

# Zoe Romano Hacking the Fashion System

@zoescope

Fabricademy 2017



#### wemake.cc #makerspace #fablab

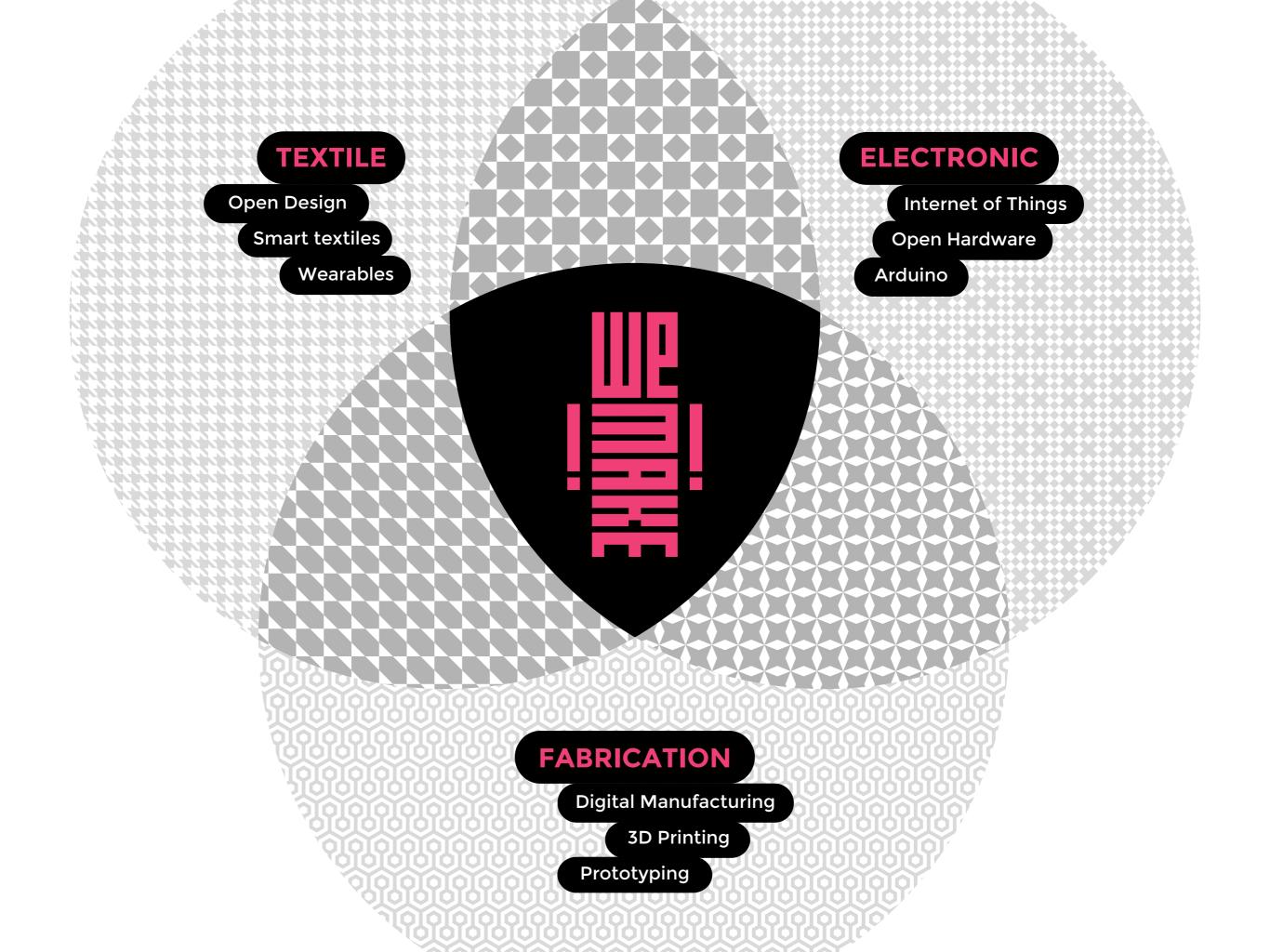


WeMake is a makerspace in Milan providing a series of **services and training** to the creative community of the region in the field of digital and traditional manufacturing.

WeMake is a 250sq/mt urban multifunctional fabled providing open and membership based access to digital fabrication tools.

Clearing the difference between prototype and finished object, we foster the development of a **new model of designer-producer** (maker) and small-scale company by facilitating

- the engineering phase,
- the rapid iteration of design solutions,
- the on-demand production of physical/digital artefacts.

