

The NUCLEUS Project

*Crossing Borders,
Transcending Boundaries*



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 664932.



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Science and Society



*Excellence today is about more than ground-breaking discoveries –
it includes openness, responsibility and the
co-production of knowledge.*

Rome Declaration, 2014

How can we align research with the values and needs of society?



Responsible Research and Innovation

Crossing borders between science and society via...

- Open communication
- Transparency
- Accountability



Sounds good, but...

...how can we translate this complex idea into academic practice?



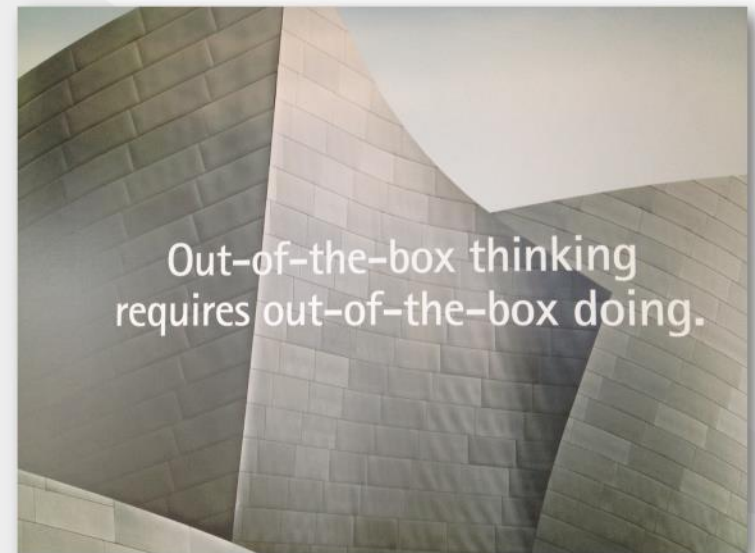
How can we implement RRI in the governance of universities?

Institutional change?

New administrative units?

New management concepts?

New leadership?



How can we implement RRI in the academic culture of universities?

Training for scientists?

Different career options?

More time?

More money?



What do the leaders of universities and research institutes think?

Do they embrace the new idea of RRI?

Do they understand it?

Are they afraid of losing their autonomy?



New Understanding of Communication, Learning and Engagement in Universities and Scientific Institutions



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The NUCLEUS Project

September 2015 until August 2019

€4 million funded by HORIZON 2020

24 Consortium Members from 14 countries in Europe, South Africa, and China

Transdisciplinary consortium: Universities, cities, scientific associations, European public engagement networks



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The **NUCLEUS** approach

Each academic institution is like a “cell” – a distinct individual organism

The **NUCLEUS** is responsible for the cell’s development and growth

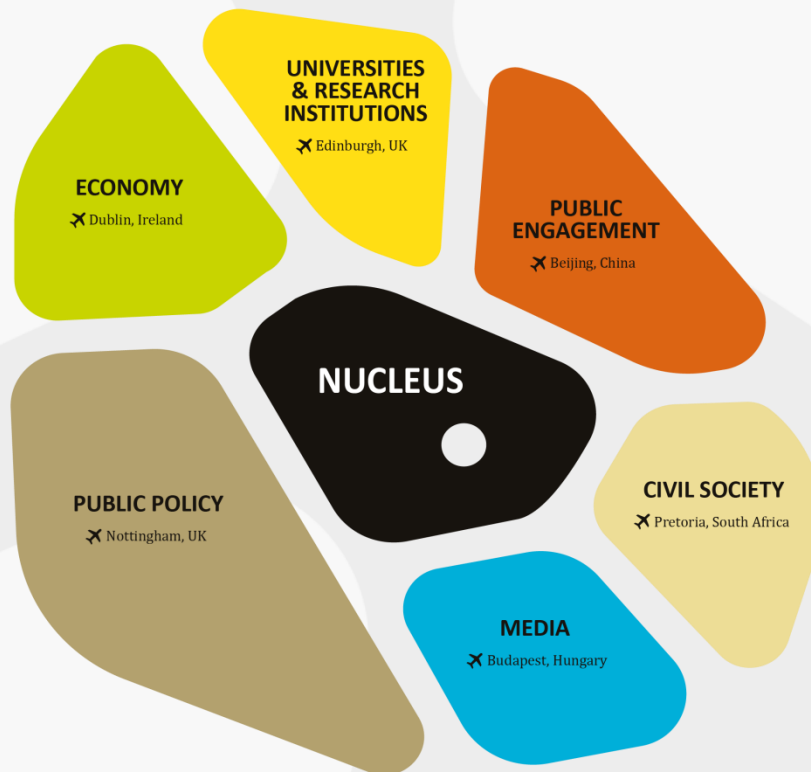
A cell can perform larger and more complex tasks in a cluster with other cells



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THE NUCLEUS FIELD TRIPS

*Learning from the
different cells of society*



THE NUCLEUS PROJECT

Project Management · Dissemination & Communication · Monitoring



Goal: Developing an “RRI Roadmap”



...and putting it in place!



RRI “Petri Dishes”



10 *Institutionalised* NUCLEI
2 Years, test beds for RRI



20 *Mobile* NUCLEI
Modular approaches like
workshops, trainings,
exhibitions, science cafes

Our Goal after 4 Years

Practical recommendations for leaders of research institutions on how to **implement RRI...**

...developed with an understanding of academic culture and perspectives...

...tested in real academic environments!

A “DNA” for RRI!





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The NUCLEUS Consortium

-  **Beijing Association for Science and Technology (BAST), China**
-  **Bielefeld University, Germany**
-  **China Research Institute for Science Popularization (CRISP), China**
-  **City of Bochum/UniverCity Network Bochum, Germany**
-  **Delft University of Technology, the Netherlands**
-  **Dublin City University, Republic of Ireland**
-  **European Science Events Association (EUSEA), Sweden**
-  **European Union of Science Journalists' Association (EUSJA), France**
-  **Ilia State University Tbilisi, Georgia**
-  **Mathematical Institute of the Serbian Academy of Sciences and Arts, Serbia**
-  **Nottingham City Council, UK, England**
-  **Nottingham Trent University, UK, England**
-  **Psiquadro, Italy**
-  **Rhine-Waal University of Applied Sciences (Coordinator), Germany**
-  **Ruhr University Bochum, Germany**
-  **Science City Hannover, Germany**
-  **Science View, Greece**
-  **South African Agency for Science and Technology Advancement, South Africa**
-  **Université de Lyon, France**
-  **University of Aberdeen, UK, Scotland**
-  **University of Edinburgh, UK, Scotland**
-  **University of Malta, Malta**
-  **University of Twente, the Netherlands**
- **Wissenschaft im Dialog, Germany**



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