ACCESS-3DP
Art & Creative Craft Enterprises for Successful Streaming of 3D Printing

Co-funded by the Erasmus+ Programme of the European Union

November, 2022

Newsletter #4

Project updates and follow-up!

Follow the ACCESS 3DP project on:

http://access3dp.eu/project/

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ACCESS-3DP

Art & Creative Craft Enterprises for Successful Streaming of 3D Printing

https://essentracontent.com

Project ID:

Full name: *Art & Creative Craft Enterprises for Successful Streaming of 3D Printing*
Programme:
ERASMUS+ KA202 – Strategic Partnerships for vocational education and training
Project duration:
1 October 2020 – 31 March 2023
Total Grant:
346.963,00 EUR
Partnership:

- *Chambre de Métiers et de l'Artisanat Auvergne-Rhône-Alpes Lyon-RhôneCentro Tecnológico del Mueble y la Madera de la Región de Murcia*
- *Centro Tecnológico do Calçado de Portugal*
- *Štajerski tehnološki park*
- *Technická univerzita v Košiciach*

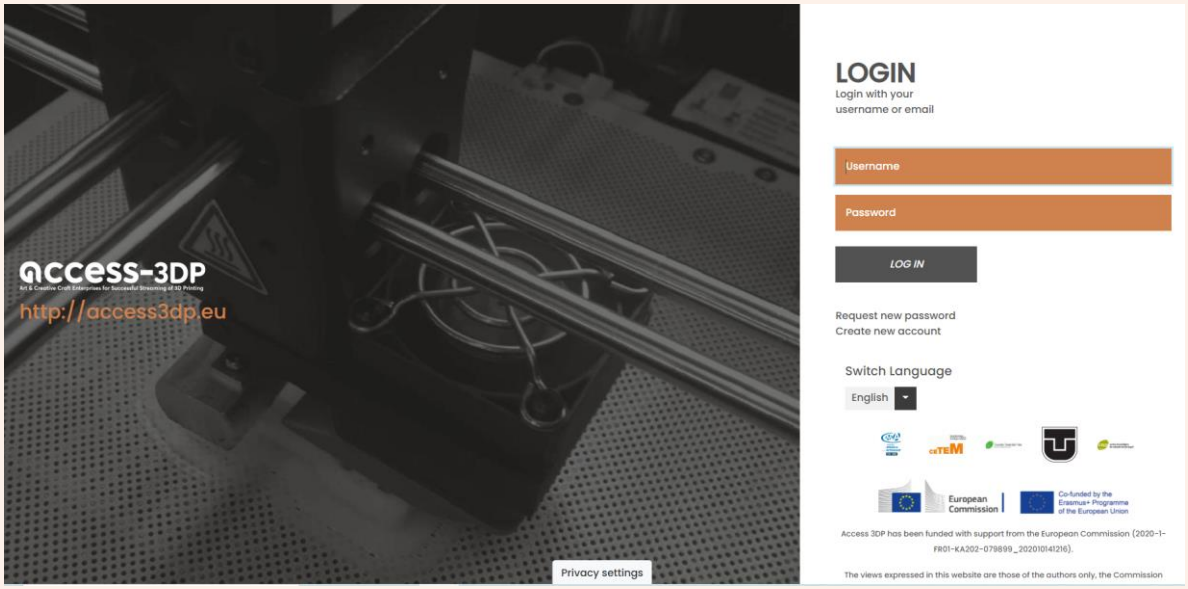
New technologies, new opportunities

Additive Manufacturing (or 3D Printing) is one of the technologies the European Commission identified as a Key Enabling Technologies (KETs). Creative Industries in the craft sector are usually small businesses but important core elements of the EU economy. They work with clients in sectors that have been traditionally connected to creative industries for some time, using flexibility to add value to products by applying their ability to realise innovative ideas. Increasingly these capacities are becoming more relevant to the European Economy as new sectors find out that they need the skills provided by creative enterprise workers. At the same time, new, often disruptive technologies come to light and require highly skilled creative people to reach their full potential.
This also applies to other Advanced Manufacturing technologies, such as Advanced Industrial Robotics.
ACCESS-3DP brings together an innovative consortium of 5 expert partners and will:

- identify the mismatched skills between creative craft entrepreneurs already using AM and traditional ones potentially interesting in adopting such technology;
- develop VET curricula on 3D Printing tailored to the needs of the craft sector, to the diffusion of the technology, as well as the mobility and employability of creative craftworkers;
- improve competitiveness and efficiency of craft businesses through 3D Printing
- better understand the 3D printing value chain;
- evaluate the impact of tailored training;
- develop recommendations for certification of creative craft stakeholders trained in 3D Printing.

Achievements so far:

We are now ready to test the ACCESS 3DP e-learning course on 3D PRINTING.



INTERESTED?