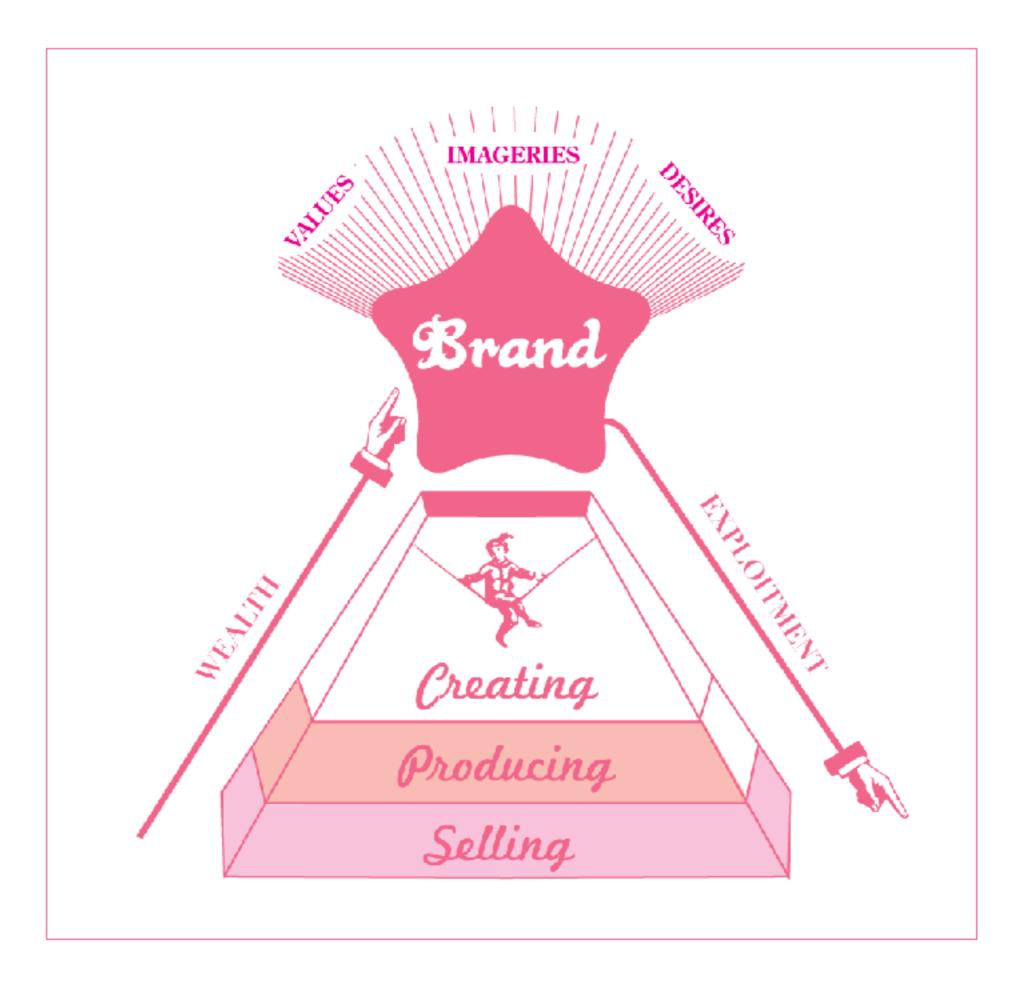


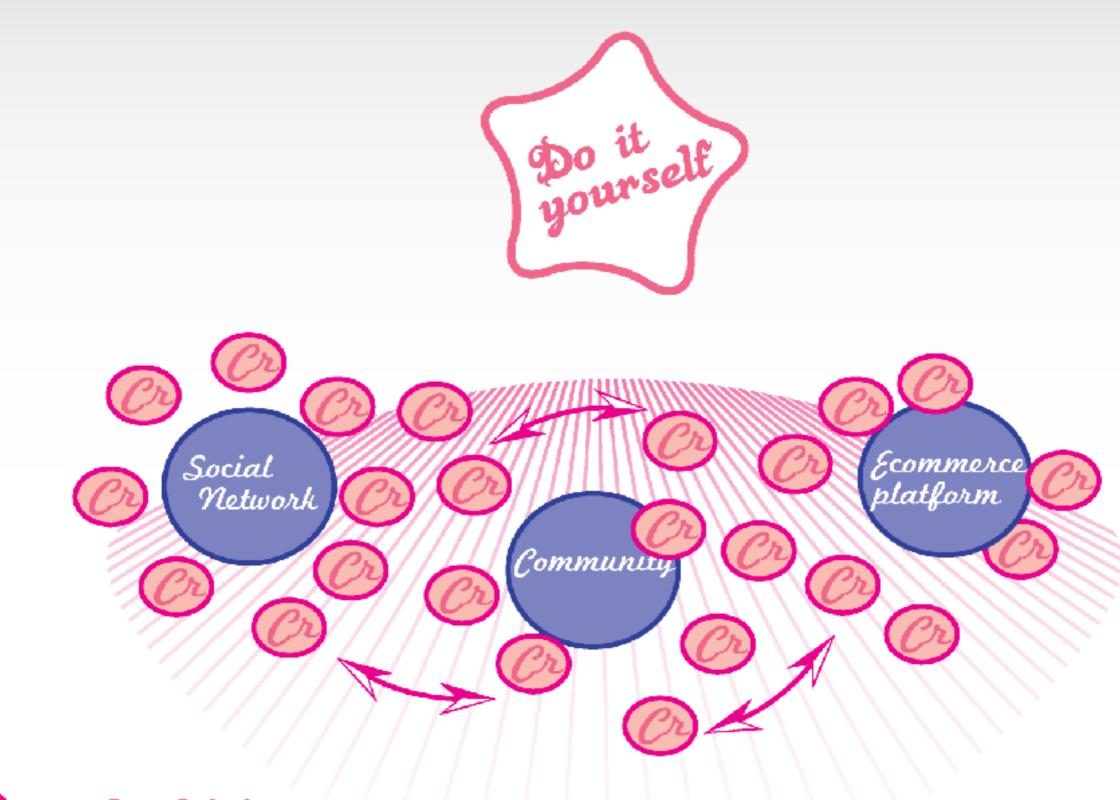


## **FASHION CONGLOMERATES**



http://www.purfe.com.au/who-owns-whom-in-fashion/









# From DIY to DIT



# WHAT IS CHANGING

#### EASIER THAN EVER DATA>OBJECTS>DATA

- Modularity
- Flexibility
- Open codes

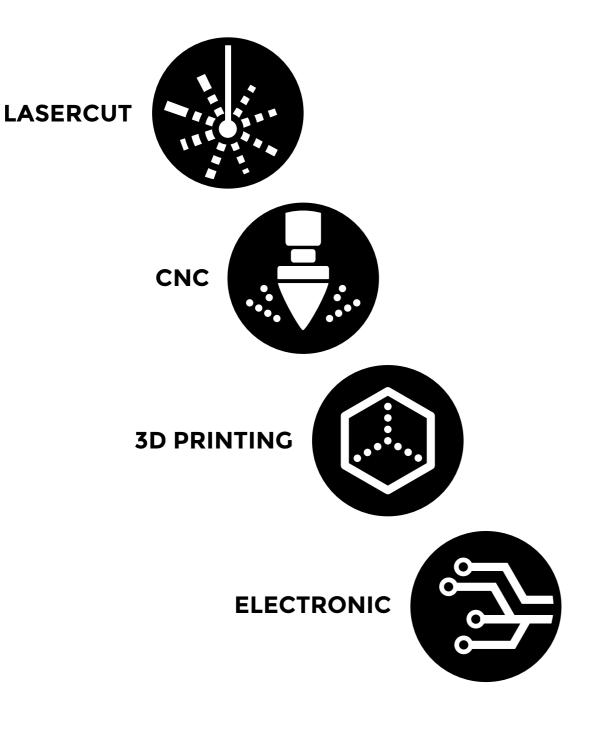
### OFTEN THAN EVER BOTTOM UP INNOVATION

- Interdisciplinarity
- Horizontality
- Self-organization



## FABLABS AND MAKERSPACES A SPACE TO LEARN AND CREATE TOGETHER

# **NEW FASHION TOOLS**



(hacked)

