



Living Knowledge
The International Science Shop Network

SHARING EXPERIENCES OF COMMUNITY UNIVERSITY ENGAGEMENT IN EDUCATION AND RESEARCH

Science Shops PERARES and RRI Tools

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Launch of the 5th GUNi Report

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Bonn Science Shop

Living Knowledge Network

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www.livingknowledge.org



- Established 1984
- About 50 members
- Non-profit-association
- non-university based
- Budget ca. 3 Mio EUR
- No external funds
- Demand driven and creating own fields of work
- Partner in various EU funded projects: e.g. „PERARES“ and „RRI Tools“
- Professional staff of 35 in flat, collective structure



Science Shops



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are organizations created as mediators between citizen groups

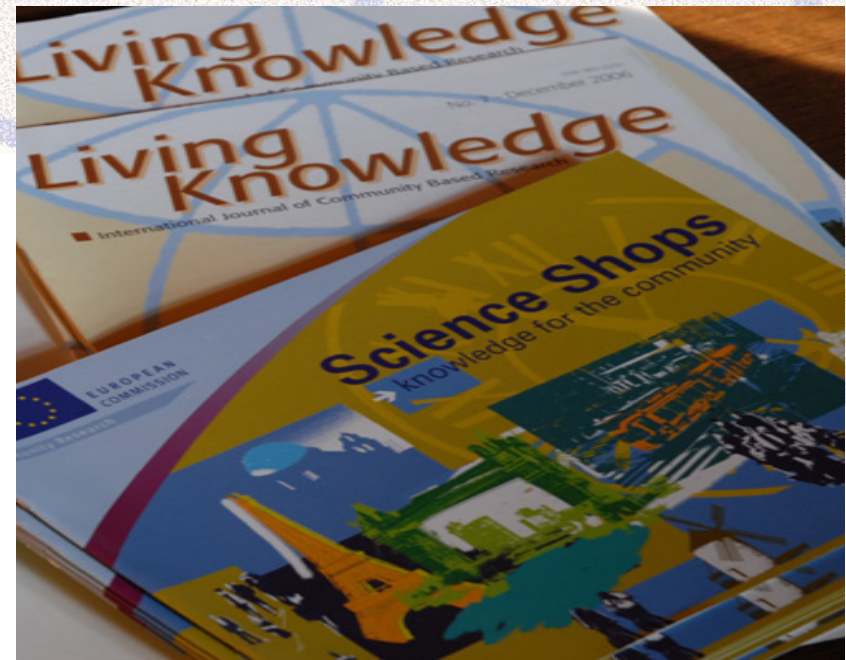
e.g. trade unions, non-profit organizations, environmentalists, consumers etc.)

and research institutions

e.g. universities, independent research facilities

They are just one type of interface between science and its researchers and society.

How they are organized and operate is highly dependent on their context.



Definition

A Science Shop (is a unit that) provides independent participatory research support in response to concerns expressed by civil society.

Science Shops in Europe (Samples)



