



Why Responsible Research & Innovation?



Society is facing many challenges today...



Health, demographic change, and wellbeing



Food, agriculture and forestry, and water

Climate action,

environment,

and resources



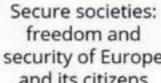
Europe in a changing world: inclusive, innovative and reflective societies



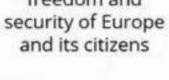
Secure, clean and efficient energy



Smart, green and integrated transport













Science & technology sometimes create risks and dilemmas

- GMOs
- fracking
- food safety
- affordable medication among many others...



Society needs a new R&I approach to address present and future controversies more efficiently.

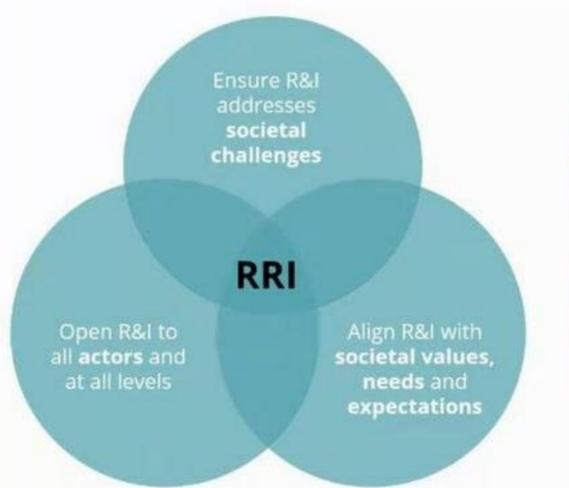


RRI tackles these Grand Challenges by aligning the values, needs and expectations of all actors involved in Research and Innovation.





What do you do when you do RRI?



RRI seeks to bring issues related to R&I into the open in order to anticipate their consequences, and to involve society in discussing how science and technology may help us create the world we want.

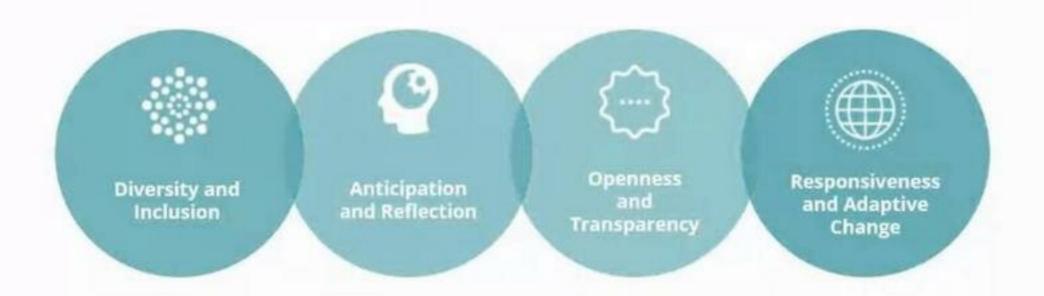


What is RRI?





Implementing RRI: process dimensions







The process dimensions in depth



early involvement of a wide range of of actors and publics in R&I practice, deliberation, and decision-making to yield more useful and higher quality knowledge. This strengthens democracy and broadens sources of expertise, disciplines and perspectives.



means to envision impacts and reflect on the underlying assumptions, values, and purposes to better understand how R&I shapes the future.

This produces valuable insights

and increases our capacity to act

on what we know.

Anticipation and Reflection



means to communicate in a balanced, meaningful way methods, results, conclusions, and implications to enable public scrutiny and dialogue. This benefits the visibility and understanding of R&I.



Change means to be able to modify modes of thought and behaviour, overarching organizational structures, in response to changing circumstances, knowledge, and perspectives. This aligns action with the needs expressed by stakeholders and publics.





The process dimensions in depth









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Anticipation and Reflection

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This produces valuable insights and increases our capacity to act on what we know.

Openness and Transparency

means to communicate in a balanced, meaningful way methods, results, conclusions, and implications to enable public scrutiny and dialogue. This benefits the visibility and understanding of R&I.

Responsiveness and Adaptive

change means to be able to modify modes of thought and behaviour, overarching organizational structures, in response to changing circumstances, knowledge, and perspectives. This aligns action with the needs expressed by stakeholders and publics.





Who are the main actors in R&I processes?



