

INTERACTION DESIGN BEYOND THE SCREEN



INDUSTRIEEL
ONTWERPEN

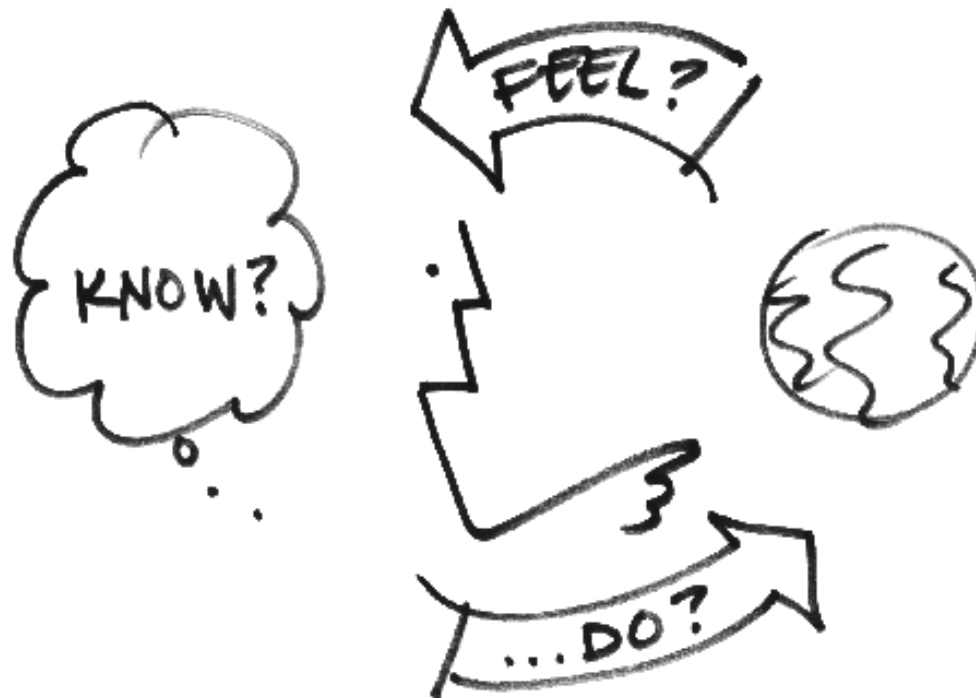
INDUSTRIAL DESIGN CENTER

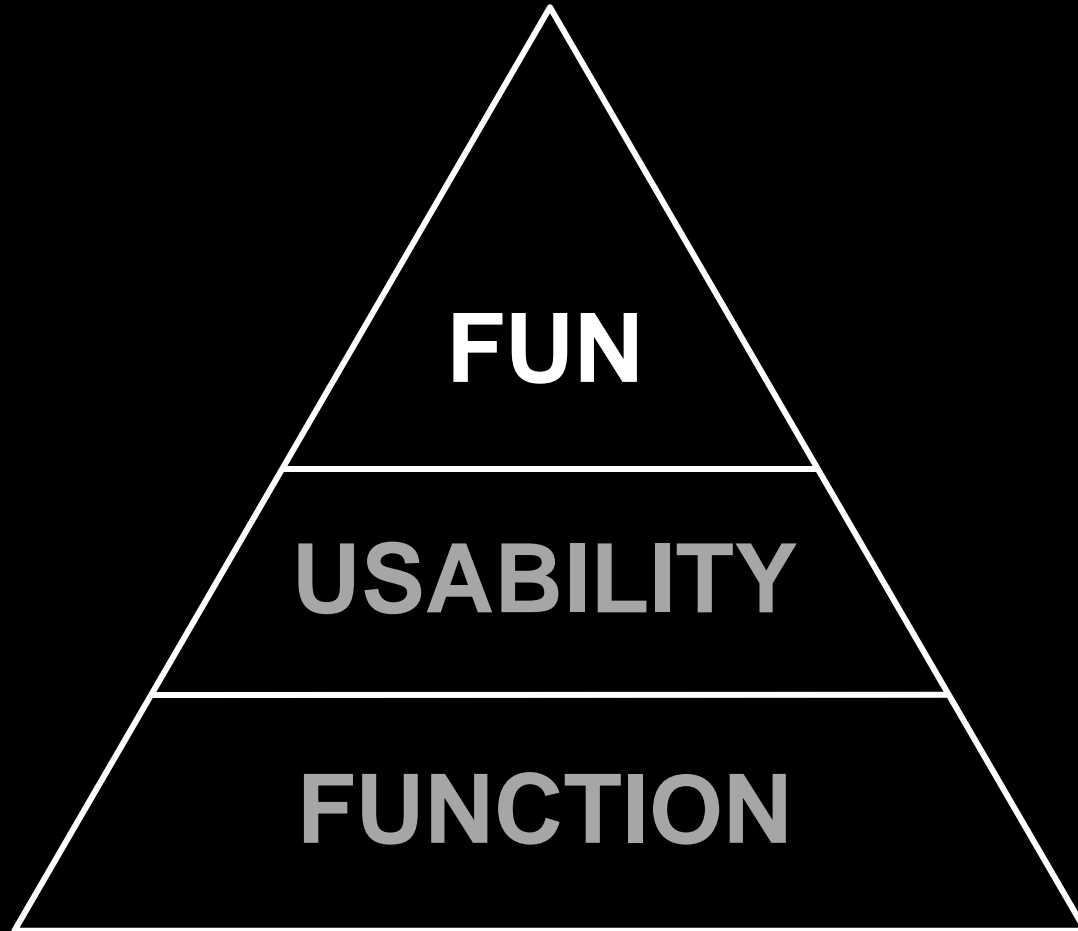
A photograph of a modern industrial design center. The space is filled with large, polished metal pipes and various mechanical components, suggesting a focus on industrial design and manufacturing. The room has large windows on the right side, providing a view of a green outdoor area. The floor is light-colored, and there are some storage bins and equipment visible in the background.

(RE)CREATING THE INDUSTRY

FROM PRODUCT
TO EXPERIENCE

INTERACTION DESIGN





we are preparing
students for **MAKING**
products / processes / services
that don't yet exist.

