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# Human Brain Project

## RRI in the HBP

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# Rome Declaration

Responsible Research and Innovation (RRI) is the ongoing process of aligning research and innovation to the values, needs and expectations of society.



21.11.2014





## RESEARCH COMMUNITY

RRI is a way to do research that takes a long-term perspective on the type of world in which we want to live

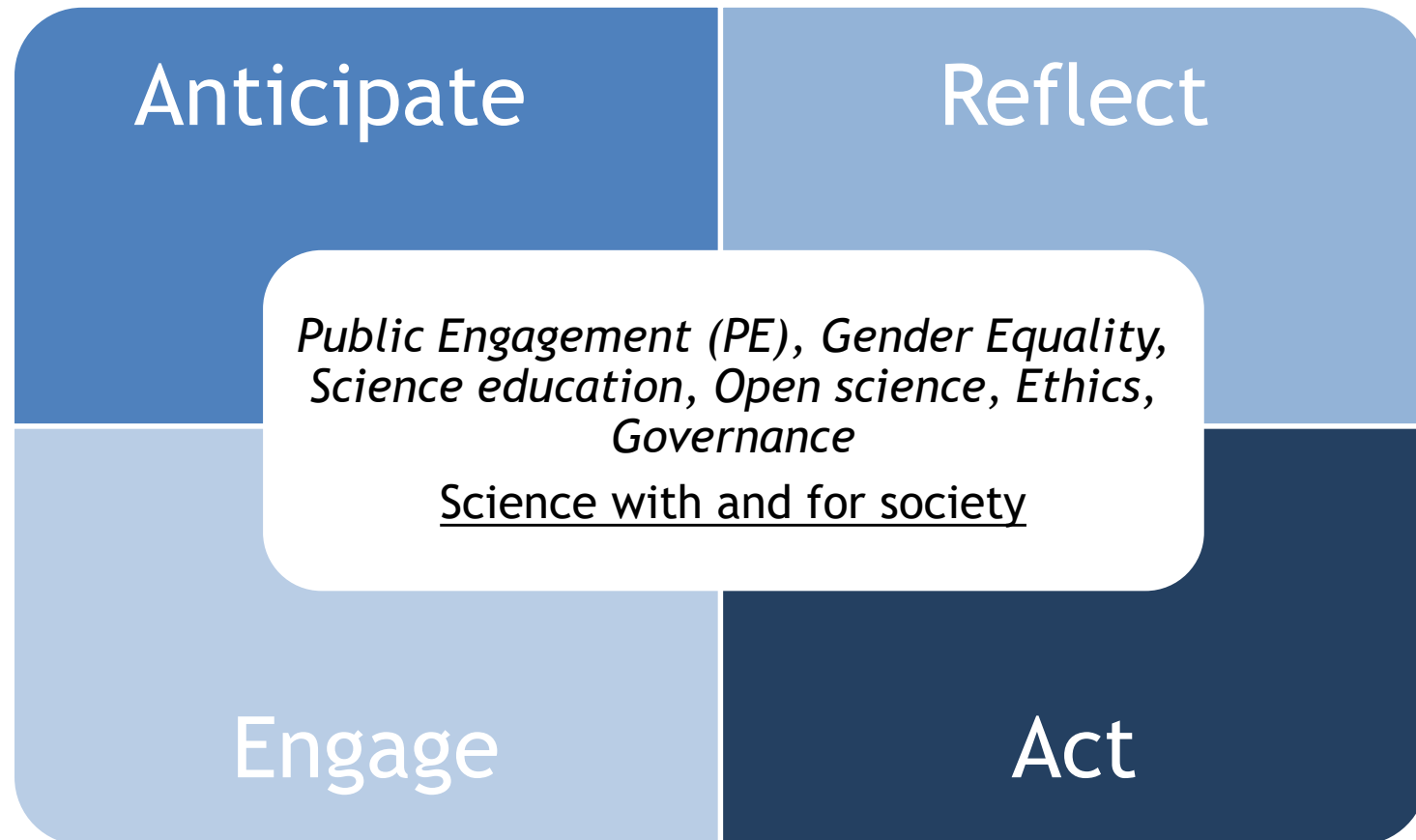


# Ethical and Social Questions in the HBP

- Research ethics and compliance
