assessment of possible futures → co-creation of socio-technical futures

Why?

Socio-technical democracy

How?

Let's explore...

Michel Callon et al. 2009

Acting in an Uncertain World

Delegative

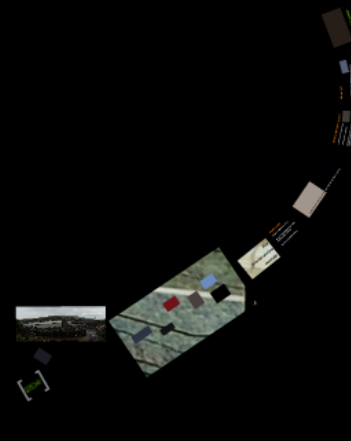
Dialogic

Hybrid forums

Participatory Action Research

Research design

Public experiment



Durham University

EPSRC
Pioneering research and skills

The University Of Sheffield.

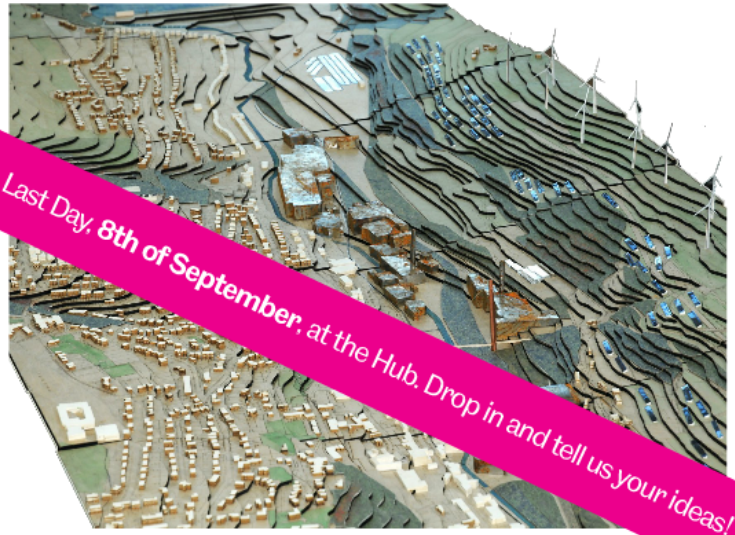
Solar Energy in Future Societies

Dr. Anna Krzywoszynska

Stocksbrige 2050,
Your Energy Vision for a Future Neighbourhood.

What would your Stocksbridge look like in 2050?

If Stocksbridge made all the energy it consumed in 2050 what would it mean for the community and the neighbourhood?



Last Day, **8th of September**, at the Hub. Drop in and tell us your ideas!

The University Of Sheffield. SSoA _research&innovation EPSRC Pioneering research and skills Durham University

