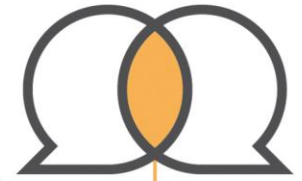




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# Barriers to Third Sector Organisations: TSO and other stakeholder perspectives on engagement

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# » Case Study Research



- » Aim: to identify and understand the barriers and incentives to doing societal engagement in research and innovation
- » Method: interviews with stakeholders from 9 case studies (3 from each domain of nanotechnology, synthetic biology, and food & health)
- » Selection Criteria:
  - societal engagement initiative involving TSOs and/or the public/2-way
  - took place between 2011 and the present
  - entirely publicly funded, or a recipient of public-private funding
  - different formats of societal engagement represented across cases
  - whether the topic was interesting
  - geographic spread (beyond Germany or UK)
  - RRI framework was explicit or implicit

Domain	Project	Geographic scope	Objectives
Food & Health (e.g. food security, human nutrition, sustainable food production)	A healthy future for the potato	Netherlands: Rathenau Instituut, Wageningen University, and University of Groningen (funded by NWO - RRI programme)	<ul style="list-style-type: none"> <li>• Explores the possible social implications of new developments in potato breeding through hybrid seeds</li> <li>• <u>Explicit RRI</u></li> </ul>
	Well Now (obesity intervention)	Dr Lucy Aphramor/NHS Highland (Scotland)	<ul style="list-style-type: none"> <li>• Social justice approach to weight management</li> <li>• <u>Implicit RRI</u></li> </ul>
	EPINET In-vitro meat	International project funded to engage TSOs and other sectors the ethical issues of R&I. In-vitro meat – stem-cell technology	<ul style="list-style-type: none"> <li>• Addresses the societal and funding challenges of in-vitro (cultured) meat</li> <li>• <u>Implicit RRI</u></li> </ul>

Domain	Project	Geographic scope	Objectives
Nano-technology (science and engineering at a nano-scale)	BMU NanoDialog, Nano-Kommission	Germany: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety	<ul style="list-style-type: none"> <li>• Supports the exchanges between TSOs and researchers about the risks and challenges of nanotechnology</li> <li>• Promotes its responsible use</li> <li>• <u>Implicit RRI</u></li> </ul>
	NanOpinion	International (EU-funded, FP7, 11 partners)	<ul style="list-style-type: none"> <li>• Foster public communication and dialogue about nanotechnologies in the EU</li> <li>• <u>Implicit RRI</u></li> </ul>
	Tracing Nano for Down-stream Users/ Nanocap	The Netherlands (initially – funded by the Dutch Ministry for Infrastructure and Environment), then Europe-wide	<ul style="list-style-type: none"> <li>• To improve the traceability of manufactured nano materials in products and articles and establish a regulatory framework</li> <li>• To establish a communication between TSO/other stakeholders and EC</li> <li>• <u>Explicit RRI</u></li> </ul>

Domain	Project	Geographic scope	Objectives
Synthetic biology – design and construction of new biological parts	Ecover/ Solazyme	International	<ul style="list-style-type: none"> <li>Algal oil introduced to replace palm oil in cleaning products and stakeholder engagement carried out to mitigate TSO/consumer backlash</li> <li><u>Implicit RRI</u></li> </ul>
	SYNERGENE	International (EU-funded, FP7)	<ul style="list-style-type: none"> <li>Aims to initiate and foster RRI engagement on synthbio</li> <li>Engagement activities with the TSOs, organised by researchers</li> <li><u>Explicit RRI</u></li> </ul>
	Synthetic Biology Leadership Council (SBLC)	UK/Synthetic Biology Leadership Council (SBLC)	<ul style="list-style-type: none"> <li>A council which provides advice and guidance to government based on the principles of RRI</li> <li>They regularly ensure engagement of a range of stakeholders</li> </ul>

# » Stakeholder Interviews



Stakeholder Category	Nanotechnology			Bioeconomy			Food & Health			Totals
	Nan-Opinion	Tracing Nano/ NanoCap	BMU Nano-Dialog	Ecover/ Solazyme	SBLC Govern- ance Group	SYNER- GENE	Well Now	EPINET – In-Vitro Meat	Healthy Future for the Potato	
Third Sector Organisation (TSO)	1	4	1	4	1	2	1	1	1	16
Fourth Sector Organisation (FSO)	3						1	1		5
Policy			1		1		12		1	15
Research Funder				1			2			3
Academic	1	1			1	3	1	4	4	15
Industry			1	1	1				3	6
Total interviewees by case study	5	5	3	6	4	5	17	6	9	60
Total Interviews by research domain	13			15			32			60

## » Barrier 1: Lack of Resources

There is a lack of resources to enable researchers to engage with TSOs and other stakeholder groups, and a lack of resources for TSOs to engage with researchers.



## » Barrier 2: Perception of Others



Both researchers and TSOs hold preconceived ideas about particular stakeholder groups that make them reluctant to engage with those groups.



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## » Barrier 3: Worldview & Outcomes

Different and often conflicting worldviews held by TSOs and other stakeholders can lead to incompatible ideas about possible solutions to societal challenges.



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## » Barrier 4: Organisational Culture

The organisational cultures of TSOs, research funders, and research institutions can limit which projects they want to become involved in, and how they want to engage with others or be engaged with.

## » Barrier 5: Momentum for Change & Values System



The values system that drives innovation processes is overwhelmingly focused on economics and wealth-creation.

# » Central Challenges by Research Domain

Food & Health	Nanotechnology	Synthetic Biology
Lack of resources	Lack of resources	Lack of resources
Preconceived ideas about other groups	Preconceived ideas about other groups	Preconceived ideas about other groups
Worldview	Anticipated Outcomes	Worldview
Organisational Culture	Perception of Topic/Framing	Organisational Culture
Momentum for Change	Values System	Values System

# PROMOTING SOCIETAL ENGAGEMENT IN RESEARCH AND INNOVATION



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## » PROSO PARTNERS



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