

MOBILE NUCLEI

THE CONCEPT WAS DEVELOPED TOGETHER WITH THE INSTITUTIONS INVOLVED, GATHERING AND INTEGRATING THEIR EXPERIENCES AND EXPECTATIONS. 7 DIFFERENT FORMATS ARE OFFERED TO SHAPE A MOBILE NUCLEI EVENT.

RRI TRAINING

RRI TRAINING FOR RESEARCHERS AND SCIENTISTS. RRI BASCAMP, GETTING A GRIP OF THE BASICS (AND MORE)



INSTALLATION

SCIENCE AND YOU: INSTALLATION TO COLLECT PEOPLES' CONNECTIONS / EXPECTATIONS / FEELINGS TO SCIENCE.



HACKATHONS

SOCIETAL-BASED HACKATHONS ON REAL PROBLEMS IN CITIES



OPEN REFLECTION

RRI STAKEHOLDER WORKSHOP: OPEN DISCUSSIONS FOR CLOSE COLLABORATIONS



SCIENCE SHOP

POP-UP SCIENCE SHOP ON SPECIFIC ISSUES



OPEN TALKS

DISCUSSION FORMATS FOR CITIZENS: FISH BOWL AND REVERSE SCIENCE CAFE



CO-DESIGN

DESIGN WORKSHOPS



THE MOBILE NUCLEI

Twenty-one partners representing universities, science festivals, cities, NGOs and science centres acted as Mobile Nuclei. These partners integrated modular activities into existing events to support the uptake of RRI by a wider audience.

CONSORTIUM PARTNERS

- Beijing Association for Science and Technology
 - Bielefeld University
 - China Research Institute for Science Popularization
 - City of Bochum
 - Delft University of Technology
 - Dublin City University
 - European Science Engagement Association
 - Ilia State University
 - Mathematical Institute of the Serbian Academy of Sciences and Arts
 - Nottingham City Council
 - Nottingham Trent University
 - PSIQUADRO
- Rhine-Waal University of Applied Sciences
 - Ruhr-University of Bochum
 - Science City Hannover
 - Science View
 - South African Agency For Science And Technology Advancement
 - South African Institute for Aquatic Biodiversity
 - University of Aberdeen
 - University of Edinburgh
 - University of Lyon
 - University of Malta
 - University of Twente
 - Wellcome Genome Campus
 - Wissenschaft im Dialog

NUCLEUS ONLINE

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- info@nucleus-project.eu
- @NucleusRRI
- NucleusRRI
- projectnucleus

