



## FIT4RRI Experiments (RRI & OS Embedment)



# WHAT is a FIT4RRI EXPERIMENT ?



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FIT4RRI (H2020/SWAFS, 2017-2020) [www.fit4rri.eu](http://www.fit4rri.eu) –  
RRI&OS embedment via quadruple helix “experiments”

*The action of engaging quadruple helix stakeholders in an observation of an ongoing research towards identifying ways that quadruple helix co-creation would enable a proper RRI and OS embedment in the ongoing research as well as in the organizations of the participating quadruple helix stakeholders.*



# Experiment rationale



- Testing in different RFPOs advanced governance settings favouring the adoption and the embedment of RRI and OS practices and tools

RRI & OS Adoption

- Testing in different RFPOs advanced training tools and actions favouring the enhancement of skills and competence of RRI and OS - related issues

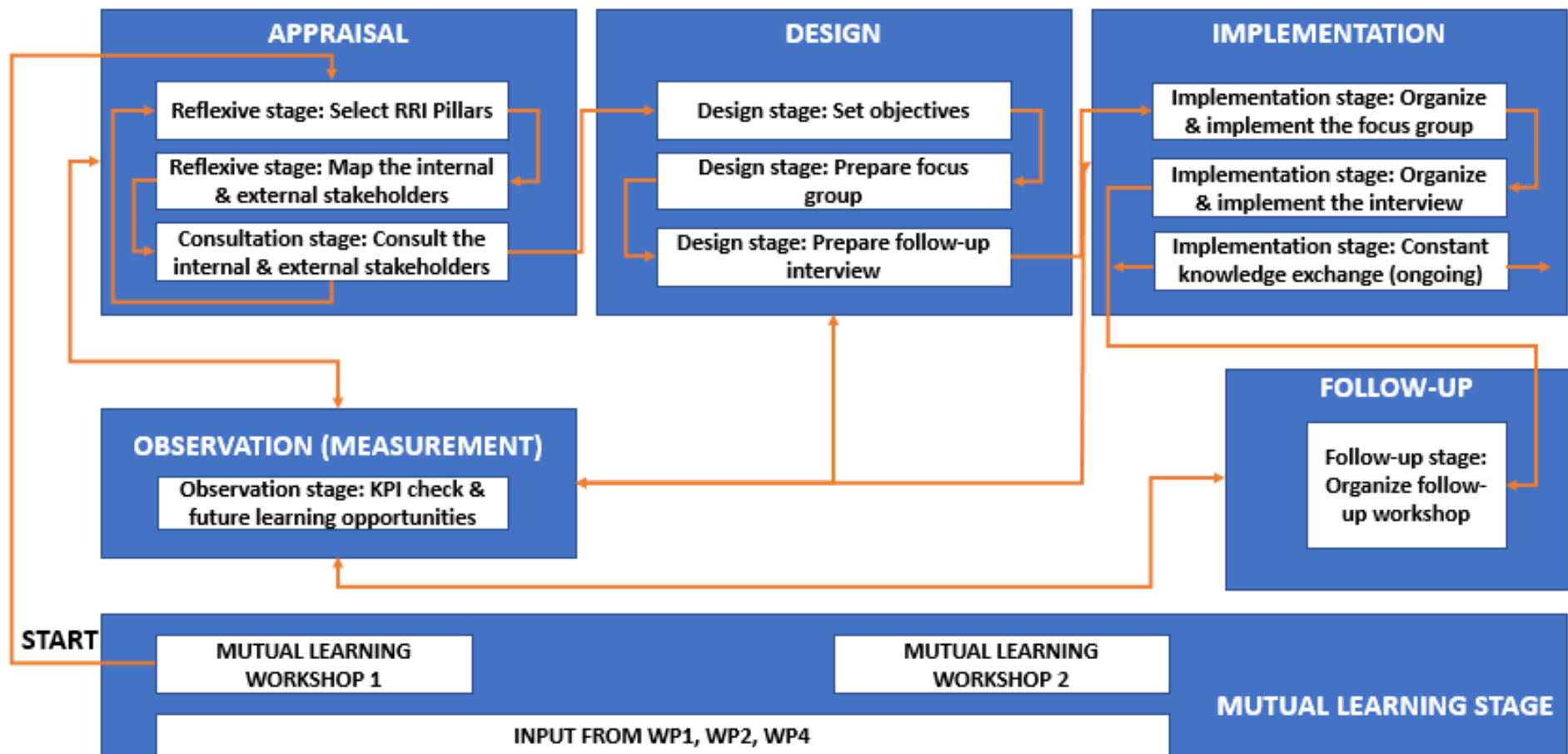
RRI & OS Skills

- Testing in different RFPOs procedures favouring the activation of institutional change processes making the introduction of new governance settings and new training approaches really possible

