

I05 – Webinars regarding the immersion of 3D
Printing in VET education

- 05A3-

Webinar about training and job opportunities in EU.



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

E3D+VET

ERASMUS+
3D PRINTING
VET CENTRES

ERASMUS3D+

For the immersion in 3D printing of VET centres.

Project Agreement Number
2017-1-DE02-KA202-004159



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PARTICIPANT ORGANIZATIONS



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IO5_A3- Webinar about training and job opportunities in EU.

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|--|--|---------------|
| Name of the Webinar | Training and job opportunities in EU | |
| Objective | Disseminating the available training in Europe, the most suitable training for VET students and the market expectation in 3D printing. | |
| Target Group | VET teachers, students, people interested in the 3D printing industry. | |
| Date | 12.03.2020 | |
| Duration | 1 hour | |
| Speakers | STP (Moderator): Stefano Guardati FLAM3D: Pieter Machtelinckx STRATASYS: Patrick Cadet PRISTÁLICA: Ramón Perez Silva | |
| Participants | 64 | |
| Topics to be presented and discussed during the webinar: | TOPICS | TIME |
| | STP: Introduction | 15:00 – 15:05 |
| | FLAM3D: 3D Printing skills expectations from the market | 15:05 – 15:20 |
| | STRATASYS: Training and job opportunities in EU | 15:20 – 15:35 |
| | PRISTALICA: App E3D+VET presentation | 15:35 – 15:40 |
| | Q&A | 15:40 – 15:50 |
| | Conclusion | 15:50 – 15:55 |

Meeting Room (Adobe Connect): https://webconf.vc.dfn.de/e3dplusvet_3/

E3D+VET
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SAVE THE DATE
12th MARCH 2020

h: 15:00 - WEBINAR 3 -
Training and job opportunities in EU

JOINT US VIA THE FOLLOWING LINK
AND ENJOY THE WEBINAR!

https://webconf.vc.dfn.de/e3dplusvet_3/

stratasys FLAMED

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"Designed by Freepik"

KIT Karlsruhe Institute of Technology

ceTEM

SEMINAR BERUFLICHE SCHULEN KARLSRUHE

CEIPES

STAJERSKI TEHNOLOSKI PARK

pristalica

Summary of the topics discussed.

The third E3D+VET webinar began with a short introduction delivered by **Stefano Guardati from STP**. The project's objectives and activities were shortly presented to the attendants, as well as some information on the webinar schedule. All questions from the attendants were addressed during the last 10-15 minutes.

Following the introduction, the consortium invited two external guests to take part to the webinar discussion: Mr. **Pieter Machtelinckx**, representing **FLAM3D**, a network representing stakeholders from the 3D printing and AM fields based in Belgium and Netherlands, and Mr. **Patrick Cadet**, representing **STRATASYS**, a global leader in 3D printing and additive manufacturing solutions.

In his presentation, Mr. Machtelinckx focused on skills and expectations of the job market for what concerns mainly those, who are interest in working in the 3D printing and AM field. His presentation was supported also by clear statistics and practical data, which attendants found very interesting and shed a light on how the market needs more profiles with 3D printing skills.

On the other hand, Mr. Cadet discussed the training and job opportunities in the European Union by providing some statistics and data, highlighting the specific fields and specific positions which are currently not fully covered (and often lacking) and therefore need more educated and experienced staff.

Finally, **Ramon from PRISTALICA** introduced the E3D+VET to the attendants, showing a short video preview and inviting them to download it on Google Play store.

Questions and answers (Session 1).

Question 1: Do you think 3DP needs to be included specifically in formal education?

I think 3D printing definitely needs to be taken up to formal education. Maybe not as a separate course. It is not just about lessons on technology, manufacturing and design, but you can also use the 3D printing tools to experiment in other tools or use the machines to create relevant adaptive materials. Some examples were given in the presentation by Ramon. So, I think it is definitely a useful tool for many different tools.

