

Roll out Strategy - PP7

D.T.3.3.2 Roll out Strategy for pilot activities
D.T.3.3.4 Roll out Strategy at national level

Version 1
2019

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1. Incorporation of innovative services and tools to your portfolio

1.1 Chapter 1 - Background

- Within the FLN project we have tested several tools and mentoring programmes. At the **RogLab Creathon**, a two days creative marathon, the teams of participants have created urban dens, modular pavilions or spatial designs for activities outdoors activities. Throughout the process the participants had a professional team of mentors working in 3D fabrication and modelling, architecture, biotechnology, electrical engineering and the art of spatial interventions to support them and offer some of their valuable advice. The event gathered more than 35 participants. While the goal of the Creathon was to attract a large number of interested audiences without a specific projects, the **City for Everyone** contest was a tool to inspire creators who already had project ideas to produce them with new fabrication technologies. Three projects were selected and developed with support of various mentors that we have involved for specific development needs of the winning projects. **City for everyone** contest that offered fabrication tools and mentorship to 3 development projects focused on solving different societal problems. In May 2017 RogLab announced the competition entitled **My school can be a makerspace!** Its goal was to work with teachers to develop training programmes that would introduce children to the world of digital fabrication technologies. Based on the project ideas submitted we selected two schools with whom we've been developing project-focused and collaborative educational programmes for children attending the second (grades 4-6) and third cycle (grades 7-9) at the elementary schools Tone Čufar in Ljubljana and Log Dragomer. In June 2018 RogLab made an open call for new mobile workshops that would be implemented within **FabBox**, the new tool for traveling laboratory. Eight new workshops proposals were selected and developed within the FLN project. In autumn 2018 a second call was published, this time it was a call for non profit organizations wishing to host and offer the FabBox workshops to their audiences. We have received 29 applications from schools and NGOs from all over Slovenia. Between December 2018 and April 2019 we have produced the FabBox workshops in 19 selected organisations. Within the **High Level Training** programme the most successful service developed was the 3D modeling training that we have offered to our audiences in autumn 2018. The demand for the training was so high that we have organized the second session in winter 2019.
- RogLab has already implemented the methods and the tools developed within the FabLabNet project. FabBox became our regular programme as well as 3D modeling training. We will offer more HLT to our users, such as workshops on materials and special techniques as well as creative workshops for adults. The results from My School can be a Makerspace



became the foundation for advocacy for reform of the primary school curriculum. The Creation and the City for all contests provided tools and work methods for our international creative contest RogLab Open. In 2019 we have published the Active Aging thematic call and selected the international participants who will be supported in development of their projects.

1.2 Chapter 2 - Goal and expected outcomes

- Our vision is to support and stimulate the development projects tackling different social challenges
- Our goal is to support children, general audience and professional creators with knowledge and with tools which will enable them to successfully tackle challenges that are awaiting in the future.
- The expected outcomes: awareness raising for the need of interdisciplinary approach to learning in schools, more professionals deciding to develop socially and environmentally meaningful projects, awareness raising on benefits and dangers of non informed use of technologies.

1.3 Chapter 3 - Target groups

- Our target groups are children, schools, general audiences, professional creators and students
- One of important tools for all target groups will be FabBox which will enable presentation of our work and values in different institutions all over Slovenia. The general audience will be furthermore tackled via afternoon creative workshops for adults while the children will be reached via RogLab Saturday workshops. The professional and Student audience will be reached via High level programmes such as Rhino trainings and creative contests.
- Children will benefit from interesting ways to spend their free time, schools will benefit from getting new contents for the pupils which are otherwise difficult to implement in the school programme, general public will get better aware of the challenges of the fourth industrial revolution, professionals and students will get knowledge that is not available in schools or is too expensive in the market. Furthermore, those who will take part in the competitions, will get the opportunity to develop their ideas in tangible prototypes and will also get visibility via the prototypes exhibition and other promotion materials.

1.4 Chapter 4 - Content of the action

- Every autumn we will publish a call for organizations who wish to host a FabBox workshop, we will accept 6 - 8 organisations and visit them during January and February next year when our program in Ljubljana is not so intense. Twice per year we will organize a 2,5 month Rhino training, 1 per month we will organize either a HLT on new materials such as composite materials or a creative workshop for adults on electronics, recycling and others.



Once per year we will organize an international open call RogLab Open and an international prototyping workshop with participants.

