

Including RRI dimensions and issues within and beyond EU-funded projects: *reflexive workshop*

Alba L'Astorina, Rita Giuffredi

Istituto per il Rilevamento Elettromagnetico dell'ambiente - Consiglio Nazionale delle Ricerche (IREA-CNR), Milano

Studi sociali su scienza, comunicazione, educazione

lastorina.a@irea.cnr.it, giuffredi.r@irea.cnr.it



*From RRI to Open Science
Udine, January 30th, 2020*

“Golden rules” towards... your own path to RRI

- ▶ 1. THINK ABOUT WHAT SOCIETY WANTS
- ▶ 2. INVOLVE A WIDE RANGE OF STAKEHOLDERS AND SOCIETAL ACTORS
- ▶ 3. CONSIDER ALL POSSIBLE IMPACTS
- ▶ 4. BE OPEN AND TRANSPARENT
- ▶ 5. RESPOND AND ADAPT

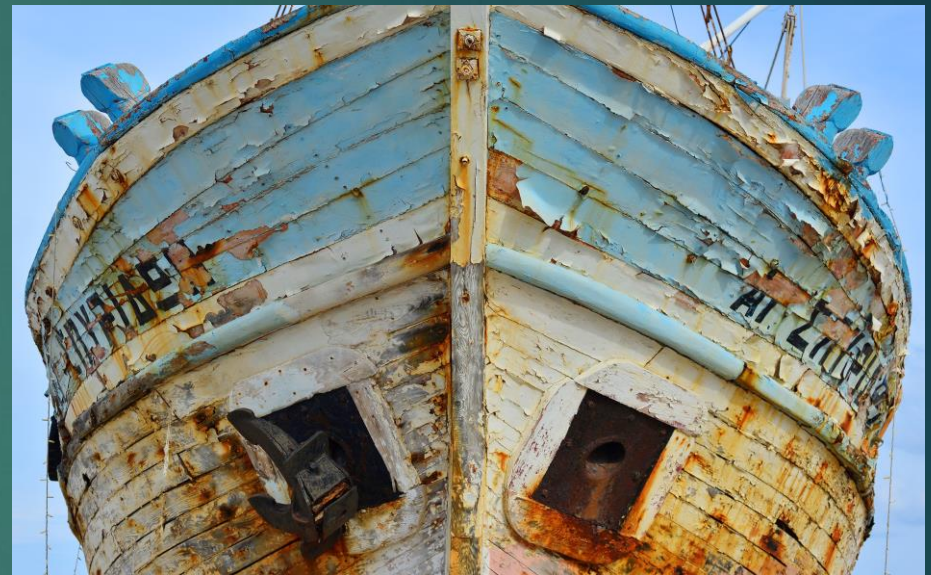
...but keep in mind:

- ▶ practising Responsible Research and Innovation goes well beyond these normative aspects

IPMA: A PORTUGUESE FLEET AGAINST OVERFISHING

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- ▶ Portuguese Sea and Atmosphere Institute (IPMA): state laboratory that promotes and coordinates marine research.
- ▶ The issue: fishing of the black **scabbardfish** poses a threat to deep water **sharks**, which can accidentally be caught alongside them. In 2010, the EU banned this practice completely. Yet, **instead of stopping sharks from being caught, fishers simply stopped reporting the forbidden by-catch and started returning the dead sharks to the sea.**



Example #1: engagement

source: RRI tools

Introduction to the RRI perspective: what it is about and how it emerged within the EU research policy. Alba L'Astorina, Rita Giuffredi, Udine, January 30th, 2020

IPMA: A PORTUGUESE FLEET AGAINST OVERFISHING

- ▶ The process:
A group of key stakeholders was brought together, including marine researchers, fishers and policymakers, to solve this problem. They met for 2 years, and exchanged knowledge, experiences and positions with participative techniques.
Stakeholders were **involved in all stages of the research — from agenda setting to the final follow-up** — to ensure the research answered all the important issues and delivered outcomes that were accessible and user-friendly.
- ▶ Results:
Consensus was reached!
Stakeholders recommended policymakers **to allow a very small shark by-catch**, as well as the definition of protected areas, in order to deliver enough fish to maintain local fishers, without having such an adverse impact on sharks. Allowing just a small percentage of the catch to be landed will also provide the **data** to show where sharks are most at-risk and where catch limits are needed.
- ▶ **A scientific paper (co-authored by multiple stakeholders)** was published



Example #1: engagement

NOVO NORDISK: THE TRIPLE BOTTOM LINE PRINCIPLE FIGHTING DIABETES

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- ▶ Novo Nordisk: a global healthcare company headquartered in Denmark
- ▶ 'Triple Bottom Line': principle formalised in the company's regulation, based on the belief that a healthy economy, environment and society are important for long-term business success.
- ▶ Issue: **rise of diabetes** in Indonesia, accompanying the rise in the standards of living. Low public awareness, lack of specialists, strained hospitals with scant resources and untrained doctors.



Example #2: diversity and inclusivity, responsiveness

NOVO NORDISK: THE TRIPLE BOTTOM LINE PRINCIPLE FIGHTING DIABETES

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- ▶ The process:
To improve access to care, Novo Nordisk established a number of initiatives in Indonesia, including the Inspire **Training Programme**, developed **in collaboration with the Indonesian Society for Endocrinology**. Over 5,000 doctors have been trained through this programme.
- ▶ Results:
By providing doctors with new skills and the **confidence** to deal with diabetes, **trust** has increased among patients, encouraging them to go to their doctor believing they will receive the right treatment and information on how to manage their condition.



Example #2: diversity and inclusivity, responsiveness

SMART-map: INNOVATORS DEALING WITH SOCIETY IN INDUSTRIAL TECH

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- ▶ SMART-map: a CSA in H2020
- ▶ Co-designing and implementing concrete tools and roadmaps for the responsible development of technologies and services within the industrial realm of Precision Medicine, Synthetic Biology and 3D Printing in Biomedicine.
- ▶ Issue: What does it mean exactly that **innovators need to take into account the potential implications and societal expectations** in their work and to adapt their business process accordingly?



source: <http://projectsmartmap.eu/wp-content/uploads/2018/10/SMART-map-ebook.pdf>

Example #3: engagement, diversity and inclusivity, responsiveness

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SMART-map: INNOVATORS DEALING WITH SOCIETY IN INDUSTRIAL TECH

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- ▶ the process: six events across Europe, called Industrial Dialogues, in which people from different backgrounds had to get in contact with each other to discuss the topics from different perspectives and setting the scene for collaboration and exchange. During this selection process all voices were heard and then three selected tools were built as a tangible prototype.
- ▶ results: Smart maps developed, and some pilots tested: e.g. the introduction of an **end-user advisory panel**, which involved patients and doctors and was aimed at experimenting a new approach to a product they are launching on the market. The product is a genetic diagnostic service used to sequence the coding part of the genome. Based on the pilot experience, the company has elaborated eight concrete actions that address important needs and expectations in terms of awareness, training and communication.



source: <http://projectsmartmap.eu/wp-content/uploads/2018/10/SMART-map-ebook.pdf>

Example #3: engagement, diversity and inclusivity, responsiveness