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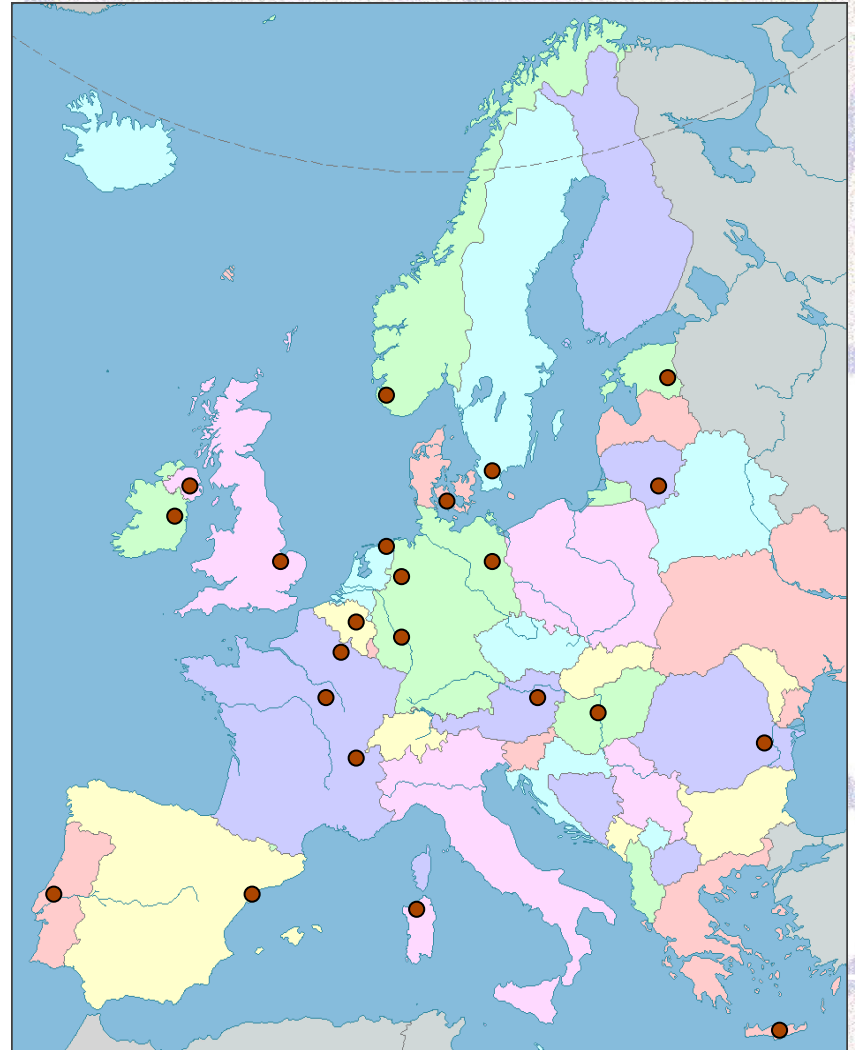
University Based

Groningen, the Netherlands
Belfast, Northern Ireland
Dublin, Ireland
Lyon, France
Sassari, Italy
Vechta, Germany
Stavanger, Norway
Copenhagen, Denmark
Bucharest, Romania

...

Non University Based

Bonn, Germany
Vienna, Austria
Paris, France
Gödöllő, Hungary



Stakeholders

Research

Result

Science Shops

- Demand driven
- No commercial interest
- Publication of results
- Feedback to science institutions

Problems or Requests

Civil Society Organisations

Science Shops – How do they work?



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1. Map the problem (articulation)
2. Receive/solicit clients and (new) questions
3. Preliminary research: Refer, Refuse, Advice or Formulate (scientific) research question (and funds if required)

4. Find a (co-) supervisor

5. Find a student or researcher

6. Maintain communication and process
7. Facilitate useable presentation/publication of results
8. Help client implement results and formulate follow up actions
9. Make inventory of follow-up research/themes
10. Evaluation

- Enhanced learning for students
- Case materials / networking for researchers
- PR and social responsibility for institute
- Policy: Informed decisions
- Empowered CSOs



When establishing a HEI based Science Shop consider how it will connect to *all* existing policies and strategies.

Science Shops meet the needs of HEIs, curriculum development, student skills and employability, research impact, science communication, and societal needs in a cost effective way.

CITY OF ASSEN: STREET LIGHTING IN NATURAL AREA

Social Safety

Energy saving

Does not disturb nature

ECOLOGY DEPARTMENT

NGO “BATS WORKING GROUP”

Green coloured LED lights

GREEN LIGHT FOR BATS!

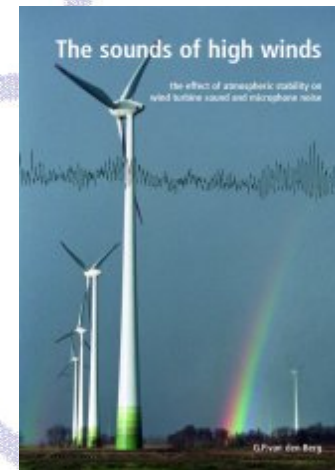
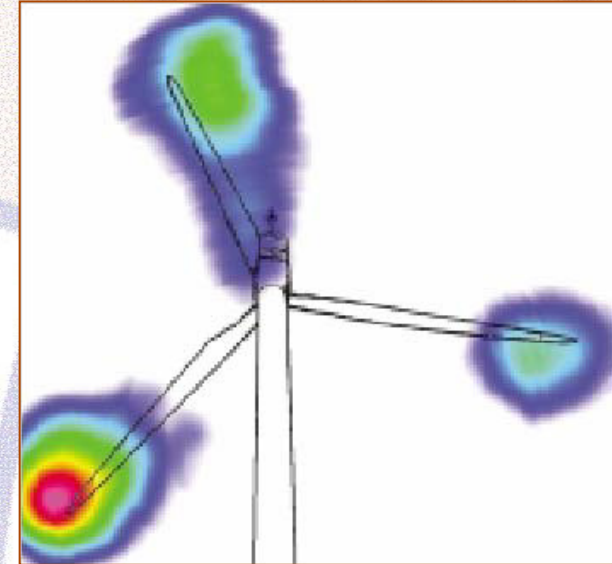


