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Step into BIM – digitising VET



Si! BIM project is one of the many projects in the Erasmus+ programme dealing with BIM. 48 construction projects related to BIM have been awarded under Erasmus+ in the period 2016-2020.

The aim of the Step into BIM (Si! BIM) project is to provide demonstrable innovation and added value to vocational education and training. It focuses on improving digital skills and awareness with a particular focus on the use and relevance of BIM in the construction sector in the EU. Good digital skills are essential in today's workplace and are the area where most workers are critically lacking.

This project will help employers and employees address the challenges of BIM by creating an accessible learning portal. It will enable the improvement of digital skills knowledge and awareness for both existing and new employees in the industry. Innovative and modern technologies will be used to support digital training and provide participants with greater career opportunities and improved professional mobility in the construction industry VET.

The results from the testing will evaluate the effectiveness of the training material and learning taking place as well as how best to utilise the training material in order for learning to take place by the apprentice in their current or future employment. The initial impact will concentrate on the apprentices who take part in the testing process to ensure that the final material are improved through an iterative process Post testing impact and sustainability will be achieved once the final training material is made available through the project website for all construction apprentices in the partner countries to use.

The results of the testing will assess the effectiveness of the training materials and the learning that is taking place, and will indicate how best to use the training materials to enable trainees to learn in their current or future employment. Initial impact will focus on trainees participating in the testing process to ensure that the final material is improved through an iterative process. Impact and sustainability will be achieved once the final training material is made available to all construction trainees in the partner countries through the project website.

Multiplier events

As part of the Si! BIM project, we organized a multiplier event in each of the project partner countries, where we presented the final results of the project.

Spain

Our multiplier event was held on September 23 and was a face-to-face meeting attended by ten participants. We had prepared a short presentation with information about the project, the partners, the objectives and the main outcomes. Afterwards, we



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presented the training content on the website and explained each unit in detail, and we even did a self-assessment with the participants!



Germany

The meeting took place in a hybrid mode with 8 German participants having attended in presence as well as 16 national and international participants having been connected online.

The German SIBIM multiplier event took place in the morning of Thursday, 9th of September 2021 in Cologne / Germany. This Multiplier Event has been moderated by Bildungszentren des Baugewerbes (BZB). Stakeholders stem from vocational education and training centres, universities, branch associations, institutes dealing with sustainability aspects, human resource management, private companies and chambers.

Mr. Frank Bertelmann-Angenendt (BZB) provided the stakeholders with a comprehensive introduction of the SIBIM aim, its measures and eventually the expected results. He explained on the one hand the more theoretical aspects from the work packages (intellectual outputs) as well as a practical insight into how to use the learning modules in practice.

He demonstrated an entire cycle of entering the website and selecting the appropriate language version via starting the learning module and go through it. The different elements of the learning material – particularly the systematic how to move within chapters and from chapter to the menu and so on – were extensively shown with leaving the participants the opportunity to test it by themselves in parallel.

The additional sections of FAQs and the quizes were presented with the hint that both should be experienced once the learner has gone through the respective chapter of the learning materials.

The reactions by attendees were positive in the way that they rate the easy access in a positive way. The same goes for navigation once being in the learning process and the opportunity to eventually check what has been learnt. The level of contents was agreed on being appropriate for the target groups.

Mr. Bertelmann-Angenendt mentioned that SIBIM results were recommended as best practice example to be added to the Construction Blueprint1 project in order to be further spread around in Europe.

	Project Day: 9th of September 2021 Chat Dateien Details Terminplanungs-Assistent Besprechungsnotizen Whiteboard Anwesenheit +
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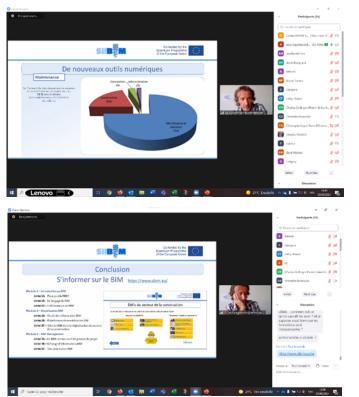


EVENT:	project-no.: 2019-1-UK01-KA202-061938	
	DATE/TIME:	9th of September 2021, morning session
	ORGANIZATION/PLACE	Cologne / Germany (and online) - hybrid meet



Main target Achieved results Content demonstration Considerations Discussion

Belgium





Slovenia

The dissemination event took place on June 2, 2021 online only. In Slovenia, we shared the results of the project with more than 300 participants live, and the recording was viewed by an additional 100 participants in 3 months. SI! BIM's course and many newly prepared materials were presented by Valentina Kuzma from GZS ZGIGM. The course was published at just the right time, as in Slovenia the obligation to use BIM will also be required in the amendment to the Construction Act.

