

Project title	Innovation in Construction Sites
Filter by (underline as many as relevant)	Education Employment & entrepreneurship
Category (underline only 1)	Erasmus Plus
Donor(s)	INAPP
Program	Erasmus Plus_ KA2_ VET
Contact	Scuola Costruzioni Vicenza Andrea Palladio  Lisa Pavan <a href="mailto:l.pavan@centroedilevicenza.it">l.pavan@centroedilevicenza.it</a>  Nadia Di Iulio <a href="mailto:nadia@aldaintranet.com">nadia@aldaintranet.com</a>
Lifespan	24 months (11/2019-10/2021)
Project description	<p><b>Partnership</b></p> <ul style="list-style-type: none"> <li>• SCUOLA COSTRUZIONI VICENZA ANDREA PALLADIO(Lead Partner)</li> <li>• BILDUNGSZENTREN DES BAUGEWERBES EV - BZB</li> <li>• GOSPODARSKA ZBORNICA SLOVENIJE -</li> <li>• WESTDEUTSCHER HANDWERKSKAMMERTAG - WHKT</li> <li>• COVENTRY UNIVERSITY</li> <li>• FUNDACIÓN LABORAL DE LA CONSTRUCCIÓN - FLC</li> <li>• UNIVERSITAT DE VALENCIA</li> </ul> <p><b>ICONS at a glance</b></p> <p>This project intends to respond to the skills gap between professionals and non-professionals involved in the operationalization of the BIM, by empowering the latter in understanding BIM designed projects through specific training modules and the support of an APP.</p> <p>ICONS will contribute to improve the job quality of the workers through increasing their digital skills and BIM knowledge, and consequently in the promotion of productivity and sustainability of the construction sector in Europe.</p> <p><b>Objective</b></p> <p>Create a tailor-made type of training model in order to translate the highly technical, complex set of information contained in a BIM structure, into a modality, which can be read, understood, processed by non-professionals.</p> <p><b>General project activities</b></p> <p>The core of the project are <b>three Intellectual Outputs (IOs)</b>, foreseeing activities aimed at consolidating strategic and operational cooperation between actors within the construction sector.</p> <p>Once they have been finalized, a <b>Training for Trainers</b> will take place, where expert trainers from partners' country will be instructed on how to use the training modules and the functioning of the APP, as well as how to measure and refer to feedback from the learners.</p> <p><b>Pilot tests</b> will be implemented at local level by trained experts, to validate and adjust BIM tools developed within the project.</p> <p>Finally, after training modules and APP validation, <b>local events</b> will be organized by all partners to disseminate project results towards international, national and local</p>

stakeholders within the construction sector.

**Focus on the Intellectual Output (IOs)**

IO 1: «Compliant BIM-Oriented training course for workers 4.0 in the construction field»

It is a training conceived for workers of the construction sector, aimed to improve their skills in reading and processing technical information, accordingly with the integrated project system introduced by the so – called Building Information Modelling

IO 2: «App for workers 4.0 in the construction field»

In parallel with the development of the training modules, an app will be developed specifically studied for blue – collar workers on the building sites. The app will be a pedagogical tool, a sort of intuitive manual, with clear and ready – to – go instructions for simple and key actions that the worker might need to do on the building site.

IO 3: «E-guide “Road to digitalization for workers 4.0: methods and tools”»

The e-guide will enclose the contents of the IO1 and the main indications on how to use the App (IO2) and will be available in 4languages: Italian, German, English, Slovenian and Spanish

**Results**

- 1) A specific training course for the blue-collar workers of the building sector, aiming to make technical information typically addressed to the professionals easy to understand and elaborate
- 2) An innovative app, where the contents of the training are stored and easily accessible by workers during their daily job in the building site. It should be a technical support for the workers to help them using the information (software, etc.) of the integrated management system of the construction site.
- 3) An E-guide, with the contents of the training, as well as the recommendations developed in response to the feedback received from the workers after testing the app.
- 4) Increased knowledge of the workers on the key information regarding the construction life cycle and the systems needed to perform them (software, etc.) and potentially contained in the BIM.
- 5) Better coordination and communication between the actors involved in the first phases of the building process, accordingly with the BIM structure (programming, design) and those involved realization and maintenance.

**Target groups**

- VET Providers

They will participate in the International Training of Trainers (once the training package and the app will be ready) to be duly trained on how to transfer this information (contents and methods) to the end users. Twelve trainers will attend the Training of Trainers, representing partner organizations and other associated VET providers which are part of their networks

- STUDENTS AND WORKERS

Students who are enrolled in VET training courses in the construction field, as well as foremen and blue-collar workers. Attention will be paid to have a balanced selection of both students and workers with consolidated experience.

	<p><b>Communication and dissemination</b></p>
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A communication & dissemination plan will support the aims and objectives of the project, promote the activities and disseminate its results.