Institutional Change



# Experiment organization methodology





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## Observation stage KPIs:

### Quantitative:

Representation of each internal & quadruple helix actor

Interest in RRI of each internal & quadruple helix actor [beginning & end of experiment ]

Awareness of RRI of each internal & quadruple helix actor [at the beginning & end]

Perceived usefulness of RRI of each internal & quadruple helix actor [at the beginning & end]

Number of RRI best practices evaluated and highly rated by the stakeholders

Number of internal stakeholders involved in the experiments

Number of quadruple helix consensus solutions (common agreed plans/steps)

Number of RRI pillars focused upon

Number of RRI best practices considered for assessment of their potential implementation

### Qualitative:

Policy change recommendations

Organizational change recommendations

Industry/RFPO proposals for collaboration with researchers

Society-driven proposals for collaboration with researchers

Observation of result/best practice multiplication in the quadruple helix ecosystem





## The 4 Experiments





## THE BIGGEST TECHNOLOGY INFRASTRUCTURE IN PORTUGAL

ISQ is a private non-profit and independent entity with more than 50 years of activity. It has large industrial and service companies in the Country as their Associates.

# Goals

To build an ISQ RRI  
Model

**NEW R&D  
DEPARTMENT  
FULLY BASED ON  
RRI**





## 3 More experiments – results/impact:



RRI-based Societal Fablab/Co-creation Centre in Rome – SaPeRi & Co (Sapienza Univ.)

Cross-sectoral/topic RRI-based PG research in Univ. Liverpool, UK (all PG research to become RRI-based)

Fighting the big publishers & convincing them to open up data (Open University, UK)

Engaged stakeholders – further project spin-offs (i.e. RRI-based impact investment, etc).



# Experiments Comparative Report



# Internal Stakeholders

Internal Stakeholders	Experiment and Organizers				
	Material Science (Sapienza)	Text and Data Mining Big Data (Open University)	Big Scholarly	Photonics - Optical Monitoring (University of Liverpool)	Building ISQ RRI Model (ISQ)
Project Managers	X	X		X	X
Heads of Units					X
Researchers	X	X		X	X
Directors					X
Managers					X
PhD Students	X			X	
Research Support Staff					
Ethics Board Members				X	
Post Docs	X				



# External Stakeholders

Experiment and Organizers External Stakeholders	Material Science (Sapienza)	Text and Data Mining Big Scholarly Data (Open University)	Photonics - Optical Monitoring (University of Liverpool)	Building ISQ RRI Model (ISQ)
Academia	X	X	X	X
Industry	X	X	X	X
Government	X	X	X	X
Society	X		X	X



# Main blockers



Experiment and Organizers	Material Science (Sapienza)	Text and Data Mining Big Scholarly Data (Open University)	Photonics - Optical Monitoring (University of Liverpool)	Building ISQ RRI Model (ISQ)
<b>Main Blockers</b>				
Insufficient solutions				X
No immediate change of mindset				X
No proven advantage of RRI				X
Limited involvement of society		X		
Money			X	
Public Perception			X	
Why is it needed?			X	
Lack of awareness			X	
Turst			X	
Culture			X	
Time		X	X	
Communication			X	
Quadruple helix co-creation knowledge	X			



# Issues & challenges during the experiment implementation

Experiment and Organizers	Material Science (Sapienza)	Text and Data Mining Big Scholarly Data (Open University)	Photonics - Optical Monitoring (University of Liverpool)	Building ISQ RRI Model (ISQ)
Delays in getting ethical approval			X	
Getting beneficiaries for the product			X	
Political barriers	X			
Institutional barriers	X			
Social barriers	X			
Organizational and technical challenges		X		
Resistance in HR department				X
Delays due to summer period				X
Reluctance in sharing contact details				X
Discreditation from employees				X
Lack of commitment from higher management				X
Lack of participants				X
Postponed actions by people				X
Changes in the project				X
Very bureaucratic process				X





[www.fit4rri.eu](http://www.fit4rri.eu)

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