Interreg CENTRAL EUROPE
European Union
European Regional Development Fund

FabLabNet

ESOM Evaluation Report

DT323 / DT324
European School of Makers (ESOM)

Version 1
05 2019

1. Overview

The High Level Training run from September 2018 until February 2019 as the first "European School of Makers" (ESOM). The courses where held in the participating Fab Labs and where specifically designed to share the capacities developed within the FabLabNet project to a wider public of professional, following the project philosophy of making Central Europe more competitive by unlocking the innovation capacity of Fab Labs.

In total 38 courses were offered and a total of 526 people participated in at least one of the courses. Please find list of all courses below.

Course name	n	Target groups	Organizer
CODING @ SCHOOL	37	School teachers	MUSE Fablab
FabLab in Education	15	FabLab staff	
Fab Lab Bootcamp	10	Designers and makers	HappyLab Wien
DIY Chocolate Molds	9	Designers and makers	
Introduction to 3D printing	9	Designers and makers	
Packaging Design: create the perfect packaging for your product	8	Designers and makers	
Basics of woodworking	5	Designers and makers	FabLab Budapest
Digital technologies and textile design	5	Designers and makers	
Introduction of KUKA PRC	4	Designers and makers	
3D metal printing - Additive technologies in mechanical engineering - basics	8	Designers and makers	Vysoké učení technické
3D metal printing - Additive technologies in mechanical engineering - advanced	9	Designers and makers	
Introduction to the 3D world	11	Children and young	FabLab Bielsko-Biała
About Drones: how to build your own 250 class drone?	12	Everyone	
3D scanning	8	Designers and makers	RogLab
Dancing-drawing robot (applied workshop)	14	Kids 9-12	
3D modelling - beginner	18	Designers and makers	
3D modelling - intemediate	19	Designers and makers	
3D modelling - advanced	12	Designers and makers	
Microbit & Micropython	50	Everyone	SCSTI Fablab
TRIZ-tehory of inventive problem solving	6	Designers	

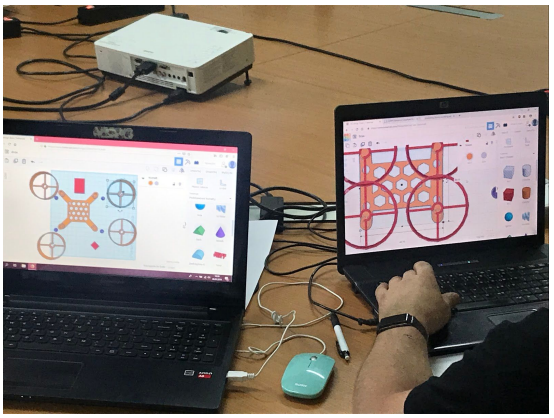
3D Printing and Biofeedcack	13	Designers and makers	
3D Printing	13	Everyone	
2D modelling Inkscape	13	Everyone	
Vynil and laser cutting	13	Everyone	
Design Thinking	34	Start up managers	FabLab.hr
Plastic and Digital Fabrication	45	Designers	
Startup – Do Local Go Global	9	Designers	
STEAM skills - electronics	25	Makers	
Introduction to Freeform modeling	52	Designers	
3D Printing for beginners (FDM)	6	Makers	UnternehmerTUM MakerSpace
Laser cutting for beginners	6	Makers	
Waterjet cutting for beginners	4	Makers	
Electronics for beginners	2	Makers	
Wood workshop for beginners	7	Makers	
Metal lathe for beginners	4	Makers	
Beginners Metal workshop: Cutting, Drilling and Grinding	4	Makers	
Industrial sewing machines for beginners	3	Makers	
3D Printing for beginners (SLA)	4	Makers	

The ESOM was jointly organized and jointly implemented. Benefits were found from both the content and the communication points of view.
We have benefited a common communication strategy, advertisement on social media, a common website for registering and making easier the transnational access to the courses. We have also coordinated the efforts to offer a course portfolio addressing the specific and general needs of or target groups and interested regions.

