

D7.3 FINAL REPORT ON CRITICAL MAKING CED ACTIVITIES AND EXPLOITATION

About this document

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LIST OF ACRONYMS AND ABBREVIATIONS

CED Communication, engagement and dissemination

CMRF Critical Making Responsibility Framework

EC European Commission

GA Grant Agreement

GIG Global Innovation Gathering e.V., Germany

Internet of Production Foundation

KOLs Key Opinion Leaders

KPIs Key Performance Indicator

MIT Massachusetts Institute of Technology

NGO Non-governmental organisation

OSHW Open Source Hardware
OSH Open Science Hardware
R&D Research & Development
R&I Research & Innovation

RRI Responsible Research and Innovation

SDGs Sustainable Development Goals
SMEs Small and Medium-Sized Enterprise

SEO Search Engine Optimization

TUB Technische Universität Berlin, Germany

VTT Teknologian Tutkimuskeskus VTT OY, Finland

WIF Wikifactory Europe SL, Spain

WP Work Package

WP1 Project Management

WP2 Building the critical making knowledge-base

WP3 Case Action: GENDER

WP4 Case Action: YOUNG TALENTS

WP5 Case Action: OPENNESS

WP6 Evaluation, Impact, Future Implications

WP7 Dissemination, Exploitation and Communication

ZSI Zentrum für Soziale Innovation, Austria

EXECUTIVE SUMMARY

The "Critical Making" project represents a research initiative that had the aim of contributing to the field of knowledge and practice of critical and socially responsible making. This report provides a comprehensive overview of the project's communication, community engagement, exploitation, and dissemination activities, rooted in rigorous scientific research.

Throughout the project, emphasis has been placed on exploring grassroots innovation processes within open spaces like Makerspaces and Fab Labs as well as communities of these spaces as well as individual makers, designers and engineers. A key objective has been to understand how young talents from diverse backgrounds can actively participate in open source innovation and contribute to the development of an inclusive society.

The report showcases the project's milestones, which include extensive community engagement through diverse case actions, scholarly papers that have been published, active participation in academic and popularised conferences, and the creation of comprehensive guides to promote inclusivity in making practices.

By following the strategies and key performance indicators (KPIs) outlined in the Critical Making D7.1 Communication, Engagement, and Dissemination Plan, the project has maintained alignment with its objectives and worked towards delivering meaningful outcomes. The D7.2 Interim report on Critical Making CED activities and exploitation plans has further refined these strategies, ensuring the project's continuous growth and impact.

Achievements have been realised in areas such as academic contributions, community engagement, and the dissemination of project-related information to a wide audience. An analysis of media and communication activities, along with a comprehensive list of academic papers and conference presentations, demonstrates the project's commitment to effectively communicate and disseminate its findings.

This report highlights the Critical Making project's communication, engagement, and dissemination strategies, underscoring its academic rigour and commitment to responsible research and innovation in grassroots innovations. The project has provided valuable guidelines, resources, and frameworks that serve as seeds for communities to build upon, fostering the growth of inclusive, and socially impactful making endeavours. Additionally, the report highlights sustainability efforts of the project, like workshops performed with key target groups and lists exploitation opportunities by all partners.

INTRODUCTION

The "Critical Making" project, through its interdisciplinary and collaborative approach, has worked towards better understanding the potential inherent in the maker movement. This project particularly focused on advancing critical and socially responsible making, employing a mixed-method approach to gather data, analyse it, and actively improve practices. The project has examined grassroots innovation processes in open spaces such as Makerspaces and Fab Labs, showing how these communities offer myriad opportunities for young talents of all genders to contribute towards building an open society through open source innovation.

Through our research, we endeavoured to develop a nuanced understanding of existing innovation and co-design processes taking place in these open spaces, assessing the extent to which they reflect or contradict Responsible Research and Innovation (RRI) principles. Our investigation into these processes has yielded a wealth of knowledge that has the potential to significantly contribute to the broader conversation around RRI.

The research started in 2021, with a focus on building a comprehensive knowledge base and analysing responsibility in the maker movements. We began with a critical review of aspects related to Gender inequalities, Youth, and Openness in the maker community. This was complemented by participatory co-ideation workshops amongst consortium members and invited practitioners.

In the span of 2021-2022, we shifted our focus to designing a critical making framework and planning concrete actions. This phase included

stakeholder consultation to co-design implementable measures specific to gender, young talents, and openness for Critical Making. During this period, we laid the groundwork for the critical making responsibility framework, critical making mentorship program, educational and gender-equality activities.

By 2022-2023, we started using the Framework to support responsible making in the ecosystem, engaging with global maker communities. This stage also witnessed the capacity building and adoption of RRI principles for responsible open hardware projects. Furthermore, practical tools on the Critical Making experience have been launched in June 2023. A series of key deliverables have been shared on Zenodo, including an extensive list of academic papers, project deliverables, data management plans, guidelines and more, all contributing to our ongoing understanding and development of the critical making movement.

The following report details the various ways communication, community engagement, exploitation and dissemination activities took place throughout the project and how they contributed to the research project.

COMMUNICATION, ENGAGEMENT AND DISSEMINATION ACTIVITIES

KPIs and **M**ain **S**trategies

The project strategies and KPIs are set out by the Grant Agreement, and they were reviewed and fleshed out in the Critical Making D7.1 Communication, Engagement, and Dissemination Plan and updated and

reported upon in the D7.2 Interim report on Critical Making CED activities and exploitation plans. In the below Table 1, the KPIs can be found together with a column outlining actual mid-term realisation of the goals, as well as the final report. These will be evaluated and explained in a detailed manner further on in this report, which focuses on strategies to hit the targets, as well as the logic behind potential deviations.

Table 1: KPIs and final status.¹

#	КРІ	Target	Indication June 2022	Indication June 2023
1	Number of Academic Papers	5 papers	6 papers	8 papers
2	Number of scientific issues in journal or book, edited	1 special issue	we are exploring alternative publishing formats that may fit better for reaching the Critical Making target groups than a special issue (e.g. co-created zine or similar)	1 zine

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¹ Full CED data overview can be found here in the annex.

3	Number of Institutions reached, in the EU, globally	200 institutions	Direct reach through partnerships minimum 60, and approx. 50 additional institutions reached via events	227 institutions
4	Number of Social Media and community channels entries	1,000 entries	396 entries	1,013 entries
5	Number of people reached in communication about the project	25,000 people	More than 400,000 people reached	More than 600,000 people reached
6	Number of EU funded projects collaborating with Critical Making	10 projects	11 EU-funded projects	24 EU-funded projects
7	Number of participants involved in the total activities of Critical Making	500 people	More than 900 people	4,472 participants

The project set forth six main objectives, that spanned a range of focal points, including the augmentation of scientific knowledge on Responsible Research and Innovation (RRI) in grassroots innovations, fostering greater gender awareness in maker communities, involving young people in makerspaces to pique their interest in science and innovation, promoting responsibility in the open hardware movement, manifesting grassroots innovations in the RRI discourse, and elaborating guidelines and recommendations for transformative innovation policies.

Since July 2022, we have witnessed substantial progress across a number of key performance indicators (KPIs). Our academic contributions have exceeded initial expectations, with a number of published papers surpassing our initial targets. We have also considered innovative approaches to dissemination, exploring alternative publishing formats that might be more appropriate for reaching our target groups than a traditional special issue.

Our community engagement and outreach initiatives have also seen significant traction. We've formed meaningful connections with a variety of institutions through partnerships and reached an extensive audience via different events and online platforms. Importantly, our project has garnered attention and incited collaboration from several EU-funded projects, demonstrating the resonance of our objectives within the wider scientific community.

In terms of social media and community channel activities, we successfully met the goal of sharing at least 1,000 posts. Leveraging the main channel through the creation of Critical Making accounts, we disseminated content that was readily shareable across partners, participants, and those interested in our focus areas. Even as we navigated technology changes, our new brand identity enabled us to maintain coherent

coverage of diverse activities while echoing critical messages. Through maintaining an omni-channel presence, we were able to harmonise the varied activities under a cohesive umbrella.

Whilst we did face challenges, such as a shift in the Mentoring group's communication platform from Wikifactory to WhatsApp, and variable social media sharing across consortium partners, we adapted and leveraged these changes. In light of Twitter's instability in the final year of our project, we diversified our social media presence, further extending our reach and engagement.

We found a lot of interest from EU funded projects also outside of the SwafS family, so we changed the indicator "Number of SwafS projects collaborating with Critical Making" to "Number of EU funded projects collaborating with Critical Making".

Most notably, the participation in Critical Making activities has been enthusiastic, with the total number of individuals involved exceeding our original aim. This enthusiastic response underscores the relevance and appeal of our project, and further motivates us to deepen our efforts in engaging with diverse communities.

SCIENTIFIC GROUNDING FOR CED ACTIVITIES

The Critical Making project conducted an integrative literature review on gender and on openness in the maker movement, and of course also on Critical Making as the base of the project. The studies utilised the Internet to find the relevant articles for detailed analysis, as well as platforms like Zenodo. The reviews provided a deep and comprehensive understanding of existing knowledge and insights related to the maker movement that complemented the practical understanding of the project teams. By

analysing and synthesising relevant literature, it forms the foundation for informed communications strategies, engagement activities, and effective dissemination of research findings.

For the WP7, findings on Openness were particularly relevant, hence they are summarised here:

The research identified three interpretations of "openness" in the maker movement: open hardware, social inclusiveness, and promotion of entrepreneurship. Open hardware allows design replication and modification. Social inclusiveness focuses on diversity, equity, and access. Openness in entrepreneurship fosters economic growth. Pursuing these concepts simultaneously presents challenges, requiring scrutiny to ensure societal benefits and drive systemic changes.

The maker movement empowers diverse societal groups and transforms consumers into creators. Citizen science projects and creating physical artefacts foster empowerment. Including underrepresented groups brings richness and innovation. The movement influences economic growth through makerspaces as entrepreneurial hotspots. Balancing open innovation and financial motives is crucial. The future of the movement lies in combining perspectives and motivations to address societal needs.

Barriers in maker culture include participant homogeneity, conflicts between openness and personal gains, and resource competition. Remedies involve creating diverse communities, optimising online platforms, and facilitating meeting points. Structural issues like costs and privileged practices can exclude certain groups. Lowering costs, diversifying income streams, and integrating indigenous practices can help combat these challenges.

Cultural barriers limit openness, leading to low participation and alienation. Addressing this requires defining target groups and offering appropriate activities. Inclusive makerspaces consider social and economic capitals, education, norms, and networking. Facilitation includes reproducible parts, popular coding languages, and clear instructions. Makerspace location impacts diversity. Long-term commitment is needed for sustainability and lasting impacts.

Openness in making involves tensions, including economic stances, societal contexts, societal roles, individual vs. collective orientation, and temporal dimensions. Balancing non-commercial and commercial making, adapting to societal contexts, defining the societal role of making, reconciling open sharing and personal gains, and managing short-term vs. long-term commitments are key considerations.

In sum, the literature reviews served as a robust and reliable knowledge base, enabling researchers and practitioners involved in Critical Making to develop targeted communication and engagement approaches that resonate with the current state of research and understanding. It informs decision-making processes and helps identify gaps, challenges, and opportunities in the field. By grounding the research and engagement activities on a sound base of existing literature, the Critical Making study can ensure the relevance, validity, and impact of its communications, engagement, and dissemination efforts.

DEVELOPMENTS AND KEY MILESTONES

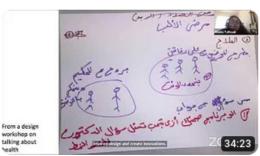
It is tough to choose just a few outstanding efforts of the project's many CED highlights. With the project starting in January 2021, during the Covid-19 pandemic, most of the activities had to be virtual, and the team

created a kick-off conference with a public lecture day and an internal co-design day. All video recordings are shared in a public youtube playlist.²



Exploring Critical Making | Sénamé Koffi Agbodjinou

56 Aufrufe • vor 2 Jahren



Exploring Critical Making | Reem Talhouk

53 Aufrufe • vor 2 Jahren



Exploring Critical Making | Angelika Strohmeyer

79 Aufrufe • vor 2 Jahren



Exploring Critical Making | Intro

137 Aufrufe • vor 2 Jahren

FIGURE: YOUTUBE PLAYLIST WITH RECORDINGS FROM THE PUBLIC KICK-OFF CONFERENCE

During the first year, the project branding was changed to become more playful, representing the Critical Making principles and to attract more makers and makerspaces because as the big academic achievements became very visible, the communication strategy was adopted by the team to reach more practitioners with the results as well.

² https://www.youtube.com/playlist?list=PLUGM9odWOgO6tuX9lZxclugzrec4fKV3N

The first face-to-face event for a general public that was possible for the team was the big re:publica 2022 conference in Berlin, where Regina Sipos and Garnet Hertz had a video recorded talk about the project on stage and the team was also creating hands-on sessions with the educational flashlight and the spider tool³ for self-reflection. It was a big highlight for the project team to actually be able to meet in person just a few weeks before that conference and then during the conference and get feedback for the work done until that point from many excited participants.



FIGURE: TALK AT RE:PUBLICA 2022

Major conference highlights throughout the project include the presentation at the Remote Chaos Communication Experience (rc3) that reached more than one thousand views combined in the platforms and the best paper presentation at the Fab Fest Bali by Regina Sipos.

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³https://criticalmakingeu.files.wordpress.com/2023/06/reflection-tool-a4-cmykprint-01.jp

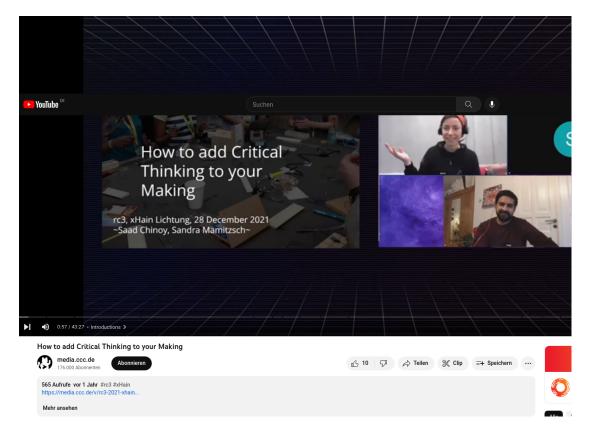


FIGURE: SCREENSHOT OF THE VIDEO RECORDING FROM THE RC3 TALK



FIGURE: REGINA SIPOS ON STAGE AT FABFEST BALI FOR THE BEST PAPER AWARD DISCUSSION

On 24th November 2021 the team achieved an important communication impact: the Austrian newspaper "Der Standard" featured a full page about the concept of makerspaces, creativity and critical making.



FIGURE: PHOTO OF THE FULL PAGE FEATURE IN "DER STANDARD"

Finally, the project outputs and results created in the last phase of the project include many printable materials that are distributed to makerspaces and educational institutions. A Zine⁴ was developed as a

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⁴ https://zenodo.org/record/7966847

printed material that summarises the Critical Making programme in an engaging and relevant way for the communities and fablabs involved and beyond.



FIGURE: CRITICAL MAKING FINAL ZINE

A big achievement within the results and exploitation work is the Critical Making game⁵ that translates the Critical Making framework to the maker target group is the latest addition to the activities.

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⁵ https://play.criticalmaking.eu/



FIGURE: SCREENSHOT OF THE CRITICAL MAKING GAME

Top Level Breakdown of Media & Communications activities

Table 2: Total Estimated Reach

Category	Estimated number of people reached, RP1	Estimated number of people reached, RP2	Total Estimated Reach
Websites	35.731	22.302	58.033
Press releases	0		0
Video/film	2.192	972	3.164
Scientific papers	2.943	372	3.316
Non-scientific publications	50.000	62.000	112.000
Social Media	65.558	51.849	117.407
Flyers and Brochures	0	1.100	1.100

Total	439.122	170.064	609.186
Other - Newsletters, Podcast	282.698	31.468	314.166

COMMUNITY ENGAGEMENT

Introducing community empowerment for RRI frameworks

One of the key targets of the Critical Making project was to make the potential of grassroots innovations for societal impact visible in the broader RRI discussions. According to previous research and our own observations, existing RRI approaches more or less fail to address the particularities of innovation activities occurring outside established research institutions and companies. Furthermore, as the concept of RRI is originally developed for the purposes of the EU research and innovation funding and policies, it has been criticised for being Euro-centric and failing to grasp the innovations occurring in the grassroots innovations networks and communities of the Global South. One particular gap in the mainstream RRI approach identified by the Critical Making consortium team in the beginning of the project was the weak integration of community impacts on the existing RRI keys framework. As the maker community clearly appears to be an important strength for makers and making has been identified as an empowering factor in the literature (e.g. Tanenbaum et al. 2013; Dreessen, Schepers & Leen 2016), we decided to pay particular attention during the evaluation of our case interventions on the community empowerment aspects as a particular RRI dimension. Following from that, we suggested in our evaluation framework (D6.1) that community empowerment should become a new RRI key when dealing with grassroots innovations projects.

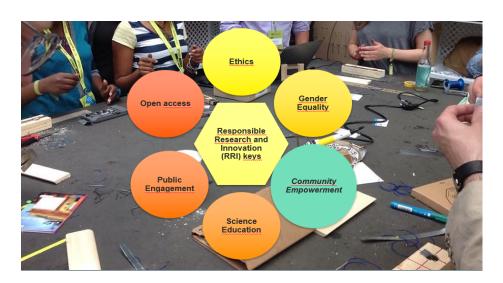


FIGURE: SUGGESTION FOR COMMUNITY EMPOWERMENT AS A NEW RRI KEY

We presented the first idea of the concept and different dimensions of community empowerment key (see figure below) for the RRI research community in the EU_SPRI June 2022 conference. The idea received support, but also warnings about the contested connotations of the concept of community empowerment if understood as someone external empowering communities.

