

# THE NUCLEUS PROJECT

*Bringing RRI to Life*



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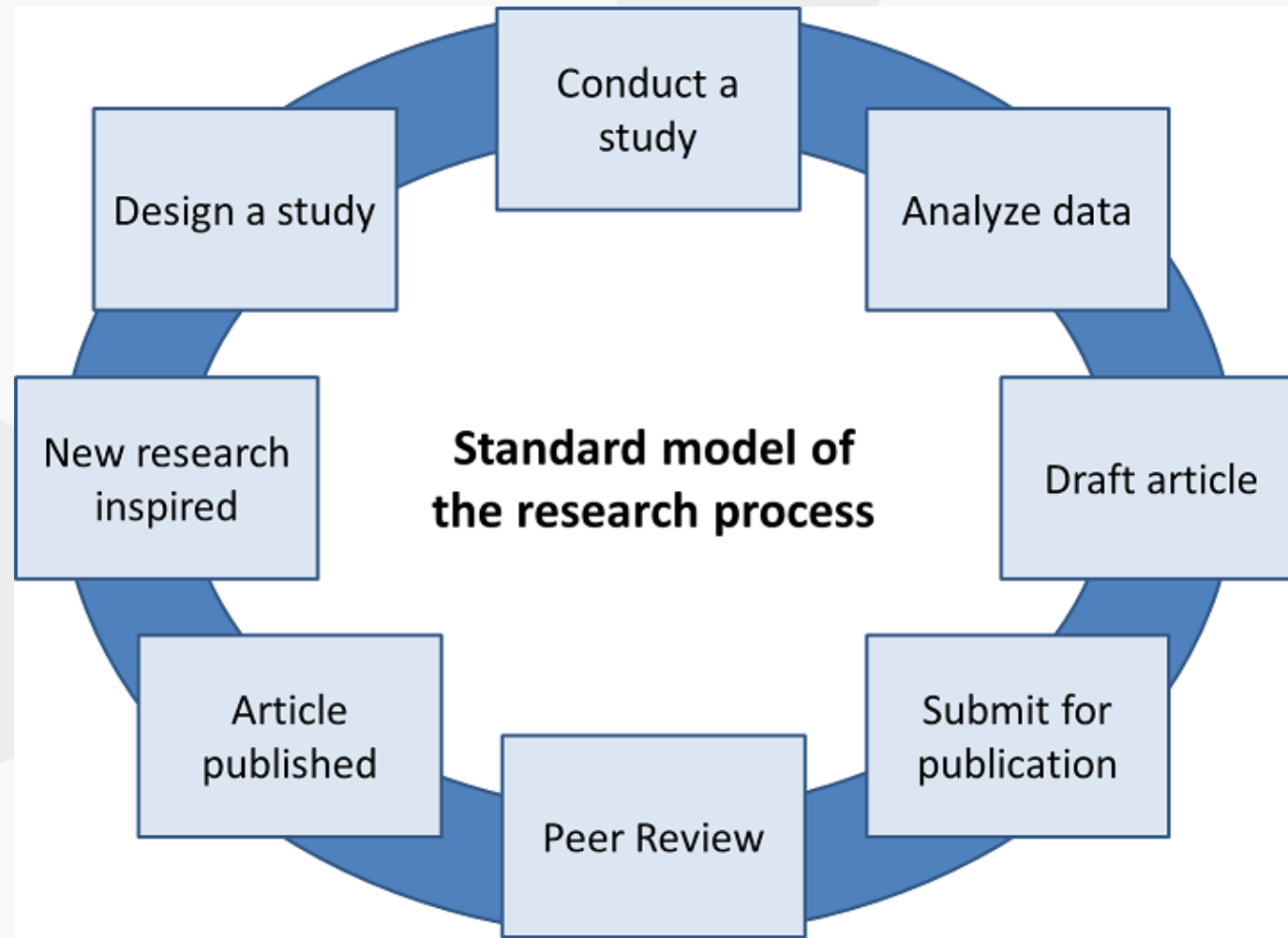
*Excellence* today is about more than  
ground-breaking discoveries –  
it includes *openness, responsibility* and the  
*co-production of knowledge.*

EC, Rome Declaration on RRI, December 2014



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# OPENNESS? CO-RESPONSIBILITY?



