

Project Title: Digitalization of educational institutions: From digital TWIN to digital LAB.

Project's objectives

The project addresses the digitalization and training use of the built environment of educational centers. The targeted levels are Bachelor and Tertiary VET, although it is envisaged the adaption and exploitation of results at secondary education as a mean to ensure the maximization of Project impact and optimization of resources.

The **general objective** of the project is to provide students with greatly increased digital capabilities through a stack of linked processes/products applied to the modernization of both content and teaching methodologies.

The **specific objectives** of the project are:

-To generate a methodology to teach students, mainly from higher education in technical branches, to create the digital twin of the buildings of their school, through the use of different digitalization techniques.

-To make it possible for educational entities to obtain the "digital twin" of the buildings - indoors and outdoors- to be used as learning and creativity tools (digital labs) applicable to different educational levels.

-To demonstrate the potential of exploiting the digital twin of schools as a living element (in continuous evolution) where to apply many of the digital technologies that dominate the present and future. These are Building Information Modelling (BIM), Mobile, Virtual Reality, Mixed Reality, Drones, Lidar, etc.

-To promote the co-creation of new strategies and experiences of remote teaching and collaboration using the digital twin of the real environment of the educational center. This will make use of gamification (video-games) and immersive technologies as elements that increase the connection with students and their involvement in teaching.

Current partners

-University College of Northern Denmark <https://www.ucn.dk/english/home>

-Segura Valley High School <http://iesvalledelsegura.es/>

-Construction Technology Center of the Region of Murcia <http://ctcon-rm.com/en>

Partners sought

-A higher educational (Tertiary VET, University) institution with technological training programs, with experience as coordinator of ERASMUS+ KA203 projects. Its entity must belong to a country other than Denmark and Spain.

Contact email:

mminano@ctcon-rm.com

Deadline for expressions of interest: January 25th, 2021