



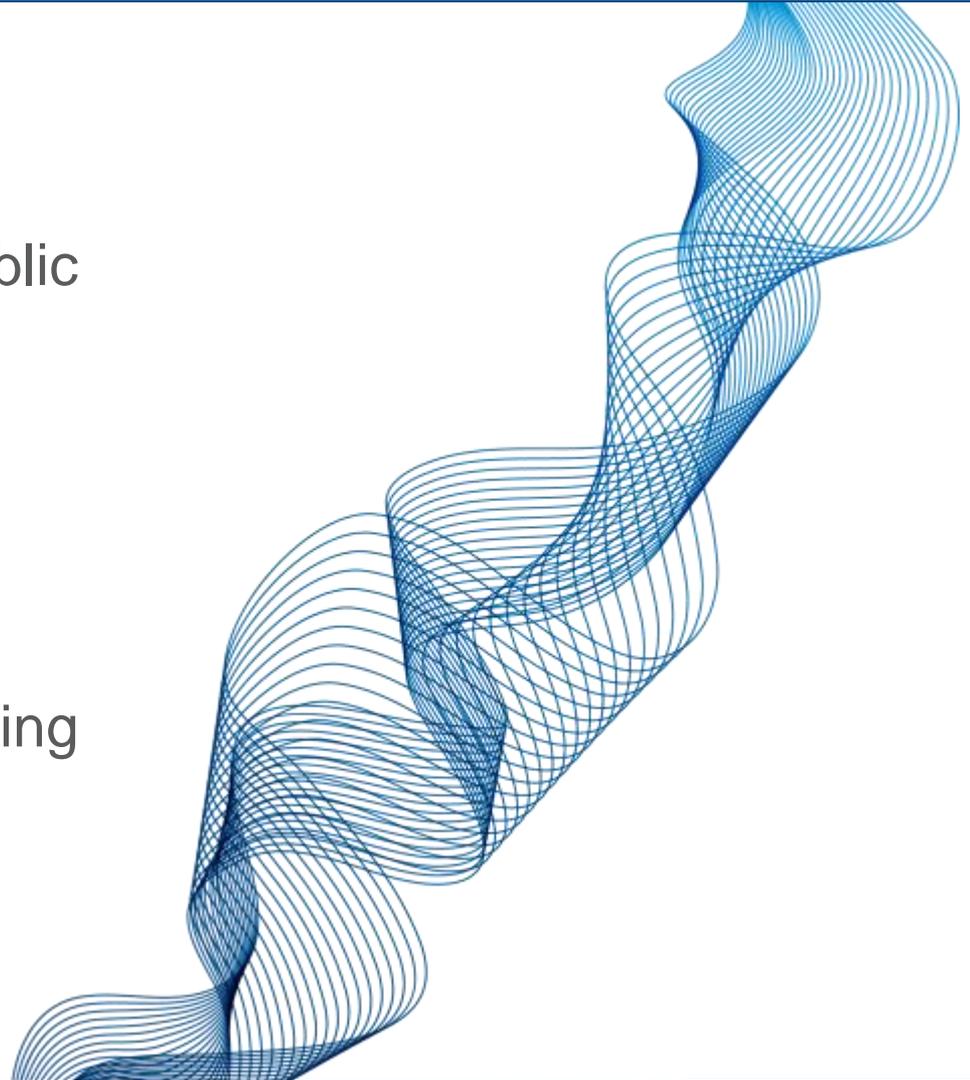
UK approaches to public engagement with nuclear issues

Adrian Bull MBE, Director of External Relations

Reuben Holmes, Plant Chemist and Public Engagement Researcher

University of Manchester, 28th August 2019

- **Recap of lectures 1 and 2**
- Best practice principles for Public Engagement
- What do the public think?
- Current thinking for public consultation and decision making



Changing perception of nuclear/radiation

UK approaches to public engagement with nuclear issues

RADIUM THERAPY

The only scientific apparatus for the preparation of radio-active water in the hospital or in the patient's own home.

This apparatus gives a high and measured dosage of radio-active drinking water for the treatment of gonf, rheumatism, arthritis, neuralgia, sciatica, lumbago, catarrh of the antrum and frontal sinus, arterio-sclerosis, diabetes and glycosuria, and nephritis, as described in Dr. Saubermann's lecture before the Roentgen Society, printed in this number of the "Archives."



DESCRIPTION

The perforated earthenware "activator" in the glass jar contains an insoluble preparation impregnated with radium. It continuously emits radium emanation at a fixed rate, and keeps the water in the jar always charged to a fixed and measurable strength, from 5,000 to 10,000 Machi units per litre per diem.

APPROVED BY
RADIUM LIMITED,
14, NEWINGTON SQUARE, LONDON, W.



