



L'UNITÉ MOBILE
D'EXPÉRIMENTATION
COMPOSITE

Mobilité

Expérimentation

Composite

Documentation

Mobilitéé

Immobilité



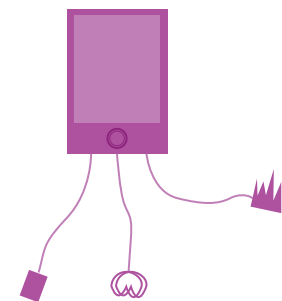
Micro-mobilitéé

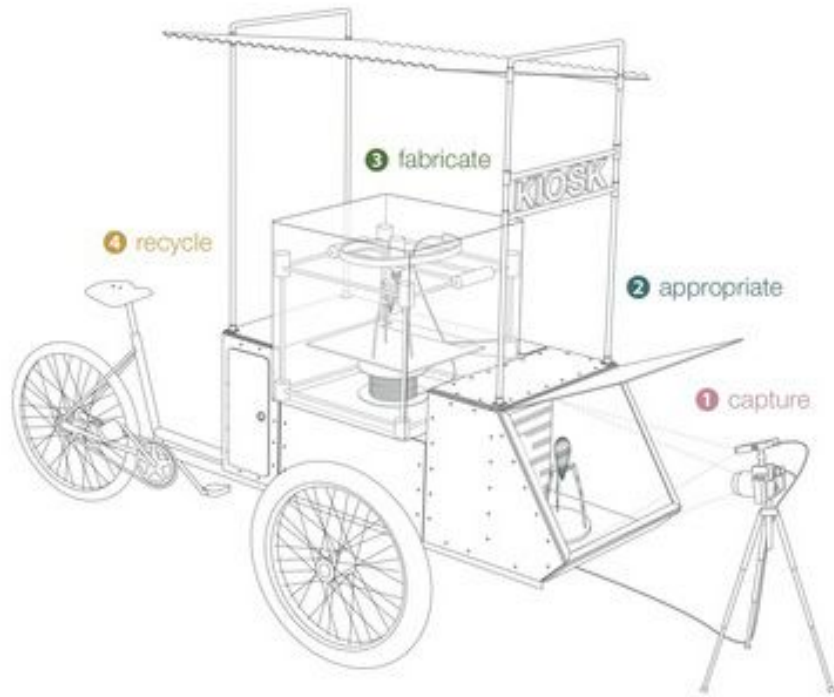


Mobilitéé

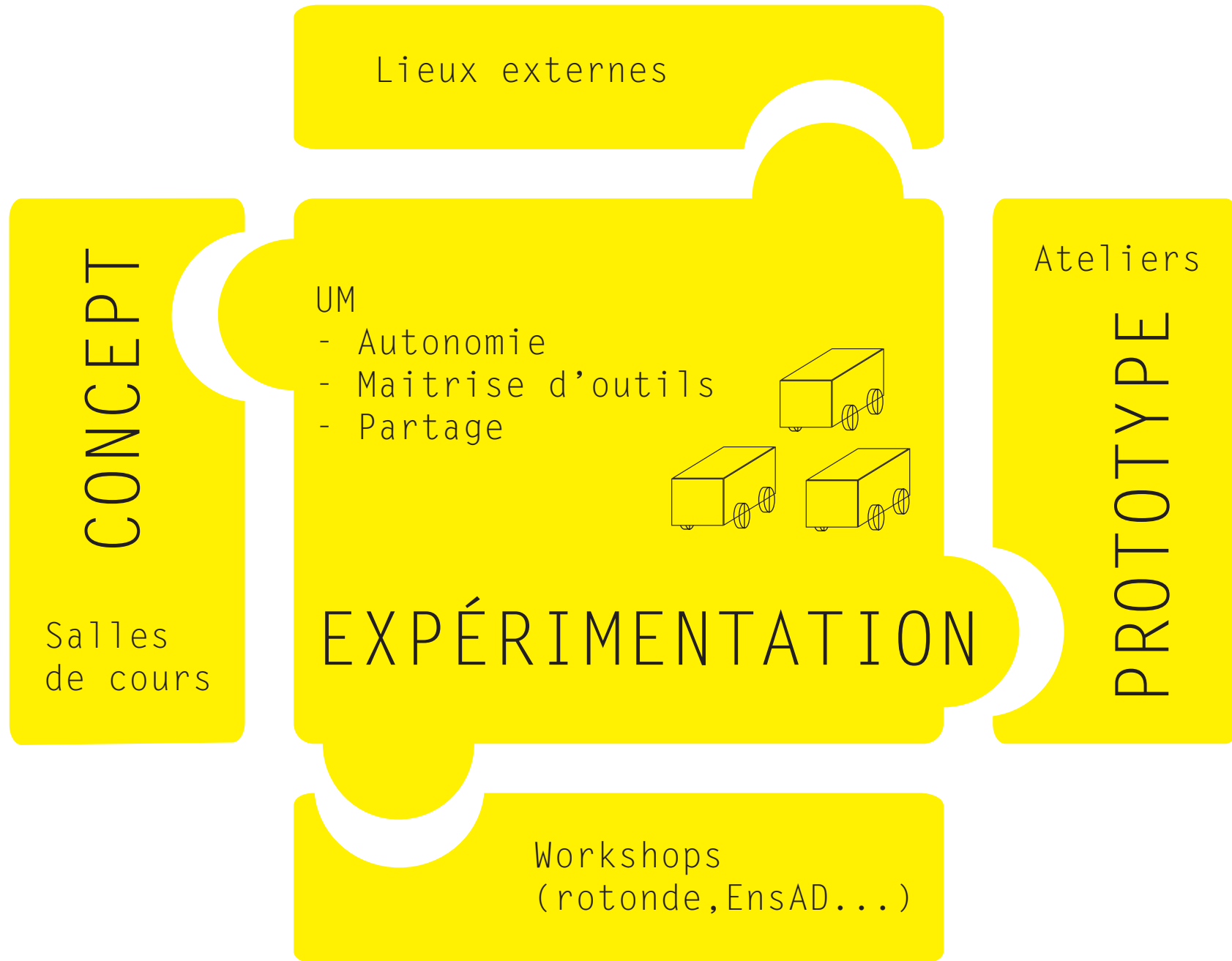


Nano-mobilitéé

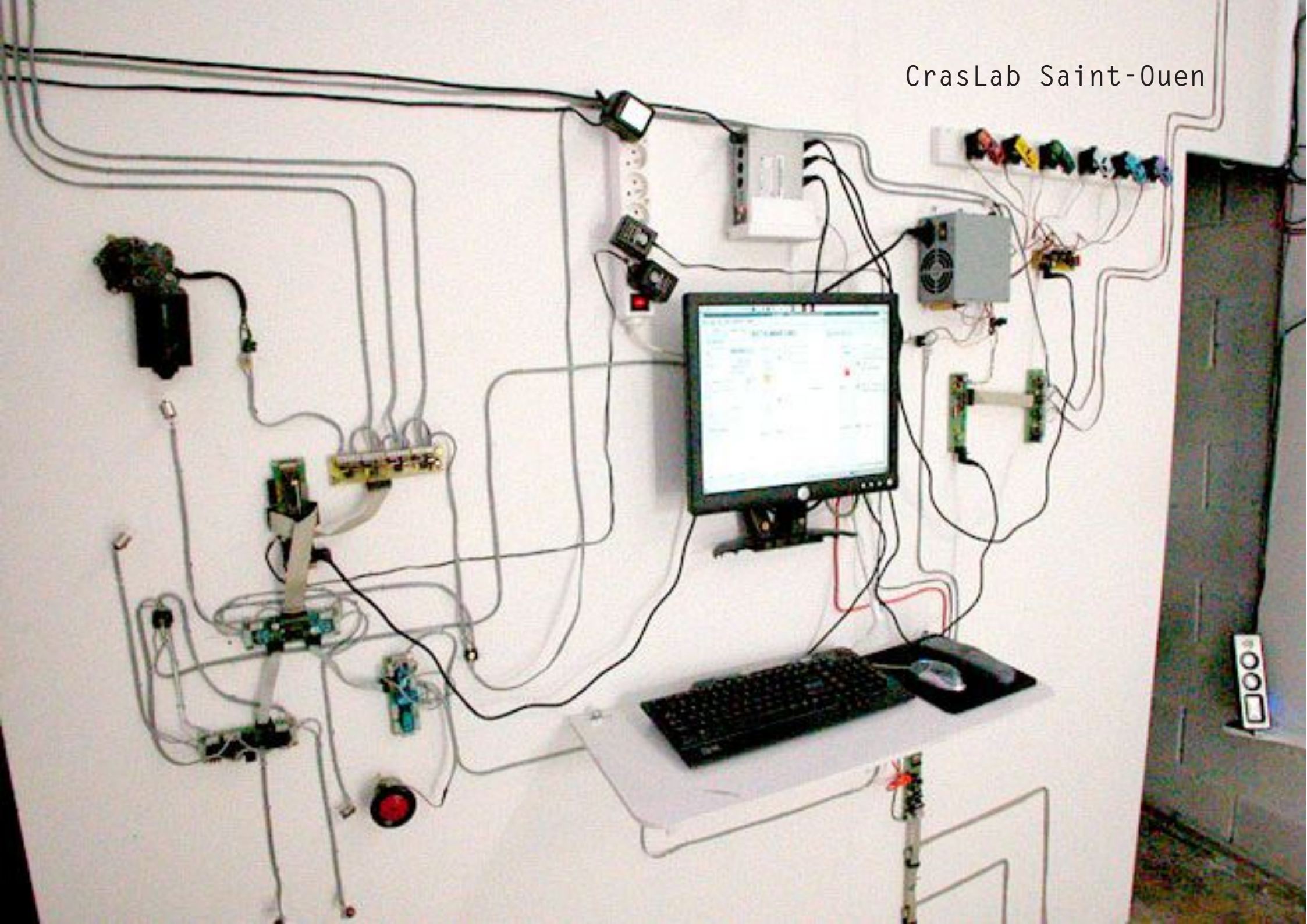




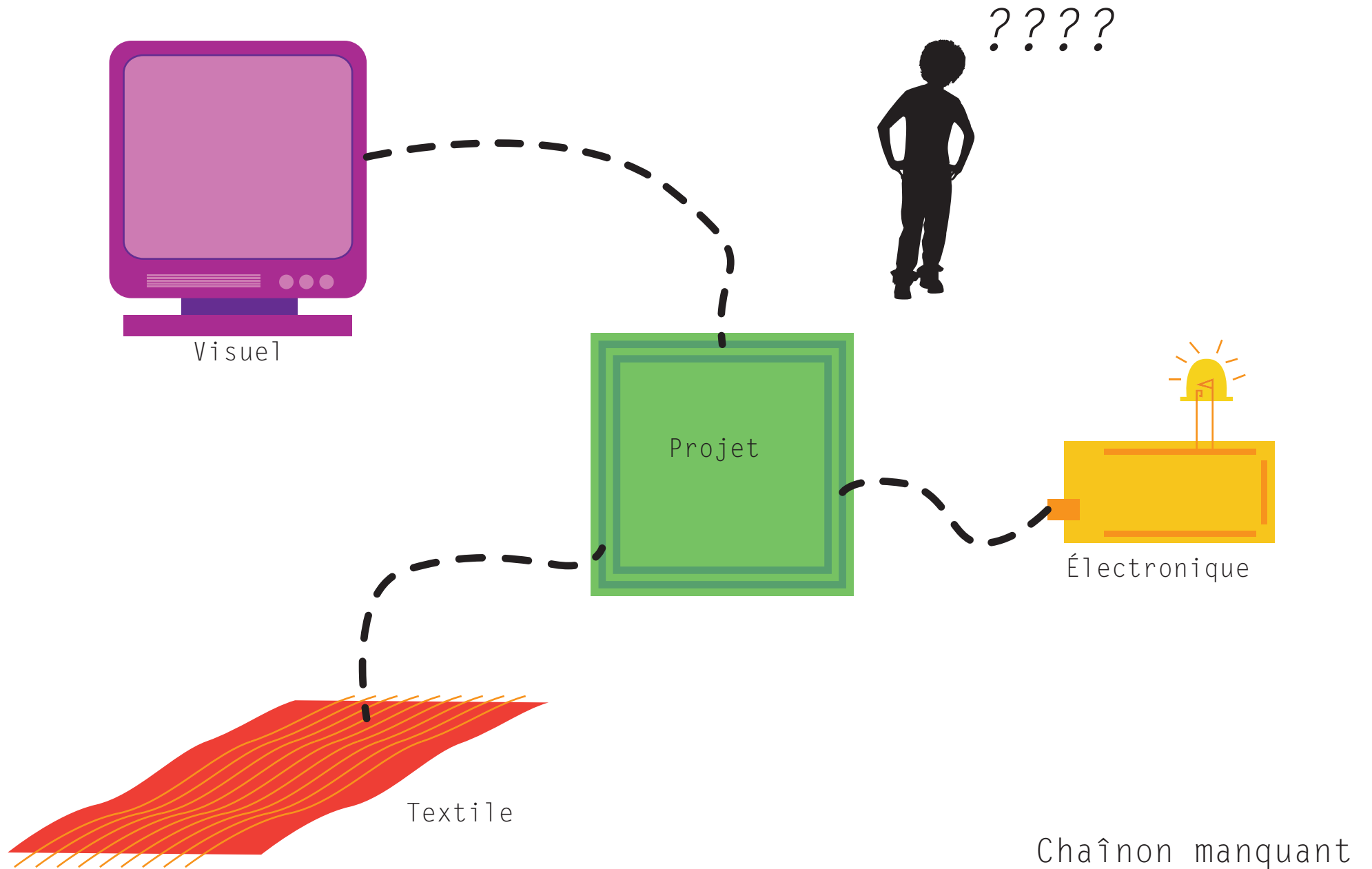
Expérimentation

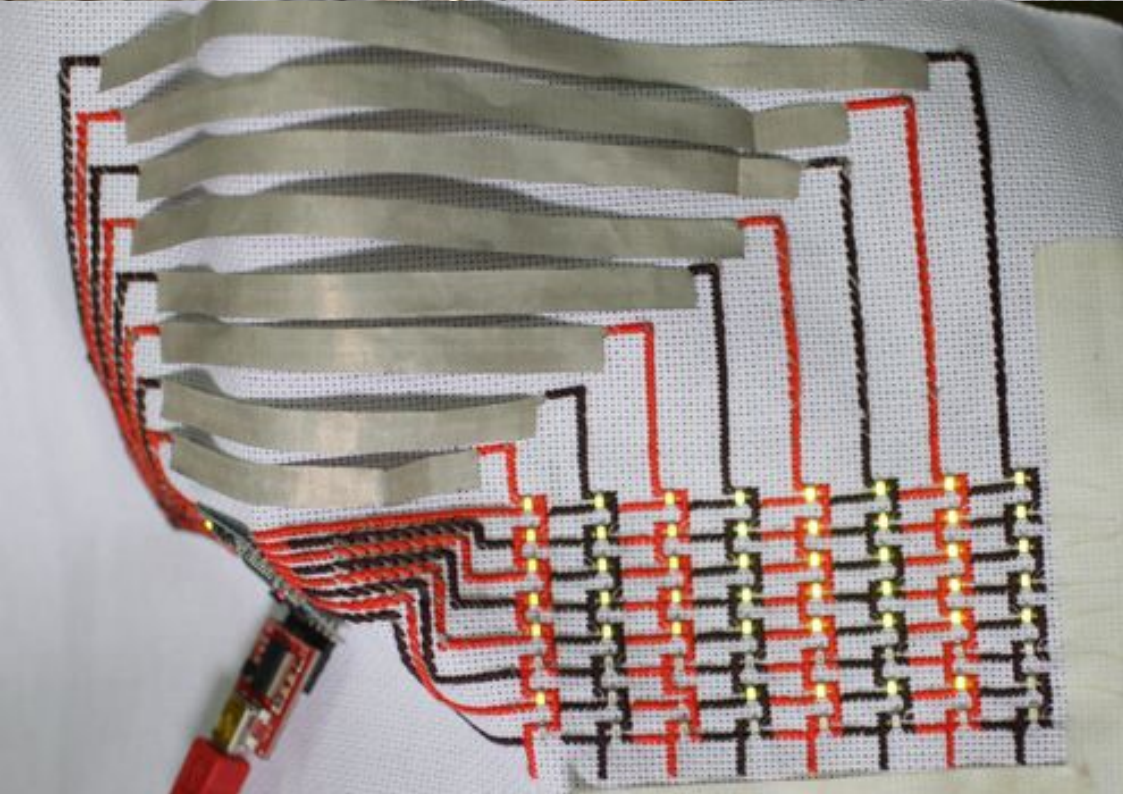


CrasLab Saint-Ouen



Composite





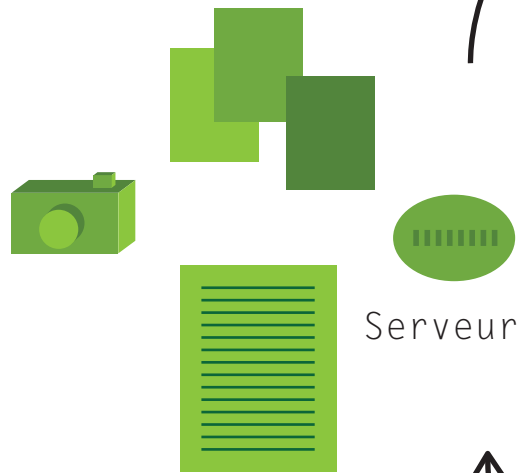
Expérimentations Wei Chieh Shih

Documentation

Comment faire son projet?

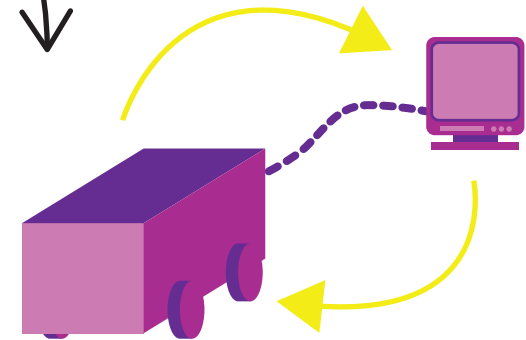


Documentation du projet



Serveur

Réalisation du projet



Précédents projets documentés

(Tutoriels, photos, exemples, codes...)