Fab Lab in Education workshop in Trento

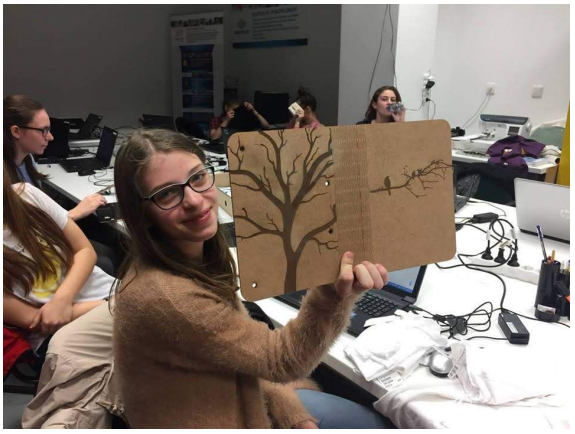
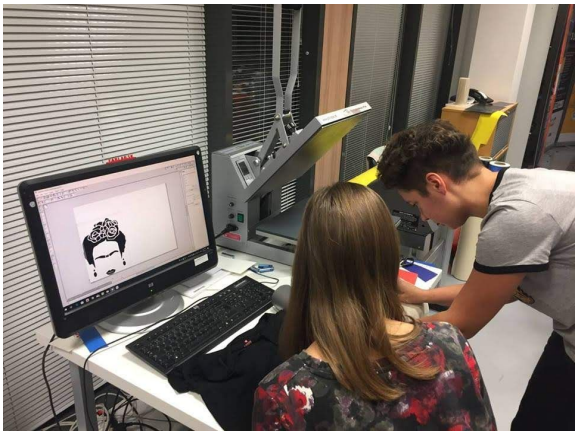
DIY Chocolate Molds in Vienna