Question 2: Do you think that we could use 3D printing also with youngsters (primary, lower secondary, upper secondary general education / school system). Are you aware of "plug & play" educational activities which could be used to implement meaningful learning pathways with 3D printing, in a playful way with different age groups?

There are many different vendors in the field and of course there are some vendors, who specialized on kids and schools on the market. For the purpose I know that Ultimaker made some great 3D printers and also, we have a small 3D printer by Makerbot and this is what I presented earlier; we put together a box where you have a printer, a learning CD and all information, which schools need to teach 3D printing technology. There are other vendors who do smaller printers and can help with the plug & play printer machines.

For Patrick, have you ever thought about getting closer to the field of formal teaching and if so, how do you plan to do it? or have you already had practical experiences?

Patrick: within this project and initiative we started attempted to involve education in few markets, but honestly in this area 3D printers become a little bit pricy for a lot of schools or universities. I do not know if Pieter has any comments about it.

Pieter: Patrick said before, there are a lot of plug & play options and packages available, different educational activities. As for formal teaching, we made a website in Dutch because it was built for Netherlands and Belgium markets, but it gives an overview of the possibilities with FDM 3D printing, because it is the most accessible form. It also teaches teachers what they can do with it and how they can use a 3D printer in different kind ways to create relevant didactic materials.

Screenshots.

Camera and Voice

Training and job opportunities in EU.pptx

Additive Manufacturing

Training and job opportunities in EU

Enabling the 4th Industrial Revolution

Patrick Cadet | Stratasys GmbH

stratasys

Attendee List (14)

- Stefano - STP
- Hosts (6)
 - Maria Victoria Gomez Gomez
 - Patrick Cadet
 - Patrick Cadet Mobile Phone
 - Pieter Maheleux
 - Ramón Pérez Siles - Pstislka
 - Stefano - STP
- Presenters (1)
 - Florian Rothemann
- Participants (5)
 - Alberto Martinez Ortega
 - Alexia
 - Andreas Lorenzschal
 - Axel Braun
 - Carlos - AMUEBLA

CHAT (Everyone)

Maria Victoria Gomez Gomez: Yes

Alexia: yes

Florian Mykka: yes

Alexia: thanks a lot!

Eckhard: thanks alot

Alexia: it was a great presentation :)

Gregorio CETEM: Do you think 3DP need to be included specifically in formal education?

Maria Victoria Gomez Gomez: Welcome

Camera and Voice

Skills Job opportunities Pieter.pptx

FLAMED

- Independent, non-profit, network
- Unite, represent, support
- Companies, research, education, govt...
- Over 120 members, NL + BE
- Entire ecosystem

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 - Axel Braun
 - Carlos - AMUEBLA

CHAT (Everyone)