Solar Energy in Future Societies

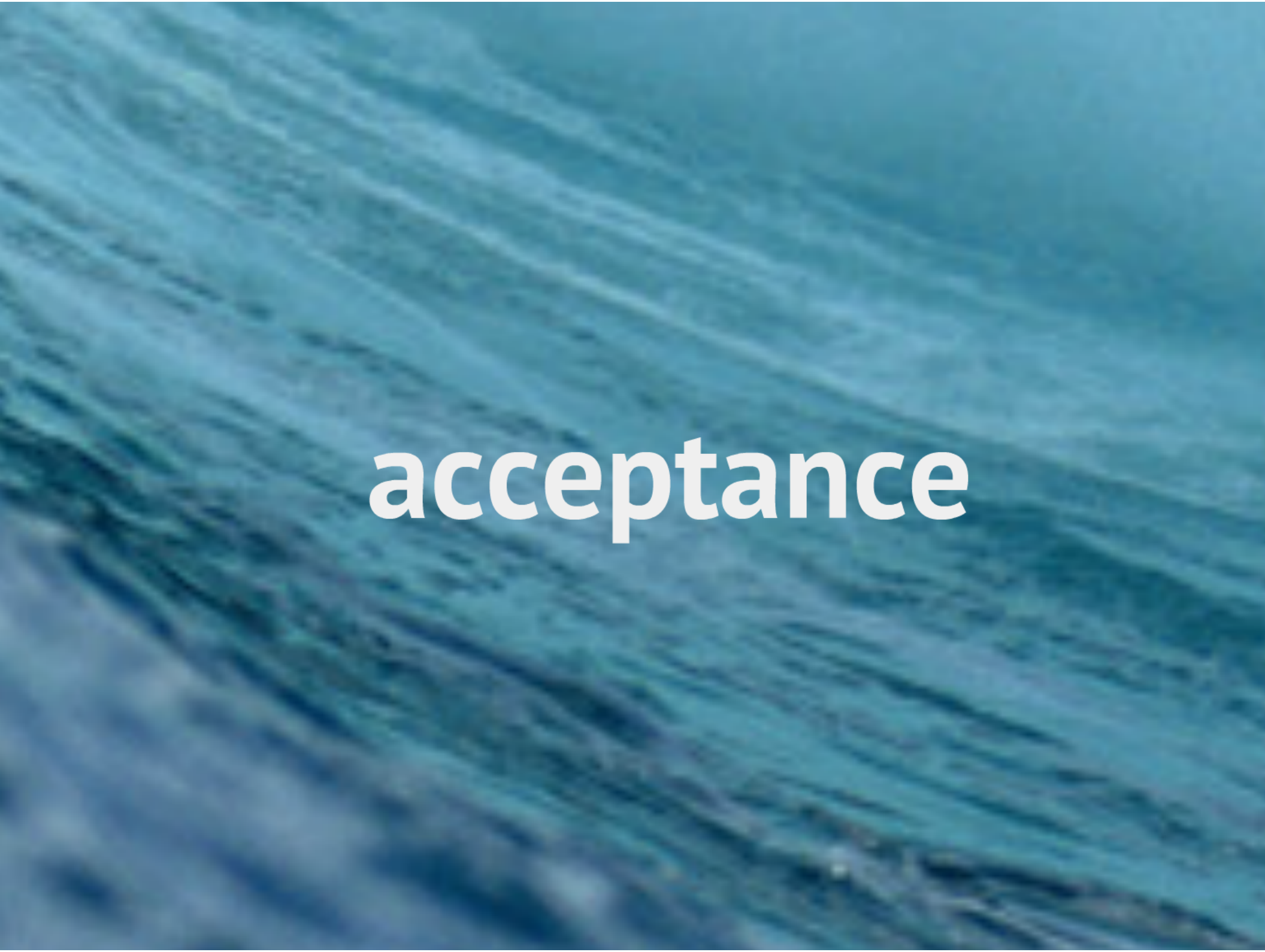
Dr. Anna Krzywoszynska

Participatory studies around socio-technical issues

Public rejection of technological solutions

- Genetic modification
- Nuclear waste disposal sitings

acceptance rejection ri


acceptance


rejection


risk


'After-the-fact' studies


Technologies
in the making

assessment of possible futures

co-creation of socio-technical futures

Why?

Socio-technical democracy

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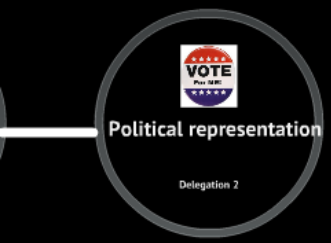
Acting in an Uncertain World

Delegative



Dialogic

"Dialogic democracy is the n
given to this dynamic proces
of constitution of the commor
which is a deliberately open,
world"

Delegative

Problem

Problem

Community of concern

Creation of 'facts'

Delegation 1

Science

Political representation

Delegation 2

Politics

munity of concern

Creation of 'facts'

Delegation 1

Political representation

Delegation 2

Science

Politics

The People

The People

The People

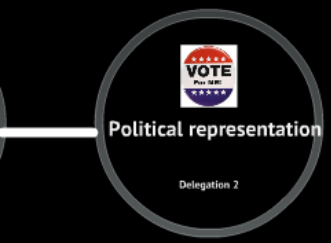
The People

The People

Michel Callon et al. 2009

Acting in an Uncertain World

Delegative



Dialogic

"Dialogic democracy is the n
given to this dynamic proces
of constitution of the commor
which is a deliberately open,
world"

