

Taska





Ingi Freyr Guðjónsson



July 2016 - FATEX - Association of apparel and textile secondary school teachers







Linda Wanders

My name is Linda, from the Netherlands, 31 years old, and a background in graphic design and teaching.

Three years ago I moved with my boyfriend to Iceland. Here, he worked on starting up the FabLab in Reykjavik, while I attended the Fab Academy.

Since then I have been involved with the FabLab, where I now work as Lab manager.

And this summer my family life took a step forward by adding a baby boy into the mix.:)

- Linkedin www.linkedin.com/in/lindawanders1/
- Fab Academy : http://fabacademy.org/archives/2014/students/wanders.linda/index.html



Weekly Assignments



Week 1

State of the art, Project Management and Documentation



Week 2

Digital Bodies



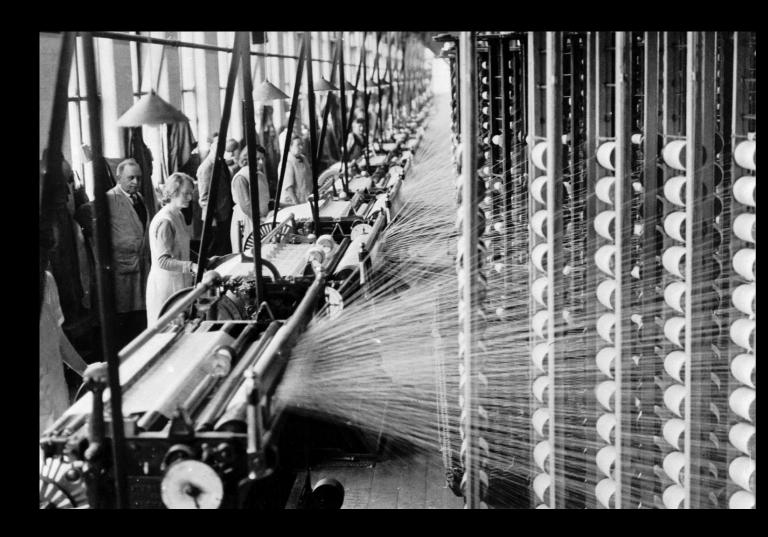
Week 3

Circular Open Source Fashion





The 1st Industrial Revolution 1764- cotton mill



80 billion garments produced annually

Venus of the Rags Michelangelo Pistoletto, 1967, 1974 | Tate



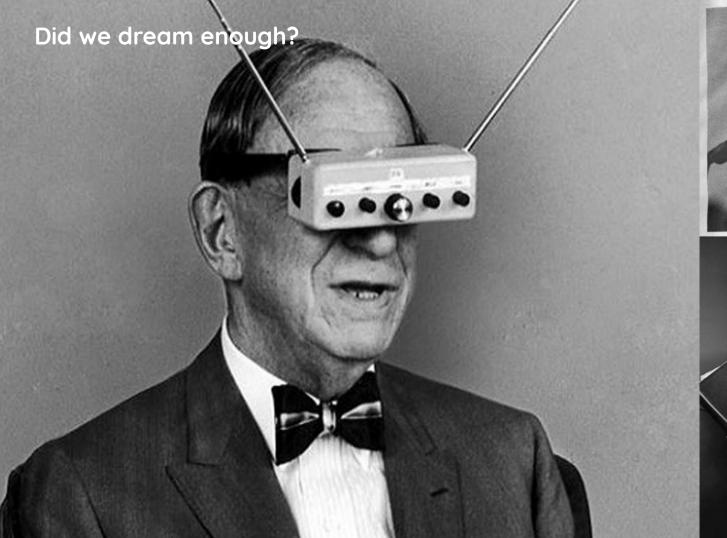
Has anything changed?

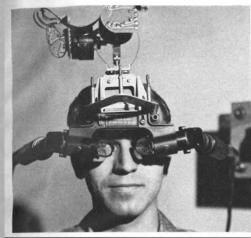


1905: Yarn spinning in the U.S. (Lewis W. Hine/George Eastman House/Getty Images)

2013: Yarn spinning in Indonesia (David Gilkey/NPR)