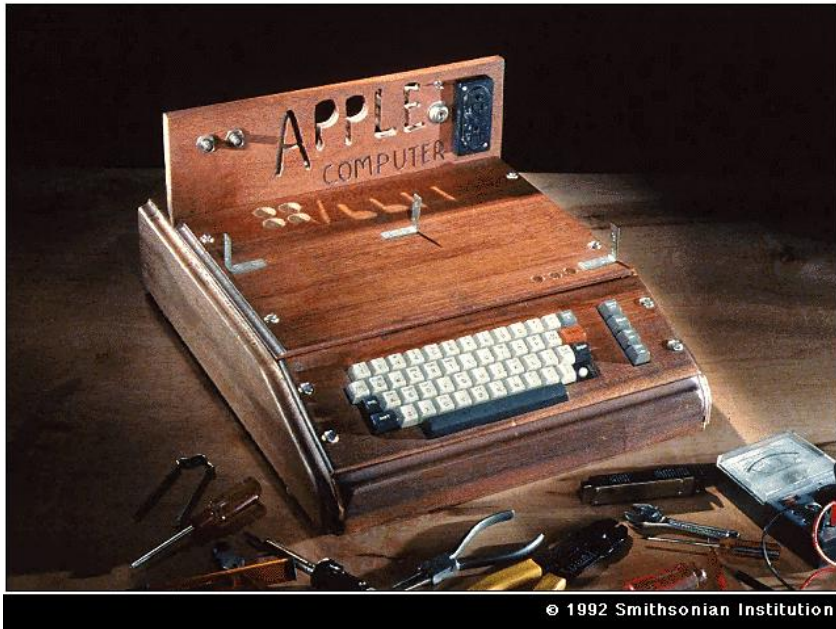
MAKING = LEARNING



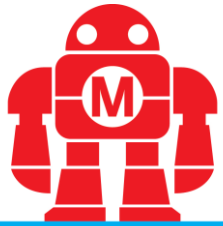
MIT's SANDBOX CULTURE

INDUSTRIAL DESIGN ENGINEERING

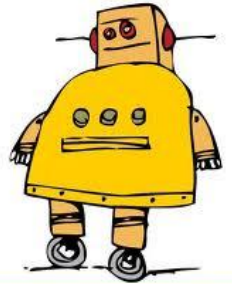
Hacker Culture '70 - Silicon Valley



DIY PHILOSOPHY

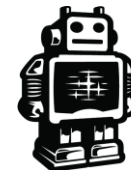
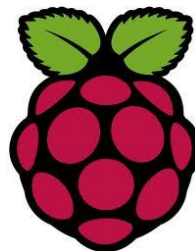


Maker Faire



[instructables.com](https://www.instructables.com)
THE WORLD'S BIGGEST SHOW & TELL

Make:



Ultimaker

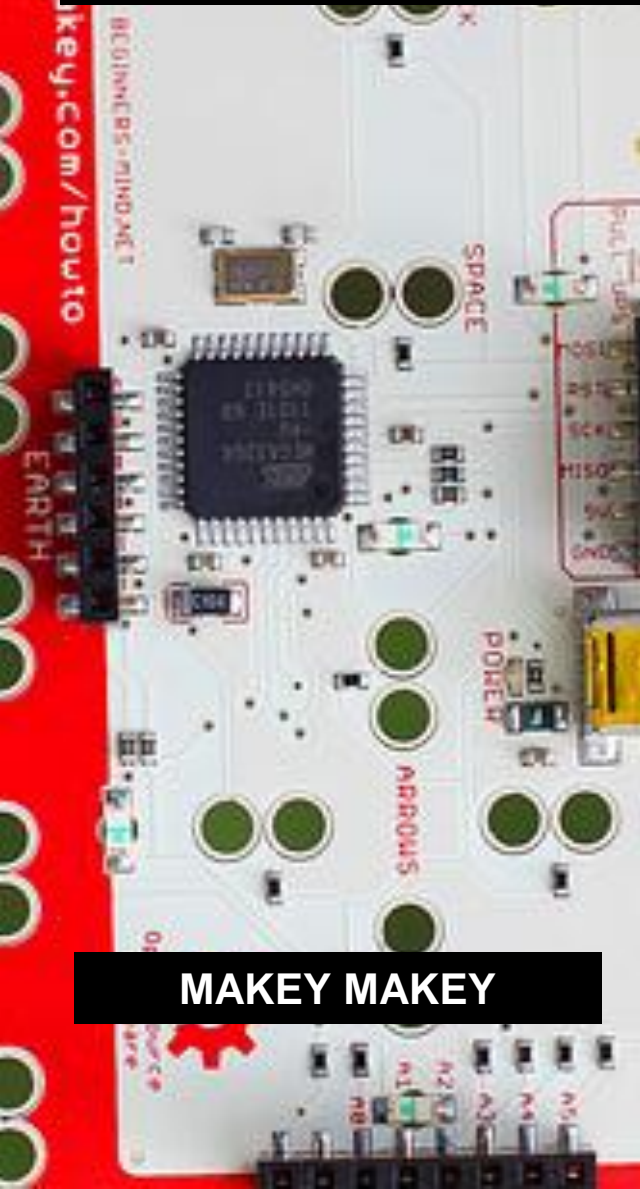
DIY TOOLS

FABLABS !!