- Sewing machines
- Knitting machines
- Embroidery machines

- Soft Circuits
- Bio Composites
- New materials

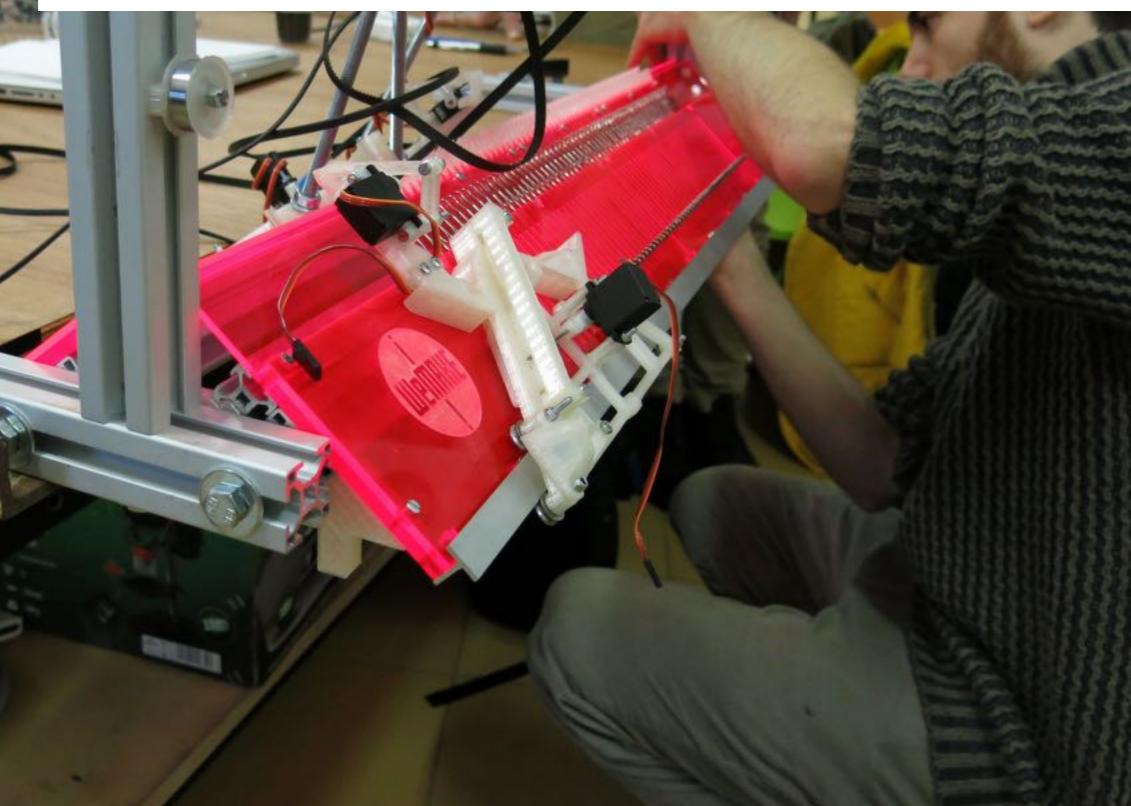
## INTELLECTUAL PROPERTY ///> OPENNESS

## PRODUCT ///> PLATFORM

FAST ///> SLOW



## INTELLECTUAL PROPERTY ///> OPENNESS



## **TYPES OF OPENNESS**

#### Open source software

(OSS) is computer software with its **source code made available** with a **license** in which the copyright holder provides the rights to study, change, and distribute the software to anyone and for any purpose

#### Open source hardware

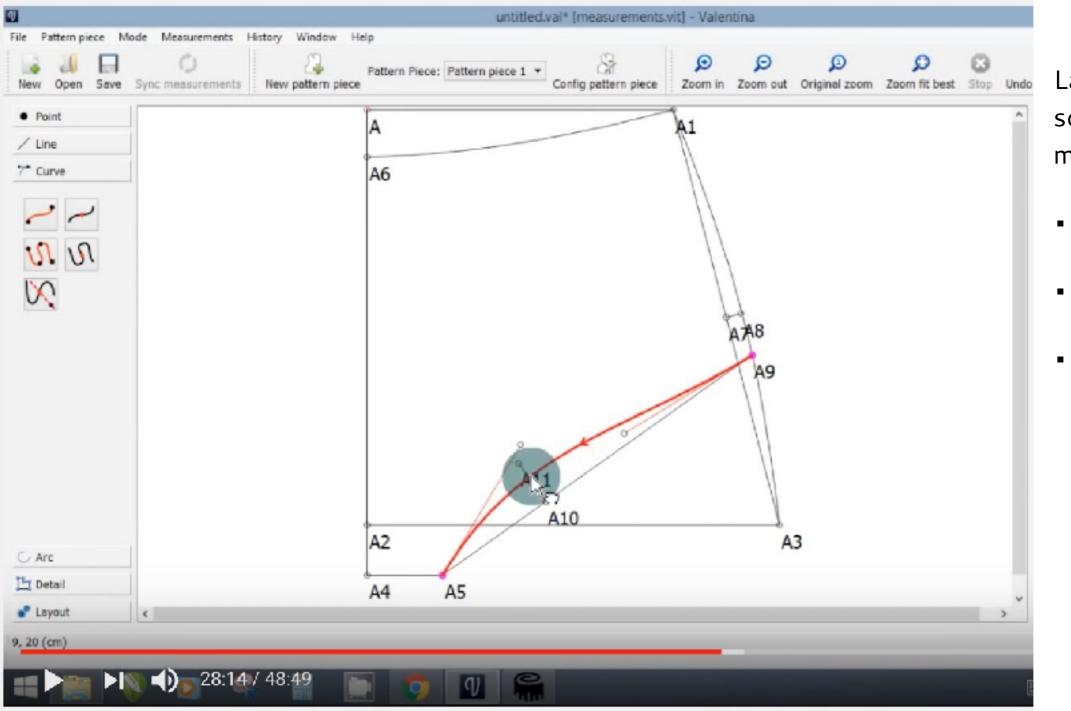
(OSHW) is hardware whose **design is made publicly** available so that anyone can study, modify, distribute, make, and sell the design or hardware based on that design.

Open design is the development of physical products, machines and systems through use of publicly shared design information. Open data is data that distributed in a convenient and modifiable form which can be freely used, re-used and redistributed by anyone – subject only, at most, to the requirement to attribute and sharealike.

#### **OPEN SOURCE SOFTWARES**

#### VALENTINA

Open source pattern making software



Lack of affordable softwares for pattern making tasks

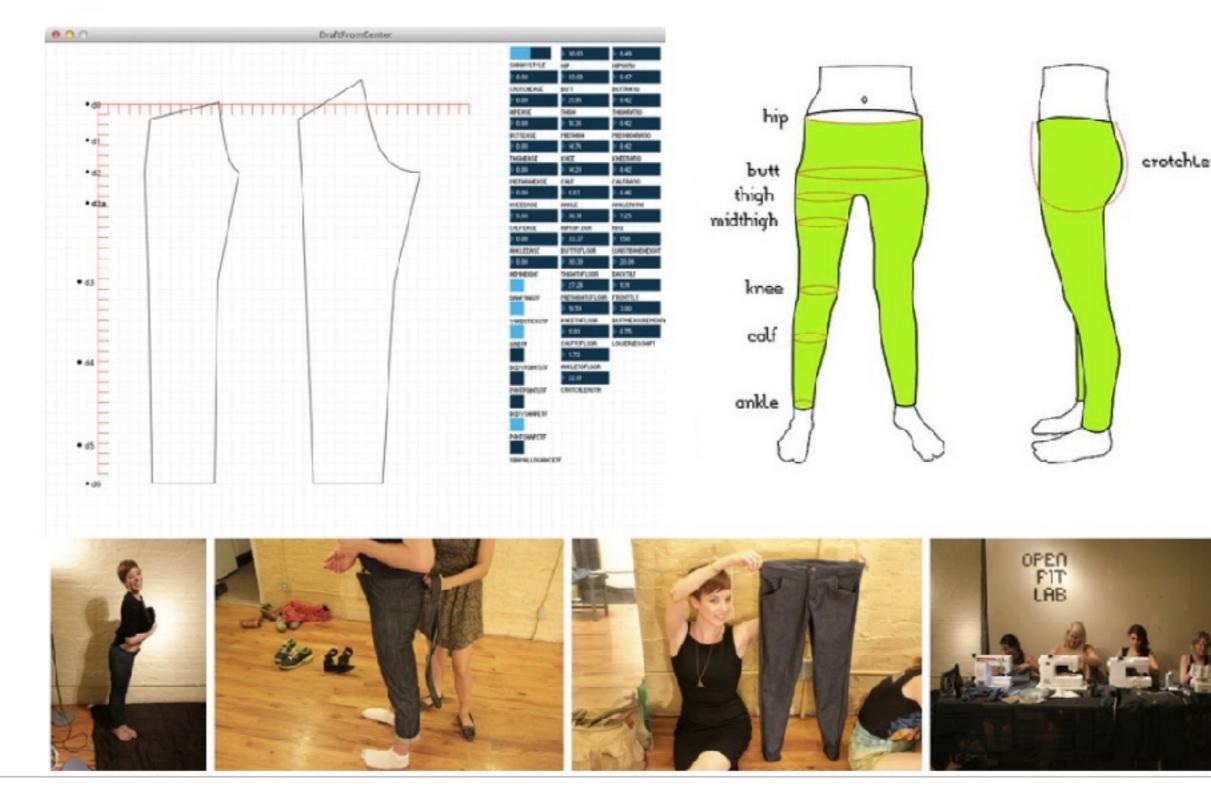
- Seam allowance
- Truing a dart
- Easy multi-sizing

