

Project Partners:

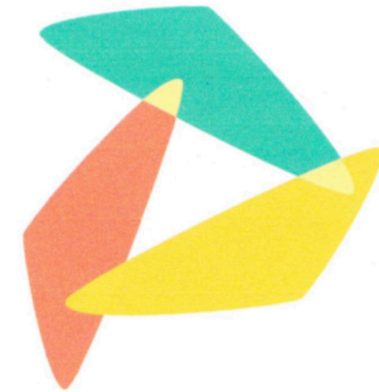


and many global
co-researchers:
THANK YOU!



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006285

<https://criticalmaking.eu>



**Critical
Making**

Project Zine

GET INVOLVED IN CLIMATE ACTION

sustainable solution to reduce carbon emissions and landfill waste

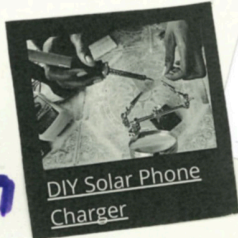
locally-sourced cost-effective wood

Eco Star Extension Cable

"We need to shift from ego to eco on every level of our existence."



locally available upcycled materials to charge phones in areas without electricity



DIY Solar Phone Charger

BUILD



promote a thriving circular economy in

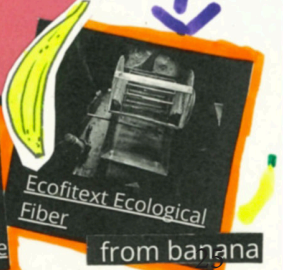
the textile industry

TRANS-FORMATIONAL ECONOMIES

providing affordable & safe healthcare equipment alternatives.



Digital Wireless 3D Printed Stethoscope



Ecofitext Ecological Fiber

from banana

CC BY-SA 4.0
DOI: 10.5281/zenodo.7966847
Berlin, June 2023
Workshop and layout by Sidney Drmay
Edited by Dr. Regina Sipos

EMPOWERED MAKER COMMUNITIES

For makers, community
is the key.

For communities,
making can be
the key to
empowerment.



Empowering maker
communities can

- teach useful skills
- offer resources to
community members,
such as tools & spaces
- create pathways to
financial independence
- promote gender
equality



Dear Reader,

Welcome to the Critical Making Project Zine!

As an academic consortium, we documented the past 2,5 years of collaboration through traditional academic ways: peer reviewed journals, conference presentations, reports and other deliverables. These are never published before they are deemed perfectly polished.

Fortunately, in the last few years, researchers have also started experimenting with non-traditional research outputs, which let us be creative and show you the other side of our work. Inspired by punks and other countercultures, zines provide us with a method to show you what's going on behind the academic scenes. The zines edited by Garnet Hertz helped us frame this project, and Sidney Drmay held our hands throughout the creative process of filling the pages.

As the Critical Making Project is coming to an end, we are publishing this zine not only to summarize our experiences and reflect upon them, but also to thank everyone who helped us make the project happen: our Advisory Board, the many non-academic project partners, and of course all of our global co-researchers, **the critical makers of the world.**

We hope you'll have fun browsing through our experiences.

Yours sincerely,
The Critical Making Consortium Members

The Story of How we Got to an Escape Room Game from an Academic Framework

Step 1: We had an idea!

During the development of the proposal, we realised that Designable Research-Learning (2021) and Graduate Learning Movements (GML) did not have an intersection. So we decided to change this.

Step 2: The Critical Making Responsibility Framework is born!

A multidisciplinary group of researchers came together to combine two existing frameworks:

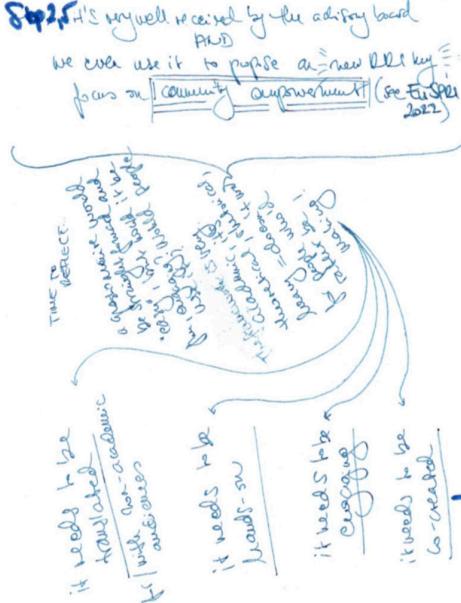
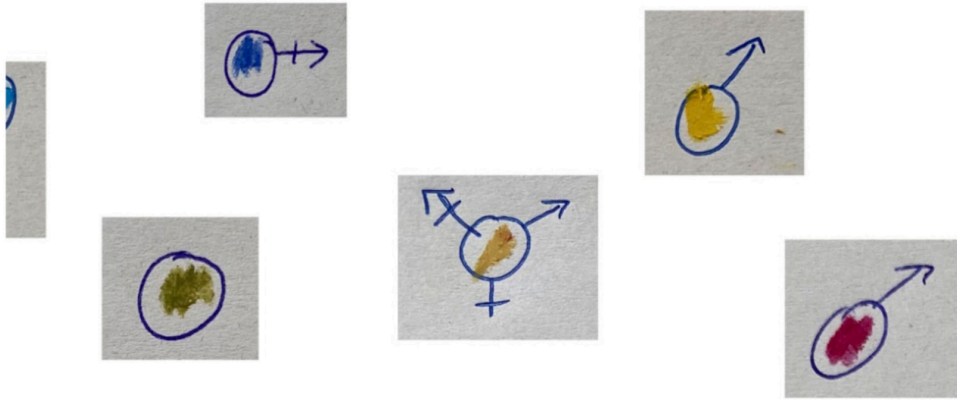


