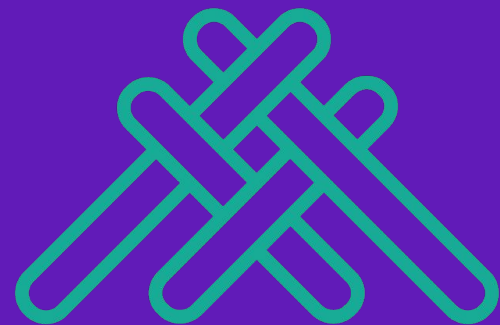


# A journey at the intersection between textiles, soft fabrication and biology



**FABRICADEMY**  
a new textile academy

STARTING: SEPTEMBER 26, 2017

# WHY?

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The fashion industry is one of the most traditional and the **2nd most polluting in the world after oil.**

**Today 20% of water pollution globally is caused by textile processing** and consumers worldwide spent US\$1.7 trillion on clothing in 2014. The production of the clothes we use is sustained over devastating social consequences in countries like Bangladesh and China, **where labour exploitation holds the low prices we love to pay in H&M, Zara and other fast fashion brands.**





## SCOPE

Train a new generation of professionals in the textile industry, working globally for developing more sustainable processes with the help of digital fabrication, synthetic biology and knowledge networks.





Fabricademy is a transdisciplinary course that focuses on the development of new technologies applied in the textile industry, in its broad range of applications, from the fashion industry to the upcoming wearable market

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# THE PROGRAM

13 Weeks of lectures

2.5 Months of project development

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State of the art

Digital Bodies

Circular Open Source Fashion

Bio dyes & Bio-fabrics

E-textiles & Wearables I

Computational Couture

Textile as Scaffold

Open source Hardware

E-textiles & Wearables II

Implications and applications

Soft Robotics

Skin electronics

Final presentation

# CLASSES

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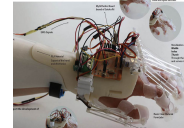
**State of the Art**  
WEEK 1



**Bio Fabricating Dyes & fabrics**  
WEEK 4



**Textile as Scaffold**  
WEEK 7



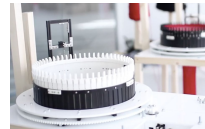
**Implications and Applications**  
WEEK 10



