

DT2.2.3 - Pilot 1 Mentoring

Pilot Action 1 Mentoring Programme

Version 1
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PP6 - PL





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1. Mentoring programme timetable

The mentoring program has been performed according to the following timetable.

1. Mobile Pilot Action:

The series of workshops regarding 3D modelling for children and youth from the community of the small municipality took place from mid-July till the end of August 2017 (once or twice a week for 6 hours) - mentor Grzegorz Michałowski

2. 3D schools

Short presentations about 3D modelling and rapid prototyping in schools for children and youth between 13-18 took place from mid-October till mid-December (depends on the school - but usually 1 presentation for 45 minutes per one class, 3 classes a day) - mentor Grzegorz Michałowski

3. Open call

Individual trainings, organised for the group of scouts - the dates of the trainings were set according to the needs of the group. Till now there were three meetings, once a month starting from September - mentor Grzegorz Michałowski

2. Mentoring programme - summary

The idea of the mentoring programme organised by FabLab Bielsko-Biała was to spread the knowledge about the 3D modelling and rapid prototyping within the local community, find talents - creative people with innovative ideas and promote use of rapid prototyping in everyday life and in the early stage of business. That is why we decided to divide the programme into few parts, and attract different types of groups.

Mostly, we focused our activities on young people, because we see the biggest innovative potential in this group. Moreover, we find a niche regarding this topic in our city and region - there were no practical educational activities in terms of cutting edge technologies, especially 3D modelling, for schools. Young people don't have an access to state-of-the-art equipment, and if they have - the price of it is not adjusted. They didn't know the opportunities that FabLab can give to them, so we wanted to introduce it to them.

Trainings and workshops offered within the Pilot Action Community were mostly on the basic level - we wanted to pass the knowledge about cutting edge technologies in our city, show how it can be used and what opportunities it gives.



Mentoring programme was divided on three parts:

1. Mobile Pilot Action - on the basis of the Memorandum of Understanding signed with the mayor of the small municipality - Porąbka - near Bielsko-Biała - we organise a series of workshops for the children and youth. In the local community centre participants of the workshops were able to learn how to use the 3D modelling free software, create their first prototypes and print them on one of the two 3D printers that were moved temporary to Porąbka.
2. 3D Schools - Pilot Action Community in primary and secondary schools in Bielsko-Biała - (based on an open call) - short presentations about 3D modelling and rapid prototyping in schools for children and youth between 13-18 years old. Presentations show the basis of the 3D printing - what are the possibilities and how can we use this technology? What are the materials that we are printing from? What are the main rules of 3D modelling? How does the 3D printer work? And the most important - how can I use FabLab Bielsko-Biała to bring my own ideas into life?
3. Open Call- workshops/presentations/trainings in the FabLab Bielsko-Biała - based on an on-line announcement we have also an idea to gain Pilot Action participants who wants to have individual trainings - by individual we mean adapted to the needs of certain stakeholders/group of stakeholders. Those are more advanced trainings for people who already has a knowledge about 3D printing and who wants to improve them. Those are also for people with an idea - of a product, of a thing - that can be produced in our FabLab.

3. Summary of the outputs

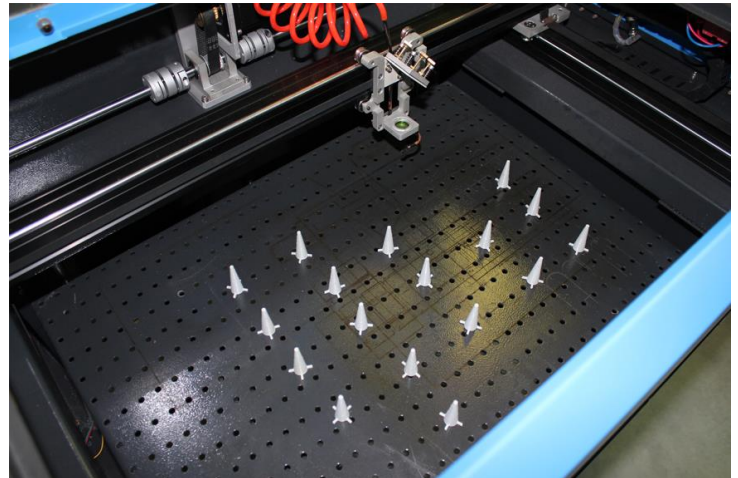
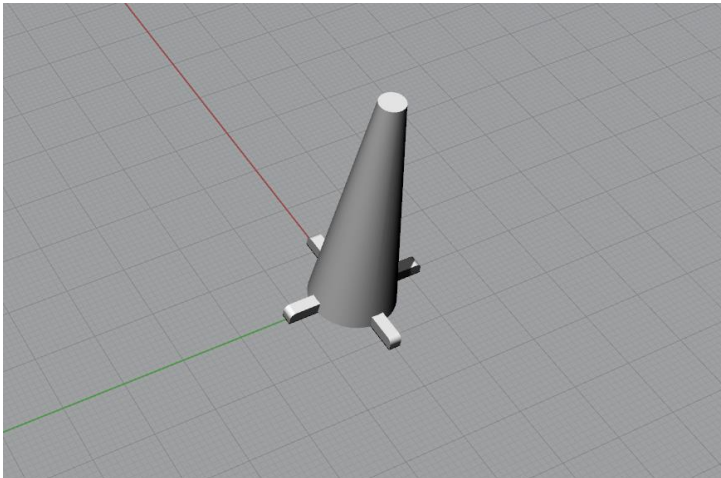
The main outputs of the Mentoring Programme were:

