



3D Printing in Adult Learning

Project Partners



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3dhelp.euda.eu

European Development Agency (EuDA)
(Project Coordinator)
Prague, Czech Republic



european development agency

Ludor Engineering

Iasi, Romania



Macdac Engineering Consultancy Bureau Ltd (MECB)

Iklin, Malta



Social Innovation Fund (SIF)

Kaunas, Lithuania



Strojarska Tehnička Škola Fausta Vrančića (STSFV)

Zagreb, Croatia



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Welcome

Welcome to the second edition of the 3D-HELP project newsletter. This issue will provide an update on the project intellectual outputs, following the third meeting which took place in Croatia. This newsletter will also give insight on the project partners. This edition will introduce the first two partners: Ludor Engineering from Romania and STSFV from Croatia. Make sure to check page 2 of this newsletter to learn more about peculiar applications of 3D printing and how it is used in the real world.

The range of possibilities which 3D printing provides is almost limitless. However, one area where 3D printing has yet to make a difference despite the potential of fulfilling many needs is within the educational systems. The 3D-HELP project sets to help Adult Education providers to incorporate 3D printing as part of the curriculum.

Project Objectives

The main aim of the project is creating innovative curricula, course content and e-learning platform, that focus on the revolutionary technology of 3D printing. These resources will equip adults with specific skills related to ICT, engineering and technology and they are free and open for everyone.



Meet the 3DP Partners

The 3DP project involves 5 partners from the Czech Republic, Romania, Malta, Lithuania, and Croatia. This issue presents two partners: Ludor and FVTH.

Ludor Engineering srl

Iasi, Romania



Ludor Engineering is a Romania based engineering company dedicated to providing comprehensive services in mechanical engineering and design, product development and prototyping. It also has expertise in implementation of advanced technologies in education, including 3D printing, Industry 4.0, drones, etc. Ludor Engineering has direct experience of participating in EU projects including Erasmus+, as both coordinator and partner. Apart our own technical and project management know-how, we can rely on a large cooperation network, both national and international levels, including universities, schools, private companies and non-governmental organisations.



Faust Vrančić Technical High School

Zagreb, Croatia

Faust Vrančić Technical High School is a vocational high school with 4- and 3-year curricula for mechatronics, computer engineering, motor vehicle and mechanical engineering technicians, and CNC operators. In the academic year of 2018, 645 students have enrolled in 28 different classes tutored by 66 teachers. Adults education is specialised in CNC and CAD/CAM programming.

Our school is one of 25 schools in the Republic of Croatia that was named the Regional centre of competence. The regional centres connect schools, colleges and employers all with the support of the ministries. Apart from 3D-Help, FVTH is involved in the following Erasmus+ projects:

KA1: Learning mobility for individuals "Looking towards the future" and KA3: Joint Qualifications in Vocational Education and Training.

Did you know?

Did you know that the world's largest printer is intended to build 12x27x9m buildings? Did you know that the 3D printing industry was estimated to be worth \$7.3 billion in 2018?

3D-printing has allowed dentists to offer customised dental interventions. People are waiting less time to carry out a dental procedure.



3rd Project Meeting

The third 3D-HELP Transnational Project Meeting was held in Zagreb, Croatia between the 8th and 9th of November 2018. The meeting was hosted by the project partner Strojarska Tehnička Škola Fausta Vrančića (STSFV), and during the meeting the partners presented the modules that have been carried out in the previous months and the tasks to be completed in the next phase of the project. until next transnational meeting, which will take place in Zagreb, Croatia.

During this meeting, the team discussed improvements that are required to the course content in order to provide enough information to get the adult trainers and learners up to speed with the 3D printing technology, without overwhelming them with complicated, never ending theory. This was possible because first a curricula dedicated to Adult Education was devised where the specific course modules were selected as the gist of the 3D-Help course. The topics, which vary from beginner to advance level of difficulty, are (1) Introduction to 3D printing, (2) Available 3D printing technologies (3) Design with 3D printing in mind (4) Slicer software for subsequent 3D printing (5) Future of 3D printing technologies (6) Case studies in the industry (7) 3D printing to boost creativity and innovation, and (8) 3DP and entrepreneurship.



After each module, users of the LMS will be asked a set of ten questions in order to assess their comprehension of the subject. During the meeting the structure of the e-learning platform and how each individual module will be listed were discussed. The next steps are to start the translation process in the national languages of the partners, meaning that the course will be available in English, Romanian, Czech, Lithuanian and Croatian. The fourth transnational meeting will be held in Kaunas, Lithuania on the 25th and 26th of April, 2019.