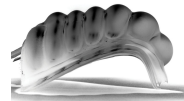
**Digital Bodies**  
WEEK 2



**E-Textiles and Wearables I**  
WEEK 5



**Open Source Hardware**  
WEEK 8



**Soft Robotics**  
WEEK 11



**Circular Open Source Fashion**  
WEEK 3



**Computational Couture**  
WEEK 6



**E-Textiles and Wearables II**  
WEEK 9



**Skin Electronics**  
WEEK 12

# WEEKLY FLOW

A week in Fabricademy

**Tuesday morning**

Reviews

**Wednesday morning**

Local classes  
13 weeks

**Wednesday - Monday**

Assignment production  
13 weeks

**Tuesday afternoon**

Global classes  
13 weeks

**Thursday afternoon**

Global recitations  
13 weeks

# COORDINATION

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**Anastasia  
Pistofidou**

FABTEXTILES, BARCELONA



**Fiore  
Basile**

FAB LAB TOSCANA,  
FABCTORY



**Cecilia  
Raspanti**

TEXTILE LAB AMSTERDAM  
WAAG SOCIETY



# THE FACULTY

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**Anastasia  
Pistofidou**

FABTEXTILES,  
FAB LAB BARCELONA



**Cecilia  
Raspanti**

TEXTILELAB AMSTERDAM  
FABLAB AMSTERDAM  
WAAG SOCIETY



**Zoe  
Romano**

WE MAKE, MILAN



**Oscar  
Tomico**

ELISAVA,  
BARCELONA



**Aldo  
Sollazzo**

NOUMENA IAAC  
BARCELONA



**Mika  
Satomi**

KOBAKANT



**Hanna  
Parner-Wilson**

KOBAKANT



**Varvara  
& Mar**

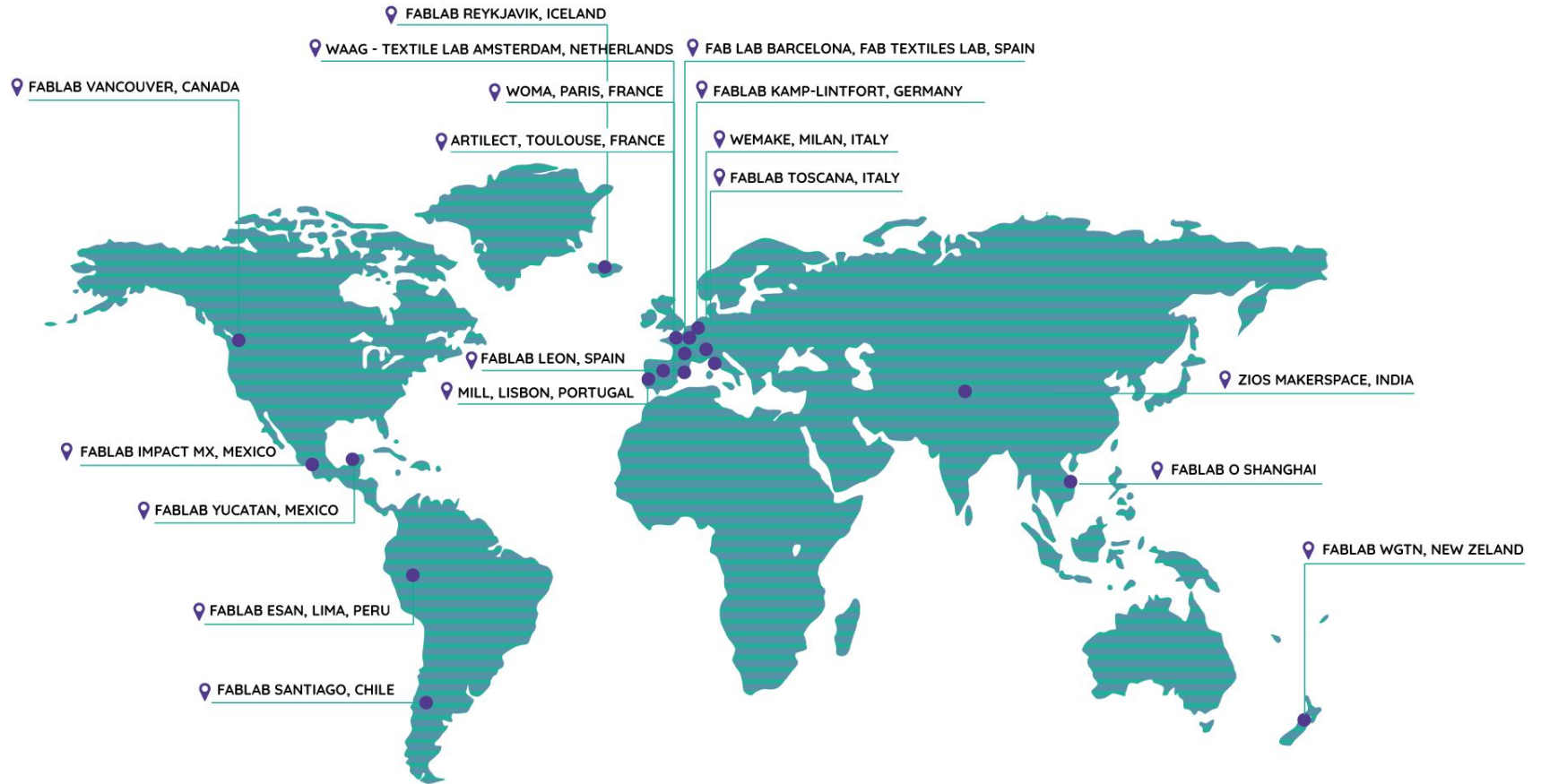
MAR CANET & VARVARA  
GULJAJEVA ARTIST DUO