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# NEW DEFINITION OF EXCELLENCE?



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# RRI: DEFINITION

*RRI implies that **societal actors** (researchers, citizens, policy makers, business, third sector organisations, etc.) **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 society**.*



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# MORE STAKEHOLDERS = BETTER SCIENCE?



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# "THE" SOCIETY



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# POLICY MAKERS



## MAYORS IN ACTION



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# THIRD SECTOR ORGANISATIONS



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# ECONOMY



# MEDIA: STAKEHOLDER OR OBSERVER?



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**THE ISSUE IS SERIOUS!**

WHAT KIND OF RESEARCH  
DO WE WANT IN THE FUTURE?



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# DEMAND-DRIVEN RESEARCH?

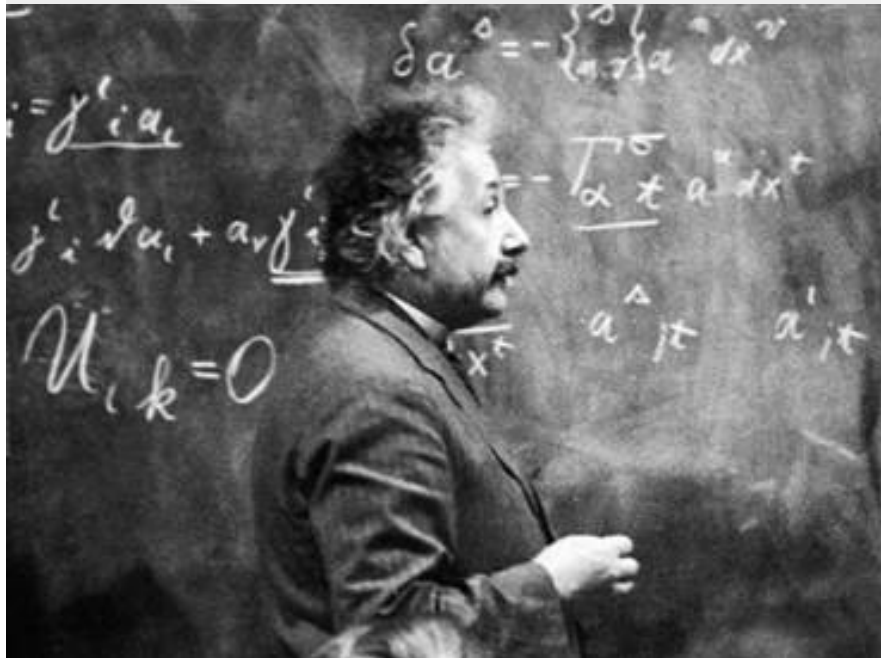
Should research follow social, economical or political demands?



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# KNOWLEDGE-DRIVEN RESEARCH?