  - Animal research
  - Human research
- Data-related
  - Data protection
  - Responsible data governance
- Neuroethics
  - Consciousness
- Dual use, misuse
- Diversity and inclusion
- Commercial exploitation
- Societal consequences
- Licence to operate



# Responsible Research and Innovation in the HBP



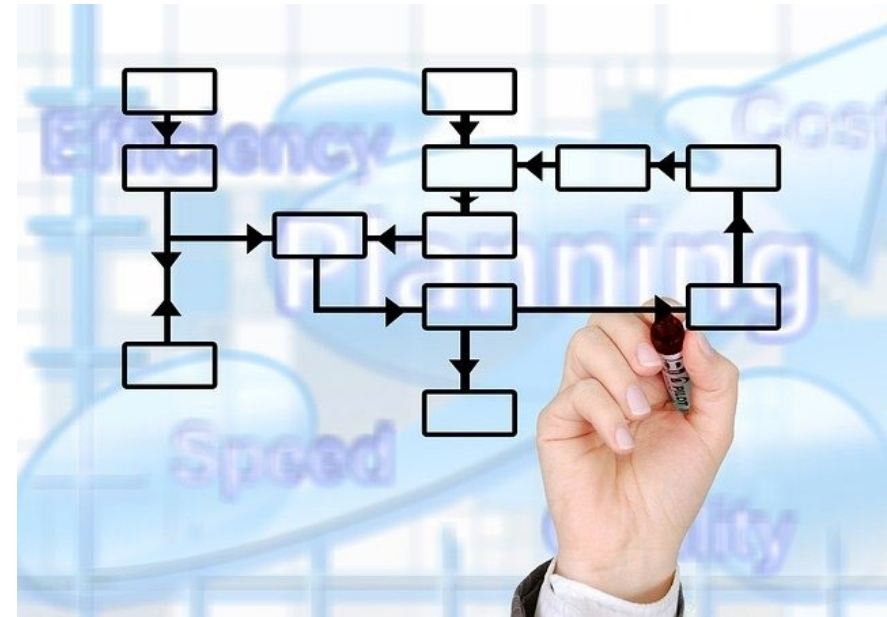
# RRI Activities

- Research on various RRI topics
- Neuroethics and philosophical reflection
- Foresight
- Public engagement
- Researcher awareness
- Ethics support
- Capacity development

