

INDUSTRIEEL ONTWERPEN

Master of science in de industriële wetenschappen



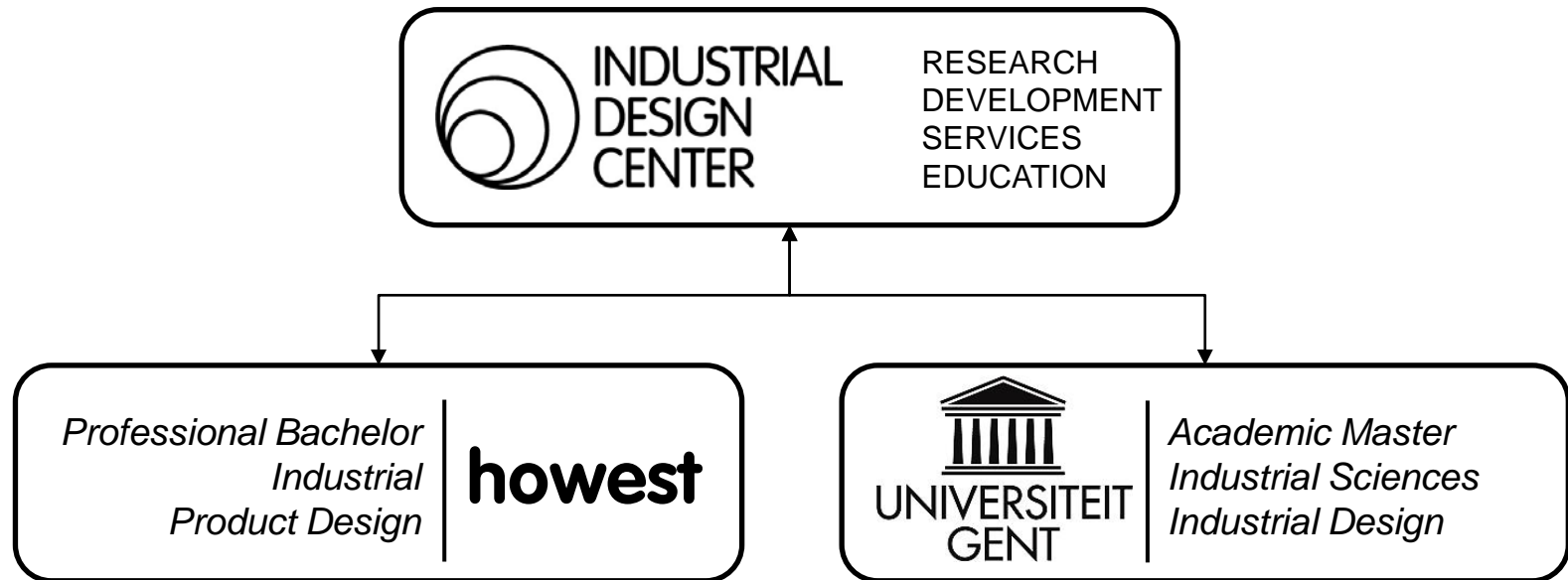
The role of making within integrated design engineering



(RE)CREATING THE INDUSTRY

UGENT/CAMPUS KORTRIJK | INDUSTRIAL DESIGN CENTER

INDUSTRY PERSPECTIVE





Faculty of Engineering Sciences and Architecture



Department ISP: Industrial System and Product Design
Campus Kortrijk



Industrial
Energy
Applications



Industrial
Automation



Intelligent
Media
Systems

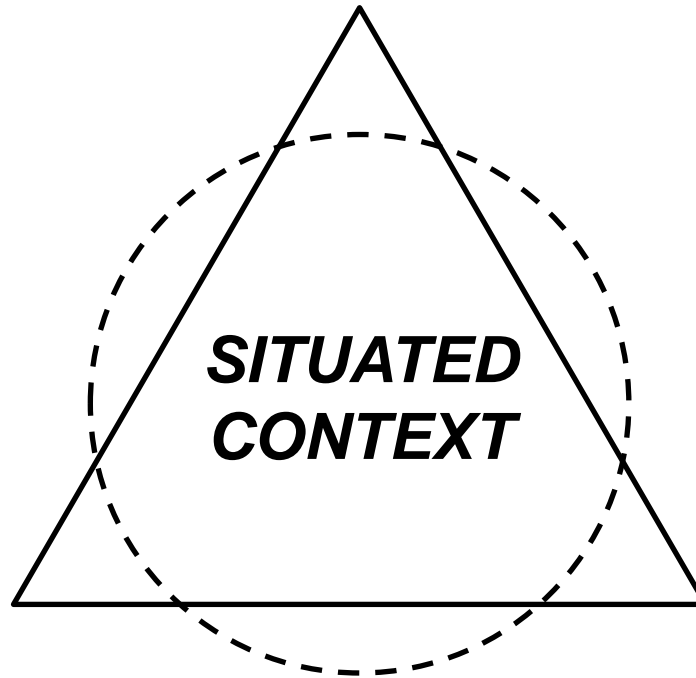


Industrial
Design

What is integrated design engineering?