Source: Planet Money Makes A T-Shirt



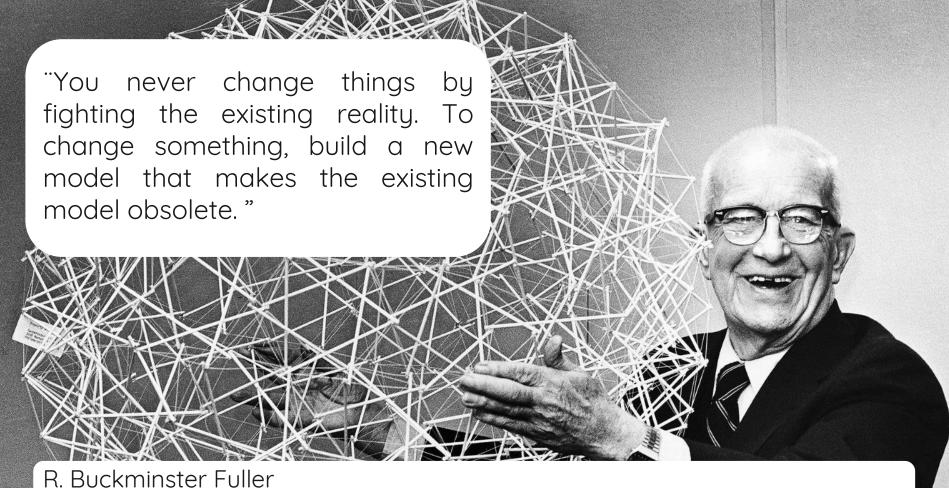






Iris-Van-Herpen-3D-Printed





R. Buckminster Fuller

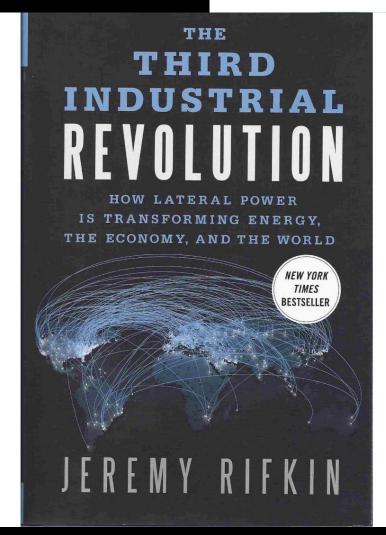
American architect, systems theorist, author, designer, and inventor, creator of the geodesic dome.



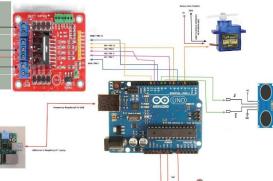
THE NEW INDUSTRIAL REVOLUTION

CHRIS ANDERSON

Author of the bestseller The Long Tail





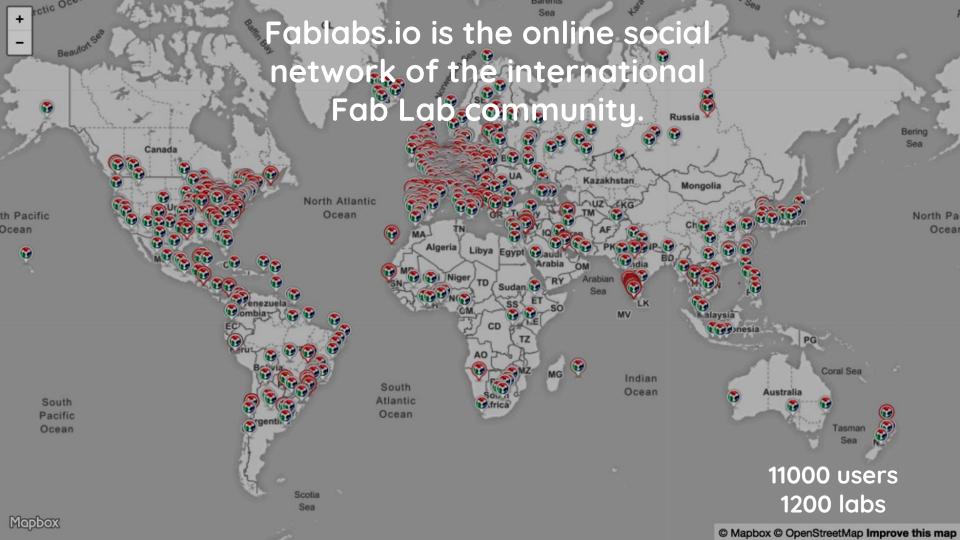




FAB LAB NETWORK How to make

How to make (almost) anything











Welcome to Fabricademy Open source circular fashion catalogue

Browse, share your desings and help grow this library!



















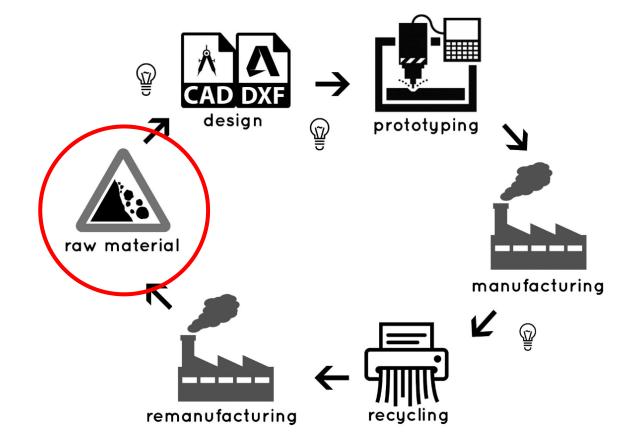


Browse all designs





Students work in Costa Rica, Veritas Moda for the international course of technology by FabTextiles