Opensource.com lists Valentina in 2016's top creative FOSS tools

#### **BLENDER** Cloth Simulation



#### **OpenFitLab** From scanning to trousers

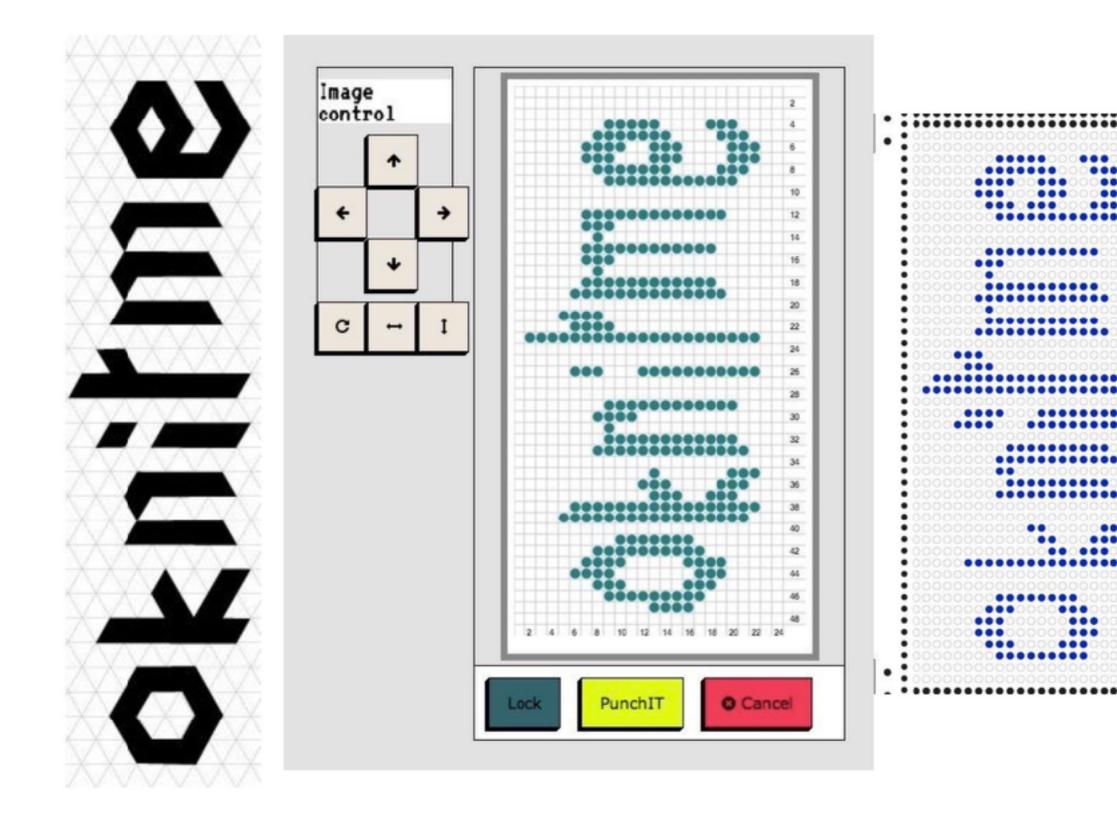


#### OKNITME

#### Creating punch card from 2-color images - by Serpica Naro



#### **OKNITME** Creating punch card from 2-color imges



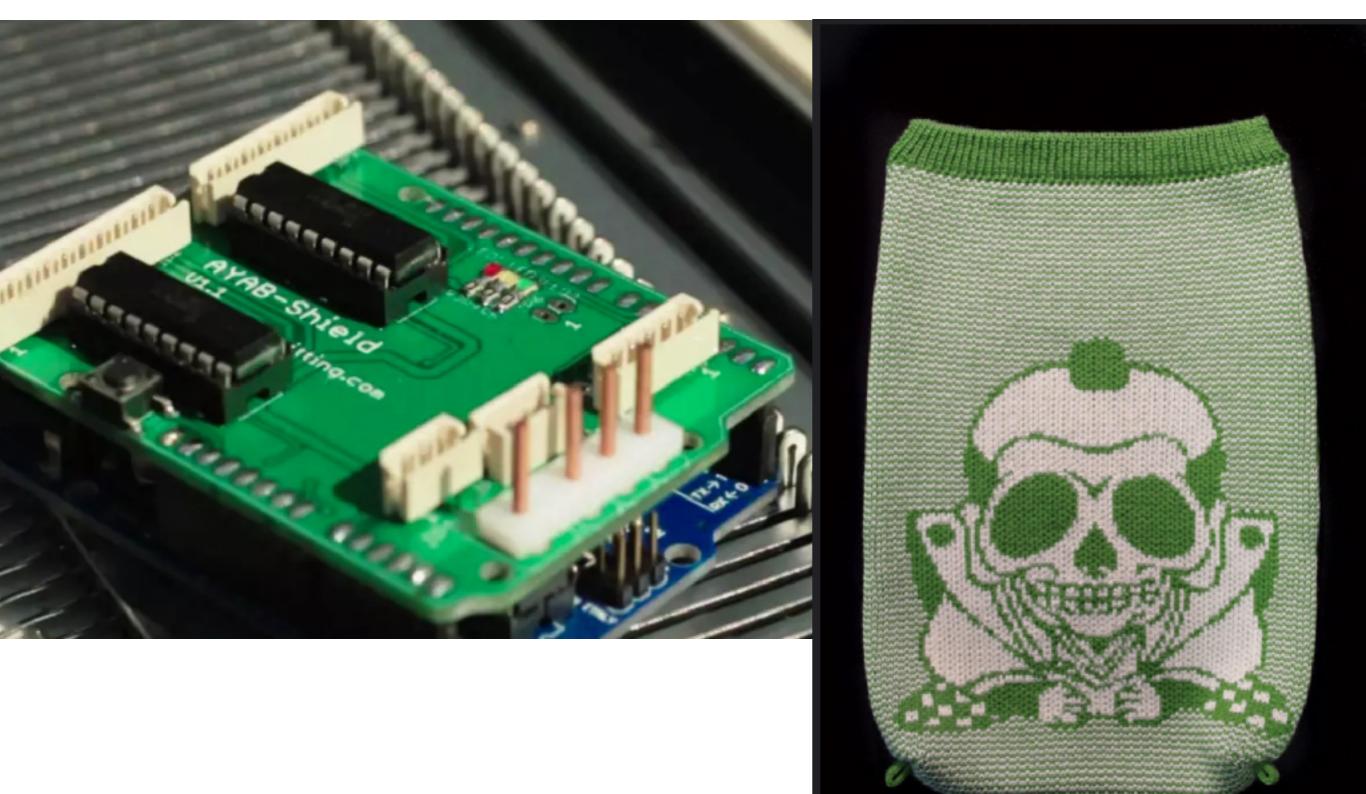
#### OKNITME

Creating punch card from 2-color images



#### **OPEN SOURCE HARDWARE**

### **AYAB Shield** Arduino shield to hack digital knitting machines



Knitted bag by RATATATA - Claudia Scarpa - Made at WeMake

