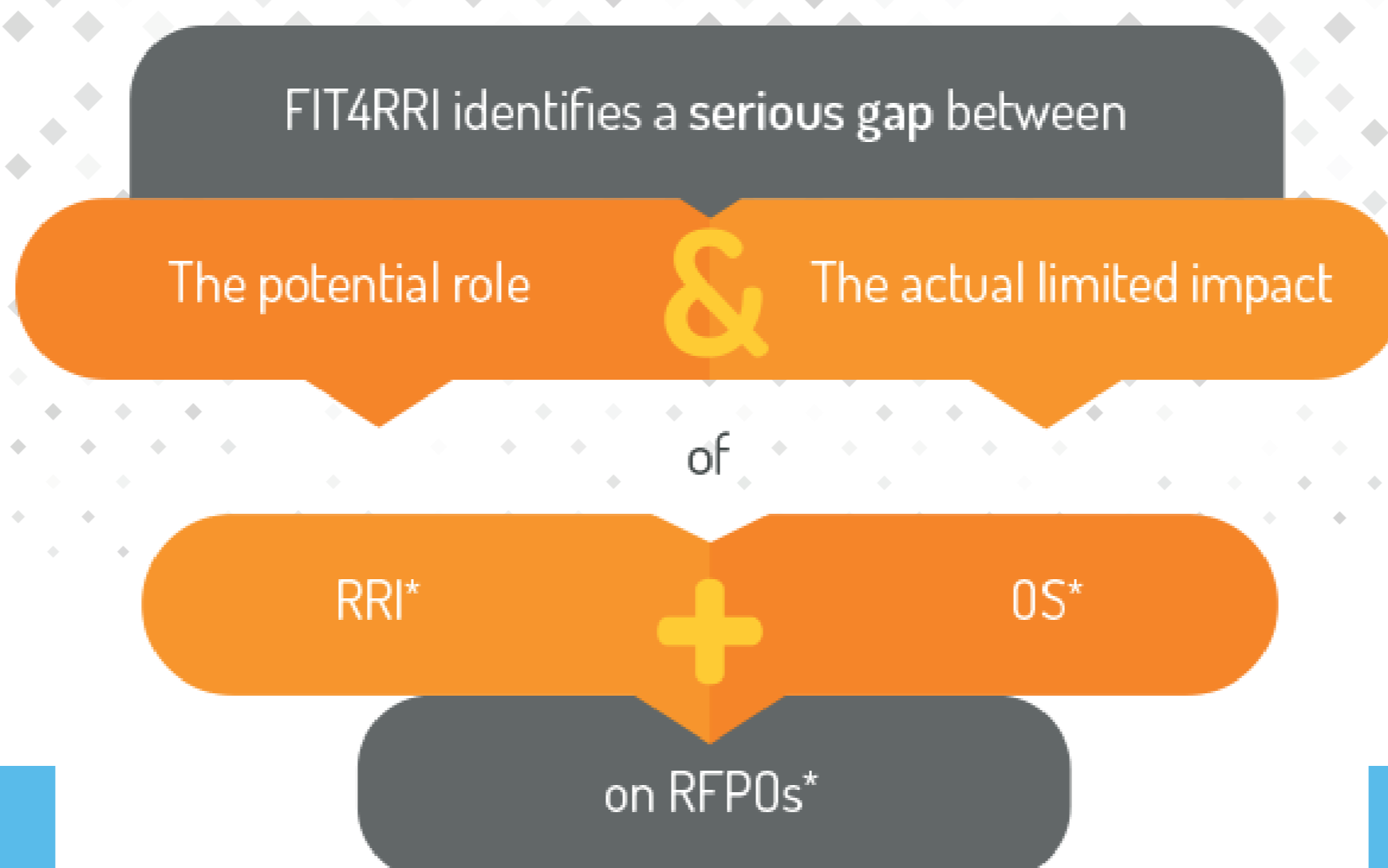


Driving institutional change for open, responsible research & innovation - Results from 3 years of FIT4RRI

Fostering Improved Training Tools for Responsible Research & Innovation



Objectives

- 1 RRI & Open Science training
- 2 Advanced governance settings

Critical trends shaping science

FIT4RRI's extensive literature review identified



of the diffusion and embedment of RRI practices and approaches in RFPOs.

