THE NUCLEUS PROJECT AND THE MOBILE NUCLEI

Bringing RRI to Life





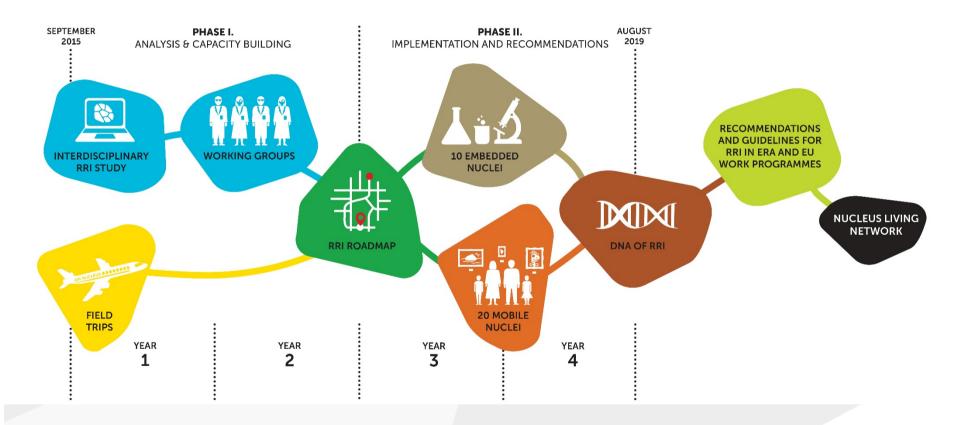
New Understanding of, Communication, Learning and Engagement in Universities and Scientific institutions



NUCLEUS



THE NUCLEUS PROJECT





30 RRI Petri Dishes

20 Mobile NUCLEI Modular RRI approaches like workshops, trainings,



OUR GOALS ARE WORK PACKAGE 5



...catalyse ongoing debates about the role

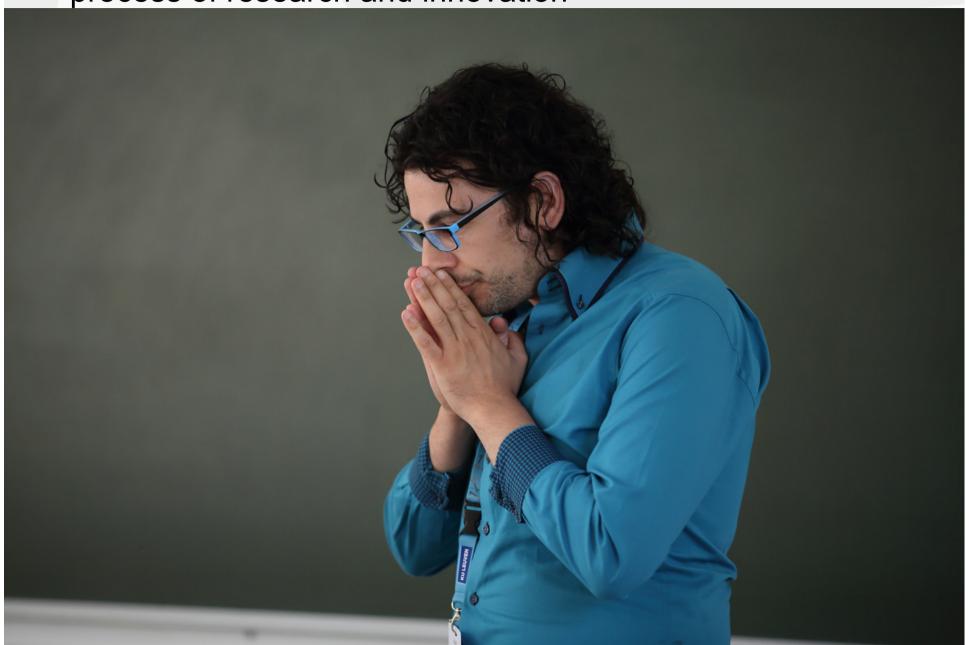
of research in open societies



....develop, nurture and support new forms of transdisciplinary



...Stimulate co-responsibility of all actors involved in the process of research and innovation