POLICY

From funders to policy officers, research centre directors and representatives of learned societies, whether at a European, national, or local scale



RESEARCH COMMUNITY

Researchers, innovators, research managers, public affairs and communication officers, and all those who support the diversity of the R&I system



COMMUNITY

Teachers, students, science museums' staff, families and all those concerned with education at all levels



BUSINESS & INDUSTRY

From contractors and SMEs to large transnational companies with strong R&I activity



CIVIL SOCIETY ORGANISATIONS

From individuals to organisations, NGOs and the media, civil society is crucial to shape the R&I our society needs





A normative framework for RRI: the six Policy Agendas



ETHICS

research integrity, and science & society



GENDER EQUALITY

Promoting human resources in research for attaining gender balance



GOVERNANCE

Providing instruments to foster shared responsibility in R&I practices



OPEN

Guaranteeing access to scientific knowledge to boost R&I



PUBLIC ENGAGEMENT

Fostering collaborative and multi-actor processes in R&I



SCIENCE EDUCATION

Increasing the knowledge and skills of citizens in order to promote scientific vocations and participation









RRI is about: including all actors, and considering specific key issues and process dimensions







Adopting RRI results into the following outcomes

LEARNING OUTCOMES

Engaged publics Responsible actors Responsible institutions

R&I OUTCOMES

Ethically acceptable Sustainable Socially desirable

SOLUTIONS TO SOCIETAL CHALLENGES

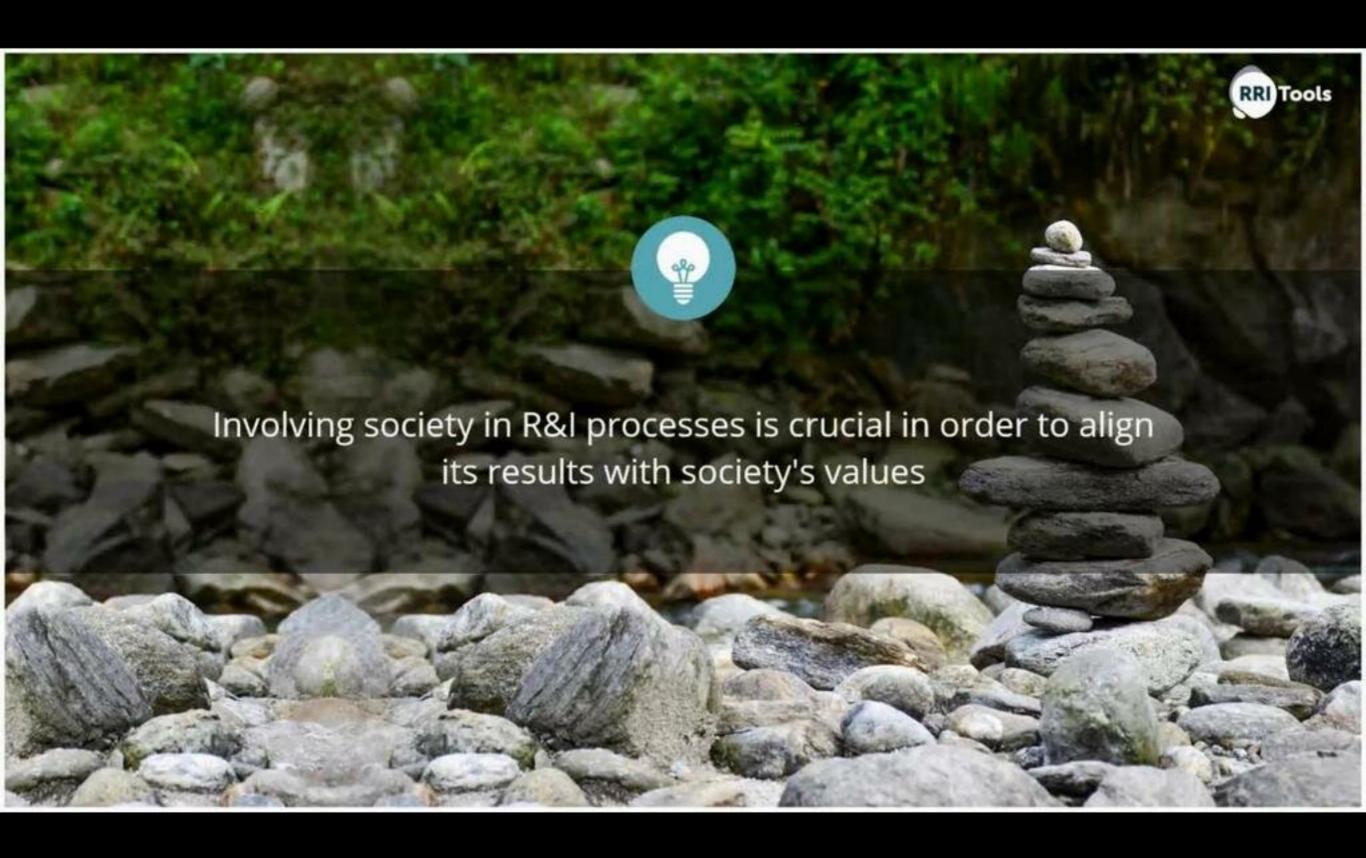
Seven Grand Challenges identified by the EC