**Becky  
Steward**

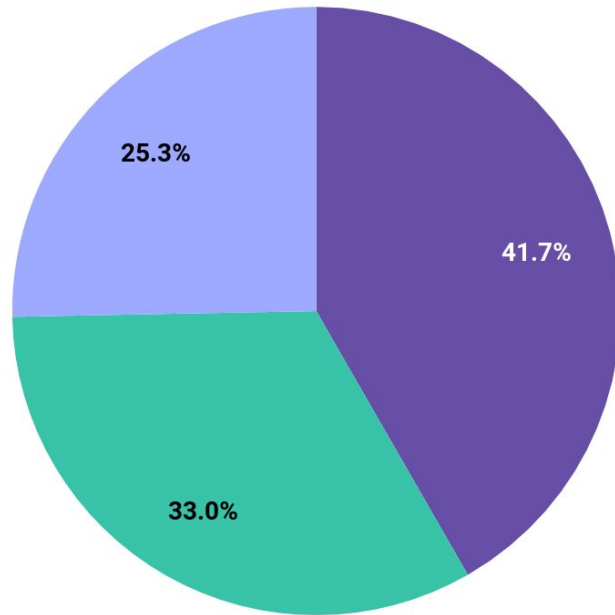
THE LEADING ZERO

# LOCAL & GLOBAL



# FUNDING STRATEGIES

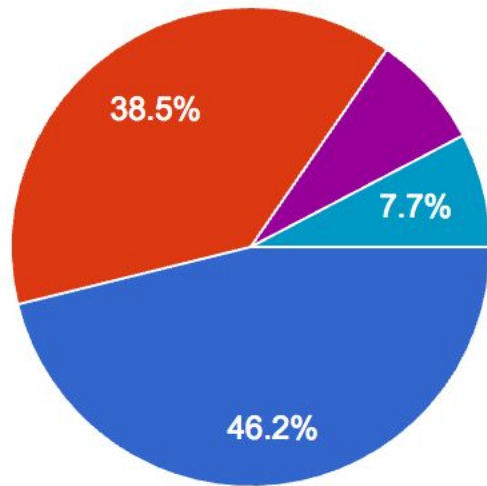
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- Lab will pay
- Apply for a grant
- Other

# INSTRUCTOR TRAINING

Who is the local tutor of your Lab that will run Fabricademy?



- I will run it by myself
- I will distribute courses between me and other people that work in the N...
- I will hire somebody that I have in mind
- I will post a job position in fabeconomy webpage
- Students will attend by themselves and I will supervise ocasionaly
- I will run it internally (for people wor...



FABRICADEMY BOOTCAMP /  
FEBRUARY 2017  
& the online nodes

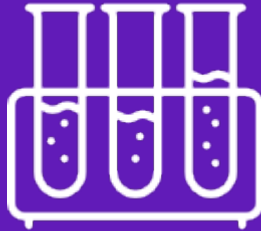
# INVENTORY ADD ON

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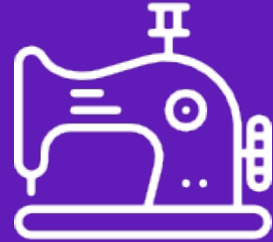
Fab Lab

+

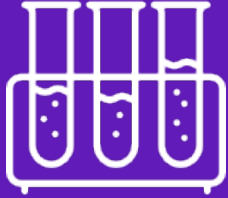


Bio lab

+



Textile lab

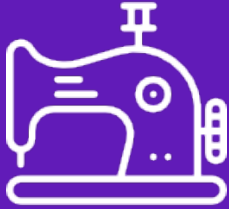


## Bio lab

A kitchen, with water, refrigerator, pressure cooker will also work

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- Pipetting equipment
- Scale
- Water purification system
- MicroCentrifuge
- Refrigeration (-4/-20)
- Incubator
- Microscope
- Consumables



# Textile lab

All the necessary equipment for soft fabrication, complementing the Fab Lab Inventory.

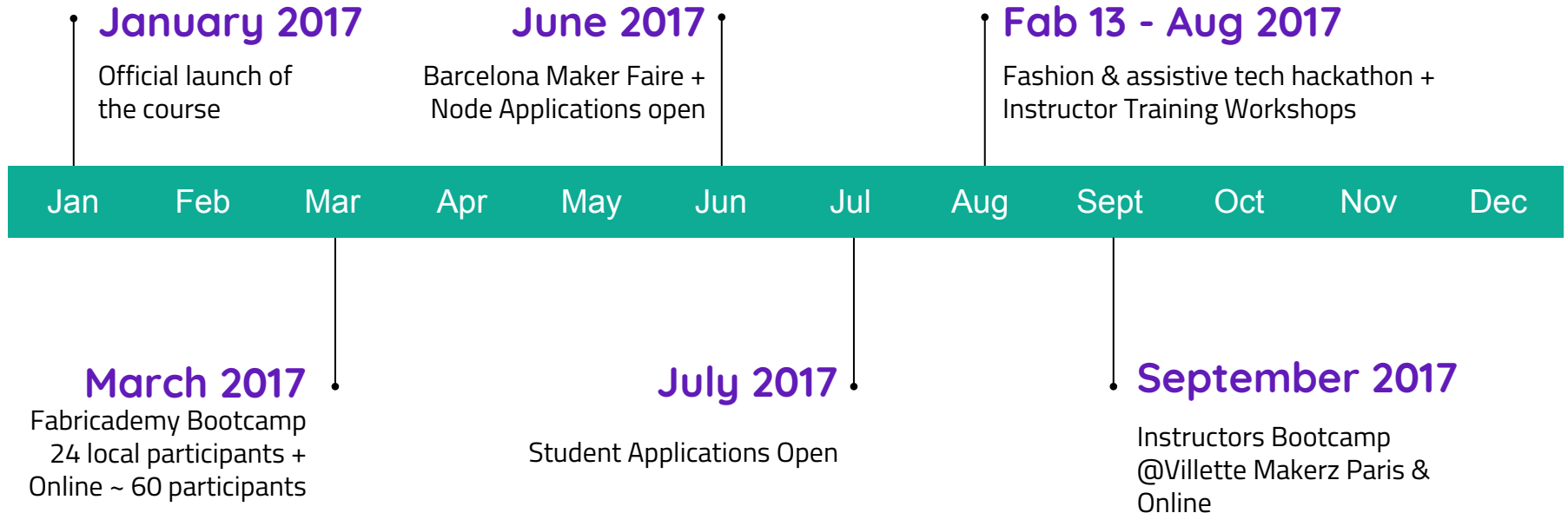
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- Sewing machine - industrial
- Overlock machine - industrial
- Sewing machine small digital
- Knitting machine
- Fab Loom
- Soft actuators - e-textiles
- Tools: Scissors, needles, et c
- Consumables: threads, yarns, natural fibers, etc
- Big working tables
- Embroidery machine