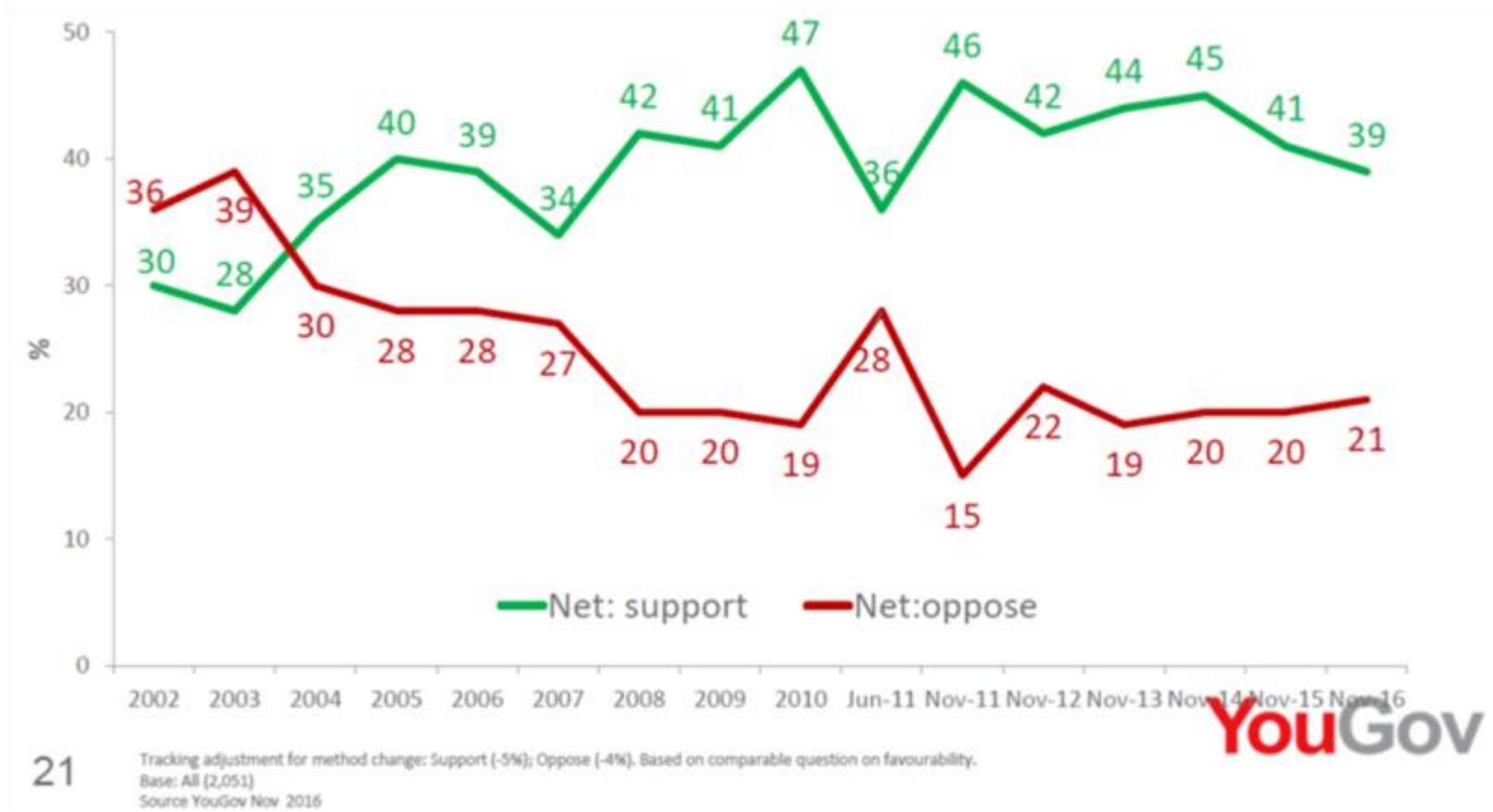
The Observer 30 November 2003



Plutonium from Sellafield in all children's teeth

U-turn in public support

To what extent would you support or oppose the building of new nuclear power stations in Britain to REPLACE those that are being phased out over the next few years? This would ensure the same proportion or nuclear energy is retained (Net: support; Net: oppose)



Just Do It
1950s/60s

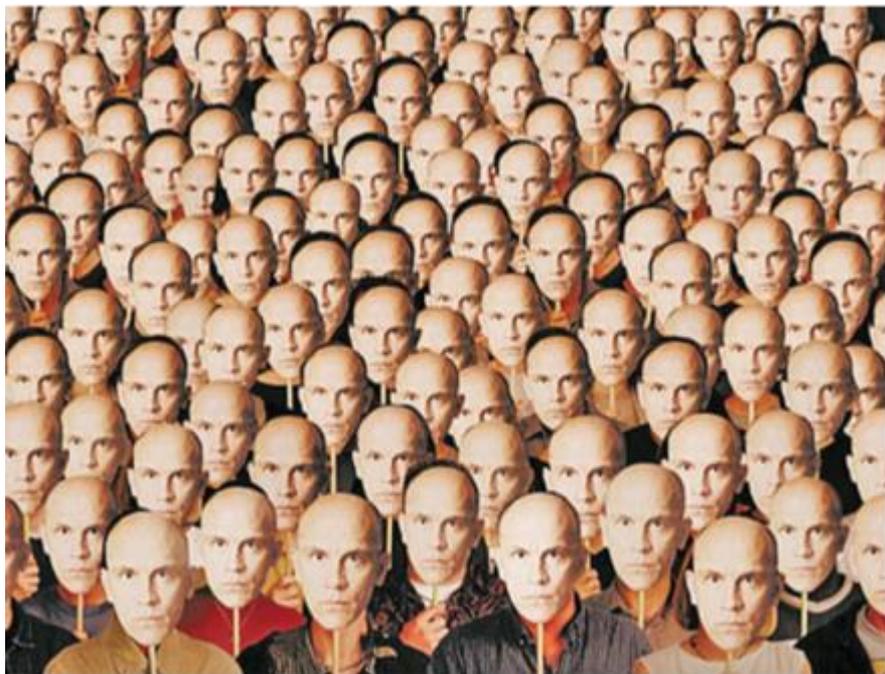
Decide-Announce-Defend (DAD)
1970s/80s

Decide-Announce-Defend-Abandon (DADA)
1980s/90s

Engage-Deliberate-Decide (EDD)
2000s-present

“The Public”