Science Shop Physics

- *Wind Turbines –
Noise at night (Residents)*
→ **PhD**



$$L_W = L_{eq} - 6 + 10 \cdot \log(4\pi \cdot R^2 / A_0)$$





PERARES

Public engagement with research
and research engagement with society



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The PERARES Project

developed and performed by (and for) Science Shops, Universities and CSOs

- Bring together 25 Science Shops, Civil Society Organisations (CSOs) and Universities from 16 European countries
- Advance the engagement of Civil Society Organisations in setting Research Agendas - from single individual projects to larger programs
 - Set up 10 new Science Shops across Europe to do projects with/for CSOs (UK, IRE, F, ITA, GRE, CYP, EST, IL, NOR)
 - Pilot forms of scenario workshops with researchers and CSOs
 - Implement direct co-operation among researchers and CSOs.
 - Study and experiment advancements in doing, evaluating and promoting engaged research and learning; e.g. in curricula / Higher Education and Research Funding (and related policies)



Example: Transnational Online Debate

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Articulating research questions through a discussion among CSOs, researchers, policy-makers and other stakeholders

Bringing the local to the international

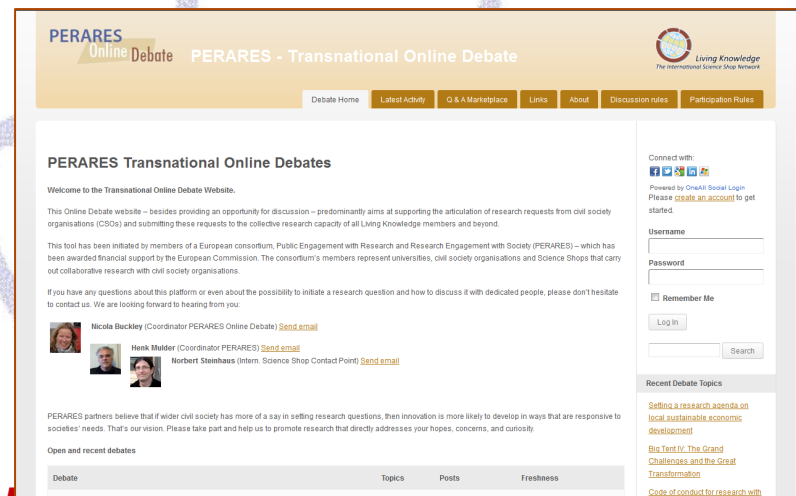
Open to all and make debates accessible for further dissemination;

Show how dialogues can lead to real follow up

Submitting articulated requests to the collective research capacity of all Living Knowledge members and beyond, and to research funders.

Make dialogues more than just talk

→ Research requests fed back into research agendas.