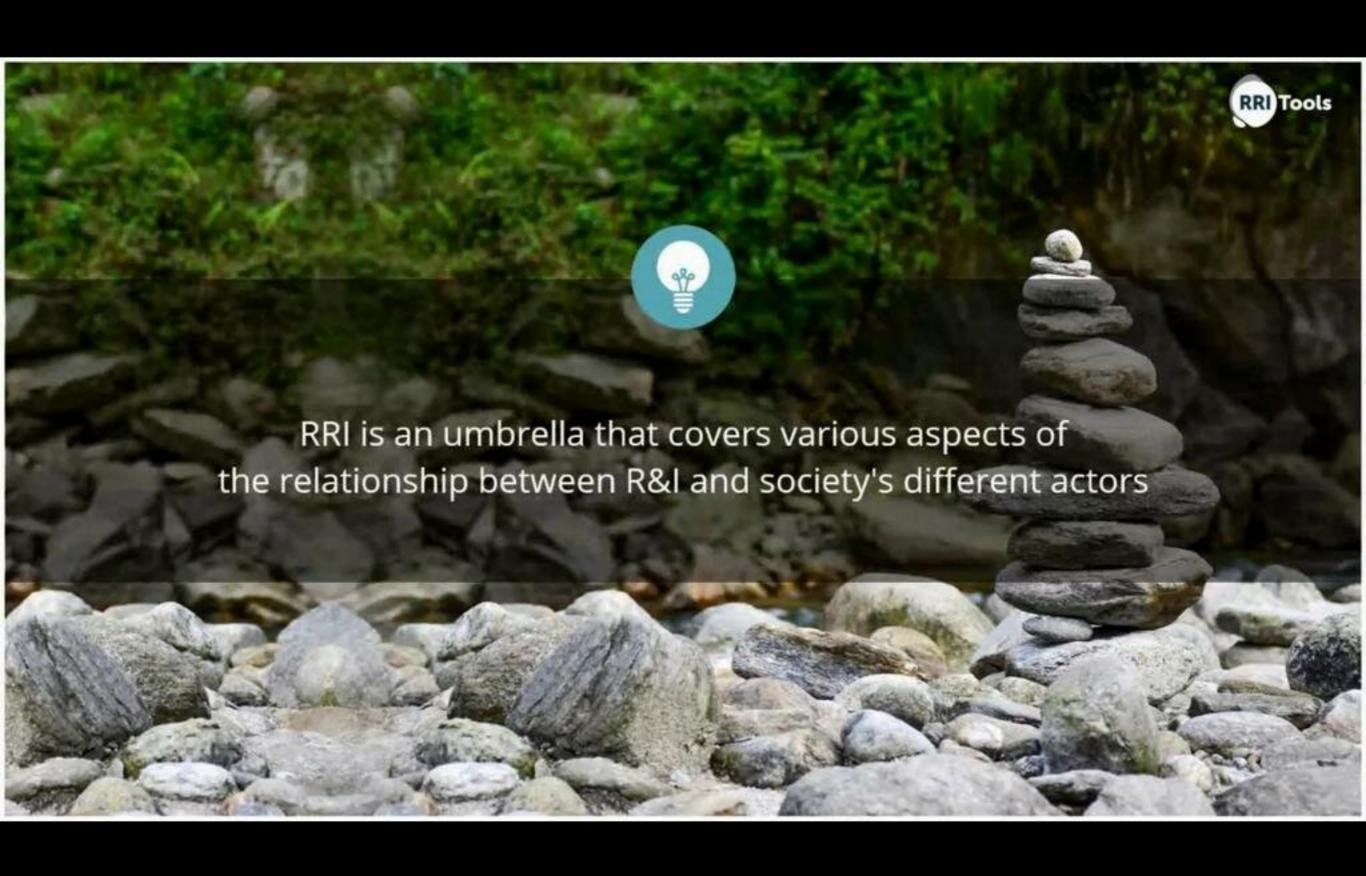