UK approaches to public engagement with nuclear issues

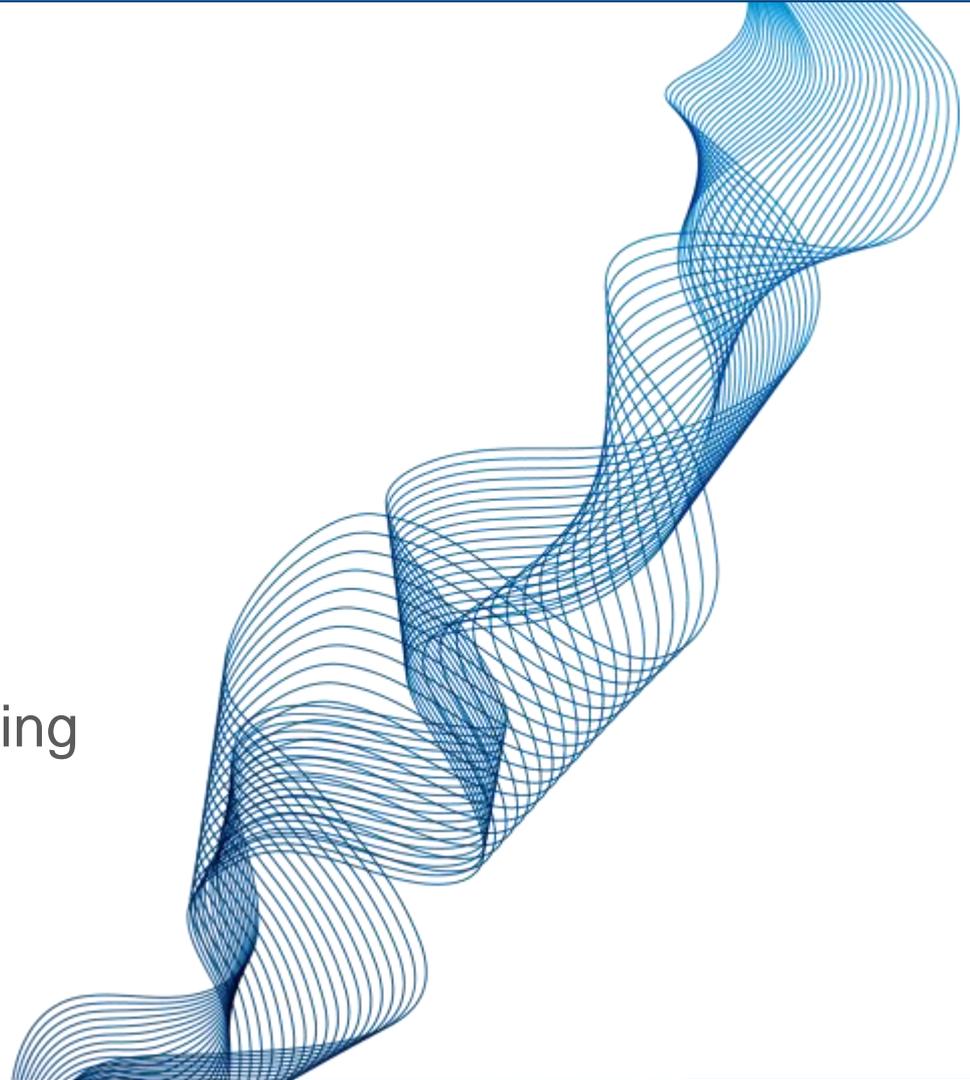


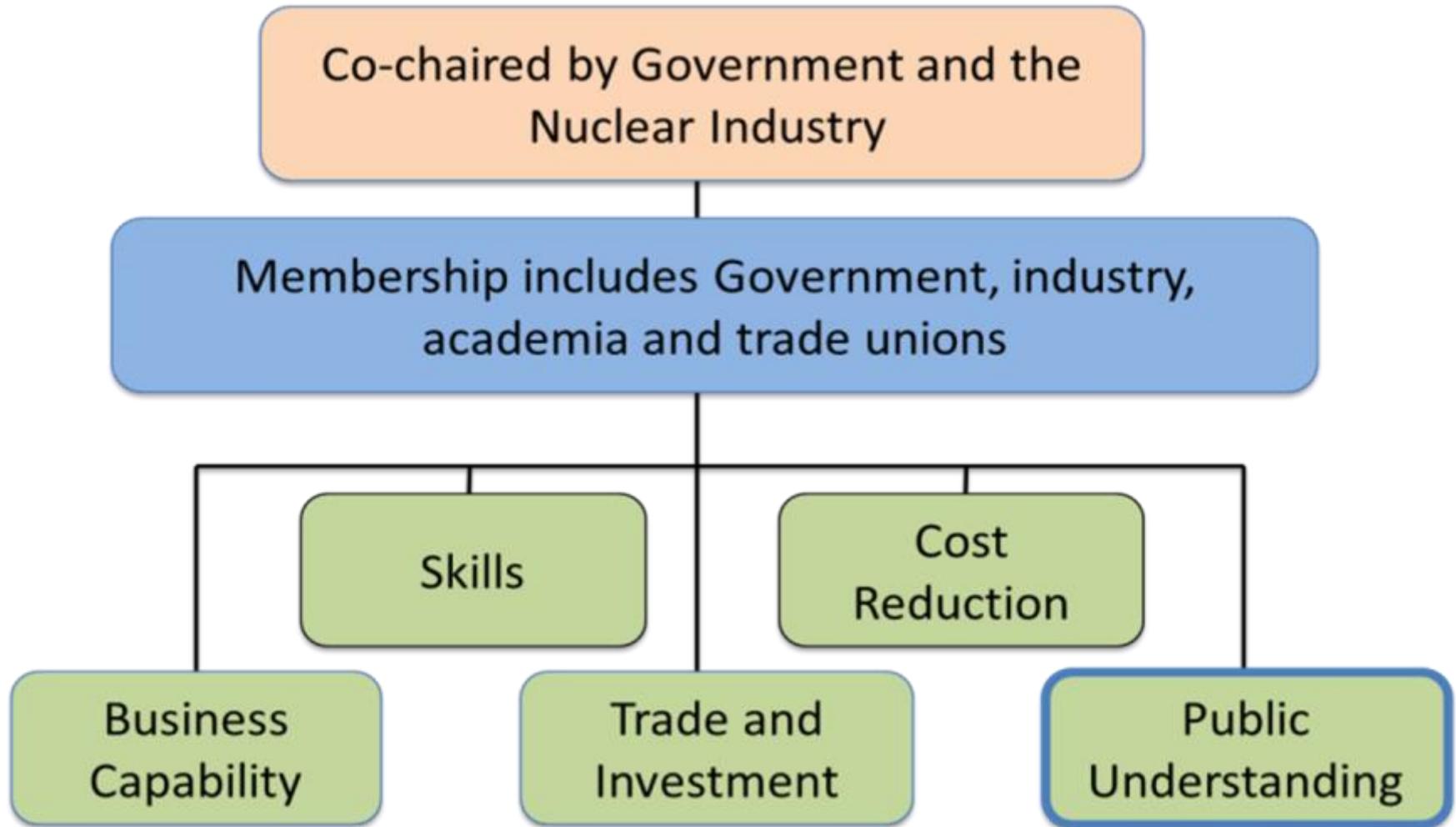
Response to crisis

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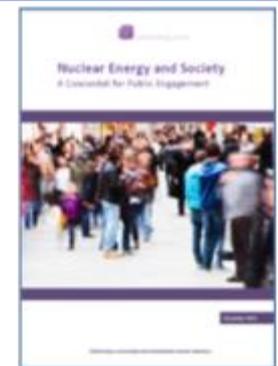
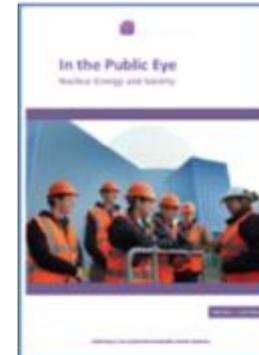
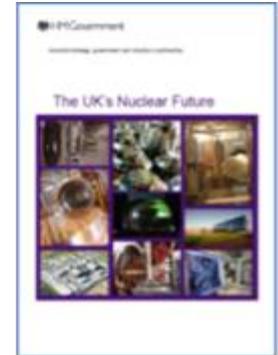


- Recap of lectures 1 and 2
- **Best practice principles for Public Engagement**
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- Current thinking for public consultation and decision making





1. Nuclear Industrial Strategy (2013)
2. Public Understanding of Nuclear Energy (2014)
3. Nuclear Energy and Society Concordat for Public Engagement (2015)