Table 1. Critical Making Responsibility Framework. This content by the Critical Making community.

DEFINITION	DESCRIPTION	RESEARCHERS
CRITICAL MAKING	...to understand and describe the ways in which people make things, and how these things are used in the world. It is a practice that involves making something, and then reflecting on the process of making it, and the things that are made. It is a practice that is often used in education, and in other fields where people are interested in how things are made.	...to understand and describe the ways in which people make things, and how these things are used in the world. It is a practice that involves making something, and then reflecting on the process of making it, and the things that are made. It is a practice that is often used in education, and in other fields where people are interested in how things are made.
RESPONSIBILITY	...to understand and describe the ways in which people make things, and how these things are used in the world. It is a practice that involves making something, and then reflecting on the process of making it, and the things that are made. It is a practice that is often used in education, and in other fields where people are interested in how things are made.	...to understand and describe the ways in which people make things, and how these things are used in the world. It is a practice that involves making something, and then reflecting on the process of making it, and the things that are made. It is a practice that is often used in education, and in other fields where people are interested in how things are made.

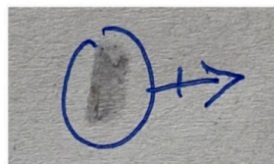
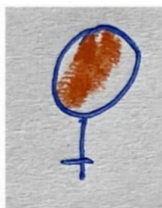
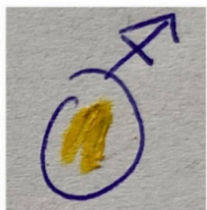
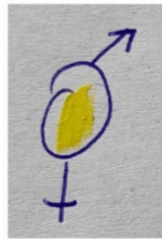
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More infos, guidelines, role models, stories, initiatives on gender-inclusive making:



SCAN ME



4

ANTICIPATION
RESPONSIVENESS
REFLEXIVITY
INCLUSIVENESS

Anticipation refers to systematic thinking which aims to increase resilience of communities and helps to recognize and create opportunities for challenging the existing state of the art with novel social and technical innovations. Anticipation can be fostered with various participatory and deliberative foresight tools including horizon scanning, scenario building and road mapping. The aim is also to make people aware of existing social imaginaries.

Responsiveness is the ultimate aim of the three previous RRI principles: to increase the capacity of researchers and science and innovation system to be responsive for social challenges related to their research. In institutionalized research this kind of responsiveness is shown for example in the direction of research efforts towards recognized societal challenges. In addition, research actors can actively influence the rules of the game in society by promoting changes in regulation and standards and contributing to ongoing policy debates and programs.

Reflexivity refers to deliberate rethinking of how one's activities encounter and reflect the social norms and conventions and potentially challenge or strengthen existing social power relations, division of labor and costs and benefits or whether it causes potential risks for other people or ecological environment. Reflexivity is a process of questioning one's own activities and looking at them from the perspective of other people and natural beings.

