

Welcome to the Interactive Course on

Science Communication for Societal Impact

14-17 September, 2021



NETWORK FOR
ADVANCING & EVALUATING THE SOCIETAL IMPACT OF SCIENCE



DAY 1



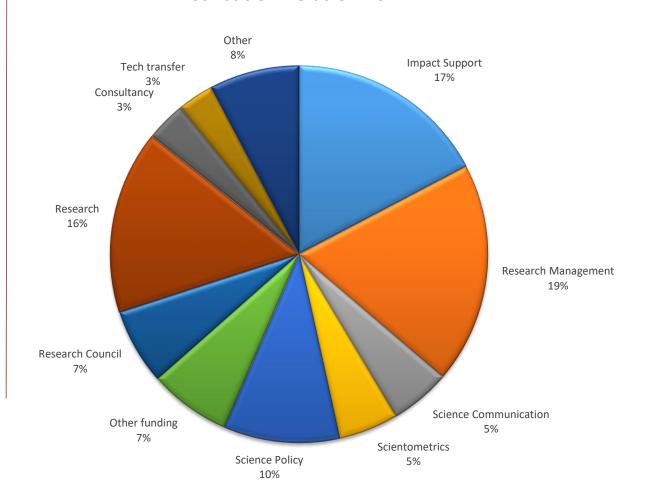
AESIS



OVERVIEW OF AESIS

AESIS was founded in 2015 with the aim of creating an international, open community for various types of professionals working on stimulating and demonstrating the impact of science on economy, culture and well-being.

Distribution fields of work

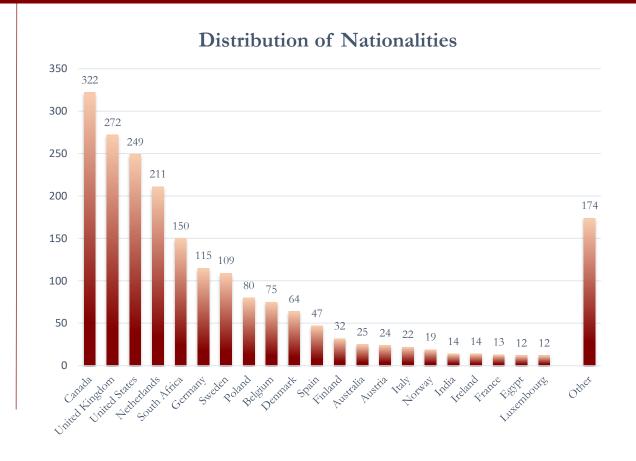






OVERVIEW OF AESIS

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AESIS

• Facilitators •

• KTO's •

• Management •

Universities

(and other Research institutions)

• Researchers •

• Administrators •

• Scientometricians •

• Evaluators •

Knowledge Transfer & Business development

ta lae te

for Policy

Knowledge Exchange & Dissemination

Industry

• Startup's •

• Funding agencies •

Research Councils

• Businesses •

• Policy makers •

Government

• Science policy makers •

Societal organisations

• Media •

Citizens

Consumers

Investors



THE TEAM

Anika Duut van Goor – Director

Bonita Liu – Lead Project Manager

Emma den Ouden – Office & Conference Manager

Yeşim Tırpan- Project Manager

Caterina Tognoni – Project Manager





ZOOM

AESIS

#SCICOM21



OVERVIEW OF THE COURSE



Tuesday 14th September

Public Engagement with Science -Paul Manners Interdisciplinary Engagement- Lizzie Crouch Introduction to Course Assignment

Wednesday 15th September

Fostering Engagement with Society- Anna Maria Fleetwood & Cissi Askwall Best Practice Case-Study- Zehra Waheed Measuring and Demonstrating Outputs- Eric A. Jensen

Thursday 16th September

Building Connections Through Communication- Dariusz Aksamit Best Practice Case-Study- Fai Collins Dzernyuy Policy Engagement- Emily Jesper-Mir & Hamid Khan

Friday 17th May

Social Media & Impact- Ger Hanley







OVERVIEW OF DAY 1 PROGRAMME



Introductions

Public Engagements with Science Paul Manners

Interdisciplinary Engagement Lizzie Crouch





Getting to know each other...

- •Where do you stand in the science eco-system?
- •Why are you here and what would you like to take away?
 - •Why is the topic of this course important (to you)?

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Paul Manners

Director of Policy, National Co-ordinating Centre for Public Engagement (NCCPE), United Kingdom

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Science communication & public engagement: pathways to societal impact

Paul Manners

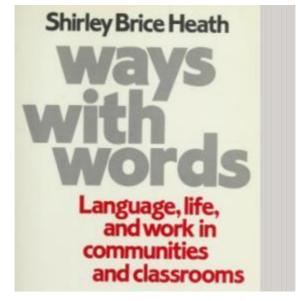
Director, National Coordinating Centre for Public Engagement, UK

Introduction

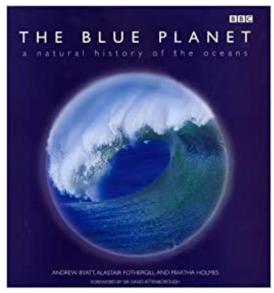










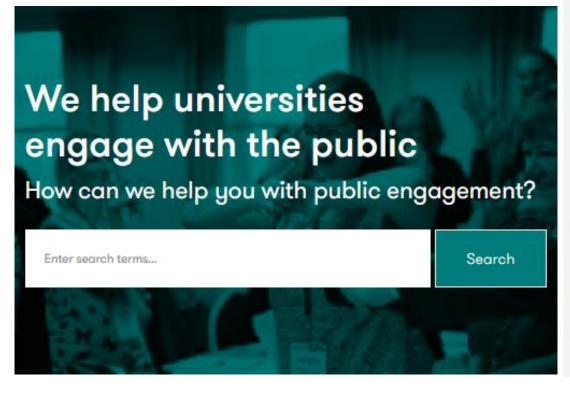


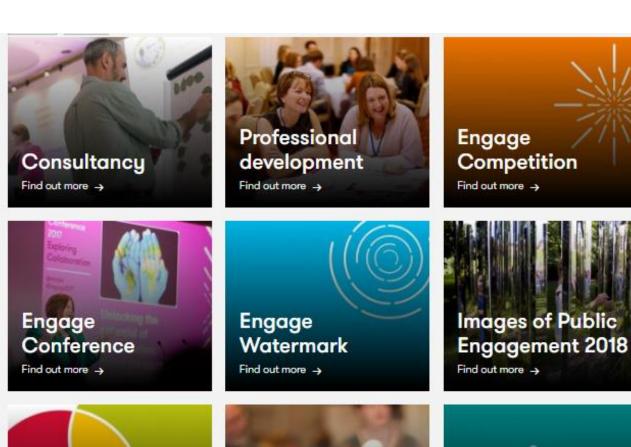


National Co-ordinating Centre for Public Engagement















publicengagement.ac.uk

1. Context



3. Change



2. Craft



4. Capability



History context



Why is it important to engage with the public?