A Kit-of-No-Parts

Recipes for Materially Diverse, Functionally Transparent and Expressive Electronics

Recipes

PARTS

Traces and Connections
Sensors
Actuators
Resistors
Capacitors
Transistors
Power

CRAFTS

Drawing and Painting
Electroplating
Gilding
Printing
Carving
Cutting and Engraving
Etching
Molding and Casting
Sculpting
Assemblage

Ingredients

Workshops

Here you will find Recipes that describe how to make a variety of electronics from craft materials through the Recipes by selecting relevant 'Crafts' or 'Parts' from the orange menu.

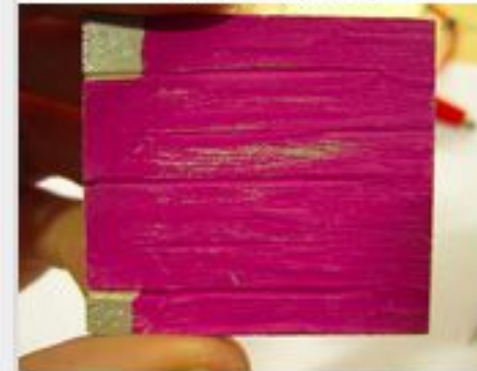
Assembled Coin-cell Holder



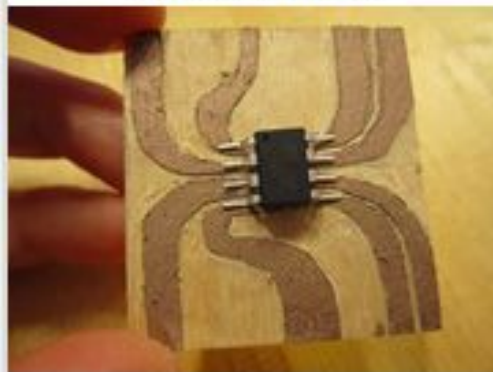
Calligraphed Traces



Carved Pixel



Carved Traces



Cast Pixels



Cast Speaker



