Co-funded by the European Union

NEWSLETTER 2

DiTwin digital twin for VET schools

THE PROJECT

DiTwin – Digital Twin for VET schools is a 28-month Erasmus+ funded project (KA220-VET) launched in October 2023. Its goal is to integrate Digital Twin technology into VET curricula, enhancing student learning and addressing key challenges in vocational education.

The project focuses on modernizing curricula, bridging facility gaps, and improving teachers' digital skills, preparing students for Industry 4.0.

TARGET GROUPS

The project's MAIN TARGET AUDIENCE comprises secondary VET school teachers, educators, and all stakeholders involved in the school-to-work transition process within the VET sector.

The ULTIMATE RECIPIENTS encompass secondary VET school students.

This newsletter provides a brief overview of DiTwin and highlights its progress so far.

Progress so Far

Competence Framework

A comprehensive Competence Framework has been finalized, outlining the roles and skills necessary for success in Industry 4.0 environments.

This framework serves as a roadmap for developing the workforce of tomorrow, highlighting the importance of combining technical expertise with problem-solving abilities and adaptability.

Building on this foundation, several training modules have been developed to address the critical needs of Industry 4.0 roles.

Progress so Far

DiTwin Modules

The following **modules** have been created to prepare students for key Industry 4.0 professions:

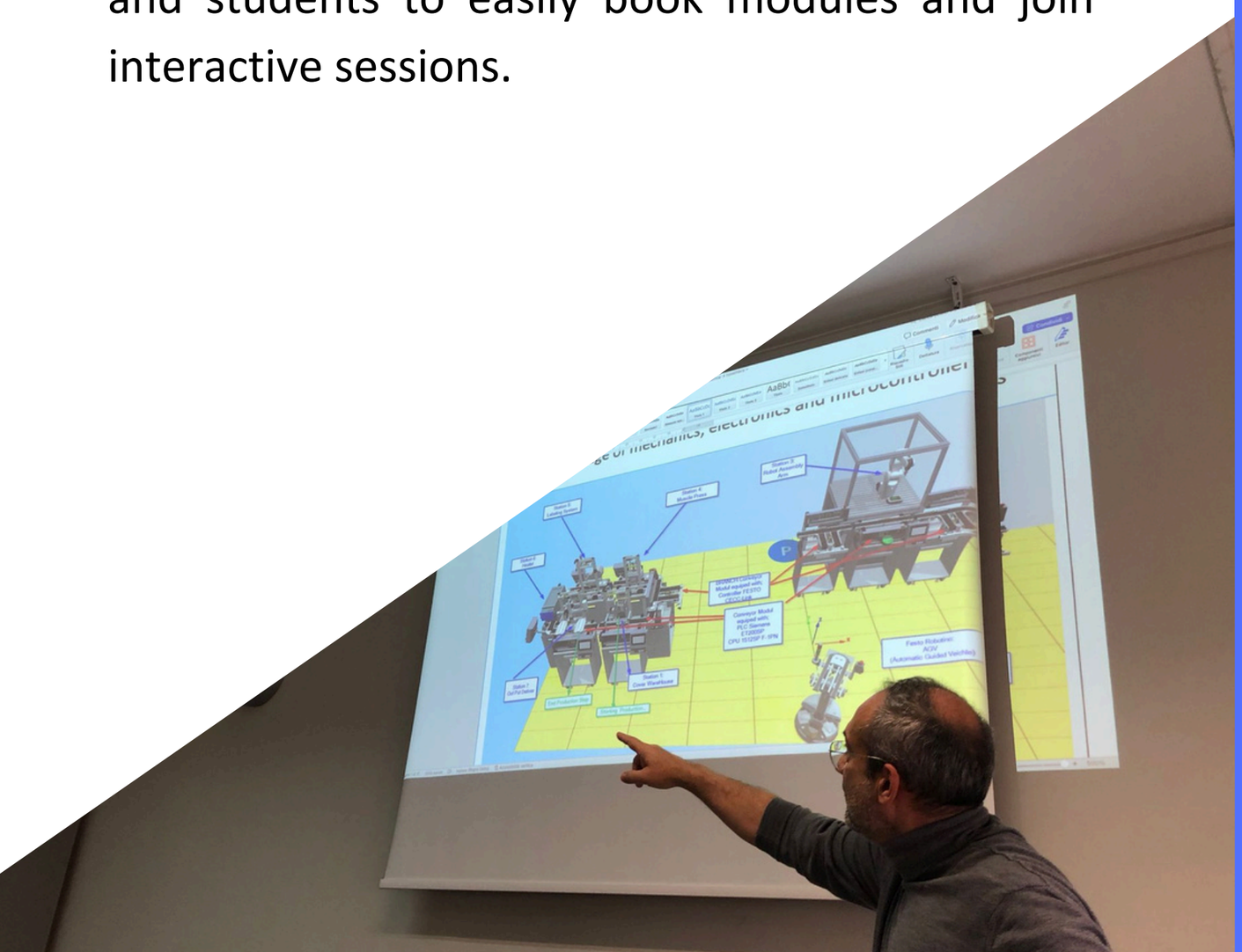
- Additive Manufacturing Technician: Specializing in 3D printing and advanced manufacturing processes.
- Robot Machines Technician: Focusing on the programming and maintenance of robotic systems.
- Automation Technician: Preparing learners for the challenges of industrial automation and machine programming.

These modules leverage **Digital Twins**—digital replicas of physical systems—to provide immersive, hands-on learning experiences. By interacting with virtual simulations seamlessly integrated with real-world devices, students will gain both theoretical knowledge and practical skills.

Coming Soon

Innovative Learning Platform

An innovative online platform is set to transform access to education and training. With a seamless booking system, it will allow schools and students to easily book modules and join interactive sessions.



PROJECT RESULTS

DiTwin Modules

Digital Twins for VET students aiming at developing the competencies needed by Industry 4.0.

DiTwin Platform

A free online platform allowing teachers and students access and use the DiTwin Modules at school.

DiTwin Handbook

It provides VET teachers and trainers with tools and educational resources to implement, support, manage and assess effective Digital Twin-based activities.

DiTwin Transnational Training Course

A Transnational Training Course for VET teachers aiming at developing the needed technical and pedagogical competencies for implementing and managing Digital Twin-basedì activities at schools.

DiTwin Video Tutorial

An easy guide for VET teachers on how to implement DiTwin Modules in class.

DiTwin Demo Event

An online workshop presenting the DiTwin platform and its use.

The Partners

DiTwin- Digital Twin for VET schools activities are implemented by a consortium composed of 7 organisations coming from 5 different European countries.

LEARNABLE

DIGITAL SMART

INNOVATION FRONTIERS

TRAINING VISION IRELAND

TECHNOLOGY PARK OF ANDALUSIA PTA

PEDAGOGICAL UNIVERSITY OF KRAKOW

UNIVERSITY OF MALAGA

Let's Keep in Touch

PROJECT WEBSITE

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Agenzia nazionale Erasmus+ INAPP. Neither the European Union nor the granting authority can be held responsible for them.

Project number: 2023-1-IT01-KA220-VET-000154611