- For all our training and courses we take up to 8 participants since we do not have more space in RogLab.

1.5 Chapter 5 - Timeline

- each month- advertisement for HLT (materials, new techniques, ..), children workshops
- September
 - call for interest for FabBox workshops, advertising Rhino training
- October-November
 - Rhino training
- January
 - call for partner and designers for RogLab Open
- January - July
 - implementation of FabBox workshops
- April - May
 - RogLab Open remote prototyping
- June
 - international RogLab Open workshop

1.6 Chapter 6 - Budget

- Creathon: around 10000€
- Mentoring program “City for all”: around 15000€
- Rhino: 600 per training for mentor + 400 eur + 6000 operational costs
- HLT workshops: 200 - 400 per workshops for mentors and materials + 377 operational costs
- creative workshops for adults: 200 - 400 per workshops for mentors and materials + 377 operational costs
- children workshops: 200 - 250 per workshop for mentors and materials + 377 operational costs
- fabbox workshops: 250 - 500 per workshop for mentors, materials and travel + 377 operational costs
- RogLab Open: 58500 (per call: mentors, prizes, plane tickets, hotels, materials, photo, video, exhibition, food) + 1200 operational costs (red)

Financial resources (own resources, national grants)

1.7 Chapter 7 - Assessment of the environment

Choose only one: [SWOT](#)



Strengths

- years of experience, good local network, community of users, excellent team of managers and technicians, good communication tools

Weaknesses

- small physical space, small machines, no place for hanging, not enough connections with international centers focused on societal and environmental issues

Opportunities

- better exploitation of local, central European and international fablab networks

Threats

- unstable financing

1.8 Chapter 8 - Cooperation

- Partner institutions: FabLabNet members, 16 local partners: NGOs, universities, businesses, NGOs, primary schools, cultural institutions
- Policy makers, City of Ljubljana

1.9 Chapter 9 - Advertisement

- Web page, Facebook, Instagram, mailing list, live presentations in schools and at specialised events



3. Strategies to target policy makers to spread Fablabs nation-wide

3.1 Chapter 1 -Background

In 2017, a national network of fablabs have been established by the Electrotechnical Faculty of the University of Ljubljana. One of their main mission is to spread FabLabs nation-wide toward policy makers. However, concrete actions to support fablabs are still expected.

3.2 Chapter 2 - Vision and Mission statement

The FabLab network represents a platform of education, intergenerational integration, creation and support for creatives, start-up companies and existing companies. The National Network FabLab Slovenia is a technology-aided environment for prototyping innovation and inventions, and an incentive for a circular economy and local entrepreneurship.

3.3 Chapter 3 - Action

Foreseen actions to outreach policy makers will be performed on two levels. At first, we will use the output of FabLabNet project to implement appropriate programs to engage local and international communities in order to catalyse grass-root innovation and boost local young entrepreneurs. The design contest RogLab Open Active Aging will start in spring 2019 and is the synthesis of all best practices from Pilots actions of the project FabLabNet. This will be used as a proof of concept to the policy makers to demonstrate the effective contribution and potential of fablabs within the local innovation ecosystem.

After these actions, we are expecting a greater receptivity and understandability from the policy makers and therefore an impact in their decisions.

3.4 Chapter 4 - Stakeholders and target groups

Key policy makers for RogLab and creation of a national network are the Municipality of Ljubljana, the Ministry of economic development and technology, the Ministry of education, science and sport and the Ministry of culture on national level. The National network of FabLabs has already set a strategy how to outreach the policy makers at the national level. RogLab will support them in this initiative by sharing all the output of our actions. Besides, RogLab will continue to directly outreach policy makers at the local level.

3.5 Chapter 5 - Policies targeted

Smart specialisation strategy of Slovenia. City strategies for next years.



3.6 Chapter 6 - Recommendations

From the experience we gained during the implementation of the project, we can recommend to focus on one specific area to attract young entrepreneurs (we focus on socially beneficial ideas). This gives a clear identity to the fablab, a more powerful communication statement, which is the recipe for attracting the best ideas which leads to the most innovative products.

3.7 Chapter 7 - Financial sustainability and resources

Our mother institutions will unfortunately not be able to bear the financial burden which represents a future participation to any Interreg programs. Beside local subsidiaries, we will apply to direct EC finances programs (Creative Europes, Horizon, etc.).