

Conference 'Sea for Society'  
Improving Human-Ocean Dynamics by Building a "Blue Society",  
Brussels, Wednesday 18 November 2015

# Responsible Research and Innovation (RRI) in a 'Blue Society'

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**DG RTD B7.003**  
**'Mainstreaming RRI in**  
**Horizon 2020 and ERA'**



# Summary

- I. Science and Society Ecosystem in Europe*
- II. Responsible Research and Innovation (RRI)*
- III. Recommendations from Sea for Society*

# Science and Society Ecosystem

## WHO?

- *R&I funding and performing organisations*
- *Business organisations*
- *Policy-makers (at all levels)*
- *Civil Society Organisations (NGOs)*
- *Universities, higher education establishments, professors, teachers, students and pupils*
- *Science museums and science centres,*
- *Foundations and philanthropic organisations,...*

# Main Milestones

*2000 Science, Society and the Citizen in Europe*

*2001 Science and Society Action plan*

*2002 Science and Society (FP6)*

*2007 Science in Society (FP7)*

# An early example: GAP1&2



## GAP1&2

April 2008 – February 2015

« ... an **evidence-based approach** that uses **participation** as the vehicle to **improving understanding** on fisheries research and **management issues** of common concern to stakeholders, scientists and policy makers. »

# Another example: Sea for Society



sea for  
SOCIETY. eu

TOWARDS A BLUE SOCIETY

SFS

June 2012 – November 2015

« ... aims to **develop an ambitious vision** for society in Europe; a vision embracing the spirit of sustainability, wellbeing and equity for human kind in harmony with the ocean: the **Blue Society.** »

# Main Milestones

*2000 Science, Society and the Citizen in Europe*

*2001 Science and Society Action plan*

*2002 Science and Society (FP6)*

*2007 Science in Society (FP7)*

*2014 Science With And For Society and  
Responsible Research and Innovation  
(Horizon 2020)*

# **A simple strategy**

***Science and society:***

***An Ecosystem***

***A systemic approach:***

***Responsible Research and Innovation***



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# RRI: a 'cross-cutting issue' in H2020

## *Three main priorities*

(Part I) Excellent science, EUR 24441 million\*

(Part II) Industrial leadership, EUR 17015 million\*

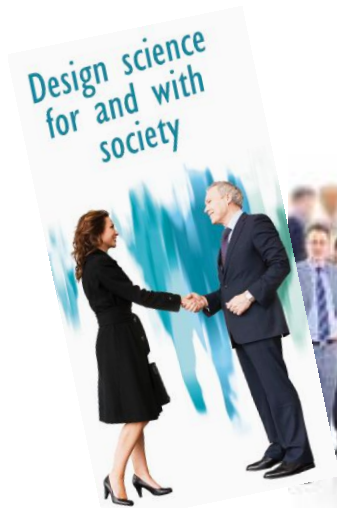
(Part III) Societal challenges, EUR 29679 million\*

Part V: Science with and for Society EUR 462,2 million\*

\* Initial amounts in 2013 Decisions

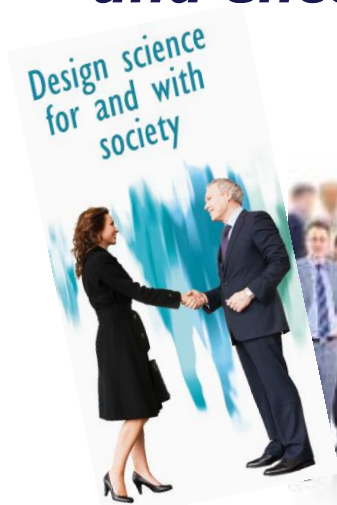
# What is Responsible Research and Innovation?

*RRI is a process where all societal actors (researchers, citizens, policy makers, business) **work together** during the whole R&I process in order to align R&I outcomes to the **values, needs and expectations** of European society*



