



## Welcome to the ARISE Final Newsletter!

ARISE is an EU-funded project that started in September 2021 and will finish in October 2024.

In this last edition, you will learn about the ARISE project's final results on training and skills recognition throughout Europe, including the ARISE e-learning platform, the self-assessment tool, the task-based method for recognition and accreditation, and the gamified micro-learning training content.

As the last month of the project begins, the ARISE team would like to remind you that this is your last chance to enroll in the ARISE e-learning platform, provide your feedback and provide material products and system catalogs as supporting material for the learning units. Check for more information in the newsletter.

We hope to see you at the ARISE final event in Dublin.

The ARISE project team

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ARISE FINAL EVENT

**15th October 2024**

TU Dublin Bolton Street Campus

Dublin, Ireland

09:00 - 11:45 am



Artificial Intelligence, Sustainability  
and BIM for Design and  
Construction  
upskilling

This project has received funding from the  
European Union's Horizon 2020 research  
and innovation programme under grant  
agreement No 101033864



On October 2024, the ARISE project officially concludes, but before that, ARISE is organising an exciting event lined up. Artificial Intelligence, Sustainability, and BIM for Design and Construction upskilling is a half-day and in-person event taking place at TU Dublin, Ireland. Join us and learn about the ARISE e-learning platform and its content on BIM applied to energy efficiency and the next steps of Artificial Intelligence in construction.

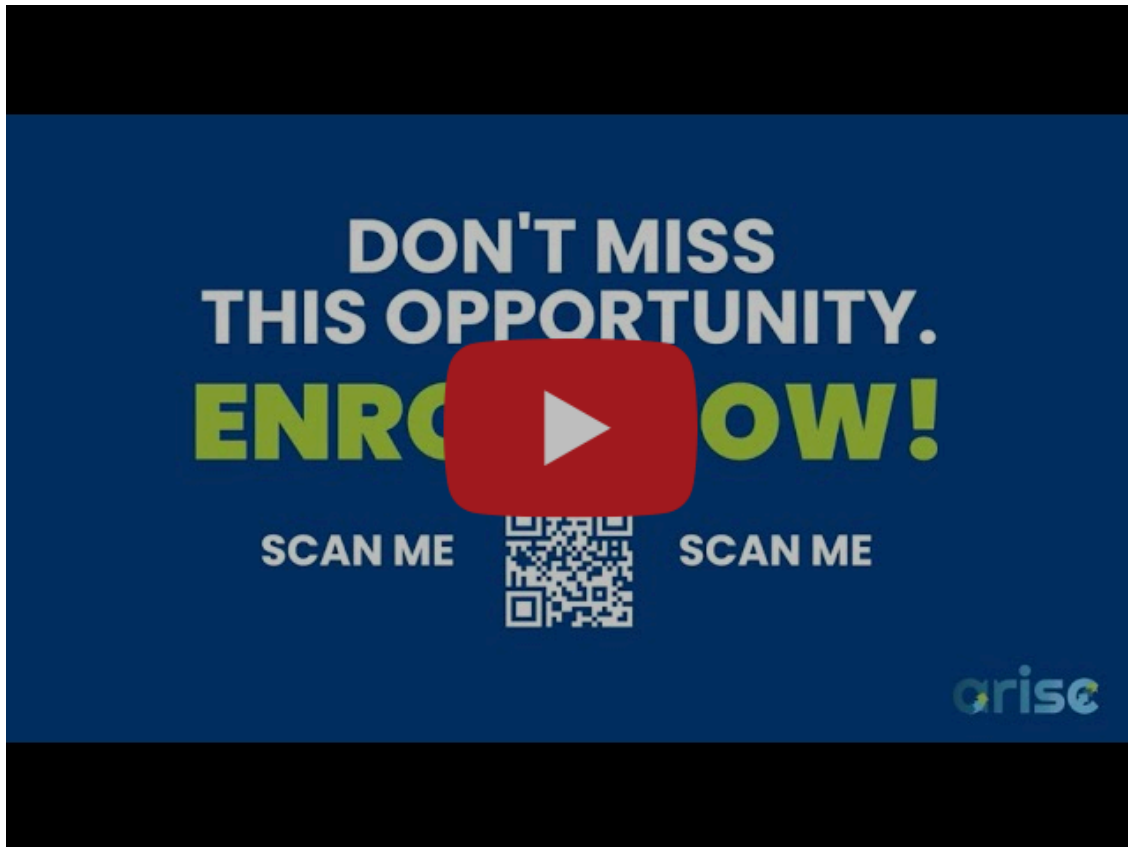
Date: 15 October 2024

Time: 9:00 - 11:45 (CET)