>>TRY E-PLATFORM HERE<<

We invite you to test the demo version of the ACCESS-3DP training course! For more information, please contact the e-learning responsible: Ms. Almudena Muñoz-Puche (a.munoz@cetem.es)

To get there, in the past months the partners:

Finalization of the training material in english

Consortium finished at the end of the summer, the ACCESS-3DP course which encompass the following solutions:

- Coursebook
- Presentations
- Introductory videos per module and one per course
- Interactive solutions
- Assessments

Translated the major contents in the 5 languages of the partnership

During the past months, the ACCESS-3DP project partners have worked hard to complete the training contents in English, and then translate the major topics into 5 languages (French, Portuguese, Slovenian, Slovakian, Spanish). The translations will help the dissemination of the project results to a wider public, supporting most notably craftsmen and craft companies who wish to get started with 3D printing.

Finalized the development of e-learning platform, available in 6 languages

An e-platform is being finalized to help anyone interested in 3D printing from the beginnings to professional use, but mainly It is aimed at different target groups: professionals, workers, entrepreneurs, students, vocational training providers and training providers, universities, the unemployed, local education authorities, policy makers and other relevant stakeholders from traditional sectors. The platform is available in 6 languages (English, French, Portuguese, Slovenian, Slovakian, Spanish).

Developed introductory videos for all 6 modules

The partners developed 6 videos to present the contents of each training module of the ACCESS-3DP course. The videos are in English, but subtitles are available in all the partner languages:

- Module 1 - Innovation process applied in traditional sectors,
- Module 2 - Design Thinking & Skills,
- Module 3 - 3D Printing & Production Process,
- Module 4 - Current processes- Different fields of application,
- Module 5 - Entrepreneurship and 3D Printing – New Business Ideas and
- Module 6 - Advanced Industrial Robotics applied in crafts

Prepare a guide for trainers

The Guide, available for download on the project website, presents the ACCESS-3DP course in detail, providing detailed information about the contents of the training modules, the training paths, the learning outcomes per module, etc. It is ailmed to traners who wish to use the ACCESS-3DP e-learning course as a support for their educational activities on 3D printing.

Study visit: innovating crafts through 3D printing technology

Between October 25th and 27th CETEM (Technological Centre of Furniture and Wood of the Region of Murcia) held an educational seminar for the project and associated partners from different EU countries, which took place in Yecla, Spain.

Its purpose was to share and improve the knowledge in terms of 3D printing and Advanced Industrial Robotics (AIRs) of the project teams partner of the ACCESS-3DP consortium as well as the one of the associated partners who were invited to join the study visit in each partner country.

Main activities and conclusions

The educational seminar began with the presentation of the ACCESS-3DP project and who it is meant for. The current 3D printing technologies and materials that are currently most used in the furniture sector were presented.
The second days the international participants visited different companies that have implemented or are in the process of implementing 4.0 technology.
Finally, a practical tour of how CETEM technologies work has been organized:

- Visit of the departments for intellectual property rights and the 3D printing laboratory,
- Visit of the department of electronics and its high-tech projects and

- 3D printing exercises: “From the design to the piece”,
- Advanced industrial robotics and its use.

The study visit allowed to test and pilot the results of the first three intellectual outputs (IOs) of the project, notably the report, the curriculum, the learning modules, and the MOOC platform. Through the discussions held during the time in Spain, the partners gather insights and feedbacks from the participants, which will be used to improve, accordingly, the quality of the project results (in accordance with IO4).

The delegations participating to this experience included a variety of professionals, such as specialists on 3D printing, robotics, and other high-tech technologies, but VET teachers, university professors, technical staff from technology centers and business experts. The involvement of such a wide range of professionals allowed the project partners to give a solid and concrete validation of the results achieved to date in the ACCESS-3DP project.

In addition to the participants from the ACCESS-3DP consortium, CETEM invited a delegation from partners of the CoVE Action ALLVIEW (Alliances of Centers of Vocational Excellence in the Furniture and Wood sector) to join the study visit. ALLVIEW is a new transnational cooperation platform that connect partners within the wood and furniture sector. The meeting of partners from both consortia allowed the participants not only to discover reciprocally two different Erasmus + initiatives, but also to create synergies and explore potential future collaboration opportunities, maximizing the impact of the study visit.

Learn more >>ALL VIEW PROJECT<<

Iceri congress

The ICERI 2022 (International Conference of Education, Research and Innovation) Congress took place between 7th and 9th of November and each year attracts more than 800 delegates from 80 different countries to share their profoundly valuable knowledge in the fields of education and technology. The ACCESS-3DP project was also presented at the congress, highlighting the importance of 3D printing and education for craftsmen.

Upcoming activities:

Information event

A live event on 3D printing will take place in Maribor in February, where STP will present the new developments in the ACCESS-3DP project, the e-platform and invite a speaker from the 3D printing field. The event will be open to the public, so follow us on the **ACCESS-3DP** website or on **Facebook** to register for the event.