Secretive and untrustworthy



Irrelevant and out of touch with society



Unaccountable and a waste of tax payers' money

Elitist and reinforcing inequality

(1985)

The Public Understanding of Science

Dr W.F. Bodmer, F.R.S.

Report of a Royal Society

ad hoc Group endorsed

by the Council of the Royal Society



(1985)

The Public Understanding of Science

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Science and technology play a major role in most aspects of our daily lives both at home and at work.

Scientists must learn to communicate with the public, be willing to do so, and indeed consider it their duty to do so. [] The Royal Society should make improving public understanding of science one of its major activities.





(2000)



Select Committee on Science & technology

THIRD REPORT



(2000)



Public confidence in scientific advice to Government has been rocked by BSE; and many people are uneasy about the rapid advance of areas such as biotechnology and IT.



(2000)





Public confidence in scientific advice to Government has been rocked by BSE; and many people are uneasy about the rapid advance of areas such as biotechnology and IT.

The crisis of trust has produced a new mood for dialogue. In addition to seeking to improve public understanding of their work, scientists are beginning to understand its impact on society and on public opinion. Direct dialogue with the public should move from being an optional add-on to science-based policy-making and to the activities of research organisations and learned institutions, and should become a normal and integral part of the process.

Why Academics are Becoming Irrelevant (and How to Stop it)



Pointless research: top 10 Ig Nobel award winners for silly science

As the government prepares to crack down on 'irrelevant' research, we look at some of the things we'll be losing, courtesy of the Ig Nobel awards.

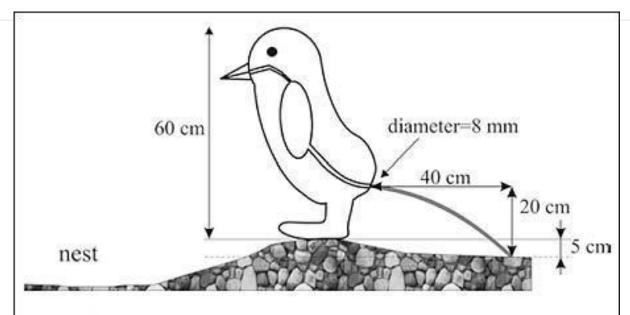


Fig. 1 Position of model penguin during defaecation and physical parameters used to calculate rectal pressure necessary to expel faecal material over a distance of 40 cm

Research funding plan should be abandoned, say academics

A petition bearing 18000 signatures calling for the abandonment of economic impact assessment has been delivered to the government



Thousands of academics and researchers have signed the petition

(2009)

Research funding plan should be abandoned, say academics

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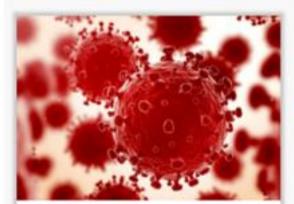
Thousands of academics and researchers have signed the petition



"For the purposes of the REF, impact is defined as an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia"







epidemic, and its control

What is coronavirus? The different types of coronaviruses



Disinfecting surfaces for coronavirus: Does it reduce infection?



Coronavirus seasonality: Is the spread likely to vary?

7 Jul 2020

The Telegraph

LINK

♠ > News > Global Health Security > Science & Disease

Trust in scientists is eroding and we need to get it back. Transparency is more important than ever



KATHERINE MATHIESON





UK scientists must not be blamed for giving advice, says Royal Society head

Exclusive: intervention comes after minister appeared to scapegoat scientists over Covid-19 errors



If the science was wrong, advice at the time was wrong, I'm not surprised if people will then think we then made a wrong decision,' said Therese Coffey. Photograph: Hannah McKay/Reuters.

The Independent Scientific Advisory Group for Emergencies (SAGE)

The Independent SAGE Report

COVID-19: what are the options for the UK?

Recommendations for government based on an open and transparent examination of the scientific evidence