<http://web.media.mit.edu/~plusea/>

MAS.863/4.140
How To Make (almost) Anything
Wednesdays 9:00-12:00 E14-633
2013

Application

Schedule:

- 09/04: introduction, computer-aided design
section: 9/9 (7:00P 9-255): design tools
- 09/11: project management, computer-controlled cutting
section: 9/16 (7:30P E14-525): distributed version control
- 09/18: electronics production
section: 9/19 (8:00P E14-493): electronic test equipment
- 09/25: 3D scanning and printing
section: 9/29 (5:00P N52-388): 4D printing
- 10/02: computer-controlled machining
section: 10/7 (6:00P 3-412): robotic arms
- 10/09: electronics design
section: 10/9 (4:30P E14-493): electronics simulation
- 10/16: molding and casting
section: 10/19 (1:00P E14-240): parametric design
- 10/23: embedded programming
section: 10/21 (5:00P E15-443): 32-bit platforms
- 10/30: composites
section: 11/4 (5:00P 3-402): thermoforming
- 11/06: input devices
section: 11/8 (4:00P E14-244): 3D electronics modeling
- 11/13: output devices
section: 11/14 (5:30P E14-166): sheet metal
- 11/20: networking and communications
section: 11/25 (5:00P E14-244): soft circuits

message box <https://vimeo.com/20412632>

- <http://www.nearfield.org/>
- <http://berglondon.com/>
- Immaterials: Light painting WiFi <https://vimeo.com/20412632>
- Chris voebken <http://www.woebken.net/>
- inFORM <http://www.youtube.com/watch?v=ouP9xNujkNo>
- <http://www.design-interactions.rca.ac.uk/>
- <http://www.dunneandraby.co.uk/content/home>
- <http://www.amazon.fr/Hertzian-Tales-Electronic-Aesthetic-Experience>