DIY TOOLS

PROTOTYPING ELECTRONICS



MAKEY MAKEY



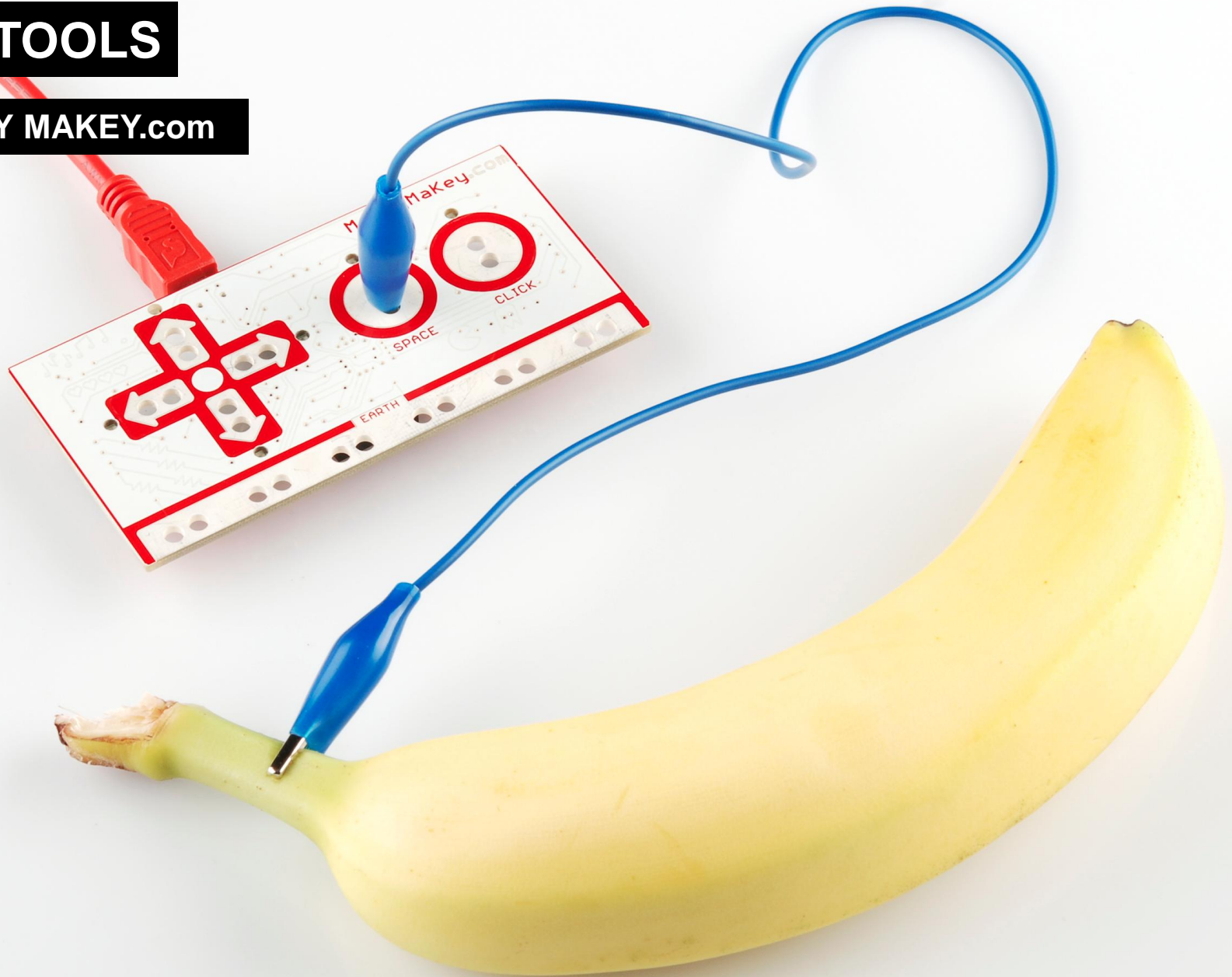
ARDUINO



RASPBERRY PI

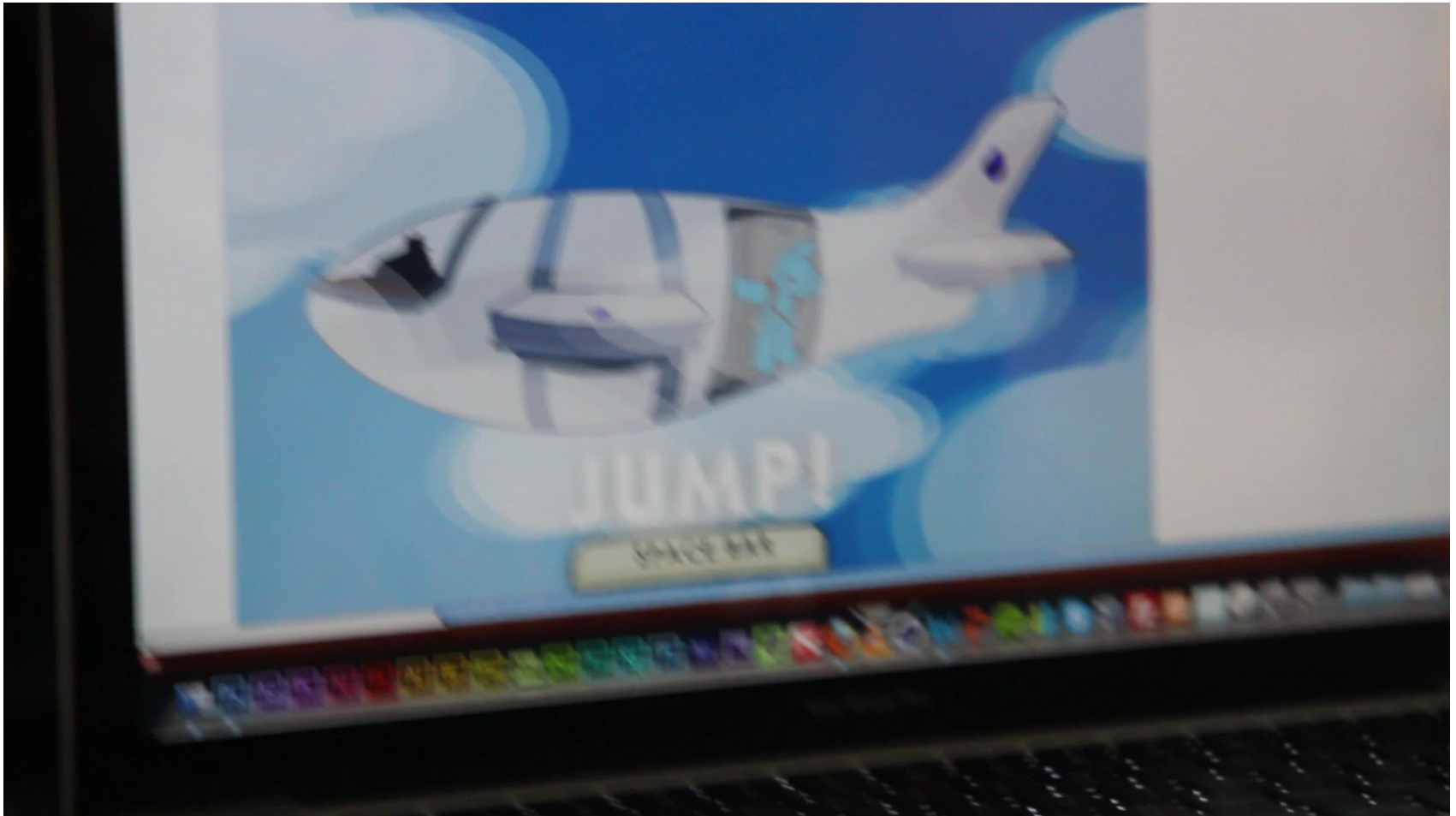
DIY TOOLS

MAKEY MAKEY.com



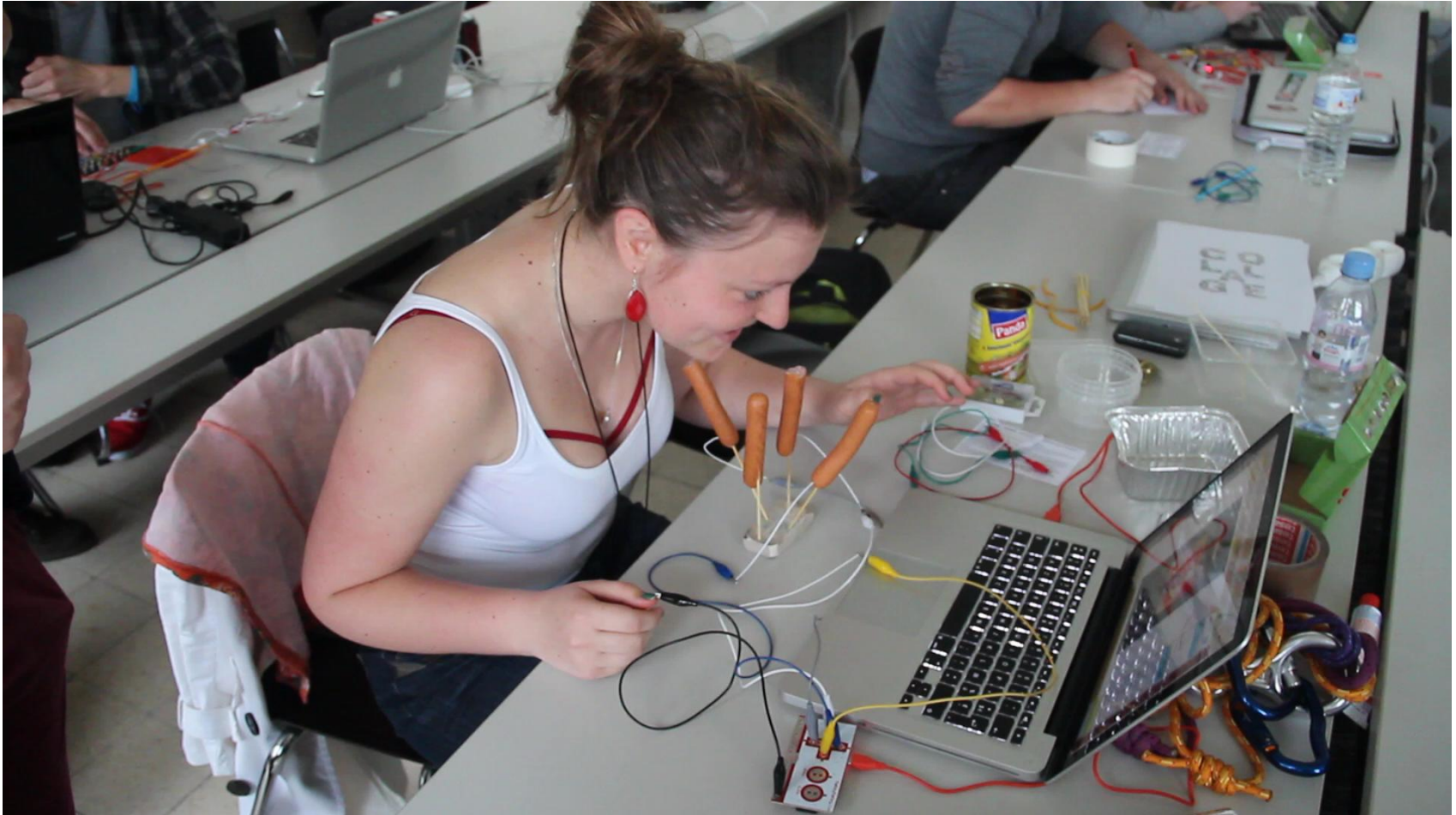
GAME INTERFACES – TIII.be

SKYDIVE-ABCOACH



GAME INTERFACES – TIIl.be

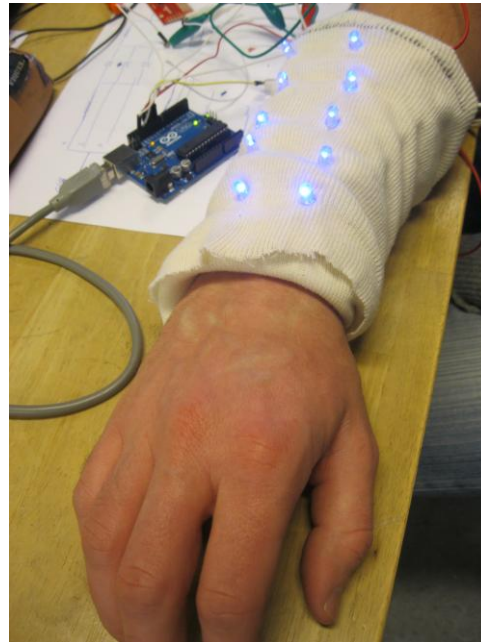
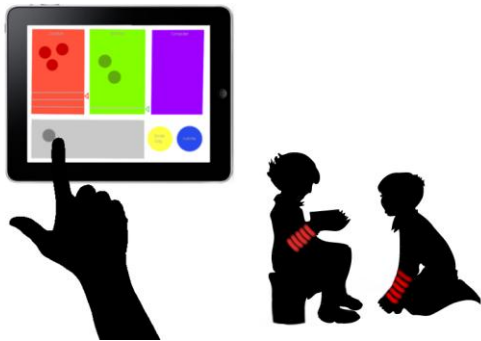
EATING PACMAN



DIY TOOLS

PARTICIPATORY DESIGN

Start with **sketching** User Experiences and **involve** users



FUTURE USER INTERFACES



NUI - NATURAL USER INTERFACES



TUI - TANGIBLE USER INTERFACES



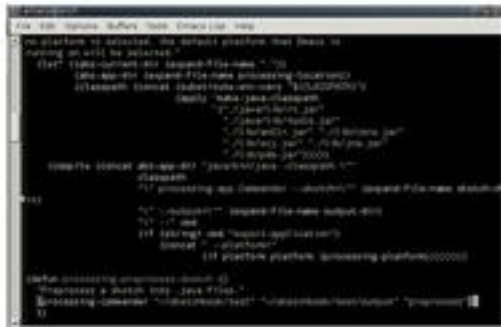
RUI - ROBOTIC USER INTERFACES

FUTURE USER INTERFACES



NUI - NATURAL USER INTERFACES

NUI – NATURAL USER INTERFACES



A photograph of a forest stream. On the left, a large tree trunk stands near the water. A mossy log lies across the stream in the middle ground. The right bank is covered in ferns and grass, with tree roots exposed in the shallow water. The background is a dense green forest with sunlight filtering through the leaves.

NATURAL INTERFACE ?