#LivingRRI
#Nucleus2018

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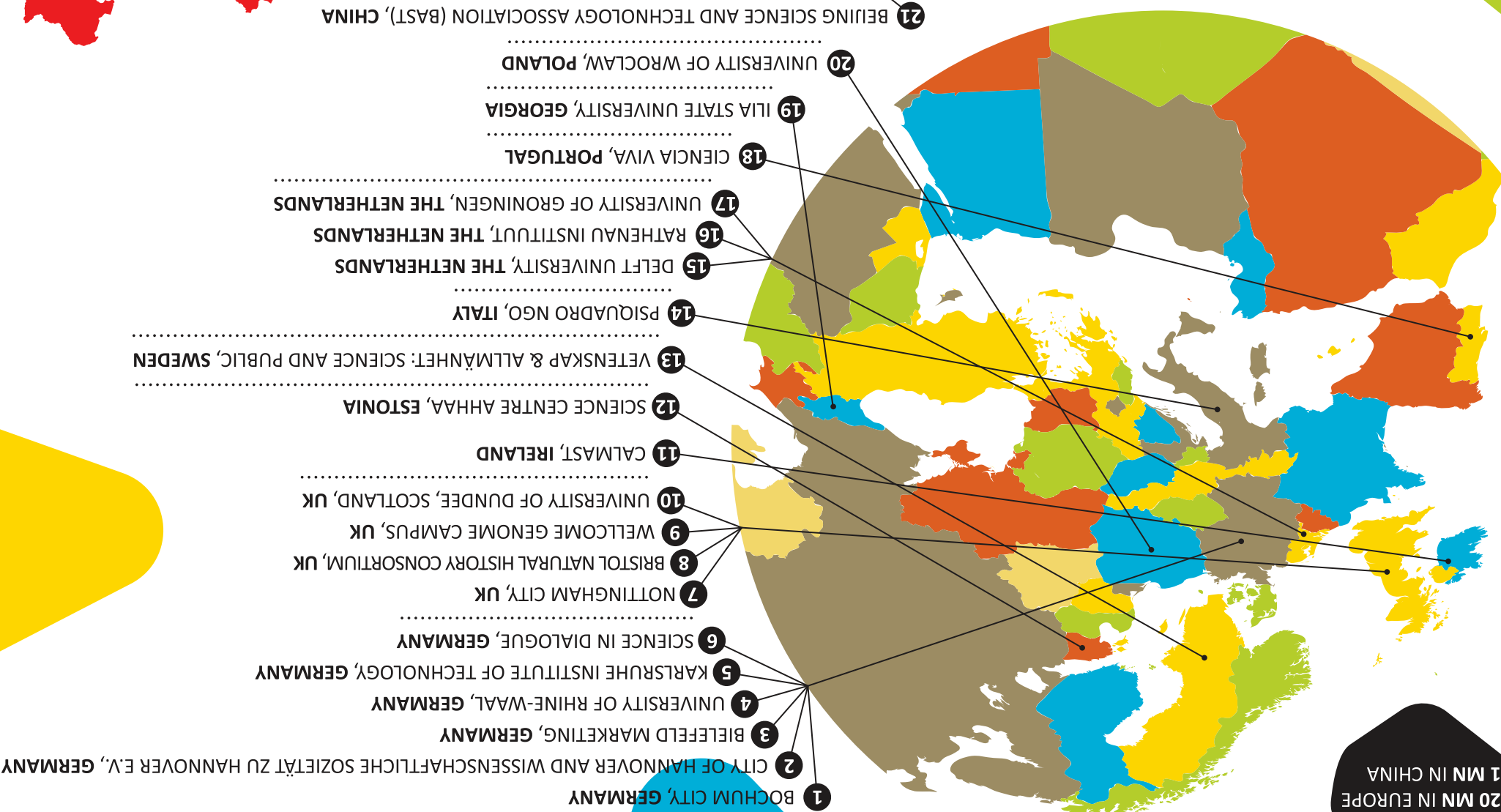
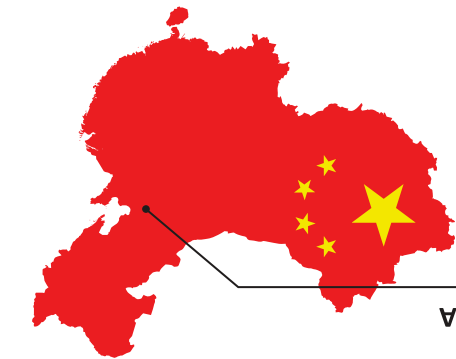
The project is coordinated by Rhine-Waal University of Applied Sciences, Germany. Project Lead: Professor Alexander Gerber



NUCLEUS



COORDINATED BY EUSEA, THE EUROPEAN SCIENCE ENGAGEMENT ASSOCIATION, PARTNERS REPRESENTING UNIVERSITIES, MUSEUMS, NGO'S AND CITIES RAN EVENTS AS MOBILE NUCLEI BETWEEN 2017 AND 2019. 21 MOBILE NUCLEI TOOK PLACE, INVOLVING MORE THAN 2,200 PEOPLE.



20 MN IN EUROPE
1 MN IN CHINA



Bochum City Marketing, Bochum, Germany
Installation: The talking bike

"We ran dialogues about city strategy involving scientific findings: Glocal challenges, such as health issues, especially focusing on aging society, urban development issues, within the city."

Sarah Koethur
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www.bochum.de



City of Hannover, Hannover, Germany
Stakeholders Open Session: Fine dust pollution

"The audience tackled the fine dust pollution problem by opening views and discussions with all actors. Scientists are now taking part at Council sessions related to city planning and health."

Theda Minthe
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www.hannover-stadt.de



Bielefeld Marketing, Bielefeld, Germany
Stakeholders Open Session: Shaping our House of Science

"This topic gave us the opportunity to explore RRI in a very broad sense but as well link it to very concrete measures and specific actions. Within some of the workshops, the stakeholders involved came up with quite definite plans for future collaborations and mutual fields of action."

Gesa Fischer
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University of Applied Sciences Rhine-Waal, Cleve, Germany
RRI Workshop on DIY research

"The workshop explored the aim of open source movements, and made the links between this way of sharing technology and responsible research and innovation. All participants built a microscope and used it right away!"

Annette Klinkert
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Photo: ONUK, City of Karlsruhe, Science Bureau

Karlsruhe Institute of Technology, Karlsruhe, Germany
Open conversations: Science in my mother tongue

We want to shed light on the aspects of inclusion and diversity in communication of and about science and technology as an overarching meta-aspect, presenting various international researchers in their language and from their perspective with and for the international part of the audience of the science festival EFFEKTE.