And question or redefine prevailing notions about science agents and recipients



"If you always do what you always did,

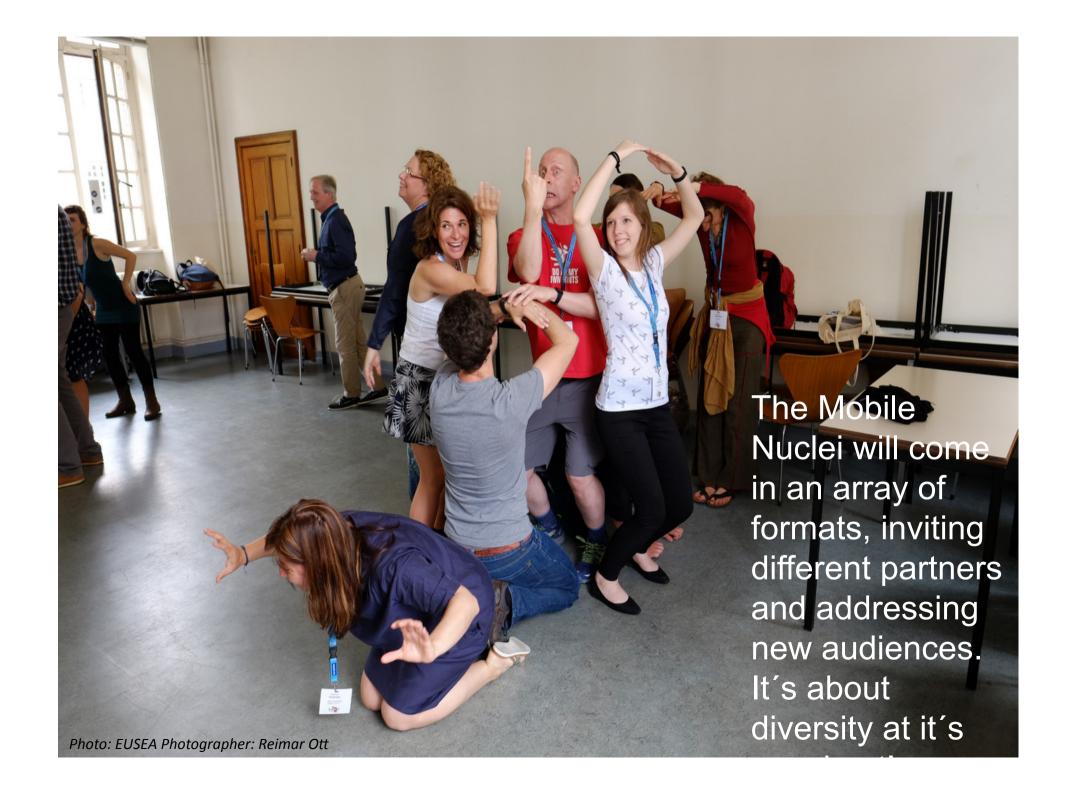
you will always get what you always got."

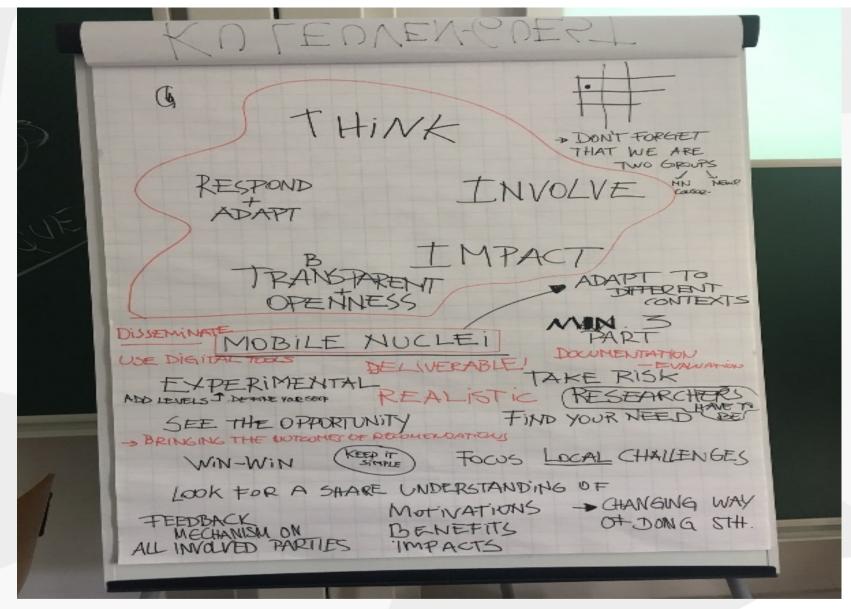
Albert Einstein



WHAT IS A MOBILE NUCLEUS?