The event was followed by two operational stakeholder meetings on a smaller scale; meeting with principals, VET teachers and trainers of secondary and higher construction (vocational) poles on 23 June 2021 and 13 September 2021. We agreed that the new material will be included in a new educational module, which the GZS ZGIGM together with other stakeholders will propose for regular use. education in the mentioned educational institutions in the school year 2021/2022.

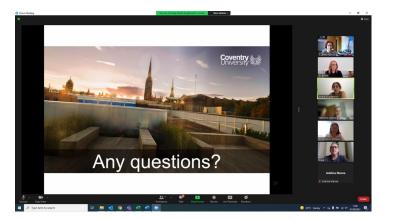
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Last project meeting, September

At the last partnership meeting we shared where we are and what we have accomplished in a two year project entitled BIM. The course and new materials we prepared were also tested by teachers/instructors in classrooms and with students. We agreed that the results achieved served their purpose and offered a free course for the first introduction to BIM. The next, more in-depth steps need to be taken by the providers of BIM themselves to offer free 3D models BIM to educational institutions, to which additional BIM dimensions have been added. The potential of BIM is great and staff need to deepen their knowledge and skills in using and interpreting data from the BIM environment. We hope to see you again. The Coventry College team have made their learning environment SIMULATION CENTER available for distance learning so that teachers/mentors from other countries can use data models already created and use them in regular lessons with students.





Results

The Si!BIM course aims to give a simplified, easy to understand overview of BIM (Building Information Management). The course covers the following:

An introduction to the overall framework of the BIM process, the standards used and specific terminology relating to BIM to help the learner understand how BIM integrates into the construction industry and all the advantages and issues are identified. The practical aspects of where BIM is used within various stages of a construction project with an overview of the various collabo-

ration tools and modelling platforms as well as the advantages of digital technology in construction processes.

The strategic management value of BIM in the construction industry and a comparison to traditional processes. The learner will also understand the overall operation of BIM in terms of information workflows, protocols and data sharing.

The material is divided into 3 learning units consisting of 3 topics each.

Unit 1: Introduction to BIM	_
Topic 1A - Why BIM?	SilB
Topic 1B - Language of BIM	HORE ADDIT PARTNERS MINOS RUMMES COURSEMANTINAL - TVALLANDON CONFLICT
Topic 1C - BIM collaboration	The ESM standard and tage and approximation was needed as a standard approximation Management. Proceedings of the American Standard and American Andre Management and and approximation Management and and approximate American Andre Management and and approximate American Andre Management and American Andre Amer American Andre American
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Topic 3A - BIM as project management tool	
Topic 3B - BIM Information Delivery Cycle	• • • • • • • • • • • • • • • • • • • •
Topic 3C - BIM Documentation	

Each topic includes interactive learning materials that will give the basic understanding of the topic, frequently asked question (FAQ) – to further expand understanding of the most relevant points and a multiple choice quiz to reinforce understanding of the topic.

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HOW TO DEMONSTRATE USE OF SI!BIM COURSE, OUR HINT FOR EXPLOITATION The European Vocational Skills Week Team proposal for teachers, OCT 2021: SELFIE

"Building a School Digital Strategy with the SELFIE Tool" will be launched on the School Education Gateway Teacher Academy on 25 October 2021. The course is free, online and open to teachers and other school stakeholders from any country. SELFIE (Self-reflection on Effective Learning by Fostering the use of Innovative Educational technologies) is a free tool designed to help schools embed digital technologies into teaching, learning and assessment. SELFIE has a strong basis in research and was developed based on the European Commission framework on promoting digital-age learning in educational organisations. SELFIE anonymously gathers the views of students, teachers and school leaders on how technology is used in their school. This is done using short statements and questions and a simple 1-5 answer scale. The questions and statements take around 20 minutes to complete. Based on this input, the tool generates a report – a snapshot ('SELFIE' :-)) of a school's strengths and weaknesses in their use of technology. SELFIE is available for any primary, secondary and vocational schools in Europe and beyond, and in over 30 languages. It can be used by any school – not just those with advanced levels of infrastructure, equipment and technology use. Designed by and for schools SELFIE is an initiative of the European Commission and is funded through the Erasmus programme. It is free of charge for every school.





THE STEPS WE HAVE MADE

- 1. Si!BIM course specification FINALISED
- 2. SilBIM Vocational Open Online Course (VOOC):
 - UNIT1 Introduction to BIM FINALISED
 - **UNIT 2 BIM Modelling FINALISED**
 - UNIT 3 BIM Management FINALISED
- 3. Pilot training workshop FINALISED
- 4. Pilot testing and workshop FINALISED
- 5. Si!BIM Info Days (UK, DE, SI, ESP, BEL) FINALISED

CONTACT REPRESENTATIVE FOR MORE: Coventry Universi-

ty, Sir John Laing, COVENTRY, CV1 5FB, T: <u>aa5163@coventry.ac.uk</u> | W: <u>www.coventry.ac.uk</u>