3. **électronique analogique / numérique**

- comment fonctionne les composants employés
- capteurs analogiques / numériques (<http://www.kobakant.at/DIY/>)
- basiques physiques de l'électricité: <http://www.tigoe.com/pcomp/>
 - arduino booklet (<http://www.arduino.cc/en/Booklet/homePage>)
 - MHD Magneto Hydro Dynamics (<http://www.evilmadscientist.com/>)
 - junk, circuit bending (<http://www.flickr.com/photos/jeanbaptiste/>)
 - solenoides (<http://www.flickr.com/photos/jeanbaptisteparis/261>)
 - IEXERCICE: faire une petite video (entre 30 et 45 sec) qui exp
- COURS
 - base de l'électricité http://fr.flossmanuals.net/arduino/ch008_les-bas
 - Loi d'Ohm http://fr.wikipedia.org/wiki/Loi_d'Ohm

4. **cartes (keyboard hack, interface hack, arduino, rPi, ...)**

<http://web.media.mit.edu/~labrune/talks/keyboardHacking.pdf>

- Keyboard Hack (midi , interface, 3D... créatifs!!!) - <http://www.flickr.com/>
- UKULELE Keyboard Remap <http://scripts.sil.org/cms/scripts/page.php>
- Yun, Raspberri Pi, classification des cartes, évolution d'un keyboard l