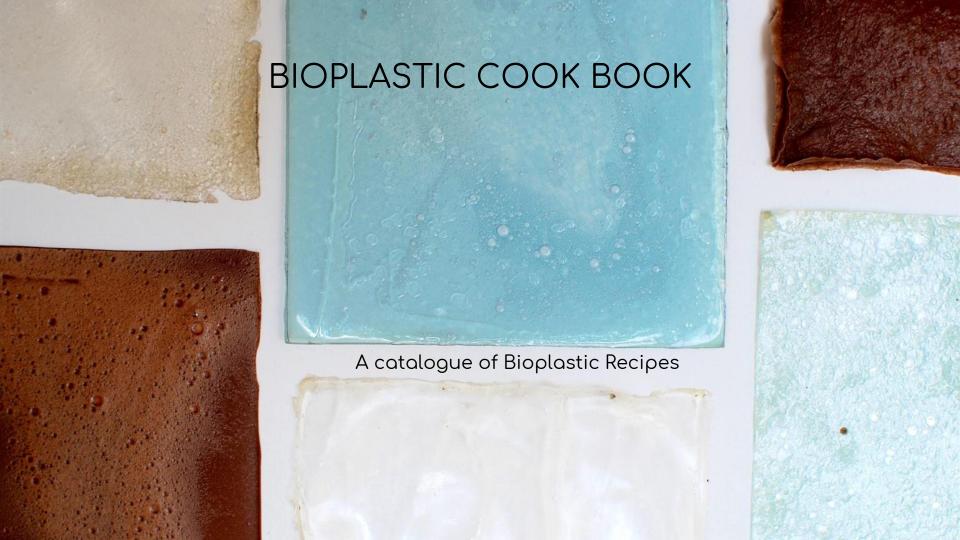


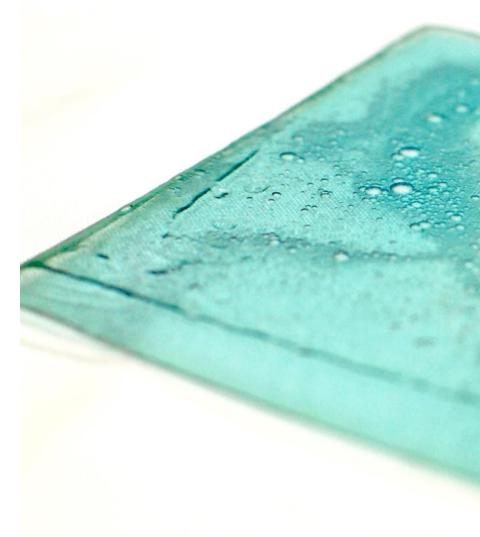












Gelatine+Spirulina Animal Based Bioplastic with Natural Pigment

Ingredients

Recipe	Brittle	>	> Flexible	
Glycerine (g)	0.0	1.8	3.6	7.2
Water (ml)	50	50	50	50
Gelatine (g)	12	12	12	12
Spirulina (ml)	10	10	10	10
Sugar (g)	4	4	4	4

Recipe

- 1. Dissolve sugar in 50ml of water on the burner. Once dissolved, remove from heat to cool.
- 2. Filter water through spirulina powder, until 10 ml of blue spirulina water has been collected. Then combine this with the cooled sugar solution.
- 4. Add glycerine, gelatine, and 30ml of the sugar/spirulina solution in a pot and cook on a medium heat. After 2 minutes add the remaining 30ml of solution and stir. Quickly pour into a frame on a smooth non stick surface. 5. Let the bioplastic dry according to

the previously stated steps.

Spirulina is a type of cyanobacteria (algae). In its dried form it is a green powder. The colour comes from green chlorophyll, is insoluble which in water, and blue which phycocyanin, is soluble in water and therefore can be by filtration. isolated phycocyanin The protein denatures when heated but adding sugar helps to stabilize the colour. Even so, bioplastic mixtures will fade from blue to green to yellow within one minute. The best colour will be achieved if the blue solution is added within 15 seconds of casting the bioplastic.



Bioplastic Wunderpants









Grow Fabric in Your Kitchen

The microbes used to brew the drink kombucha can also produce a strong, leathery cloth—no cow required. Use Suzanne Lee's recipe to make your own.