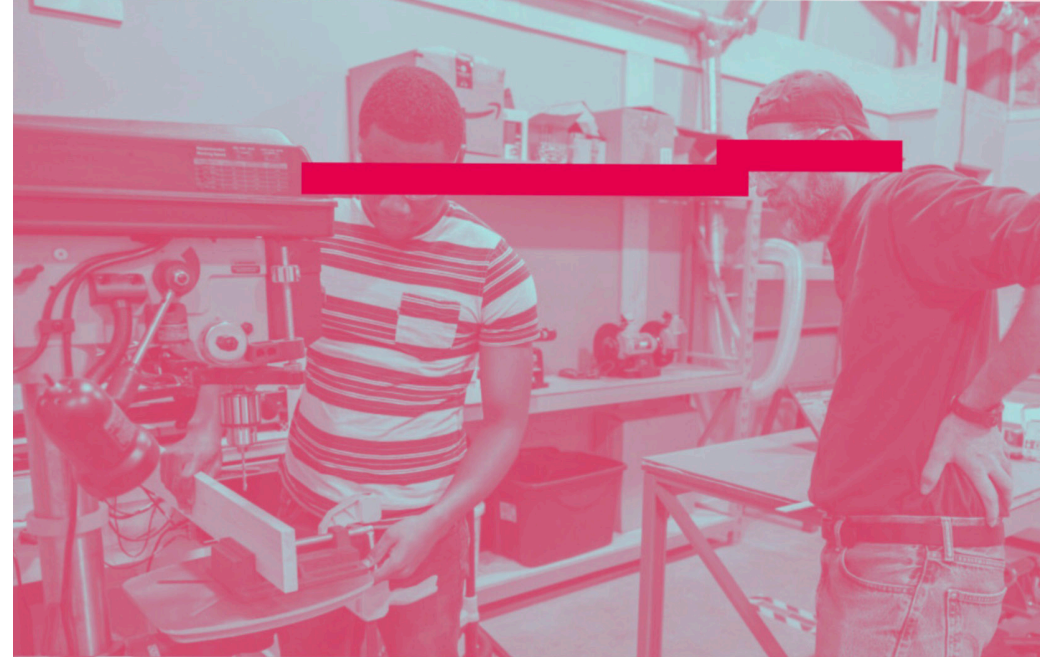
Inclusiveness refers to the need to include multiple voices and stakeholders in the innovation and making to bring in legitimacy and to provide an opportunity for stakeholders to express their concerns and opinions about the direction of activities. Several engagement methods to achieve inclusion in research have been introduced including for example citizen juries and panels or more light consultation through surveys and polls. In grassroots innovations the context is different as innovations are driven by citizens. In this case also, there is the need to carefully consider that people with multiple background feel welcome and get their voices heard in making activities and to make sure that also often underrepresented citizens (e.g. elderly people, young people, people with lower socioeconomic status etc.) are invited to participate.

• What futures do we want?
• What consequences does my making have?

Am I addressing a social issue?

What resources am I using? Where do they come from?

Whom am I excluding? Why?



LERN DOCH, WAS DU WILLST!*

* LEARN, WHATEVER YOU WANT

and
create
Future



PL

ANYPLACE,
ANYWHERE,
ANYTIME



IMPACTS OF CRITICAL MAKING PROJECT

Reflexivity

1. NEW SKILLS FOR IMPACTFUL MAKERS THROUGH THE MENTORING PROGRAMME



Responsiveness

2. NEW TOOLS AND CAPABILITIES FOR EDUCATORS TO BRING CRITICAL MAKING INTO THE CLASSROOMS



Community empowerment

3. EMPOWERMENT OF FEMALE MAKERS THROUGH COLLABORATION AND FINANCES, ALLOWING THEM TO NAVIGATE THE MALE-DOMINATED FIELD OF TECHNOLOGY BUILDING



Ethics

4. GUIDELINES FOR HOSTING INCLUSIVE MAKERSPACES CO-CREATED WITH PRACTITIONERS AND DISTRIBUTED ONLINE

Anticipation

5. CREATING AN ONLINE COMMUNITY WITH OPENLY SHARED MAKER PROJECTS ON WIKIFACTORY, BUILDING A BASE FOR CONTINUITY



Openness

6. AND MORE! CHECK OUT CRITICALMAKING.EU TO READ MORE AND ACCESS THE RESOURCES!



How to Measure Impact

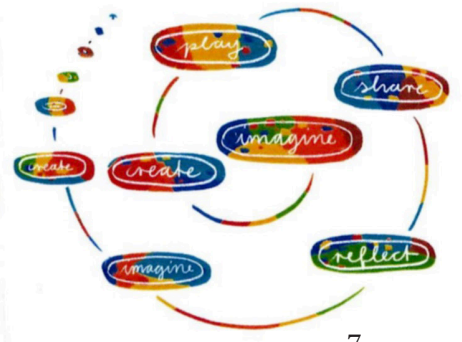
The Sustainable Development Goals as Our Guide

SDGs the Critical Making project contributes to most



Art. 29 EDUCATION
 Deine Bildung soll Dir helfen, alle Deine Talente und Fähigkeiten zu entwickeln. Sie soll Dich außerdem darauf vorbereiten, in Frieden zu leben, die Umwelt zu schützen und andere Menschen und ihre Rechte zu respektieren, auch wenn sie anderen Kulturen oder Religionen angehören. Dafür sollst Du auch die Menschen- und Kinderrechte kennenlernen und achten.