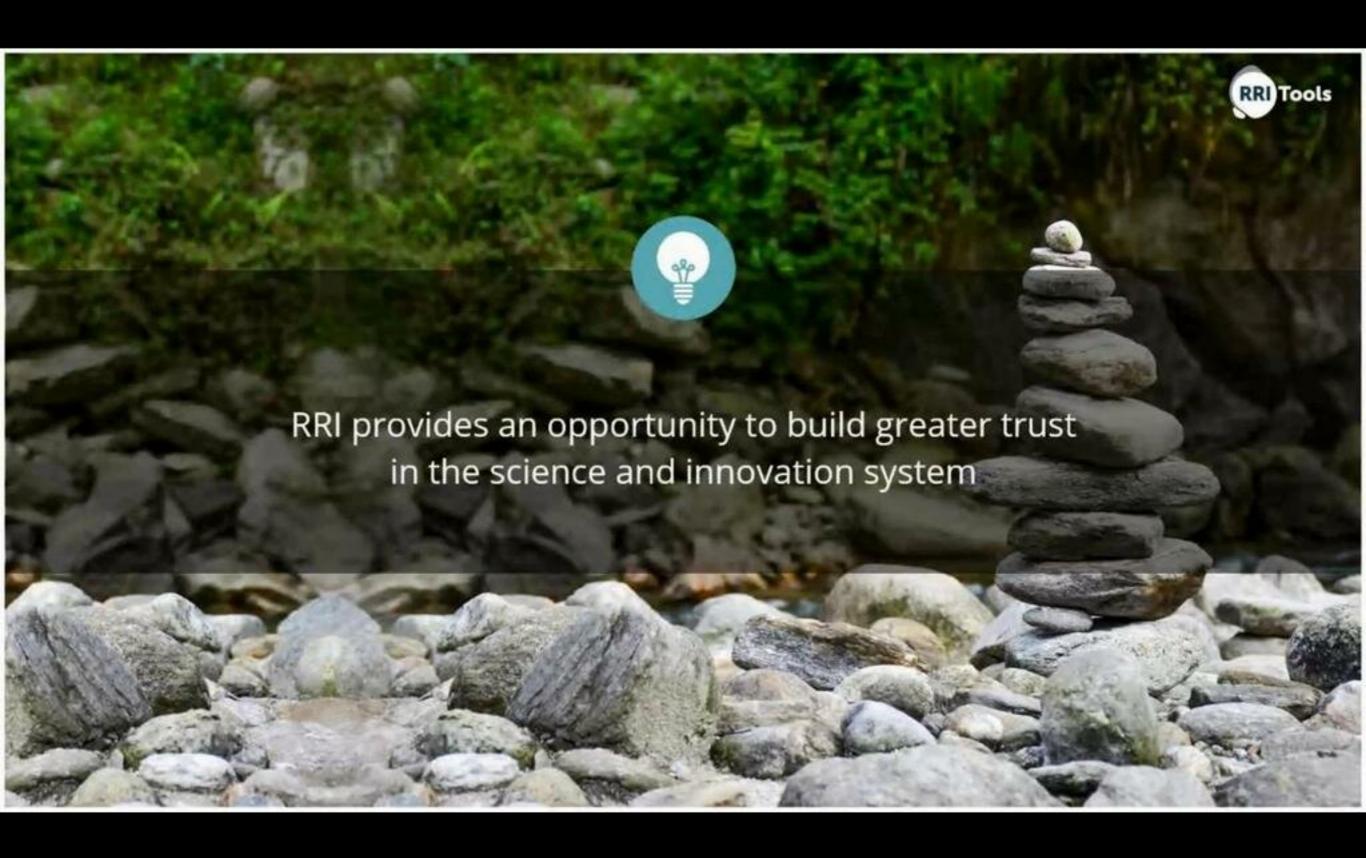


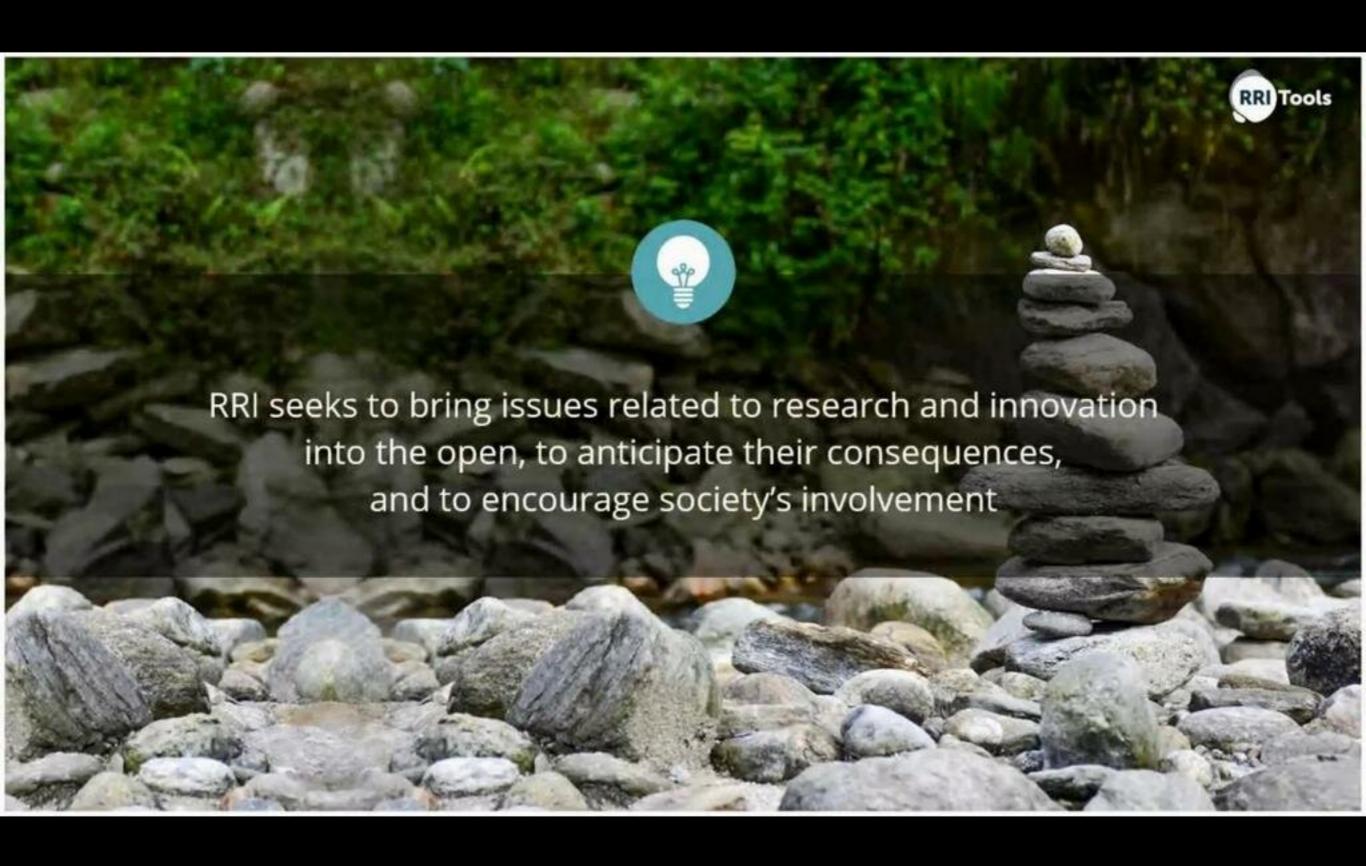
Definitions: What is Responsible Research & Innovation?