5. **input (use + build)**

<http://en.wikipedia.org/wiki/Input>

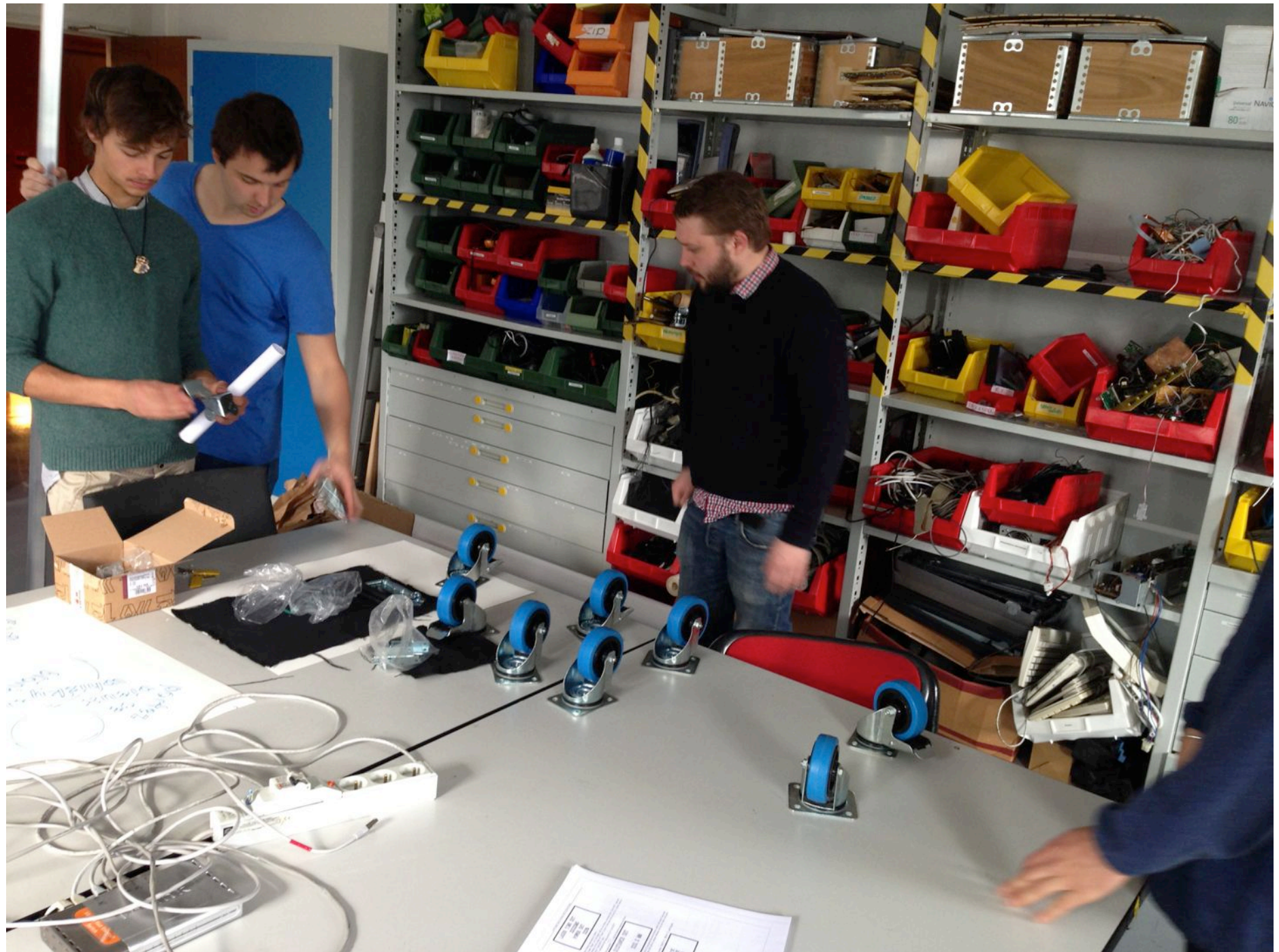
I/O

<http://creativemachines.cornell.edu/node/116> (film piezo récupérati

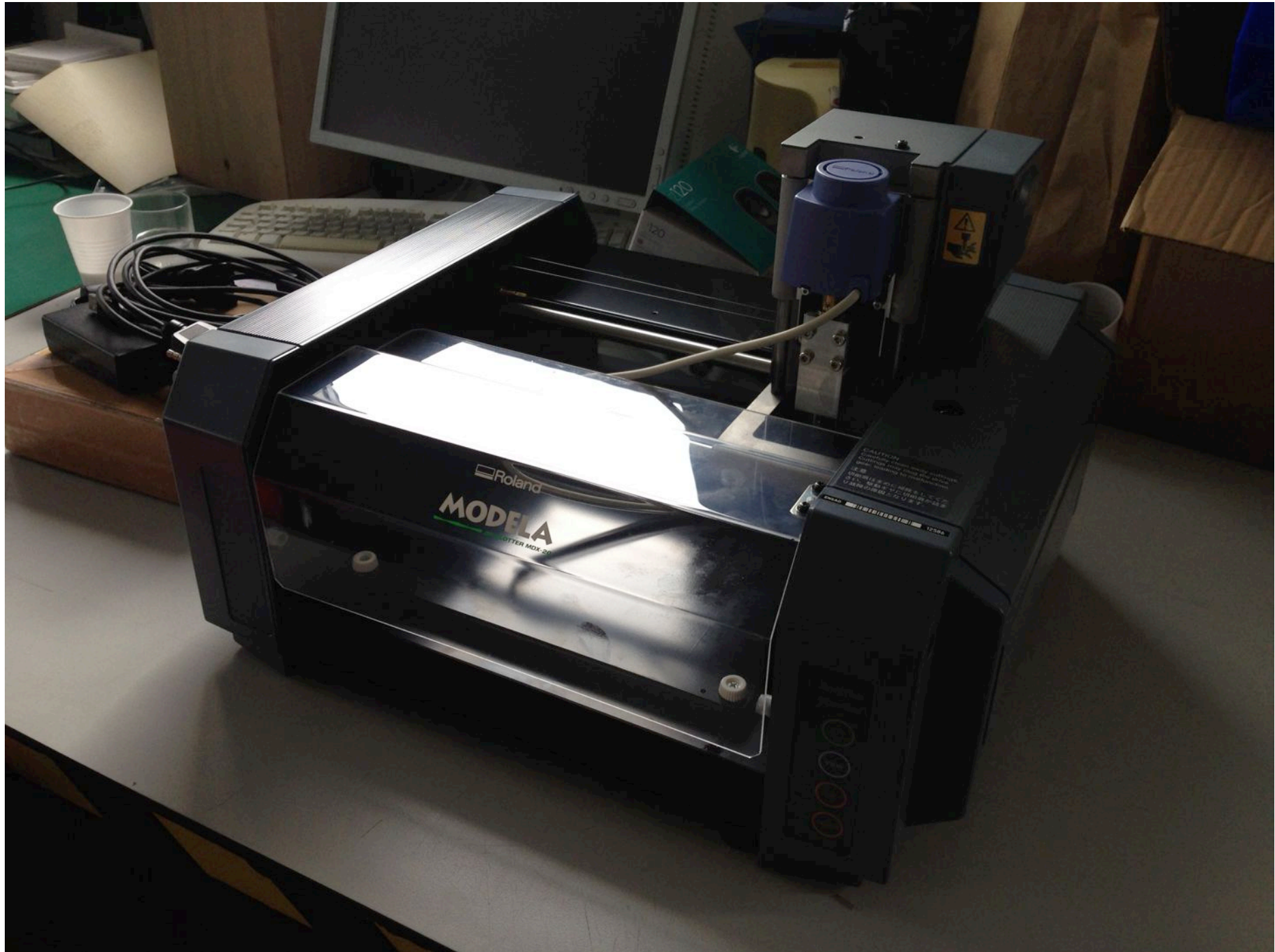
<http://fr.wikipedia.org/wiki/Pi%C3%A9zo%C3%A9lectricit%C3%A9>