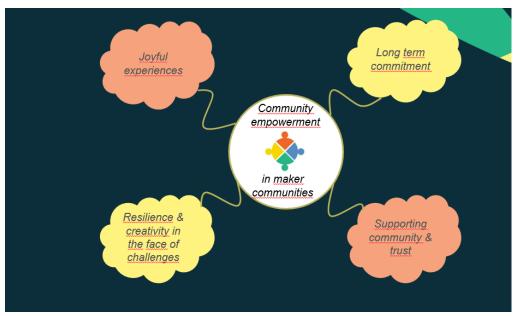


FIGURE: DIFFERENT FACTORS OF COMMUNITY EMPOWERMENT: 1ST PHASE

Testing the idea with RRI and participatory action research communities

To elaborate the idea of the Community empowerment RRI key, we conducted a literature review of community empowerment research and based on that designed the entry and exit group interviews of the 15 participants of the Critical Making mentoring programme so that the discussions would bring up community impacts, the role of the needs of communities, community engagement and tensions in community engagement from multiple viewpoints. At this point, before collecting any data, we also presented our idea in the EU-SPRI conference, in June 2022. Our first attempt to elaborate the community empowerment key based on empirical data of entry interviews was presented for the research community in October and November 2022 as part of two different conferences, first in STN scientific conference arranged by the Strategic Research Council of Finland, and next in the scientific YHYS colloquium. In these conferences, the audience consisted mainly of experts of participatory action research, environmental governance and political ecology. Their feedback strengthened our understanding of the contested nature of the wording of community empowerment in these research contexts and the need to clarify clearly that community empowerment does not refer to external researchers or innovators to empower communities. On the other hand, to bring up the empowering impacts of community-driven innovations in making as expressed by the mentoring programme participants, received positive interest and finally resulted in contacts of University of Jyväskylä in Finland for adding making as an example in their open university course about planetary wellbeing.

Openness of making & community empowerment in the Global South

The next step in the elaboration of the Community empowerment RRI key was made in June 2023 when we presented our final analysis of the Critical Making mentoring programme evaluation data in the EU SPRI 2023 research conference. In that conference, we could propose a more nuanced account of how to identify and address the community empowerment impacts of making. Our analysis focuses on the projects of the Global South which differs in terms of community impacts in many ways from the Global North. Furthermore, instead of identifying general measurements for a community empowerment RRI key, we provided for making a community a framework to identify the different dimensions of empowerment that openness of making as a social innovation can promote (figure below). Together with the other tools developed in the Critical Making project for the responsibility evaluation of making, including the Critical Making Reflection Tool and Critical Making Game, this framework can help in communicating and reflecting the community impacts of maker projects. Due to the lack of time within the 2,5 years research project, as we received the final research data only in April 2023, the elaboration of the more general RRI key concept will still continue.

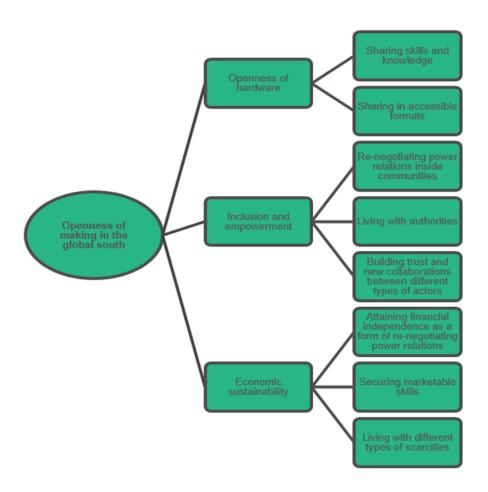


FIGURE: FRAMEWORK TO IDENTIFY COMMUNITY EMPOWERMENT FACTORS OF OPENNESS IN MAKING

Unboxing - A Critical Making Game

As part of our activities in the Critical Making programme, we have developed an engaging online game that encourages reflection on the core values of Critical Making. The game serves as an implementation of the Critical Making reflexive framework, providing a unique and enjoyable experience for makers and makerspace managers.

The game serves as a platform to delve into the six core values of Critical Making as explored and developed in WP2. The production was outsourced and contracted to Julieta Arancia that brought it to life, through Consortium partner VTT. It promotes openness and collaboration by encouraging the sharing of skills and knowledge among participants. It emphasises the importance of local engagement, adapting making practices to specific socio-cultural contexts while fostering connections within global networks.

In line with the social dimension of Critical Making, the game reflects on the diverse realities of those involved and addresses societal challenges and needs. It encourages players to critically examine underlying power structures and consider the ethical implications of their work. The ultimate goal is to make a tangible impact and contribute to building a sustainable future.

While the game retains the joy and excitement of making, it adds a deeper layer of meaning by emphasising the purposeful nature of Critical Making. Each action and decision made within the game is driven by specific individual or social objectives, adding depth and significance to the making process. Through this online game, we aim to engage and empower young learners in the exploration of Critical Making principles. By navigating through reflexive questions and interactive scenarios, participants develop critical thinking skills, gain insights into the ethical dimensions of making, and become active contributors to positive change.

WP3: Gender Inclusivity

Raising awareness for gender imbalances in making was one of the main objectives of the Critical Making project. With this aim, reaching out to diverse makers across the globe and triggering communications on how

to address gender imbalances started early in the project. An initial kick-off meeting related to gender-inclusive making hosted 11 makers and practitioners and was subsequently followed by an intense co-design process with 12 makers from different parts of the world which had several communication and dissemination tools and formats as a result. All the created material was shared not only on the Critical Making website but also actively disseminated via social media and in the WIF community and in Conferences and Maker Gatherings. In the following we will introduce some of the developed formats that aim to address gender-imbalances in making:

Inspirational Stories

One highlight of the work on gender inclusivity are the "Inspirational Stories on gender-inclusive making". As role models are key to inspiring people outside of the mainstream to get involved in making the Critical Making project conducted 16 interviews with female and nonbinary makers from around the world in 2022. The result was a series of "Inspirational Stories of Gender-Inclusive Making." These stories provide valuable insights into the pathways of makers and how they overcame gender and intersecting inequalities in their respective socio-cultural contexts. From independent artists in South Africa to social entrepreneurs in Brazil, the interviews reveal the struggles and triumphs of makers from many different backgrounds. These stories have been perceived by other maker spaces as emotional triggers to get involved in reflections about gender-imbalances in making, motivated others to tell their own personal stories how they overcame barriers to get involved in making and helped to better understand challenges that people outside of the mainstream maker group can have when entering the community.

GUIDE: An Introduction to Inclusive Making

This foundational document offers a thorough examination of inclusivity within the context of the Maker Movement. It introduces the ethos of "Making for All", advocating for the elimination of barriers and the promotion of accessibility in Maker Spaces. In this piece, we delve into various aspects, such as the making process, the role of the maker, societal impacts, and the potential of 'making' as a conduit for inclusive creativity, learning, and innovation. We present a range of strategies to foster inclusion, underscoring the importance of empathy and comprehension, and the value of encompassing diverse perspectives and abilities in Maker Spaces. This document paves the way for an understanding of how we can encourage creativity, co-creation, and active participation to nurture an environment where all participants feel acknowledged and valued.

GUIDE: Creating an Inclusive and Welcoming Maker Space

This deliverable is a comprehensive guide that provides practical strategies and suggestions for designing Maker Spaces that are inclusive and welcoming. Developed in collaboration with our Critical Making team, the guide details real-world examples and best practices for creating inclusive Maker Spaces. The guide encompasses a variety of topics, including:

- Fundamental principles of inclusion in a Maker Space and their implementation.
- The significance of standing against discrimination and the enforcement of a transparent Code of Conduct (CoC).
- Solutions to overcome physical barriers in the Maker Space to ensure accessibility for all individuals, regardless of physical abilities.

- Strategies for engaging underrepresented groups, cultivating a diverse and inclusive community, and creating an ambiance where all members feel welcome and integral to the community.
- Recommendations on appropriate language use, offering mentorship to newcomers, and providing financial aid and resources for those who may not be able to afford them.
- Advice on planning events and scheduling to cater to various group needs and limitations.

The guide together with the introduction to inclusive making and the inspirational stories was shared with 6 makerspaces and one makerspace network from Africa, Europe, and South-East-Asia and discussed locally with members of the makerspaces. The feedback from these discussions not only helped to improve the documents but also showed how impactful the reflection on these materials can be. More of this is documented and disseminated in an forthcoming academic publication named: "How to turn makerspaces more gender-inclusive: internationally co-created recommendations for gender-inclusive making.", which is presented in D3.3. of this project.

Caretaker Inclusive Workshop Format Descriptions

For caretakers of all genders who engage in both paid work and care work, being engaged in a first (the wage work) and a second shift (the care work), as Arlie Russell Hochschild calls it, can make it difficult to engage in other activities, even if they are related to educational purposes. This structural imbalance affects mothers the most and might lead to an exclusion of caretakers from making events.

This was the starting point for three makerspaces to work on caretaker inclusive event formats that allow caretakers and their kids to take part in

making. The work of the three spaces was supported by the Critical Making project team. HONF and the XXLab, created a series of three workshops called Mission X, where mothers, nonbinary adults, and children (24 overall) created their individual maker projects next to each other using everyday life materials. The results of the workshops were then presented in an exhibition and a school-partnering project involving input on astronomy. Mz* Baltazar's Laboratory, tried out different formats for engaging with caretakers and children in making. This engaged 20 participants in doing a kid's mud battery workshop in a public space, trying to collectivise the organisation of childcare amongst their makerspace community for organising an exhibition, and facilitating a workshop for artists side-by-side with engaging children. Robisz.to, offered childcare with a dedicated carer in a separate room at their space when organising their women-centred training workshops on maker skills called "maker women" and engaged 12 participants.

The set-up of these different projects happened in a manner adapted to the specific socio-cultural context of the makerspaces in the respective countries. This responsiveness to the local context is a key element of Critical Making. The participants' feedback to the offered events and possibilities were overwhelmingly positive. And the formats will be shared together with the other material on gender inclusiveness on the Critical Making website.

WP4: Youth

Youth Education - Podcast Interview Series

As part of our activities, we conducted a series of interviews focused on youth education in maker spaces, which were featured in the Critical

Making⁶ community blog hosted on the Wikifactory platform. These interviews were also made available as podcasts, providing a valuable resource for understanding the experiences and insights of individuals involved in the maker movement.



Filling in the Gaps in Iraq

| 23rd May 2023

This article was adapted from our recent podcast series on youth education in maker spaces. Listen to the episode with Nawres Arif from ScienceCamp HERE. We sat down to talk with Nawres Arif this past Thursday to discuss his maker program in Iraq. Nawres is a trained pharmacist but considers himself to be more than that. He is also an artist, designer, and robot maker. In around 2003, Nawres



FabLab Nepal: Empowering Communities Through Technological Access

This article was adapted from our recent podcast series on youth education in maker spaces. Listen to the episode with Pradita Pradhan from FabLab Nepal HERE. In today's fast-paced world, technology has become an integral part of our lives. From smartphones to smart homes, technology has transformed the way w



SparkleLab: Revolutionising STEM Education in the **Philippines**

king via @melanie | 25th Apr 2023

This article was adapted from our recent podcast series on youth education in maker spaces. Listen to the episode with Rosanna Lopez from SparkleLab HERE. Imagine a welcoming and imaginative space where floors resemble grass and trees serve as tables. A place where kids come together to design, create, and



Noni Hub: Equipping Youths to Prototype for Local Needs

This article was adapted from our recent podcast series on youth education in maker spaces. Listen to the episode with Mustapha Dauda from Noni Hub HERE. Equipping young people with technological and entrepreneurial skills to solve local community problems is the mandate of one particular makerspace in the Northern

region of Ghana. Noni Hub, located in the town of Wa, is a budding innovation that

FIGURE: BLOG POSTS OF THE STORIES FROM THE EDUCATION PODCAST.

The articles and podcasts covered a range of topics, including the experiences of Nawres Arif and his maker program in Iraq, the community-based initiatives of FabLab Nepal in empowering communities through technological access, the innovative approaches of SparkleLab in revolutionising STEM education in the Philippines, and the technological and entrepreneurial skills development at Noni Hub in Ghana.

⁶ https://wikifactory.com/+criticalmaking/stories

By sharing these stories and perspectives, we aimed to shed light on the diverse ways in which maker spaces and education are making a positive impact on youth and communities worldwide. The inclusion of these resources in the final report will provide readers with a deeper understanding of the activities and achievements of Critical Making in the realm of youth education.

Critical Making in Education Manifesto

As part of the Youth Education track in the Critical Making program, we have developed the Critical Making in Education Manifesto⁷. This visual asset encapsulates the values and principles that guide our approach to education and making, serving as a guiding framework for educators, students, and makers in the realm of education.

The Critical Making in Education Manifesto represents our commitment to fostering critical thinking, collaboration, inclusivity, and sustainability within the maker education community. It serves as an inspiring visual that can be prominently displayed in fablabs and other centres of maker education, reinforcing the core tenets of Critical Making.

⁷ manifesto.criticalmaking.eu



As Critical Makers

we provide **support**, **not services**. we **ask questions**.

we find and create solutions.

we work together.

we learn with and from each other.

we use making to understand.

we strive to be inclusive.

we **share**.

we seek **meaningful** and **appropriate** use of tech.

we **create transparency**. we **repair, reuse, recycle and repurpose**.

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

beta version (2023-05-23) check out the latest version at manifesto.criticalmaking.eu

FIGURE: CRITICAL MAKING IN EDUCATION MANIFESTO

The manifesto embodies key principles such as providing support, encouraging questioning, finding and creating solutions, fostering collaborative work, learning from each other, using making to understand, striving to be inclusive, embracing open sharing, seeking meaningful and

appropriate use of technology, promoting transparency, and emphasising sustainability through repair, reuse, recycling, and repurposing.

Through this manifesto, we aim to inspire educators and learners to embrace the spirit of Critical Making and apply these principles in their educational practices. By visually representing these principles in their education spaces as a poster, we reinforce the importance of critical thinking, collaboration, inclusivity, and sustainability in the maker education community.

Critical Making Box 'Light is Power'

One of the engaging activities within the Critical Making activities for Youth Education is the development of the Critical Making Box, named "Light is Power." This activity allows young participants to build their own flashlight while exploring the bright and dark sides of technology. The Critical Making Flashlight was first introduced at re:publica 2022 in a workshop, then used in several encounters throughout the year which are reported on in the D4.2 of this project. The final Critical Making Box was then showcased at the re:publica conference in 2023 and distributed to partners, makerspaces, and fablabs across Europe and project partners worldwide.

The flashlight activity serves as an interactive learning experience that promotes critical thinking and hands-on engagement. By assembling the flashlight using laser-cut parts and copper tape, young learners not only gain practical skills but also develop an understanding of the principles of Critical Making. The activity encourages participants to think critically about technology and its impact on society.

Through this activity, young learners have the opportunity to explore the concepts of Critical Making and understand the importance of

questioning, problem-solving, and collaboration. By delving into the process of building the flashlight, participants gain insights into the design and functionality of technology while considering its ethical and social implications. It empowers young individuals to become critical thinkers and creators, equipping them with the necessary skills to navigate the increasingly complex technological landscape.



FIGURE: PHOTOGRAPH OF THE CRITICAL MAKING BOX

As part of the project's sustainability efforts, the box will be recreated by 4 Fablabs in India, Kenya, Nigeria and Zimbabwe and introduced to children and educators in these countries. The team will gain insights into reproducibility of the kit. All resources are available open source in the github repository.⁸

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⁸ https://github.com/vektorious/cm-flashlight

WP5: Openness

Critical Making Mentoring Programme

In 2022, we launched the Critical Making Mentorship Programme, inviting makers and innovators globally to partake in our mission of shaping a sustainable future of making. This initiative focused on fostering innovation through principles of inclusivity, openness, and reflexivity.

The programme, spanning over nine months, offered our mentees expert guidance and insights from a distinguished group of mentors. Our mentors touched upon key tenets of the critical making framework in the areas of open science hardware, social innovation, and environmental sustainability. The mentors, drawn from diverse and innovative organisations, imparted their knowledge and experience, leading the mentees through their journey of discovery and application in the realm of responsible and critical making.

The mentorship journey culminated in an engaging demo week, where our mentees showcased their understanding of the critical making paradigm and shared the actionable insights they developed for their individual projects. The documentation of all the mentees' projects is accessible for public viewing, reflecting our commitment to openness and knowledge sharing.

A series of workshops was conducted as part of the programme, each focusing on a different aspect of the critical making process. The workshops covered a range of topics, from creating products that solve real-world problems to designing for continuity and integrating local knowledge.

Two of our mentee projects that stood out were the 'Ecological Fibres for Textile' and the 'Automatic H20 Dispenser'. The former addresses the increasing demand for eco-friendly textile products using the agricultural waste from Banana trees. In contrast, the latter is a low-cost, infrared sensor-based water dispenser that promotes hand hygiene in schools within refugee settlements. These projects exemplify the innovative and responsible making practices that our mentorship programme sought to encourage and foster.

Our mentors for the 2022 session included distinguished individuals from various organisations:

- Saad Chinoy, Co-Founder of SpudnikLab
- Bahar Kumar, Executive Director of Impact Hub Kathmandu
- Aravinth Panch, Co-Director of DreamSpace Academy
- Georgia Nicolau, Founder of Instituto Procomum
- Emilio Velis, Executive Director of the Appropedia Foundation

The rich diversity and the inclusive nature of the programme was evident in the global participation of mentees, representing a variety of backgrounds and geographical locations.

The mentoring programme was detailed in D5.2 - Critical Making Open Hardware Programme, including lessons learned and communication strategy around the programme.

In conclusion, the Critical Making Mentorship Programme has successfully facilitated the growth of a new generation of critical makers, enabling them to shape a sustainable future of making while upholding the principles of inclusivity, openness, and reflexivity.

The videos from the Mentoring programme are available on YouTube with the following titles:

- Critical Making Mentoring Programme Kick-off event⁹
- Make Things that Make Sense Saad Chinoy¹⁰
- Share How You Make It Emílio Velis¹¹
- Integrate Local Knowledge Georgia Nicolau¹²
- Build for continuity Bahar Kumar¹³
- Ecosystem Services Aravinth Panch¹⁴

Videos on the results from the mentoring programme, with mentees presenting their prototypes are available as a YouTube playlist¹⁵.

ACADEMIC PAPERS & CONFERENCES

The research focus of the Critical Making project was on the exploration of responsible innovation processes in the global maker community. In particular, aspects of gender and inclusiveness, openness, and youth education were at the centre of our participatory research approach. This participatory research methodology enabled practical output formats and alternative publishing formats, next to scientific publications.