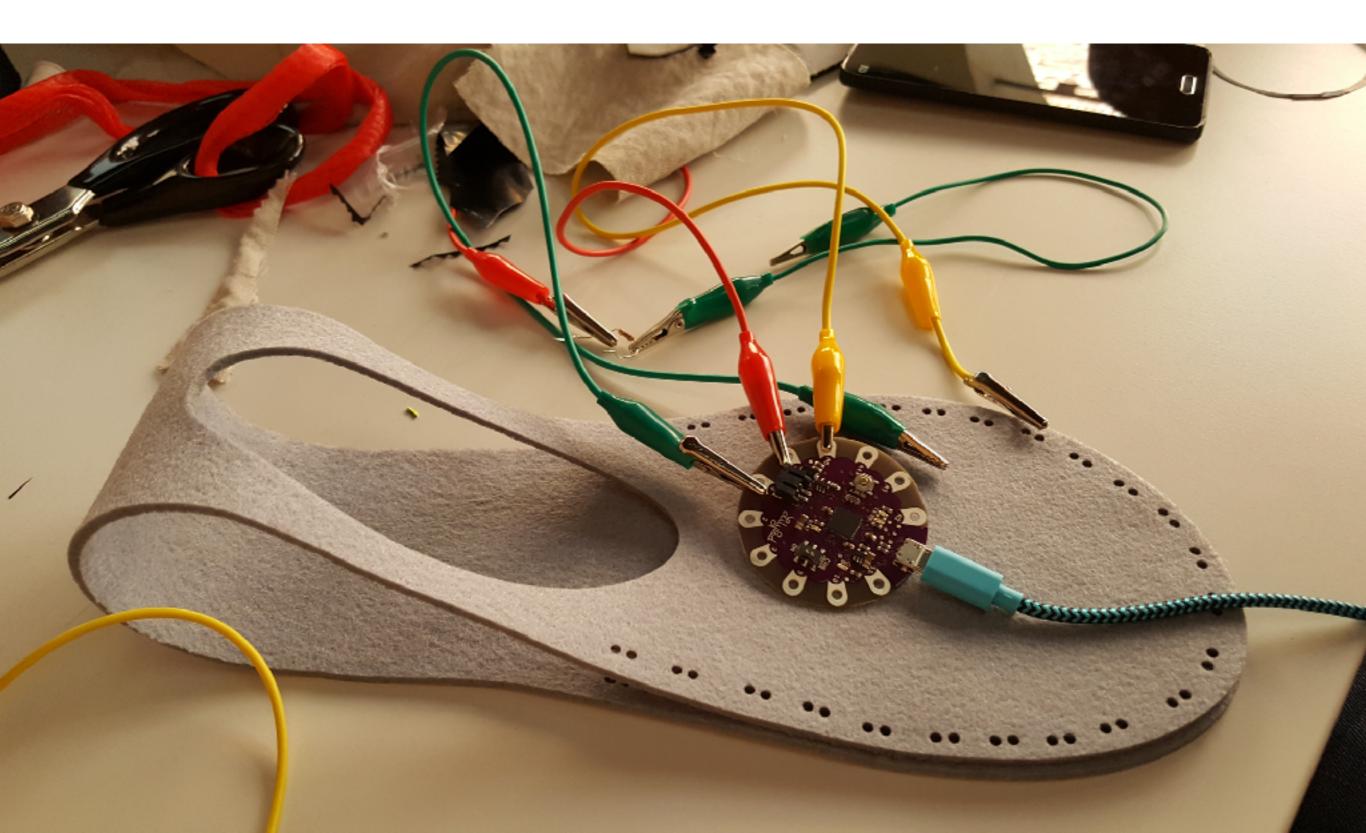
### **Circular Knitic**

Integrating textile manufacturing into the contemporary makers' culture

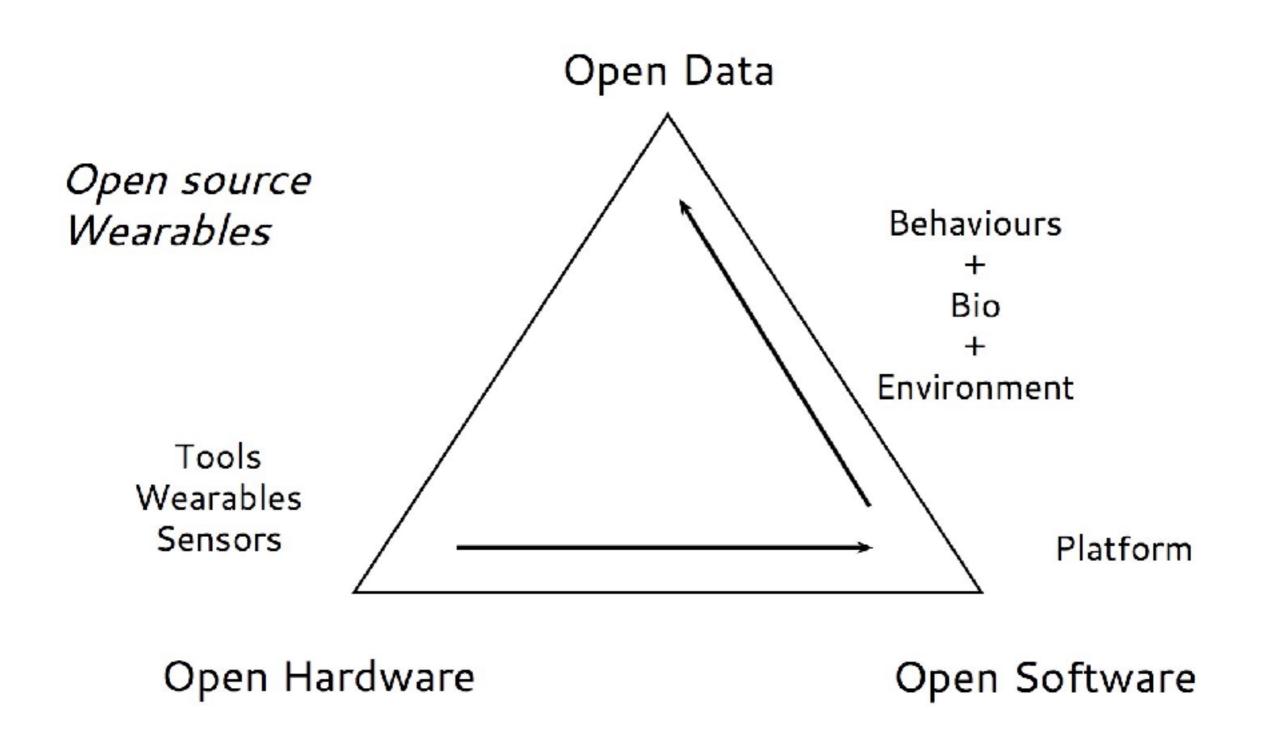


#### **Smart textiles - Open Design for wearables**

Empowering people with wearables and soft circuits



### **INTERDISCIPLINARY APPROACH**



### **OPEN SOURCE BRANDING**

# **SERPICA NARO**



In 2005 the first **open source brand** in fashion created from a hoax during Milan fashion week