43-54 KONVENTION ÜBER DIE RECHTE DES KINDES



Making IS MORE THAN 3D PRINTING

The pillars of
in EDUCATION



PROSUMEERISM



Transparency

SOCIAL
INNOVATION

REFLEXIVITY

a brand-new
economy and financial system
that truly services people, planet,
and prosperity.

The Power of
Responsibility

CRITICAL MAKING MENTORING

"It's different in every community but we all have similar challenges across the world."

"This programme shows that there is a world of possibility that one may not always have been exposed to."



as told by the mentees!

"It has strengthened the ties between people living in different countries."

Hosting makers from around the globe online, sharing knowledge and creating ties.

LOVE TO LEARN

HACK | MAKE | BUILD | CREATE

TEACH



unidentifiable

HOW FAR?



make time to make stuff + document it

During the process we needed to adjust the timeline - of course.

Programme Outline

- First Deadline for applications**
 May, 22nd
 Secure your spot early!
- Information on acceptance to the programme**
 May, 31st
 First round of projects acceptance
- Information on acceptance to the programme**
 June, 15th
 Second round of projects acceptance
- Entry Interview**
 20 - 24, June
 this is a place for you to stop and think about your project, the sustainability values you are currently promoting and various ways in which your project could be even better.
- Workshop series**
 June to December
 Each workshop has a different mentor, so during the series, you will learn from many distinct perspectives and themes. In a group mentoring setting, you will learn not only from the mentors, but also other mentees.
- Exit Interview**
 March
 Another chance to reflect on your making practices! In the exit interview, you will get to reflect on how your making has changed during the mentoring program together with other attendees.
- Demo Week**
 December
 Finish your documentation and present your results to the world. Isn't it great?



We taught 18 makers from all around the world with practical tools to make their projects more sustainable and critical – and provided financial support for materials and the open documentation.

Saad Chinoy
Make things that make sense
 In the first workshop, the general sense of maker projects will be considered. What are the problems you are trying to tackle with your making? How to consider ethical aspects when making?

Emilio Velis
Share how you make it
 In the second workshop of the series, questions of sharing and reproducibility of makes are considered. Sharing is not a simple task, if you wish for others to be able to remake and remix what you have made.

Aravindh Panch
Include ecosystem services
 The third workshop of the series focuses on the environment you are working in.

Georgia Nicolau
Integrate local knowledge
 In this workshop, you will learn about different solutions that could be found through co-design or other human-centered design practices, where the local knowledge beyond your makerspace can be utilized.

Bahar Kumar
Build for continuity
 The last workshop of the series focuses on financial questions. How to make your making financially sustainable? In this workshop, you will get tools to build a self-sustaining, continuous making practice.

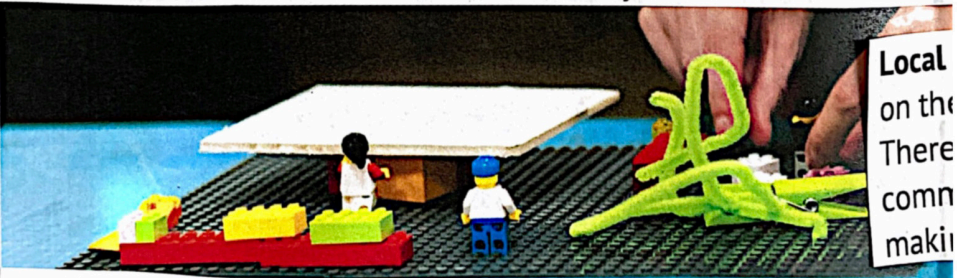
meet the teachers



6 core values of Critical Making

Impactful: Critical Making seeks to

Social & Diverse: Critical Making reflects on the social dimension of making, the living realities of those persons involved and concerned, as well as the ethical implications of their work. Critical Making thereby addresses societal challenges and needs. That's why it is so important to strive for diversity and inclusiveness.



Local & connected: Critical Making is happening locally, working on the ground and adapted to a particular socio-cultural context. Thereby, critical making implies an engagement with local communities as well as global networks - thinking globally and making locally.

Reflexive: Critical Making re-thinks and re-constructs the dominant mainstream maker culture from a critical stance, reflecting on underlying power structures and their implications.



Open: Critical Making promotes open collaboration, including the sharing of skills and knowledge. It boosts creativity in the ecosystem of makers by making processes and results accessible.

Joyful & meaningful: Critical Making is still about the joy of making, but adds meaning to it. What is made critically is made with a specific purpose of individual or social kind.

6 core values of Critical Making

Impactful: Critical Making aspires to really make a difference. It seeks to improve life and build a sustainable future.

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