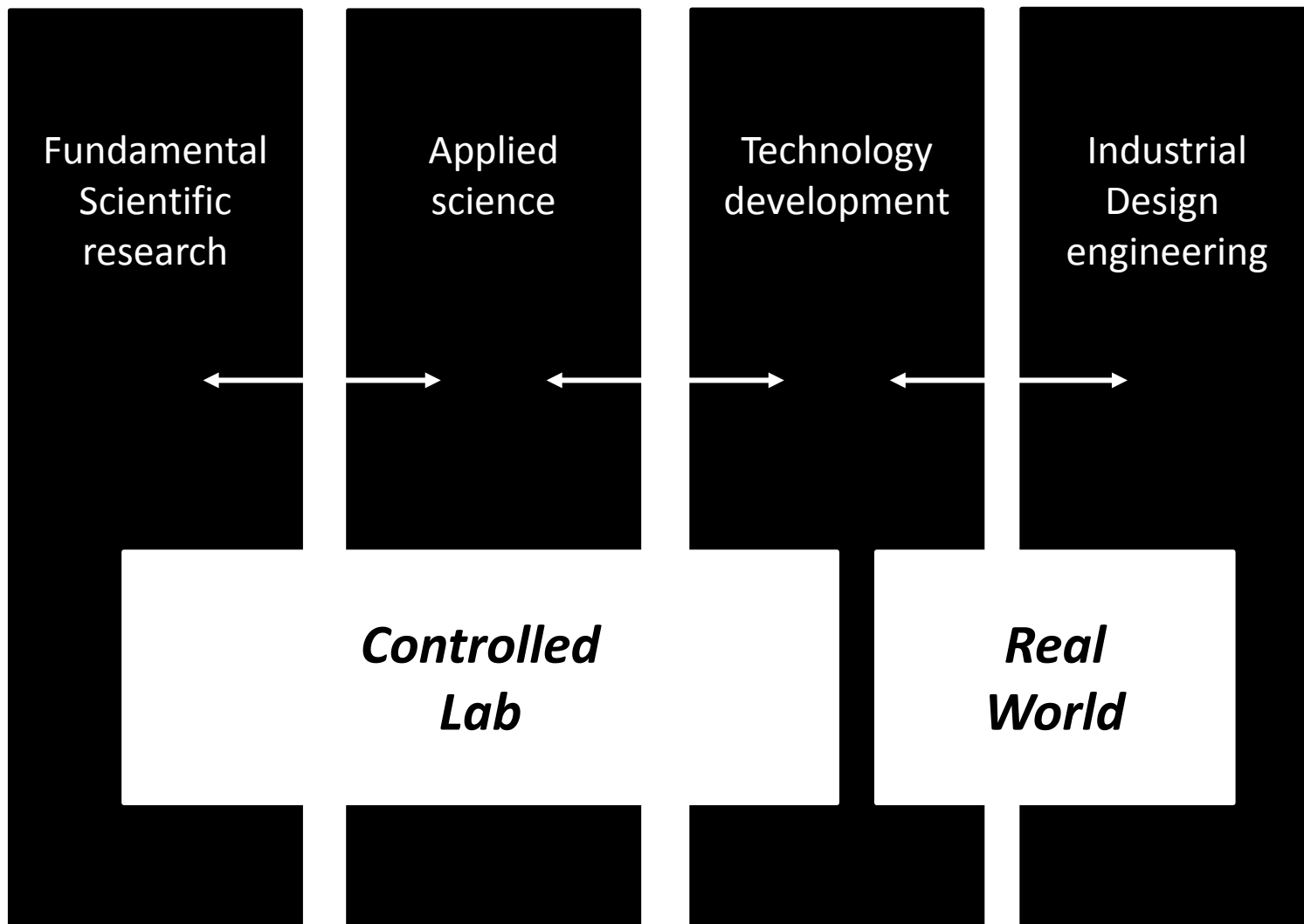
INTERDISCIPLINARY & CONTEXTUAL

**Value
Creation**



**Applied
Technology**

**Stakeholder
centered**





TECHNOLOGY ADAPTATION DUE TO LOCAL CHANGE

FLEXIBLE MANUFACTURING
OPEN DESIGN
THE INTERNET OF THINGS

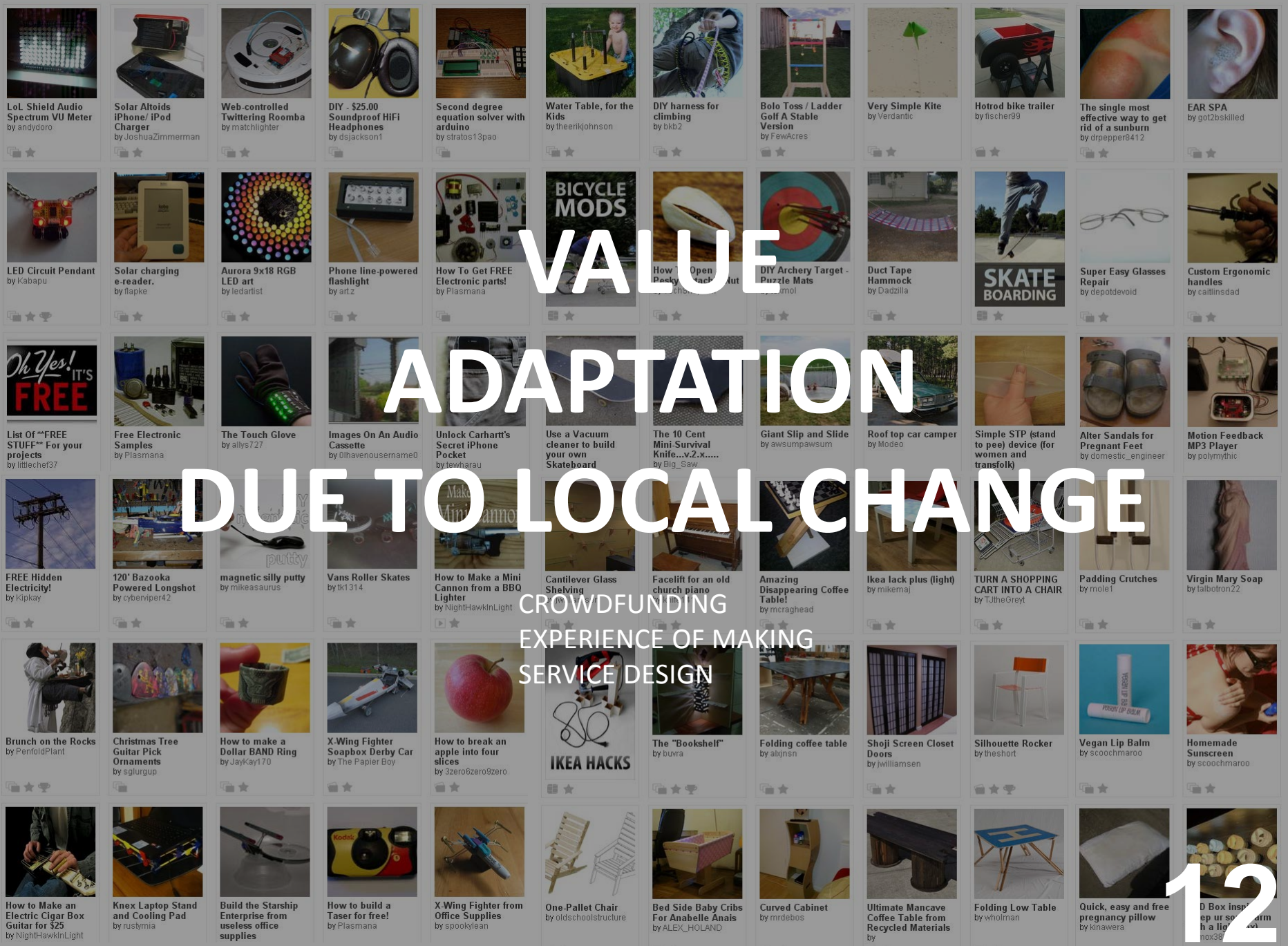
A young man with a shaved head, wearing a white short-sleeved button-down shirt, stands in the foreground. He is holding a white prosthetic hand with red and black accents on his left hand. The background shows a rural landscape with a dirt path, trees, and several people sitting or standing in the distance under a clear sky. The overall lighting is warm, suggesting late afternoon or early morning.