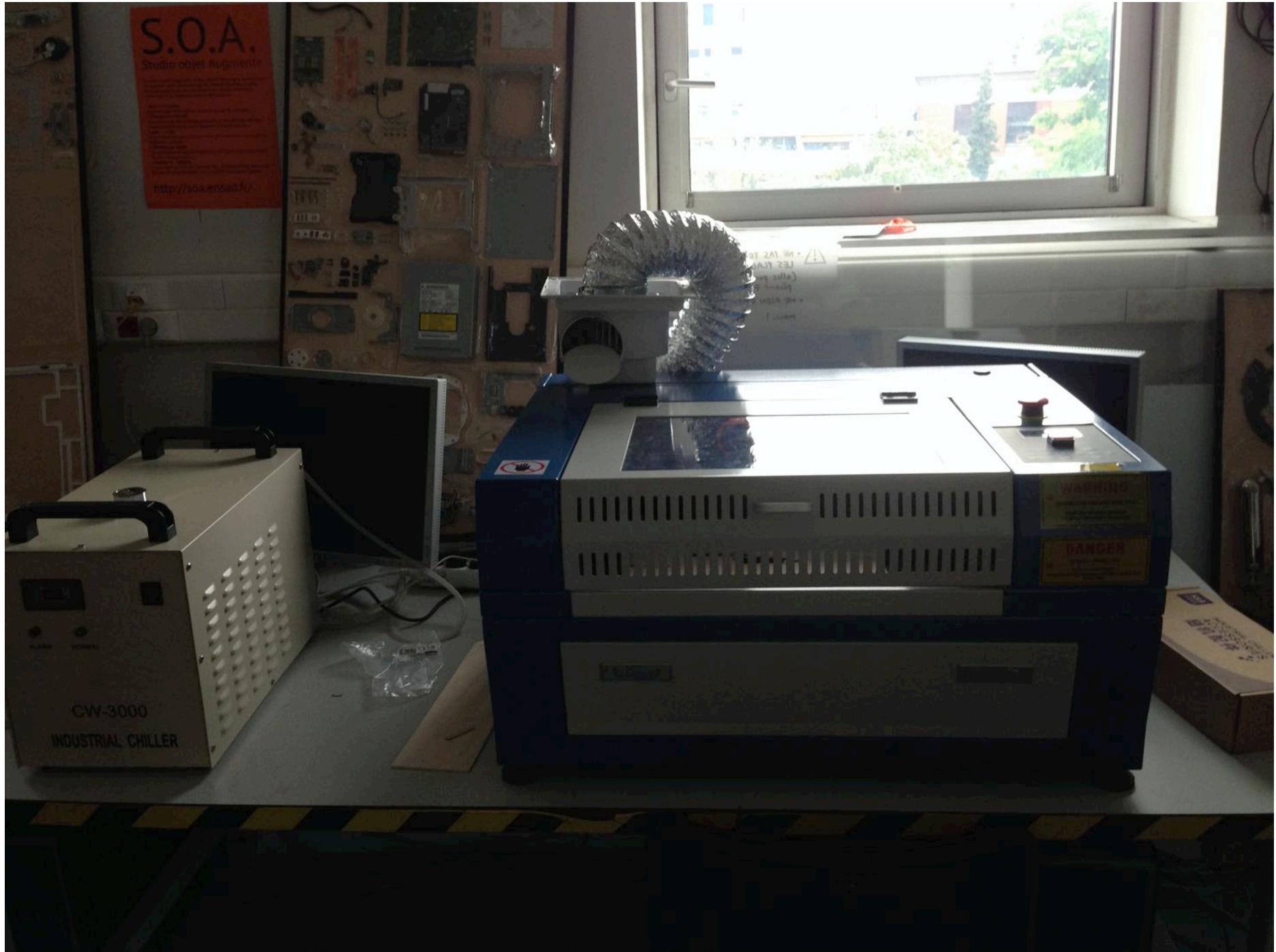


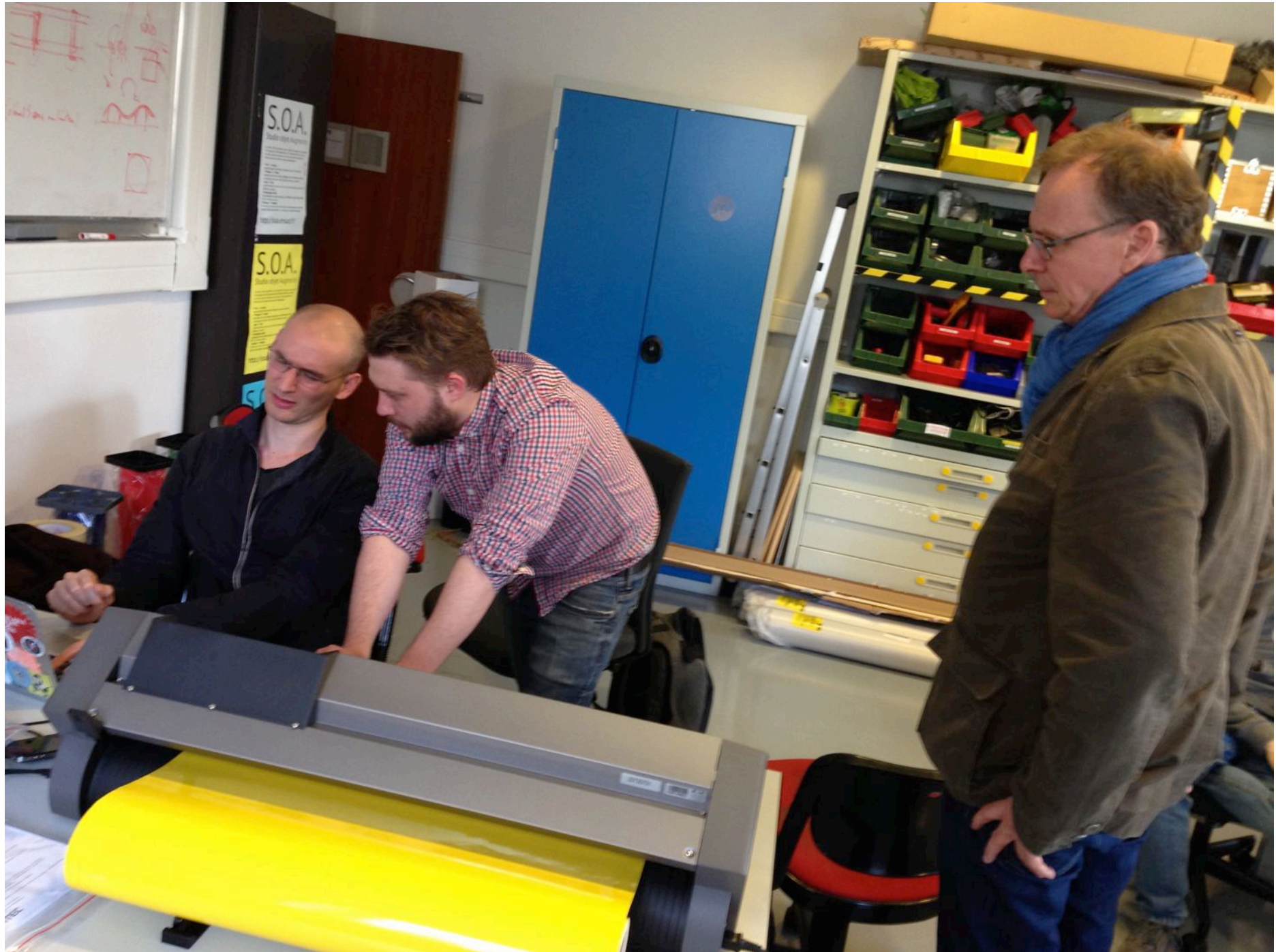


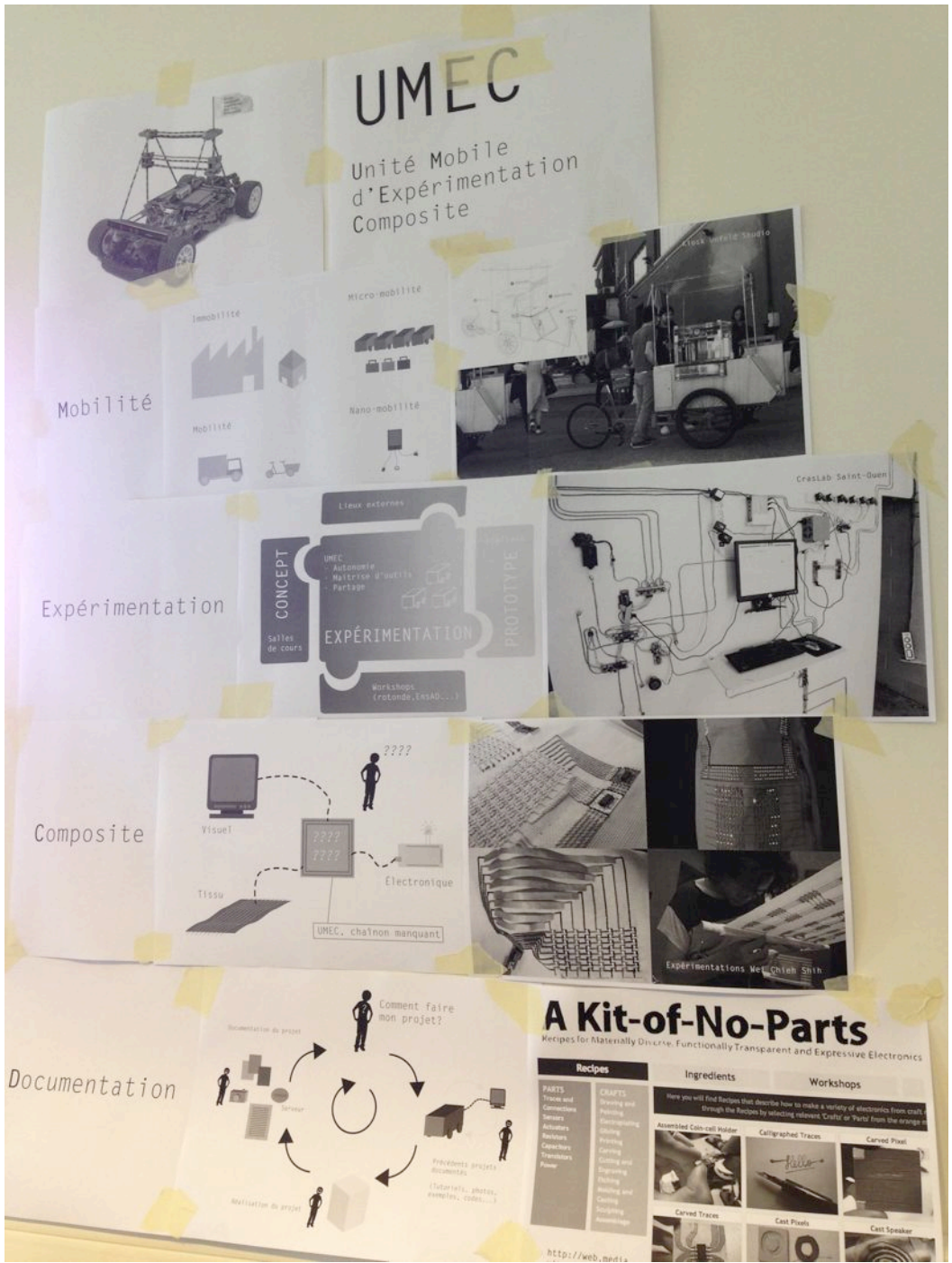












UMEC

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| Recipes | Ingredients | Workshops |
|--|---|---|
| PARTS Traces and Connections Sensors Actuators Motors Cables Transducers Power | Ingredients Here you will find Recipes that describe how to make a variety of electronics from craft through the Recipes by selecting relevant 'Crafts' or 'Parts' from the orange... | Workshops Assembled Coin-cell Holder Calligraphed Traces Carved Pixel Carved Traces Cast Pixels Cast Speaker |

<http://web.media>