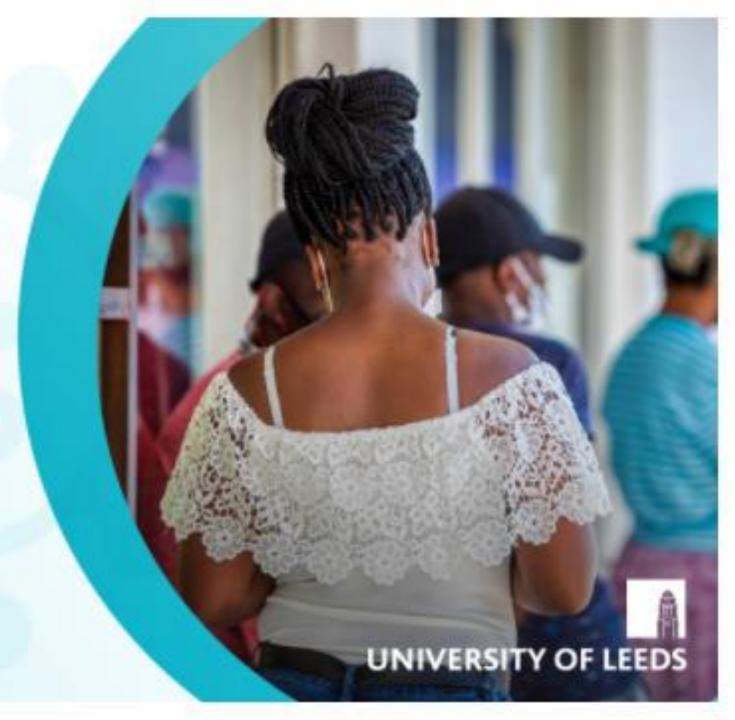


Protecting and improving the nation's health

Beyond the data: Understanding the impact of COVID-19 on BAME groups

COVID-19 and Health Inequality

8th December 2020

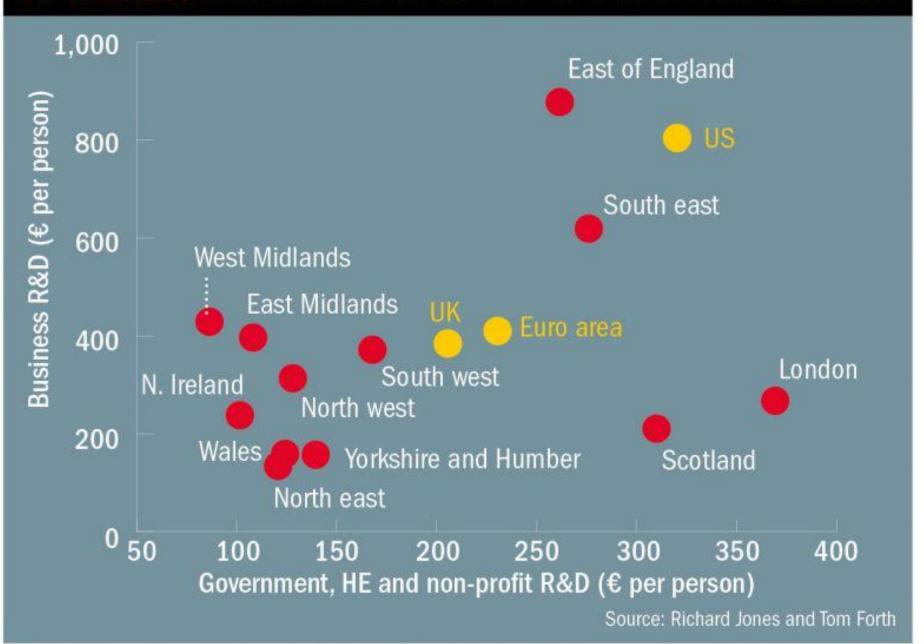






E4 BILLON TO LEVEL UP REGIONAL INFRASTRUCTURE

SO SKEWED: COMPARISON OF UK REGIONS' RESEARCH FUNDING





12 Key Themes from the Townhalls





Unstable contracts & careers



Poor management



Bullying &

harassment

Deteriorating mental health



6.
Long hours

culture













Gender inequality & personal sacrifices

"A kinder research culture will build stronger, deeper support for research."

nature

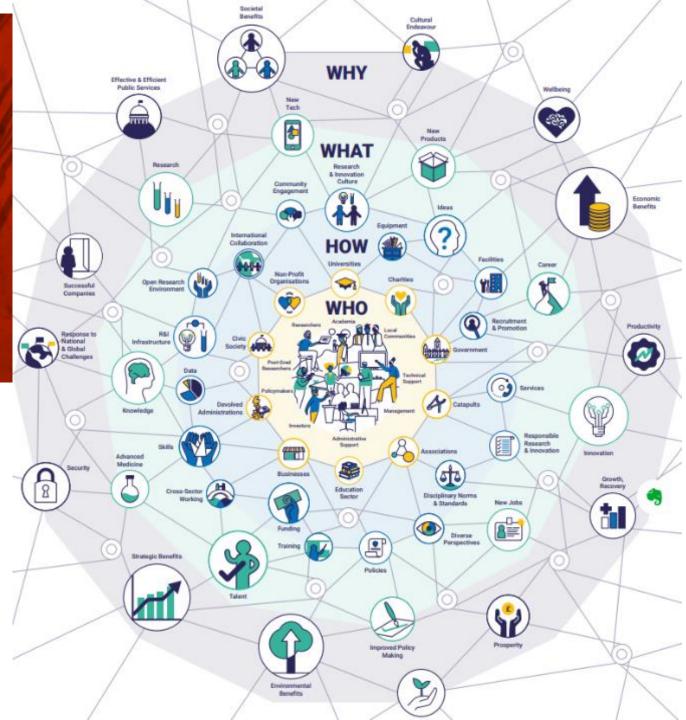
"A mean and aggressive research working culture threatens the public's respect for scientists and their expertise"



"We must break down the barriers between research and innovation and wider society. We must engage widely to build shared understanding between those who consider themselves to be part of the research and innovation system and those who do not. We must co-create the opportunities that research and innovation offers to enrich lives locally, nationally and globally"