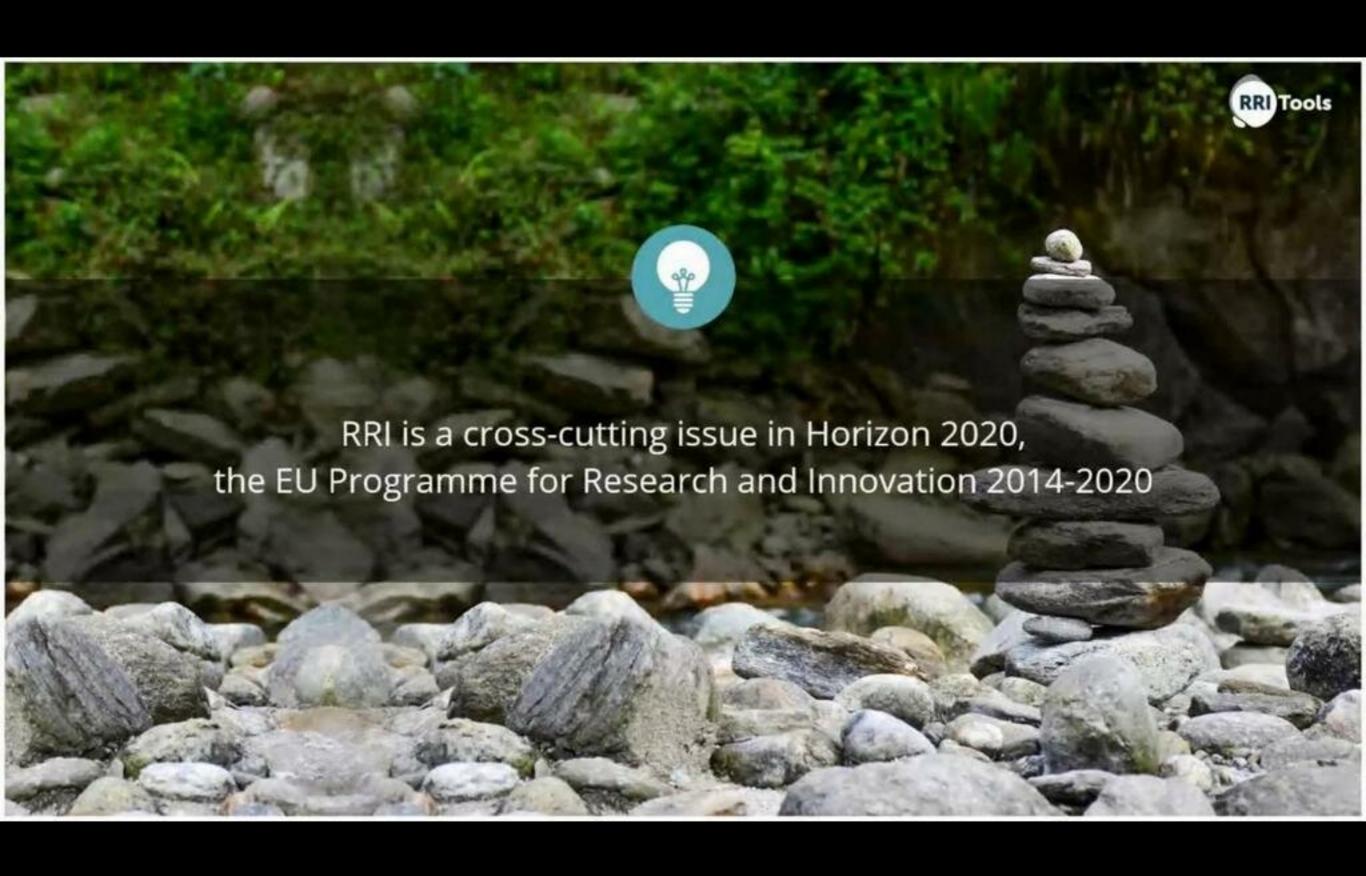






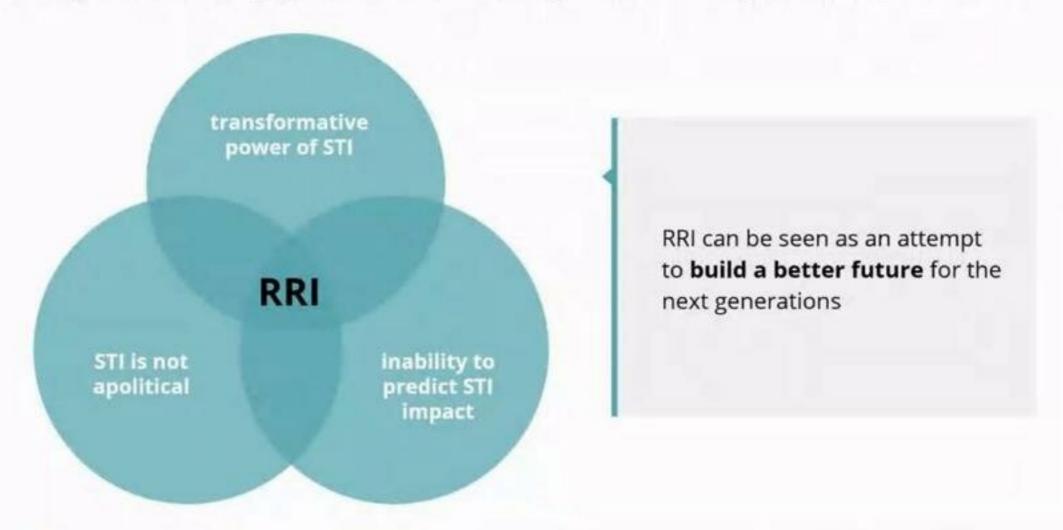








RRI: Systemic approach in Europe for responsible STI







Nice! But HOW? The RRI Toolkit



The RRI Toolkit: A wealth of resources to help you implement RRI



TOOLS

Use manuals, guidelines, and 'how tos' to implement RRI.



