Ricerca e innovazione responsabili: le imprese protagoniste di un' Europa innovativa, sostenibile, socialmente responsabile

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WHY RRI

- R&I are shaping our futures

- Innovation is deeply intertwined with uncertainty (and risks)

- Sorting out grand societal challenges

Health, demographic change, and wellbeing

Climate action, environment, and resources

Food, agriculture and forestry, and water

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

Secure, clean and efficient energy

Secure societies: freedom and security of Europe and its citizens

Smart, green and integrated transport

From RR and RI to RRI

- Some pioneering initiatives (Bassetti, 1995)
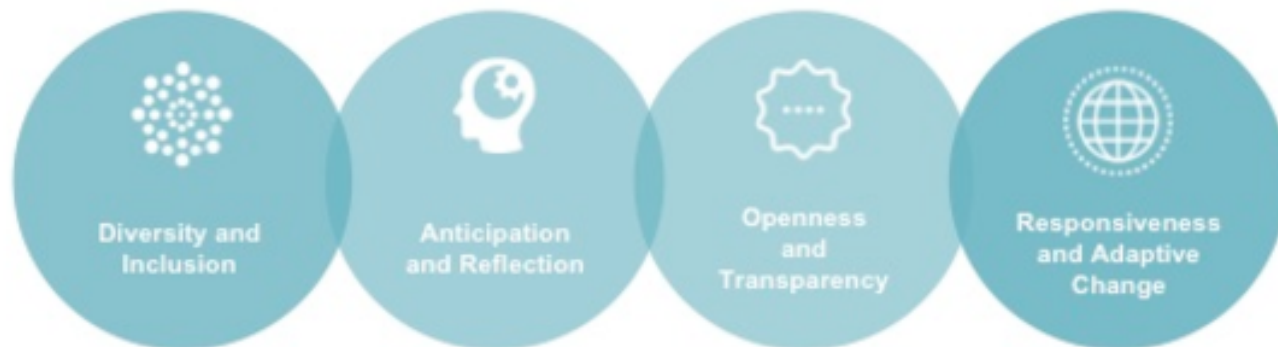- *De-facto* RRI (Randles et al., 2015)

RRI definition

Diverse definitions but not divergent

- Von Schomberg (2013)

Responsible Research and Innovation is a transparent, interactive process by which societal actors and innovators become mutually responsive to each other with a view to the (ethical) acceptability, sustainability and societal desirability of the innovation process and its marketable products in order to allow a proper embedding of scientifc and technological advances in our society

- Stilgoe, Owen and Machnaghten (2013)

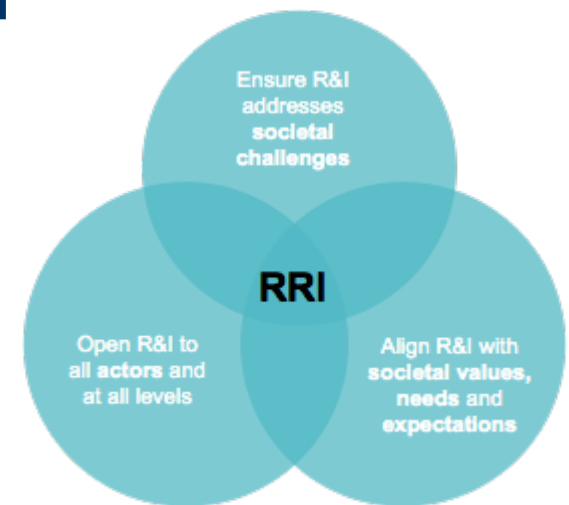*Anticipation, Reflexivity, Inclusion and Responsiveness*

RRI and Horizon2020

- Some preparatory actions in FP5 and FP6

- Explicit appearance in FP7

- Cross-cutting issue

- Dedicated topic: Science with and for Society (SwafS)

- Cited in preamble 22 of EU Regulation No 1291/2013

RRI in EU

Responsible Research and Innovation means that societal actors work together during the whole research and innovation process in order to better align both the process and its outcomes, with the values, needs and expectations of **European society.**

(*"RRI. Europe's ability to respond to societal challenges", EU Commission, 2012*)

THE 5 KEYS OF RRI

- Public engagement

- Gender

- Ethics

- Science Education

- Open Access/Open Science

(Governance)

OTHER DIMENSIONS?

- Social Justice/Inclusion

- Sustainability (Environmental; Affordability)

- Privacy

- Cybersecurity

- Transparency

- Accountability

- …

RRI PROJECTS FOR INDUSTRY

- Responsible Industry (FP7)
- SMART-map (Horizon2020)
- PRISMA (Horizon2020)
- COMPASS (Horizon2020)
- … (next round of H2020 SwafS 2017 call outcomes)

SMART-map

SMART-MAP

SMART·map

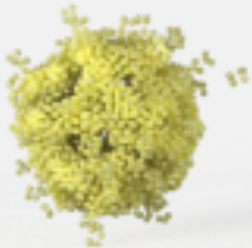RoadMAPs to Societal Mobilisation for the Advancement of Responsible Industrial Technologies