→ www.livingknowledge.org/discussion/debate



Topic: Domestic Violence Research



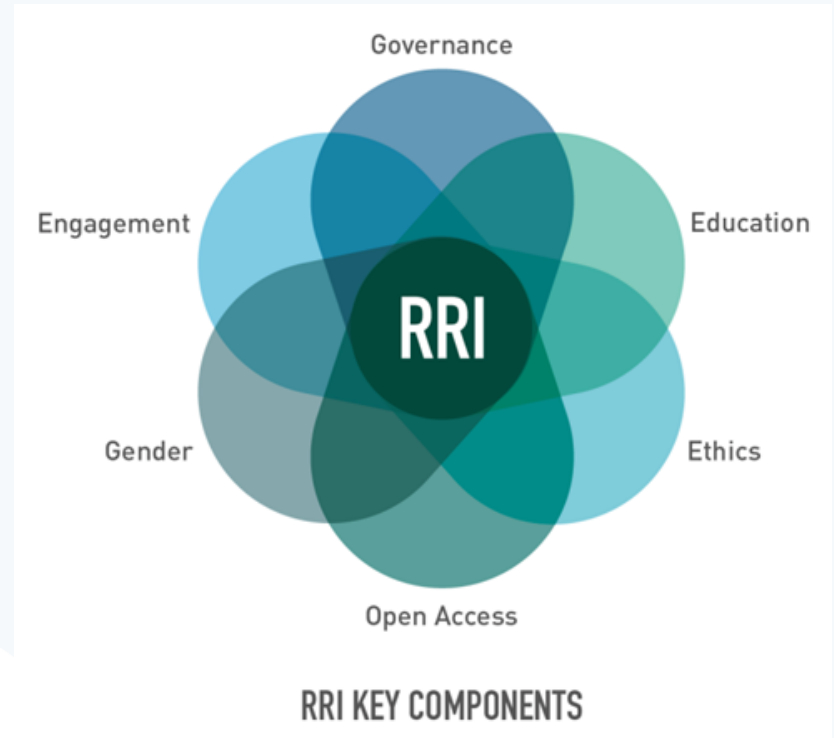
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- **Prior** to online discussion, set up **collaborative international student research** with universities and CSOs as partners in Cambridge, UK; Stavanger, Norway and Brussels, Belgium, with Master's students studying health care practitioners' identification and response to domestic violence during pregnancy
- Then **online discussion** to look at research questions for new student research relating to domestic violence, promoted for 4 weeks to CSOs, contacts of university members etc
- **Pre-moderation of comments and questions**, work package group took part in discussion and responded to comments and questions
- **Questions identified** to form basis of new student projects

- **26 questions**, comments during the month from CSO representatives, members of public, researchers
- Group members engaging with discussion to suggest useful links, prior research etc.
- **Selection of potential research questions** for new student projects, listed at www.livingknowledge.org/discussion/debate/questions-requests/
- **Student research project 2012-13**: The Impact of the Economic Downturn on Experiences of Domestic Violence in Cambridgeshire, with Cambridge Women's Aid and other CSOs, www.livingknowledge.org/discussion/debate/ticket/impact-recession-domestic-violence/

Responsible Research and Innovation

*RRI is a transparent, **interactive process**, by which societal actors and innovators become **mutually responsive** to each other with a view to the **(ethical) acceptability, sustainability and societal desirability** of the innovation process and its marketable products (in order to allow a proper embedding of scientific and technological advances in our society)*



RRI DIMENSIONS: Inclusion, Meaningful Openness, Diversity, Anticipation, Reflexivity