THE JOURNAL OF DESIGN STRATEGIES

Alternative Fashion Systems

VOL. 7, NO. 1 | FALL 2014

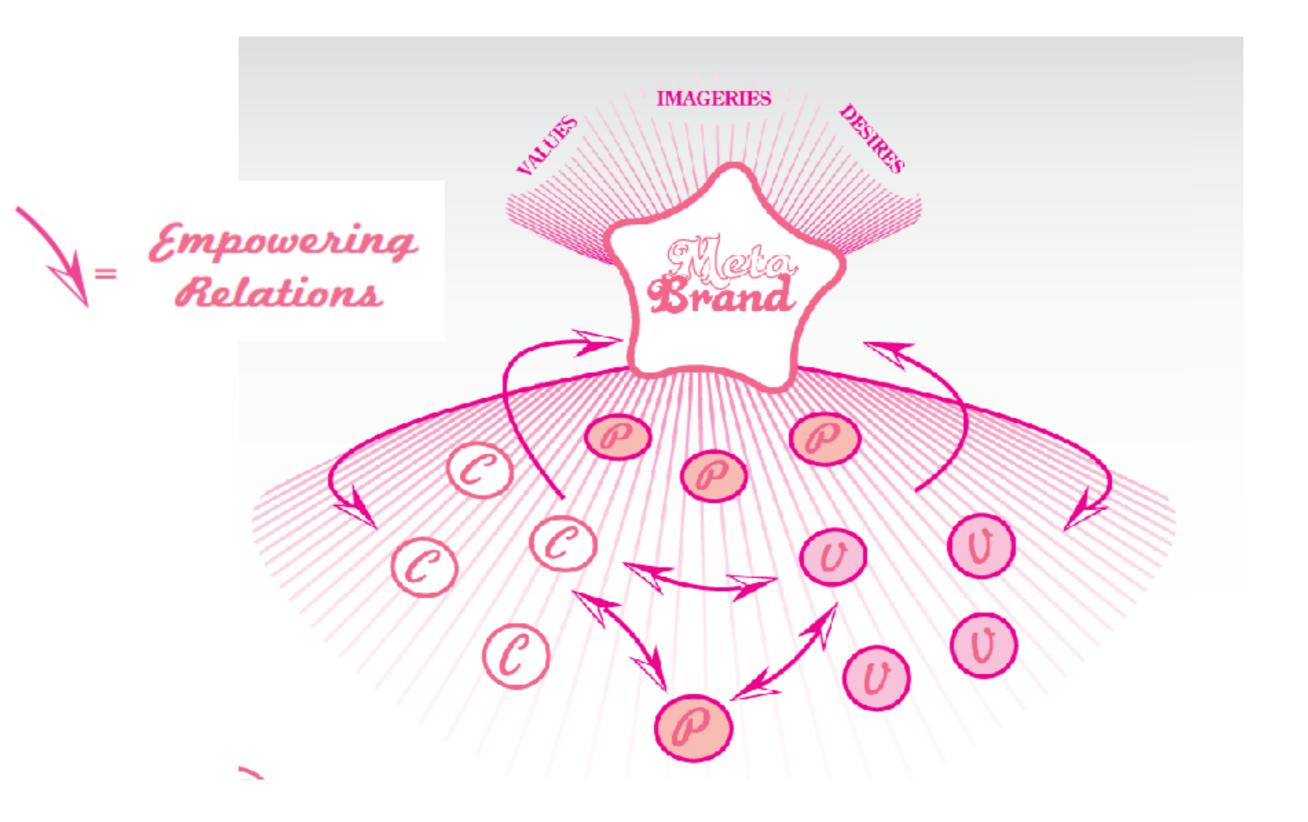
PARSONS THE NEW SCHOOL FOR DESIGN

http://sds.parsons.edu/designdialogues/?post\_type=article&p=634



**OPENWEAR** 

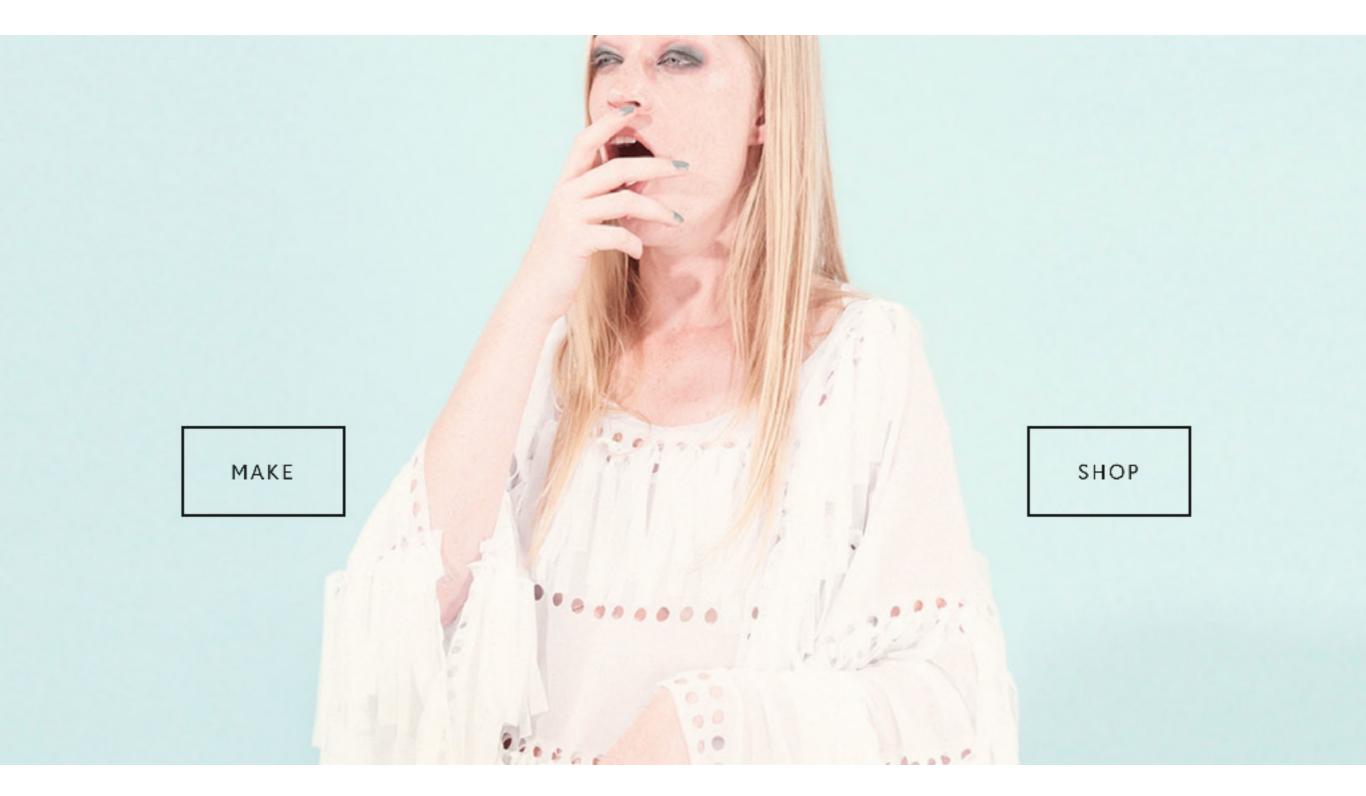
- A collaborative community around fashion production
  - A series of Collaborative collection with an open-source brand
- Prototypes freely downloadable which members can produce and sell, benefiting from the social innovation created within the community.