The project's scientific outcomes on the various aspects of Critical Making were summarised in a collection of academic publications that were presented at global conferences and published in academic outlets. The

⁹ https://www.youtube.com/watch?v=OOx9PFOzgxQ

¹⁰ https://www.youtube.com/watch?v=oVHZ9hIhIvY

¹¹ https://www.youtube.com/watch?v=IUZ b ps io

¹² https://www.youtube.com/watch?v=oEvpPfRWkgs

¹³ https://www.youtube.com/watch?v=eQyPO3y3YIM

¹⁴ https://www.youtube.com/watch?v=0PgNStchrrc

¹⁵ https://www.youtube.com/playlist?list=PLUGM9odWOqO4PrfQp0AxtKPNU_dIHNLI5

recognition for Best Academic Paper at the FabFest Bali in 2022 for the paper by Regina Sipos from TUB, 'Critical Making Responsibility Framework. Extending an Academic Proposal to Support Reflexivity in Maker Communities' was a key milestone for the project's academic objectives, as well as for the significance of such a relevant Maker community that was present that proved relevance in our work by a high degree of representation and concentration of people engaged in making at large. This uptake at valuable events is what will help Critical Making research assets and ongoing research by the academic partners involved to engage these communities with their lines of research through their Social Media Channels and accrue on the valuable following to grow and inspire academics to build upon our research. In being grounded on grassroots and community, the research outcomes of Critical Making project should also expect to continue to gather interest from relevant academia given the difficulty to connect with societal and civic actors that academia usually faces. Please refer to the Deliverable 7.4 Special Issue on Critical Making for a detailed overview of the project's scientific contributions and academic conference contributions that featured the project with an abstract.

DIGITAL COMMUNICATION STRATEGY & INSIGHTS

The project's digital communication strategy aimed to engage maker communities and partners, share project updates, and raise awareness about the Critical Making approach in makerspaces and open source hardware. An evergreen content strategy was developed around themes such as project announcements, event announcements, blog posts, partner activities, and educational material. The project's official Twitter

account was largely used to share thematic content.

To maintain a strong social media presence, a consistent visual identity and tone of voice were maintained for all social media posts.

Recognizing the challenges of organic reach on social media platforms, a social media amplification strategy was implemented to enhance engagement. Consortium partners played a crucial role in amplifying the reach of Critical Making-related posts by sharing them with their online communities. Scientific contributions by consortium partners to conferences and academic journals were also promoted.

Specific content tactics were tailored to the three dimensions of the project – gender inclusiveness, youth education, and openness.

Insightful interviews conducted on youth education initiatives in maker spaces in the Global South were adapted into a series of blog articles, podcasts, and social media postings. Quote images from interviewees were shared on the project's Twitter account to encourage readers to click through to the respective blog articles. A similar approach was taken for the gender inclusive dimension of the project, where blog articles featuring 6 makers leading inclusive initiatives in their organisations were adapted into social media postings with quote images from the makers themselves. These curated social media postings with quotes performed well in terms of reach and engagement.

For the openness dimension, social media content was created to invite the maker community to join the Critical Making Mentoring Programme's kick-off event and workshops led by mentors. Posts about the mentors' workshops gained good reach. Additionally, a week-long agenda of Twitter activities was prepared to raise awareness about the mentorship program's demo week and key demo talk events. Throughout the demo

week, engaging videos featuring the mentees' prototypes and their perspectives towards critical making were shared. Post-event posts on the highlights of the demo talks featuring the mentees' presentations were also shared. Curated visuals and social media copies were provided to partners in a social media kit to assist them in sharing about the demo week on their respective platforms. A concerted approach among partners was crucial to unify communication efforts during this time-sensitive social media campaign.

Examples of Top Performing Twitter Posts



FIGURES: TWITTER POST ON YOUTH EDUCATION IN MAKERSPACES



TWITTER POST ON GENDER INCLUSIVE MAKING

EVENTS

Having started during the Covid-19 years, the project mostly had remote event participations in the beginning, only to participate in bigger live events in 2022. During the remote presentations, co-creation events and workshops important feedback was gathered. A detailed list of event participation can be found in the annex. In this section we highlight a few most relevant events that happened in the second half of the project

re:publica - Conference & festival in Berlin

In Berlin, in June 2022, it was for the first time possible again to present live at a big conference with several thousand visitors. Critical Making was represented with a stage talk, with the hands-on Spotlight workshop from the education case action and a reflection & feedback session around the spider tool used in the openness case action. It was an invaluable experience to meet Garnet Hertz from the Advisory Board of the project face-to-face and be able to discuss project ambitions and results more deeply. Through the participation in the re:publica makerspace, hosted by project partner GIG, deeper connections to the international and local makers were formed.

Fab Fest Bali

Another example of face-to-face events that led to many good connections and partnerships in the aftermath was the Fab City Summit and Bali Fab Fest. At the global Fablab community conference, the project won the best academic paper awards and was represented on the main stage and in the livestream channel by Regina Sipos from TUB. Through the best paper awards and presentations, more researchers working in

and with maker communities have been informed about the projects' results.

Women in Engineering

As an example for remote events, we want to highlight the roundtable hosted in connection with International Women's Day 2023. The Critical Making gender case action organised it to spotlight women engineers discussing challenges and opportunities in their field. Hosted by our partners Christina Rebel (Wikifactory) and Teresa Schaefer (ZSI), 4 women engineers from around the world gathered online. They explored issues like gender bias, lack of role models, and societal pressures. Proposed solutions involved increased family support, policy alterations, and highlighting successful female engineers. Globally, women constitute 16.5% of engineers, though this is gradually improving. Despite the progress, there's more work to do, calling for more inclusivity, combating gender bias, and encouraging initiatives like the Critical Making project. More than 100 participants registered and 30 actively attended.

Final events: Critical Making Sustainability workshop

GIG celebrating Critical Makers

As part of the annual gathering of makers from around the world, on 3 June 2023, GIG hosted the event "Celebrating Critical Makers". It held a sustainability workshop with invited experts and community members. Together with project partners, the results of the 2.5-year project were presented, and participants were encouraged to reproduce the results and create workshops or programs with open-source materials. Several maker workshops have been held throughout the day to connect the project to further initiatives. With around 40 participants from

makerspaces worldwide, the workshops and learning exchange had a wide escape: from pilates to economic sustainability of makerspaces, from networks of makerspaces to support Ukrainian makerspaces to braille readers prototypes, to African Innovation policies meet-ups, and from makerspace business model exchanges to circular economy networks. The day was an openness and collective learning experience to develop the makerspaces ecosystems further worldwide.

Public re:publica 2023 Workshop

In the workshop during re:publica 2023, three of our colleagues gave some insights into the Critical Making approach and let participants experience it first hand. While building a small flashlight together with participants, they explained concepts of Critical Making. One year after the first Critical Making in Education workshop at re:publica 2022, they shared the insights gained and challenges faced. The manifesto for Critical Making in education, the Critical Making game and the Spotlight boxes were exhibited in the GIG makerspace throughout the three days of the event and sparked conversations about the project, the results and potential applications of results in different areas, like vocational training.

Spotlight for Critical Making revisited – still an approach towards better education?

Alexander Kutschera, Ricardo Ruiz Freire, Susanne Grunewald

Info
How can we prepare the youth for future challenges? Let's shine some light on Critical Making for education. In this workshop, we will build a small flashlight, and you can experience the concepts of Critical Making first hand. One year after our first workshop, we want to share experiences and challenges we faced.

#Sustainable Paradise #Civic Engagement

Lernen & Wissen

Makerspace
06.06.2023 16:15 – 17:15

Workshop
Englisch

FIGURE: SCREENSHOT OF THE RE:PUBLICA 2023 WORKSHOP ANNOUNCEMENT

Press Mentions & Engagements

There have been several notable press mentions that have highlighted the significance of the project and its contributions to the manufacturing and maker ecosystem. These mentions not only shed light on the goals and outcomes of Critical Making but also underscore the importance of inclusive and collaborative approaches to production and innovation. Below are some key press mentions that have captured the essence of the project:

- 1. The Purchaser Interview (08/10/2022): In an insightful interview with The Purchaser, co-founder of consortium partner Wikifactory, Christina Rebel discussed the evolution of manufacturing through innovation, collaboration, and the Internet of Production. ¹⁶ Critical Making was mentioned as a project that explores a future for production that is more inclusive and open, while also aiming to engage youth. The interview delved into the role of Wikifactory as a collaborative manufacturing platform and its impact on efficiency, productivity, and sustainability in the industry.
- 2. Authority Magazine Interview (24/11/2022): Christina Rebel, co-founder of Wikifactory, was interviewed by Candice Georgiadis for Authority Magazine.¹⁷ The interview focused on Rebel's work at Wikifactory, with an emphasis on digital fabrication, social innovation, and sustainability. Rebel highlighted the growth of the Wikifactory community and its contribution to the Critical Making program, which promotes diversity and inclusion in hardware

https://medium.com/authority-magazine/inspirational-women-in-stem-and-tech-christin a-rebel-of-wikifactory-on-the-5-leadership-lessons-351be6d30cf3 (Accessed last on 26 June 2023)

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¹⁶ https://www.thepurchasermagazine.com/magazine/the-purchaser-issue-11/ (Accessed last on 26 June 2023)

- development. The interview underscored the value of collaboration, the need for diversity in STEM industries, and the vision of a future where universal access to design and fabrication tools empowers inclusive and resilient communities.
- 3. Die Presse News Coverage (25/09/2022): Barbara Kieslinger from the Centre for Social Innovation (ZSI) was featured in Die Presse, discussing the diversity of the Maker scene. The coverage highlighted the evolution of the Maker culture, characterised by communal spaces like Maker Spaces, Fab Labs, and Hacker Spaces equipped with digital tools. The article emphasised the collaborative nature of the Maker movement, where individuals collaborate, tinker with existing devices, and share their designs online. This coverage showcased the significance of the Maker movement in fostering innovation and community building.

These press mentions have played a role in raising awareness about Critical Making and its objectives in the media. They have highlighted the importance of inclusive and open approaches to manufacturing, the value of collaboration and diversity in the STEM industries, and the potential of the Maker movement for innovation and community engagement. The press coverage has provided valuable exposure to the Critical Making program and its efforts to transform the maker landscape.

PRINTABLE MATERIALS: FLYERS, POSTERS, BROCHURES

Many print materials and printable materials have been created in the last months of the project to disseminate the results of the research activities to maker communities. For these purposes, new poster templates, brochure designs and stickers have been created, resulting in more

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¹⁸ https://www.diepresse.com/6193882/macher-macker-und-mentoring (Accessed last on 26 June 2023)

playful interpretations of the projects' design identity. The printed material has been distributed at the re:publica Berlin conference 2023, the GIG workshop day "Celebrating Critical Makers" and through the Critical Making spotlight boxes.



FIGURE: DESIGN OF THE SPOTLIGHT STICKER

We want to highlight the Critical Making Manifesto posters, which resulted in a lot of interested participants of the events interacting with project representatives and adapting the principles even outside of maker education to other types of education areas, like vocational training. Feedback during the events also led to small changes in the text of the principles shared in the manifesto.



FIGURE: PHOTOGRAPH OF PRINTED MATERIALS

EXPLOITATION, IMPACT, SUSTAINABILITY

Making Tools & Research Available

Recognising the existing hosting of Critical Making projects, stories, and resources on Wikifactory, it is a logical choice to continue utilising this platform for safeguarding and ensuring ongoing exploitation. Wikifactory, as a leading collaborative innovation platform for open-source projects, provides a conducive environment for the long-term availability and utilisation of Critical Making outputs. By hosting on Wikifactory, we can take advantage of its free hosting for open-source projects indefinitely, benefiting from the platform's growing community of over 150,000

designers, engineers, and innovators worldwide. By utilising Wikifactory's infrastructure, we can leverage its existing resources and network to support the ongoing exploitation of Critical Making research.

To support its organic engagement into the future, we will be implementing various strategies to enhance the discoverability and relevance of Critical Making content within the platform. A key element of our approach is to appropriately tag all Critical Making content with relevant topic hashtags. By employing this tagging system, we ensure that Wikifactory users can easily find and engage with the content aligned with their specific interests. Moreover, Wikifactory's Topics Pages provide a dedicated space for users to explore content related to their areas of focus, facilitating the discovery and dissemination of Critical Making research.



FIGURE: WORDLE CLOUD OF HASHTAGS

By strategically implementing internal linking structures, we not only promote content discoverability but also aim to increase the domain authority of Critical Making-related topics within the Wikifactory platform.

This approach includes optimising the content for search engines and implementing Search Engine Optimization (SEO) techniques to enhance search rankings. By accumulating search ranking points and improving visibility, we expect to attract a significant portion of the global search traffic, which currently accounts for 92.96% of all searches conducted.

To further highlight and curate Critical Making content, we will create three curated topic pages on Wikifactory. These dedicated pages will aggregate relevant Projects, Stories, and Forum threads that are tagged with the respective topics: #gender, #makereducation, and #responsibleinnovation. By pinning a blog story at the top of each page, we provide an engaging introduction and a clear call to action, inviting users to explore, contribute, and participate in these areas. This approach ensures that the content remains dynamic and actively encourages ongoing engagement with the Critical Making initiatives.

Through the strategic utilisation of curated topic pages, we will also be able to weave together the diverse range of Critical Making outputs, both hosted on Wikifactory and available externally. The curated pages will serve as comprehensive resources that bridge the gap between the platform-hosted content and the wider landscape of research papers, deliverables, and related resources. By collating and organising the available information, these topic pages will provide users with a centralised location to discover, explore, and contribute to the ongoing discourse surrounding Critical Making.

As part of our efforts to engage stakeholders and express gratitude for their contributions, we organised a wrap-up engagement blast via email and social mention where we will extend our appreciation to all stakeholders involved and encourage them to share the curated topic pages with their communities. By leveraging their networks and social

media presence, we seek to expand the reach of Critical Making content and foster ongoing engagement with the broader community.

This Social Media kit will be shared during the month of July and includes posts for the partners to share in their channels to celebrate the ending of the EU funded project.

Drawing from a workshop held with Consortium partners, we also identified the Key Opinion Leaders (KOLs) and practitioners at large that we believe stood to benefit from the research programme's outcomes. By establishing connections with these KOLs and influencers, we aim to inform them about the availability of our open knowledge resources on Wikifactory. We believe that their expertise and networks can greatly benefit from the insights and materials generated through Critical Making. Through targeted communication and collaboration, we seek to foster meaningful engagement and utilisation of Critical Making outputs, empowering KOLs and influencers to leverage the open knowledge resources for their own projects, initiatives, and educational endeavours.

In addition, we have developed a comprehensive social media content schedule to ensure the consistent promotion of Critical Making across various channels. Through strategic and targeted social media posts, community engagement activities, and the utilisation of relevant hashtags, we will maintain a continuous presence within relevant communities and increase awareness of Critical Making initiatives among diverse audiences.

Through the strategic hosting of Critical Making outputs on Wikifactory and the Open Source approach of the project, we are confident that the research findings, resources, and tools will continue to be accessible, discoverable, and influential long after the research program concludes. As expounded below, we will invite and encourage individuals and organisations to actively contribute to the curated topic pages, initiate

their own projects, share their stories, and engage with the wider community. Through the continued hosting, curation, and integration of external resources on Wikifactory, we ensure that Critical Making remains a vibrant and dynamic repository of knowledge, insights, and inspiration for the collaborative innovation community. This approach facilitates ongoing exploitation, enables knowledge sharing, and fosters continued engagement with Critical Making within the Wikifactory community and beyond.

DIGITAL DISSEMINATION OF PROJECT'S RESULTS

Upon the completion of the project, a comprehensive digital dissemination plan has been developed to effectively disseminate the project's deliverables to industry, funding organisations, and civil society. The plan aims to provide application-oriented guidelines to practitioners, raise awareness about responsibility in maker spaces, and share the experiences and stories of participants to promote Critical Making in their respective environments. The campaign is scheduled to run throughout the month of July 2023.

The key deliverables to be promoted are thematically segmented and include the Critical Making Toolkit, along with various content related to the three Critical Making themes, such as the guidelines for Critical Making in education¹⁹, the Critical Making self-reflection tool²⁰, and a podcast series on interviews with makers²¹. All of these resources are accessible on the main Critical Making website, and corresponding

¹⁹ https://github.com/vektorious/cricial making education

²⁰ https://criticalmakingeu.files.wordpress.com/2023/06/reflection-tool-a4-cmykprint-01.jpg

²¹ https://archive.org/details/@doutorsocrates

communication collaterals such as social media posting templates have been created to promote the resources.



FIGURE: SOCIAL MEDIA TEMPLATES

The dissemination of these deliverables is facilitated through various digital channels. Partners contribute to the dissemination effort by featuring the project in their respective organisation's newsletters, while a social media kit assists the partners and the project's network of multipliers in sharing the content on their platforms. This concerted social media effort plays a significant role in disseminating the project's deliverables to a wider audience.



FIGURE: SOCIAL MEDIA KIT

SCALING IMPACT VIA PARTNERS & RELEVANT NETWORKS

ZSI

ZSI is a private non-profit institute for applied social sciences and a Centre of Excellence for social innovation based in Vienna (Austria). We implement research and application projects on the social embedding and impact of all types of innovations and contribute to the design and diffusion of socially accepted and sustainable innovations to meet global challenges. ZSI has been studying the social innovation potentials of the maker movement for a decade and the Critical Making project results contribute to building the knowledge base that we continuously update and share with the relevant stakeholders. The in-depth findings help us to define further research, to support networks, to advise policy stakeholders and contribute to the shaping of societal transformations.

More concretely, we will bring the Critical Making results to other projects and initiatives, such as mAkE²². mAkE is a 3-years innovation action, funded under Horizon 2020, where a transdisciplinary team aims to connect European and African makerspaces that serve as Digital Innovation Hubs to maximise their potential as spaces for digital innovation, skill building, job creation and contact points for global collaboration networks. Together with our partner GIG, we will distribute the practical findings, tools and guidelines for makers and makerspaces in the Digital Innovation Hubs ecosystem, in Africa and Europe. In addition, we will leverage on other networks represented in the mAkE project, such as the African Makerspace Network, the Internet of Production Alliance or

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²² https://makeafricaeu.org/

the Fab City Foundation. All these networks are important multipliers for the further dissemination and exploitation of our work.

The strongly participatory approach in this project has also brought us closer to local makers and makerspaces, such as the Happylab in Vienna²³ or the educational makerspace at the technical museum in Vienna²⁴. These spaces have already expressed their interest in making use of the Critical Making resources, such as the educational toolkit or the guidelines on inclusive makerspaces. In addition, we plan to build on these connections in the future for further collaborations and possible joint events and engagement activities.

Finally, we also plan to expand our research portfolio furthering research on the potentials of social innovation and transformative innovation in the maker communities. There are already some ideas on how to build on the work of Critical Making by e.g. looking deeper in the reflexive practices of makers at global scale and build on the exploration of core values of different maker communities.