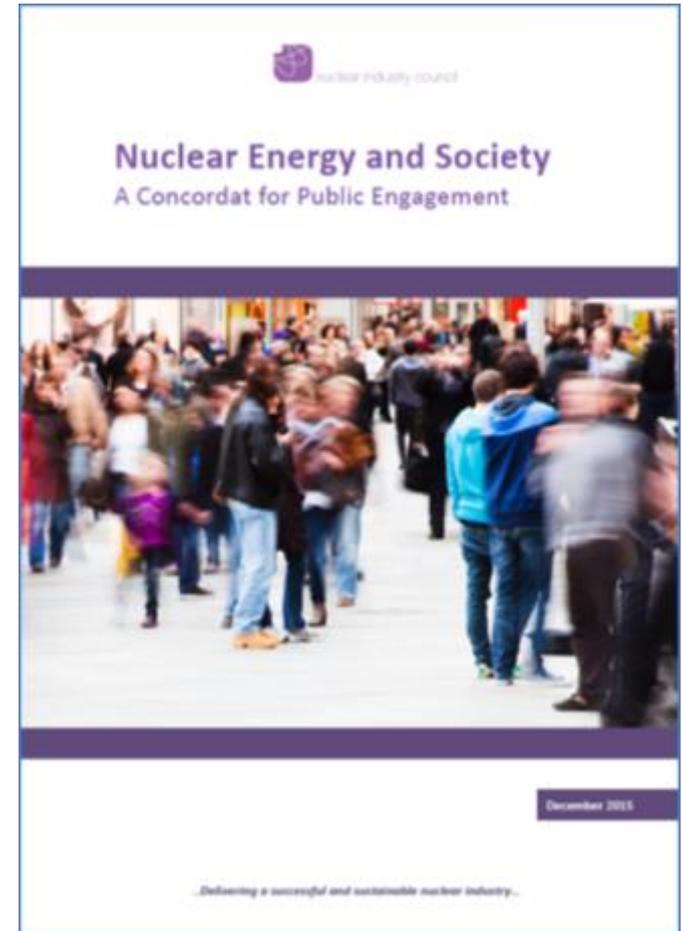


Principle 1: **Leadership Commitment**

Principle 2: **Best Practice**

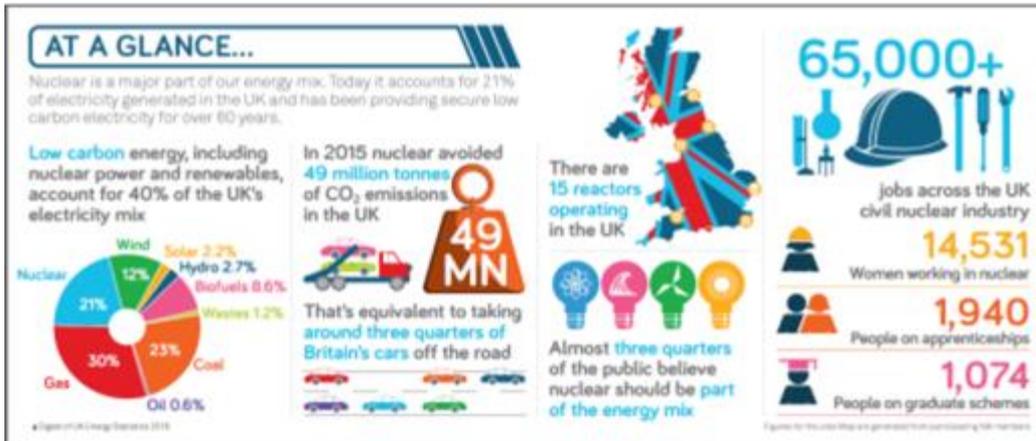
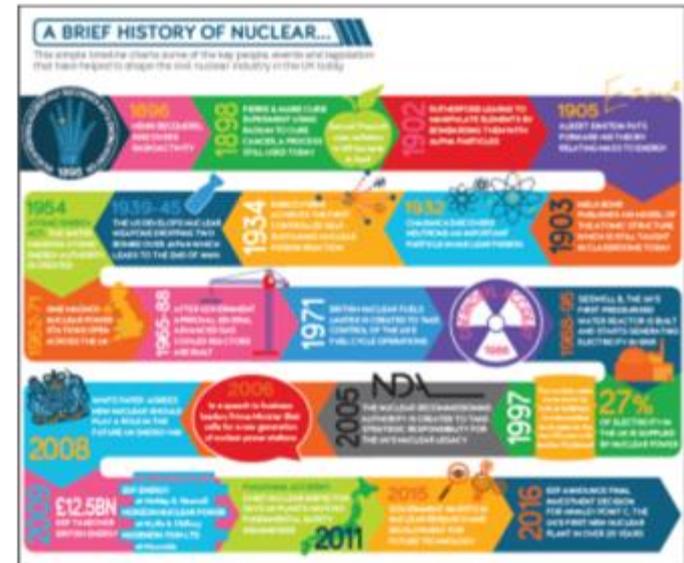
Principle 3: **Effective Communicators**

Principle 4: **Making a Difference**

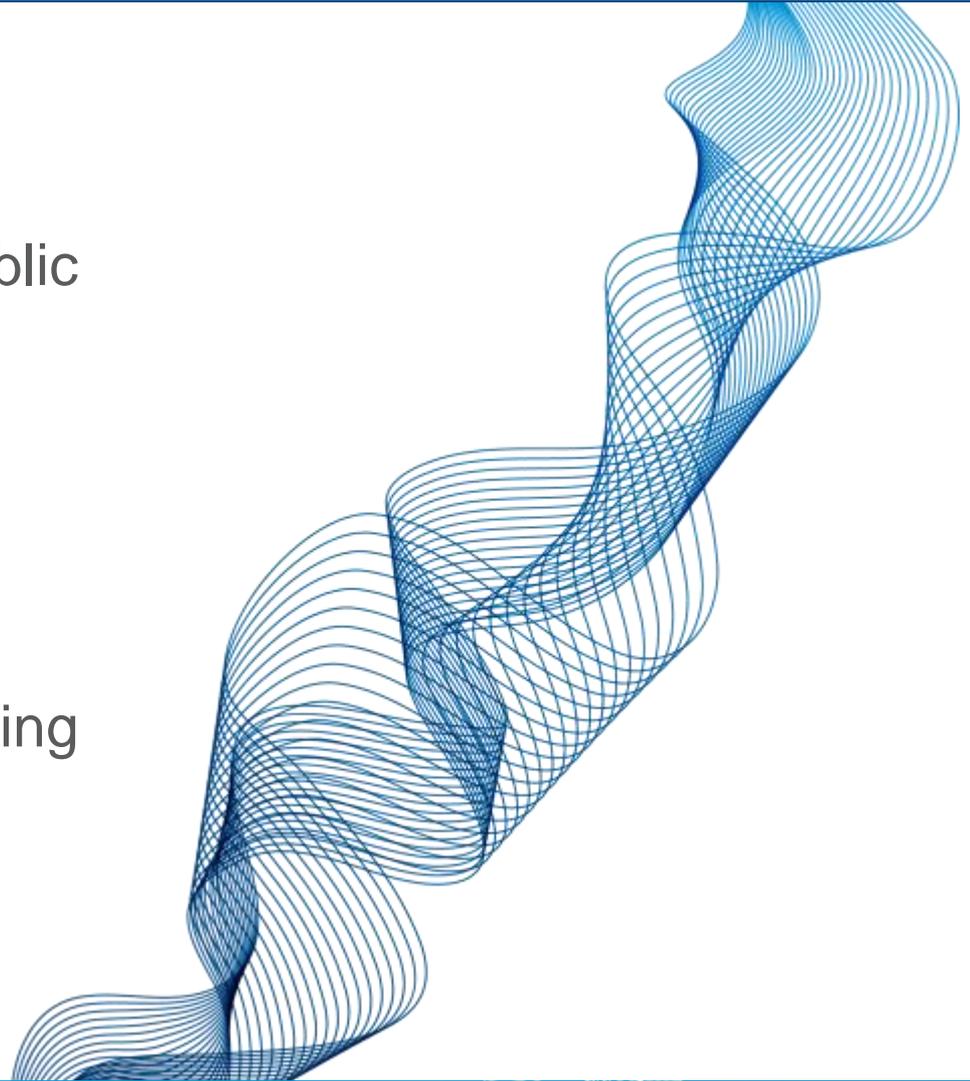


Supporting document – “UK nuclear narrative”

UK approaches to public engagement with nuclear issues



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Concordat public dialogue study

- Locations and recruitment
- Independent Oversight Group

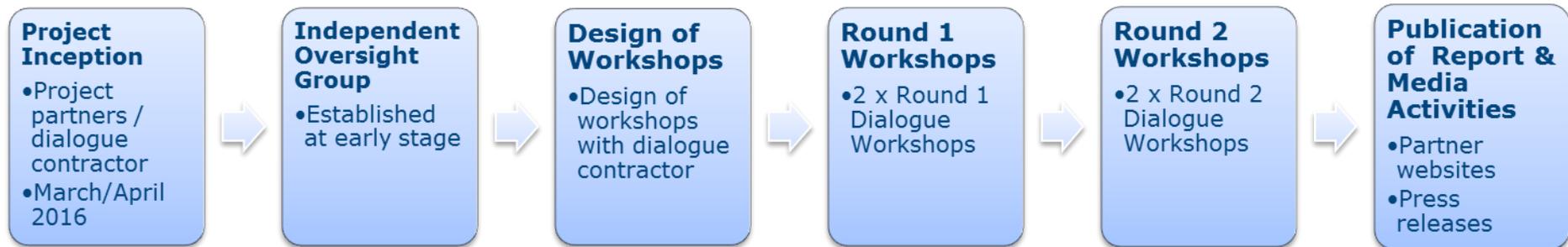


Round 1 workshops

- setting the scene and building trust

Round 2 workshops

- in depth discussion on Concordat principles



Workshop presentations

UK approaches to public engagement with nuclear issues



Annabelle Lillycrop,
Senior Stakeholder
Engagement Adviser,
The Environment Agency