- A "Mobile Nucleus" is a co-creative activity involving multiple stakeholders
- Conducted within an event that the host normally organises.
- It can also be considered as an enlargement or a further development of an existing activity.





What we have done so far...



We have gathered a community of practitioners that aims to turn into a Community of Practice

- City of Bochum, DE
- City of Nottingham, UK
- City of Hannover, DE
- Blackrock Castle, IE
- Festival of Curiosity, IE
- Calmast, IE
- Fundació Catalá, ES

- City of Bielfeld, DE
- Ciencia Viva, PT
- Science in Public, SE
- Delft University, NL
- Psiquadro, IT
- IBM, IE
- Sanger Institute, UK
- Ilia State University, Tbilisi Bristol Natural History
- Bast, China

Consortium UK

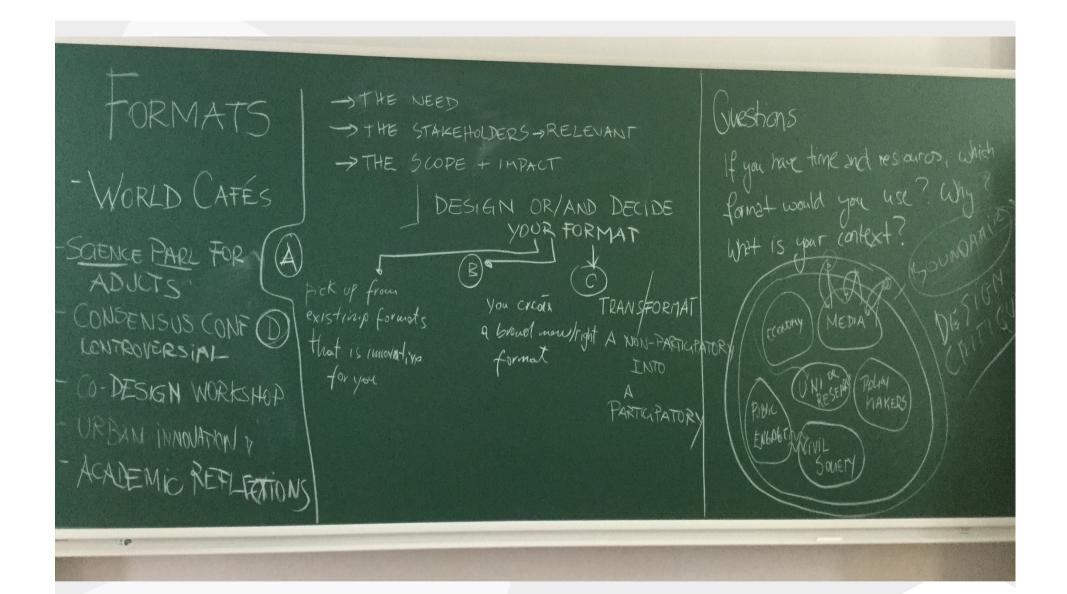
University of Wroclaw



First Workshop in Leuven









The "Leuven declaration"

- 1. Start from the needs you have, your local challenges and shared motivations
- 2. Researchers are essential: Think which other stakeholders could be relevant
- 3. Decide the scope and the impact you want to provoke
- 4. Take risks and experiment. See Mobile Nuclei as an opportunity to try something new
- 5. Keep it simple (resources are limited)
- 6. Think of the six cells: Media, Economy, Public Engagement, Civil Society and Policy Makers and University and try to bring the relevant ones to your need.
- 7. Run your Mobile Nuclei as a test bed. Repeat it when you consider it successful.
- 8. Save evidence and report on the outcomes and impact

