



O1 - fun@science report

Working sheet – Collection of interesting practices Rev. 01 Date 14.12.2017

INTERESTING PRACTICE TITLE: FabLab Perugia

Brief description FabLab is a laboratory which offers personalized digital manufactu	•
because it has at disposal some computerized tools able to re-	alize a wide
range of "custom made" and self-produced objects.	
The idea is that in this laboratory the people can rediscover manu	ıal skills and
know-how to produce objects by handling with the material and broad	eaking down
the barriers related to the huge costs of production. So, in this	place, it is
possible to develop both single pieces and prototypes, improving	also training
and research, for realizing specializations and applications w	hich involve
several disciplines: from figurative arts to electronic engine	ering, from
architecture to medicine.	
Into the laboratory there are numerical control machines (cutters,	3D printers,
laser cutting) managed through open-source software. These or	
possibility to develop new forms of creativity to be shared wi	
network with a considerable potential not only for the single persor	
industry, craftsmanship and construction.	
Education level Infant school	
□ Primary School	
□ Secondary Junior School	
☐ High School	
X Other (University)	
Reason behind FabLab was born from the collaboration between The Academy	of Fine Arts
the "Pietro Vannucci" and "Fabula Animations". It's the first FabLab in	Perugia.
project/practice On one hand the Academy would like to begin a path for rethink a	and redesign
courses so to allow students to be closer to technological revolu-	ution, on the
other hand the Cooperative Society Fabula aims at developing co	ontamination
between arts and digital technology.	
So the idea of the project has been developed from a common pa	assion in the
partnership: innovation technology.	
Moreover, the local context needed the development of a new	place where
experts of different discipline can collaborate and share both ideas	and projects
to create something new, and also the students and profession	nals can be
constant updated and learn by others' experience.	
Those reasons led to the foundation of FabLab in Perugia.	
Aims and FabLab in Perugia aims at building the space to create both ha	ardware and
objectives software objects. Moreover this project intends to promote the	e University
research and to stimulate students and professionals creative	ity, both at
personal and at common level.	





The space is directed to share knowledge and competence about the innovative universe of digital fabrication: this is why this network is bases on Share, Learn and Make criteria. The mission is pursued through workshops which involve several fields and subjects, such as: design, architecture, information technology, engineering and several areas of local craftsmanship (leather, fabric, metals, wood and ceramics).

FabLab offers the possibility of comparison and cooperation to several professionals who together might realize innovative ideas.

Implemented activities and final outcomes

FabLab develops several activity such:

- 3D Print;
- Graphic Design;
- IT Consultancy and Services;
- Laser cutting;
- CNC milling;
- Robotics:
- Creative Workshops.

In this laboratory the members experiment, produce and prototype innovative projects thanks to equipment, workbenches and meeting spaces that facilitate the aggregation, exchange of ideas and exchange of know-how among associates. The project allows to create a hub with specialized figures and individuals that together realize their projects, and also it gives the possibility to everyone to experiment and produce products low price.

Moreover, the team offer courses and workshops dedicated to design, printing, automation for all ages, as well as for specialists. In particular they organize specific training courses to enable them to acquire the basic skills in the Digital Manufacturing production chain.

Finally FabLab organizes some dissemination events where the team presented both the project in general and the objects that that have been made. These events help to raise awareness of the community and to share knowledge about innovative technologies with stakeholders.

Approach and methodologies

FabLab offers a venue to work where the members can express their ideas and creativity for realizing "custom made" objects through the methodology of learning by doing.

The project offers also learning experiences aimed at improving competences by implementing workshops where the approach and the methodologies are defined according to target groups. However the common thread that every times they are focused on is the innovative approach that allows to realize objects thanks to an additive manufacturing process.

The members of FabLab at the same time learn how to use the innovative technology and they become able to use a problem solving approach, due to the fact that they have to produce an object starting from the idea they have. In this laboratory students, designers or simple curious technophiles find a stimulating environment, equipped workbenches, high-performance machinery and activities ranging from rapid prototyping to electronics, from 3D modeling to the production of small series and training.





Target groups	FabLab is the right place for people who have an idea or a project to be implemented and for who want to deepen their knowledge or share experiences and knowledge with other members. So the FabLab is open to individuals and to creatives and artists and to entrepreneurs and companies. In fact, students can conduct research, develop their thesis and realize demos or prototypes. Creative and artists might have the opportunity to meet people that able to realize their ideas. Entrepreneurs and companies can have access to highly technological instruments and machines for the development of their business. So these projects involve a wide part of the local community.
Duration	The project started from 2015 and now it's active.
Main strength and weaknesses	Strenghts • FARLAR projects involve a wide part of the local community
	 FABLAB projects involve a wide part of the local community. FabLab offers a venue to work where the members can express their ideas and creativity for realizing "custom made" objects through the methodology of learning by doing FabLab offers the possibility of comparison and cooperation to several professionals who together might realize innovative ideas In FABLAB laboratory students, designers or simple curious technophiles find a stimulating environment, equipped workbenches, high-performance machinery and activities ranging from rapid prototyping to electronics, from 3D modeling to the production of small series and training. Weaknesses Services are not completely free. People have to pay a members fee.
Lead organisation	Name of organization: Accademia di belle arti "Pietro Vannucci" Type of organisation: School/Institute/Educational centre (University) Mission:
Partner	Name of organization: Fabula Animations
organisation	Type of organisation: Cooperative Society
	Mission: they have artistic intent aimed at animation and synergistic
	contamination between art and digital technologies.
Financing Body and Programme	The company <i>Umbra Group</i> is institutional partner, so it supports the project.
Project area intervention	 International (specify the countries involved in the project) National X Local
Webpage	http://www.abafablab.it/