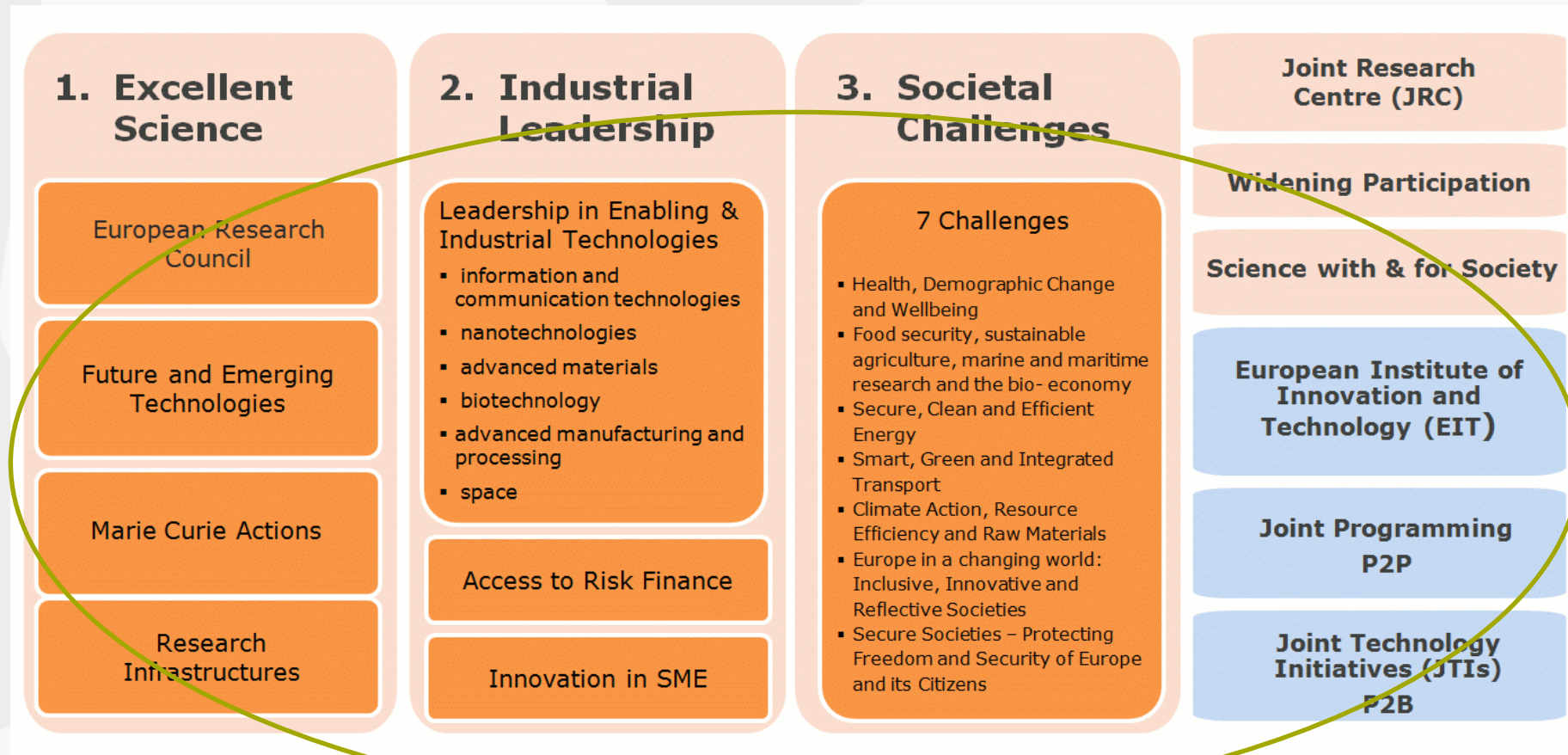
Should research only follow interest? Should the generation of knowledge come first – and the practical adaptations follow?



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# RRI: Cross Cutting Topic with Increasing Relevance

HORIZON 2020 Research Framework



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**New Understanding of,  
Communication, Learning and  
Engagement in Universities and  
Scientific institutions**