Pick up form an existing format that is innovative for you

You create a brand-new format

You create a
TransFormat: a nonparticipatory format
into a participatory one



- (1)Build institutional bridges between the research community, stakeholders and general public
 - (2)Catalyze ongoing debates about the role of science in open societies
- (3)Develop, nurture and support new forms of transdisciplinary research including RR principles in the scientific community
 - (4)Stimulate co-responsibility of all actors involved in the process of research and innovation
- (5) Question and redefine prevailing notions of "recipients" and "agents"



THE NUCLEUS APPROACH

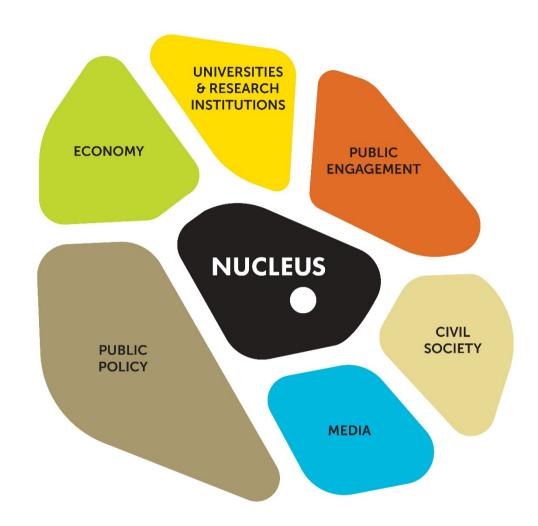
EACH ACADEMIC INSTITUTION IS LIKE A "CELL" - A DISTINCT INDIVIDUAL ORGANISM

.....

THE NUCLEUS IS RESPONSIBLE FOR THE CELL'S DEVELOPMENT AND GROWTH

.....

A CELL CAN PERFORM LARGER AND MORE COMPLEX TASKS IN A CLUSTER WITH OTHER CELLS.





