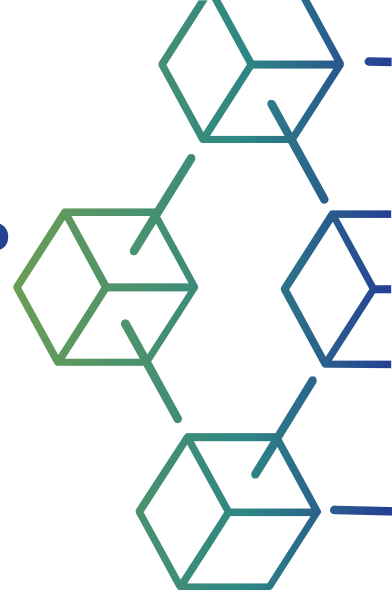### Trustworthy Blockchain Resources in the Agrifood Sector – Who to Trust?

- Introduction
- Key terms
- Blockchain Use In The Agrifood Sector
- Exercises and Case Studies
- What Are The Current Limits Of Blockchain?
- Conclusions

MODULE 4
Blockchain in Practice - series of case studies

- The Power of Case Studies, a Module Introduction
- Blockchain in Agri Supply Chains
- The Rise of Intermediary Platforms
- Retailers Are On Board
- Learning Exercise and Conclusions

Educators. Want to bring specific blockchain for agrifood education content into your HEI or VET training?

We've got you covered! Check out and download our detailed Teacher's Guide.

Teacher's Guide to

Blockchain for Agri Food Edu Curriculum & Open Education Resources
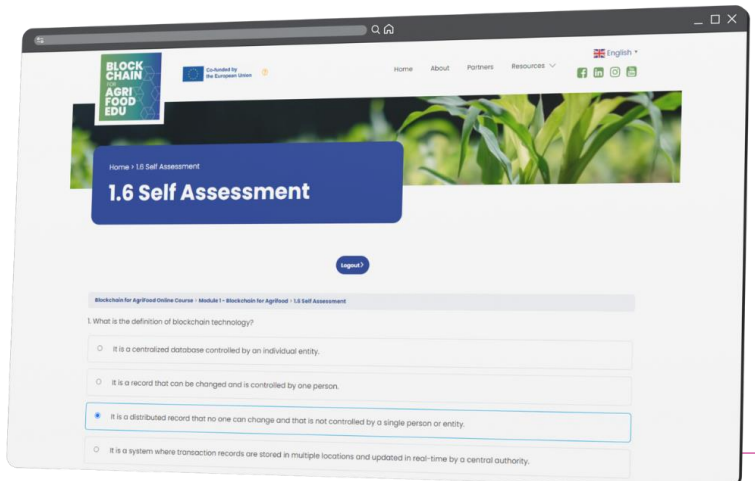
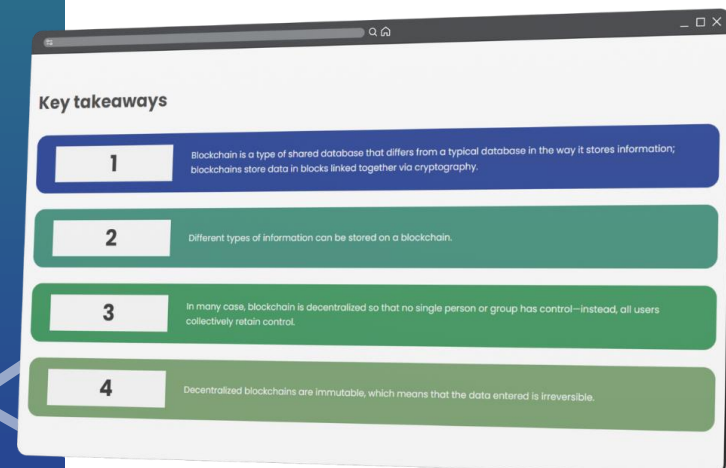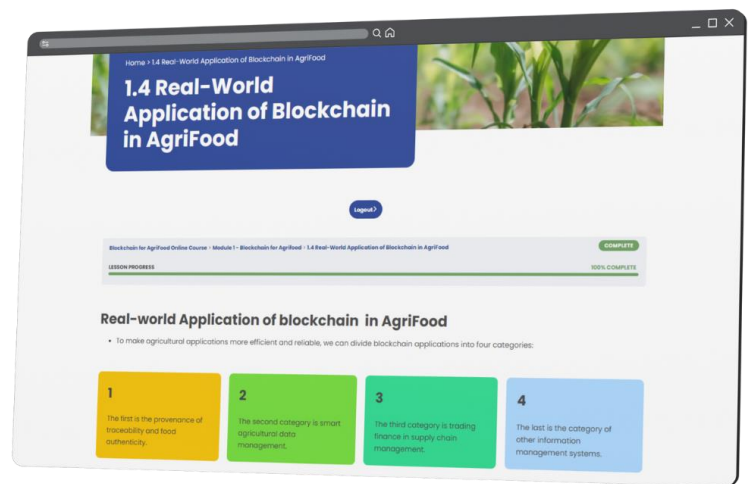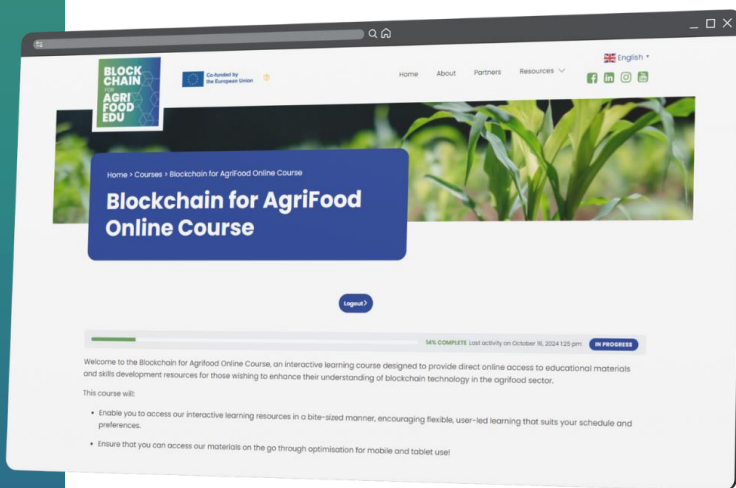# Blockchain for Agri Food Online Course