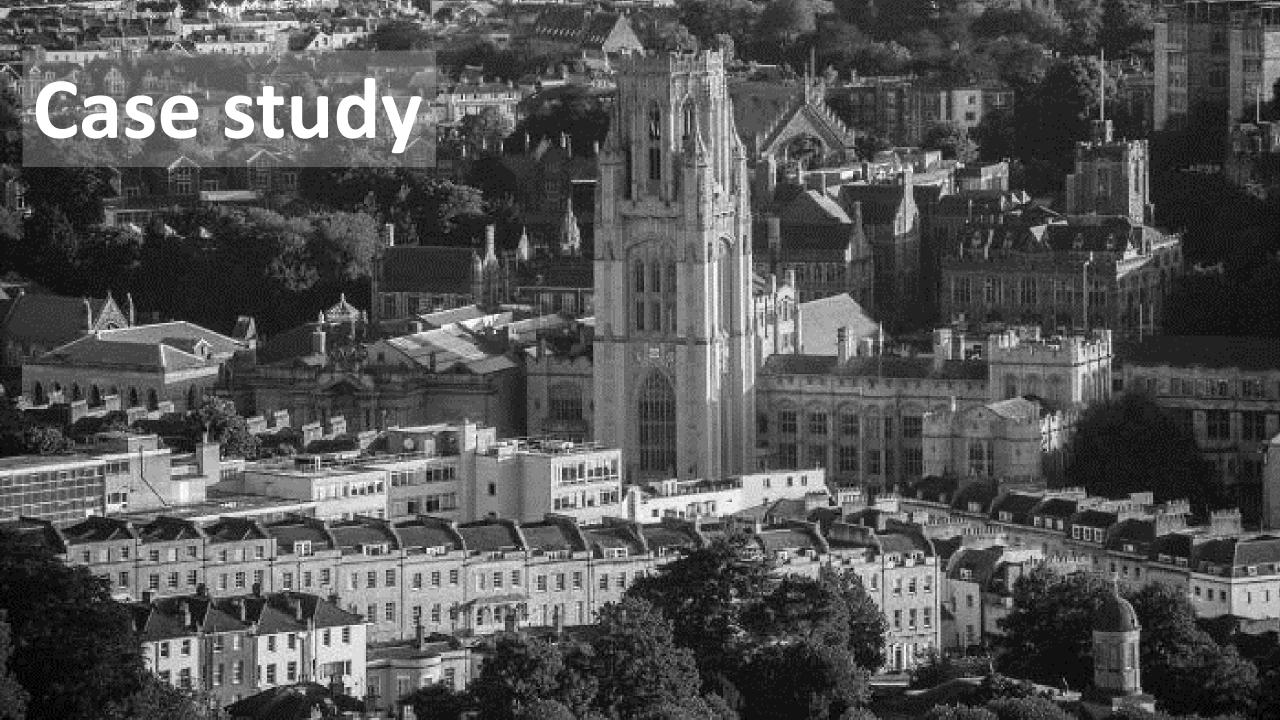


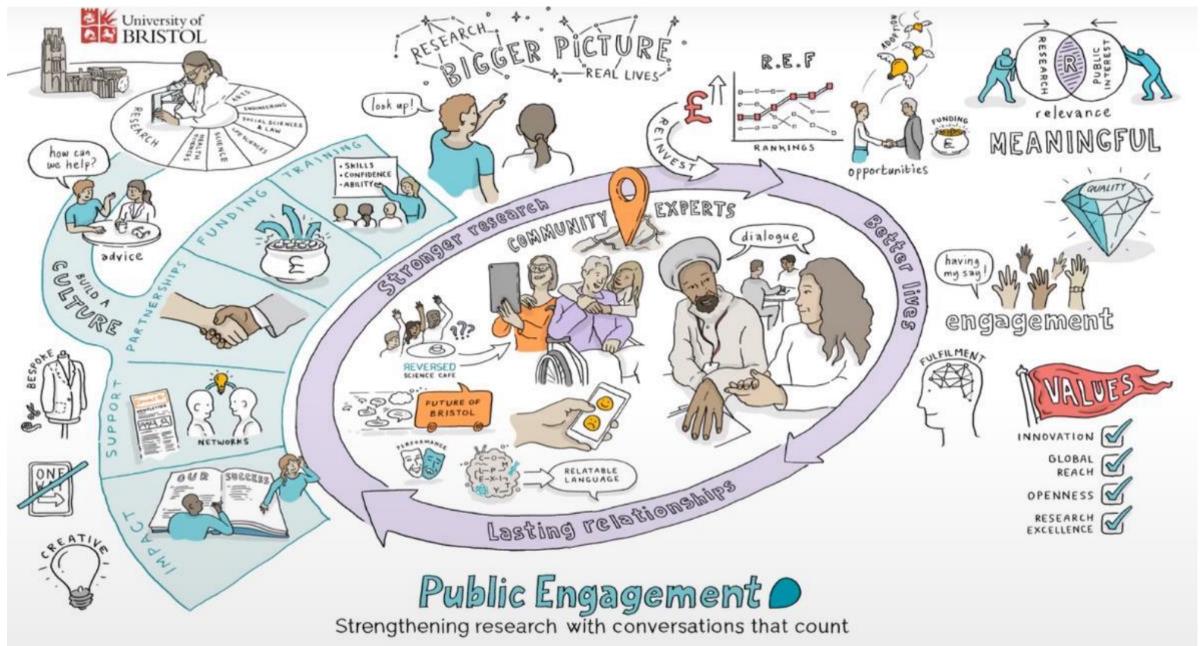
Ottoline Leyser, CEO





- Do these motivations for engagement resonate with you, and apply in your context?
- How is science funding and policy changing in response to these kinds of social pressures?





2. The craft of public engagement





THE ENGAGED UNIVERSITY

A Manifesto for Public Engagement



What is public engagement?

Public engagement describes the myriad of ways in which the activity and benefits of higher education and research can be shared with the public. Engagement is by definition a two-way process, involving interaction and listening, with the goal of generating mutual benefit."









Reasons to engage...

INSPIRING

Inspiring, involving and informing the public about research

CONSULTING

Actively listening to the public's views, concerns and insights

Working in partnership to solve problems, drawing on each other's expertise

COLLABORATING







CIVIL SOCIETY & THIRD SECTOR

Charities & associations; societies and clubs



POLICY

Policy makers, regulators, civil servants



Professionals and practitioners



BUSINESS

Companies, SMEs, entrepreneurs







CIVIL SOCIETY & THIRD SECTOR

Charities & associations; societies and clubs



POLICY

Policy makers, regulators, civil servants

PUBLIC SECTOR

Professionals and practitioners



BUSINESS

Companies, SMEs, entrepreneurs



PUBLICS

communities of place & interest



CIVIL SOCIETY & THIRD SECTOR

Charities & associations; societies and clubs

voter



POLICY

Policy makers, regulators, civil servants

PUBLIC SECTOR

Professionals and practitioners



BUSINESS

Companies, SMEs, entrepreneurs



service user

citizen

PUBLICS



DEMOGRAPHICS:

age, ethnicity, gender, economic status, level of education, income level & employment



communities of place & interest

CIVIL SOCIETY & THIRD SECTOR

Charities & associations; societies and clubs

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service user

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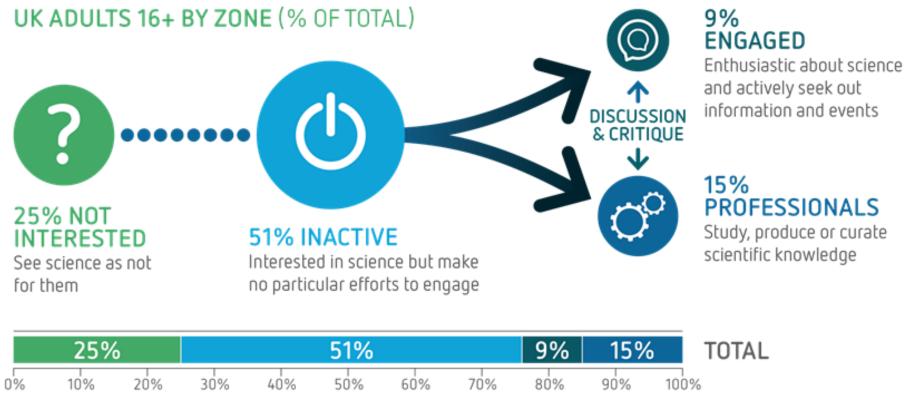
PUBLICS

customer

employee

Our audience model





Source: King's College London 'Culture Tracker' 2016, which questioned a representative sample of UK adults about their relationship with science.

We use the model to help us decide where to focus our time and energy: we prioritise the activities which are most likely to transition people from the 'Not interested' or 'Inactive' groups to the 'Engaged' or 'Professional' groups.

What kinds of outcomes are typically realised by Public and Community Engagement?





Search REF Impact Case Studies

Browse the index below or search all Case Studies using keywords [e.g. "NHS"].

Search all Case Studies...