STAKEHOLDER ADAPTATION DUE TO LOCAL CHANGE

USE AND MAKE TIME
NEIGHBOURHOOD PRODUCTION
MASS LOCALISM

VALUE ADAPTATION DUE TO LOCAL CHANGE

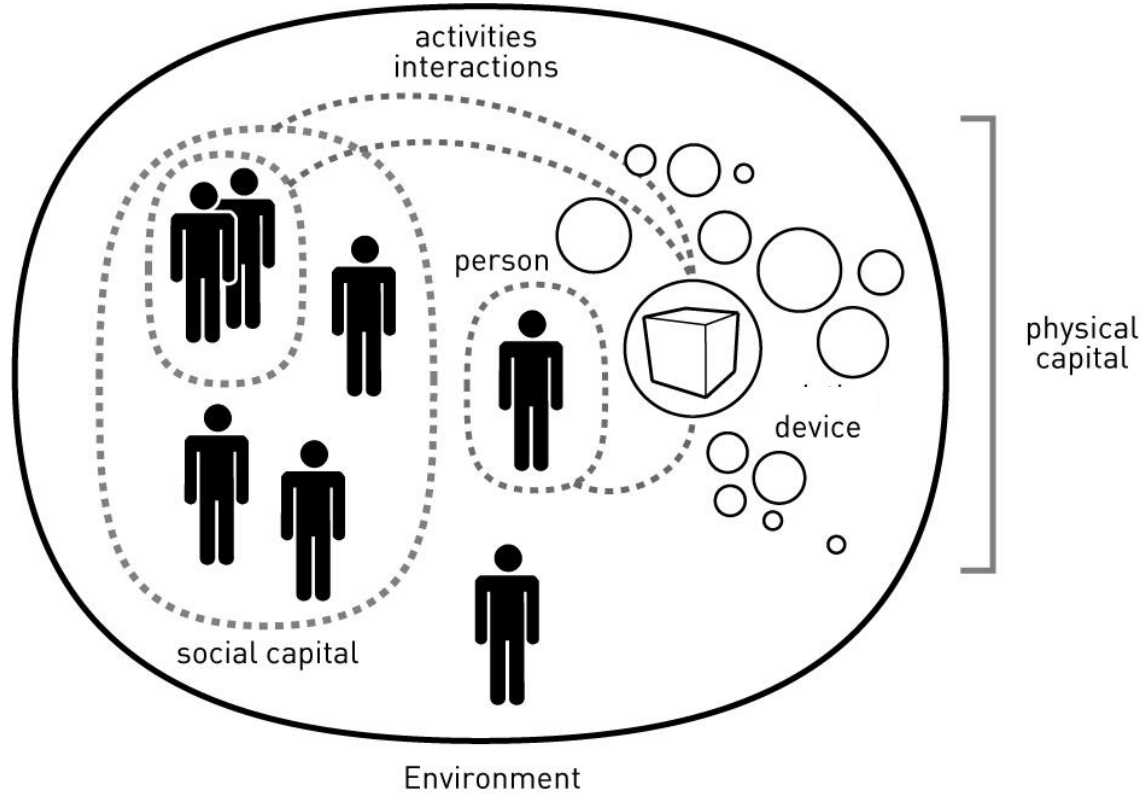
CROWDFUNDING
EXPERIENCE OF MAKING
SERVICE DESIGN



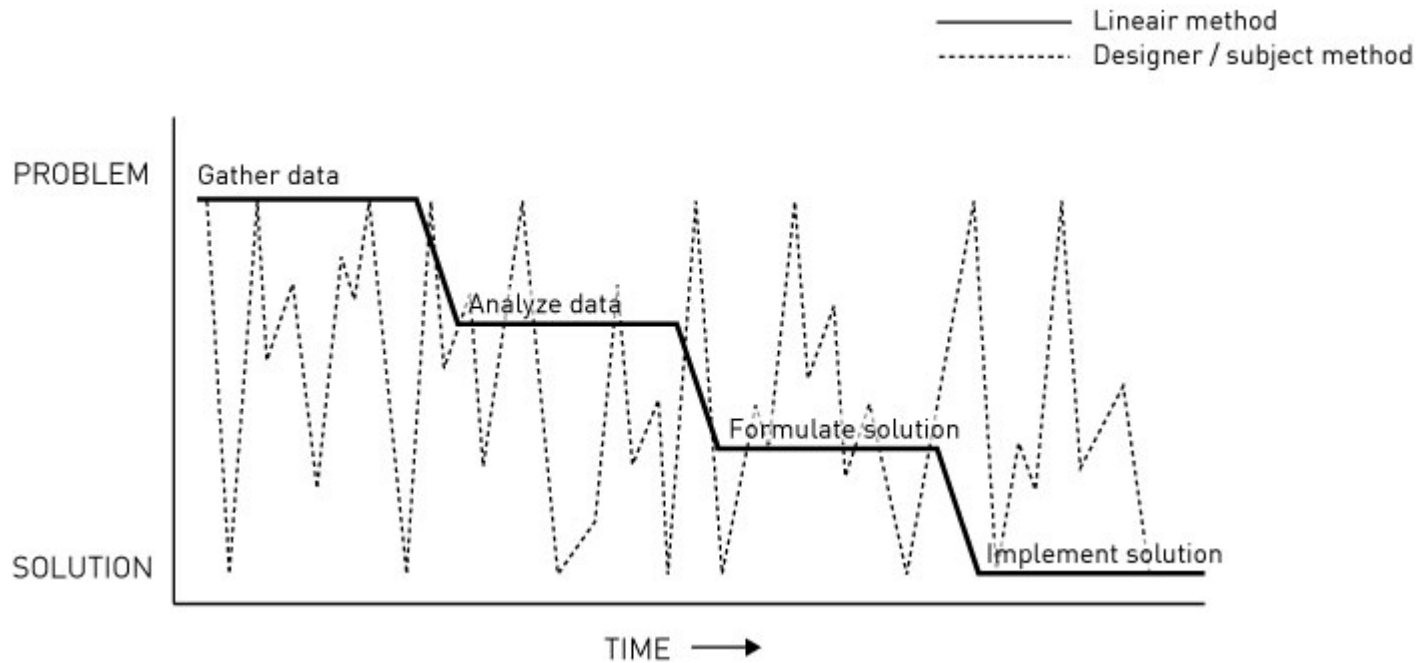
We are currently
preparing
engineers for **making**
products /processes/services
that don't yet exist
in a fast changing world.

Why making?

