

# PILOT ACTION EVALUATION

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DT252 - PP6- Partner Report on Pilot 3

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## 1. Short overview of the Pilot Action

*(about one page of the overview, target participants (age, education, number...), Pilot schedule/structure and duration, ... + a couple of pages with high quality pictures)*

Within the Pilot Action Education we've provided trainings and workshops for students from the local technical university - on the base of MoU that was signed last year.

The aim of the pilot action was to improve the competences that students already have, so workshops were on more advanced level.

To provide high-quality classes, we hired an expert - on the base of proper public procurement procedure.

According to the specifics of our FabLab - that is spatial modeling, 3D printing and rapid prototyping - we decided to provide courses that improves skills in reverse engineering and 3D modeling. We have hired an professional expert - Ireneusz Wróbel - who is also an academic teacher and has a Ph.D degree in above mentioned topics.

He's prepared a program and assumptions of the course, which was as follows:

- duration: 30 hours
- number of participants: 10-20 adults, especially students
- thematic training program that assumes:
  - Introduction to Autodesk Inventor program and creating 2D sketches
  - Methods of creating 3D models and operations on solids
  - Modeling of the layings
  - Generating of flat documentation
  - Modelling of own prototypes and reverse engineering
  - Preparation of CAD model for 3D printing
  - Printing of own models in FabLab Bielsko-Biała

The construction of the program was: around 8 hours of theory and the rest 22 hours of practice. In total trainer decided to make a course once a week, for 7 weeks, six times it lasted 4 hours, and one meeting was extended to six hours. The last meeting was in the FabLab Bielsko-Biała, where students prepared their models to be 3D printed.

After completing the course, an evaluation survey was carried out - both in Polish and in English. It wasn't obligatory, but most of the students filled it out. Both in terms of quality of the course and the competences of the trainer the assessments were positive.

The certificates of the course will be distributed after the summer break.









## 2. Lessons learnt

### Stop doing:

- To start earlier the public procurement procedure
- To start whole course, that we will be able to finish it (with the distribution of certificates) in one semester

### Keep doing:

- students liked the program a lot, we had a very good feedback from the participants of the course, so we would like to repeat the course in the next or following semester
- in general: providing courses/trainings/workshops for different groups on different levels of difficulty - thanks to this we promote our FabLab and bring the technology to community. With the courses like Pilot Action Education we help students in implementing innovative ideas, which they won't be able to realize on their university

### Start doing:

- in the evaluation surveys students also indicated other topics that they would be interested in - we would like to adjust our FabLab offer to it
- widen the offer of more advanced trainings

## 3. Outcomes

The main outcome of this pilot action was to introduce cutting edge technologies to the community but on more advanced level. Regarding Pilot Action Community that we've conducted last year - there were activities prepared for the youngest, who doesn't know anything or a little about 3D modelling. Now, we wanted to give the students the opportunity to extend their knowledge and improve the skills that they already have. They have been already participating in academic classes at the technical university and had a glimpse of possibilities of 3D printing and rapid prototyping. We gave them tools to implement their innovative ideas.

As a direct outcome we can also indicate prototypes, models and products created by the students during the course.

We can also indicate general outcomes, benefits for the region and local community, that are:

- bringing knowledge to the community
- creating ecosystem of innovation - bringing stakeholders together, creating cooperation schemes, boosting creativity



## 4. Sustainability

The activities provided within the implementation of the Pilot Action Education can be easily repeated in the future in our region or can be also transferred to the other territory.