TUB

For WP2, in the future, we would like to understand how a broad range of makers use some of the tools we have developed over the project period. We developed the Critical Making Responsibility Framework (CMRF) with participation and input from grassroots innovators, including at a conference organised by the Massachusetts Institute of Technology (MIT) and the FabFoundation in 2022 in Indonesia. During the conference, a group of makers won seed funding from MIT to develop a collection of tools made for makers to improve their practice. We would like to follow

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²³ https://www.happylab.at/de_vie/

²⁴ https://www.technischesmuseum.at/

up on these activities and collaboratively develop a proposal for HORIZON in the future. The project proposal is planned to be submitted to HORIZON-CL2-2024-DEMOCRACY-01-12, Testing and implementation of research results fostering democracy and governance. This call will allow a new consortium to test and further develop the tools already developed with makers, to support responsible, critical and sustainable making in Europe and the Global South, also contributing to fostering democracy.

In WP4 Case Action: Young Talents, we published all materials developed during the program on platforms, which allow further development by the community. Learnings and materials of the Critical Making project will be used in similar, education-related projects. Through the Spotlight box for Critical Making that was developed together with the NGO Junge Tüftler*innen, this result of the project will continue to be disseminated. There was also a lot of interest in the Manifesto for Critical Making in Education, and we hope to create further exploitation opportunities from that interest with educational institutions.

VTT

VTT has a long-term commitment to develop its scientific excellence in ethics and RRI evaluation and has several on-going EU-funded and national research projects on this topic. Furthermore, as an active participant in the global innovation system, we also aim to turn scientific excellence into practical impacts by promoting the social responsibility of the research and innovation system through research collaborations and consultancy (e.g. co-creation, engagement, ethics by design and design methods). The results of the Critical Making project will contribute to VTT current and future work in the following ways:

- We will benefit from the Critical Making Responsibility Framework in our on-going EU_Funded citizen science project GreenSCENT where we are responsible for RRI and impact evaluation.
- We are engaged in an EU funded Swafs project FRANCIS which aims to promote citizen-industry collaboration in frugal innovations. The work done to investigate the community empowerment impacts of making provide us with valuable tools to also consider the responsibility of the FRANCIS innovation challenges from a community perspective. Furthermore, the Guidelines for inclusive making produced in the WP3 and Critical Making Reflection tool serve as a valuable resource for the FRANCIS project responsibility evaluations and forthcoming open challenge design.
- The Guidelines for inclusive making will also add the resources of VTT to promote gender inclusion in research and innovations, which is one of the core development focuses of the VTT Ethics and Responsibility in Innovations research team. The team is engaged in an EU funded Gender in STI research project, which will benefit from the results in their future work of compiling guidelines for addressing gender bias in research.
- Open innovation is one of the research interests of VTT, and we will continue to elaborate the results of the analysis of openness of making as a social innovation (elaborated as D5.4) and actively seek to build new research projects and networks on that topic. We have also already applied in the beginning of 2023 for national Strategic research funding of the Academy of Finland to study and promote frugal innovations and models of distributed manufacturing within the Finnish manufacturing industry. The initial application did not get funding but received good feedback from the evaluators and we will actively continue to create international and national

consortiums for that research topic. The networks and knowledge base of making and frugal innovations created during the Critical Making project support these attempts.

GIG

Global Innovation Gathering is a global, charitable association and network of makers and makerspaces, innovation hubs, individual innovators and many more grassroots actors, mostly based in so-called global south countries. The research project resulted in many parts of work the members of the network were already doing for many years before the project started. GIG will continue to support globally connected makers and work towards a more sustainable and equitable future.

The results of the Critical Making project will contribute to this work in many ways:

- We develop new project funding proposals to adapt the results for outreach to German makerspaces, together with German makerspaces involved in the creation of the research
- We use the results in the EU funded mAkE project, that connects
 African and European makerspaces and makerspace networks,
 together with our partner ZSI
- We encourage our members globally to recreate the Flashlight box²⁵ for Critical Making and create workshops with it, adapted to the local needs
- We continue the conversation around more inclusive makerspaces

The open source sharing of all research and work results with the global maker community and anyone else interested in the topic is a crucial part

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²⁵ <u>https://github.com/vektorious/cm-flashlight</u>

of the sustainability of the project in our view – and at the same time we see that only with continuous engagement activities, a long term uptake of results can be achieved. Hence we are looking to sustain the work further in our fundraising efforts.

We also would like to highlight the impact of the Critical Making programme for makers who participated in it. To give an example: As a result of the Critical Making Mentoring program and the collaboration with the mAkE project, mentoring programme participant Dawa Edina from Uganda is now receiving support from Manufacturing Change (UK) in the form of a microgrant and further mentoring to test the business model for the solar charger.

WIF

Wikifactory's commitment to community engagement in line with the vision and mission of Critical Making will extend beyond the research program. Through regular newsletters, active social media presence, and online press engagements, Wikifactory will continue to promote Critical Making resources and initiatives. By leveraging their existing channels, Wikifactory will ensure that the Critical Making community remains informed and engaged with new developments, events, and resources.

In 2023, Wikifactory has plans to forge closer ties with the student and teacher community on the platform. With over 50 universities already utilising Wikifactory to host their learning materials, this targeted engagement will create opportunities to introduce Critical Making resources to a wider educational audience. By keeping this segment aware of the valuable resources and projects within Critical Making, Wikifactory can nurture a new generation of makers, educators, and

innovators who can further contribute to and build upon the program's outcomes.

Moreover, Wikifactory is actively involved in the establishment of the Internet of Production Foundation (IoPF), a collaborative initiative based in Denmark. This foundation aims to bolster the social and environmental impact of the platform by fostering partnerships and driving innovation within the manufacturing ecosystem. As Critical Making aligns closely with the values and objectives of IoPF, it provides a natural synergy for the continued integration and promotion of Critical Making resources within the broader community engagement and dissemination efforts led by Wikifactory and the IoPF.

The combined efforts of Wikifactory, IoPF, and other collaborative initiatives will serve as a powerful mechanism for highlighting the resources and knowledge generated by Critical Making. By weaving Critical Making into the fabric of community engagement and dissemination activities, these initiatives will ensure that the insights, projects, and outcomes of Critical Making continue to be referenced and shared with relevant communities. This ongoing promotion will amplify the impact and reach of Critical Making, facilitating sustained engagement, knowledge exchange, and collaboration long after the program's conclusion.

By leveraging the existing community of designers, engineers, and innovators on Wikifactory, engaging with the student and teacher community, and aligning with the objectives of the IoPF, Critical Making can extend its influence, drive further engagement, and foster the adoption of its principles and practices in the broader manufacturing and maker ecosystem. The ongoing integration of Critical Making resources in community engagement, newsletters, social media, and other

dissemination activities will ensure that the program's outcomes continue to resonate and inspire future generations of makers and innovators.

Wikifactory is also exploring future research and development (R&D) opportunities in collaboration with the EU Project OpenNext!²⁶ Partners in research bids related to manufacturing and circular economy. The OPEN!NEXT project brought together SMEs and makerspaces across Europe, facilitating the development of new products based on open source principles. With expertise in business and data management, design processes, manufacturing, and communication, the project supported companies in realising prototypes and commercial roadmaps through open source collaboration.

The most advanced bid is related to the upcoming TWIN GREEN AND DIGITAL TRANSITION 2024 call under the Horizon Europe Framework Programme²⁷. The focus of the call is on easy access to flexible and decentralised manufacturing capacities, servitization of manufacturing assets, and improved value chain integration. Wikifactory aims to leverage the insights and resources developed through Critical Making to contribute to the bid and further exploit them in future R&D programs.

Where partners of the programme advance in future funding opportunities for R&D, Wikifactory will encourage and provide indications on where to take advantage of Critical Making resources for the benefit of gender diversity and responsible innovation practices in their programme.

²⁷ https://www.horizon-europe.gouv.fr/twin-green-and-digital-transition-2024-31864

BROADER RELEVANCE TO EU POLICY

The Critical Making deliverables and outputs can be further exploited by future research and development (R&D) programs within the Industry 5.0 framework. As Industry 5.0 aims to foster a sustainable and human-centric industry, the insights and resources from Critical Making will contribute to shaping innovative technologies, industrial processes, business models, and understanding the importance of human-centricity, sustainability, and resilience in the industry.

The industry transition towards Industry 5.0 aligns with the European Commission's priorities, including an economy that works for people, the European Green Deal, and Europe's digital age. It involves adopting a human-centric approach to digital technologies, upskilling and reskilling workers, promoting resource-efficient and sustainable industries, and fostering global competitiveness through research and innovation investment. This is in resonance and relevance to Critical Making and we will be building bridges to leaders in Industry 5.0 to raise awareness of our resources for education, inclusivity and diversity. Thus, the Critical Making deliverables and outputs will be leveraged within the context of Industry 5.0, contributing to the transformation of European industry towards a sustainable, human-centric, and resilient future.

Critical Making is also highly relevant in the context of the Made in Europe partnership under the Horizon 2021-2027 Framework Programme. As the partnership aims to drive sustainable manufacturing and boost European manufacturing ecosystems, Critical Making provides valuable insights and practices that align with these goals. By integrating critical thinking, creativity, and hands-on making, Critical Making promotes a

human-centric approach to manufacturing, emphasising social and environmental considerations.

Critical Making recognizes the importance of addressing societal needs and challenges through innovative and inclusive manufacturing processes. It emphasises the involvement of diverse stakeholders, including citizens, in co-creating solutions and fostering collaborations between academia, industry, and the public sector. This aligns with the objectives of the Made in Europe partnership to create a competitive, green, and resilient manufacturing industry in Europe.

Furthermore, Critical Making encourages the adoption of open-source principles, enabling knowledge sharing, collaboration, and the development of sustainable and customizable products. This resonates with the partnership's aim to position European manufacturing ecosystems as global leaders in technology and circular industries.

By incorporating Critical Making principles and practices into the activities of the Made in Europe partnership, there is an opportunity to leverage the expertise and resources within the Critical Making community to drive innovation, foster sustainability, and enhance the human-centric focus of European manufacturing.

Conclusion

In conclusion, the "Critical Making" project has embarked on a meaningful research journey towards advancing critical and socially responsible making in the European research landscape. Through interdisciplinary collaboration and a strong commitment to inclusivity, the project has made significant strides in promoting open source innovation, fostering gender inclusivity, and raising awareness of responsible making practices.

Throughout the lifespan of the project, a comprehensive range of communication, community outreach, exploitation, and dissemination activities have been executed. These endeavours have facilitated the engagement of a diverse spectrum of stakeholders in the European Union and beyond. The fruits of the project, including its findings, resources, and tools, have been made readily accessible through platforms such as Wikifactory and GIG, thereby assuring their sustained availability and applicability by the global maker community.

The Critical Making project has not only generated valuable insights and resources but has also contributed to the broader conversation on responsible research and innovation in grassroots innovations. By fostering inclusivity, empowering young talents, and promoting sustainable practices, the project has sown the seeds for future developments in critical making and open source innovation.

As the project sets sail towards new horizons, its legacy will continue to inspire and guide the maker community, educators, researchers, and policymakers. By building upon the project's achievements, stakeholders can further advance critical making practices, foster diversity and inclusivity, and contribute to the development of an open society through open source innovation. The engaging nature of the Guidelines, Games, Manifesto, Flashlight Box and more will be sure to maintain a presence of Critical Making in the hundreds of partners engaged and thousands reached throughout the programme. In operating as a community layer above and integrating existing communities, through a common visual identity and deep engagement of values of critical making as the binding culture - a broader engagement becomes possible that doesn't require its impact to be continuously maintained by a set of people for it to have ongoing relevance or continuity. Rather, by setting it forward through the

thought leadership and inspiration that is brought about by the engagement of our content and outcomes - the impact of our work is integrated into the organisations that continue to engage on beyond this project's lifetime.

The project's outcomes also align with key broader Horizon EU programs with a present secured partner project in mAKe, to potential of the BOOST programme, and the wider positioning vis-a-vis Industry 5.0 and Made in Europe that demonstrates the relevance to European research and innovation priorities. By leveraging these programs through the ongoing work of Consortium partners ZSI, TUB, VTT, GIG, and WIF, the project will effectively extend its impact and lay the foundation for future collaborations and initiatives.

In summary, the "Critical Making" project has successfully advanced the field of critical and socially responsible making through its interdisciplinary approach, extensive engagement efforts, and strategic dissemination activities. The project's impact will endure as its findings and resources continue to shape the future of making, innovation, and collaboration in Europe and beyond.

APPENDIX

DETAILED CED REPORTING SHEET

Events from 01.01.2021-30.06.2023							
							Tracking
Title of event	Link	Date	Location	Country	Host / Organisation	Critical Making representation by	Participants
nterview with FRANCIS project	https://www.frai	2021	online		FRANCIS project	Barbara – ZSI	3
Sankt Afra Akademische Woche	https://www.san	2021-02-12	online	Germany	Landesgymnasi um Sankt Afra zu Meißen	Sandra, GIG	40
Exploring Critical Making workshop	https://wikifacto	2021-03-25	online	global	Critical Making Consortium	whole consortium	230
Oth International Conference on Communities and Technologies	https://2021.com	2021-06-24	online	global	EUSSET	Regina / TUB	100
Summer School CoAct		2021-09-13	online	Europe	CoAct Project (and University of Barcelona)	Regina TUB	45
				1	makerspace	Regina and Melanie	
Maker Meetup Aachen		2021-10-01	online	Germany	Aachen	TUB	15
Critical Making Advisory Board Meeting	https://docs.goo	2021-10-05	online	Austria	ZSI	Barbara – ZSI	15
Hacking Innovation Bias Seminar @ TUB		2021-10-12	online	Germany	TUB and Fraunhofer CeRRi	Lisa Mo and Teresa ZSI	15
Co-Design Workshop 1 for gender-inclusive making		2021-10-25	online	global	ZSI	ZSI, GIG, WIF	17
Co-Design Workshop 1 for gender-inclusive making		2021-11-08	online	global	ZSI	ZSI, GIG	12
Co-Design Workshop 1 for gender-inclusive							
making		2021-11-22	online	global	ZSI Didaktisiertes	ZSI, GIG	12
Traven und Mädeben in Eablahe 9 Makerenaese	France und Mäs	2021 11 22	anlina	Cormany	FabLab	Teresa – ZSI	19
Frauen und Mädchen in FabLabs & Makerspaces Co-Act Webinar Shaping a critical and open approach to Gender Equality	https://coactpro		online	Germany	IDEENREICH	Lisa Mo (ZSI)	7
DOTS 2021: Open Education meetup	nttps://coactpro	2021-11-23	online	global	GIG		14
DOTS 2021: Sustainable Making meetup		2021-11-29	online	global	GIG	Sandra, GIG	10
Co-Design Mentoring 1		2021-12-14	online	global	GIG	GIG, VTT, WIF	16
OSI Geneva Forum at the UN: Participatory Research, Citizen Sciences and FabLabs for Peace and Development	http://www.osi-g	2021-12-14	United Nations / online	Switzerland	Objectif Sciences International	Regina / TUB	120
remote Chaos Communication Congress (rC3) – How to add Critical Thinking to your Making	https://pretalx.c	2021-12-28	online	global	CCCV / Chaos Computer Club	Sandra, Saad – GIG	196
Co-Design Mentoring 2		2022-01-12	online	global	GIG	GIG, VTT, WIF	15
Female Makers Month Werkstattrundgang und Vernissage	https://www.hap	2022-05-05	Vienna	Austria	Happylab	Barbara (ZSI)	40
					University of		
EU-SPRI 2022	https://euspri20	2022-06-02	Utrecht	Netherlands	Uthrecht European	Hanna Saari (VTT)	35
Festival of the New European Bauhaus	https://europa.e	2022-06-10	Berlin	Germany	Union	GIG, TUB, ZSI Sandra (GIG) and	100
republica	https://re-public	2022-06-10	Berlin	Germany	GIG, ZSI	Barbara (ZSI)	15
republica	https://re-public	2022-06-10	Berlin	Germany	GIG, ZSI, TUB	Sandra	1000
republica	https://re-public	2022-06-10	Berlin	Germany	TUB	Alex (TUB)	17
republica	https://re-public		Berlin	Germany	TUB	Regina (TUB)	40
GIG weekend Critical Making workshop		2022-06-12	Berlin	Germany	GIG	Sandra (GIG)	10
Gender-inclusive making intiatives: common group meeting		2022-06-20	online	global	ZSI	ZSI, GIG, VTT, WIF	7
DPENNEXT Demonstrators, Berlin	https://opennex	2022-06-29	Berlin	Germany	OPENNEXT	Caroline (WIF), Victoria (GIG), Alex (TUB)	70
Mobile makerspace networkt meeting	A STATE OF THE A	2022-07-02	Forst (Lausitz)	Germany	TUB	Alex (TUB)	12
Open Workshop day at Goodlab		2022-07-02	Berlin	Germany	TUB	Alex (TUB)	16
MEET CRITICAL MAKING – GIG sharing session		2022-07-11	online	Germany	GIG	Sandra	16
Critical Making mentoring kick-off & workshop		_022 00-24	O. III IC		310	Saliaia	,,,
on "Make Things That Make Sense" with Saad Chinoy		2022-09-07	online		GIG	Sandra	20
	1	2005 55 55			Ars Electronica	Barbara, Claudia	
Ars Electronica 2022	https://ars.electi	2022-09-09	Linz	Austria	Centre	(ZSI), Regina (TUB)	8