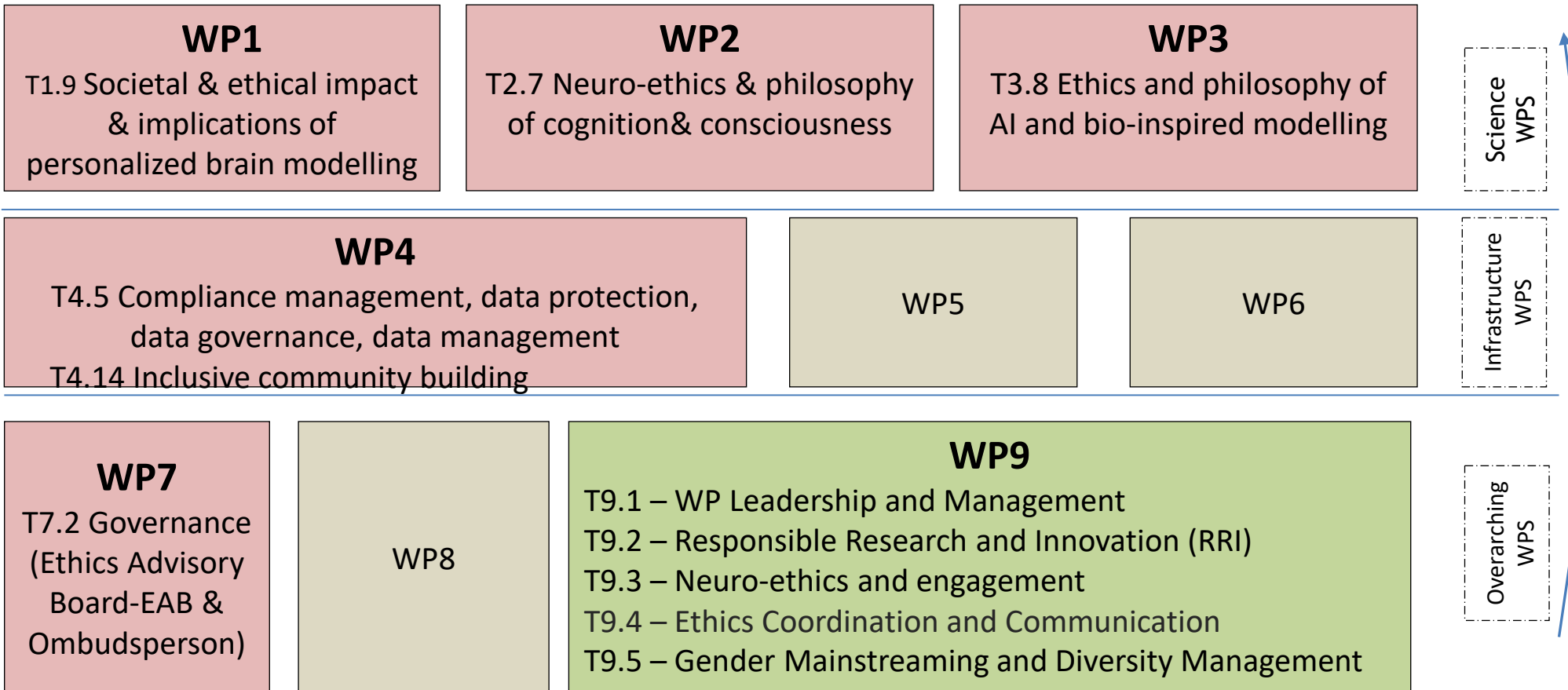


# RRI Structures

- Ethics Advisory Board (external experts)
- Ombudsperson
- Ethics Rapporteur Programme
  - Annual update (1-pager)
- Compliance management workflow
- Data Governance Working Group
- Dual Use Working Group
- Diversity and Equal Opportunities Committee
- Representation in project governance
  - Ethics Director
  - RRI WP lead in Science and Infrastructure Board



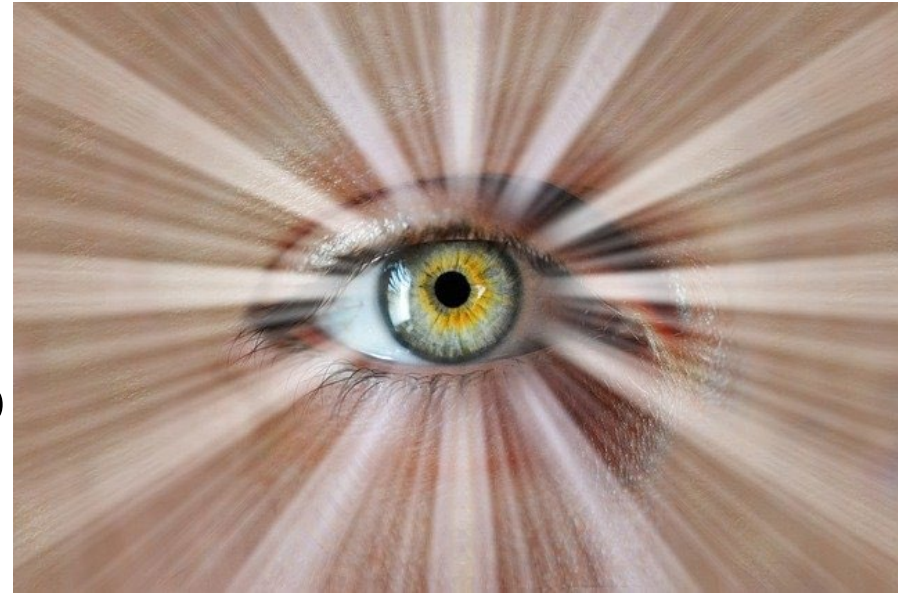
# Structure of Ethics-related Tasks in SGA3