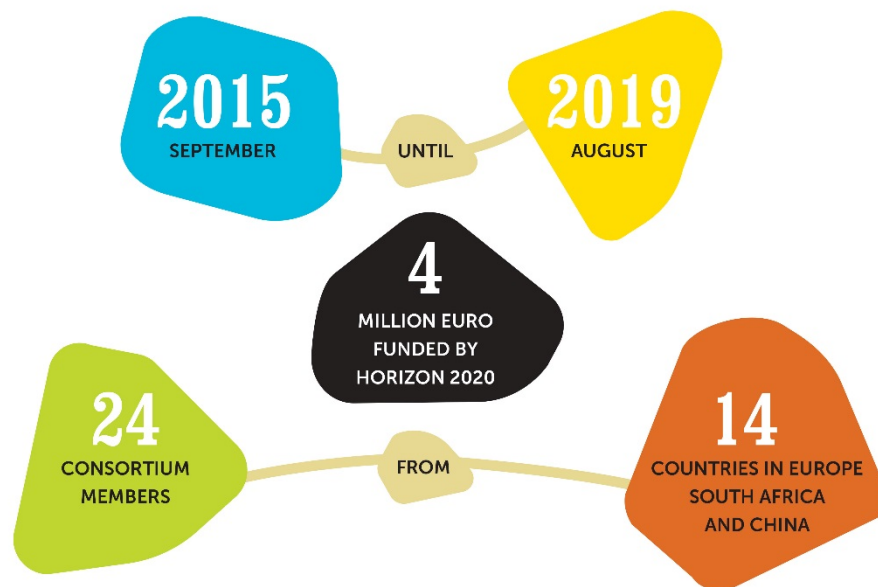


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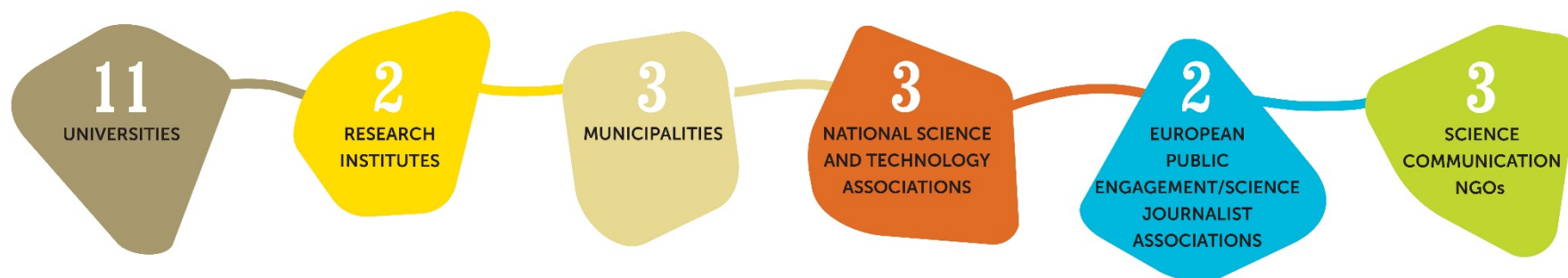


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## THE NUCLEUS PROJECT IN NUMBERS



### STRONG NETWORK OF INTERDISCIPLINARY PARTNERS:



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# The NUCLEUS Consortium

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



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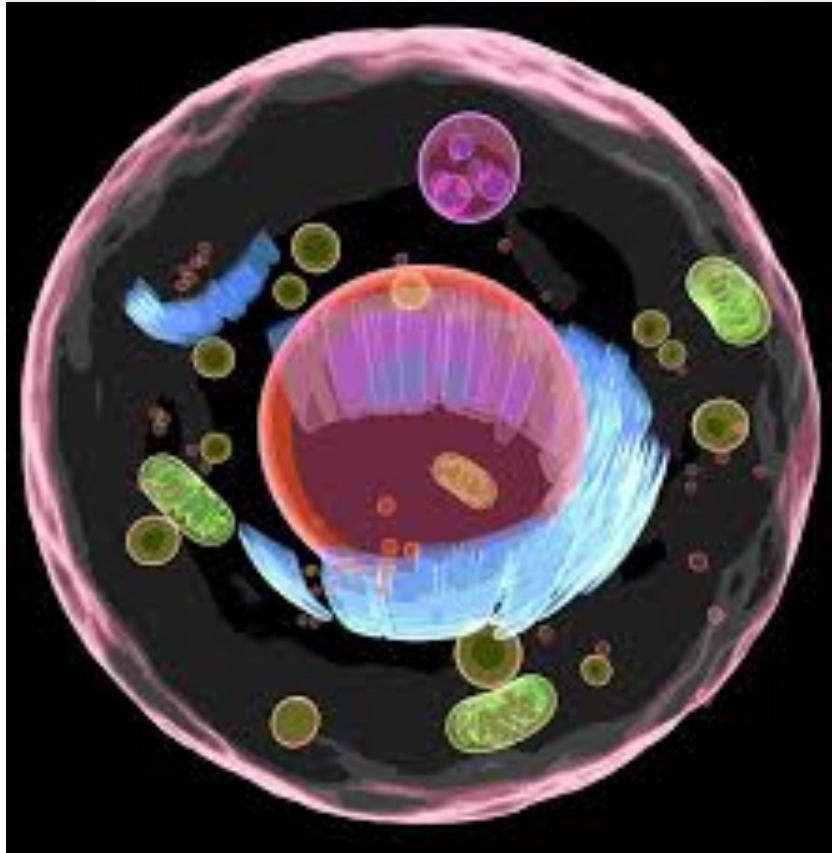