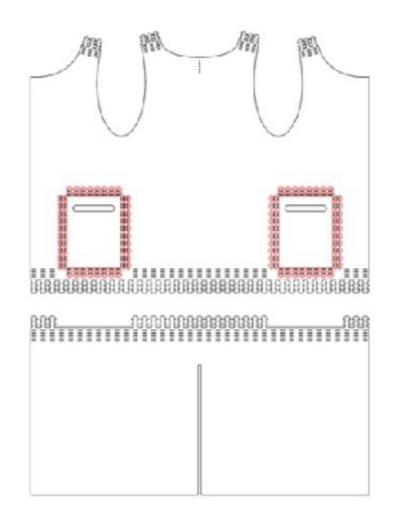
A brand made o **empower a network of small producers** and promote a different kind of fashion based on collaboration, sharing, short supply chain and else.

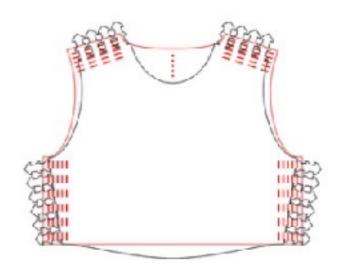
## **PRODUCT / PLATFORM**

## **POST-COUTURE**



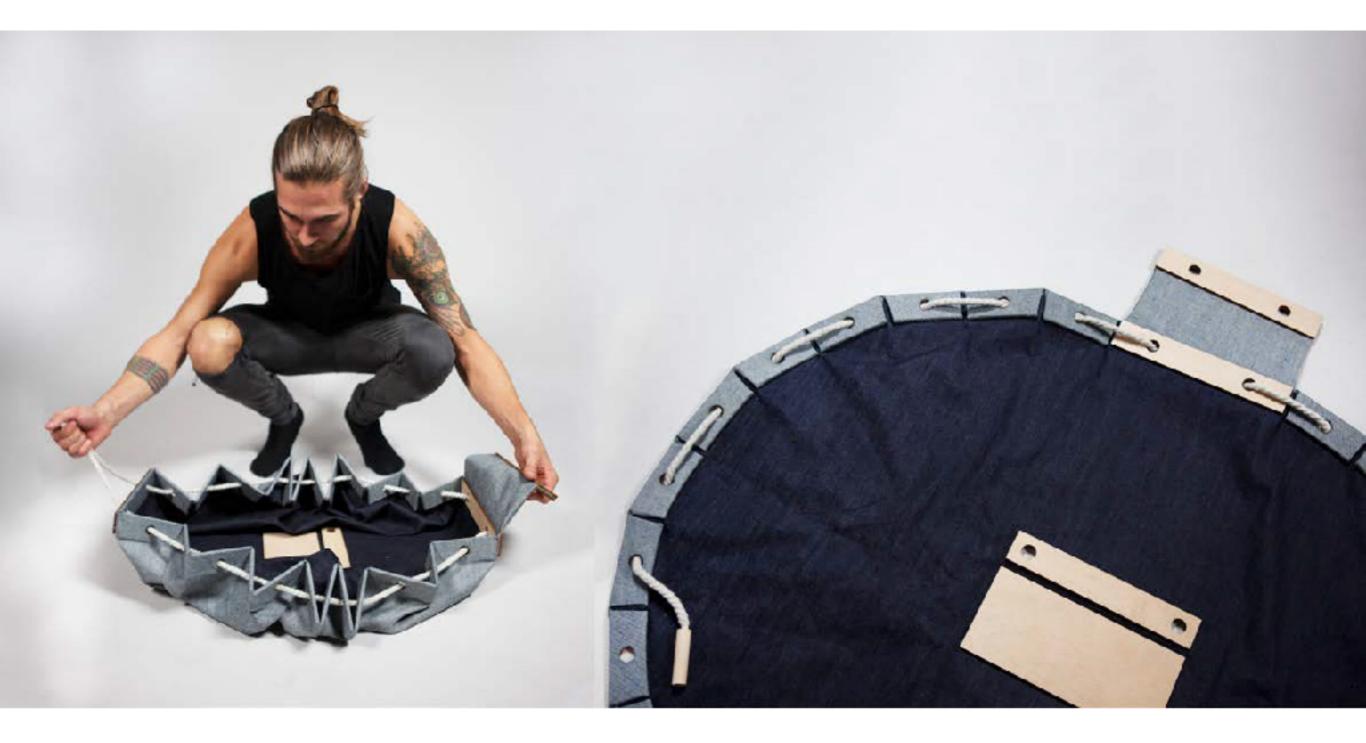
## **POST-COUTURE**



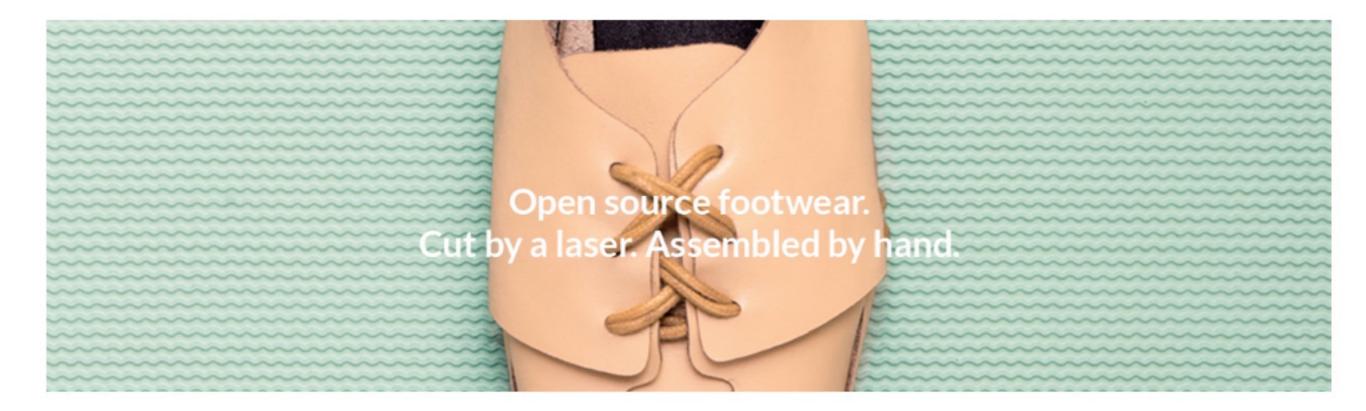


post-couture coat digital design file € 5 post-couture croptop digital design file € 5