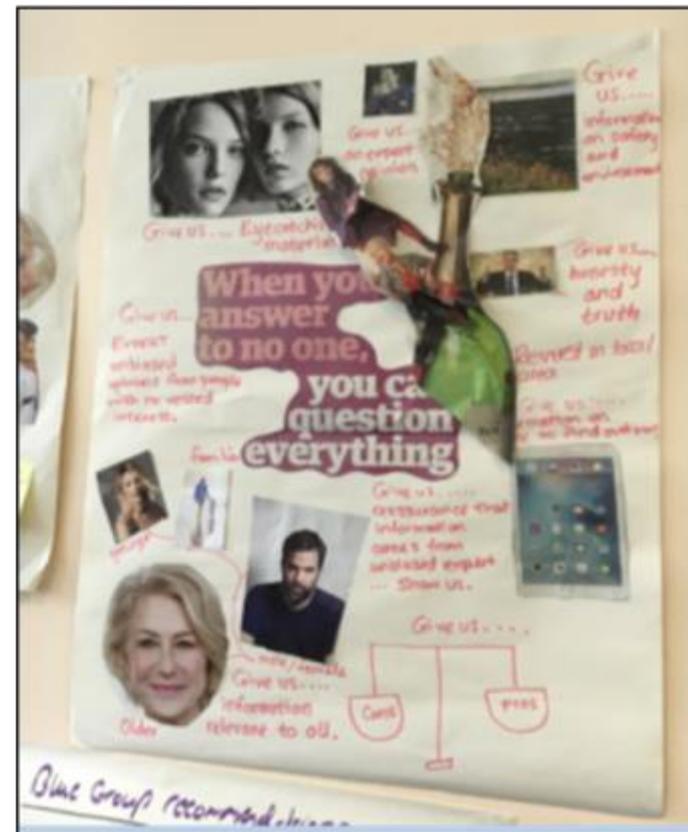
Andrew Sherry,
Chief Scientist,
National Nuclear
Laboratory