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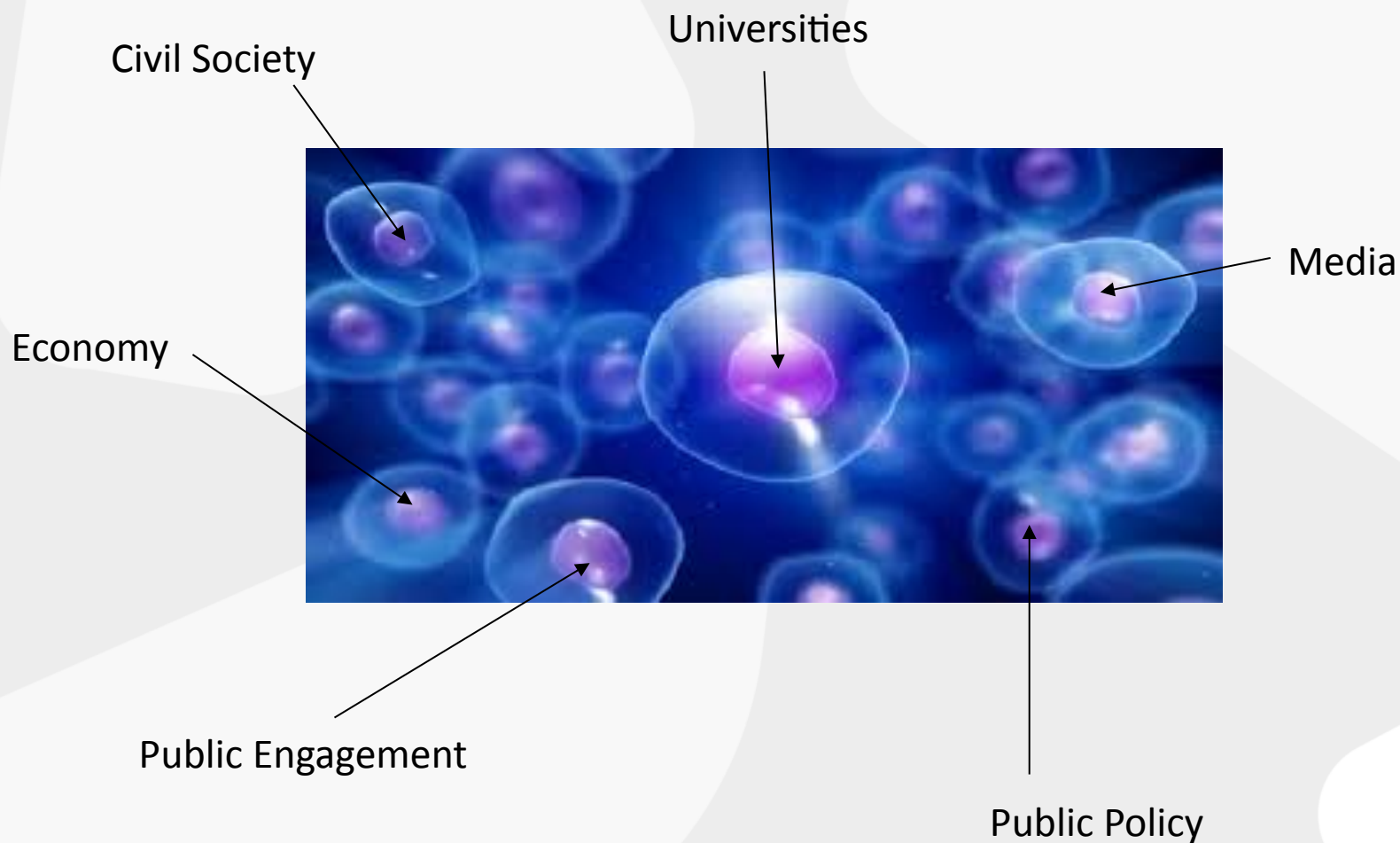
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# THE NUCLEUS APPROACH