Place: TU Dublin Bolton Street Campus, Ireland

**Registration link and agenda**

## ARISE e-learning platform



The ARISE e-learning platform offers free learning on BIM and energy efficiency in buildings for the design and construction sector. This e-learning platform provides micro-learning units available anywhere, anytime, covering an introduction to BIM, BIM terms and definitions, BIM benefits, and BIM tools for energy. The short-duration learning modules offer clear and straightforward content adapted to the busy life of professionals and workers. The learning pathway can be personalized to match the skill gap of each learner. In less than an hour of study, the learning units provide clear, straightforward content relevant to the working lives of professionals. The e-learning platform is a powerful tool for improving the skills of teams based in different locations.

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## Enrol in ARISE platform now

More than 2,000 people have already enrolled in the platform. Don't miss this last opportunity to access the free content on BIM applied to energy efficiency.

[Enrol here](#)

Not sure how to enrol? We prepared some tutorials for you.

User registration - [here](#)

Course registration and navigation - [here](#)

User registration - [here](#) (Portuguese language)

Course registration and navigation - [here](#) (Portuguese language)

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## Feedback on the e-learning platform

Are you one of the ARISE e-learning platform users?

Great! We would like to hear from you!

How was your experience on the platform?

Are there any improvements that the ARISE team could make?

Provide your feedback until the end of October.

[Feedback here](#)

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## Contact us about e-learning platform

systems, and equipment to provide their digital catalogues and product specifications. These resources will be included in the ARISE training module as reference material, promoting access and dissemination throughout the construction sector across Europe.