John Idris Jones,
Programme Director,
Anglesey Energy Island

Workshop activities

UK approaches to public engagement with nuclear issues



Key findings – Expectations of industry

Care for
environment &
staff

Honesty &
transparency

Talking &
listening: a real
connection

Testing the need
for engagement

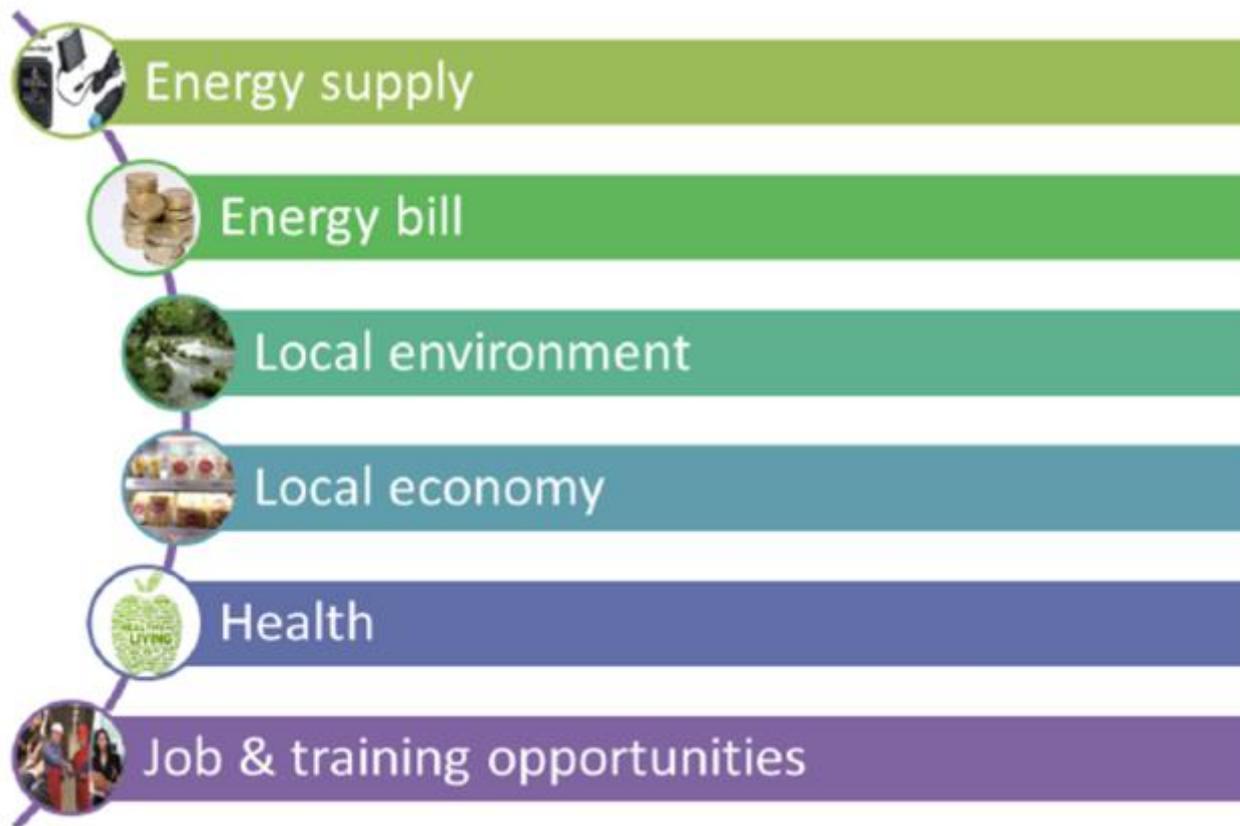
Ensuring
balanced
engagement

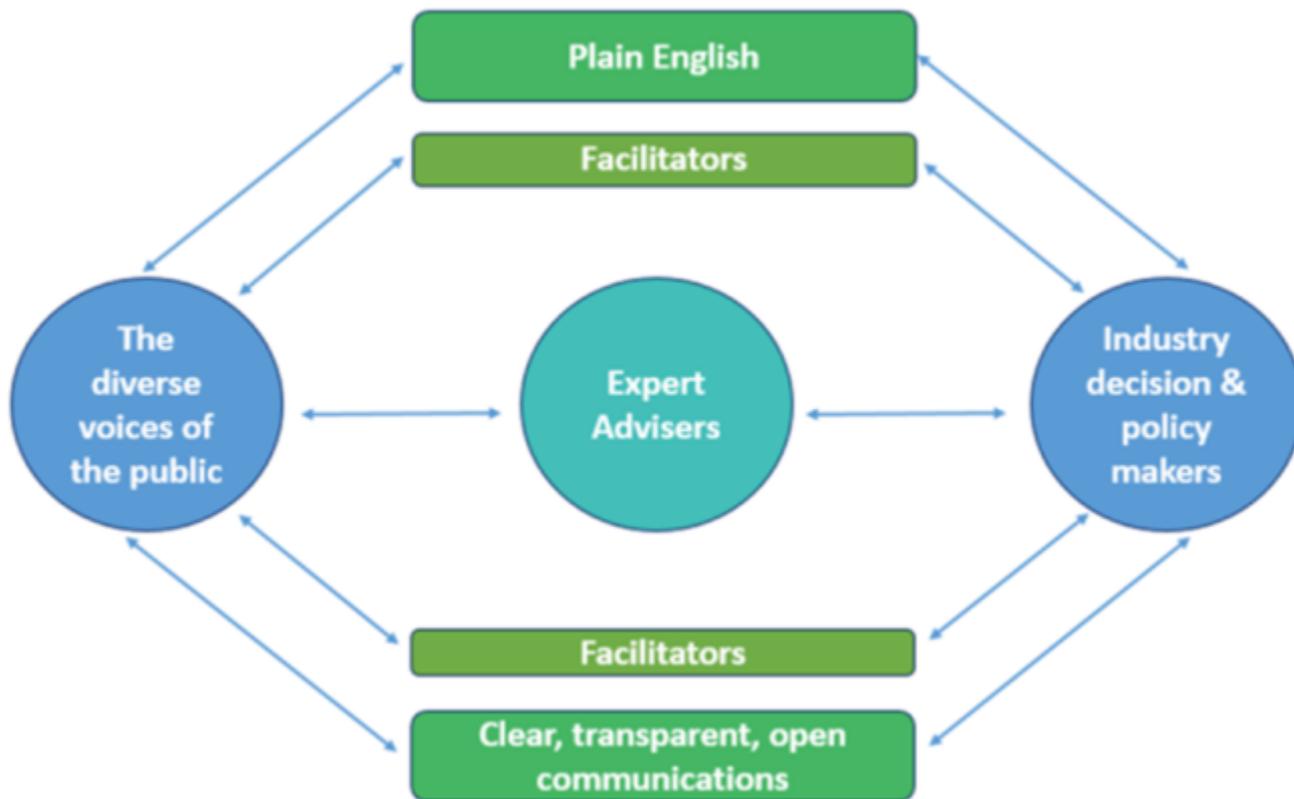
Focus on effect
on the individual

Tailored, positive
and simple
messages

Unbiased
information

Periodic industry
updates





3.5 Effective messaging



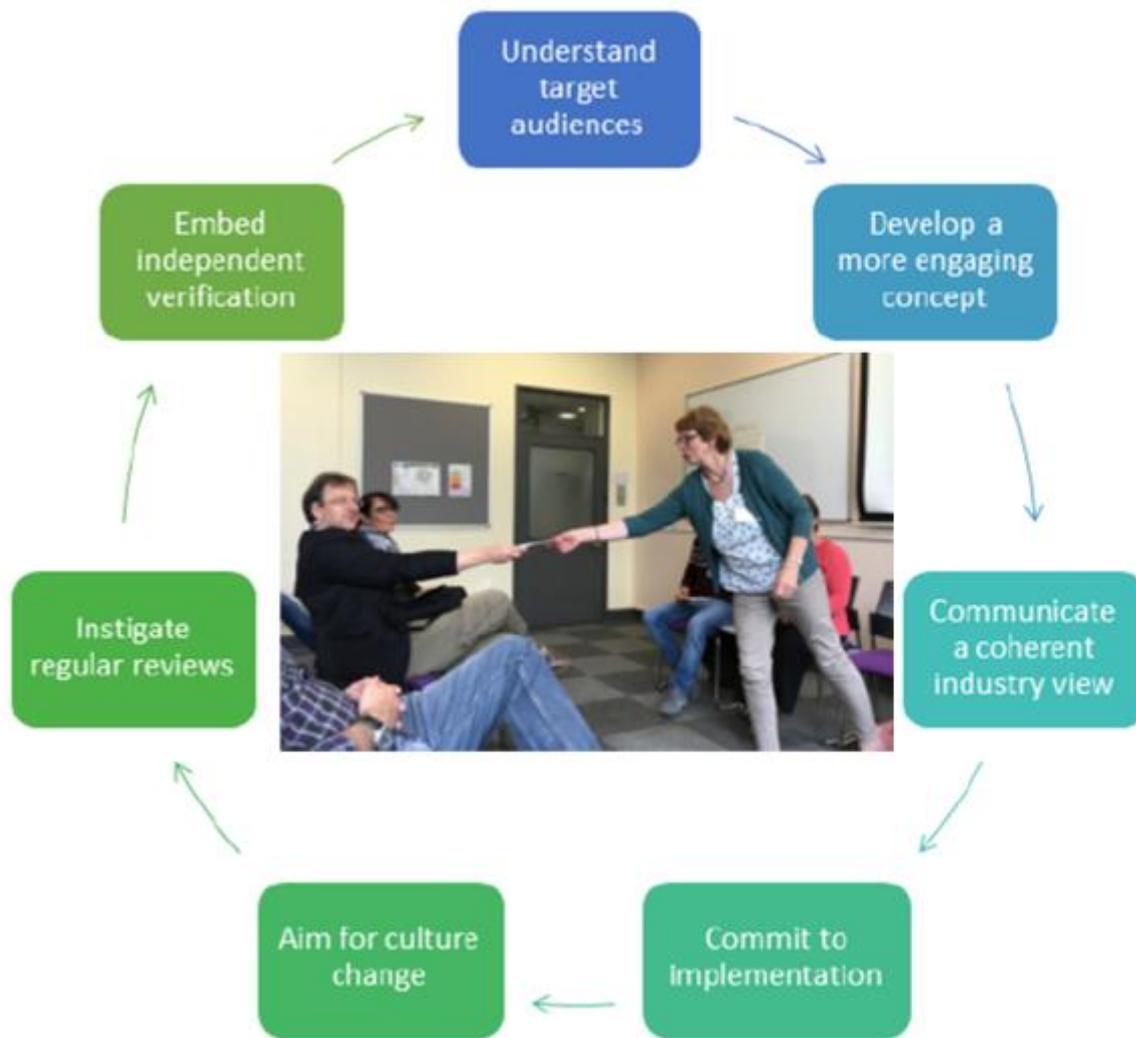
Participant views on effective industry messaging

A sample slogan:
Nuclear energy is a reliable, always there, source of power.
(Barrow)

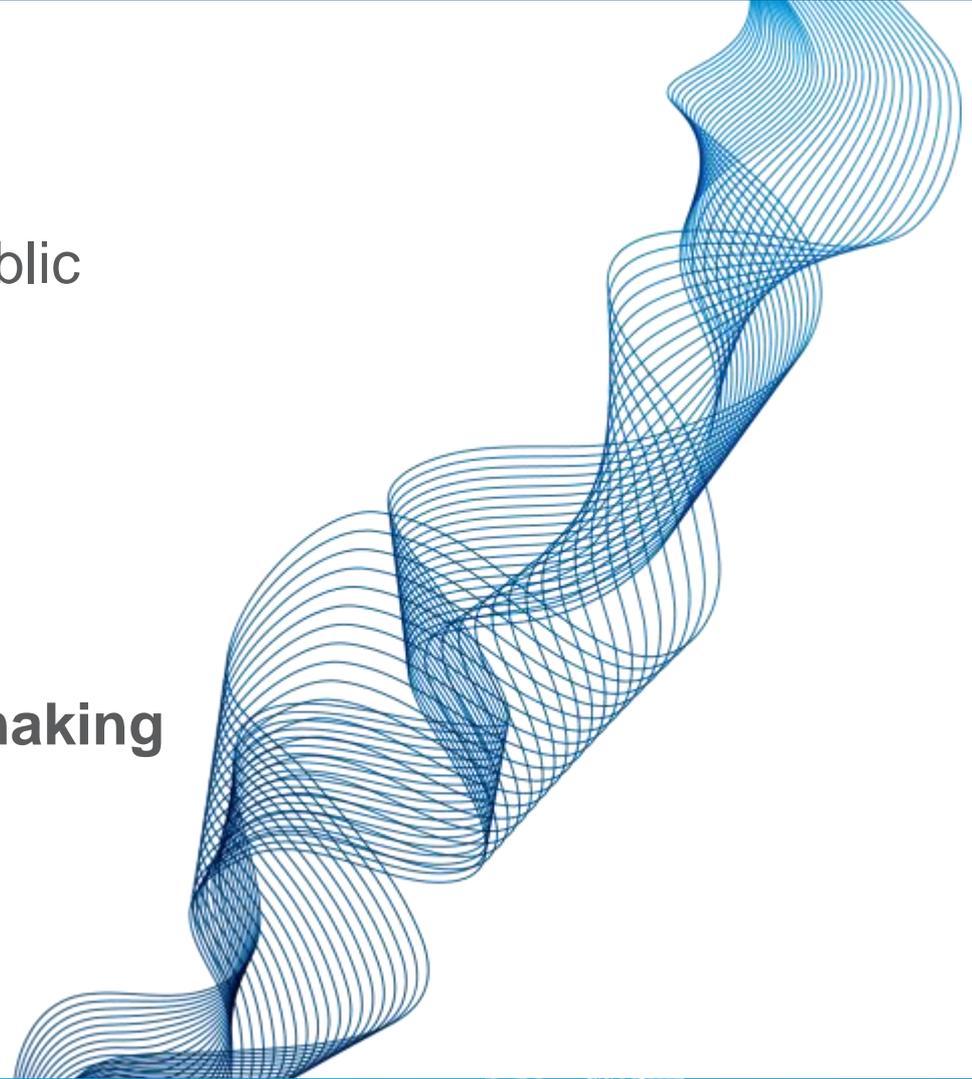
Participant views on what information they need