SITUATED PROTOTYPING ACTIONS AS LEARNING VEHICLES

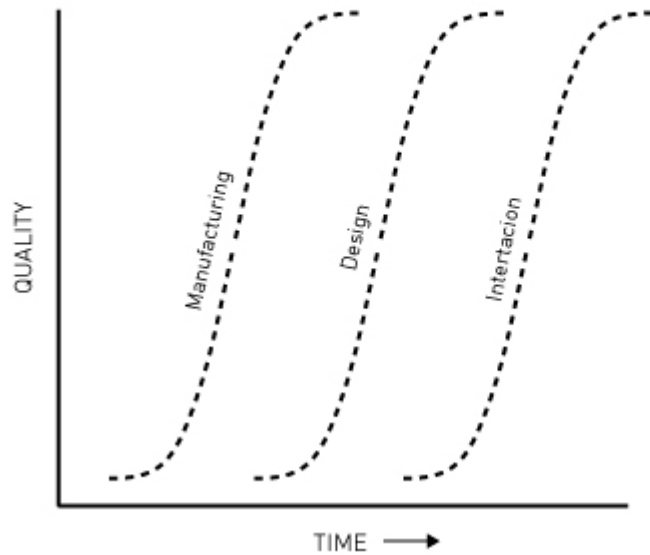


INTERACTIVE COGNITION

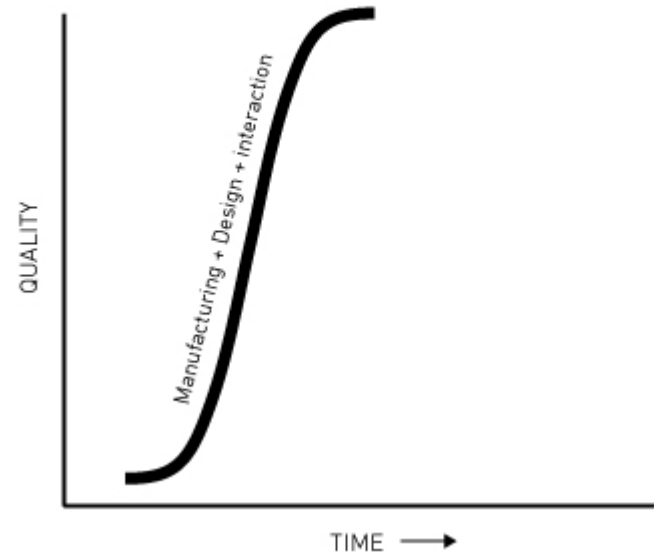


LEARNING-CURVES

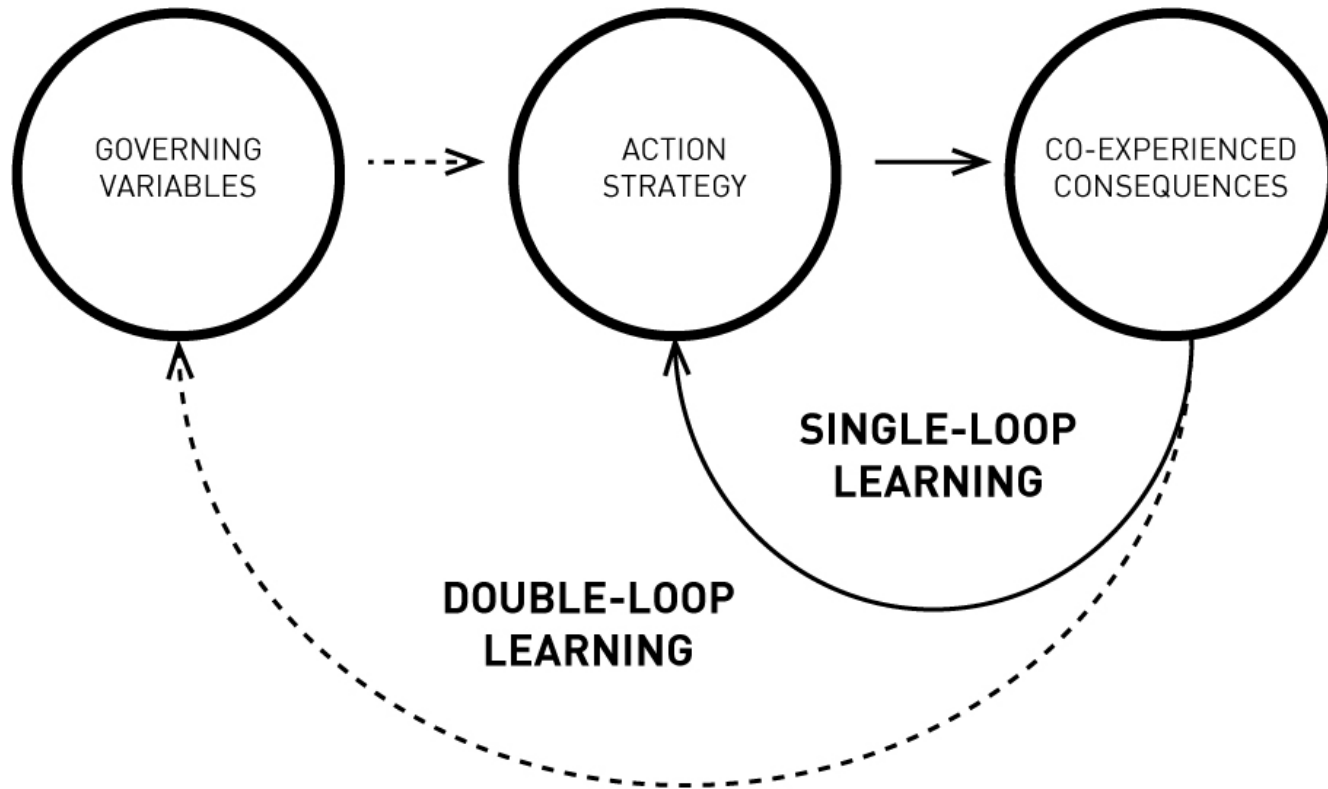
CLASSIC DESIGN



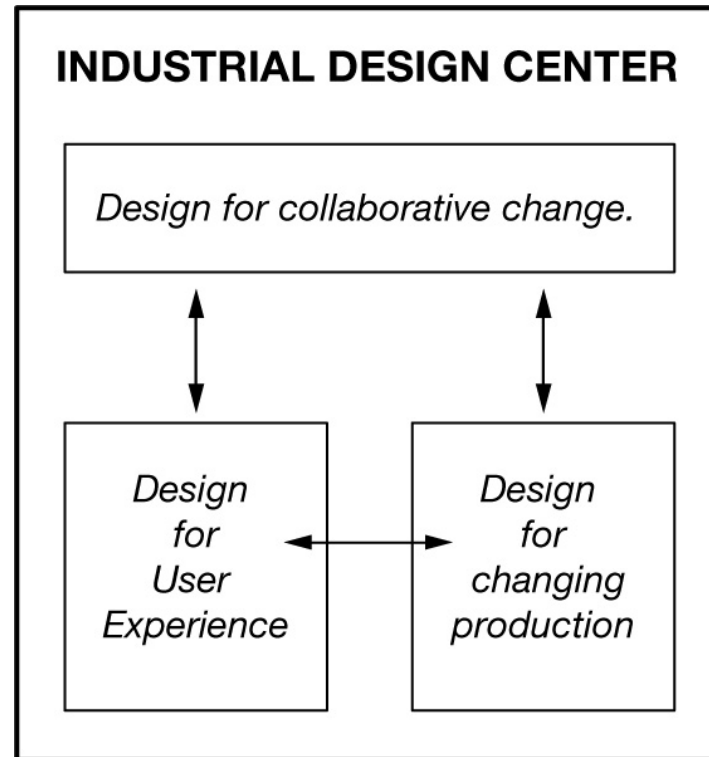
DO-IT-YOURSELF



STEERING THROUGH REFLECTIVE PRACTICE



RESEARCH FIELDS



Design for User Experience (D4UX)

Focuses on the quality of interaction. It fully encompasses all, tangible and intangible, aspects of future intelligent products as perceived by users.