## TASKA



## ANOTHERSHOE









Assemble it Yourself

Wear it Yourself

Download it Yourself

Make it Yourself

## **FROM IDEA TO PRODUCT**

Share the code

(non commercial use)

Sell the kit

(involve local hubs)

Sell out-of-thebox after a crowdfunding campaign

Sell the collection edition

BUILD AN AUDIENCE REACH EARLY ADOPTERS FULLFIL CONSUMERS

**CREATE EXCLUSIVITY** 

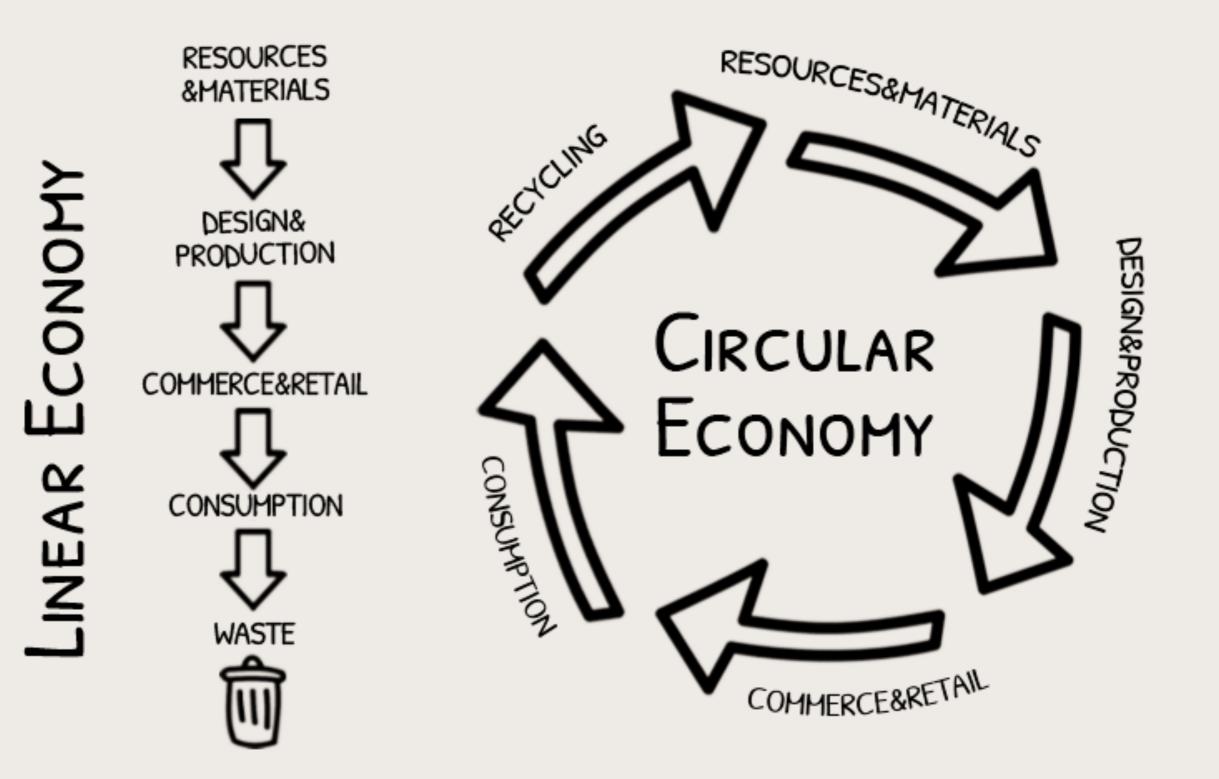
## FAST ///> SLOW



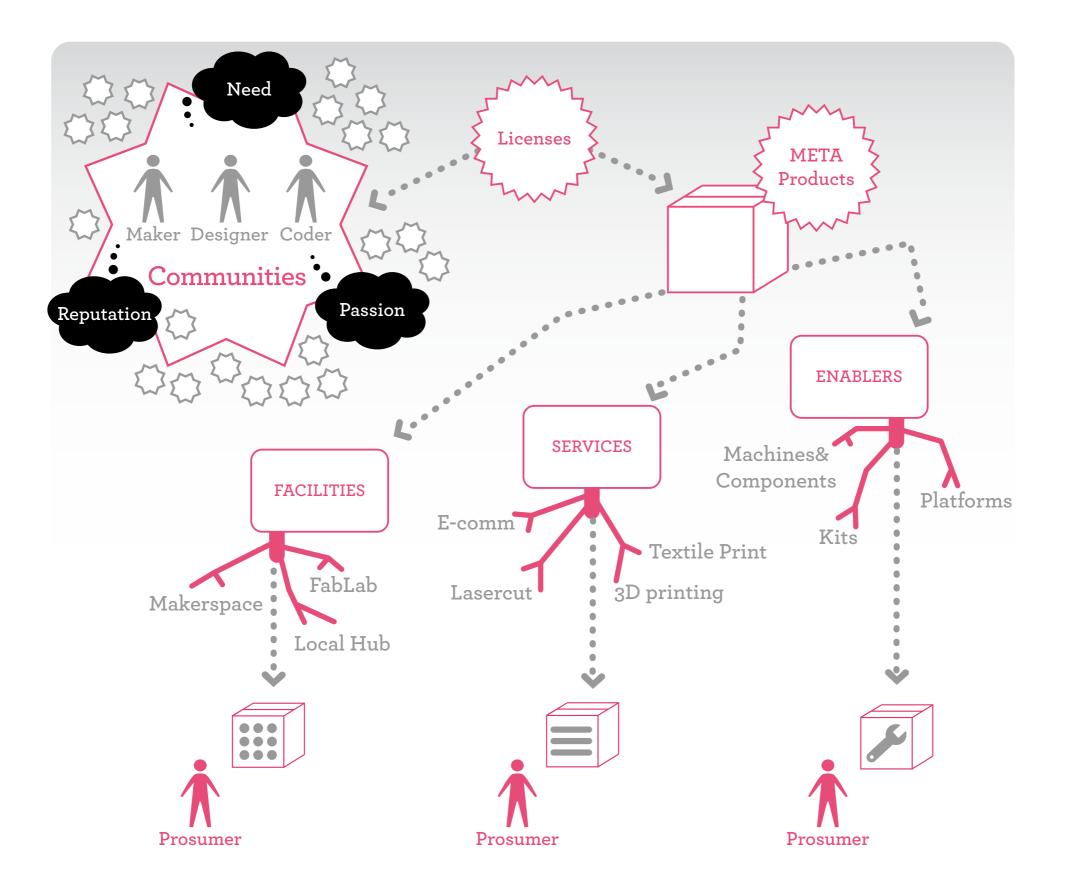
) }

Salados and a service and a

## **CIRCULAR ECONOMY**



## ECOSYSTEM



#### **EXPERIMENTING ALTERNATIVE FASHION MODELS**

# "AGILE FASHION"

#### YESTERDAY

#### TOMORROW

- Product/Closed
- Collection of disposable products
- Series Production
- Shops
- Venture Capital

- Platform/Open
- Catalogue of a few evolving products
- On-demand Production
- Direct selling (online/ offline)
- Crowdfunding

