



NEWSLETTER #1

The project *21st Century Students - Promoting Digital Manufacturing and Design (DM&D) in Schools* is connecting 7 partners from 6 different countries working together, over 3 years, on resources for school students to help upskill in the area of digital design and manufacturing(DM&D).

OVERVIEW OF PROJECT

21st Century Students is co-funded by the Erasmus+ Programme of the European Union. The project is grounded on the premise that students of all abilities can improve their STEM skills through digital manufacturing and design, in response to Industry 4.0, and in order to create young people who are ready for a digital-driven world of work.

The project will foster the creativity and innovation skills of pupils through hands-on and technology-based digital manufacturing tools to drive STEM education in non-traditional ways. It will promote teaching experiences that are aligned to the modern workplace, by creating similar environments through the use of technologies and tools that are endemic to Industry 4.0.

The project commenced in October 2020 and the consortium consists of 7 transnational partners with expertise in education and digital manufacturing. The main outputs of the project are a learning academy, digital manufacturing learning lab, an implementation handbook and a teacher 4.0 training programme.

THE OBJECTIVES OF THE PROJECT

The primary target group for the project is students (aged 11-14) and their educators.

The objectives of the project include;

- creating a transnational network of educators and digital manufacturing experts which promote effective STEM learning in schools;
- preparing students for the Industry 4.0 revolution;
- to develop an openly accessible 'Digital Manufacturing Learning Lab' to support the effective delivery of DM&D education both within & beyond the classroom;
- and to strengthen the capacity of all organisations working in schools education to instil quality STEM, enabling them to lead the way in Industry 4.0 education and meet the needs of an increasingly digital manufacturing sector.



INTELLECTUAL OUPUTS

Over the course of the project the partners will work on developing 4 intellectual outputs. These outputs will be available to use by students, educators and industry professionals to help develop and improve skills and knowledge in the area of Industry 4.0 and digital design & manufacturing technologies and processes.

The outputs include:

1. Learner Academy
2. Digital Manufacturing Learning Lab
3. Implementation Handbook
4. Teacher Training Programme

Visit www.21st-century-students.com/about/ to find out more on each of these.

PARTNER ORGANISATIONS WORKING ON THE PROJECT:



STAY CONNECTED WITH THE PROJECT

Find out more about the project via our website at www.21st-century-students.com or alternatively keep up-to-date with the development of the project by following our [Twitter](#) page or [Facebook](#) page.