Search

See all case studies

Learn about advanced search options and read our Terms of Use.

Link

Assessing impact

Engaging publics with research





Reviewing the REF impact case studies and templates Executive summary

www.publicengagement.ac.uk





Stimulating curiosity, understanding and empathy



Typical outcomes include:

- Enhanced knowledge and understanding
- Enhanced enjoyment, inspiration and creativity
- Changes to attitudes and values





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- Enhanced enjoyment, inspiration and creativity
- Changes to attitudes and values

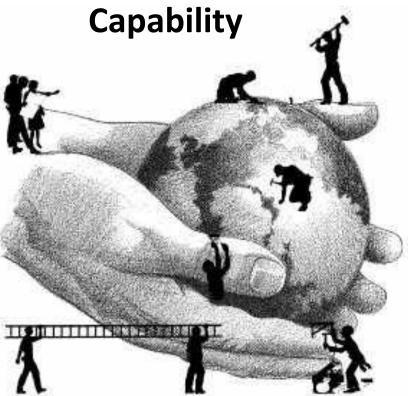


Building capacity and strengthening networks



Typical outcomes include:

- Enhanced knowledge and understanding
- Enhanced enjoyment, inspiration and creativity
- Changes to attitudes and values



- Increased capacity and confidence of participating publics
- Changes to behaviour, attitudes, health and wellbeing and to quality of life
- Strengthened communities and relationships





Innovation



Typical outcomes include:

- Enhanced knowledge and understanding
- Enhanced enjoyment, inspiration and creativity
- Changes to attitudes and values

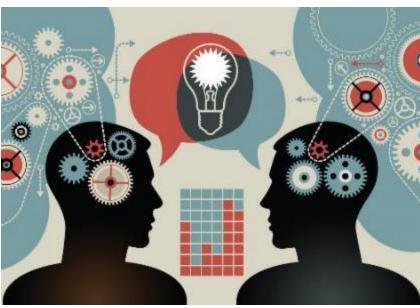
- Increased capacity and confidence of participating publics
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Improving decision making and the way things work





Innovation



Typical outcomes include:

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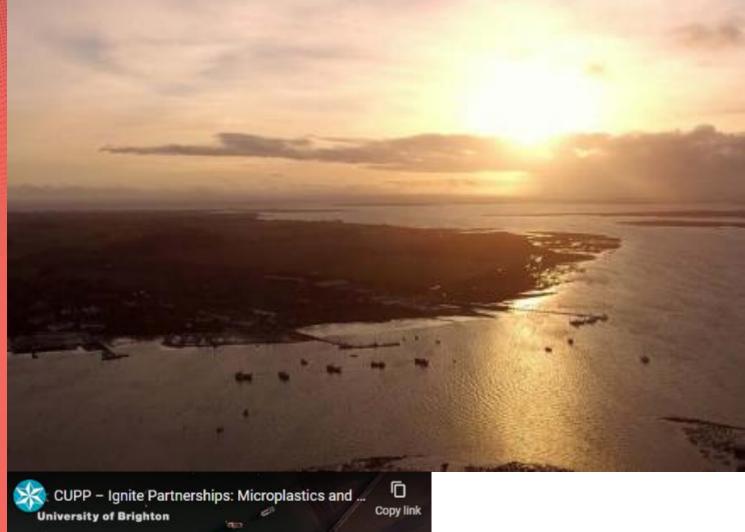
- Demonstrable impact on policies, productivity, public realm
- Economic return and resilience