Mobilise society to co-design tools to integrate RRI dimensions in the industrial innovation and facilitate the development of responsible industrial technologies.
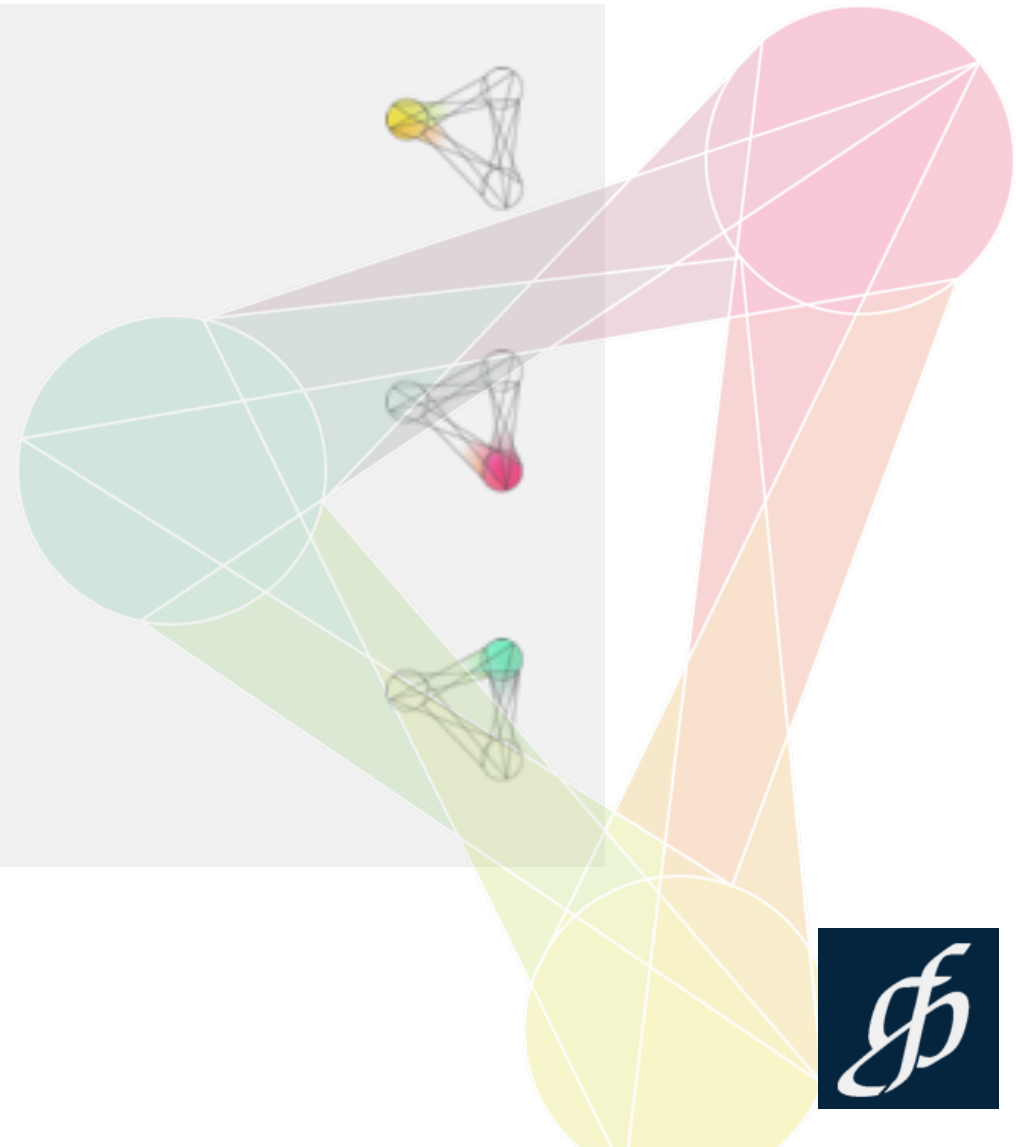
3 INNOVATION TOPICS

SYNTHETIC BIOLOGY

PRECISION MEDICINE

3D PRINTING IN THE BIOMEDICAL FIELD

SMART-map structure

1 INDUSTRIAL DIALOGUES
format -> dialogue meetings

2 TRAINING
select industry -> training

3 IMPLEMENT / EVALUATE

ResAgora
RRI
Navigator

Industrial Dialogues Format

Dialogues
- Synbio
- PresMed
- 3DPrint

Roadmap Training

Implement
- Synbio
- PresMed
- 3DPrint

Evaluation

Roadmaps

RRI Roadmap

Storytelling   Cross-media Production   Activities to Multiply the Impact

RRI ecosystems

- Tools addressed not only to companies

- Joint effort

- Measures and incentives from policy-makers

- Institutionalization of responsible innovation (broader and also at local level)

- Obligation vs. opportunity

Legge regionale
Lombardia è Ricerca e Innovazione

- Almost one year of activity (Legge regionale 29/2016)

- RRI mentioned since Article 1 ("Oggetto e finalità")

HOW DOES RESPONSIBLE INNOVATION DEAL WITH…?

- Open Innovation

- Social Innovation

- Corporate Social Responsibility

- B-Corp

- Responsible Innovation-like tools for industry: Certification and standards

RESPONSIBLE INNOVATION-LIKE TOOLS

Version 1 - For Public Discussion

*It is our intention that by identifying issues and draft recommendations these principles will eventually serve to underpin and scaffold **future norms and standards** within a new framework of ethical governance.*

THANKS

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