Dialogic

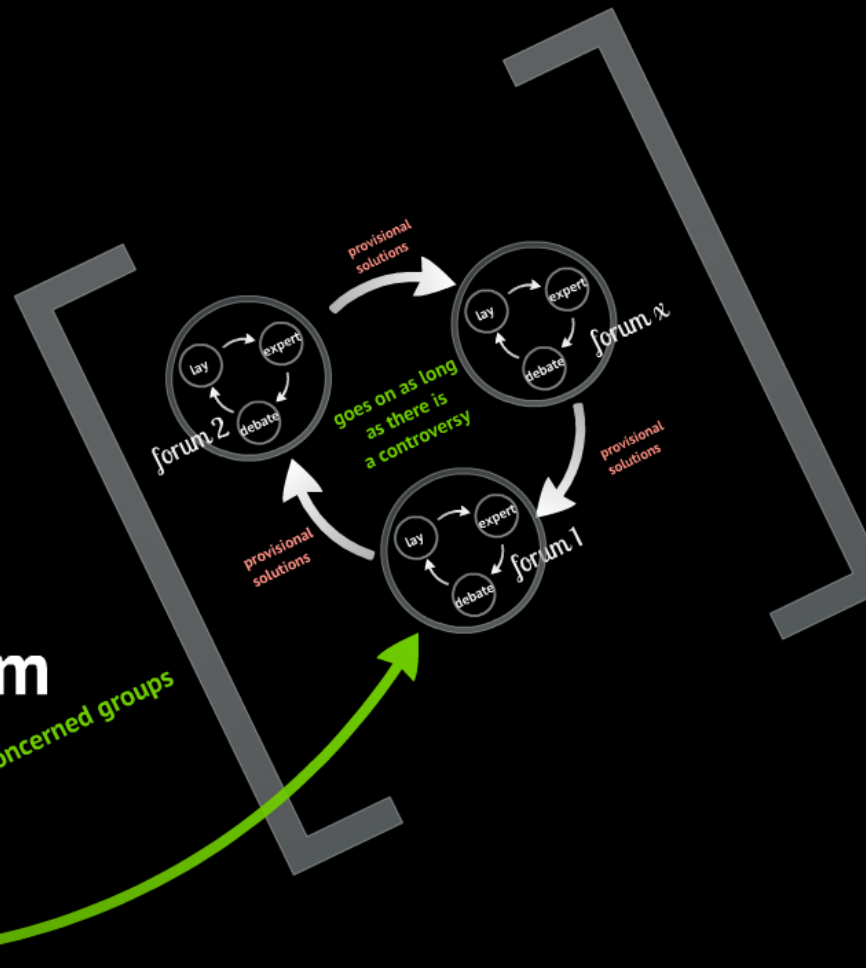
"Dialogic democracy is the name given to this dynamic process of constitution of the common world, which is a deliberately open, future world"

