

DEMO OR DIE

(Develop Engaging Massive Open Online Resources for Designers Innovative Education)

DEMO OR DIE is a project that aims to promote Open Access to Online Training in 3D Printing by introducing “non-manufacturing” professionals and other potential professionals to embrace digital technologies. The project started on 1.11.2020 and will run for 24 months.

The DEMO OR DIE project will focus on specific training/skills needs that were identified during the COVID-19 pandemic which has affected several countries across Europe. It aims to increase the level of knowledge, skills and competencies that individuals and companies will need to acquire to become proficient and confident in 3D Printing. In addition, transversal skills such as communication, time management, problem solving, critical thinking, creativity and teamwork will also be targeted.

For future manufacturers such as students, the DEMO or DIE project will enable local communities to mitigate the impact of school closures by facilitating the continuity of education through remote learning. As most educational institutions have closed to contain the spread of COVID-19, these national closures have negatively impacted over 91% of the world’s student population. The project is innovative in a way that it answers the identified needs of online teaching and also closing the identified gap of knowledge in 3D printing. The project results are fully aligned with the European priorities to Promote Innovative Training Practices in the digital era.

During the COVID-19, one of the first identified needs was related to the shortage of Personnel Protective Equipment (PPE) that was transversal across different countries. One of the ways to tackle the shortage of PPEs was to use 3D Printers. However, there were many questions raised about the quality of the equipment produced and which type of 3D Printing process or materials could be used.

Considering this background, DEMO or DIE project is expected to have a positive impact based on 3D Printing training. Some of the foreseen activities are: Mapping of 3D printing Design Software Functionalities; Development of Online Course/Modules addressing from Design Rules, Materials Characteristics to Process Applicability, among other contents; Development of Innovative and Interactive Learning Activities for Design and Operations; Development of Online Assessment Tools; Analysis and Adaptation of existing Platforms to accommodate the developed Learning Units and Tools; Trainers’ capacity building regarding Online Course/Modules on 3D Printing Design, training materials and assessment tools; National dissemination and testing events to promote DEMO or DIE results; a European Conference to promote the project results and engagement with key stakeholders from 30 EU Countries.

The project is funded by the Portuguese National Agency, under the framework of the Erasmus + Programme and will end on 30.10.2022. Our partners are from Portugal, Spain, Greece, United Kingdom and Belgium. You can find more information about each partner organisation here: www.amfan3d.com (project coordinator), <http://www.isqe.com>, www.aitiip.com www.brunel.ac.uk, www.lms.mech.upatras.gr and www.ewf.be.



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