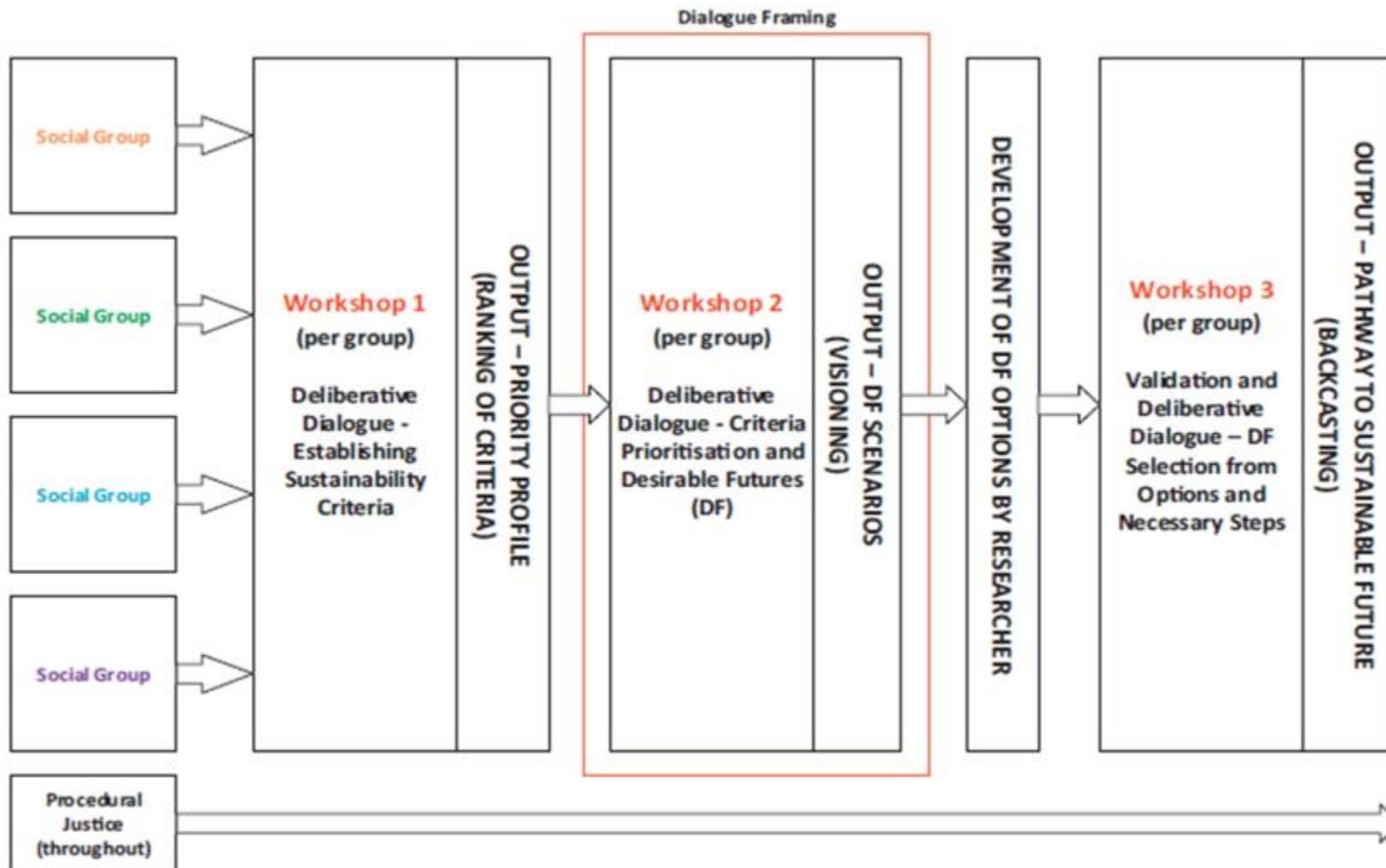
-  The UK's energy security
-  Pros & cons of nuclear energy
-  Cost to (local) economy and consumer
-  Safety record and current measures
-  Environmental and social impact
-  Waste and decommissioning

The public recommends...



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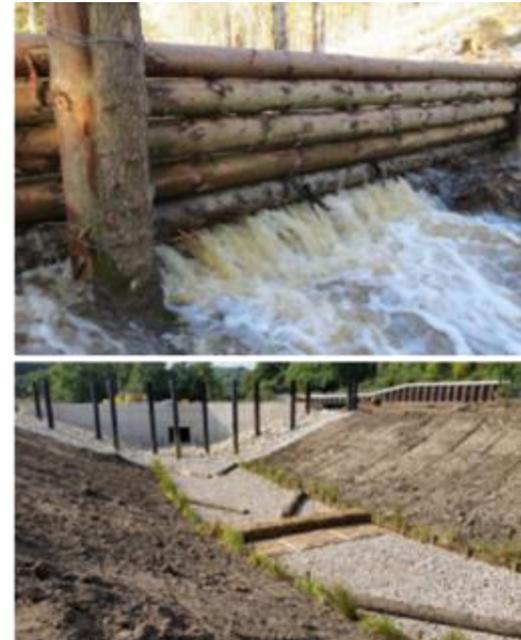
J. Whitton et al. (2015) Conceptualizing a social sustainability framework for energy infrastructure decisions, *Energy Research & Social Science*, 8: 127–138

Hybrid Forums

Hybrid - composed of a diverse and often contested range of different expertise

Forum - an 'open space' for dialogue, discussion and disagreement

Led to innovative solutions to problems in flood management and mitigation*



* Whatmore, S.J. and Landström, C. (2011) Flood apprentices: an exercise in making things public. *Economy and Society*, 40(4): 582-6