NUI - NATURAL USER INTERFACE

DISNEY RESEARCH – BOTANICUS INTERACTICUS

NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – CURRENT STORIES



NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – CURRENT STORIES



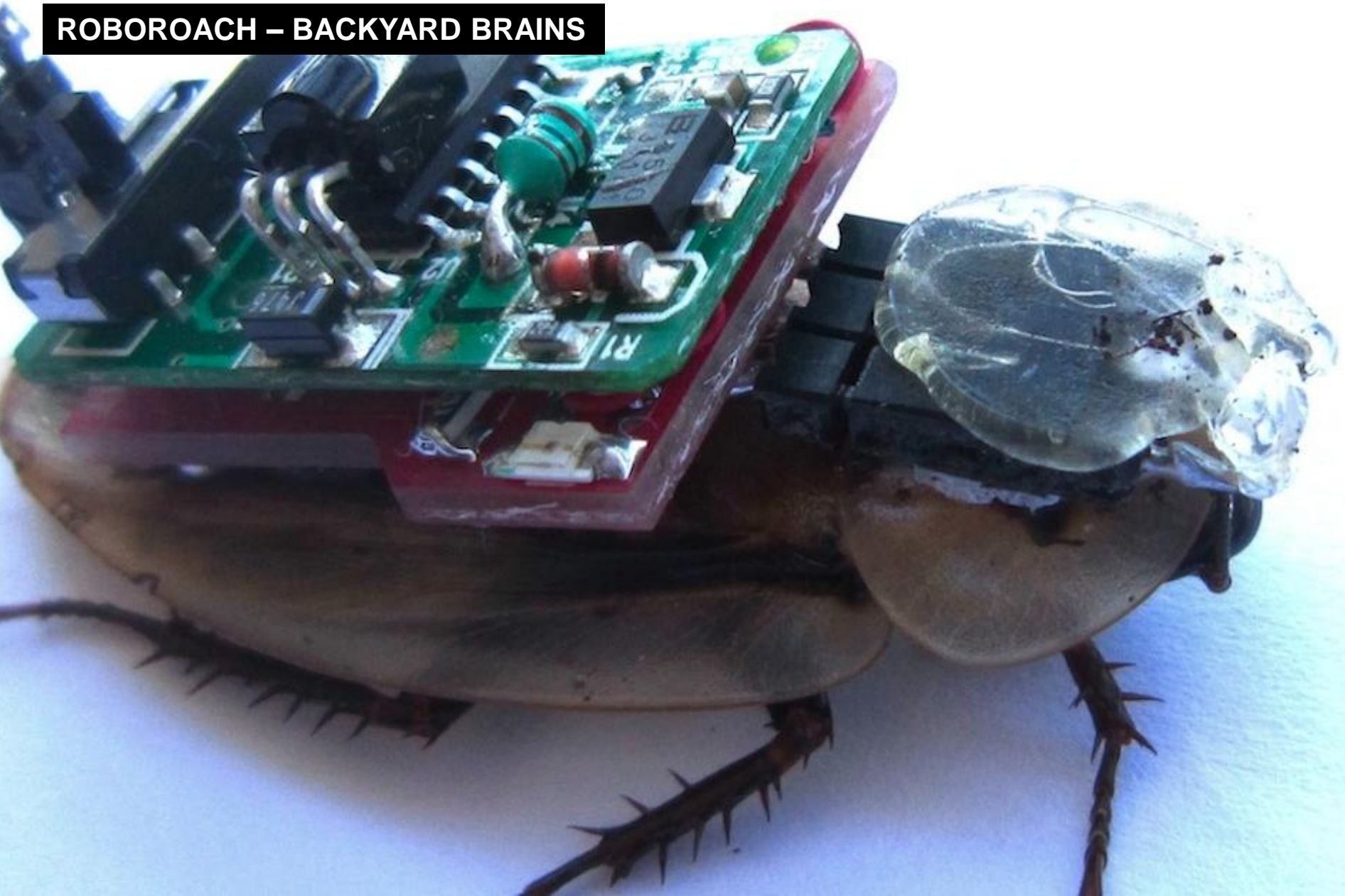
NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – CURRENT STORIES