INSPIRING PRACTICES

Find inspiration in RRI success stories across Europe.



PROJECTS

Get to know other projects on RRI and find potential partners.



LIBRARY

Learn of RRI from articles, reports, cross-analyses, and more.



HOW TOS

Get concrete examples on how to put RRI into practice in different contexts.



SELF-REFLECTION TOOL

Reflect on how RRI your own professional practice is.



TRAINING MATERIALS

Organise trainings in RRI using showcases and presentations.



COMMUNICATION MATERIALS

Spread the word on RRI with videos and presentations.

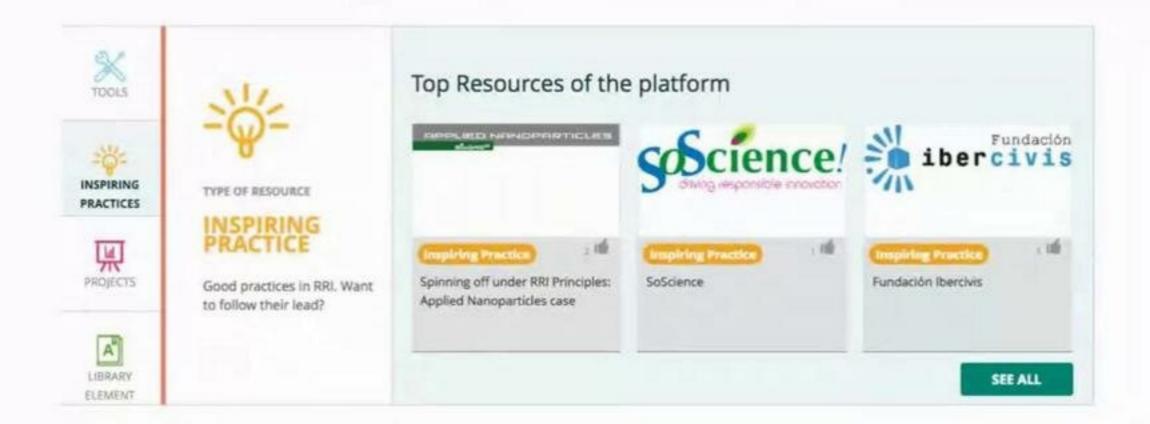






















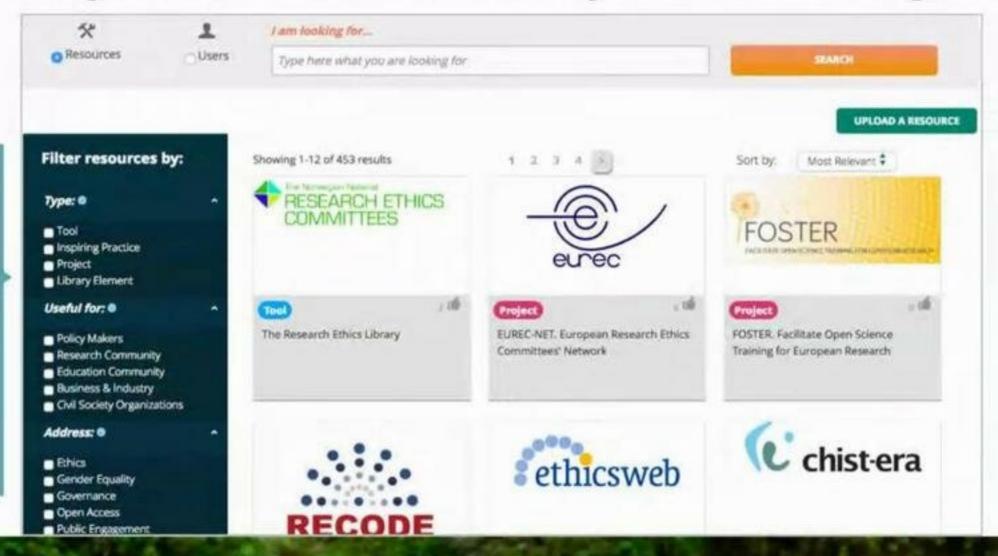






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Get concrete examples on how to put RRI into practice

How Tos offer guidance and concrete examples on how to use specific resources of the Toolkit to address common challenges according to **your profile**:





How to incorporate RRI in policy/funding institutions



How to incorporate RRI in higher education institutions



How to set up a participatory research agenda



How to incorporate the RRI principles in a funding call



How to design a RRI-oriented project proposal



How to co-create community-based participatory research



How to embed RRI in citizen science





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implementing RRI





governance





How to incorporate the RRI principles in a funding call



Fostering multistakeholder engagement

SEE ALL HOW TOS





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How RRI is your practice?