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# THE NUCLEUS APPROACH





## THE NUCLEUS APPROACH

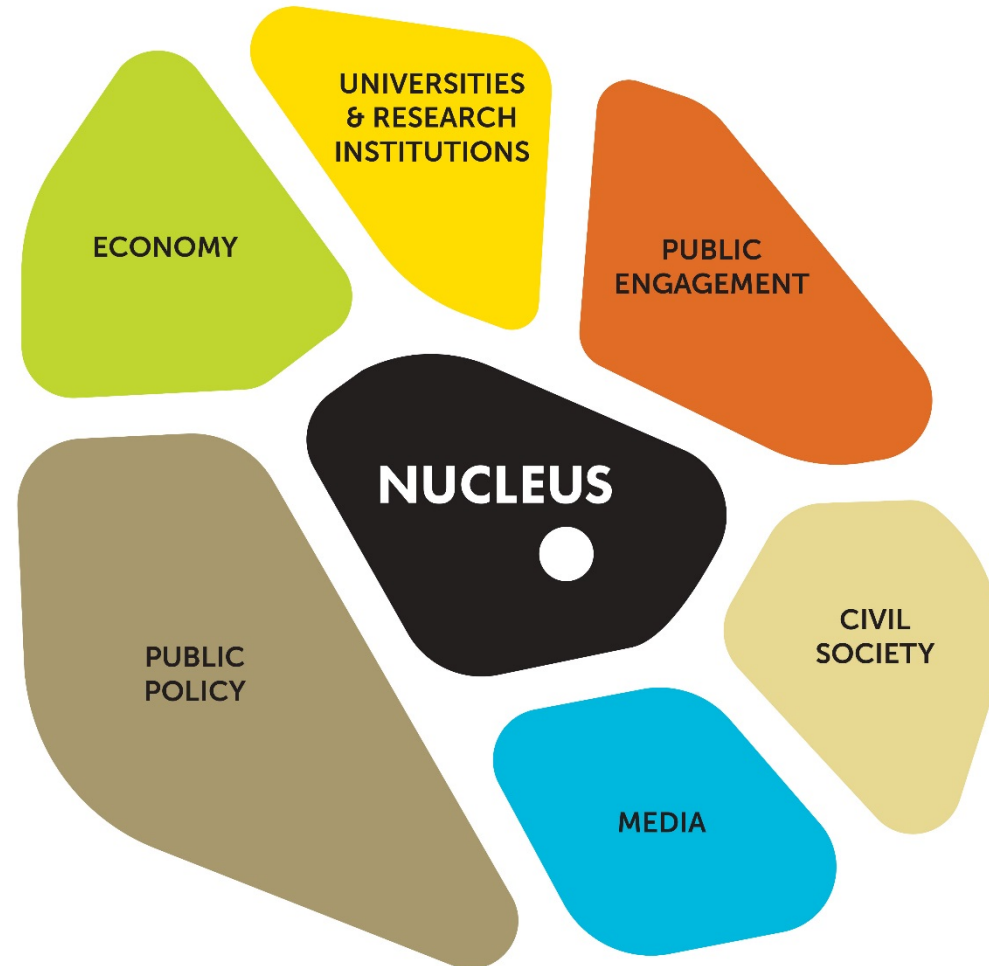
EACH ACADEMIC INSTITUTION  
IS LIKE A "CELL" - A DISTINCT  
INDIVIDUAL ORGANISM

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THE NUCLEUS IS RESPONSIBLE  
FOR THE CELL'S DEVELOPMENT  
AND GROWTH