IGNITE: ONE PROGRAMME, A WEALTH OF INSPIRING STORIES

Finding and fostering community-university partnerships

University of Brighton UKRI report





Link

3. Navigating change



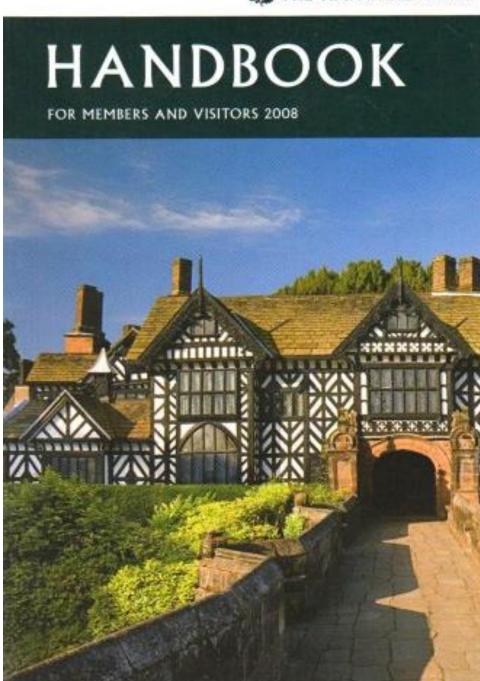


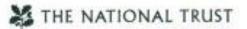




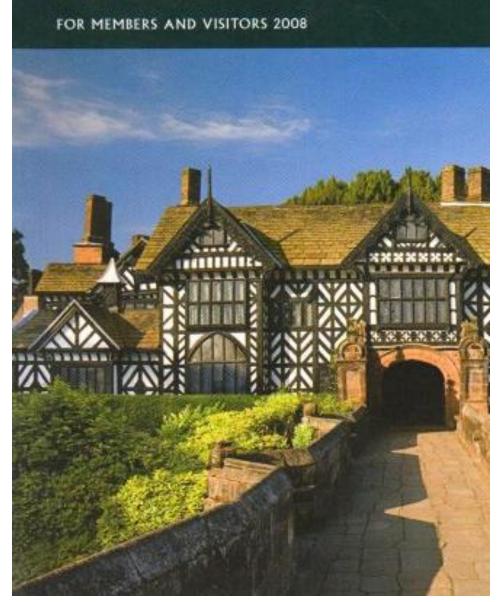


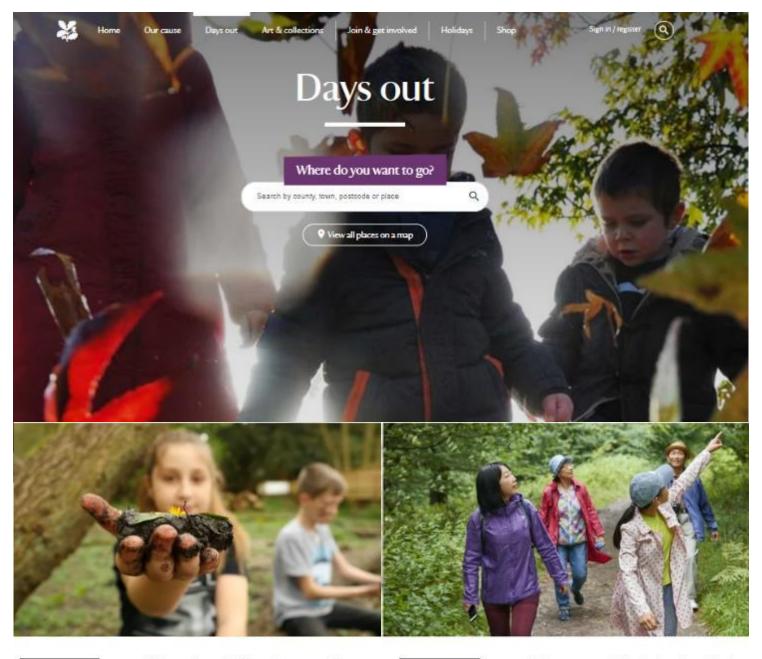






HANDBOOK





For families >

With acres of space for little ones to run around plus family-friendly facilities, you're sure to have a great family day out with us.

Groups >

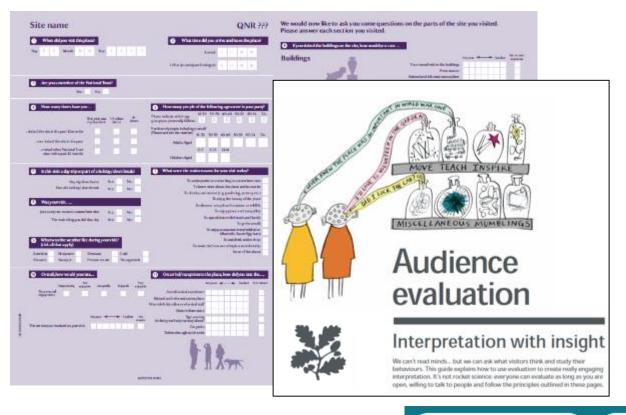
Whatever your group is interested in, we've got lots of inspiration and information for you to plan your visit. 'We need to learn to love people as much as we love places'

Fiona Reynolds, Director General



Curious Minds Live Life to the Full

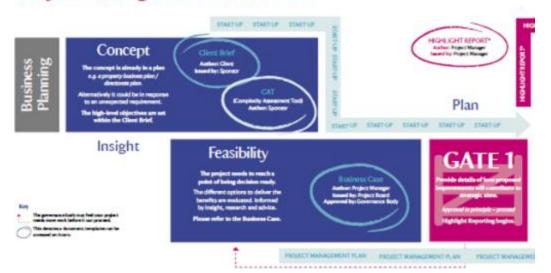








Project Management Framework





Who are we?

Research managers

Knowledge transfer professionals

Marketing and communications

Development

managers

Public affairs

Researcher developers

Public relations

Recruitment managers

Public engagement specialists

Impact specialists

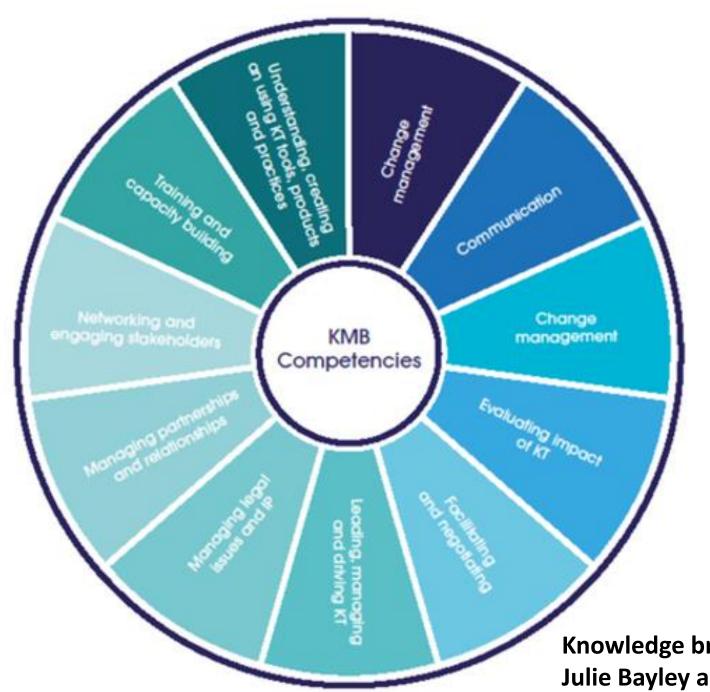
Engaged researchers

Events managers

Alumni relations

Fundraisers

Scholarly communications



What are our skills?

- 1. Change management
- 2. Communication
- 3. Creating, sourcing and synthesising (research)
- 4. Evaluating impact of Knowledge Exchange (KE)
- 5. Facilitating and negotiating
- 6. Leading, managing and driving KE
- 7. Managing legal issues and IP
- 8. Managing partnerships / relationships
- 9. Networking and engaging stakeholders
- 10. Training and capacity building
- 11. Understanding, creating and using KE tools, products and practices

Knowledge broker competencies, Julie Bayley and David Phipps



'Engaged' Attributes

Responsive

- You are motivated by other people's curiosity, interests and needs
- You adapt your communication and approach for different people



- You set explicit goals for your work and monitor these carefully
- You understand how your own values motivate your work



Respectful

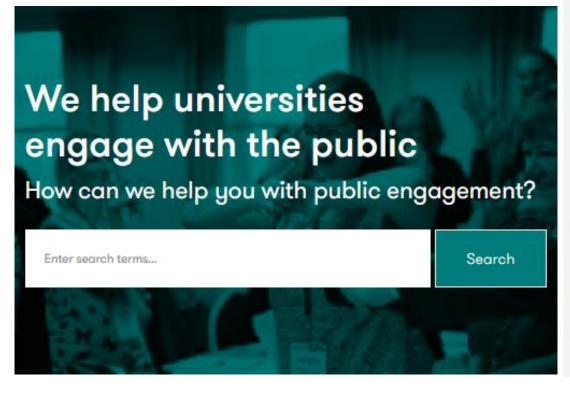
- You are sensitive to issues of diversity and inclusion
- You have the capacity to build and sustain effective partnerships