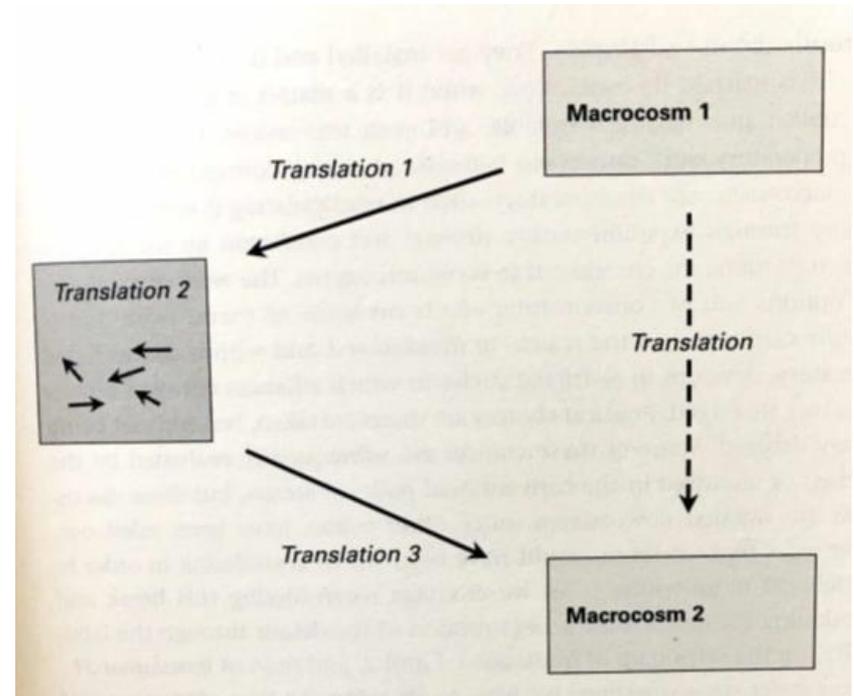
Hybrid Forums

Begin with the assumption that ***all the issues are not known in advance*** but rather emerge out of dialogue and conversation amongst interested parties that would include scientists, technicians, politicians, laypeople and others.

Controversy and uncertainty are not denied or back-staged, but instead are sought out as a positive opportunity for new learning and mutual understanding.

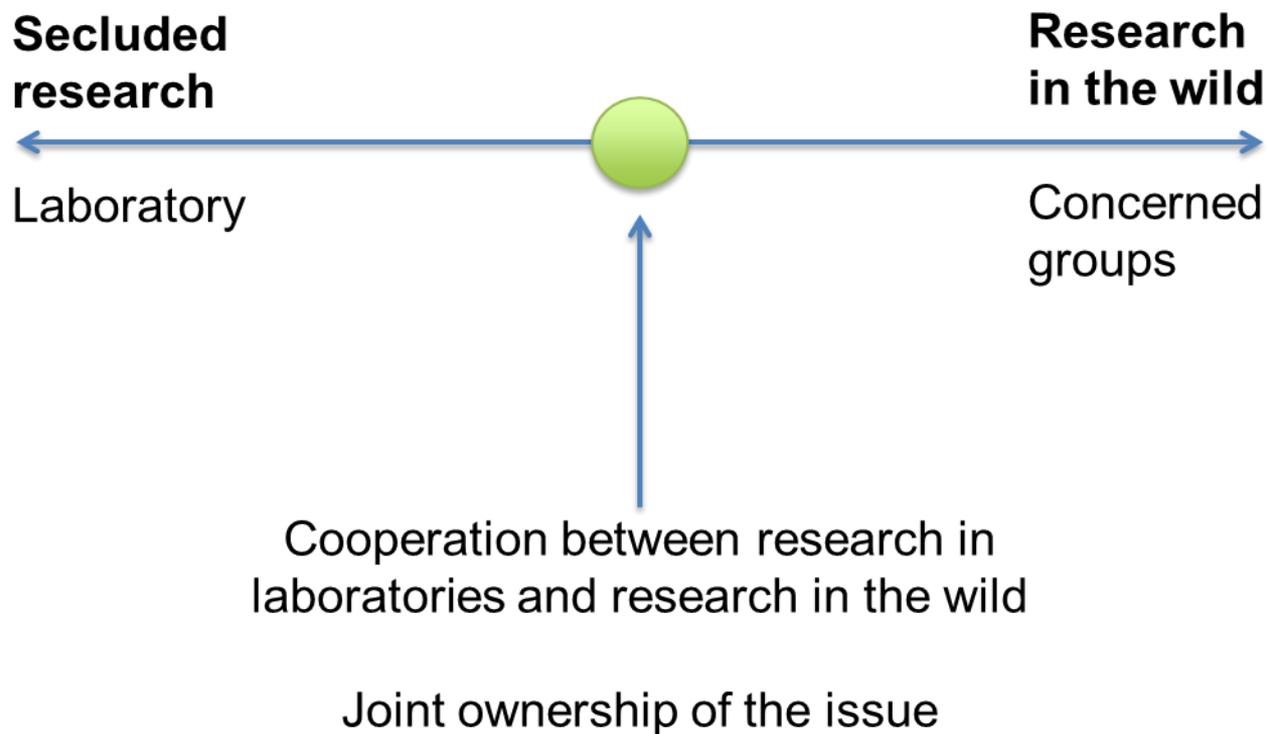
Instead of fixed identities and mutually conflictual interest-group agendas, ***new and unforeseen alliances and collaborations*** amongst people, methods, and materials can emerge.

The ***co-creation of knowledge*** through the coming together of research in the laboratory and 'research in the wild'.



Callon, M., Lascoumes, P., & Barthe, Y. (2009). *Acting in An Uncertain World: An Essay on Technical Democracy* (trans. Graham Burchell). MIT Press.

Co-creation of knowledge



Hybrid Forum pilot study:

Why, what and who?

Objective:

To see if we could initiate a Hybrid Forum!

Topic:

To explore how the 'Oxford Road Corridor' in Manchester is variously understood and the basis upon which this understanding has been forged

Who:

Cyclists, road users, university employees and students, members of local residents association, urban planners, modelers, residents



<https://www.smartcitiesworld.net/news/news/manchester-calls-for-smart-innovation-922>

NNL – Public Engagement R&D Team

University of Manchester – The Beam: a nuclear and social science research network (<http://www.mub.eps.manchester.ac.uk/thebeam/home/>)



Hybrid Forum pilot study: Results and relevance to nuclear

Theme	Learning from Pilot Study	Examples of Relevance to Nuclear
Misplacement or problematisation of categorising stakeholders	'Bike Users' as a singular category became problematic	Categorising based on: <ul style="list-style-type: none"> • Distance from facility • Employment group • Pro vs Anti groups
Identification of missing stakeholders	'White-van Man' was identified as relevant to progressing the debate	<ul style="list-style-type: none"> • Unseen 'resistance' or 'support' groups • Emerging groups with specific interest in nuclear
Conflicting stakeholder priorities	'Multi-national Oxford Road' vs 'Celebrating local heritage'	e.g. Manchester as a 'Nuclear Free Local Authority' vs Manchester's rich heritage in nuclear science and research
Use of corporate rhetoric and terminology	'World class' and 'innovation district' were dismissed by some as meaningless	<ul style="list-style-type: none"> • Dissecting nuclear jargon to make them more meaningful • Adopting and adapting local terminology
Multiple and shifting identifications and commitments	People were not fixed or consistent in their values and attitudes	<ul style="list-style-type: none"> • Opportunity to get more local ownership and buy-in • Nurture previously unforeseen alliances



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