Events from 01.01.2021-30.06.2023							
							Tracking
					Host /	Critical Making	
Title of event	Link	Date	Location	Country	Organisation	representation by	Participant
Critical Making mentoring: check-in September		2022-09-22	online	_	GIG	Sandra	14
Open Tech Summit		2022-09-30	Berlin	Germany	OTS	Sandra	90
Bildung. Bits und Bäume Festival		2022-09-30	Berlin	Germany	TUB	Alex (TUB)	35
Bits und Bäume		2022-10-01	Berlin	Germany	Bits&Bäume	Sandra	30
Bildung. Bits und Bäume Festival		2022-10-01	Berlin	Germany	TUB	Alex (TUB)	20
Strategic Research - Scientific Conference: A fair,					The Strategic Research		
ust and sustainable society	https://www.aka	2022-10-12	Helsinki	Finland	Council (SRC)	Hanna Saari (VTT)	30
Critical Making Mentoring with Emilio Velis: Share now you make		2022-10-13	online		GIG	Sandra	19
Fab17 Fab Fest Bali		2022-10-16	Bali	Indonesia	MIT and Fab Foundation	Regina (TUB)	80
Fab17 Fab Fest Bali		2022-10-18	Bali	Indonesia	MIT and Fab Foundation	Regina (TUB)	25
					MIT and Fab	<u>.</u> .	
Fab17 Fab Fest Bali Critical Making mentoring: Wikifactory		2022-10-18	Bali	Indonesia	Foundation	Regina (TUB)	20
Onboarding		2022-10-19	online		GIG, WIF	Christina, Sandra	15
Critical Making Mentoring: check-in October		2022-10-27	online		GIG	Sandra Hanna Maria	16
Critical Making Mentoring: Training on SDGs		2022-11-16	online		VTT	Hanna, Maria, Sandra	10
African Makerspace Gathering: Critical Making Award		2022-11-22	Cape Town	South Africa	AMN	Geraldine (GIG)	40
Critical Making Mentoring: Build for Continuity with Bahar Kumar		2022-11-23	online		GIG	Sandra	20
/HYS 2022 research colloquium Messy sustainability	https://events. tuni. fi/yhys2022/	2022-11-24	Tampere	Finland	University of Ta	Hanna Saari (VTT)	25
Critical Making Mentoring: Interactive Session for SDG Training		2022-11-30	online		VTT	Hanna	10
Critical Making mentoring check-in Noevmber		2022-12-01	online		GIG	Sandra	13
Critical Making Mentoring: Integrate Local		2022 12 01	Offinite		GIG	Sanara	13
Knowledge with Georgia Nicolau		2022-12-09	online		GIG	Sandra	15
Critical Making mentoring check-in December		2022-12-19	online		GIG	Sandra	11
5 1 1 5 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1						Lisa Mo (ZSI) &	
Fireshonks Presentation	https://pretalx.c	2022-12-29	online	Germany	ZSI	Teresa (ZSI)	9
German Open Hardware Alliance kick-off		2023-01-17	online	Germany	OKFN	Sandra, GIG	19
Podcast zu Gender-sensibler und inklusiver				,		,	
Fechnikgestaltung		2023-02-06	online	Germany	ZSI	Lisa Mo (ZSI)	2
Critical Making mentoring check-in February		2023-02-27	online		GIG	Sandra	15
						Barbara and Teresa	
mAkE knowledge pill Critical Making Mentoring Demo Week session	https://www.you	2023-03-01	online	online	mAkE project	(ZSI)	15
#1 Critical Making Mentoring Demo Week session		2023-03-07	online		GIG	Sandra	20
#2		2023-03-08	online		GIG	Sandra	22
Forum Open Hardware		2023-03-13	Berlin	Germany	GIG	Geraldine	30
Anthropology Conference 2023	https://www.arc		Rovaniemi	Finalnd	VTT	Hanna (VTT)	35
Nomen in Engineering: Barriers and						Christina (WIF),	
opportunities in 2023 and our future		2023-03-23	online	Spain	WIF ZSI/Fablab	Teresa (ZSI)	40
NP3 Sustainability Workshop at Fablab Winam		2023-04-29	Kimu	Kenya	Winam	- Barbara & Lisa Mo	4
NP3 Sustainability Workshop at Happylab Vienna		2023-05-04	Vienna Rhino Camp Refugee	Austria	ZSI	(ZSI)	2
NP3 Sustainability Workshop at Community Creativity for Development		2023-05-04	Settlement, Arua District	Uganda	ZSI/Community Creativity for Development	-	6
NP3 Sustainability Workshop at Salvage Garden Assistive Makerspace		2023-05-07	Singapore	Singapore	ZSI/Salvage Garden	-	6
WP3 Sustainability Workshop at Suli Innovation House		2023-05-12	Sulaymaniya	Iraq	ZSI/Suli Innovation House	-	7

Events from 01.01.2021-30.06.2023							
							Tracking
Title of event	Link	Date	Location	Country	Host / Organisation	Critical Making representation by	Participants
Critical Making zine workshop		2023-05-13	online and Berlin	Germany	Critical Making	All	15
WP3 Sustainability Workshop at BiTmakerspace		2023-05-22	Bahir Dar	Ethiopia	ZSI/BiTmakers pace	-	6
WP3 Sustainability Workshop - Verbund offener Werkstätten		2023-05-24	online	Germany	Critical Making	Sandra (GIG)	5
Critical Making Mentoring: Ecosystem Services with Aravinth Panch		2023-05-30	online		GIG	Sandra	18
Horizon Futures Watch Workshop 1 - Futures of Social Confrontations		2023-05-32	online		Foresight on Demdn, ISSINNOVA	Maria (VTT)	45
GIG 10th Anniversary conference		2023-06-02	Berlin	Germany	GIG	Sandra, Ricardo	92
GIG Celebrating Critical Makers: CM Sustainability workshop	https://globaling	2023-06-03	Berlin	Germany	Critical Making	Sandra (GIG)	20
GIG Celebrating Critical Makers	https://globaling	2023-06-03	Berlin	Germany	Critical Making	Sandra (GIG)	52
re:publica 2023: Makerspace CM exhibition	https://re-public	2023-06-06	Berlin	Germany	GIG	Sandra, Ricardo (GIG), Regina, Alex (TUB)	1000
republica 2023: Critical Making workshop	https://re-public	2023-06-06	Berlin	Germany	TUB	Alex (TUB)	15
HASTAC Conference	https://hastac20	2023-06-09	online	New York, USA	ZSI	Teresa – ZSI	0
HASTAC Conference	https://hastac20	2023-06-09	online	New York, USA	ZSI, TUB	Barbara (ZSI); Regina (TUB)	11
EU-SPRI 2023	https://www.eu	2023-06-14	Brighton	UK	VTT	Maria (VTT)	30
Makerlabs Meetup (Save the Children)		2023-06-20	online	Germany	TUB	Alex (TUB)	6
Lange Nacht der Wissenschaften		2023-06-22	Berlin	Germany	TUB	Regina	50
						Estimated total participants	4472

	Timeframe: 1 January 2021 - 30 J	une 2022				
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
Website						
•	Page about Critical Making	https://globalinnovationgathering.org/critical-maki	19/01/2021	English	GIG	200
	Blogpost Announcement Mentoring Programme	https://globalinnovationgathering.org/2022/03/17/	17/03/2022	English	GIG	200
	CLP about Women in Engineering (and Critical Making)	https://discover.wikifactory.com/women-in-engine	28/06/2021	English	WIF	8.749
	Website page at TU Berlin	https://www.tu.berlin/arte/forschung/projekte/crit		0 -	TUB	2.000
	Website page at ZSI	https://www.zsi.at/de/object/project/5798			ZSI	2.000
	Website page at VTT	https://cris.vtt.fi/en/projects/critical-making-studyi	ng-rri-principles-in-	the-maker-con	VTT	2.000
,	Community Page at WIF	https://wikifactory.com/+criticalmaking/	01.01.2021- 30.06.2022		WIF	17.912
,	Droject Website	https://eriticalmaking.ou	01.01.2021-		WIF	1 402
	Project Website	https://criticalmaking.eu	30.06.2022			1.482
	VTT: Research Output	https://cris.vtt.fi/en/publications/how-open-is-the-	2021-12	En	VTT	1.000
	Critical Making Case Actions and Methodologies: A Methodological Toolbox	https://zenodo.org/record/5948298	02/02/2022	English	TUB, ZSI, VTT, GIG	136
	How Open Is the Maker Movement? Integrative Literature Review of the Openness Practices	haratte de la contraction de l	00/40/2021	En all I	VIII 701 010	
	in the Global Maker Movement	https://zenodo.org/record/5769721	09/12/2021		VTT, ZSI, GIG	52
11				Estimatio	n of reach total	35.731
Press releases						
				F		
(Estimatio	n of reach total	
Video/film						
Video/IIIII	Critical Making interactive					
•	workshop Livestream Recording	https://youtu.be/2yxz1uQNE_E	25/03/2021	English	GIG	251
•	Exploring Critical Making Intro	https://www.youtube.com/watch?v=1iNRvWRFK5l	07/04/2021	English	GIG	137
	Exploring Critical Making Garnet Hertz	https://youtu.be/h40QgLnEccw	07/04/2021	English	GIG	243
	Exploring Critical Making Angelika Strohmeyer	https://youtu.be/PEXkSjwdrWI	07/04/2021	English	GIG	79
	Exploring Critical Making Jouko Myllyoja	https://youtu.be/6p2btiKkYP8	07/04/2021	English	GIG	17
	Exploring Critical Making Reem	https://youtu.be/fRI14ULfcKw	07/04/2021		GIG	53
	Exploring Critical Making Sénamé Koffi Agbodjinou	https://youtu.be/8YrEcf3zY1w	07/04/2021	_	GIG	56
	Video of talk at rC3: How to add	in the state of th	0770 112021	2.16.1311	0.0	30
1	Critical Thinking to your Making How to add Critical Thinking to	https://media.ccc.de/v/rc3-2021-xhain-371-how-to-	28/12/2021	English	GIG	215
•	your Making	https://www.youtube.com/watch?v=leiaySrBuhw	04/01/2022	English	GIG	567
	How to add Critical Thinking to your Making (deutsch)	https://www.youtube.com/watch?v=_cfasZVk-pA	04/01/2022	English	GIG	268
	re:publica 2022: Why Critical Making? What's Critical about		40/05/0000	- "		200
11	Making or is Making Critical?	https://www.youtube.com/watch?v=8TcwswgGZZI	10/06/2022	_	TUB n of reach total	306 2.192
•				Laciniacio	ii oi reacii totai	2.132
Scientific (htt)	os://zenodo.org/search?page=1&si	ze=20&q=critical%20making)				
	How Open Is the Maker Movement? Integrative Literature Review of the Openness Practices					
•	in the Global Maker Movement Critical Making with and for	https://www.mdpi.com/2071-1050/13/24/13559	8/12/2021	English	VTT, ZSI, TUB	2.754
	Communities: Community-Driven Critical Making Grounded in Practitioners' Perspectives on Definition and Praxis	https://dl.acm.org/doi/10.1145/3461564.3461572	21/06/2021	English	TUB	146
	Critical Making Baseline: Towards a Critical Making Responsibility Framework. A report published by					
	the Critical Making Consortium.	https://zenodo.org/record/6907490	2021	English	TUB, VTT, GIG	43

	Timeframe: 1 January 2021 - 30 Ju	ine 2022				
Amount of	Description / Title	Link	Date	Language	Responsible partner	reach in no. of people
0313	The Future of Critical Making. Interview mit Garnet Hertz. In: Handbook Fab Labs: Einrichtung,	LIIIK	Dute	Lunguage	purcher	реоріс
1	Finanzierung, Betrieb, Forschung & Lehre. Bombini Verlag, Bonn. ISBN 978-3-946496-26-7	https://www.bombini-verlag.de/shop/handbuch-fal	2021	English	TUB	
	Critical Making Consortium: Studying Responsible Research and Innovation Principles in the Maker Community. Proceedings of	III (195.// www.bombiiii-venag.de/shop/iiaiidudciriai	2021	Liigiisii	100	
1	the Objectif Sciences International 12th Geneva Forum at United Nations Conference	https://osi-genevaforum.org/Participatory-Research	2020	English	TUB, ZSI	
40					on of reach total	2.943
lon-scientific						
	Wenn Laien kreativ forschen	printed edition of newspaper		German	ZSI	50.000
1		риней санон от немзрарст			on of reach total	50.000
Social media						
nstagram						
1	Mentoring program timeline	https://www.instagram.com/p/CeMbWGiq3ES/	30/05/2022	English	GIG	52
1	Mentoring program #meetthejury	https://www.instagram.com/p/CeMXqidu9qv/	30/06/2022	English	GIG	48
1	Mentoring program #meetthejury	https://www.instagram.com/p/CeGXk3errls/	28/05/2022	English	GIG	6-
1	Mentoring program #meetthejury	https://www.instagram.com/p/CeGJws2syrk/	28/05/2022	English	GIG	4
	Mentoring program #meetthejury	https://www.instagram.com/p/CeF7V1HDduW/	28/05/2022	_	GIG	3.
1	Mentoring program #meetthejury	https://www.instagram.com/p/Cd8WGJNsfqH/	24/05/2022	English	GIG	4
1	Mentoring program #meettheteachers	https://www.instagram.com/p/Cdzr_BOPjy/	21/05/2022	English	GIG	5
1	Mentoring program #meettheteachers	https://www.instagram.com/p/CdxU0B0s9Wb/	20/05/2022	English	GIG	33
1	Mentoring program #meettheteachers	https://www.instagram.com/p/CdvaOFbK6Yn/	19/05/2022	English	GIG	4!
1	Mentoring program #meettheteachers	https://www.instagram.com/p/CdsTEBeMzBw/	18/05/2022	English	GIG	58
1	Mentoring program #meettheteachers	https://www.instagram.com/p/CdqSUKytFoR/	17/05/2022	English	GIG	8
1	GOSanitize! Critical Making workshop	https://www.instagram.com/p/CdnyNjTMvyP/	16/05/2022	English	GIG	6
1	Mentoring program #apply!	https://www.instagram.com/p/CddyJ-1K26w/	12/05/2022	English	GIG	89
1	Mentoring program #apply!	https://www.instagram.com/p/CdYw2A6K7Ut/	10/05/2022	English	GIG	6
1	Mboa Lab bio innovation lab	https://www.instagram.com/p/CbxfCs-td7F/	31/03/2022	English	GIG	16
1	#12daysofmakers	https://www.instagram.com/p/CYV8USgsveH/	05/01/2022	English	GIG	56
1	#12daysofmakers	https://www.instagram.com/p/CYTWcqPsTZo/	04/01/2022	English	GIG	6-
1	#12daysofmakers	https://www.instagram.com/p/CYQxpOfsJtU/	03/01/2022	English	GIG	7
1	#12daysofmakers	https://www.instagram.com/p/CYOMyleLHh3/	02/01/2022	English	GIG	8
1	#12daysofmakers	https://www.instagram.com/p/CYLn_iJMF3H/	01/01/2022	English	GIG	6
1	#12daysofmakers	https://www.instagram.com/p/CYJDN4EM_pl/	31/12/2021	English	GIG	6:
1	#12daysofmakers	https://www.instagram.com/p/CYGeadosdpZ/	30/12/2021	English	GIG	5:
	#12daysofmakers	https://www.instagram.com/p/CYD5m60s7rL/	29/12/2021	_	GIG	6
	#12daysofmakers	https://www.instagram.com/p/CYBUz8isVg0/	28/12/2021	_	GIG	7-
	#12daysofmakers	https://www.instagram.com/p/CX-wFwcM_pq/	27/12/2021	_	GIG	5
	#12daysofmakers	https://www.instagram.com/p/CX8LORHMXrg/	26/12/2021	_	GIG	8!
	#12daysofmakers Critical Making book - Regina	https://www.instagram.com/p/CX5qkXZsRx3/	25/12/2021	_	GIG	98
1	Sipos/Garnet Hertz Critical making website	https://www.instagram.com/p/CRgIUvbMv8c/	19/07/2021	English	GIG	165
1	announcement	https://www.instagram.com/p/CN72J8RpX80/	21/04/2021	English	GIG	146
1	Critical making website announcement	https://www.instagram.com/p/CMR4tnUlTvR/	11/03/2021	English	GIG	110
1	Exploring Gender Inclusive Practices in the Makerspace!	https://www.instagram.com/p/CsQ1rSNMLBI/?utm	15/05/2023	English	ZSI/GiG/Suli Innovation	7:
31			Estimatio	n of reach on	n Instagram total	2.291
inkedIn	republica	https://www.linkedin.com/posts/siposregina_why-c	06/22	EN	TUB	150
	Mentoring programme	https://www.linkedin.com/posts/siposregina_critica			TUB	150
	Critical Making seminar	https://www.linkedin.com/posts/siposregina_this-w			TUB	130