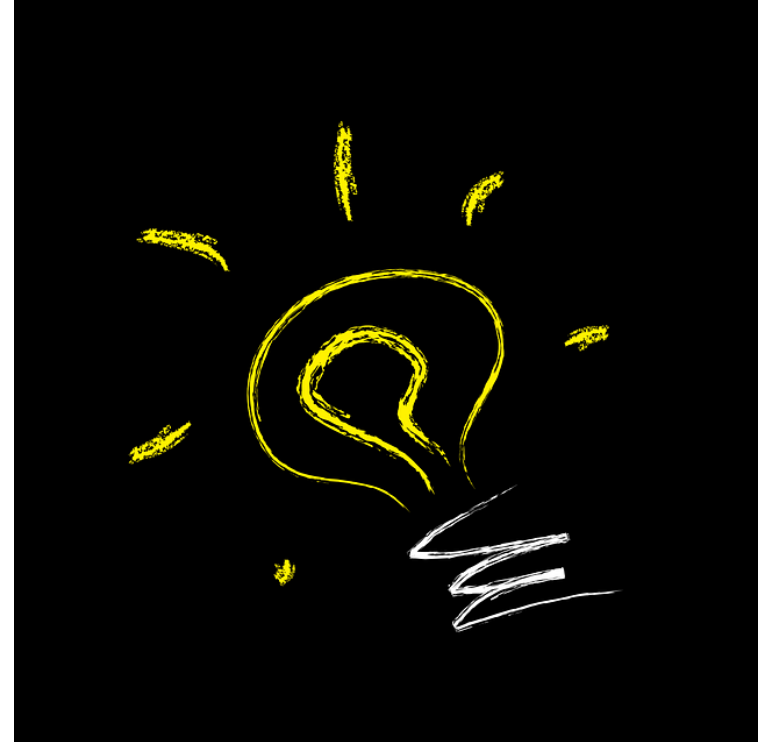
# Lessons Learned (2013-2020)

- Extensive Public Engagement Can Inform Project Decisions
- In Practice Compliance Issues Tend to Dominate the RRI Agenda
- Interdisciplinary Collaboration is Challenging when Implementing RRI
- Interpretations of RRI Continue to be Subject of Debate
- Implementing RRI Reveals Gaps in Knowledge of Substantive Issues
- Success of RRI Implementation is Difficult to Prove



# Some further insights

- RRI remains a contested concept
- Expectation management is important
- Uncertainty and conflict remain
- RRI is not a solution, but a process
- RRI needs to co-evolve with the science



# Future Plans (2021-2023): Responsibility by Design

Preparation for the transition from research project to distributed research infrastructure

- Organisational Integration of RRI
- Community and Capacity Building
- From Research to Innovation and Commercial Exploitation
- Global RRI Engagement and ensuring societal benefit



# Resources

- HBP website  
<https://www.humanbrainproject.eu/en/social-ethical-reflective/>
- HBP education  
<https://www.humanbrainproject.eu/en/education/participatecollaborate/curriculum/online-course/research-ethics-societal-impact/>
- EBRAINS data governance  
<https://ebrains.eu/terms>
- Ethics Dialogues  
<http://www.ethicsdialogues.eu/>