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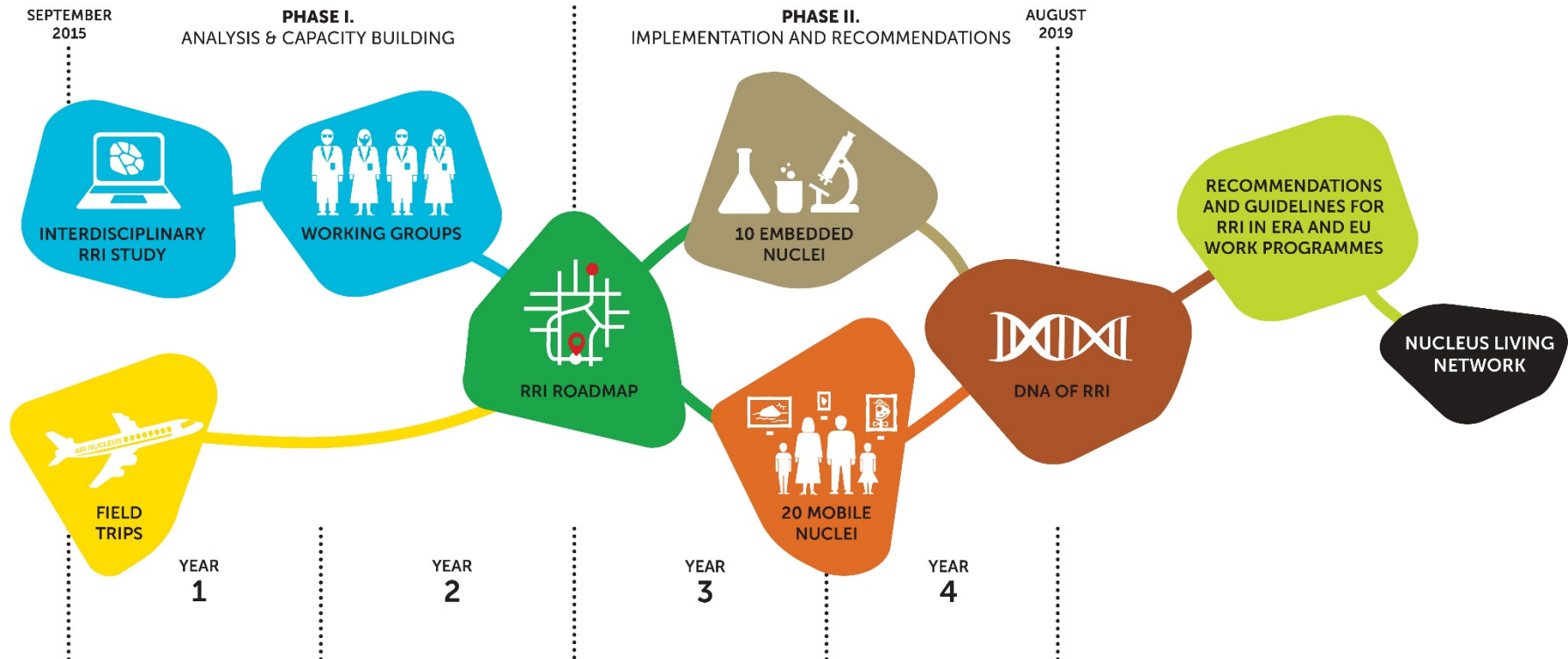
A CELL CAN PERFORM LARGER  
AND MORE COMPLEX TASKS IN A  
CLUSTER WITH OTHER CELLS.



