# Good Practices Repository

## of responsible ICT Research and Innovation with SSH input

**HubIT** TECHNOLOGY WITH AND FOR SOCIETY

Title of the initiative

## Marine Responsible Research and Innovation (RRI) Roadmap

### Description of the Initiative

The aim of the RRI roadmap is to provide an approach for addressing a challenge through the application of Responsible Research and Innovation (RRI) and the involvement of diverse stakeholders such as citizens, civil society, researchers and scientists, policy makers, policy implementers, business and industry people. The RRI roadmap provides 8 clear milestones with 3-4 steps to guide processes for working together for engaging, codesigning, co-constructing and co-implementing solutions for addressing a specific societal challenge by considering stakeholders' perspective, experience and knowledge. In short, the purpose of the RRI Roadmap is to enable anyone to initiate and address effectively any important issue by considering the responsible research and innovation concept and dimensions. This will ensure viable, sustainable and worthwhile actions towards a solution that is created and accepted by the majority of stakeholders. Why Use the RRI Roadmap? For the RRI roadmap, stakeholders are all types of actors within a society; these are citizens, civil society organisations, businesses, policy makers and implementers, researchers and innovators. Citizen science is emerging as an important mechanism for informing policy and likewise policy must be based on scientific evidence for it to have long-term and sustainable effect. Scientists, innovators and policy-makers need a practical method to effectively involve citizens and other societal actors to constructively contribute for the benefit of society and sustainable environment.

To achieve pragmatic goals, create good relationships and build trust: Responsible growth is about creating new innovations and economic development, but in a sustainable and responsible manner for the environment. engaging with other societal actors can improve relationships, acceptance for change and create networks for sharing knowledge and enabling growth through responsible actions. In the last few years, scientific measurements and advice has enabled informed and concrete decisions to better manage and tackle societal challenges. However, much more progress is required in the science-policy communication, which is hindered, by mistrust and miscommunication. RRI can help improve science-policy communication by also including industry and society

- To make better decisions, share and mobilise knowledge: Growth, environmental challenges and societal issues need greater awareness by all in order to make better decisions for innovation and environmental protection. engaging and openly discussing possibilities and challenges allow learning across disciplines, knowledge co-production and informed decisions for action. - Create new opportunities though common vision and co-defined action plan: Actors collectively produce ideas that after discussion may lead to a common vision of new opportunities. Through dialogue, stakeholders can consult each other, seek and co-define an action plan with actions to address societal needs, support new opportunities for growth and empower each other to implement these actions.

Following the RRI roadmap, it will enable you to achieve the above aims in your research and innovation work.

The RRI roadmap is for any:

- Organisation or groups of organisations that wish to address a societal issue in a holistic manner through the involvement of diverse and multidisciplinary stakeholders.
- Research and Technology Organisations and Universities performing research and development activities and/or innovation activities and wish to focus their activities for assisting wide societal challenges.
- Enterprises and businesses that perform research and innovation activities and wishes to involve end-users and other stakeholders to ensure wide acceptance of their work and results.

- Governmental Organisations that wish to improve their policy-making and policy implementation abilities for addressing effectively societal issues.
- Policy making organisations that wish to base their decisions on scientific results and wish to involve diverse stakeholders including citizens.
- Project coordinators that submit a project proposal for EU-funding.
- Research and Innovation funding organisations aiming at making research and innovation relevant for the society since the funding is coming from public funds.

# Responsible Research and Innovation, RRI, Citizen Science, Gender, Sustainability, Ethics, Governance, Public Engagement, Co-Design, Co-Develop, Co-Construct, Common Vision, Open Science, Science Education

**Type of Output of Initiative**

Define guidelines for inclusion of SSH into ICTs

**Country(ies) involved**

Cyprus | Denmark | Estonia | France | Ireland | Italy | Portugal | Romania | Spain | Turkey

**Geographic scale of the initiative**

International

**Website**

https://www.marinaproject.eu/

**Status of the initiative**

Ended

**Users' target group(s)**

EC and H2020 programme | ICT developers / researchers | SSH scientists / researchers | Policy makers | General public level | Local Administrations

**RRI dimensions involved**

It has been taken into account the ethical impact. (Ethics)

The requests of civil society have been evaluated. (Public Engagement)

It has been considered the gender and background balance when forming the working teams. (Gender Equality)

The representatives of civil society have been provided with the knowledge and skills to actively participate in the initiative. (Science Education)

The outcomes of the activities have been / are being published for free access. (Open Access)

**SSH disciplines involved**

Economics  | Human geography  | Political science | Sociology

**ICT domain involved in the initiative, both for the activities and as for output.**

Content technologies and information management, big data, open data, languages learning and teaching technologies, creative technologies, gaming and new interactions technologies

**Method used to exchange information and knowledge to include the RRI principles into the ICT research and innovation processes**

Cooperative workshops | Focus groups | Round tables | External revision of SSH experts | Face-to-face meetings

**Participation and engagement of people and organizations in the implementation of the initiative**

They all participate into a funded project/initiative

**Number of people participating**

1000

**Number of organizations participating**

400

**Number of events held**

45

**Number of researchers (ICT+SSH) involved**

600

**Number of women involved**

500

**Number of joint discussion themes**

30

**Who sustained the cost / effort**

Shared among participants

**How it is / has been funded this initiative?**

Public funding

**Notes**

The MARINA project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under GA No. 710566

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