



Report on Deliverable D10.2

RRI guidelines for funded project researchers

Workpackage		10		
Task		10.2		
Date of delivery	Contractual	Month 18 (May 2021)		
	Actual	Month 22 (September 2021)		
Code name		D10.2	Version 1	Draft ☐ Final ☒
Type of deliverable		Report		
Dissemination level		Public		
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Publishable abstract		The report presents the activities related to RRI implementation within CHIST-ERA funded projects		
Keywords		RRI guideline		

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1. Overview of CHIST-ERA IV Task Related to D10.2

Task (T10.2) related to deliverable 10.2 aims are raising awareness of RRI and promoting Open science practices among the CHIST-ERA scientific community.

2. Scope of Deliverable 10.2

The main activities related to Deliverable 10.2 are:

- Raise awareness and promote RRI among the scientific community; promotion of RRI at events such as the Projects Seminar to engage with the research community;
- The development of ICT related guidelines for researchers and other concrete measures or recommendations targeted at CHIST-ERA calls, to further support taking up by the researchers at the earliest stage of potential questions or issues related to public engagement, open access, gender, ethics, science education.

3. Raising awareness and promotion of RRI to the CHIST-ERA scientific community

The aim of the CHIST-ERA Projects Seminars, which are organized yearly, is to allow all currently funded projects to interact with each other, in order to tighten the links and structure emerging scientific communities. Since this event brings all the CHIST-ERA community (funded projects from the past 4 calls, funders and other stakeholders), it is the perfect medium to disseminate information on RRI and the activities of CHIST-ERA in that matter.

For the reasons stated above, the first day of the CHIST-ERA Projects Seminar 2021 ([PS2021 agenda](#)) was dedicated to presenting:

- Responsible Research and Innovation (RRI) – general concepts (see presentation in annex) + testimonies from past projects:
 - o [IMOTION](#) (Call 2012, IUI topic)
 - o [UPRISE-IoT](#) (Call 2015, SPTIoT topic)
 - o [LIHLITH](#) (Call 2016, LLIS topic)
- Open Science activities within CHIST-ERA
- Technology Transfer Challenges:
 - o Testimony from the [Mama AI](#) project

In addition to these presentations and as a further activity to raise awareness, individual projects were asked to reflect on RRI, Open Science and Technology Transfer, and to share what practices they have put in place to implement these notions in their projects. Such reflections were also asked in the global presentations of the funded topics, in order to provide the entire CHIST-ERA community with concrete examples of RRI implementation in research projects.

Lastly, the CHIST-ERA consortium decided to organize a short-video contest. The goal of the submitted short videos was to provide a general presentation aimed at the greater public of the research projects and their main (planned) achievements. 14 short videos were submitted to the contest. A vote for best video was also organized during the Project Seminar meeting and all videos are displayed on the [CHIST-ERA website](#), with a specific [news item](#) for the contest winners.

4. Development of ICT related RRI guidelines

- Addition of an RRI section in the [Guidelines for funded projects](#): definition of RRI and recommendations to funded projects for implementation
- In the scope of its activities in Open Science, the CHIST-ERA network has developed a [CHIST-ERA Open Science policy](#), which is now in its 3rd version (more information in D5.2)
- The CHIST-ERA network will also provide on its website a list of Fair data-repositories. This living document will be updated yearly based on suggestions from the projects participants and other stakeholders
- CHIST-ERA collaborated with OpenAir in order to develop a DMP template on their Argos platform. The tool is in its final developments and will be made available to researchers in the [Project toolbox](#)
- Continued support provided by CHIST-ERA to funded projects to disseminate research results to the whole community (video contests and other dissemination activities)

Annexe 1

RRI CHIST-ERA Presentation at the Projects Seminar 2021



Responsible Research and Innovation CHIST-ERA Projects Seminar 2021

Florence Quist
April 12, 2021

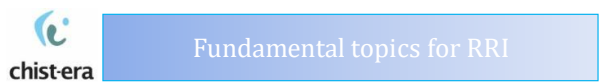


Why RRI?