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# THE NUCLEUS PROJECT

## TIMELINE



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# NUCLEUS FIELD TRIPS

## RRI IN PRACTICE

Budapest - Media



Edinburgh - Universities



South Africa – Civil Society



Nottingham - Policy



Dublin - Economy



Beijing – Public Engagement



# NUCLEUS STUDY ON RRI BARRIERS

Qualitative Interviews  
with more than 100  
academic leaders in  
Europe

Cross-cultural analysis in  
Europe, South Africa and  
China



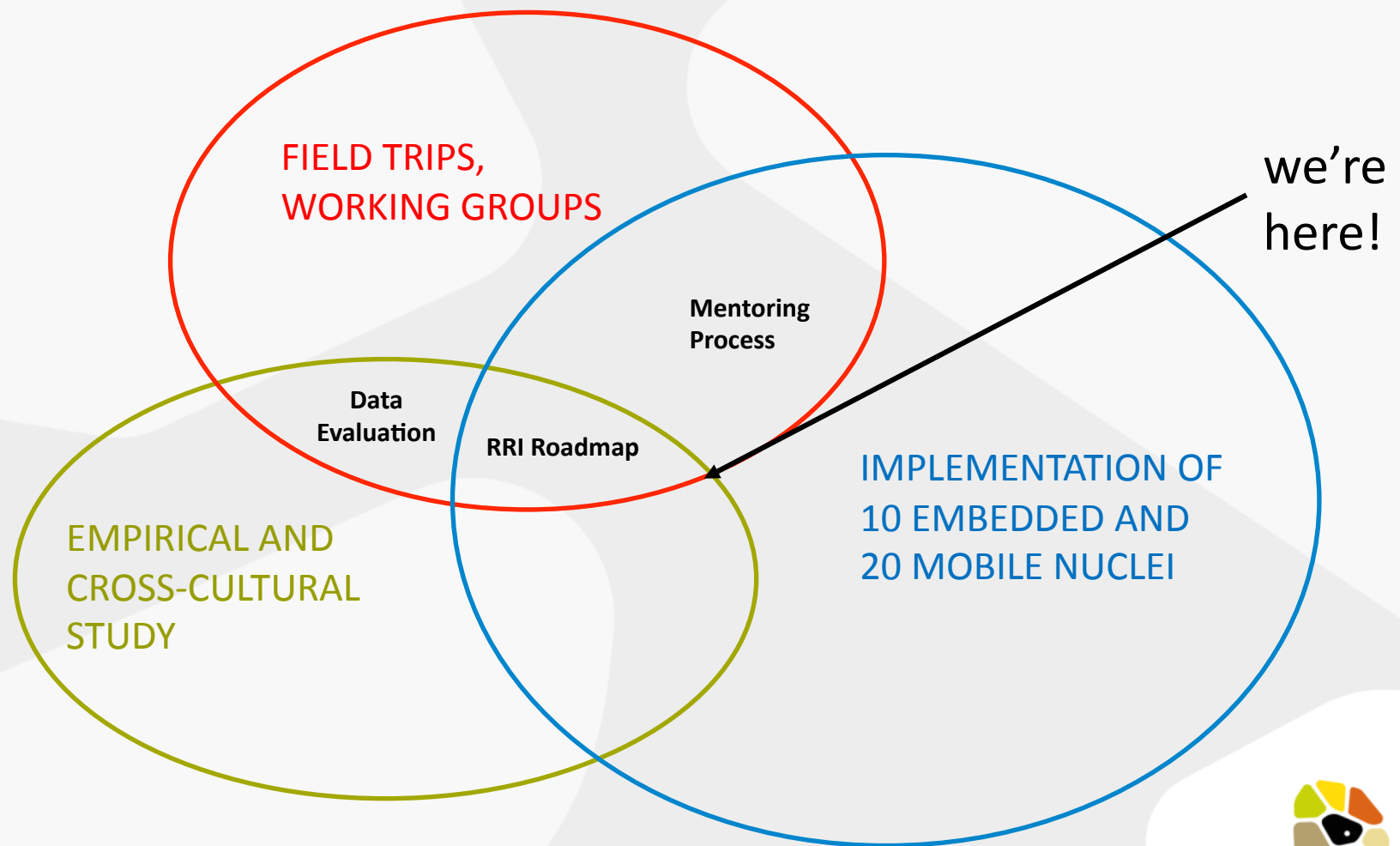
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# QUESTIONS

- What are **barriers** and **successes** to the **implementation** of RRI?
- What can be **recommended** for the future implementation of RRI in **Universities**?



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# 30 NUCLEI: RRI “PETRI DISHES”



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



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



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**N**ETWORKS OF STAKEHOLDERS  
**U**NDERSTANDING OF MULTIPLE PUBLICS  
**C**O-CREATION  
**L**EARNING FOR CHANGE  
**E**NGAGEMENT WITH THE PUBLIC  
**I**NSTITUTIONAL STRUCTURES





# 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!**



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# RESULT: A “DNA” FOR RRI



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*You can follow the project  
online at:*



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[nucleus-project.eu](https://nucleus-project.eu)



[facebook.com/NucleusRRI](https://facebook.com/NucleusRRI)



[twitter.com/NucleusRRI](https://twitter.com/NucleusRRI)



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