Materials:







200 milliliters 200 grams of granulated sugar

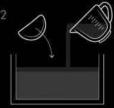


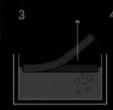
1 live kombucha culture



2 green tea bags









Directions:

- 1. Brew the liquid: Boil 2 liters of water, and steep the tea for 15 minutes. Remove the tea bags and add the sugar, stirring until it's dissolved.
- 2. Prep the culture: Make sure the liquid is cooler than 86°F, and then pour it into your container. Add the cider vinegar and the kombucha culture. Cover the container with a cloth. it with cold, soapy water.
- 3. Harvest the mat: While it grows, the mixture should be kept at room temperature. First, the culture will sink to the bottom. You'll know fer-
- mentation has begun when bubbles and a transparent skin start to form at the surface. Over time, the culture will rise to the surface and accumulate in a thick layer. Once the mat reaches 2 centimeters in thickness (around three to four weeks), take it out of the container and gently wash
- 4. Dry the material out: Spread the sheet flat on a wooden surface. When it no longer feels wet, you can cut and sew it like any other fabric.

NOTE: This recipe will produce a piece of microbial leather as large as 7 x 6 inches, and it will take the shape of the container you put it in. To grow a larger or smaller sheet, adjust the proportions accordingly.







Textile Bacteria Dyeing









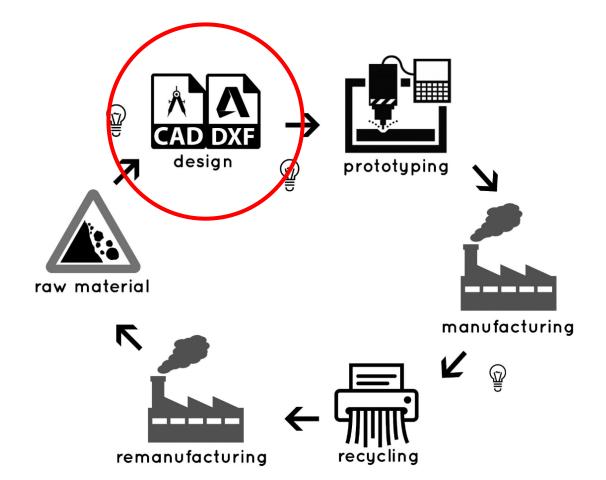
Symbiosis between nature & human Working with living organisms







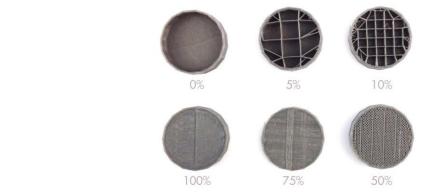


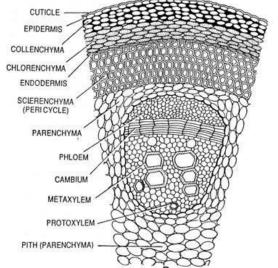


INFILL PERCENTAGE

The variable that defines the density of the internal support structure of FFF printed objects Rule-of-thumb: the higher the percentage of infill, the denser the object