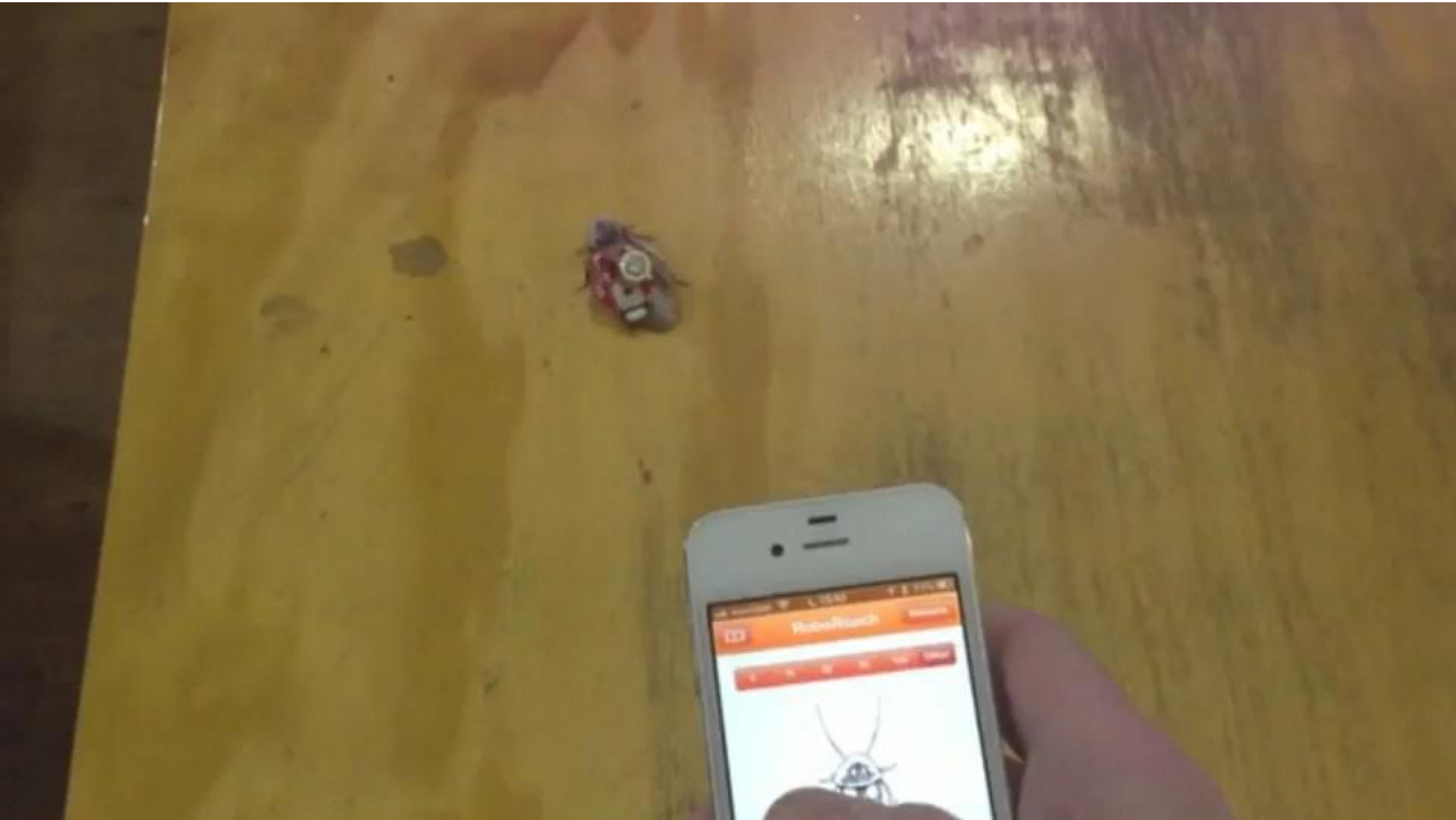
NUI - NATURAL USER INTERFACE

ROBOROACH – BACKYARD BRAINS



NUI - NATURAL USER INTERFACE

ROBOROACH – BACKYARD BRAINS



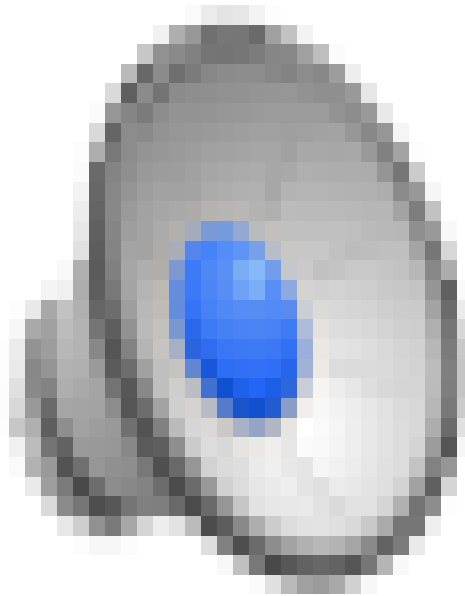
NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – WHACK A MOUSE



NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – WHACK A MOUSE



NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – EMUSE



NUI - NATURAL USER INTERFACE

STUDENT WORK @ UGENT – EMUSE

EMUSE

SMART HEADPHONE WHICH CHOOSES YOUR MUSIC

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Kenny Nuytten

kenny.nuytten@ugent.be

http://www.tiii.be/cases/mechatronics-design/mechatronics-design-2015/mt2015_case06



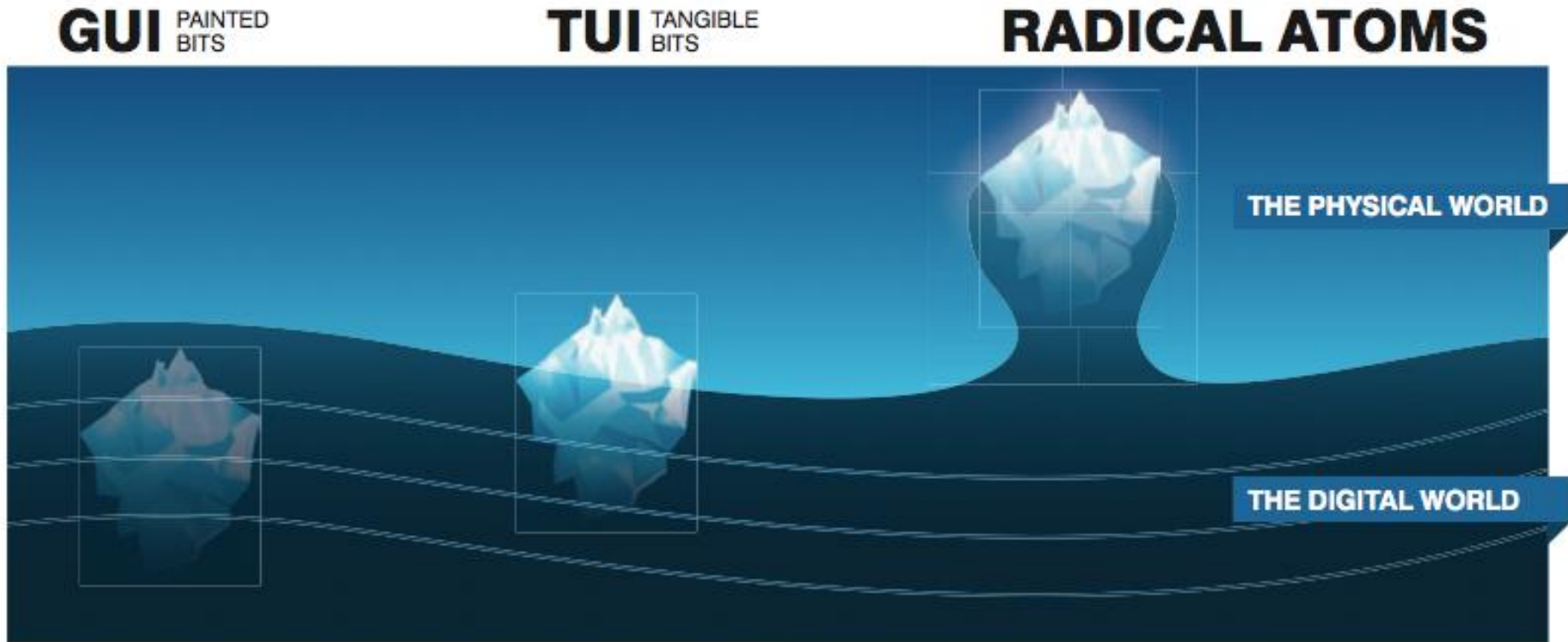
jelle.saldien@ugent.be
francis.wyffels@ugent.be
steven.verstockt@ugent.be

FUTURE USER INTERFACES



TUI - TANGIBLE USER INTERFACES

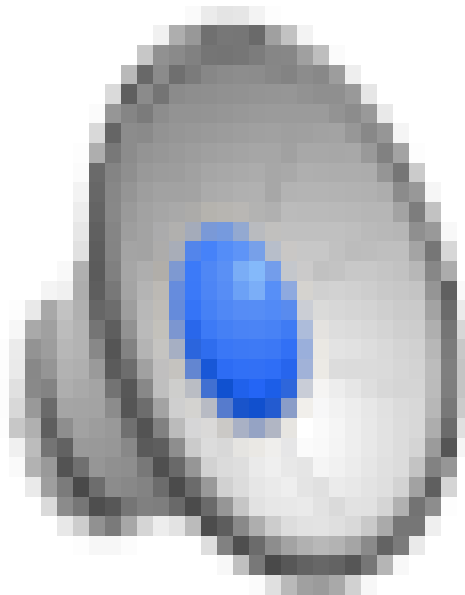
TUI - TANGIBLE USER INTERFACE



Hiroshi Ishii (2012)