Rec. 1: Relation management between Universities and societal actors

Rec. 2: Incentives

Rec. 3: Language of RRI

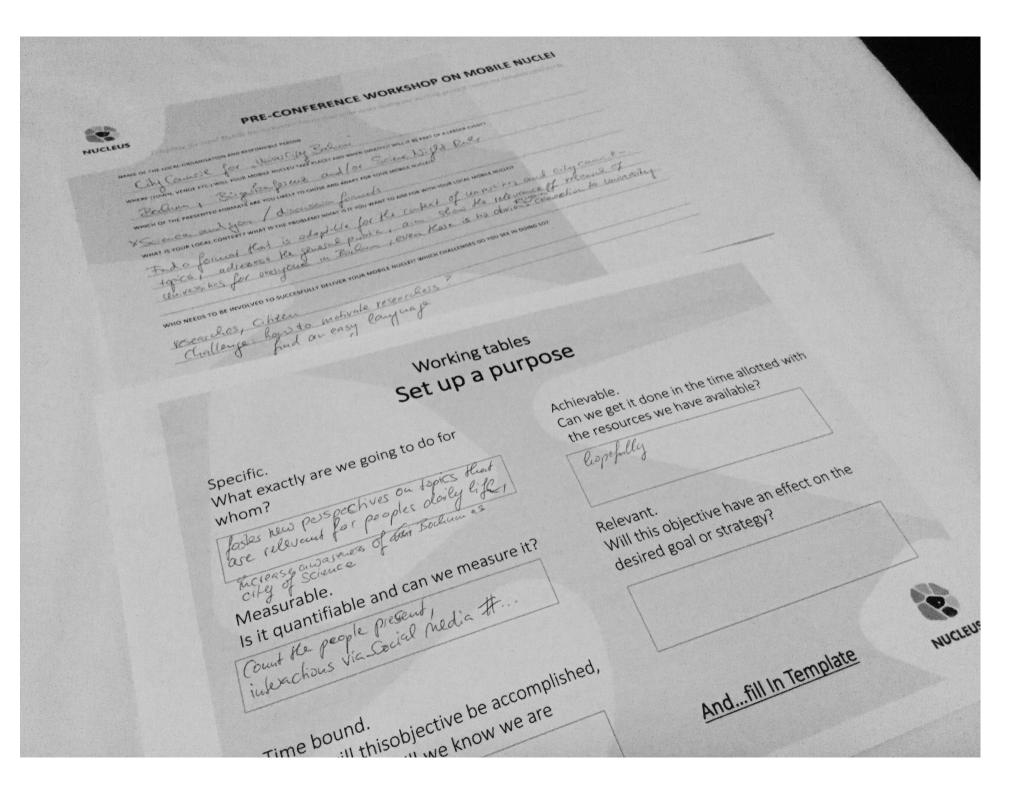
Rec. 4: Self-assessment

Rec. 5:Training

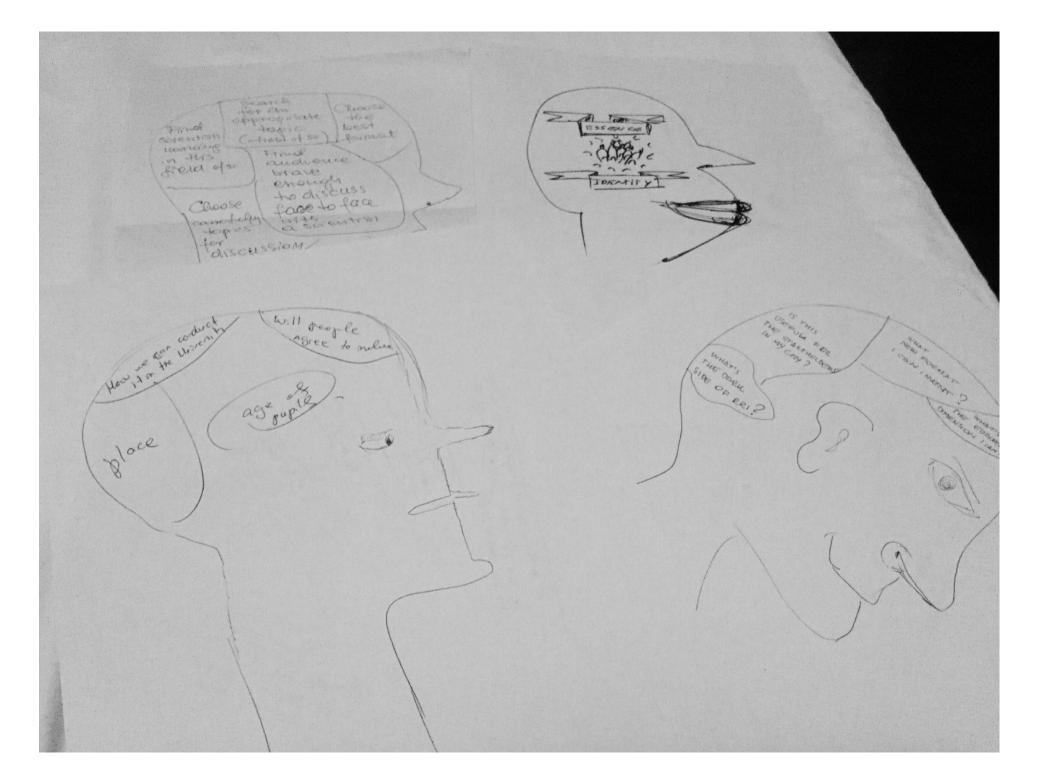
Rec. 6: Local Knowledge











Name	Туре
1.RRI Training for researchers and scientists. Kind of "Quick start guide in RRI" or "RRI Basecamp, getting a grip of the basics" (and more)	Training
2.Science and you: installation to collect peoples' connections/expectations/feelings to science.	Installation
3.Hackatons on real problems in cities	Co-design
4.RRI stakeholder workshop: open discussions for close collaborations- (Mapping and navigation sketch)	Open discussion
5.Pop-up Science Shop on specific issues	Co-design
6.Discussion formats for citizens: Fish bowl / Reverse science café	Open discussion
7. Design thinking experience	Co-design



"RRI Basecamp: a quick-start RRI Training"

a mindset, not an activity

RESPONSIBLE RESEARCH AND INNOVATION: THE WHY, WHAT AND HOW?

The research and innovation community has major responsibilities within society, but politicians, industry representatives, and citizens can't leave the full burden on scientists' shoulders. RRI addresses the fact that the different strands of society must establish a common direction and collaborate to set research agendas that take us there. Non-scientists hold important knowledge, opinions and ideas for improving science's position in society and RRI encourages all stakeholders to work together to solve societal challenges.