3D Metal Printing workshop in Brno

About Drones workshop in Bielsko-Biała

Dancing-drawing robot workshop in Ljubljana

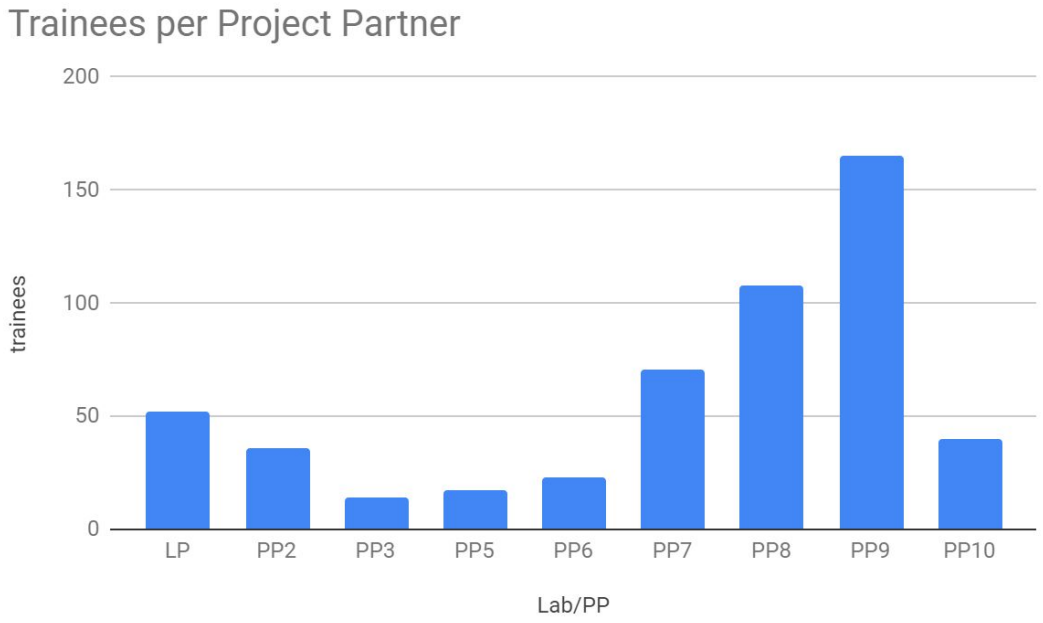



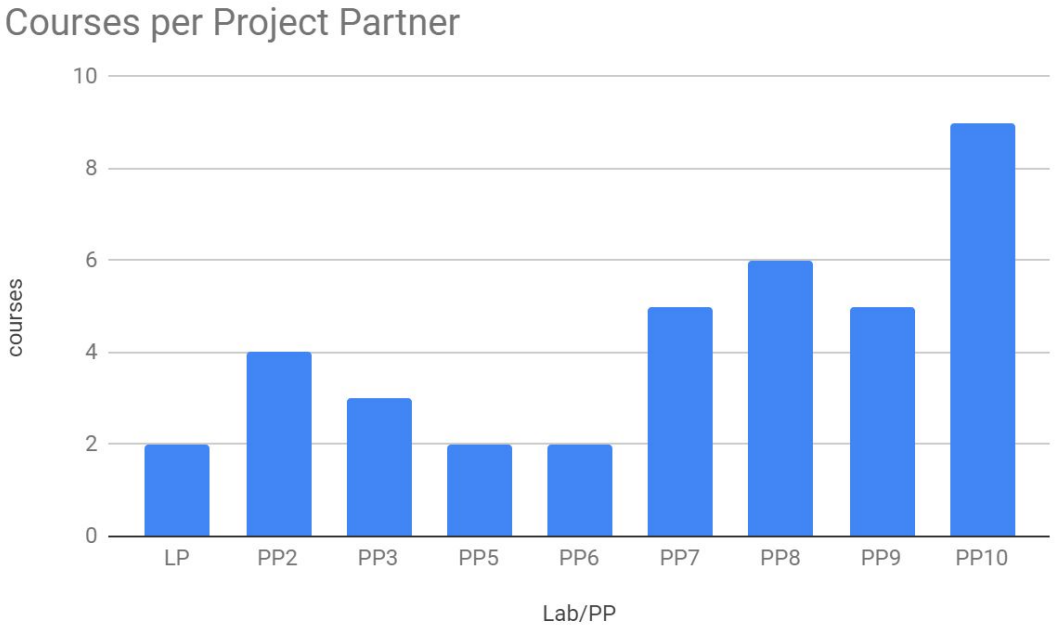
Vinyl and laser cutting workshop in Bratislava