Contact us here

COURSE LIST | MODULES

MODULES TRAINING PLANS SORT BY DATE SORT BY NAME Search here

<p><b>TRAINING FOR TRAINEES</b> 60</p> <p>WELCOME (TRAINEES)</p> <p>Registered Trainees for ARISE Trials sample period? In this module you will learn how the training programme works; how it was developed to meet your needs, in whatever role you have in the AEC</p> <p>XP 0 0 0</p>	<p><b>WHAT IS BIM - BIM FUNDAMENTALS</b> 15</p> <p>Understand and be able to explain the context and essentials of BIM: What is BIM, what and whom it involves, its context in the wider digitalisation of the AEC Industry BIM's role as an enabler for energy</p> <p>XP 1 3 1</p>	<p><b>WHAT IS DIGITAL CONSTRUCTION?</b> 30</p> <p>Understand what digital construction involves, including why! How it encompasses all of the construction supply chain and built asset/project lifecycle.</p> <p>XP 2 3 1</p>	<p><b>DIGITAL CONSTRUCTION - BENEFITS TO AEC</b> 15</p> <p>Understand the benefits of digital construction on the AEC industry.</p> <p>XP 1 3 1</p>	<p><b>BIM TERMS &amp; DEFINITIONS - INTRO</b> 30</p> <p>Implementing BIM? Then, knowledge of some essential key terms is essential! Get past the jargon and learn some of the basic important terms to allow progress in your BIM journey.</p> <p>XP 2 6 1</p>	<p><b>OVERVIEW OF BIM BENEFITS - INTRO</b> 30</p> <p>4.0 revolution digitalisation is changing the AEC industry's workflows, methods, processes and tools. BIM is often in the center of this. What benefits adopting BIM brings to the industry and its</p> <p>XP 5 9 1</p>
<p><b>BIM DIMENSIONS - INTRO</b> 15</p> <p>What are BIM Dimensions? You probably already heard about BIM levels or stages, but what about these Dimensions? Learn how many are there, what do they mean and how they apply into your role and</p> <p>XP 1 3 1</p>	<p><b>BIM MATURITY STAGES</b> 15</p> <p>Ever heard of BIM Maturity Stages? Not sure what they are, what it means and what it involves? This FREE short micro training unit is just what you need to get up to speed! We will break it all down.</p> <p>XP 1 3 1</p>	<p><b>BIM STANDARDS I</b> 30</p> <p>The following module aims to describe the standards adopted in the context of the BIM process and its relevance to the industry. It relates to: -understanding the application and standards of BIM.</p> <p>XP 2 6 1</p>	<p><b>BIM TOOLS FOR ENERGY EFFICIENCY - INTRO</b> 45</p> <p>BIM offers digital solutions to enable and help the AEC industry to achieve low-energy building stock. Learners will know and be able to illustrate how BIM can be utilised to reduce energy loss</p> <p>XP 21 27 1</p>	<p><b>PANORAMICA DEI VANTAGGI DEL BIM -</b> 30</p> <p>La rivoluzione 4.0: la digitalizzazione sta cambiando i flussi di lavoro, i metodi, i processi e gli strumenti del settore AEC. Il BIM è spesso al centro di tutto questo. Quali vantaggi porta l'adozione del BIM al settore e ai suoi</p> <p>XP 2 6 1</p>	<p><b>TERMINI E DEFINIZIONI BIM</b> 30</p> <p>Implementare il BIM? Quindi, la conoscenza di alcuni termini chiave essenziali è essenziale! Supera il gergo tecnico e apprendi alcuni dei termini più importanti per consentire progressi nel tuo percorso BIM.</p> <p>XP 2 6 1</p>
<p><b>DIMENSIONI BIM - INTRODUZIONE</b> 15</p> <p>Cosa sono le dimensioni BIM? Probabilmente hai già sentito parlare di livelli o fasi BIM, ma che dire di queste Dimensioni? Scopri quanti ce ne sono, cosa significano e come si applicano al tuo ruolo e al tuo flusso</p> <p>XP 1 3 1</p>	<p><b>BIM REQUIREMENTS - EIR</b> 15</p> <p>The following module aims to describe the Exchange Information Requirements in the context of the BIM process and its relevance to the industry.</p> <p>XP 1 3 1</p>	<p><b>BIM REQUIREMENTS -CDE</b> 15</p> <p>XP 1 3 1</p>	<p><b>BIM MODELLING - TITLE BLOCKS</b> 90</p> <p>This module part of the BIM Application Specialism, it's part of the knowledge skillset required in subspecials involving:</p> <ul style="list-style-type: none"> <li>Be able to create Templates</li> <li>Producing a Titleblock</li> </ul> <p>XP 90 0 0</p>	<p><b>BIM REQUIREMENT-SOFTWARE &amp; HARDWARE I</b> 60</p> <p>Understand and be able to explain the context of software and hardware requirements of BIM.</p> <p>XP 4 12 1</p>	<p><b>BIM INFORMATION MANAGEMENT &amp;</b> 30</p> <p>Understand and be able to explain information management and application of BIM.</p> <p>XP 2 6 1</p>
<p><b>ARISE_H&amp;S IN A DIGITAL ENVIRONMENT OFFICE</b> 45</p> <p>As we use computers and digital devices in a digital construction (including BIM) digital environment workflow, there are basic Health &amp; Safety considerations to have in mind and implement, while using this</p> <p>XP 0 3 0</p>	<p><b>ARISE_H&amp;S IN A DIGITAL ENVIRONMENT IL SITE</b> 45</p> <p>As digital devices become now an integral tool of works on site, learn some of the basic Health &amp; Safety considerations to have in mind and implement, while these digital devices on site.</p> <p>XP 0 0 0</p>	<p><b>ARISE_RESOURCES-SOFTWARE ACCESS</b> 0</p> <p>(mlang other)This module is for support and assistance of learners, regarding accessing software and resources for the training, closely relevant in the context of BIM Modelling Training modules (mlang)</p> <p>XP 0 0 0</p>	<p><b>UI Elements &amp; Hierarchies</b> 45</p> <p>ARISE_BIM MODELLING_UI-HIERARCHY &amp; ELEMENTS</p> <p>This module part of the BIM application specialism-BIM modelling, it's part of the knowledge skillset required in subspecials involving: Creating a BIM model. It covers: Understand and be able to</p> <p>XP 30 0 0</p>	<p><b>UI Navigation</b> 60</p> <p>ARISE_BIM MODELLING_UI_NAVIGATION</p> <p>This module part of the BIM Application Specialism-BIM modelling, it's part of the knowledge skillset required in subspecials involving: Creating a BIM model. It covers: Understand and be able to</p> <p>XP 40 0 0</p>	<p><b>UI Selection Tools</b> 45</p> <p>ARISE_BIM MODELLING_UI_SELECTION</p> <p>This module part of the BIM Application Specialism-BIM modelling, it's part of the knowledge skillset required in subspecials involving: Creating a BIM model. It covers: Understand and be able to</p> <p>XP 30 0 0</p>