RRI is a framework, which means that positive outcomes are important, but so is the journey; empowering responsible stakeholders and finding sustainable answers to big challenges are the end goals, but ensuring the processes that get you there are genuinely inclusive and transparent are equally critical.

Excitingly, RRI is still developing as a concept. Given the stress it places on widening participation in science, technology, and innovation, you may not be surprised that a broad range of perspectives are needed to help define RRI itself and build tools for this field. That's where you come in.

Science engagement organisations already actively contribute to RRI's many agendas – science education, public engagement, open access, ethics, gender, and policymaking – through collaboration with stakeholders ranging from industry representatives, to school teachers and politicians. However, by understanding the RRI approach, you will be able to consistently push your organisation's efforts even further.



Photo: RRI Tools Blog

"RRI Basecamp: a quick-start RRI Training"





Photo: RRI Tools Blog

Are you comfortable with the way knowledge is produced? Do you fully understand it?



"Installation: Science and You";

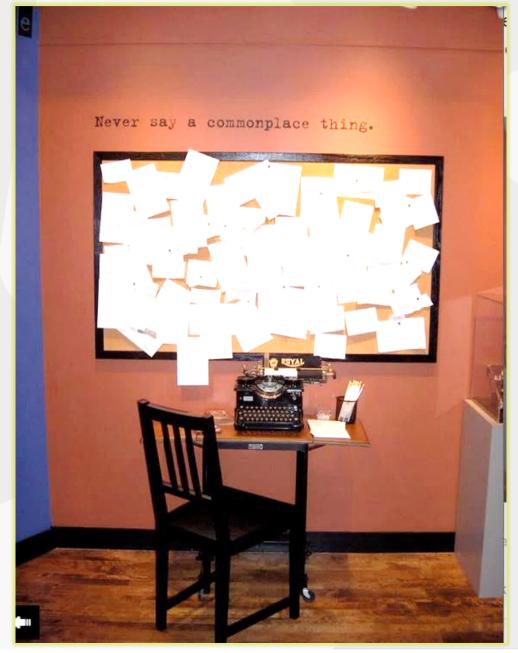




Photo: Participatory Museum

"Installation: Science and You"



Photo: Participatory Museum



Do we need to change the culture around science? What needs to change?



"Hackathons"

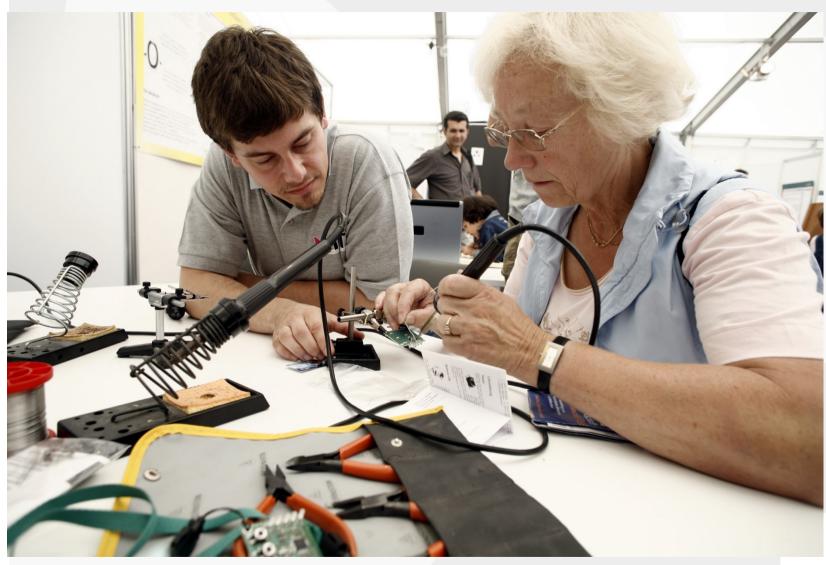


Photo: Wissenschaft im Dialog



How can researchers and communities can improve the mobility in our cities?

Hack your university!