Design Thinking workshop in Zagreb

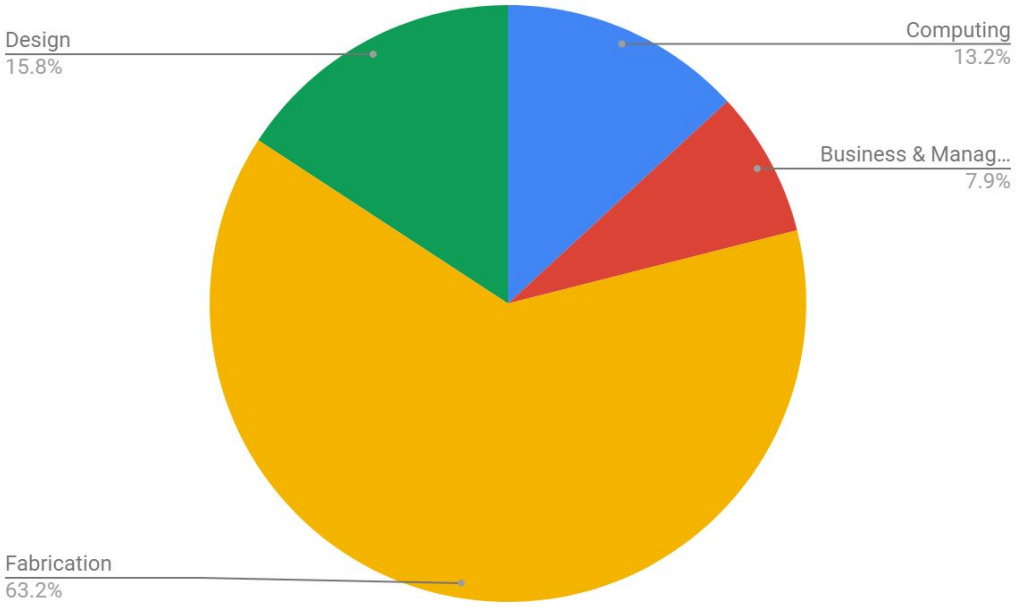
2. Evaluation

All nine project partners have conducted courses within the framework of the ESOM. In total, the course program included 38 different workshops. Each project partner trained between 14 (PP3) and 165 (PP9) persons within ESOM. A total of 526 participants attended the course program of the ESOM.

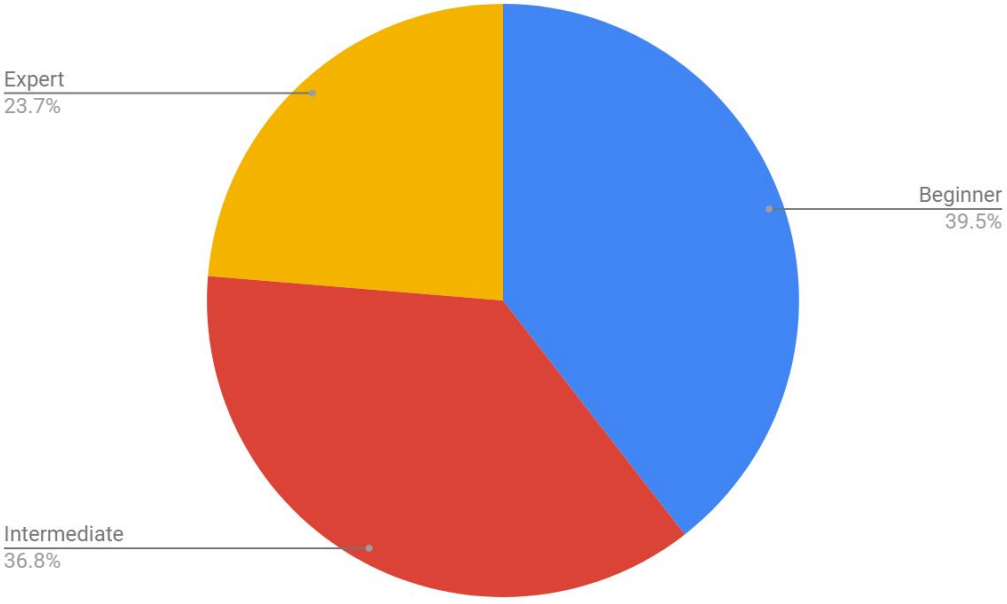




Fab Labs are mainly associated with technical topics. However, we believe that in addition to Fabrication skills, Design, Business & Management and Computing are to be covered in a Maker education programme. The following chart shows the distribution of courses based on these topics.



The aim of the ESOM is to give both beginners and advanced students the opportunity to participate. The participants had the chance to put together their individual course program on the basis of their previous knowledge and needs. The 38 courses offered can be divided into three groups: Beginner (15), Intermediate (14), Expert (9).



3. Conclusions

The need for a comprehensive Maker Education can be seen by the huge amount of interested participants during the first European School of Makers. Only with the strength of the FabLabNet network a comprehensive course program can be developed. Fab Labs are a very diverse network and the individual labs have very specialized knowledge in certain areas. Through the network every Maker gets access to a workshop and training program that a single Fab Lab itself could never offer. Each lab contributes its expertise and at the same time has access to the know-how of specialists from all over the network.