The Self-Reflection Tool

The SRT offers you room for reflection on those aspects of RRI you already consider in your work, those you don't, and how you and your organisation can move towards a more responsible practice.

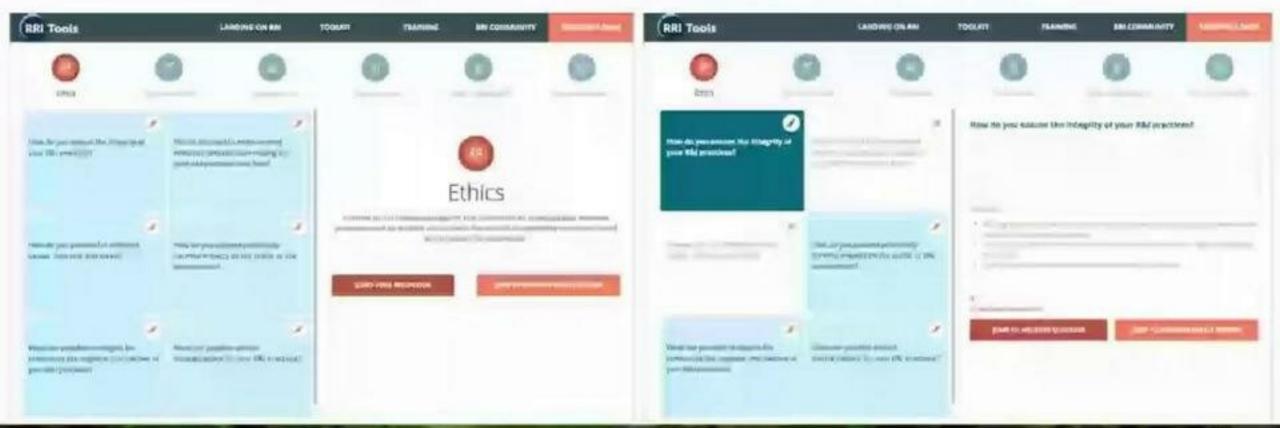
SELF-REFLECTION TOOL





How RRI is your practice?

Step by step, the SRT will guide you through six policy agendas, offering you a variety of questions addressing different aspects of RRI

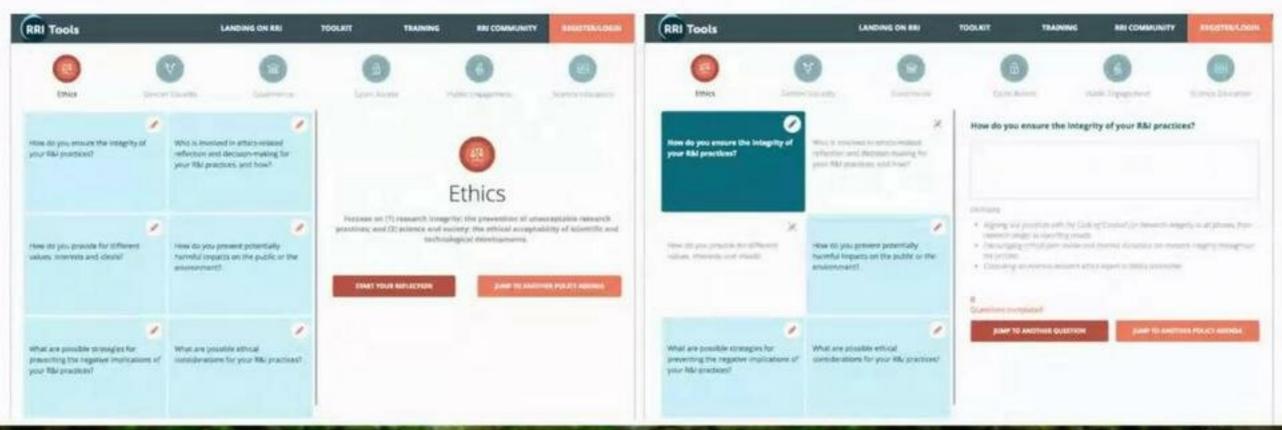






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ri-tools.eu















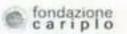








































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