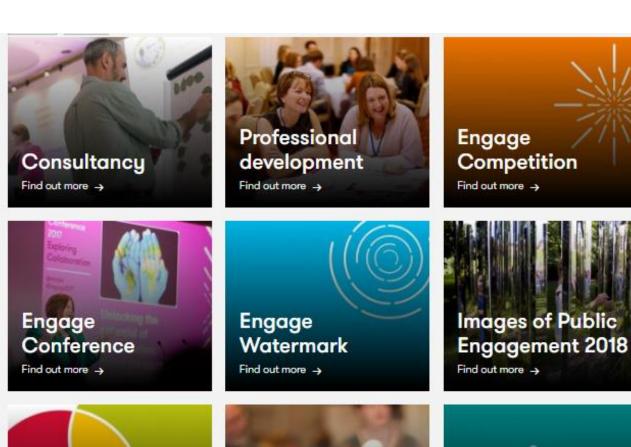
Responsible

- You are sensitive to social and ethical issues and plan your work to take account of these
- You are committed to excellence, quality and innovation















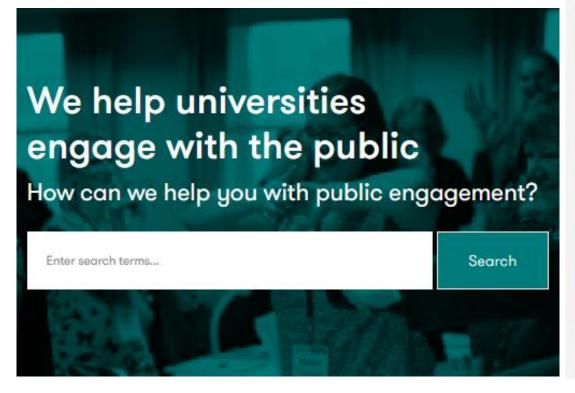
publicengagement.ac.uk

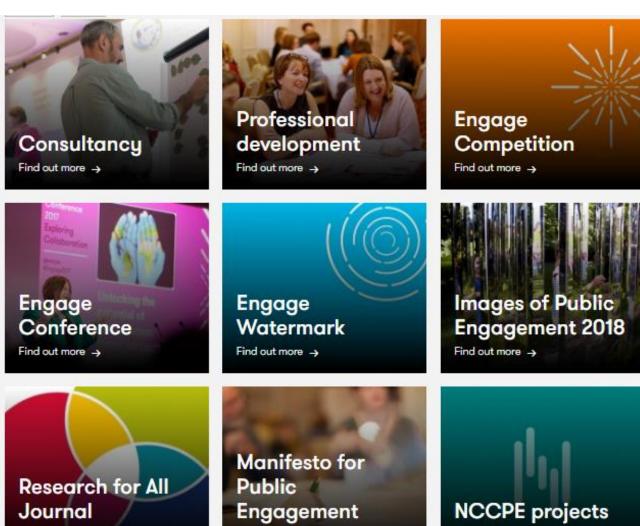
Pathways to societal impact

 What insights has this session given you into the work that you do, the ways that you work, and the challenges that you face?









Find out more ->

Find out more →

Find out more →

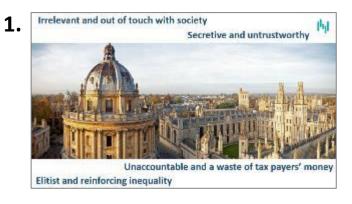
Discussion

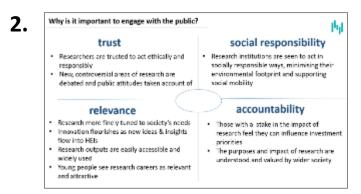


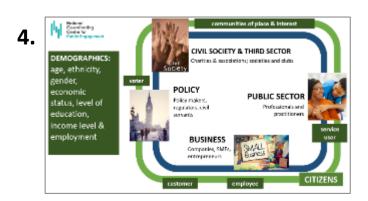
Break

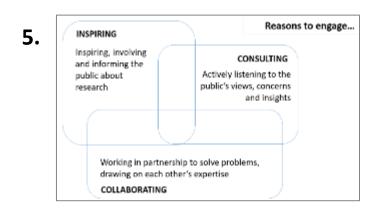
We will be back at 12.00

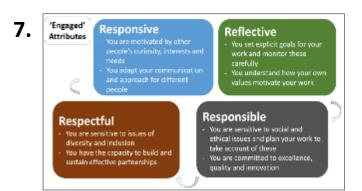
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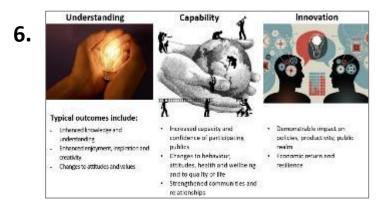






Public Engagement

Starting insects with consequence in a const



https://padlet.com/paulmanners/oag8opm11tptc85d

Secretive and untrustworthy



Irrelevant and out of touch with society



Unaccountable and a waste of tax payers' money

Elitist and reinforcing inequality

Why is it important to engage with the public?



trust

- Researchers are trusted to act ethically and responsibly
- New, controversial areas of research are debated and public attitudes taken account of

social responsibility

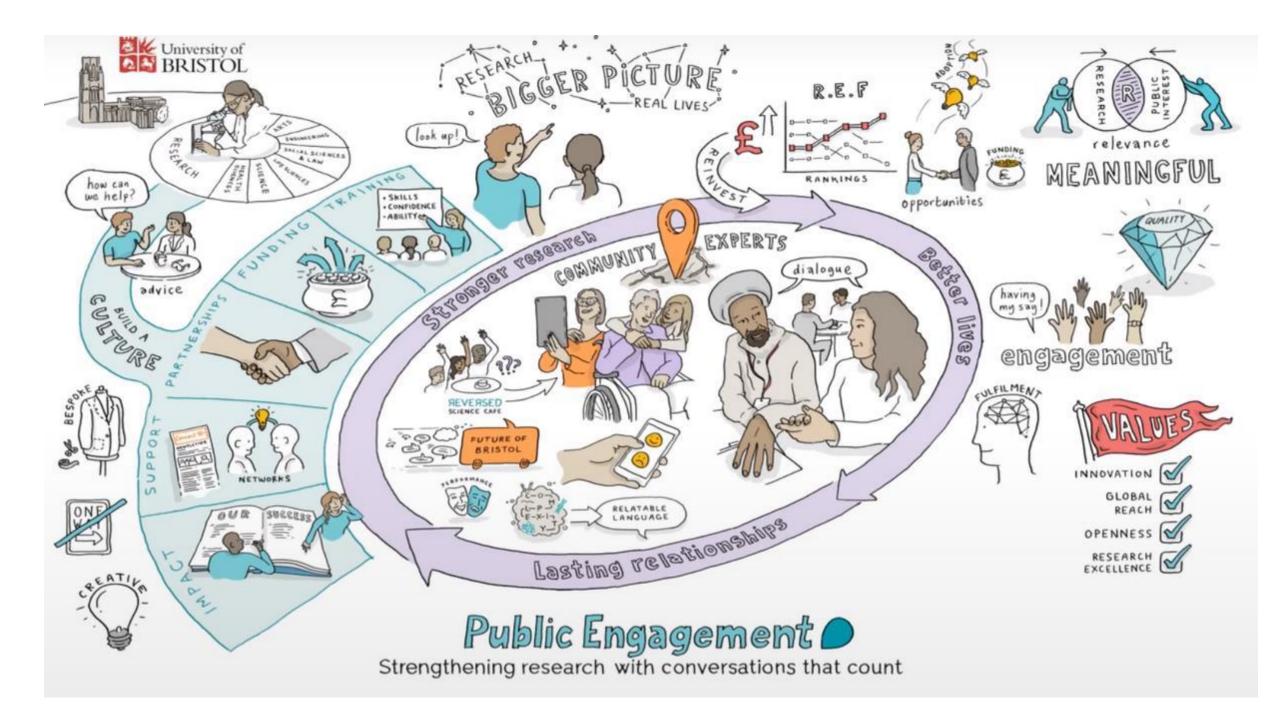
 Research institutions are seen to act in socially responsible ways, minimising their environmental footprint and supporting social mobility