Computing material performance





-EPIDERMIS

-COLLENCHYMA

CHLORENCHYMA

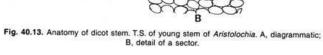
— SCLERENCHYMA

— PARENCHYMA

— PHLOEM

CAMBIUM

VASCULAR BUNDLE







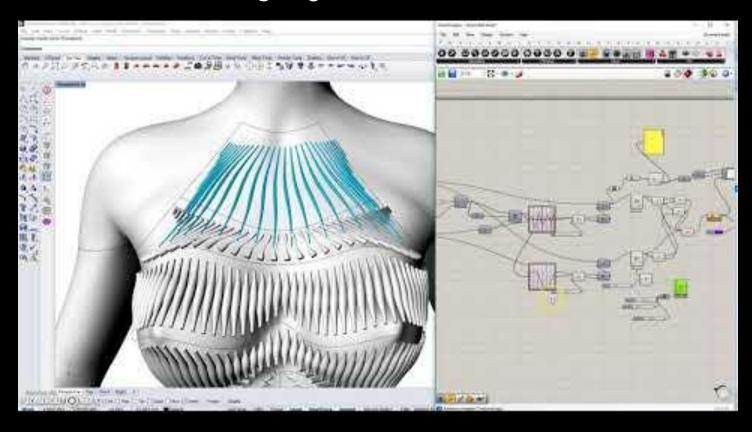


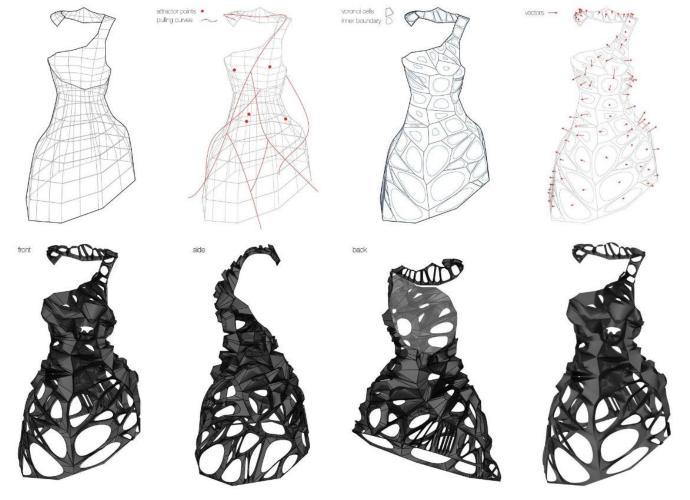
15%

25%

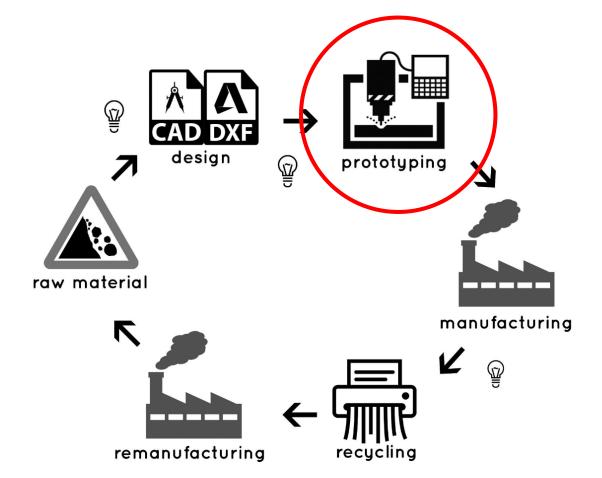


Design Systems Not Products





Parametric modeling - Rhinoceros, Grasshopper, Computational fashion, Fabtextiles in collaboration with Rodrigo Aguirre









Fabricademy BCN 2017, students work

3D PRINTING ON FABRICS, AS FABRICS, FOR FABRICS







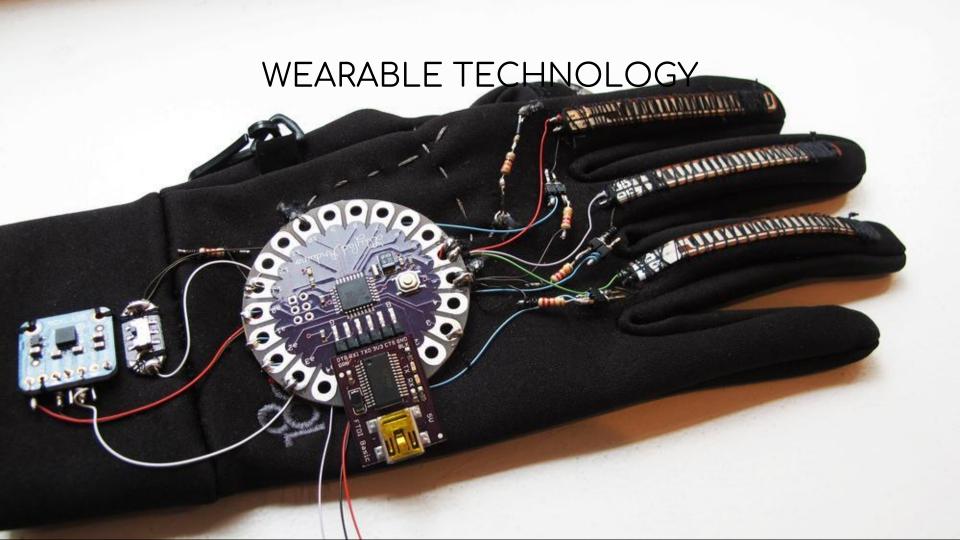




Blending traditional moulding techniques with digital fabrication

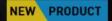
Machinery : CNC milling machine – Vacuum forming - Sewing machine for leather

3D Modeling with: Rhinoceros – Grasshopper





Wearable Technology





THE FIRST EVER VR BODY-CAM

Inmerse yourself fully into the sports action with content from the first ever virtual reality Body-Cam which records the action in 360° with two lenses on-board (front and back). Now, the best and most epic sports Point-of-View content can be experienced in Virtual Reality.