		Timeframe: 1 January 2021 - 30 Ju	ine 2022				
Amount of Posts		Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
	1	Mentoring program timeline	https://www.linkedin.com/feed/update/urn:li:activi	30/05/2022	English	GIG	68
	1	Mentoring program #meetthejury	https://www.linkedin.com/feed/update/urn:li:activi	30/05/2022	English	GIG	464
	1	Mentoring program #meetthejury	https://www.linkedin.com/feed/update/urn:li:activi	30/05/2022	English	GIG	108
	1	Mentoring program #meetthejury	https://www.linkedin.com/feed/update/urn:li:activi	30/05/2022	English	GIG	134
	1	Mentoring program #meetthejury	https://www.linkedin.com/feed/update/urn:li:activi	30/05/2022	English	GIG	81
	1	Mentoring program #meetthejury	https://www.linkedin.com/feed/update/urn:li:activi	28/05/2022	English	GIG	186
		Mentoring program					
	1	#meettheteachers Mentoring program	https://www.linkedin.com/feed/update/urn:li:activi	24/05/2022	English	GIG	584
	1	#meettheteachers	https://www.linkedin.com/feed/update/urn:li:activi	21/05/2022	English	GIG	69
	1	Mentoring program #meettheteachers	https://www.linkedin.com/feed/update/urn:li:activi	20/05/2022	English	GIG	92
	1	Mentoring program #meettheteachers	https://www.linkedin.com/feed/update/urn:li:activi	18/05/2022	English	GIG	146
	1	Mentoring program #meettheteachers	https://www.linkedin.com/feed/update/urn:li:activi	17/05/2022	English	GIG	147
	1	GOSanitize! Critical Making workshop	https://www.linkedin.com/feed/update/urn:li:activi	16/05/2022	English	GIG	60
		Mentoring program apply	https://www.linkedin.com/feed/update/urn:li:activi			GIG	137
		GOSanitize! Critical Making	harman Marian Balanda and a facility of the state of the	20/01/225	F1: !	CIC	
		workshop	https://www.linkedin.com/feed/update/urn:li:activi		-	GIG	61
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	61
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	63
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		0	GIG	44
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		-	GIG	60
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	82
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		-	GIG	58
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		_	GIG	27
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	112
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		_	GIG	35
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	87
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi		_	GIG	32
		#12daysofmakers	https://www.linkedin.com/feed/update/urn:li:activi			GIG	61
		Newsletter - critical making survey	https://www.linkedin.com/feed/update/urn:li:activi			GIG	63
	30			Estimati	on of reach o		
Facebook						JII LIIIKEUIII tota	l 3.552
		Pogina Sinos / Carnot Hortz				JII LIIIKeuiii tota	3.332
		• '	https://web.facebook.com/wearegig/photos/a.1589	13/06/2022	English	GIG	66
	1		https://web.facebook.com/wearegig/photos/a.1589				66
	1	Critical Making talk at republia 22 #rp22 session announcement -		10/06/2022	English	GIG	66
	1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement -	https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022	English English	GIG	66 37 27
	1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making	https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022	English English English	GIG GIG	66 37 27 109
	1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022	English English English	GIG GIG GIG	
	1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meetthejury	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022	English English English English	GIG GIG GIG GIG	66 37 27 109 1.565
	1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 28/05/2022	English English English English English English	GIG GIG GIG GIG GIG GIG	66 37 27 109 1.565 89 211
	1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury #meettheteachers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 28/05/2022 24/05/2022	English English English English English English English	GIG GIG GIG GIG GIG GIG GIG	66 37 27 109 1.565 89 211 210
	1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program #meettheteachers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/316425-	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022	English English English English English English English English English	GIG GIG GIG GIG GIG GIG GIG GIG GIG	666 37 27 109 1.565 89 211 210
	1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164259	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022	English	GIG	666 37 27 109 1.565 89 211 210 61
	1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164254 https://web.facebook.com/wearegig/posts/3164254 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58
	1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164254 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58
	1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164259 https://web.facebook.com/wearegig/posts/3164259 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3160429 https://web.facebook.com/wearegig/posts/3160429 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 18/05/2022 17/05/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58 964 50
	1 1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers GOSanitize! Critical Making workshop Mentoring program apply	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164254 https://web.facebook.com/wearegig/posts/3164254 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 18/05/2022 17/05/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58 964 50
	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers GOSanitize! Critical Making workshop Mentoring program apply GOSanitize! Critical Making workshop	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/3164259 https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 17/05/2022 16/05/2022 16/05/2022 29/04/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58 964 50 159 53 630
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers GOSanitize! Critical Making workshop Mentoring program apply GOSanitize! Critical Making workshop Newsletter - critical making survey	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/316425- https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 17/05/2022 16/05/2022 12/05/2022 29/04/2022 17/03/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58 964 50 159 53 630 266 101
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers GOSanitizel Critical Making workshop Mentoring program apply GOSanitizel Critical Making workshop Newsletter - critical making survey #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/316425- https://web.facebook.com/wearegig/posts/316425- https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 17/05/2022 16/05/2022 16/05/2022 29/04/2022 17/03/2022 04/01/2022	English	GIG	666 37 27 109 1.565 89 211 210 61 58 964 50 159 53 630 26 101 57
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Critical Making talk at republia 22 #rp22 session announcement - Critical Making Game #rp22 session announcement - Spotlight on Critical Making Mentoring program #meetthejury Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers Mentoring program #meettheteachers GOSanitize! Critical Making workshop Mentoring program apply GOSanitize! Critical Making workshop Newsletter - critical making survey	https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/photos/a.1589 https://web.facebook.com/wearegig/posts/316425- https://web.facebook.com/wearegig/photos/a.1589	10/06/2022 10/06/2022 30/05/2022 28/05/2022 28/05/2022 24/05/2022 21/05/2022 20/05/2022 19/05/2022 17/05/2022 16/05/2022 16/05/2022 29/04/2022 17/03/2022 04/01/2022 03/01/2022	English	GIG	66 37 27 109 1.565

Amount of		Timeframe: 1 January 2021 - 30	June 2022				
# 12/daysofmakers		Description / Title	Link	Date	Language	•	Estimation of reach in no. of people
#126/apyorfinalers		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	31/12/2021	English	GIG	50
#1 24 Palayorfinakers		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	30/12/2021	English	GIG	48
#126/sysporfinalers		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	29/12/2021	English	GIG	70
1 #126/spycofmakers		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	28/12/2021	English	GIG	77
1 #254/spadminser		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	27/12/2021	English	GIG	68
1 Noveletter critical making survey Impo//web facebook.com/wearregig/photos/294428		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	26/12/2021	English	GIG	921
Sport/Comment Fort Stroke Strok		1 #12daysofmakers	https://web.facebook.com/wearegig/photos/a.1589	25/12/2021	English	GIG	61
Sportcomment Intractive vorlication Making Territoriate Making Ter		-			English	GIG	84
Interactive work-in-po Exploring Critical Making Rem I Talhouk Exploring Critical Making Septioning Septioning Critical Making Septioning Septioning Critical Making Septioning Septionin		Critical Making book - Regina			English	GIG	571
Talhouk Exploring Critical Making 1 Sénamik Koff Aghodjinou 1 Sénamik Koff Aghodjinou 1 Sénamik Koff Aghodjinou 1 Sénamik Koff Aghodjinou 1 Steamik Koff 1 St		1 Interactive workshop	https://web.facebook.com/wearegig/posts/289503	10/05/2021	English	GIG	72
1 Schamic Koff Ngbodjinou https://web.facebook.com/wearregig/posts/2886252 28/04/2021 English GlG		1 Talhouk	https://web.facebook.com/wearegig/posts/288697	29/04/2021	English	GIG	33
Mylyoga			https://web.facebook.com/wearegig/posts/288625-	28/04/2021	English	GIG	72
1 Angelika Strohmeyer		Exploring Critical Making Jouko					39
1 Garnet Hertz			https://web.facebook.com/wearegig/posts/288104	26/04/2021	English	GIG	43
1 Exploring Critical Making Intro https://web.facebook.com/wearegig/posts/288101 22/04/2021 English GIG Figures Figures GIG Figures Figures GIG Figures Figures Figures Figures GIG Figures		Exploring Critical Making Dr.					
Announcement of Critical Making amount of the program and announcement of Critical Making at republica announcement of Critical Making announcement of Cri		1 Garnet Hertz	https://web.facebook.com/wearegig/posts/288102			GIG	56
Project kick off		1 Exploring Critical Making Intro	https://web.facebook.com/wearegig/posts/288101	22/04/2021	English	GIG	40
Exploring Critical Making workshop https://www.facebook.com/csinnovation/photos/a 16/03/2021 English S51		1 project kick off		25/03/2021	English	GIG	354
Norrishop https://www.facebook.com/Z5Innovation/photos/a 16/03/2021 English Z5I		1 Exploring Critical Making		12/03/2021	English	GIG	60
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	Timeframe: 1 January 2021 - 30	June 2022				Estimation of
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
	1 Mentoring program #meetthejur	https://twitter.com/weareGlG/status/15313380583	30/05/2022	English	GIG	176
	1 Mentoring program #meetthejury	https://twitter.com/weareGlG/status/15313298958	30/05/2022	English	GIG	87
	1 Mentoring program #meetthejury	https://twitter.com/weareGlG/status/15313250107	30/05/2022	English	GIG	147
	1 Mentoring program #meetthejur	https://twitter.com/weareGlG/status/15313227780	30/05/2022	English	GIG	110
	1 Mentoring program #meetthejur	https://twitter.com/weareGIG/status/15313204300	30/05/2022	English	GIG	62
	1 Mentoring program #meetthejun	https://twitter.com/weareGIG/status/15313182790	30/05/2022	English	GIG	174
	1 Mentoring program #meetthejur			English	GIG	13′
		https://twitter.com/weareGlG/status/15313141223	30/05/2022	English	GIG	66
	1 Mentoring program #meetthejum	· ·		U	GIG	59
	1 Mentoring program #meetthejun			_	GIG	67
	Mentoring program #meetthejurg	•			GIG	93
	Mentoring program #meetthejurg			-	GIG	76
	Mentoring program	intps://twitter.com/wearedid/status/13230323330	24/03/2022	LIIGIISII	did	70
	1 #meettheteachers	https://twitter.com/weareGlG/status/15278772350	21/05/2022	English	GIG	131
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15275446593	20/05/2022	English	GIG	120
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15275982370	20/05/2022	English	GIG	67
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15272662877	19/05/2022	English	GIG	129
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15272694003	19/05/2022	English	GIG	69
	Mentoring program - Apply 1st 1 round	https://twitter.com/weareGlG/status/15272698635	19/05/2022	English	GIG	67
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15268487093	18/05/2022	English	GIG	71
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15268487127	18/05/2022	English	GIG	84
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGIG/status/15266337440	17/05/2022	English	GIG	47
	Mentoring program 1 #meettheteachers	https://twitter.com/weareGlG/status/15265550698	17/05/2022	English	GIG	256
	1 Mentoring program apply	https://twitter.com/weareGIG/status/15265564746	17/05/2022	English	GIG	220
	GOSanitize! Critical Making 1 workshop	https://twitter.com/weareGlG/status/15262020690	16/05/2022	English	GIG	16
	1 Mentoring program apply RT	https://twitter.com/weareGlG/status/15250651229	13/05/2022	English	GIG	5
	1 Mentoring program apply RT	https://twitter.com/weareGlG/status/15248163456	12/05/2022	English	GIG	8
	1 Mentoring program apply	https://twitter.com/weareGlG/status/15247919215	12/05/2022	English	GIG	93
	1 Mentoring program apply	https://twitter.com/weareGIG/status/15247919266	12/05/2022	English	GIG	30
	1 Mentoring program is open	https://twitter.com/weareGIG/status/15240695081	10/05/2022	English	GIG	45
	GOSanitize! Critical Making 1 workshop	https://twitter.com/weareGlG/status/15199350097		_	GIG	36
	Gig newsletter w/ MP 1 announcement	https://twitter.com/weareGlG/status/15044753875		English	GIG	10
	1 #12daysofmakers	https://twitter.com/weareGlG/status/14786550172		_	GIG	54
	1 #12daysofmakers	https://twitter.com/weareGlG/status/14782902077		_	GIG	54
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	1 #12daysofmakers	https://twitter.com/weareGlG/status/14779277693		_		
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	1 #12daysofmakers	https://twitter.com/weareGIG/status/14772029818			GIG	48
	1 #12daysofmakers	https://twitter.com/weareGIG/status/14768405772		-	GIG	43
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	1 #12daysofmakers	https://twitter.com/weareGIG/status/14761158318		_	GIG	34
	1 #12daysofmakers	https://twitter.com/weareGIG/status/14757534154		_	GIG	53
	1 #12daysofmakers	https://twitter.com/weareGIG/status/14753910760		_	GIG	72
	1 #12daysofmakers	https://twitter.com/weareGlG/status/14750286304		_	GIG	12
	1 #12daysofmakers	https://twitter.com/weareGIG/status/14746753361		_	GIG	50
	-	https://twitter.com/weareGlG/status/14627936170		_	GIG	53
	1 Critical making/Coact webinar RT	<u> </u>		_	GIG	6
	1 Critical Making survey RT	https://twitter.com/weareGIG/status/14613039828	18/11/2021	English	GIG	5
	1 Follow @critical_making	https://twitter.com/weareGIG/status/13946419379	18/05/2021	English	GIG	50
	Newsletter with Critical Making updates	https://twitter.com/weareGlG/status/13917747419	10/05/2021	English	GIG	73
	Exploring #criticalmaking 1 @ReemTalhouk	https://twitter.com/weareGIG/status/13873157140	29/04/2021	English	GIG	866
	Exploring #criticalmaking 1 @JoukoMyllyoja,	https://twitter.com/weareGlG/status/13869534605	27/04/2021	English	GIG	884

	Timeframe: 1 January 2021 - 30 J	WII- 2-722				Entiment
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
	Exploring #CriticalMaking 1 Angelika Strohmeyer	https://twitter.com/weareGIG/status/13865757955	24/04/2021	English	GIG	1.12
	Exploring #CriticalMaking Garnet Hertz	https://twitter.com/weareGIG/status/13854887238	23/04/2021	English	GIG	1.532
	Exploring Critical Making Intro 1 @bkieslinger	https://twitter.com/weareGIG/status/13851263465	22/04/2021	English	GIG	837
	1 Exploring Critical Making replay	https://twitter.com/weareGlG/status/13847638897	21/04/2022	English	GIG	1.940
	Exploring Critical Making replay - 1 RT	https://twitter.com/weareGlG/status/13804900668	09/04/2021	English	GIG	215
	CM kick off workshop public 1 session	https://twitter.com/weareGlG/status/13750697064			GIG	454
	CM kick off workshop public		25 (02 (2024	5 P.	CIC	27
	1 session 1 CM kick off workshop - RT	https://twitter.com/critical_making/status/1375050 https://twitter.com/weareGIG/status/13744612745		-	GIG	165
	Critical Making workshop - event	integration weared and stated in 157 110 127 13				10.
	1 alert	https://twitter.com/weareGIG/status/13703075820			GIG	31:
	Critical making website is live Critical Making project	https://twitter.com/weareGIG/status/13700008099	11/03/2021	English	GIG	1.590
	1 announcement thread - tweet 1 Critical Making project	https://twitter.com/weareGIG/status/13522900481	21/01/2021	English	GIG	2.950
	1 announcement thread - tweet 2 Critical Making project	https://twitter.com/weareGIG/status/13522900605	21/01/2021	English	GIG	314
	1 announcement thread - tweet 3	https://twitter.com/weareGlG/status/13522900923		-	GIG	249
	1 Critical Making kickoff - RT	https://twitter.com/weareGIG/status/13500470372		-	GIG WIF via CM	238
	Mentoring Programme Mentoring Programme	https://twitter.com/critical_making/status/1531270 https://twitter.com/critical_making/status/1523647		-	WIF via CM	753
	1 Mentoring Programme	https://twitter.com/critical_making/status/1504510		-	WIF via CM	339
	Critical Making survey (openness 1 & inclusion)	https://twitter.com/critical_making/status/1461301	17/11/2021	English	WIF via CM	413
	Critical Making at re:publica 1 announcement	https://twitter.com/bkieslinger/status/1511618393	06/04/2022	English	ZSI	12:
	1 Critical Making inclusive stories	https://twitter.com/bkieslinger/status/1521494237	03/05/2022	English	ZSI	9.
	Announcing the Critical Making mentoring programme	https://twitter.com/bkieslinger/status/1531242208	30/05/2022	English	ZSI	408
	1 EUSPRI 2022 paper promotion	https://twitter.com/bkieslinger/status/1532026042	01/06/2022	English	ZSI	12
	1 I love Critical Making Critical Making talk at re:publica	https://twitter.com/bkieslinger/status/1534895494	9 09/06/2022	English	ZSI	8:
	1 2022 Critical Making talk at re:publica	https://twitter.com/bkieslinger/status/1535180728	10/06/2022	English	ZSI	14
	1 2022 Critical Making talk at re:publica	https://twitter.com/hirbel/status/15351802156384	10/06/2022	English	TUB	10
	1 2022	https://twitter.com/aprica/status/15351813776116	10/06/2022	English	GIG	10
	1 Mentoring programme	https://twitter.com/aprica/status/15062590598292	22/03/2022	De	GIG	100
	1 rc3 talk	https://twitter.com/aprica/status/14758262114357	28/12/2021	English	GIG	100
	Sharing GIG promotion of CM 1 account	https://twitter.com/critical_making/status/1395055	19/05/2021	English	GIG (via CM)	78
	Sharing ZSI/Kieslinger promotion 1 of CM event	https://twitter.com/critical_making/status/1395055	19/05/2021	English	GIG (via CM)	8
	1 RT Mugethi Gitau	https://twitter.com/critical_making/status/1394635			GIG (via CM)	88
	1 RT Mugethi Gitau Garnet Hertz interview (Sipos &	https://twitter.com/critical_making/status/1394635	18/05/2021	English	GIG (via CM)	87
	1 Kieslimger) RT video (NB multiple retweets	https://twitter.com/critical_making/status/1385990	24/04/2021	English	GIG (via CM)	93
	1 not counted; retweet mistake) RT video (NB multiple retweets	https://twitter.com/critical_making/status/1385619	23/04/2021	English	GIG (via CM)	7
	1 not counted; retweet mistake) RT Garnet Hertz (NB multiple	https://twitter.com/critical_making/status/1385619	23/04/2021	English	GIG (via CM)	5
	retweets not counted; retweet 1 mistake)	https://twitter.com/critical_making/status/1385619	23/04/2021	English	GIG (via CM)	78
	1 RRI RT	https://twitter.com/critical_making/status/1382299	14/04/2021	English	GIG (via CM)	869
	1 Live public session promotion	https://twitter.com/critical_making/status/1375070		_	GIG (via CM)	128
	1 Live public session promotion	https://twitter.com/critical_making/status/1375070		-	GIG (via CM)	1.33!
	1 Live public session promotion1 Live public session promotion	https://twitter.com/critical_making/status/1375050 https://twitter.com/critical_making/status/1375032		_	GIG (via CM) GIG (via CM)	899 599
	Live public session promotion Live public session promotion	https://twitter.com/critical_making/status/1375023		-	GIG (via CM)	774
	1 Live public session promotion	https://twitter.com/critical_making/status/1375012		-	GIG (via CM)	2.538
	1 RT: Live public session promotion	https://twitter.com/critical_making/status/1374447	23/03/2021	English	GIG (via CM)	18
	1 Live public session promotion	https://twitter.com/critical_making/status/1371695	16/03/2021	English	WIF (via CM)	4.573

