



D1.9

Open Maker Prototypes Demonstrator

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Project Acronym	OpenMaker
Project Full Title	Harnessing the power of Digital Social Platforms to shake up makers and manufacturing entrepreneurs towards a European Open Manufacturing ecosystem



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VERSION LOG

Version	Issue date	Authors	Notes
0.1	23/8/2018	Dario Marmo	Initial document structure
0.2	15/9/2018	Lubomir Billy, Tatiana Bartolome Campino, Nicola Higham, Dario Marmo	Final document structure
1.1	14/12/2018	Lubomir Billy, Tatiana Bartolome Campino, Nicola Higham, Dario Marmo	Final Draft
0.3	12/12/2018	Dario Marmo, Xavier Sandin	Final Document

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INTRODUCTION

The Pilot Support Scheme (PSS) Call is a pan-European contest aimed at awarding a total commission of €420,000 to successful partnerships between makers and manufacturers that hold the pioneering potential to break through the 4th Industrial Revolution. The programme is intended to foster collaboration and help the winners to prototype, test and launch their innovations and encourage business models that are sustainable and deliver social impact. The call for application was launched on the 18th of September and closed on the 18th of October. 137 applications have been submitted which brought together 310 makers, manufacturers and stakeholders.

The 21 Maker – Manufacturer partnerships have developed 21 product and/or process prototypes, up to TRL3, during 9 months of acceleration. The aim of this deliverable is to present the development of 21 ideas supported by the Open Maker PSS project during the last 9 months.

In each of the 4 OpenMaker Countries, 5 ideas have been selected. An additional prize has been awarded by the coordinator to an additional idea from Italy.

In the United Kingdom, OpenMaker funding to one of the selected ideas (SeaWeed Alchemy) has been withdrawn. Annex 10 explains the timeline that led to this decision being made and introduces the three ideas which have been selected by BICo from the reserve list to receive the remaining resources and develop the prototype. The end of their acceleration process will be by the end of January 2019.

The deliverable, considering its dimensions, has been organised as a sum of documents which can be used as a knowledge base of the project, with 21 documents describing in detail the 21 prototypes developed, and their acceleration process.

For each idea, the prototypes are described extensively in their technical and/or procedural components, the technology and tools used to develop them, the baseline technology and tools.

Followingly, prototypes' exploitation and degree of openness, as well as their planned follow up and potential further development, is clearly indicated. Moreover, the document describes the communication and dissemination activities undertaken by each developing team to promote their prototype during the Open Maker acceleration period.

Coherently with the selection criteria of the PSS call, the expected social and environmental impact are duly examined, making sure the gender perspective is considered in the analysis of each idea expected impact.

In those cases where this was already properly developed, a Business plan and Business model related to the exploitation of each prototype is described at the end of every idea demonstrator.

This may include agreements between makers and manufacturers who collaborated to its development, as well as the interactions and agreements with third actors involved during the process of prototype development, or that will be involved at the end of the process.

INDEX OF DEMOSTRATORS

SPAIN

ANNEX 1 - SamyLabs 3D SLM Printer

ANNEX 2 - AQUAPIONEERS KIT

ANNEX 3 - FENPS (Fall Early & Notification of Position System)

ANNEX 4 - JETCLAY

ANNEX 5 - GD3DWC

UNITED KINGDOM

ANNEX 6 - Aqua Running

ANNEX 7 - FUEd2

ANNEX 8 - Microhome

ANNEX 9 - Objocopier

ANNEX 10 - Sea Weed Alchemy – update and re-allocation of funds

ITALY

ANNEX 11 - HBRT (How to be a Robot Trainer)

ANNEX 12 - Circular Wool

ANNEX 13 - Tritino

ANNEX 14 - DCM (Digital Crystal Manufacturing)

ANNEX 15 - CoBoPro (Corrugated Board Prosthesis)

ANNEX 16 - Crafting Fashion with Robots

SLOVAKIA

ANNEX 17 - BIOM

ANNEX 18 - Biocultivator

ANNEX 19 - ClayNext

ANNEX 20 - Eco - Social Innovation

ANNEX 21 – LiDa (Light in the Dark)