2 cameras - Chest & back 185° Field of fivision (FOV) 165min de autonomy



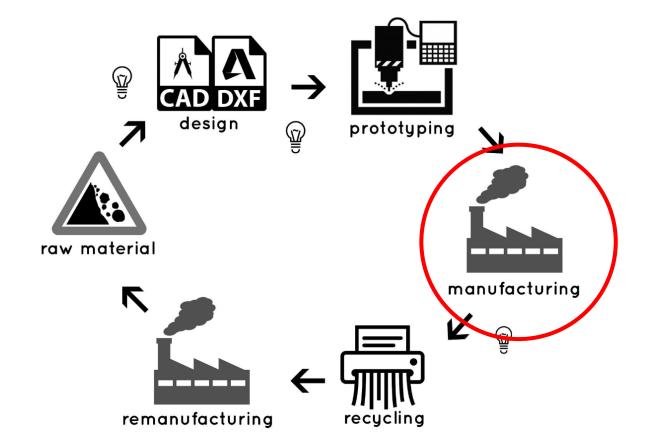


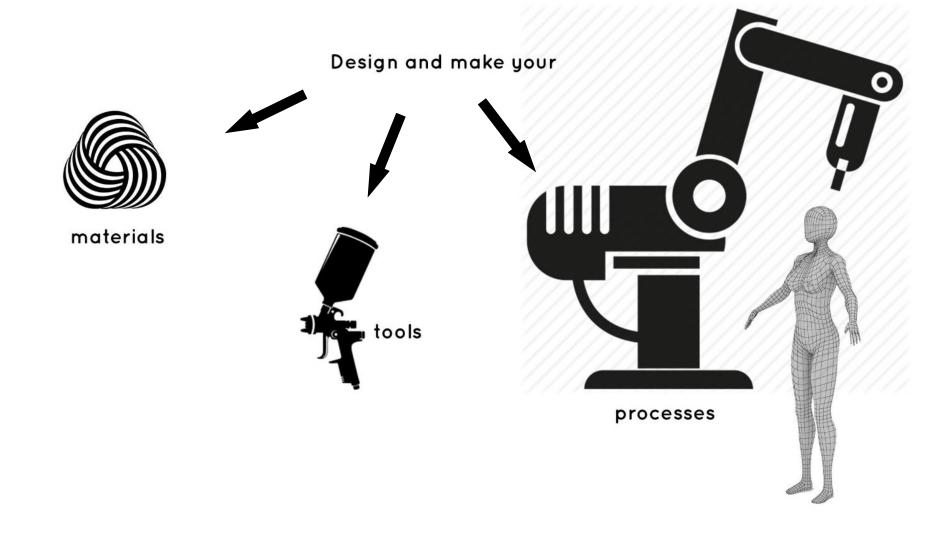






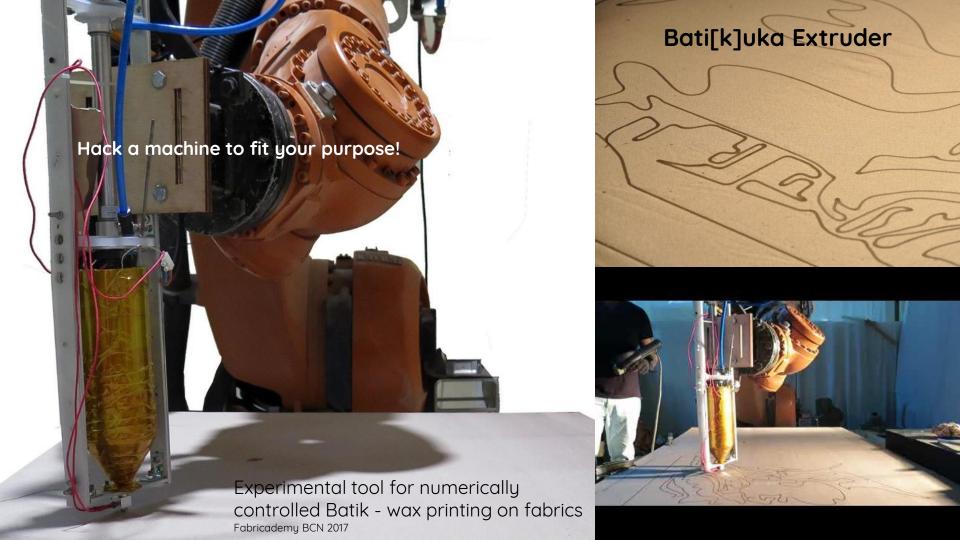


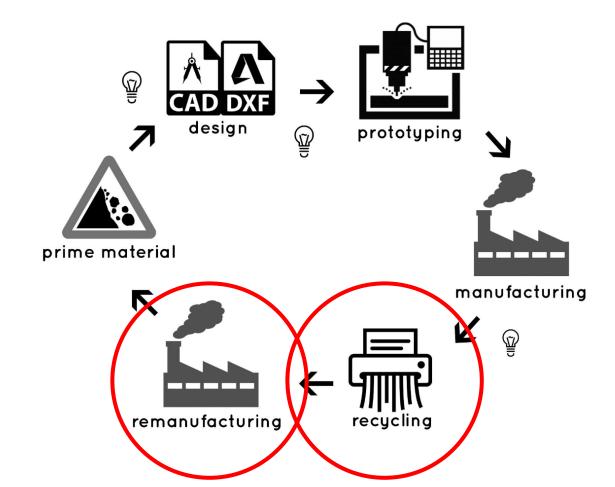






















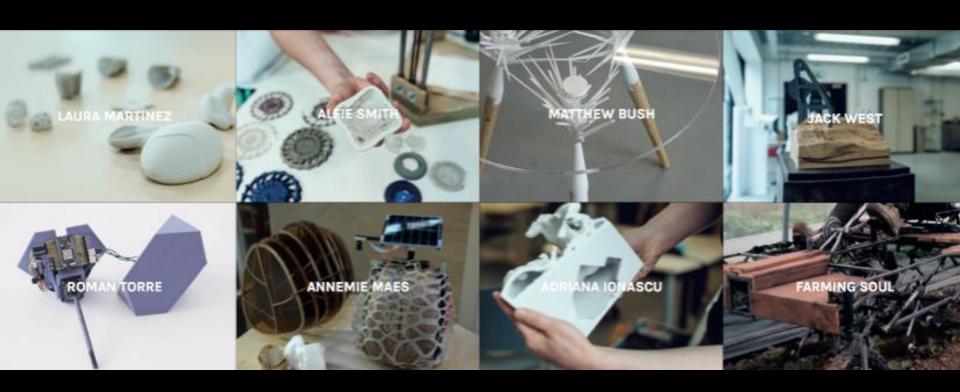








Digital Fabrication meets Crafts





Batuque

Artist : Ricardo Nascimento

Mentorship: FabTextiles

For: Made@eu





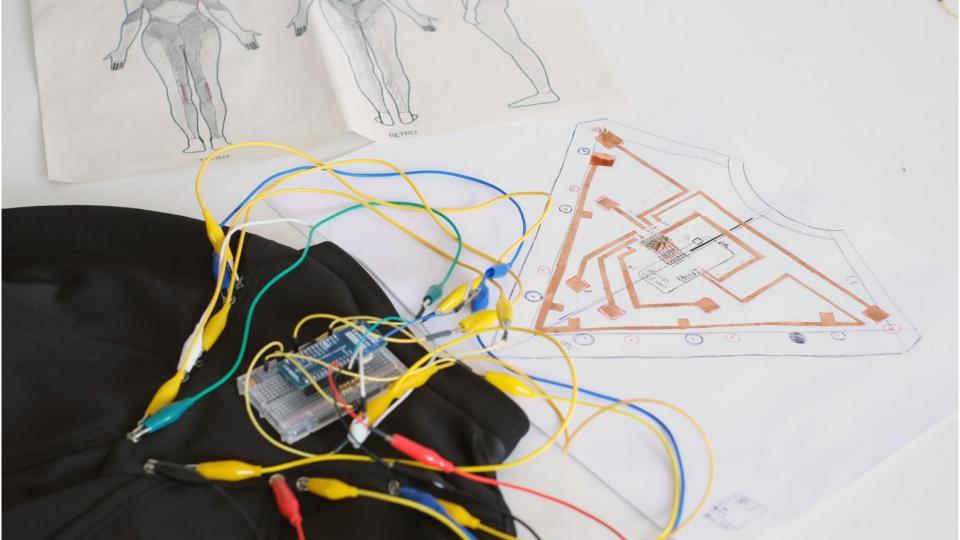
Elastica

Artist: Cristian Rizzuti Mentorship : FabTextiles

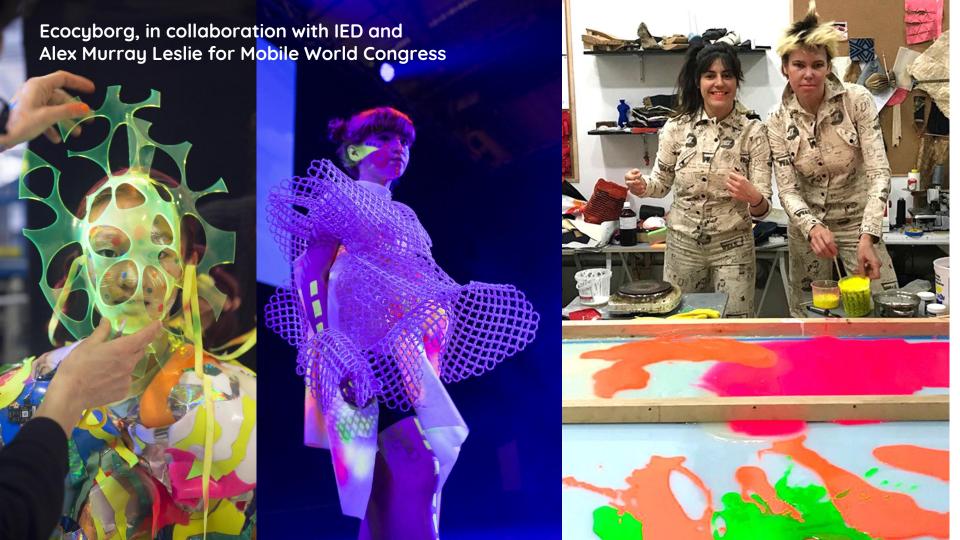
For : Made@eu















FAB11 Digital Fashion and Wearables Exhibition, Boston, USA,2105









FAB14 Digital Fashion and Wearables Exhibition FAB CITY Paris, 2018





Textile & Clothing Business Labs

▲Login Imprint



T C B L ∆ ⊙ % Lm

bs ▼ Enterprises ▼

es ▼ Co

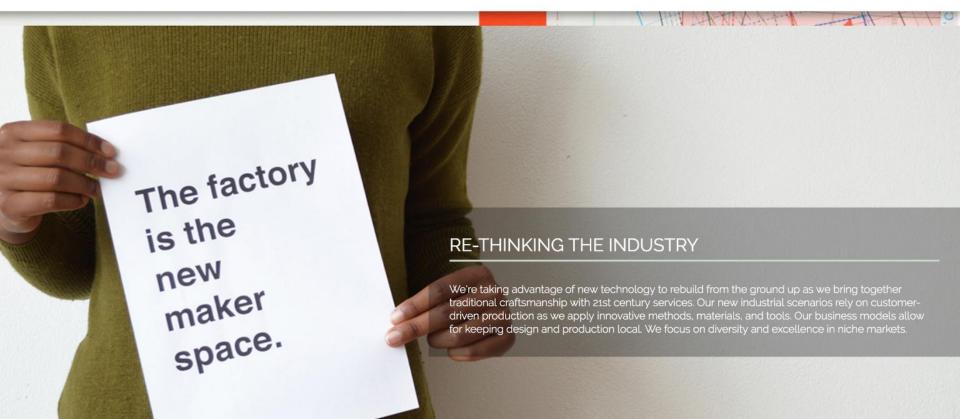
Community -

Events

Resources ▼

#TCBL 2017 ▼

About TCBL -



Business Pilots

Natural Fibres



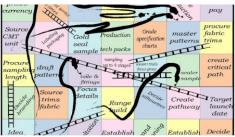
The Natural Fibres business pilot investigates ways in which TCBL can promote sustainable and eco-friendly choices in textile and clothing value chain by concentrating on the use of natural materials.