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Description / Title	Link	Date	Language	Responsible partner	reach in no. of
1 Website 1 launch	https://twitter.com/critical_making/status/1371693	16/03/2021	English	WIF (via CM)	145
1 Critical Making promotion	https://twitter.com/critical_making/status/1359468	10/02/2021	English	GIG (via CM)	83
1 RRI	https://twitter.com/critical_making/status/1359424	10/02/2021	English	GIG (via CM)	1.13
1 Open Lecture RRI	https://twitter.com/critical_making/status/1354338	27/01/2021	English	GIG (via CM)	324
1 Remaking the Maker Movement	https://twitter.com/critical_making/status/1354111	938981146624	English	GIG (via CM)	198
56	Estimation of	reach on Twitter	(retweets no	ot counted) total	52.32
veets)					
1 retweet	https://twitter.com/weareGlG/status/13522900481	21/01/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGlG/status/13522900528	21/01/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGIG/status/13522900581	21/01/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGlG/status/13522900923	21/01/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/KrastevaP/status/13501188873	15/01/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/bkieslinger/status/1349724074	14/01/2021	English	GIG (via CM)	
1 retweet			_		
1 retweet			_		
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1 retweet	https://twitter.com/Gimpelle/status/107900698463	29/12/2020	English	GIG (via CM)	
1 retweet	https://twitter.com/RRITools/status/135943061877	10/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/CStriebing/status/13576649665	05/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/CSAustria/status/13616793927	16/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/CStriebing/status/13645117053	24/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/Chihauccilconte/status/136522	26/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/JulianChambliss/status/136571	27/02/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/EU_ScienceHub/status/1367844	05/03/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/EU_ScienceHub/status/1367846	05/03/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/Jah_ras_tafari/status/13672631.	04/03/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/aprica/status/13750281232810		_	GIG (via CM)	
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1 retweet	https://twitter.com/republica/status/139286681795		_	GIG (via CM)	
1 retweet	https://twitter.com/MedAlActivist/status/13935633	15/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGlG/status/13945502839	18/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/hashtag/OpenTech?src=hashtag	18/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGIG/status/13945505073	18/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/couldrynick/status/1394551860	18/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGIG/status/13946612444	18/05/2021	English	GIG (via CM)	
1 retweet	https://twitter.com/weareGIG/status/13949143839	19/05/2021	English	GIG (via CM)	
1 retweet			_	GIG (via CM)	
1 retweet	•		_		
	<u> </u>		_		
	· ·		_		
1 retweet	https://twitter.com/JustOneGiantLab/status/143018		_		
			_	WIF (via CM) WIF (via CM)	
1 retweet		U4/ IU/ZUZ I	FURIDII	VVIF (VID CIVI)	
1 retweet	https://twitter.com/bkieslinger/status/1445069158!		_		
1 retweet	https://twitter.com/bkieslinger/status/1460595377	16/11/2021	English	WIF (via CM)	
	-	16/11/2021 24/11/2022	English English		
	1 Website 1 launch 1 Critical Making promotion 1 RRI 1 Open Lecture RRI 1 Remaking the Maker Movement 16 retweet 1 r	1 Verbesite 1 launch https://twitter.com/critical_making/status/1371693 https://twitter.com/critical_making/status/1359424 lopen Lecture RRI https://twitter.com/critical_making/status/1359424 lopen Lecture RRI https://twitter.com/critical_making/status/1359424 lopen Lecture RRI https://twitter.com/critical_making/status/1354338 https://twitter.com/critical_making/status/1354338 https://twitter.com/critical_making/status/1354338 https://twitter.com/critical_making/status/1354338 https://twitter.com/weareGIG/status/13522900528 lot retweet https://twitter.com/critical_making/status/13501188873 lot retweet https://twitter.com/krastevaP/status/13501188873 lot retweet https://twitter.com/krastevaP/status/13501188873 lot retweet https://twitter.com/krastevaP/status/13522933312944 lot retweet https://twitter.com/critical_making/status/13548032082 lot retweet https://twitter.com/critical_making/status/13548032082 lot retweet https://twitter.com/critical_making/status/13548032082 lot retweet https://twitter.com/critical_making/status/13562181277 lot retweet https://twitter.com/critical_making/status/135628026525974 lot retweet https://twitter.com/critical_making/status/13562026525974 lot retweet https://twitter.com/critical_making/status/135620361877 lot retweet https://twitter.com/critical_making/status/13562461871 lot retweet https://twitter.com/critical_making/status/13669667 lot retweet https://twitter.com/critical_making/status/136691703 lot retweet https://twitter.com/critical_making/status/13750418883 lo	Website 1 launch	Website launch	Description / Title

	Timeframe: 1 January 2021 - 30) June 2022				
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
1	retweet	https://twitter.com/bkieslinger/status/1501240445	08/03/2022		WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1511618393			ZSI	
1	retweet	https://twitter.com/RRITools/status/150112205133	08/03/2022	English	ZSI	
1	retweet	https://twitter.com/weareGlG/status/15265550698	17/05/2022	English	ZSI	
1	retweet	https://twitter.com/critical_making/status/1371695	15/03/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/critical_making/status/1375012	25/03/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/critical_making/status/1375070	25/03/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGlG/status/13847638897	21/04/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGlG/status/13854887238	23/04/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1445069158	04/10/2021	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGlG/status/15313405898	30/05/2022	English	WIF (via CM)	
1	retweet	https://twitter.com/RRITools/status/150112205133	08/03/2022	English	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1511618393		_	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1521494237		English	WIF (via CM)	
1	retweet	https://twitter.com/weareGlG/status/15247919266			WIF (via CM)	
	retweet	https://twitter.com/weareGIG	18/05/2022	-	WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15268487093			WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15265564746		-	WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15247919215		_	WIF (via CM)	
	retweet	https://twitter.com/weareGlG/status/15278772350		-	WIF (via CIVI)	
	retweet	https://twitter.com/weareGlG/status/15275446593			WIF (via CM)	
	retweet	https://twitter.com/weareGlG/status/15290936132		-	WIF (via CIVI)	
		•		_		
	retweet	https://twitter.com/weareGIG/status/15290918610			WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15313420677		_	WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15313227780			WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15313182790		_	WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15313046532			WIF (via CM)	
	retweet	https://twitter.com/bkieslinger/status/1532768919		_	WIF (via CM)	
	retweet	https://twitter.com/bkieslinger/status/1532026042		_	WIF (via CM)	
	retweet	https://twitter.com/weareGIG/status/15351939674		_	WIF (via CM)	
1	retweet	https://twitter.com/hirbel/status/153519380819072		_	WIF (via CM)	
	retweet	https://twitter.com/bkieslinger/status/1535192401		-	WIF (via CM)	
1	retweet	https://twitter.com/weareGIG/status/15351850683		_	WIF (via CM)	
1	retweet	https://twitter.com/hirbel/status/153518431164474		-	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1535180728		English	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1534895494		-	WIF (via CM)	
1	retweet	https://twitter.com/weareGIG/status/15362641575	13/06/2022	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGIG/status/15352565625	10/06/0202	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGIG/status/15352416313	10/06/0202	English	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/1535571068	11/06/2022	English	WIF (via CM)	
1	retweet	https://twitter.com/bkieslinger/status/15355676470	11/06/2022	English	WIF (via CM)	
1	retweet	https://twitter.com/critical_making/status/1537053	15/062022	English	WIF (via CM)	
1	retweet	https://twitter.com/weareGIG/status/15421121856	29/06/2022	English	WIF (via CM)	
98			Number of	retweets on	@criticalmaking	98
396	i	Estin	nation of reach o	n Social Med	ia channels total	65.558
Communication podcast, Ads	on campaign via Radio, TV,					
C)			Estimati	on of reach total	0
Flyer						
C				Estimati	on of reach total	0
Others (newslo						
a	Announcement of Critical Makin	9	15/02/2024	Footist-	701	200
	workshop	https://www.zsi.at/en/object/event/5850	15/03/2021	_	ZSI	200
	GIG News No 19	https://mailchi.mp/3a93010702cc/gig-news-no-19?		_	GIG	292
	GIG news No 18	https://mailchi.mp/a15acc03d2f2/gig-news-no-18?e		_	GIG	272
	GIG news No 15	https://mailchi.mp/e61a5691a32a/gig-news-no7-47		_	GIG	272
1	GIG news No 16	https://mailchi.mp/4258bcec4dfa/gig-news-no-15?e	10/05/2021	English	GIG	277
	Critical Making final chance to	here we have a second of the s	20/05/225	FP-1	CIC	
1	apply	https://globalinnovationgathering.org/?mailpoet_rd	30/05/2022	Eußiizu	GIG	301

	Timeframe: 1 January 2021 - 30 Ju	ine 2022				
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
1	Wikifactory news + partnership announcement	https://preview.mailerlite.com/c4d9w7/164880528	24/03/2021	English	WIF	75.518
1	Wikifactory news October 2021	https://preview.mailerlite.com/q1u7f0/1805770336	27/10/2021	English	WIF	40.763
1	Wikifactory news International Women's Day (on suggestion from Critical Making)	https://preview.mailerlite.com/l5c0v9v4n5/1901540	08/03/2022	English	WIF	41.240
1	Wikifactory news June 2022	https://preview.mailerlite.com/w3c5n8y6b9/19738	16/06/2022	English	WIF	123.563
10		Estimation o	of reach via 'Othe	rs' (mainly ne	wsletters) total	282.698
		Estimation of total number of	f people reached:	439.122		
		Total	number of posts:	397		

	Timeframe: 1 July 2022 - 30 June 2023					Estimation of
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	reach in no. of people
Website (Page:	s, Blog posts, full websites)					
1	Website sub-page at GIG	https://globalinnovationgathering.org/critical-maki	ng/	English	GIG	200
1	Website sub-page at TU Berlin	https://www.tu.berlin/arte/forschung/projekte/criti	cal-making		TUB	200
1	Website sub-page at ZSI	https://www.zsi.at/de/object/project/5798		English	ZSI	200
1	Website sub-page at VTT	https://cris.vtt.fi/en/projects/critical-making-studyi	ng-rri-principles-i	English	VTT	200
1	Community Page at WIF	https://wikifactory.com/+criticalmaking/	22/08/2022-	EN	All	5.366
14	Wikifactory Stories by Mentees	https://wikifactory.com/+criticalmaking/stories	27/04/2023	English	GIG	9.888
28	Wikifactory Stories by Project Team	https://wikifactory.com/+criticalmaking/stories		EN	All	
10	Forum at Community Page at WIF	https://wikifactory.com/+criticalmaking/		English	All	
			01/07/2023-			
	Project Website	https://criticalmaking.eu	30/06/2023	English	WIF	2.248
	Blog Article on Critical Making Mentoring	https://globalinnovationgathering.org/2022/03/17/		English	GIG	200
	Blog Article on Critical Making Framework	https://globalinnovationgathering.org/2022/09/23/		English	GIG	200
	Blog Article on Bali FabFest	https://globalinnovationgathering.org/2022/10/28/		English	GIG	200
	Blog Article on Junge Tüfler*innen	https://globalinnovationgathering.org/2022/10/31/		English	GIG	200
1	Blog Article on SparkleLab	https://globalinnovationgathering.org/2023/04/11/	11/04/2023	English	GIG	200
1	Blog Article on BiT Makerspace	https://globalinnovationgathering.org/2023/04/18/	18/04/2023	English	GIG	200
1	Blog Article on FabLab Nepal	https://globalinnovationgathering.org/2023/05/01/	01/05/2023	English	GIG	200
1	Blog Article on Noni Hub	https://globalinnovationgathering.org/2023/05/08/	08/05/2023	English	GIG	200
1	Blog Article on Science Camp	https://globalinnovationgathering.org/2023/05/17/	17/05/2023	English	GIG	200
1	VTT: Research Output	https://cris.vtt.fi/en/publications/critical-making-re	sponsibility-fram	ework-extending	VTT	1.000
	VTT: Research Output	https://cris.vtt.fi/en/publications/reshaping-rri-keys		EN	VTT	1.000
1	Manifesto	https://manifesto.criticalmaking.eu/	2023	EN	TUB	100
1	Game: UNBOXING	https://play.criticalmaking.eu/	2023	EN		100
71					n of reach total	22.302
Press releases	(=Mailing sent to journalists)					
0				Estimatio	n of reach total	0
Video/film 1	Fireshonks Presentation	https://media.ccc.de/v/fire-shonks-2022-49270-ges	30/12/2022	DE	ZSI	100
	Critical Making Mentoring Kick-off Session – Livestrea		08/09/2022	English	GIG	131
	Critical Making Mentoring Programme Kick-off event		23/09/2022	English	GIG	24
	Make Things that Make Sense - Saad Chinoy	youtu.be/oVHZ9hIhlvY	23/09/2022	English	GIG	72
	Share How You Make It - Emílio Velis		07/10/2022	_	GIG	116
		youtu.be/IUZ_b_ps_io		English	GIG	85
	Build for continuity - Bahar Kumar	youtu.be/eQyPO3y3YIM	02/12/2022	English		
	Integrate Local Knowledge - Georgia Nicolau	youtu.be/oEvpPfRWkgs	16/12/2022	English	GIG	91
	Critical Making Mentorship Demo Week - Day 1	youtu.be/LuJ8SvmUfqs	20/03/2023	English	GIG	37
	Critical Making Mentorship Demo Week - Day 2	youtu.be/kwBud1W3O-g	20/03/2023	English	GIG	15
	Critical Making Mentorship - #ROSHOP Modular Hou		21/03/2023	English	GIG	15
1	Critical Making Mentorship - Digital Sthetoscope by J.	youtu.be/q47z7kj1Lkg	21/03/2023	English	GIG	10
1	Critical Making Mentorship - DIY Ultra Bass Amplifier	youtu.be/XOOYzT3zQoI	21/03/2023	English	GIG	9
1	Critical Making Mentorship - Eco-star extension cable	youtu.be/_MR7RRzpwFs	21/03/2023	English	GIG	11
1	Critical Making Mentorship - STEM Water Filtration K	youtu.be/ZGxVv5gyoEA	22/03/2023	English	GIG	23
1	Critical Making Mentorship - Gravity-fed Modular Irri	youtu.be/pibnm8Mz2Ac	22/03/2023	English	GIG	8
	Women in Engineering: What are the barriers and					
	opportunity for greater participation in 2023 and		22/04/225	E. altal	\A#E	
	future	https://www.youtube.com/watch?v=N3PNjNB-G2s8		English	WIF	150
	Mentoring: Ecosystem Services - Aravinth Panch		13/06/2023	English	GIG	17
	Critical Making - Build your own flashlight	https://www.youtube.com/watch?v=E4OWXI0p4hw		English	TUB	33
1	Critical Making - Knowledge Pills	https://www.youtube.com/watch?v=3nyK1jSCZZo	27/02/2023	English	ZSI	25
19				Estimatio	n of reach total	972
.,						-,-
Scientific (http	os://zenodo.org/search?page=1&size=20&q=critical	%20making)				
	Critical Making Responsibility Framework. Extending an Academic Proposal to Support Reflexivity in Maker Communities. FAB17: Proceedings of the MIT FAB17 Fab Fest Bali Academic Conference. This submission received					
	"Best Paper Award". Introducing the Critical Making Responsibility Framework for Analyzing Responsible Innovation Processes in Grassroots Practices. In: Innovation: The European Journal of Social Science Research.	https://zenodo.org/record/7432068#.ZEj5By9n6i7		English	TUB, VTT, ZSI	313
	2023 Openness of making as a social innovation: globally connected, locally acting maker communities for social change in the Global South	https://www.tandfonline.com/doi/abs/10.1080/135	2022	English English	TUB, VTT	60
3	-	20	_020 2024	_	n of reach total	373
3				Latinatio	or reach total	3/3

	Timeframe: 1 July 2022 - 30 June 2023					Estimation of
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	reach in no. of people
	(Published by others about us)			zungunge	pai tiiti	poopio
	The Purchaser - Interview with Christina Rebel, ment	https://www.stroudandclarke.com/magazine/the-p	10/08/22	English	WIF	30.00
1	Authority Magazine, Interview with Christina Rebel, s	https://medium.com/authority-magazine/inspiration	24/11/22	English	WIF	1.000
1	European Year of Skills	https://rea.ec.europa.eu/rea-fosters-excellence-sci	4/5/23	EN		1.000
	Austrian newspaper article (print & online):	https://www.diepresse.com/6193882/macher-				
	Macher, Macker, Mentoring	macker-und-mentoring	24/09/2022	German	ZSI	30.000
4				Estimatio	n of reach total	62.000
Casial mandin (l	Donto months are avanted about the musicati					
	Posts partners created about the project)					
Instagram	Critical Making Mentoring Kick Off Save the Date	https://www.instagram.com/p/Ch7fxUWq4LJ/	31/08/2022	English	GIG	150
	Critical Making Mentoring Kick Off Save the Date	https://www.instagram.com/p/Cit/Sy4Ds5Zt/	06/09/2022	English	GIG	15
	Critical Making Mentoring Kick Off	https://www.instagram.com/p/ciMrH6pijSc/	07/09/2022	English	GIG	103
	Critical Making mentoring workshop: Saad Chinoy	https://www.instagram.com/p/CiXPXQRuWx8/	06/10/2022	English	GIG	143
	Critical Making mentoring workshop: Emilio Velis	https://www.instagram.com/p/CjkoTJdOxEz/	11/10/2022	English	GIG	10
	Critical Making at Bali FabFest	https://www.instagram.com/p/Cj2ot4msnKj/	18/10/2022	English	GIG	120
	Critical Making Mentorship Story: Zara Burton	https://www.instagram.com/p/CkN3bfts_6Z/	27/10/2022	English	GIG	66
	Critical Making Mentorship Story: Ira Emmanuel	https://www.instagram.com/p/CkQRjuNsioC/	28/10/2022	English	GIG	69
	Critical Making Inclusive Makers Catalogue	https://www.instagram.com/p/CkOl79HMhGv/	28/10/2022	English	GIG	199
	Critical Making mentoring workshop: Bahar Kumar	https://www.instagram.com/p/CljJyutMq2p/	29/11/2022	English	GIG	86
	Critical making inclusivity guide	https://www.instagram.com/p/CloF4LPuecW/	01/12/2022	English	GIG	6
	Gender-inclusive making: XXLab @HONF Foundation		05/12/2022	English	GIG	58
	Critical Making mentoring workshop: Georgia Nicola	1 0 1 7	15/12/2022	English	GIG	6
	Critical Making Mentorship Story #1	https://www.instagram.com/p/CnMoKpeszxK/	09/01/2023	English	GIG	99
	Inclusive Makers Feature: Gabriela Agustini	https://www.instagram.com/p/CnziiZUMIE9/	25/01/2023	English	GIG	265
	Inclusive Makers Feature: Katrin Batko	https://www.instagram.com/p/CoXkT4ysETe/	08/02/2023	English	GIG	8
	Critical Making Demo Week Outreach #1	https://www.instagram.com/p/CpKtwBiqnBe/	27/02/2023	English	GIG	117
	Inclusive Makers Feature: Shrilakshmi Desiraju	https://www.instagram.com/p/CpNhTigs2R1/	28/02/2023	English	GIG	90
	Inclusive Makers Feature: Rebeca Duque Estrada	https://www.instagram.com/p/CqVDN1yMQZh/	28/03/2023	English	GIG	170
	Inclusive Makers Feature: Christine Kutwa	https://www.instagram.com/p/CrQ1Rw3sI4T/	20/04/2023	English	GIG	9:
1	Inclusive Makers Feature: Gertrude Mawuena Goh	https://www.instagram.com/p/Crxnk1PsOWU/	03/05/2023	English	GIG	92
	Critical Making Demo Week Wrap Up	https://www.instagram.com/p/Cr05Kt-MGpQ/	05/05/2023	English	GIG	127
	Youth Education in Maker Spaces Interview Series					
1	#1	https://www.instagram.com/p/Cr-cgO5smeh/	08/05/2023	English	GIG	93
	Youth Education in Maker Spaces Interview Series	hundre to the second of the se	4.6.(05.(2022	E. B.b	CIC	407
ı	#2	https://www.instagram.com/p/CsTFgKOs_ia/	16/05/2023	English	GIG	187
1	Youth Education in Maker Spaces Interview Series #3	https://www.instagram.com/p/CsikYWrszNm/	22/05/2023	English	GIG	160
	Youth Education in Maker Spaces Interview Series					
1	#4	https://www.instagram.com/p/CtzNKNtLQY0/	23/06/2023	English	GIG	178
1	Women in Engineering: What are the barriers and or	https://www.instagram.com/p/CpiJLvJsYbn/?utm_so	08/03/2023	English	WIF	188
27	7		Estim	ation of reach on	Instagram total	3.334
LinkedIn						
4	Oldie but goldie: #wearegig Critical Making	hater of the control	24 (00 (2022	Faaliah	CIC	10.
	Educational meeting report	https://www.linkedin.com/posts/global-innovation- https://www.linkedin.com/posts/global-innovation-		English	GIG	104
	Critical Making Mentoring Kick Off Save the Date Critical Making Mentoring Kick Off Reminder	https://www.linkedin.com/posts/global-innovation-		English	GIG	300 140
	0 0	https://www.linkedin.com/posts/global-innovation-		English		24
	Critical Making Mentoring Kick Off Critical Making Mentoring Kick Off Video Sharing	https://www.linkedin.com/posts/global-innovation-		English English	GIG	86
	Critical Making mentoring workshop: Saad Chinoy	https://www.linkedin.com/posts/global-innovation-		English	GIG	188
	Critical Making mentoring workshop: Emilio Velis	https://www.linkedin.com/posts/global-innovation-		English	GIG	146
	Critical Making Mentorship Story: Zara Burton	https://www.linkedin.com/posts/global-innovation-		English	GIG	123
	Critical Making Mentorship Story: Ira Emmanuel	https://www.linkedin.com/posts/global-innovation-		English	GIG	232
	Critical Making Inclusive Makers Catalogue	https://www.linkedin.com/posts/global-innovation-		English	GIG	136
	Critical Making at Bali FabFest	https://www.linkedin.com/posts/global-innovation-		English	GIG	230
	Critical Making Mentorship Story: Maliamungu Richa			English	GIG	34
	Critical Making mentoring workshop: Bahar Kumar	https://www.linkedin.com/posts/global-innovation-		English	GIG	130
	Critical making inclusivity guide	https://www.linkedin.com/posts/global-innovation-		English	GIG	20:
	Gender-inclusive making: XXLab @HONF Foundation			English	GIG	129
	Critical Making mentoring workshop: Georgia Nicola			English	GIG	15
	Critical Making mentoring program workshops	https://www.linkedin.com/posts/global-innovation		English	GIG	18:
	Inclusive Makers Feature: Gabriela Agustini	https://www.linkedin.com/posts/global-innovation-		English	GIG	280
	Inclusive Makers Feature: Katrin Batko	https://www.linkedin.com/posts/global-innovation-		English	GIG	1.10
	Critical Making Demo Week Outreach #1	https://www.linkedin.com/posts/global-innovation-		English	GIG	14
	Inclusive Makers Feature: Shrilakshmi Desiraju	https://www.linkedin.com/posts/global-innovation		English	GIG	12!
	Critical Making Demo Week Outreach #2	https://www.linkedin.com/posts/global-innovation		English	GIG	114
	Inclusive Makers Feature: Rebeca Duque Estrada	https://www.linkedin.com/posts/global-innovation		English	GIG	162
	Caretaker and child-inclusive making activities	https://www.linkedin.com/posts/global-innovation-		English	GIG	177
	Inclusive Makers Feature: Christine Kutwa	https://www.linkedin.com/posts/global-innovation-		English	GIG	176
	Inclusive Makers Feature: Gertrude Mawuena Goh	https://www.linkedin.com/posts/global-innovation-		English	GIG	204
		- International Property of the Property of th		J	-	0