Full version available at doi.org/10.5281/zenodo.2268891



Co-creation experiments

PHOTONICS (Optical Monitoring)
@ University of Liverpool, UK
Embed RRI principles into current ethics & science education practices

ISQ RRI MODEL
@ ISQ, Portugal
Develop an ISQ RRI model & implement it in ISQ R&D unit

TEXT & DATA MINING
@ Open University, UK
Investigate machine accessibility of non-open access publications

MATERIAL SCIENCE
@ University of Rome, Italy
Implement a responsible governance in a new research center

Trends

FIT4RRI identified the critical issues pertaining to RRI and OS for RFPOs:

- Increasing **hyper-competition & acceleration of research process**
- Increasing **pressure on assessment systems**
- Increasing **task diversification**
- Increasing **openness to external actors**
- Shrinking of **research funds**
- Increasing **segmentation**
- Increasing **staffing**
- Increasing **mobility**
- Critical dynamics affecting **quality of research products**
- **Governance shift**

Barriers

Four main families of barriers have been identified, on the basis of the effects they produce:

- **barriers related to awareness** (e.g. cultural attitudes, interaction);
 - **barriers related to the relevance** (e.g. existing priority schemes, incentives);
 - **barriers related to the effectiveness** (e.g. uncertainty, technical issues);
 - **barriers related to sustainability** (e.g. lack of investments, inst. barriers).
- Different factors contribute to produce these effects.

Values & Interests

FIT4RRI identified seven interpretative frames about RRI and Open Science which are recurrently used to mobilise researchers and RFPOs:

- The **self-protection** frame,
- the **quality** frame,
- the **opportunity** frame,
- the **democracy** frame,
- the **management-of-the-future** frame,
- the **alignment** frame
- and the **communication** frame.

Drivers

FIT4RRI also analysed the main drivers to the spreading and implementation of RRI and Open Science:

- **political** drivers,
- **economic** drivers,
- **social** drivers,
- **technological** drivers,
- and **environmental** drivers.

Online courses - RRI Toolkit

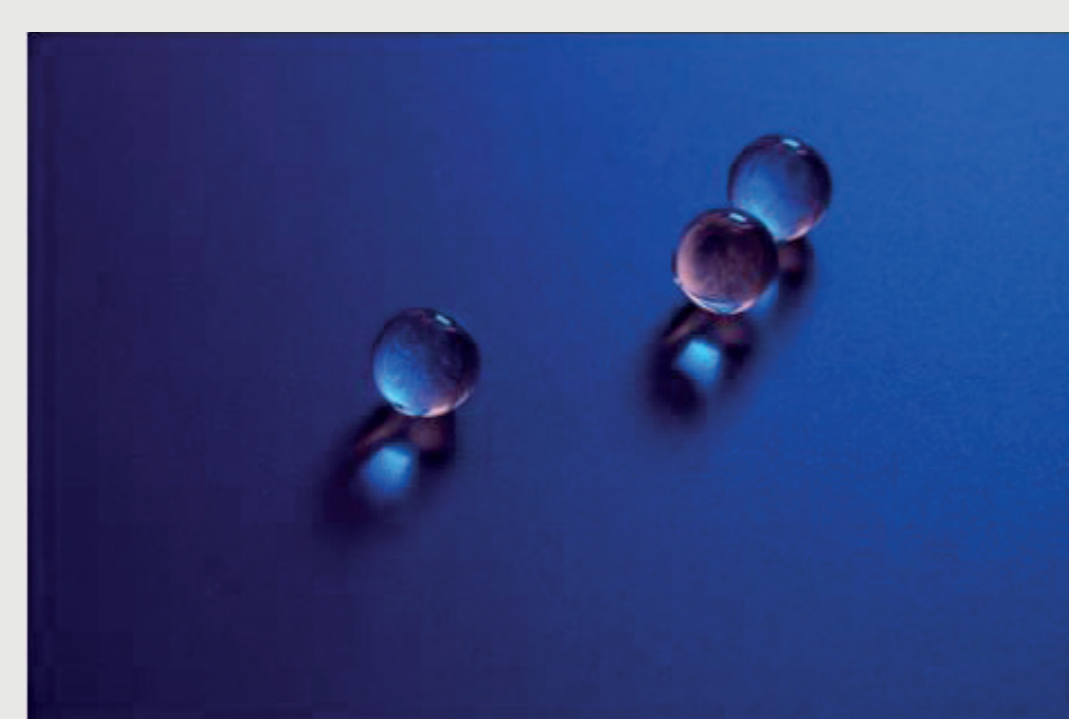
Introduction to RRI



Engaging the Public in RRI



Ethics in RRI



RRI for companies



www.fosteropenscience.eu/rritoolkit

FIT4RRI guidelines

Evidence-based guidelines on governance settings to activate institutional change

Starting the Process



www.fit4rri.eu/guidelines



fosteropenscience.eu/fit4rri



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