The Blockchain for Agrifood Online Course is one of the most impactful results of the project, designed to deepen your understanding of blockchain technology in the agrifood sector. This flexible, interactive programme offers mobile-optimised learning, allowing you to access materials wherever you are.

With concise modules, you will explore blockchain fundamentals, its application across agrifood supply chains, and real-world case studies. Each section includes self-assessments to ensure a comprehensive learning experience.

Don't miss the chance to engage with this cutting-edge course and enhance your expertise in blockchain technology for the agrifood sector.

Access our interactive learning resources HERE

Partners' Reflections

As we reflect on the significant progress and achievements of the Blockchain for Agri Food Edu project, we would like to share the collective expertise and insights from **Slovak University of Agriculture, Czech University of Life Sciences, Momentum Consulting, FH Münster University of Applied Sciences, Arctur,** and **European E-learning Institute** have been instrumental in shaping the success of this initiative.

Below you will find reflections from our partners on the project's impact, highlighting the transformative role blockchain technology is playing in revolutionising the agrifood sector.
Their perspectives underscore the importance of collaborative innovation and shared learning in addressing the sector's most pressing challenges.

SUA Slovak University of Agriculture in Nitra

Blockchain project's outcomes have been implemented across agrifood and technology study programmes throughout Europe.

momentum [educate + innovate]

Thanks to the project, agrifood educators and their students are now confidently championing blockchain technology to transform agrifood systems.
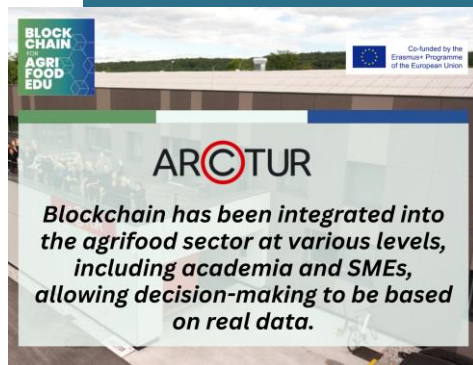
FH MÜNSTER University of Applied Sciences

The project has reduced scepticism around blockchain, with our HEI and VET teachers now fully embracing blockchain technology and best practices.

ARCTUR

Blockchain has been integrated into the agrifood sector at various levels, including academia and SMEs, allowing decision-making to be based on real data.

European University E-Learning Institute

The concept of blockchain in the agrifood sector was brought to life, demonstrating its possibilities and importance. Through interviews and engagement with external stakeholders, we successfully promoted the project's concept and created significant impact.

CZU Czech University of Life Sciences Prague

The project introduced innovative technologies to improve efficiency and transparency in the food sector, emphasising blockchain's role in strengthening trust and cooperation within the supply chain.

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https://blockchainforagrifood.eu/

https://www.linkedin.com/company/blockchain-for-agrifood-educators/