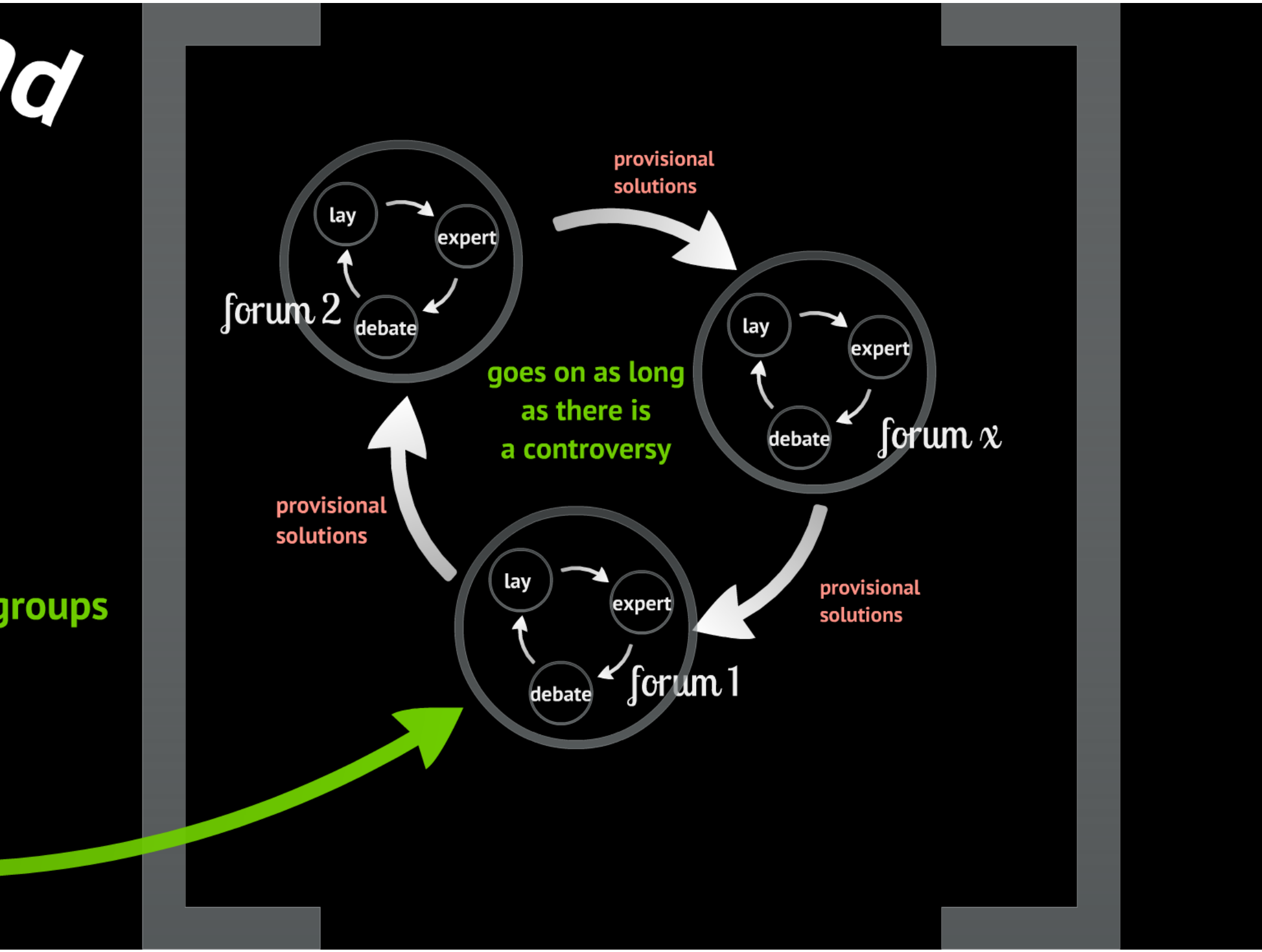
(Callon et al. 2009: 146)

(Callon et al. 2009: 146)

Hybrid forums

- open spaces of discussion
- hybrid participants: experts and non-experts, all those affected
- hybrid domains: e.g. ethics, economics and electromagnetism




provisional solutions
lay
expert
debate
forum 2
goes on as long as there is a controversy
lay
expert
debate
forum x
provisional solutions
provisional solutions
lay
expert
debate
forum 1
groups

Participatory Action Research

- implicitly political
- participants co-producers of knowledge
- communities

Research design

- local publics
- existing concerns and future visions for renewable energy systems
- outcomes relevant to the energy field

Public experiment

'Flat' structure - 'secluded research' and 'research in the wild'

"Render scientific cultures more self-aware of their own taken-for-granted expectations, visions and imaginations of the ultimate ends of knowledge, and render these more articulated, and thus more socially accountable and resilient" Macnaghten et al.'s (2005)

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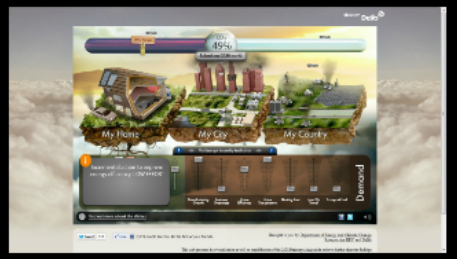
How to design participation to enable co-creation of futures?