RRI Tools

EU 7th Framework Program project

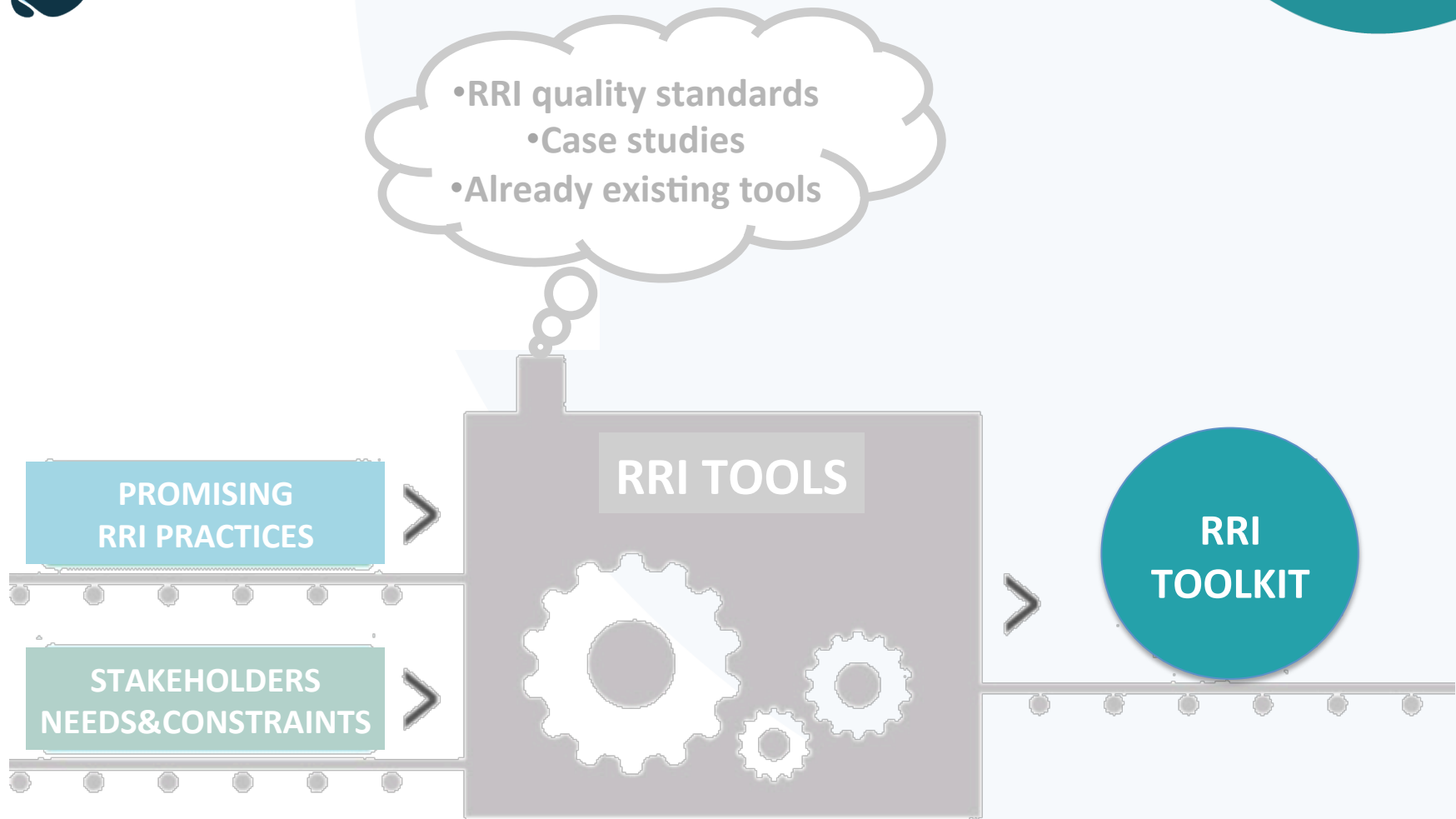
26 partners

19 Hubs covering 30 countries

Main goal & outcome: develop a
*Training and Dissemination Toolkit on
Responsible Research and Innovation (RRI)*

*keystone to foster RRI among all stakeholders
-explicitly referred to in several Horizon2020 calls-*





Science Shops and RRI

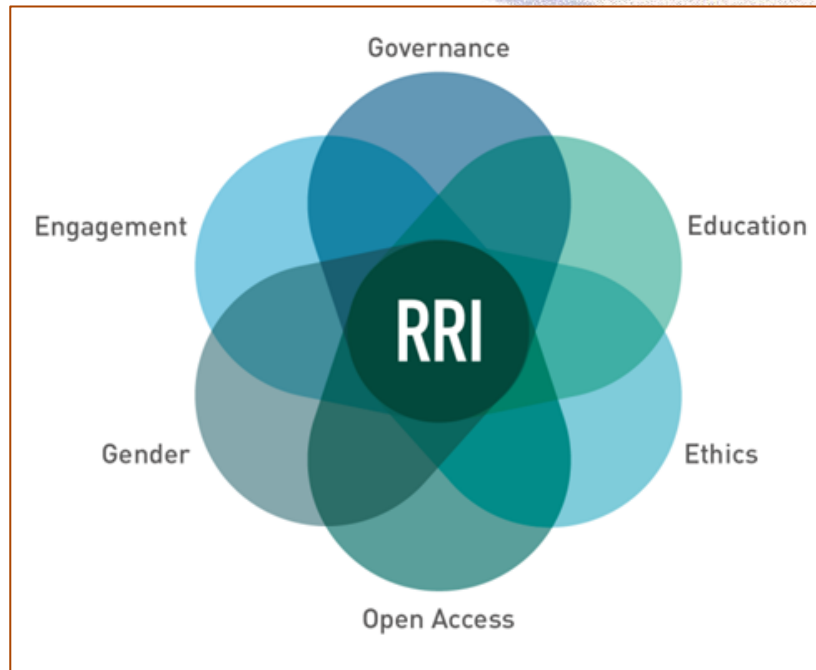


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Science Shops ,live'
Engagement with
and for Society

Science Shops are
responsive

Science Shops
anticipate with
meaningful openness



Science Shops
contribute to
education

Science Shops
results are free
accessible

**Science Shops
are a
,best practice' to
Responsible
Research &
Innovation**

Thank you for your attention



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International Science Shop Network 'Living Knowledge'

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RRI Tools

www.rri-tools.eu