Gregorio CETEM: low but i can hear more or less

Gregorio CETEM: with hig volume

Stefano - STP: We hear him but low like you are

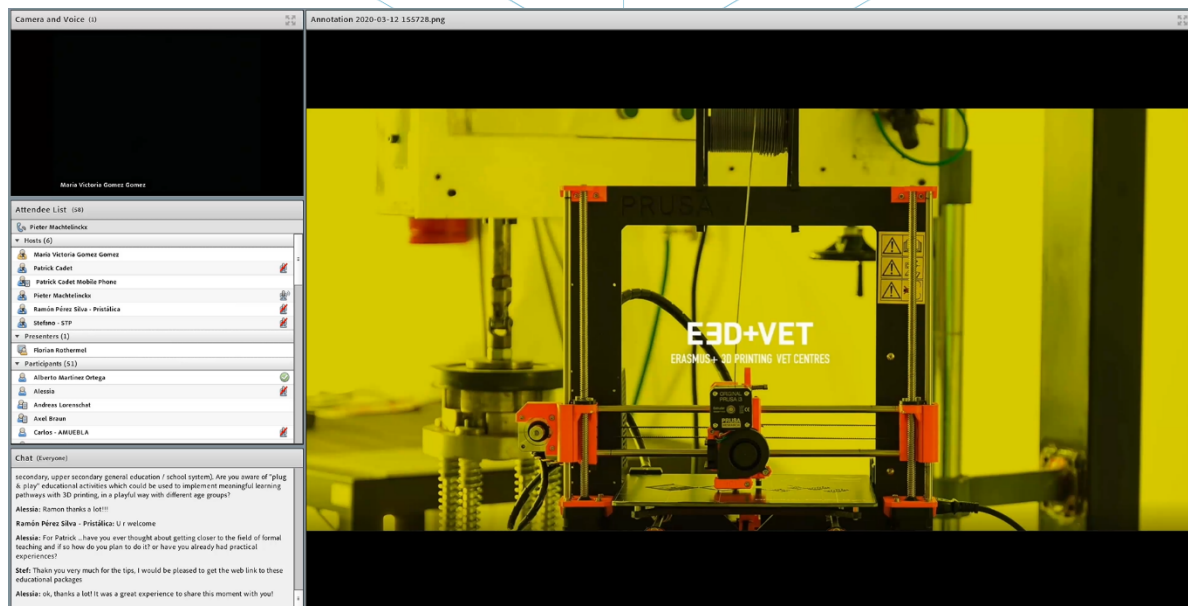
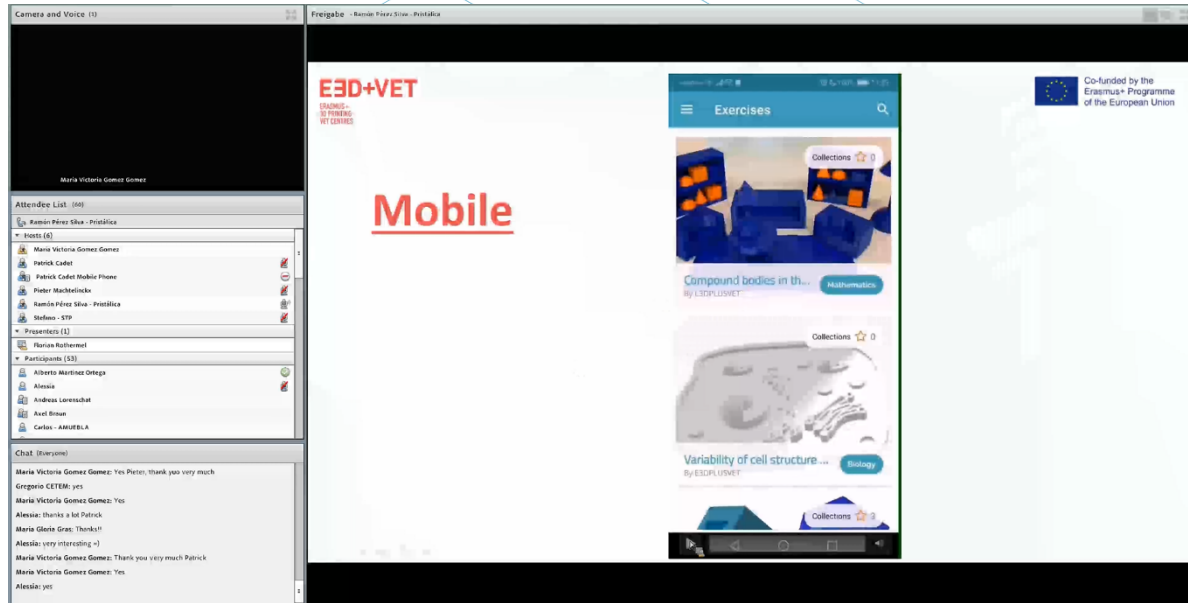
Maria Victoria Gomez Gomez: Ok let's do it

Florian Mykka: His sound comes and goes. May be he could get closer to his microphone

Maria Victoria Gomez Gomez: Yes

Alexia: yes

Florian Mykka: yes



Video link.

The webinar recording is open and available on the YouTube platform via this link:

<https://youtu.be/NTqSZ3rVXxM>