

Suscamp Barcelona Camp

abstract proposal:

The Barcelona Suscamp will provide expertise, professional services and infrastructure for prototyping and batch production of co-designed products made with recycled and upcycled materials. Suscamp partners Femprocomuns will host Barcelona Suscamp connecting three circles: 1) consumers who pool their needs and fund small batch production of customised on-demand products; 2) industrial designers (will aim at a mix of independent SME's design studios) interested to participate in co-design of open source circular economy business models; 3) Fablabs/maker spaces for prototyping and small batch production.

- 1) The circle of consumers committed to the transition towards a social, open source, circular economy express their needs through questionnaires and co-creation processes, pool funds around agreed products and services and demand the design and production circles.
- 2) The circle of designers, including freelance and SME's, contribute to a shared catalogue of products and services that can be customised on demand and form the starting point for new design phases in connection with the demands from the consumer circle and with the capabilities of the production circle.
- 3) The circle of producers include Fablabs/makerspaces, repair and flexible fabrication facilities that can answer and adjust their fabrication process to the needs of the designers and the small batches demanded by the consumers.

Barcelona Suscamp will act as a hub that provides its affiliated members (Fablabs, designers and community of consumers) know-how, formation and physical environment allowing dynamic and efficient interaction throughout the prototyping and batch production process. It will also create a network of industrial partners with the capacity to provide left-overs and wasted materials that can feed the supply chain.

The Barcelona Suscamp will develop around 5 lines of actions

- 1) education and dissemination of open source methodology as mean to boost economical activities and sustainable production
- 2) development and implementation of an economically sustainable replicable circular model of co-production of sustainable functional objects and products
- 3) access to consumers committed to the transition towards a sustainable

model, identify collective needs and agree to fund the products and services that raise most shared interest

4) expansion of economical activities for Fablabs/maker space, designers and industrial partners through transversal co-design collaboration for the creation of open source market ready products

5) providing distribution and infrastructure for batch production of a collection of co-designed open-source products and solutions.

The aim is to create the condition for Fablabs/makerspace and independant designers and Design SME's to:

1) boost their respetiv economical activities through dynamic interaction

2) engage in co-creation and integrate recycled and upcycled materials in the supply chain

3) accelerate prototyping process and reduce production costs and environmental impact

4) provide market and consumers access to sustainable original products at reasonable price.

5) stimulate local economy and reusue of locally availbale ressources

6) validate economic sustainability of open source business model and methodology of production

Through its activities the Barceona Suscamp will 1) establish collaboration protocol and methodology and mentoring for the integration of open source business models and economical sustainability of the Barcelona Suscamp,

2) create a local innovation network of industrial partners that can provide recycling and upcycling materials. 3) develop a collection of open-design products and service

4) matchmaking between Fablabs space and designers (identifying needs and direct them to the most idoneous Fablab/maker according to their corresponding specialization.

5) coordination of the different initiatives, projects and activities

6) communication and dissemination.

Partnership structure:

Femprocomuns non profit cooperative, Suscamp partner and host of Barcelona Suscamp.

Potential Affiliated fablabs: (TBC)

1) Fablab Sant Cugat (private Fablab located on the campus of Esade

University)

2) Tinkerers Fablab (located on the campus of Politècnic University of Castelldefells)

3) ESDI Fablab (Design University in Sabadell) -

4) Ateneo de Fabricación digital de Barcelona (3 public Fablabs offering expertise, service and digital fabrication infrastructure + access to local community of consumers)

Potential co-working Design SME's (TBC)

-Betahaus (co-working space specialized in product design to act as cluster of designers)

-Atta33 (co-working space specialized in product design to act as cluster of designers)

-Nodo design studio (SME's of industrial designers)

Budget and financial structure:

Femprocomuns will act as the financial Suscamp partner and will channel EU funding (100% of direct costs + 25% indirect costs) to its affiliated Fablabs and designed entities members.

Estimated budget

Year 1: 93 000 euros

Year 2: 124 000 euros

Year 3: 101 000 euros

Total : 318 000 euros

Plan of action:

The project has a 3 stages work process:

Year 1: Face to Face cooperation between SME and FabLabs

The first year we will focus on:

1) developing the collaborative methodology and run practical workshops with affiliated fablabs managers and groups of designer.

2) establish partnership with local industry capable of providing recyclable and upcyclable materials

3) identify potential consumer and define type of products that can respond to their needs.

Year 2: web-based cooperation of SME and FabLab based on case brought in

by the SME.

1) practical implementation of the co-creation methodology in each affiliated Fablabs (TBD).

2) Develop 3 products per fablabs/maker space that allows consumer community to interact with the product designer and to participate in the fabrication process of the actual prototype.

3) batch production of each co-created prototypes (units produced will depend of the consumer's community need/order)

Year 3: Co-creation process between a SUSCAMP partnered FabLab (maybe Barcelona, maybe Vilnius or London or Berlin) with a completely unknown / uninformed SME to test if we learned our lessons well in year one and two.

1) implement batch production of each prototypes in each of the fablabs

2) collaborate with another Suscamp Fablab to replicate methodology, co-creation process in their territory

3) apply the production model through a collaboration with a commercial distributor - collaborate with a Furniture SME's to co-create a product that responds to an identified niche of their market.