relevance

- Research more finely tuned to society's needs
- Innovation flourishes as new ideas & insights flow into HEIs
- Research outputs are easily accessible and widely used
- Young people see research careers as relevant and attractive

accountability

- Those with a stake in the impact of research feel they can influence investment priorities
- The purposes and impact of research are understood and valued by wider society





DEMOGRAPHICS:

age, ethnicity, gender, economic status, level of education, income level & employment



communities of place & interest

CIVIL SOCIETY & THIRD SECTOR

Charities & associations; societies and clubs

voter

citizen



POLICY

Policy makers, regulators, civil servants

PUBLIC SECTOR

Professionals and practitioners



service user

BUSINESS

Companies, SMEs, entrepreneurs



PUBLICS

customer

employee

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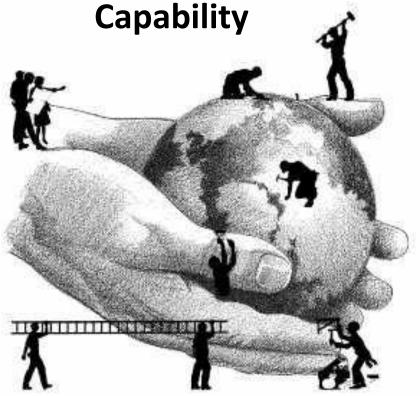
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Working in partnership to solve problems, drawing on each other's expertise

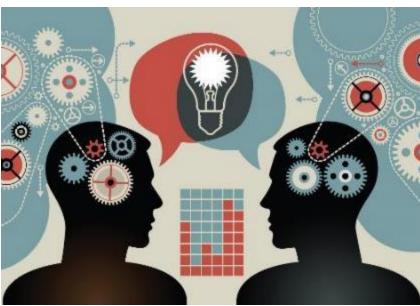
COLLABORATING

Understanding





Innovation



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- Changes to behaviour, attitudes, health and wellbeing and to quality of life
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- Demonstrable impact on policies, productivity, public realm
- Economic return and resilience

What core, strategic functions do we all contribute to?



Social intelligence



Service design



Support

'Engaged' Attributes

Responsive

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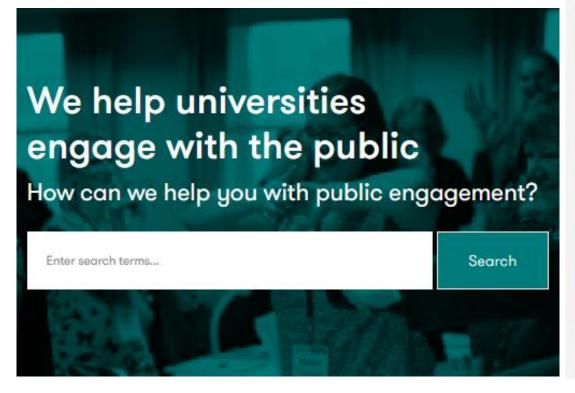
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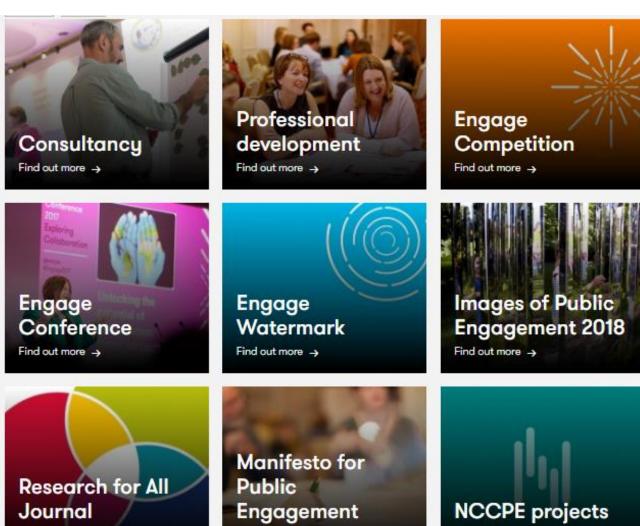
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Find out more ->

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Break

We will be back at 13.20

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Lizzie Crouch

Creative Producer, Australia

AESIS



Break

We will be back at 14:25

AESIS





Introduction to the Course Assignment

AESIS



A proposal to improve the societal impact of your institute by integrating effective science communication methods and tools

Final presentations: September 17, 12.20-14.20 CEST





Elements to consider

- What is the current state of science communication and impact at your institute?
- What is your objective for integrating impact and science communication?
- What elements are missing from the institute's strategy and execution of strategy?
- What are the most important challenges to overcome in order to reach your goals? How would you address them?
- Who do you need to get involved and how?
- What are the priorities and how should resources be divided?
- How will you evaluate success, strengths and weaknesses?

AESIS



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Measuring and Demonstrating Outputs- Eric A. Jensen

Thursday 16th September

Building Connections Through Communication- Dariusz Aksamit Best Practice Case-Study- Fai Collins Dzernyuy Policy Engagement- Emily Jesper-Mir & Hamid Khan

Friday 17th May

Social Media & Impact- Ger Hanley





Q&A and Informal Chat

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End of Day 1

Thank you

AESIS