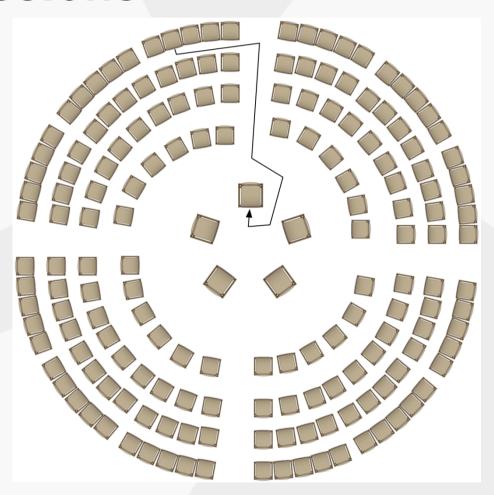
"Fishbowls





Photo: Wissenschaft im Dialog

"Fishbowls discussions"







Odwrócona Kawiarnia Naukowa (test)

Czemu odwrócona? Zamieniamy role: tym razem to eksperci będą pytać Cię o zdanie. Temat: rodzicielstwo i nowoczesne technologie w medycynie. Będzie to pierwsze takie, prototypowe wydarzenie w Koperniku - potrzebujemy Twojego udziału i wskazówek. 6 grudnia, 14:00 – 17.00. Zgłoszenia: kawiarnia@kopernik.org.pl

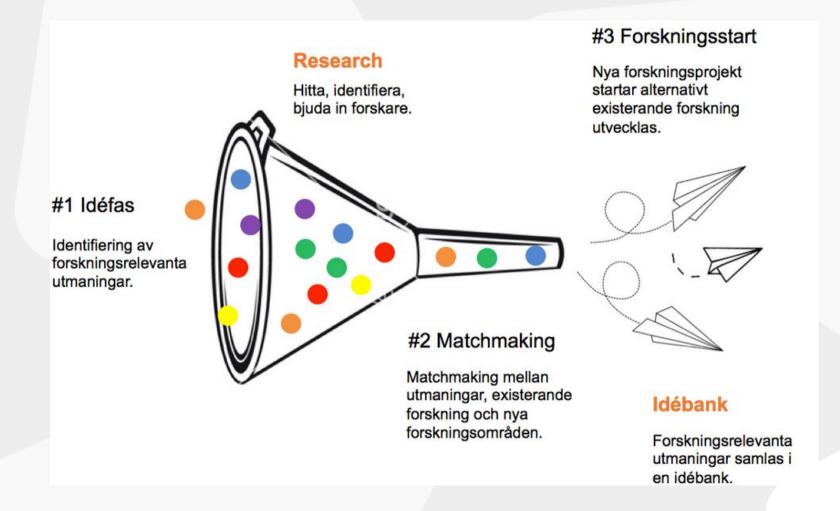
Reverse science café and science cafés



How can we negotiate the extent to which technology becomes embedded in our bodies?



"Pop-up science shop"





"Pop-up science shop"





Whose needs are we addressing in the way research is currently conducted?
What do we need to change to make it more inclusive?



"A Design Thinking experience"

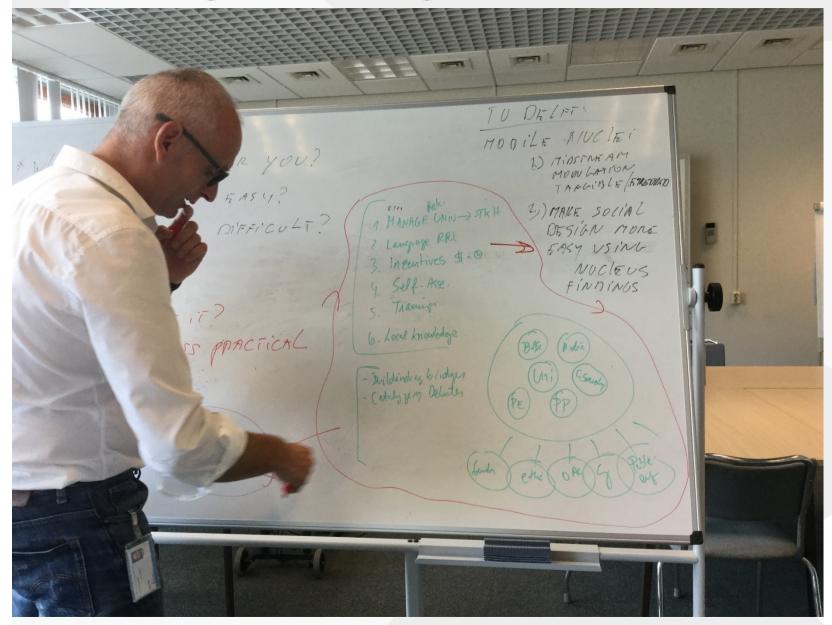




Photo: EUSEA

"A Design Thinking experience"