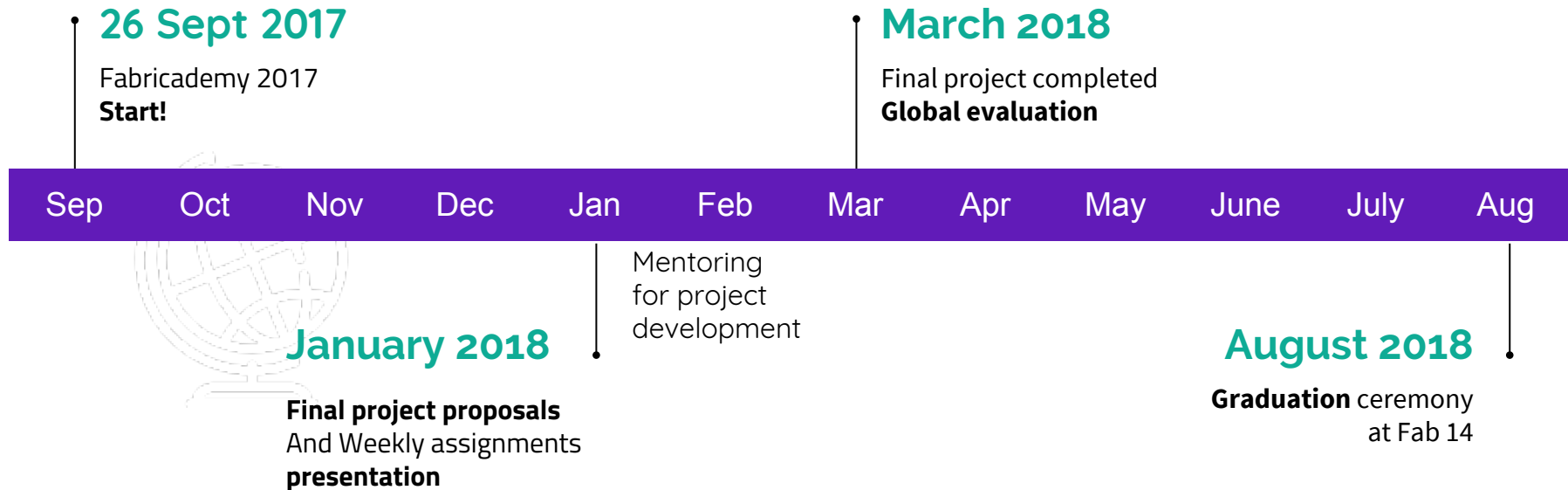
# TIMELINE

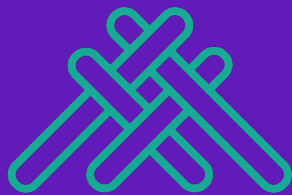
Training the future instructors



# NEXT STEPS

The first Fabricademy Cycle





This journey starts today,  
all over the world.  
[textile-academy.org/join](https://textile-academy.org/join)

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[@fabricademy](https://www.instagram.com/fabricademy)   