# Gamified micro-learning training contents

users in the platform. The innovative gamification engine provides trainees earn experience points (XP) every time they successfully complete a learning unit. As participation grows, individual tracking scores show the learner's position compared to other learners, motivating continuous engagement in the learning activity. Each learning unit's complexity is indicated by the number of starts, with beginner topics featuring a lower start count. The system also provides badges when the learning unit is completed. The badges are connected to blockchain ensuring its authenticity and creating a large European repository for recognition and certification.

[Discover ARISE gamified micro-learning training contents here](#)



## ARISE digital skills maturity model

The digital skills maturity analysis model is intended for individuals and organizations so that they can gain a clear view of how to

The model connects maturity levels for digitalization to recommended skill levels for different involved professions. This gives organizational leaders a view of what their employees will have to learn to make the organization grow toward the next level of applied BIM and digitalization.

The model is integrated within the [BUILD UP Skills Advisor app](#) to advise learners on personalized learning pathways. These pathways are generated based on data from a self-assessment in this app. For companies, a group assessment can be done by collating the self-assessments of the individuals in a group.

The skills maturity model addresses four professional groups (designers, contractors, clients, and public administration) active in the building life cycle (design, construction, operation). In this way, the recommended level of proficiency for each professional involved is mapped for each maturity level.

[Read ARISE digital skills maturity model article](#)



## ARISE Articles on BUILDUP

The series of 9 interlinked articles on the topic of 'Currency of Skills' explain skill as a value in the construction sector. The articles below

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and economic advantage, delivering enhanced career opportunities, and providing the pathway and advantage of lifelong learning. The articles are intended to stimulate debate and knowledge exchange as they address the following title on skill as the value.

1. [Skills as a currency in the construction sector](#)
2. [Economic Value](#)
3. [Career Opportunity](#)
4. [Lifelong Learning](#)
5. [Economic Value](#)
6. [Providing Social Mobility](#)
7. [Global Competitiveness](#)
8. [Skills Fit – Energy Optimisation](#)
9. [Summary & Conclusion.](#)

Read all ARISE articles on "Currency of Skills" Series

The screenshot shows the Zenodo interface for the ARISE Project. The top navigation bar includes 'zenodo', a search bar, and tabs for 'Communities' and 'My dashboard'. Below this, the 'arise' logo and 'ARISE Project' are displayed, along with a 'New upload' button. The main content area shows search results for 'arise.h202...'. The results are sorted by 'Newest' and show 11 results found. Two records are visible:

- Policy Brief: Skills for Green Digital Buildings** (December 18, 2022 v1) - Open. Description: 'New competencies are essential for the smooth introduction of new technologies in any field, none so more than the building industry. Here new technologies can impact the entire working construction cycle. Designers have to learn how to introduce new technology to make the buildings more efficient and resilient to climate changes, producers need...'. Part of ARISE Project, EU Open Research Repository (PIRC). Uploaded on August 2, 2023. 19 views, 13 downloads.
- Qualification framework for digital skills** (April 12, 2022 v1) - Journal article, Open. Author: Paul McCormack. Description: 'The ARISE project has developed a qualification framework of sustainable energy skills leveraged by digitalisation, including building information modelling (BIM)'. Part of ARISE Project, EU Open Research Repository (PIRC). Uploaded on April 12, 2023. 46 views, 46 downloads.

## ARISE Articles on Zenodo Platform

Over the last 3 years, the ARISE research team has continuously been working on different training materials, and digital tools, and upskilling on energy efficiency and BIM. Read more about all the research work done by ARISE partners on the [ARISE website](#) and Zenodo platform below.



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