Digital Heritage



Preserving the manufacturing memory of the area and of individual companies contributes to the preservation and transmission of 'know-how' and the enormous wealth of tacit knowledge of a T&C district.

Short Runs



Short run production can allow for local sourcing closer to market needs, but also presents a number of challenges that can be addressed through TCBL.

Eco-Friendly Production



The aim of this Business Case is to create an ecosystem covering the entire supply chain: from the fibre down to the final customer.

BioShades



The textile industry is one of the most polluting in the world; we are trying to identify the environmental costs of dyeing and are researching for less harmful alternatives.

Independents



Empowering designer / producers Perhaps they consider it a temporary activity, waiting to be absorbed by a "Big brand"; perhaps they just escaped from a "Big brand". Maybe some were simply homesick and prefer a familiar clientele in the same town where they were born. The...



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

3rd year: SEPTEMBER 25, 2019















AND H

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 new sustainable biomaterials to the upcoming wearable market.

CLASSES

13 WEEKS of intensive learning



State of the Art WEEK 1



Bio Fabricating Dyes & fabrics WEEK 4



Textile as ScaffoldWEEK 7



Implications and Applications WFFK 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

FACULTY



Anastasia
Pistofidou
FABTEXTILES, IAAC
FAB LAB BARCELONA



Raspanti
TEXTILELAB AMSTERDAM
WAAG SOCIETY

Cecilia



Zoe Romano WE MAKE, MILAN



Katia Vega SOLUCIONES RACIONALES



Oscar Tomico ELISAVA, BARCELONA



Aldo Sollazzo NOUMENA, RESHAPE, IAAC BARCELONA



Liza Stark



Dr. Lily Chambers RHINE-WAAL UNIVERSITY



Adrianna Cabrera FabLab Kamp Lintfort



& Mar Canet

MAR CANET & VARVARA
GULJAJEVA ARTIST DUO

Varvara



Fiore Basile



JOIN us in this journey today anywhere in the world. textile-academy.org/join









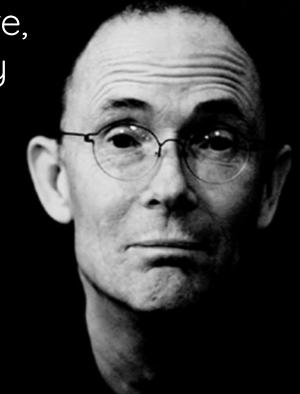


Local & Global





"The future is here, it's just not widely distributed yet."



William Gibson (1948)
Canadian science fiction author introduced the term "cyberspace"