- the prototype of the educational program itself - as mentioned above, based on the desk research we found out that there is a niche regarding the access to the state-of-the-art equipment, especially for the youth and children and there is a lack of practical educational activities for them in schools. We considered the 3D modelling as a skill that will be necessary to know by the future engineers, designers, ICT sector workers and other more or less industrial jobs. That is why we create a programme that can become a spark, a first step that will awake their creativity. Moreover, the program will help young people to become a significant and aware member of the local innovation ecosystem
- conical air filter for lens cooling system and distance pins for the laser cutter - on the workshops that took place in FabLab Bielsko-Biała and were provided for scouts we manage to create two prototypes that will improve our equipment. Led by the mentor, the

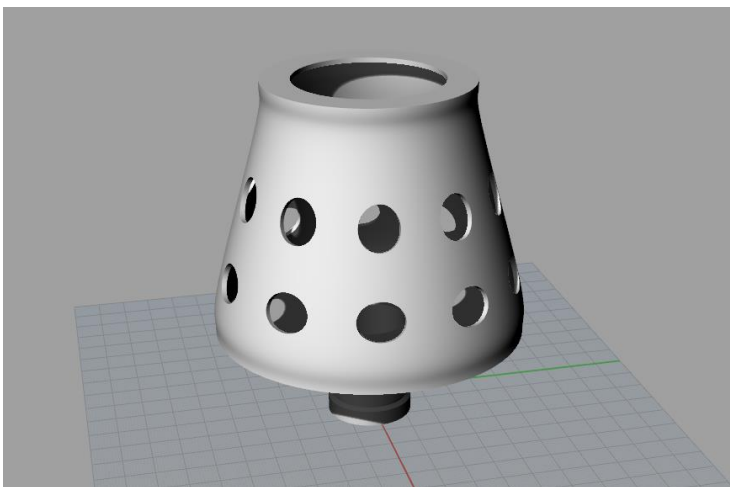


participants of the workshops invent two parts for our laser cutter that will make it easier to use, more efficient and safer.

Distance pins for the laser cutter



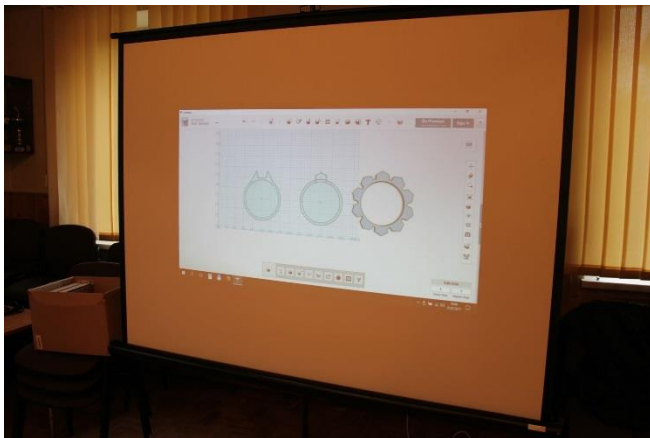
Conical air filter for lens cooling system





4. Mentoring programme photos

1. Mobile Pilot Action - local community in the municipality of Porąbka





2. 3D Schools Pilot Action





3. Open call Pilot Action (on-line)





5. Mentoring programme - attachments

The presentations held during the mentoring program and other relevant material are attached to this document.

4. Presentation used during the workshops by the mentor
5. Lists of attendance
6. Example of the diploma for participants of the Mobile Pilot Action
7. Example of the certificate of cooperation between the school and FabLab - for 3D Schools Pilot Action
8. Draft of diploma for the participants of the Open Call Pilot Action (the course hasn't ended yet)