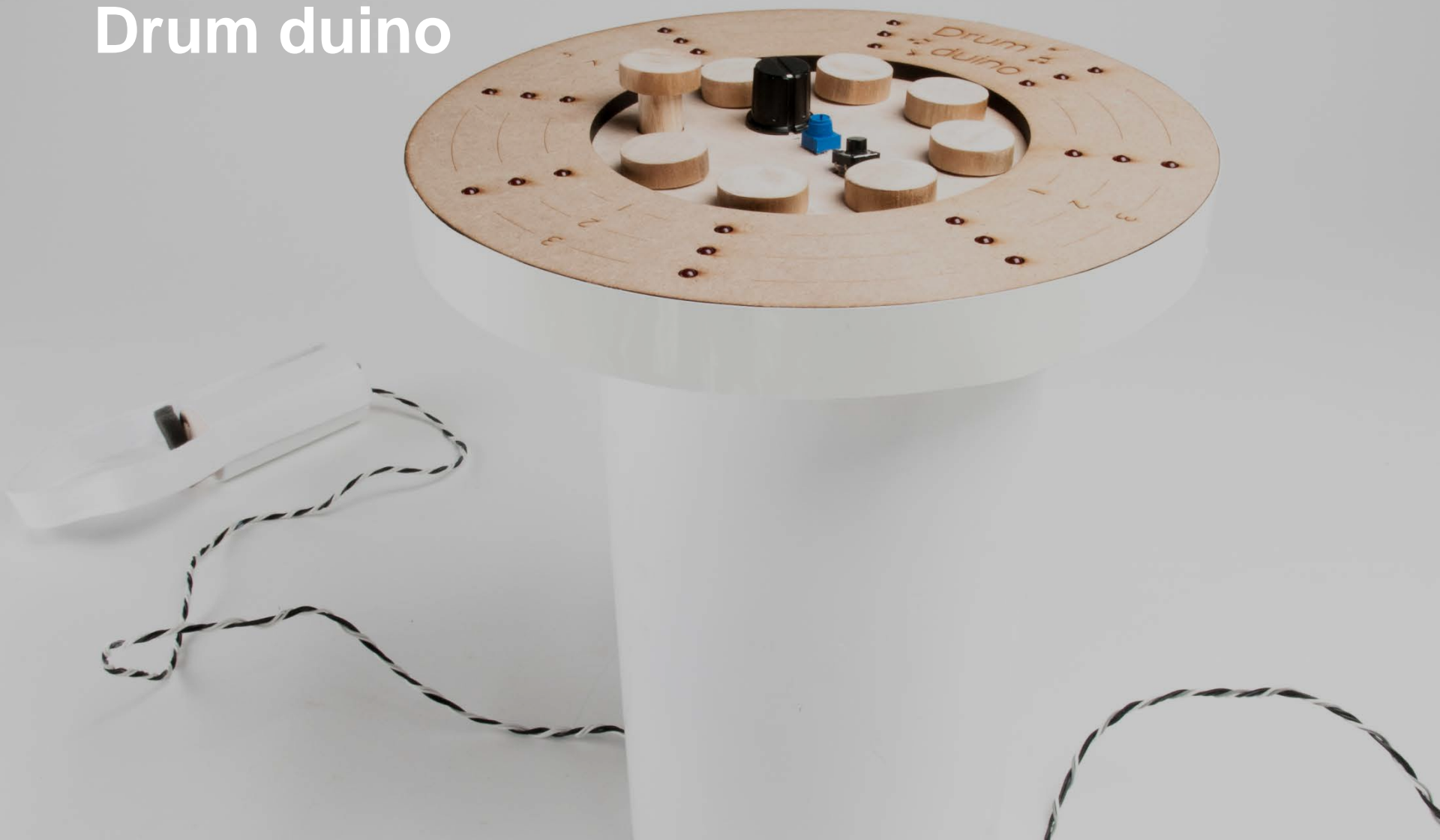


Helium





Drum duino





Skweezee





Range-it



Design for Changing Production (D4CP)

Focuses on the challenges and opportunities of low volume manufacturing and the efficient use of rapid prototyping techniques.