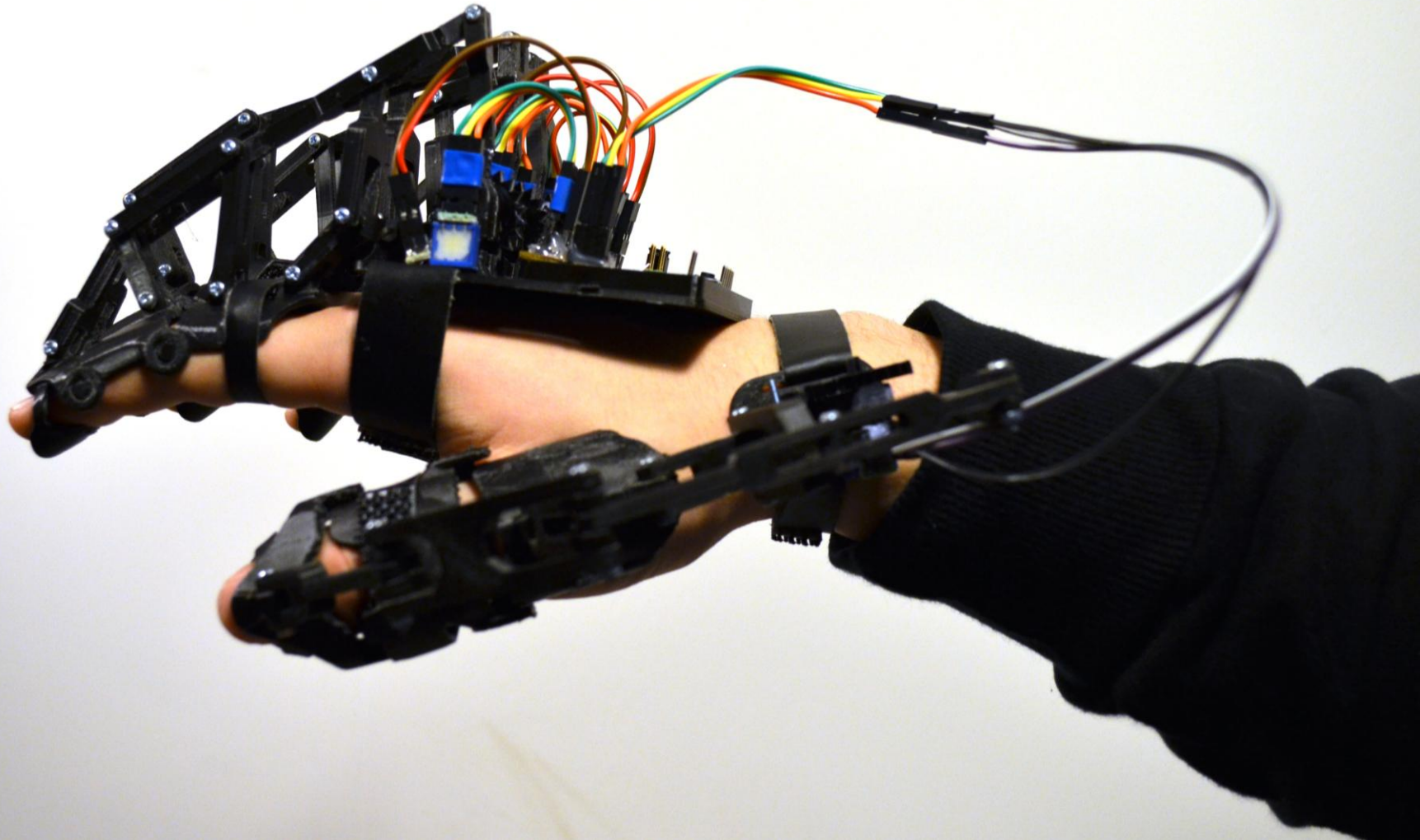
TUI - TANGIBLE USER INTERFACE

inFORM – TANGIBLE MEDIA GROUP



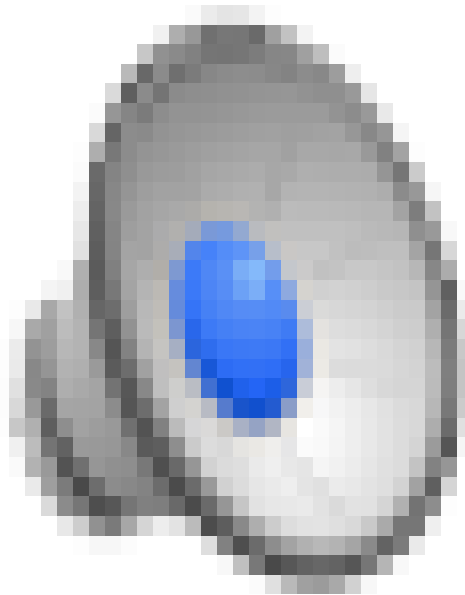
TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – EXOTACT



TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – EXOTACT



TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – SHARETREE



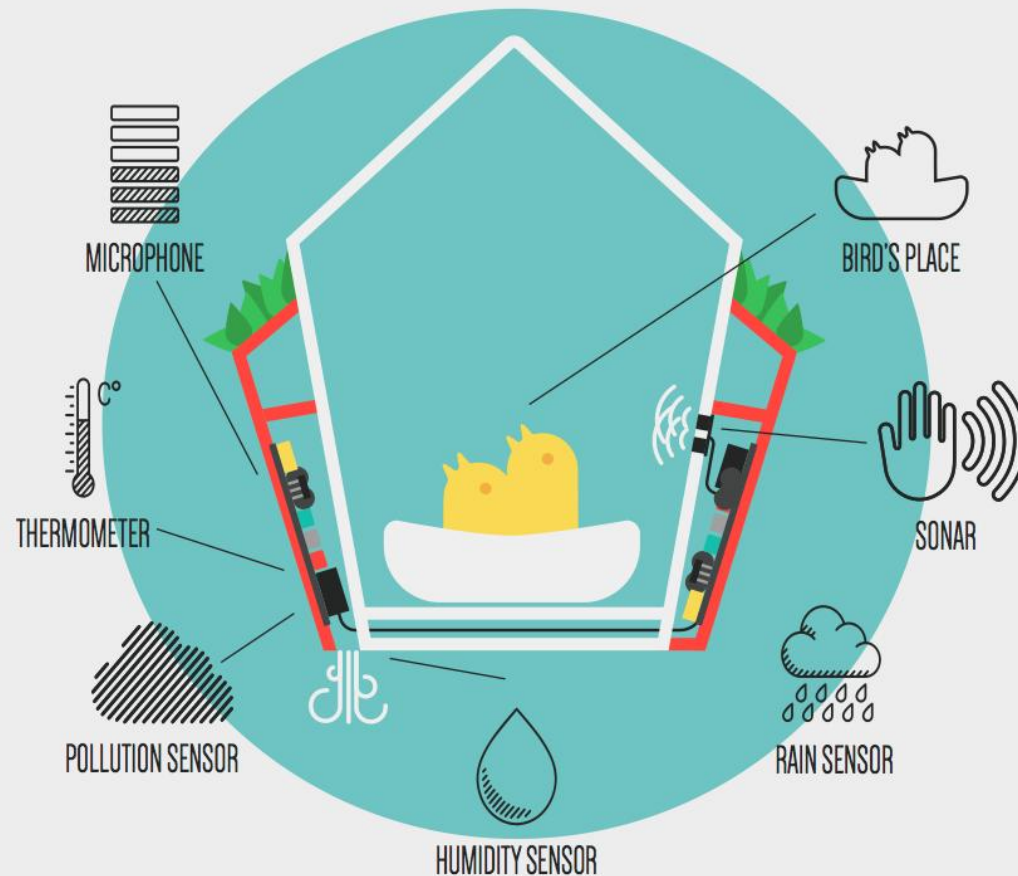
TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – SHARETREE



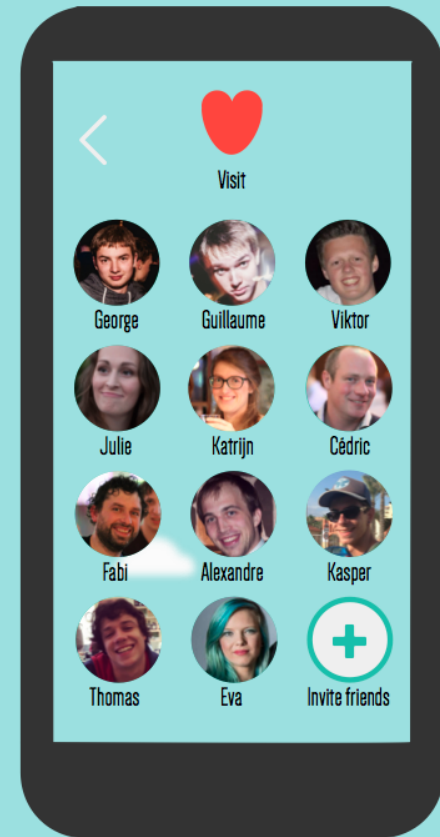
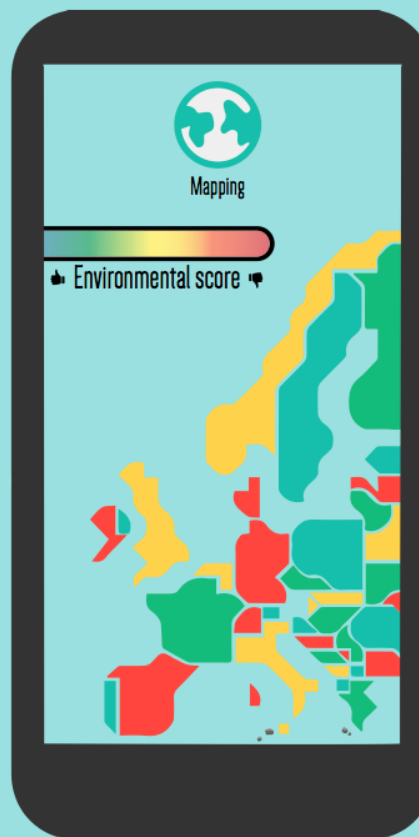
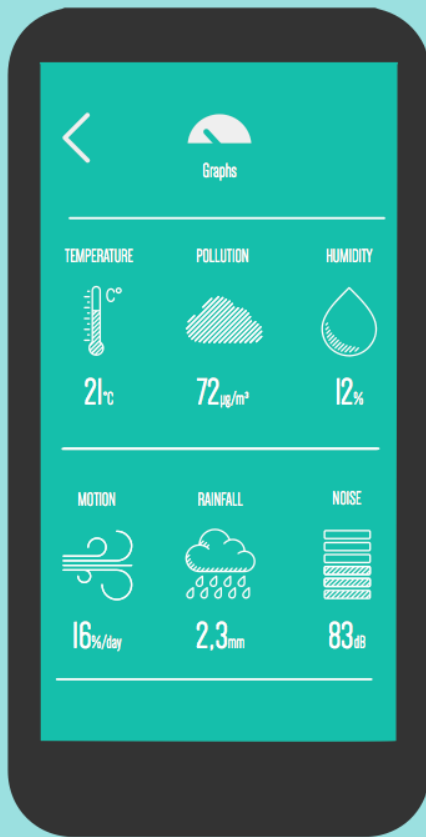
TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – VIDO



TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – VIDO



TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – VIDO



TUI - TANGIBLE USER INTERFACE

STUDENT WORK @ UGENT – VIDO



FUTURE USER INTERFACES



RUI - ROBOTIC USER INTERFACES

RUI - ROBOTIC USER INTERFACE

PHD WORK @ UGENT – OPSORO.be



RUI - ROBOTIC USER INTERFACE

PHD WORK @ UGENT – OPSORO.be

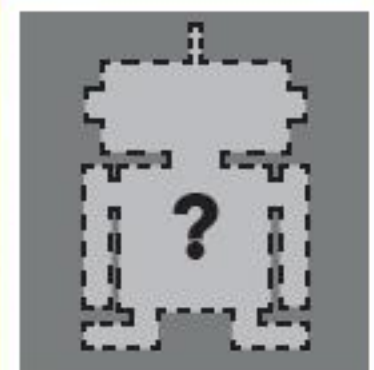


ABC



RUI - ROBOTIC USER INTERFACE

PHD WORK @ UGENT – OPSORO.be



NEED FOR NEW INTERFACES ?

MOBILE LOVERS - BANKSY



NEED FOR NEW INTERFACES ?

MOBILE LOVERS - BANKSY



THANK YOU

**EVERYBODY CAN MAKE STUFF !
THE ONLY LIMITATION IS YOUR IMAGINATION**

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