Amount of	Description (7th)	Date	Date	Lacron	Responsible	Estimation of reach in no. of
Posts	Description / Title	Link	Date	Language	partner	people
	Critical Making Demo Week Wrap Up Youth Education in Maker Spaces Interview S	https://www.linkedin.com/posts/global-innovation	- 05/05/2023	English	GIG	18!
	1 #1	https://www.linkedin.com/posts/global-innovation	- 08/05/2023	English	GIG	1.613
	Youth Education in Maker Spaces Interview S					
	1 #2	https://www.linkedin.com/posts/global-innovation		English	GIG	7
	1 TIPE Conference: Critical Making	https://www.linkedin.com/feed/update/urn:li:activ	i 1/25/2023	English	WIF	62
	Roundtable: Challenges & Opportunities for 3 Women in Engineering in 2023 and our futurence.		i 21/08/2023	English	WIF	2.13
	1 Critical Making course	https://www.linkedin.com/posts/siposregina_critic		ENglish	TUB	25
	1 Critical Making at re:publica	https://www.linkedin.com/posts/siposregina_i-tho		ENglish	TUB	25
	1 Critical Making Game	https://www.linkedin.com/posts/siposregina_der-	01/06/2023	EN	TUB	25
	1 Critical Making framework	https://www.linkedin.com/posts/siposregina_intro	01/05/2023	EN	TUB	25
	1 Fab Paper published	https://www.linkedin.com/posts/siposregina_wha	01/12/2022	EN	TUB	38
	1 Fab Paper announced	https://www.linkedin.com/posts/siposregina_critic	a 01/07/2022	EN	TUB	44
	1 Bahar Kumar	https://www.linkedin.com/feed/update/urn:li:activ	i 01/09/2022	EN	GIG	10
	1 European Year of Skills	https://www.linkedin.com/posts/european-resear	05/23	EN		46
	1 Gender Workshop	https://www.linkedin.com/posts/suli-innovation-h		EN		32
	1 Gender Workshop	https://www.linkedin.com/posts/mathew-lubari_c		EN		13
	43		Estimation of reach on LinkedIn total			13.01
Facebook	1 Oldie hut goldie: #wearegig Critical Making 5	ducation https://www.facebook.com/wearegig/posts/32358	231/08/2022	English	GIG	36
	Critical Making Mentoring Kick Off Save the I			English	GIG	1.84
	Critical Making Mentoring Rick Off Save the L Critical Making Mentoring Kick Off Reminder			English	GIG	5
	Critical Making Mentoring Rick Off Critical Making Mentoring Kick Off	https://www.facebook.com/watch/?v=4681450018		English	GIG	9:
	Critical Making Mentoring Kick Off Video Sha Critical Making Mentoring Kick Off Video Sha			English	GIG	2
	1 Critical Making mentoring workshop: Saad C			English	GIG	7:
	1 Critical Making mentoring workshop: Emilio			English	GIG	2
	1 Critical Making Mentorship Story: Zara Burto	https://www.facebook.com/wearegig/photos/a.15	27/10/2022	English	GIG	42
	1 Critical Making Mentorship Story: Ira Emmar	https://www.facebook.com/wearegig/photos/a.15	28/10/2022	English	GIG	6.
	1 Critical Making Inclusive Makers Catalogue	https://www.facebook.com/wearegig/photos/a.15	28/10/2022	English	GIG	94
	1 Critical Making at Bali FabFest	https://www.facebook.com/wearegig/photos/a.15	16/11/2022	English	GIG	6!
	1 Critical Making Mentorship Story: Maliamun	gu Richa https://www.facebook.com/wearegig/photos/a.15	17/11/2022	English	GIG	14!
	1 Critical Making mentoring workshop: Bahar			English	GIG	119
	1 Critical making inclusivity guide	https://www.facebook.com/wearegig/photos/a.15		English	GIG	189
	-	ındation https://www.facebook.com/wearegig/photos/a.15		English	GIG	50
		a Nicola https://www.facebook.com/wearegig/photos/a.15		English	GIG	17
	1 Critical Making mentoring program worksho			English	GIG	269
	Inclusive Makers Feature: Gabriela Agustini Inclusive Makers Feature: Katrin Batko	https://www.facebook.com/wearegig/photos/a.28 https://www.facebook.com/wearegig/photos/a.28		English English	GIG	483
	Critical Making Demo Week Outreach #1	https://www.facebook.com/wearegig/photos/a.26		English	GIG	440
	Inclusive Makers Feature: Shrilakshmi Desira			English	GIG	8!
	1 Critical Making Demo Week Outreach #2	https://www.facebook.com/wearegig/photos/a.15		English	GIG	53
	1 Inclusive Makers Feature: Rebeca Duque Est			English	GIG	160
	Caretaker and child-inclusive making activitie			English	GIG	115
	1 Inclusive Makers Feature: Christine Kutwa	https://www.facebook.com/wearegig/photos/a.28	20/04/2023	English	GIG	66
	1 Critical Making post on Wikifactory roundtab	https://www.facebook.com/wearegig/photos/a.15	20/04/2023	English	GIG	43
	1 Inclusive Makers Feature: Gertrude Mawuen	a Goh https://www.facebook.com/wearegig/photos/a.28	03/05/2023	English	GIG	389
	1 Critical Making Demo Week Wrap Up	https://www.facebook.com/watch/?v=1500376578	6 05/05/2023	English	GIG	61
	Youth Education in Maker Spaces Interview S		C 00 (0F (2022	Faaliah	CIC	4'
	1 #1 Youth Education in Maker Spaces Interview 9	https://www.facebook.com/wearegig/posts/34290	00/03/2023	English	GIG	42
	1 #2	https://www.facebook.com/wearegig/posts/pfbid0	16/05/2023	English	GIG	117
	Youth Education in Maker Spaces Interview S	Series				
	1 #3	https://www.facebook.com/photo/?fbid=5677905	22/05/2023	English	GIG	67
	Youth Education in Maker Spaces Interview 5		2 22/06/2022	English	GIG	108
	Roundtable: Challenges & Opportunities for	https://www.facebook.com/photo?fbid=58672743	23/00/2023	English	GIG	108
	2 Women in Engineering in 2023 and our futur		02/03/2023	English	WIF	911
	0 0					
1	Critical Making Mentoring whatsapp group (amount of posts = only media, links + docs shared in the gr	oup, not all pos	sts) EN	GIG	22
1	171		Estim	nation of reach	on Facebook total	6.990
Twitter						
1	152 Critical Making Twitter Account	twitter.com/critical_making	1/7/2022- 30/06/2023	EN	GIG	20.657
	-	ducation https://twitter.com/weareGIG/status/1564870689		English	GIG	167
	Critical Making 2022 Cohort & their projects	https://twitter.com/weareGIG/status/15648/0689		English	GIG	120
	Critical Making 2022 Conort & their projects Critical Making Mentoring Kick Off Save the I			English	GIG	199
	Critical Making Mentoring Kick Off Reminder Critical Making Mentoring Kick Off Reminder			English	GIG	62
	Critical Making Mentoring Kick Off Critical Making Mentoring Kick Off	https://twitter.com/weareGIG/status/1567406579		English	GIG	188
	Critical Making Mentoring Kick Off Video Sha Critical Making Mentoring Kick Off Video Sha			English	GIG	142
	1 Critical Making mentoring workshop: Saad C			English	GIG	84
	1 Critical Making mentoring workshop: Emilio			English	GIG	370

	Timeframe: 1 July 2022 - 30 June 2023					
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people
1	Critical Making at Bali FabFest #1	https://twitter.com/weareGlG/status/15859686150	28/10/2022	English	GIG	162
1	Critical Making Mentorship Story: Ira Emmanuel	https://twitter.com/weareGIG/status/15859364172	28/10/2022	English	GIG	143
1	Critical Making Inclusive Makers Catalogue	https://twitter.com/weareGIG/status/15859043249	28/10/2022	English	GIG	182
	Critical Making at Bali FabFest #2	https://twitter.com/weareGlG/status/15928048004		English	GIG	52
	Critical Making Mentorship Story: Maliamungu Richa			English	GIG	109
	Critical Making mentoring workshop: Bahar Kumar	https://twitter.com/weareGIG/status/15976029483		English	GIG	262
	Critical making inclusivity guide	https://twitter.com/weareGIG/status/15983029026		English	GIG	44
	Gender-inclusive making: XXLab @HONF Foundation			English	GIG	63
	Critical Making mentoring workshop: Georgia Nicola	<u> </u>		English	GIG	184
	Critical Making mentoring workshop Reminder: Geo	https://twitter.com/weareGIG/status/16037217211 https://twitter.com/weareGIG/status/16087671003		English English	GIG	102 210
	Critical Making mentoring program workshops Inclusive Makers Feature: Gabriela Agustini	https://twitter.com/weareGIG/status/16179329446		English	GIG	120
	Inclusive Makers Feature: Katrin Batko	https://twitter.com/weareGIG/status/16232575710		English	GIG	248
	Inclusive Makers Feature: Shrilakshmi Desiraju	https://twitter.com/weareGIG/status/16305956063		English	GIG	679
	Inclusive Makers Feature: Rebeca Duque Estrada	https://twitter.com/weareGIG/status/16406649651		English	GIG	287
	Inclusive Makers Feature: Christine Kutwa	https://twitter.com/weareGIG/status/16490809431		English	GIG	83
1	Critical Making post on Wikifactory roundtable	https://twitter.com/weareGlG/status/16490633901	20/04/2023	English	GIG	41
1	Knowledge pills: Critical Making	https://twitter.com/weareGlG/status/16490621478	20/04/2023	English	GIG	55
1	Inclusive Makers Feature: Gertrude Mawuena Goh	https://twitter.com/weareGlG/status/16536904710	03/05/2023	English	GIG	207
1	Critical Making Demo Week Wrap Up	https://twitter.com/weareGlG/status/16541531279	04/05/2023	English	GIG	179
1	Nidhi	https://twitter.com/weareGIG/status/16591410299	18/05/2023	EN	GIG	321
1	Hands on	https://twitter.com/weareGIG/status/16660940055	06/06/2023	EN	GIG	242
1	Inclusive Makers Feature: Nidhi Mittal	https://twitter.com/weareGIG/status/16591410299	18/05/2023	English	GIG	318
1	Critical Making Mentoring Programme	https://twitter.com/bkieslinger/status/1567487779	07/09/2022	English	ZSI	84
1	Announcing Critical Making mentoring talk	https://twitter.com/bkieslinger/status/1597606763	22/11/2022	English	ZSI	80
1	Announcing Critical Making demo week	https://twitter.com/bkieslinger/status/1631334012	02/03/2023	English	ZSI	195
1	Critical Making Framework article	https://twitter.com/bkieslinger/status/1650460705	24/04/2023	English	ZSI	50
	Critical Making at HASTAC	https://twitter.com/bkieslinger/status/1653661425		English	ZSI	448
	Announcing Critical Making zine	https://twitter.com/bkieslinger/status/1665979984		English	ZSI	76
1	Critical Making presentation at HASTAC	https://twitter.com/bkieslinger/status/1666844080	08/06/2023	English	ZSI	187
3	Roundtable: Challenges & Opportunities for Women in Engineering in 2023 and our future	https://twitter.com/wikifactory/status/1633494536	08/03/2023	English	WIF	713
	Women in Engineering in 2023 and our latere	The pain time control in Minimaccon y state as 1000 15 1000	1/7/2022-	2.18.1311		7.13
20	Critical Making Retweets	misc	30/06/2023	English	WIF	400
213		Estimation of	reach on Twi	tter (retweets n	ot counted) total	28.511
565		Fast				
		ESTII	nation of reac	h on Social Med	lia channels total	51.849
		ESUI	nation of reac	h on Social Med	lia channels total	51.849
Communicatio	on campaign via Radio, TV, podcast, Ads	ESTI	nation of reac	h on Social Med	lia channels total	51.849
Communicatio	on campaign via Radio, TV, podcast, Ads	ESU	nation of reac		ion of reach total	51.849
	on campaign via Radio, TV, podcast, Ads	ESU	nation of reac			
0	on campaign via Radio, TV, podcast, Ads	ESU	nation of reac			
0 Flyer (anythin į	on campaign via Radio, TV, podcast, Ads	ESU	nation of reac			0
0 Flyer (anythin į 1	on campaign via Radio, TV, podcast, Ads g printed)	ESU	nation of reac	Estimat EN EN	ion of reach total	100 250
0 Flyer (anythin 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English	ESU	nation of reac	Estimat EN EN EN	ion of reach total TUB VTT ZSI	100 250 100
0 Flyer (anything 1 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker	ESU	nation of reac	Estimat EN EN EN EN	TUB VTT ZSI GIG	100 250 100 250
0 Flyer (anythin ₁ 1 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker Flashlight Brochure	ESU	nation of reac	Estimat EN EN EN EN EN	TUB VTT ZSI GIG TUB	100 250 100 250 100
0 Flyer (anything 1 1 1 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker Flashlight Brochure Guidelines Education	ESU	nation of reac	Estimat EN EN EN EN EN	TUB VTT ZSI GIG TUB TUB	100 250 100 250 100 50
O Flyer (anything 1 1 1 1 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker Flashlight Brochure Guidelines Education Guidelines Openness	ESU	nation of reac	Estimat EN EN EN EN EN EN	TUB VTT ZSI GIG TUB TUB TUB GIG	100 250 100 250 100 50 250
0 Flyer (anything 1 1 1 1 1	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker Flashlight Brochure Guidelines Education Guidelines Openness	ESU	nation of reac	Estimat EN EN EN EN EN EN	TUB VTT ZSI GIG TUB TUB	100 250 100 250 100 50 250
0 Flyer (anything 1 1 1 1 1 1 7	g printed) Manifesto Poster Game Postcard Guidelines Gender Brochure English Flashlight Sticker Flashlight Brochure Guidelines Education Guidelines Openness	ESU	nation of read	Estimat EN EN EN EN EN EN	TUB VTT ZSI GIG TUB TUB TUB GIG	100 250 100 250 100 50 250
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	Timeframe: 1 July 2022 - 30 June 2023						
Amount of Posts	Description / Title	Link	Date	Language	Responsible partner	Estimation of reach in no. of people	
1	Critical Making Podcast: Bezawork Tilahun Mindaye	https://archive.org/details/auphonic-bezawork-inte	06/04/2023	EN	GIG	57	
1	Critical Making Podcast: Pradita Pradham	https://archive.org/details/pradita-final-interview	06/04/2023	EN	GIG	20	
1	Critical Making Podcast: Rosanna Lopez	https://archive.org/details/auphonic-rosanna-inter	06/04/2023	EN	GIG	36	
1	WIF Newsletter: Women in Engineering Day	https://preview.mailerlite.com/b5l2c1x2w3	23/06/2023	EN	WIF	12.075	
17	Estimation of reach via 'Oth			Others' (mainly newsletters) total		31.468	
		Estimation of total number of p	people reached:	170.064			
		Total n	umber of posts:	565			