Celer





Design to connect





Isomocutter



Slipcasting



Design for collaborative change (D4CC)

Focuses on the role of design as an inquiry process to share knowledge, explore, learn and building consensus between several stakeholders. It focuses on practical design-related tools for achieving this.

Play it forward



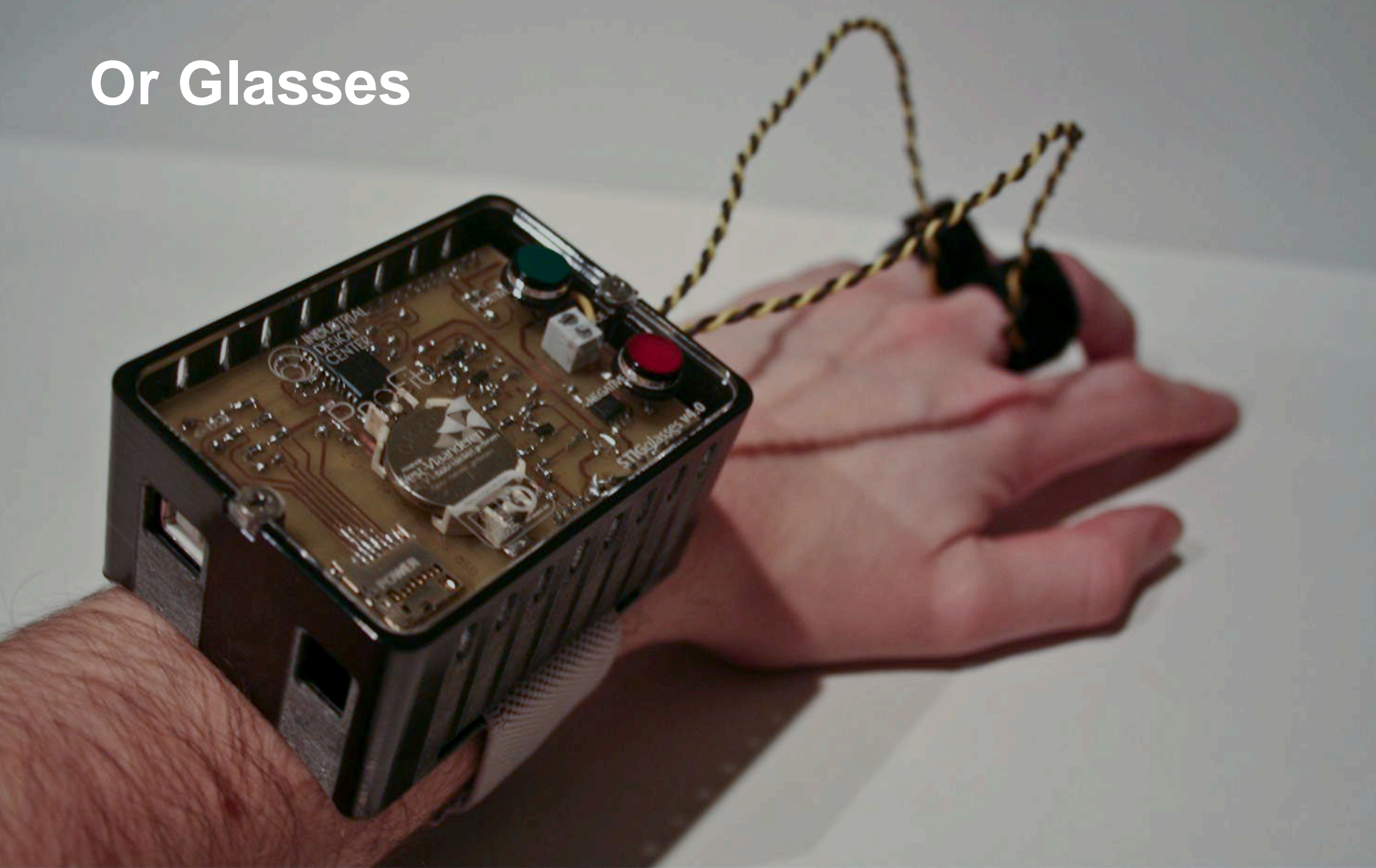
Breastboard



Design for (every)one



Or Glasses



The role of making within integrated design engineering?

The world as extended mind

- Stakeholder collaboration in design and production
- Integration of domain specific expertise
- Capturing explicit and tacit knowledge
- Creating common languages
- Applied creativity
- Demo or die

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