# What is Responsible Research and Innovation?

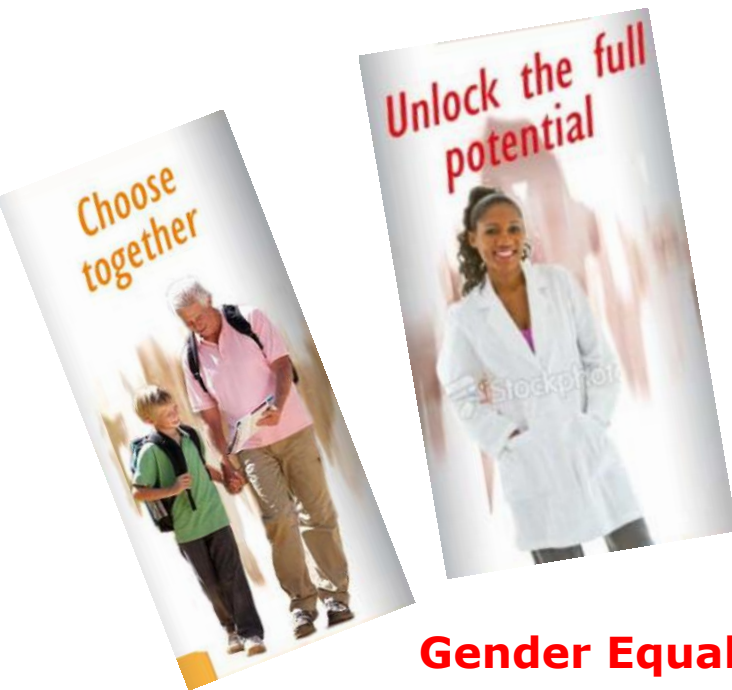
***Horizon 2020 cross-cutting issue:  
engaging society, integrating the gender and ethical  
dimensions, ensuring the access to research outcomes  
and encouraging formal and informal science education.***





European  
Commission

# RRI across Horizon 2020



**Gender Equality**

**Engagement**



**Science  
Education**



**Ethics**



**Open  
Access**

# Science and Society Ecosystem

# HOW?

**Policy debate on the 'Rome  
Declaration on RRI' at the  
Competitiveness Council  
(04/12/2014)**

[http://ec.europa.eu/research/swafs/pdf/rome\\_declaration\\_RRI\\_final\\_21\\_November.pdf](http://ec.europa.eu/research/swafs/pdf/rome_declaration_RRI_final_21_November.pdf)



# Science and Society

# HOW?



We call on European Institutions, Member States, Regional Authorities and Research and Innovation Funding Organisations to:

- Build **capacity** for RRI;
- Review and adapt **metrics** and narratives for R&I;

We call on public and private Research and Innovation Performing Organisations to:

- Implement **institutional changes** that foster RRI.

# Calls SWAFS WP 2016 Budget

Calls	2016 budget M €
Institutional Change to Support Responsible Research and Innovation	19,5
Embedding Responsible Research and Innovation in Horizon 2020	6,8
Strengthening the Science with and for Society Knowledge Base	pm
Developing Inclusive, Anticipatory Governance for Research and Innovation	28,42
<b>TOTAL</b>	<b>54,72</b>



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# General appreciation

Impressive achievements:

- Mobilisation and Mutual Learning Action Plan
- 20 partners
- 42 months
- EUR 4.260 M
- Consultation of young people
- Consultation of stakeholders
- Stakeholders recommendations
- Blue Society principles
- Stakeholders commitments,...

# Stakeholders recommendations

## 1. Promote marine research

"Stimulate research interconnectivity [...] through Calls tailored to **collaborative projects** and the creation of an international knowledge exchange platform (for research methods and the dissemination of results)."

Example:

Creation of **multidisciplinary teams** in public and scientific institutions, productive sectors, etc.

# Stakeholders recommendations

## 2. Stimulate innovation

"Coordinate certain research programmes with innovation policies ; create the conditions that **enable and foster dialogue and collaboration** between the **research community, the private sector, policymakers and citizens.**"

### Example:

Develop a new strategic innovation and research agenda for the marine sector

# Stakeholders commitments

## Regarding Marine Research and Development

Requests towards EC, MEPs and national bodies to:

- Promote marine science research
- Develop regional facilitating bodies for **responsible research and innovation**, based on dialogue and long-term collaboration between the scientific community, private sector, policymakers and engaged citizens.

# Horizon 2020 WP 2016–2017

## 9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

"The concept of **Responsible Research and Innovation** (RRI) underpins this work programme, aiming to align research and innovation to the values, needs and expectations of society.

...

Whether the focus is on multi-actor involvement or on citizen engagement, the approach chosen should be reflected in the methodological description of project proposals."

# Horizon 2020 WP 2016–2017

## 16. Science with and for society

### **SWAFS-04-2016 – Opening Research organisations in the European Research Area [EUR 3 to 3.35 million]**

...

"This topic focuses on the institutional changes needed to cope with the **new interactions** between Research Funding and Performing Organisations (RFPOs) and RRI stakeholders. Existing RFPOs become more "**porous**", accepting **inputs from what used to be seen as outsiders** (extended peer review in funding agencies is an early example)."

# Conclusion

Proximity between projects funded and policy making allowed an on-going integration of recommendations,

in line with

'Open Innovation, Open Science and Open to the World' strategy of Commissioner Moedas.

2016-2017: Preparation of the next Horizon 2020 Strategy/Work Programme for 2018 to 2020

2016-2017: Preparation of the proposal for the next Framework Programme for Research and Innovation (?)



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**Thank you for your  
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