Testing the e-learning platform

Once the e-platform has been finalised by the project partners, we will test it among stakeholders and anyone else who would like to learn more about 3D printing.

Final transnational partner meeting in Lyon, France

In March, the final meeting of the ACCESS-3DP project will take place in Lyon (France), where the documentation will be analysed, assessing the scope and the deliverables, analyzing the project's success, and creating a final project report.

Meeting in-person:

STP, the project partner from Slovenia, organized the third ACCESS-3DP transnational project meeting in person on the 6th and 7th July 2022 in **Styrian Technology Park** in the city of Maribor.

The meeting was attended by all five partners from France, Portugal, Slovakia, Slovenia, and Spain. The main topic of the first-day discussion (6 July 2022) was the evaluation of created training material developed by all partners (in total 26 coursebook documents, 30 presentations, and 7 videos with interactive solutions) and the integration of learning modules via the ACCESS-3DP Massive Open-Online Course.

Source: ACCESS-3DP internal resource

The second day of the meeting (7 July 2022) was dedicated to IO4: Pilot validation and mainstreaming of the innovative tools to the target groups. The Learning/Training/Teaching activity will take place in the month of October, being attended by the Consortium organizations and the project's stakeholders. The aim of this workshop will be to evaluate the results within the first three intellectual outputs (the IO1 report, the Joint curriculum, the learning modules, and the MOOC platform). On the second day, also the communication and quality assurance activities were presented. The meeting was concluded with the planning of activities for the following months.

Source: ACCESS-3DP internal resource

Presenting the partner:

Technical University of Kosice (TUKE) is the leading Slovak public technical university with more than 60- years history, which caters to a wide range of educational and research needs, not only in the East-Slovak region, but throughout Slovakia and Central Europe region.

TUKE has very **strong linkages to national and regional policy institutions and business sector** and actively cooperates on the formation of national and regional smart specialization strategies and policies. TUKE is a **member of several nation-wide and international clusters and associations**, including IASP - International Association of Science Parks and Areas of Innovation, EUA – The European University Association, Prime Networking and most of the national innovative networks.

TUKE is also a driving force in the formation of **quadruple-helix Innovation Network**, which was founded in March 2018 in cooperation with the main regional authorities, aiming to deliver on-the-edge innovations to cope with several challenges of City of Kosice and surrounding rural areas. We are also **cooperating with the Creative Industry Kosice** that was launched in 2015, to promote various aspects of creative industries in our region and support innovation development.

More information: >>TUKE – Technical University of Kosice<<

Figure 1: Technical University of Kosice. Source: TUKE

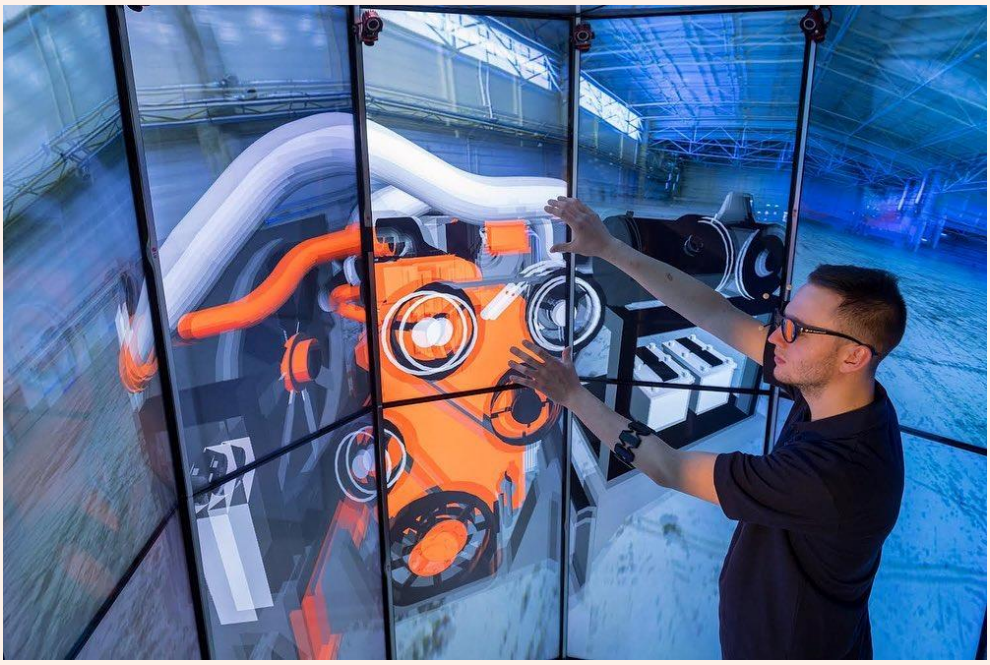


Figure 2: Faculty of Electrical Engineering and Computer Science. Source: TUKE