- ❖ Europe wants research and innovation in order to create jobs, find solutions to societal problems, be a knowledge-based society and continue as a powerful global actor
- ❖ BUT European states and the European Union need to show that research and innovation is in the interest of the people to justify strong public investments
 - ✓ Experiences, such as with GMOs, have led to public resistance to new technologies
 - ✓ Research scandals or perceptions of biased research have led to public skepticism
 - ✓ Social skepticism to scientific establishment 'elites'
- ❖ **Developing research policies that stimulate new reflections on responsibility within science and innovation environments themselves and by facilitating informed dialogue between scientists, innovators and the public**

Presentation by Ellen Marie Forsberg Norrøst Norwegian Institute for Sustainability Research (LAGERA) Project workshop 2021

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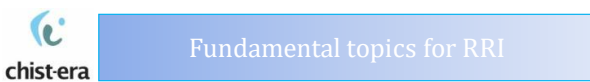


Fundamental topics for RRI

- ❖ Avoiding the wrong impacts of R&I
 - ✓ Technological development usually follows risk regulations
 - **For emerging R&I, the development takes place so quickly that risk regulation lags behind**
- ❖ Creating the right impacts of R&I
 - ✓ Our societies have some grand challenges that R&I contributes to solving
 - **How can we make sure that R&I contributes to what is good for society?**

Presentation by Ellen Marie Forsberg Norrøst Norwegian Institute for Sustainability Research (LAGERA) Project workshop 2021

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Fundamental topics for RRI

- ❖ Who are we to decide what are the right (and wrong) impacts of S&I?
 - ✓ Researchers and Innovators are experts in justifying their inventions and projects: one cannot assume that researchers' own assessment represents a neutral assessment of the benefits and burdens of the inventions for society
 - **How can societal groups/ the public be involved in discussions about R&I in order to provide a broader view?**
- ❖ The responsibilities of Researchers and Innovators
 - ✓ Many actors are involved in the R&I process.
 - **What are the responsibilities of the individual scientist or innovator versus all the other actors?**

Presentation by Ellen Marie Forsberg Norrøst Norwegian Institute for Sustainability Research (LAGERA) Project workshop 2021

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EC approach to RRI – 5 RRI dimensions

- ❖ **Gender:** Fostering gender balance in research teams (in order to close the gaps in the participation of women). Integrating the gender dimension in research and innovation (R&I) content, thus helping to improve the scientific quality and societal relevance of the produced knowledge, technology and/or innovation.
- ❖ **Open science:** Open Science aims to promote transparency and reproducibility of results, increase and widen the diffusion of knowledge and may overall accelerate scientific progress and innovation
- ❖ **Science education:** Making science education and careers attractive for young people is an ambitious goal, it targets to drastically improve science and technology-literacy in our society.
- ❖ **Public engagement:** The creation of iterative (2-way) and inclusive participatory multi-actor dialogues between researchers, policy makers, industry and civil society organizations, NGOs, and citizens; to foster knowledge exchange, mutual understanding and wider acceptability of results.
- ❖ **Ethics:** Ethical research conduct implies the application of fundamental ethical principles and legislation to scientific research.

Broader view on the RRI dimensions

- ❖ **Gender →** Diversity in general assessing the way the research may influence differences in society
- ❖ **Open science →** Not only about data repositories, but can potentially impact on how you view IP issues etc?
- ❖ **Science education →** Can this also mean that you learn more about other disciplines?
- ❖ **Public engagement →** Is one-way dissemination enough, or is it about learning from the publics or other stakeholders?
- ❖ **Ethics →** Is it only about not breaking research ethics rules? Can ethics also mean a reflection on the potential ethical issues the research can have longer term? Privacy, new scientific uncertainties, dual use, change of production systems impacts on human identity, etc.?

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Presentation by Elise Marie Forsberg, Norwegian Institute for Sustainability Research (IAGERA) Project workshop 2021

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RRI and CHIST-ERA

- ❖ **The CHIST-ERA consortium is a strong promoter of RRI**
 - ✓ CHIST-ERA actions on Open Science
 - ✓ CHIST-ERA actions in Technology transfer
 - ✓ CHIST-ERA actions in research communication
 - Promotion of research results from funded projects
 - CHIST-ERA short video contest
- ❖ **Some useful tools:**
 - ✓ <https://rri-tools.eu/>
 - ✓ <https://newhorizon.eu/thinkingtool/>

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Questions

Questions ?

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Annexe 2

RRI Project Presentations at the Projects Seminar 2021