Phillip Schrögel
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Science in Dialogue, Berlin, Germany
Fishbowl session: Science controversy

"Participants were asked to join the experts on stage, discussing directly with them. We addressed in an inclusive way an issue that society faces, using the topic: Work, cars and Androids, what to expect from AI?"

Michael Wingens
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Nottingham City council, Nottingham, England, UK
Stakeholders Open Session: Smart because of you

"Co-creation was a way to scope possible ways forward for future participatory Smart research activity. Air pollution was chosen so that citizens, technologists, strategists and open data owners could work together."

Jon Rea
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www.nottinghamcity.gov.uk



Bristol Natural History, Bristol, England, UK
Fishbowl discussion on Behavioural sciences

"We tackled the connections of research with the needs of society, and the stages of the research connected with society. Not only the results are what we are aiming for. The 'what' and the 'how' are also valuable stages where the input from different stakeholders can make the difference."

Savita Willmott
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Wellcome Genome Campus, Cambridge, England, UK
Hackathon in Patient care and medical sciences

"Importantly for #LivingRRI and our NUCLEUS journey, the event had a strong entrepreneurial element and brought together not just academia and industry, but also people who could provide patients' perspectives."

Kenneth Skeldon
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Leverhulme Research Centre for Forensic Science, University of Dundee, Dundee, Scotland, UK
Stakeholders Open Session: Dundee Policy Lab

"We brought together researchers, policy makers and civil society to address policy challenges. It was the first stepping stone in the creation of a Dundee policy lab which will support research to influence policy decisions."

Heather Doran
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www.dundee.ac.uk



Calmast, Waterford Institute of Technology, Waterford, Ireland
Stakeholders Open Session: Climate action

"Stakeholders suggested that more research needed to be done on societal attitudes, including behavioural attitudes to climate change action and, how to make doing the right thing more palatable. We looked into ways for working together."

Sheila Donegan
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AHHAA Science Centre, Tartu, Estonia
Science Café and Guided Tour: Botany and us

"It is always good to have a format that is so to say 'tested' and 'proved' by experts. For us it was an ideal way to add a close interaction to our annual science festival programme."

Annika Veselov
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www.ahhaa.ee



VA Public & Science, Stockholm, Sweden
RRI Basecamp training: Ladybirds, AI and citizen science

"The interactive nature of the event resulted in a direct and immediate dialogue with the public about citizen science and public engagement in science. Our partners will continue their collaboration with Universeum Science Centre."

Lena Söderström
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<https://v-a.se/english-portal/>



Psiquadro, Perugia, Italy
Interviews for interaction: Radio installation

"A radio station was set up in the European Corner in Perugia. During a 4-hours broadcast researchers and members of the public were interviewed, to briefly identify a motivation and an obstacle for research communication."

Leonardo Alfonsi
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www.psiquadro.it



TU Delft, Delft, The Netherlands
Design thinking for RRI Identities

"The approach safeguards the direct involvement of scientists, engineers, other stakeholders and an RRI activity designer. Collaboratively, they form a Community of Practice to develop an activity. RRI is inside, not wrapped."

Steven Flipse
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Rathenau Institute, The Hague, The Netherlands
Open design workshop on research integrity

"We focused on anticipation and reflection in the areas of research integrity and science and society: the ethical acceptability of scientific and technological developments. Public engagement was a means in this process."

Pieter van Boheemen
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Science LinX, University of Groningen, Groningen, The Netherlands
Installation: Citizen Science and you

"Interactive installations presented citizen science projects which differed in the level of citizen participation. Combining these with an interactive questionnaire gave us insights into how citizens wanted to participate in science."

Maaik de Heij
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Ciencia Viva Science Centre, Lisbon, Portugal
RRI Basecamp Workshop: Relations mapping

"The workshop helped participants to better understand the local and the European context of RRI and Science-Society initiatives. It was an opportunity to reflect on how their institutions have been connecting with the society."

Amilton Moreira
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Ilia State University, Tbilisi, Georgia
Science picnic: Air pollution

"Open discussions helped to explain how important the issue was. Policymakers need to learn more about the science behind, in order to propose sustainable solutions. Citizens can play a big role in catalysing this process."

Ana Khundadze
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www.iliauni.edu.ge



University of Wrocław, Wrocław, Poland
Installation about GMO and Open research

"The installation enabled people to gather, while encouraging participation. It provided a space for scientists from diverse fields to engage with the public and discuss the co-responsibility of research."

Barbara Cader-Sroka
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Beijing Association for Science and Technology BAST, Beijing, China
RRI Basecamp on Collaborative science

"The workshop let participants talk about their needs and expectations of making science more open. It gave them as well an overview of projects and the current discussions about how to make research more collaborative."

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