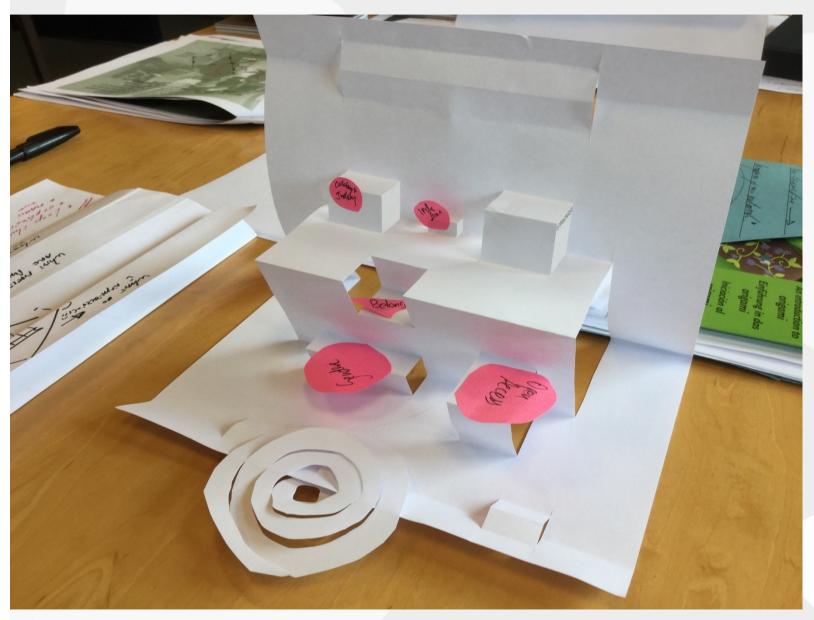
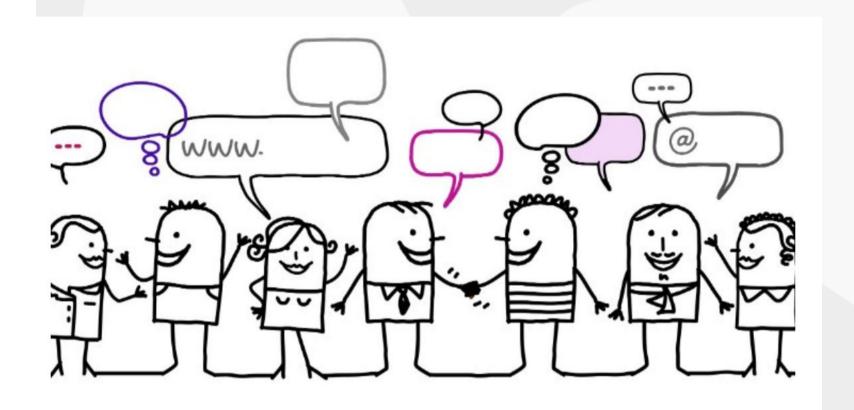




Photo: EUSEA

Open-mindness and receptiveness to change: this means that the actors and institutions involved in research and innovation are engaged in a continuous process to reflect on their role and practice, to learn from feedback, and to change accordingly.

"RRI Stakeholders workshop"





What collaborations are we missing in order to improve the results we achieve with our projects?



Raise the "engagement literacy" of researchers, e.g., by organizing lectures or workshops about different forms of engagement and their implications.

Bring them together with scientists for an exchange of their views on a research topic.

Social scientists and philosophers might be a good source for assessing problems of social compatibility or social resistance.



Identify stakeholders or lay people with different interests regarding a certain research project.

NUCLEUS

Photo: EUSEA Photographer: Reimar Ott

The Mobile Nuclei will start to run from November 2017 onwards.



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Shift happens



Share your impressions, thoughts...!