Our challenges

making energy visible

imagining 'the future'

"...there are very few STS projects that relate user studies to a technological system that may or may not be realised at some unspecified point in the future." (Jensen 2012: 24)



Karen Parkhill and colleagues, Cardiff University, "Transforming the UK Energy System: Public Values, Attitudes and Acceptability"

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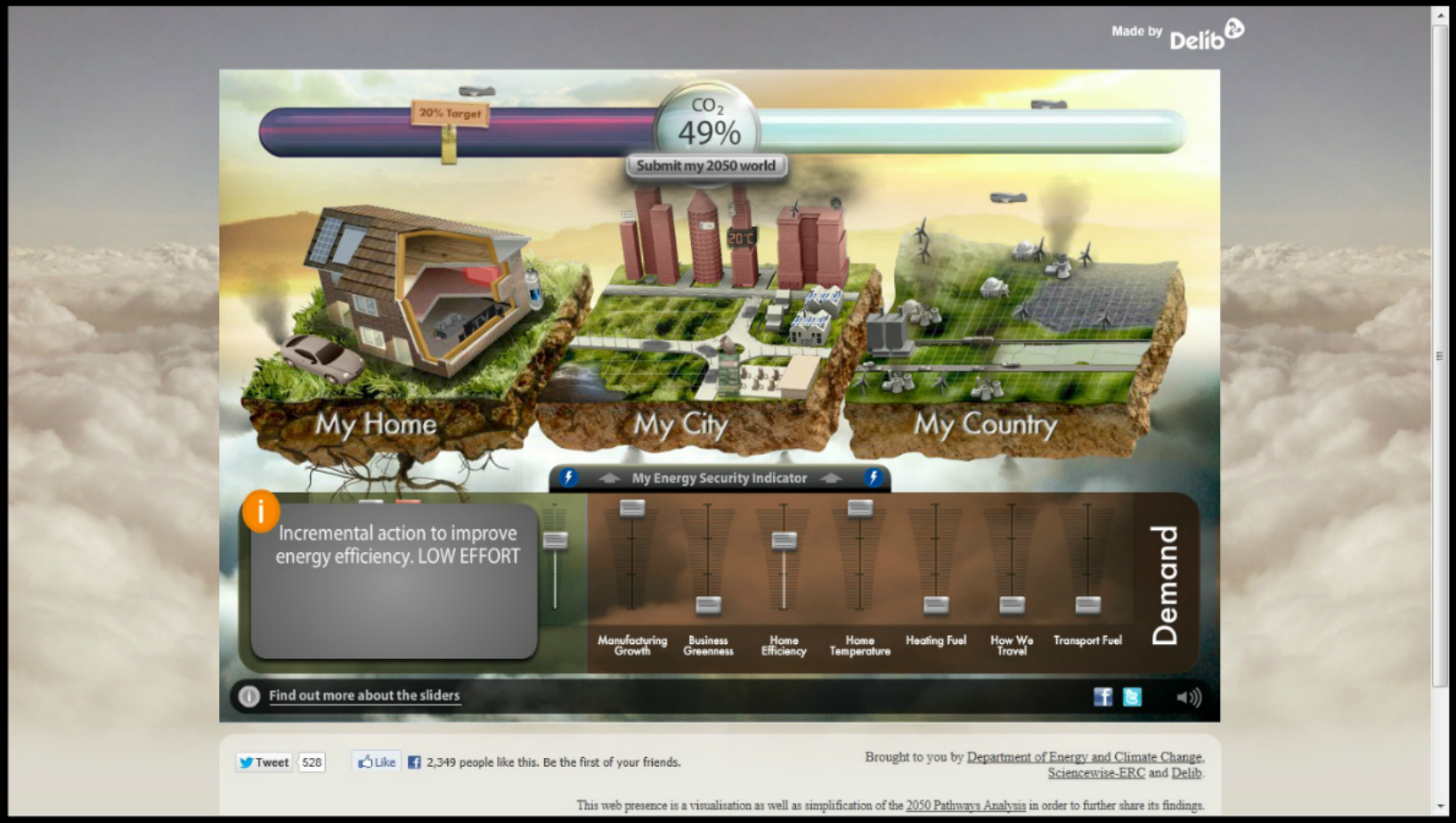
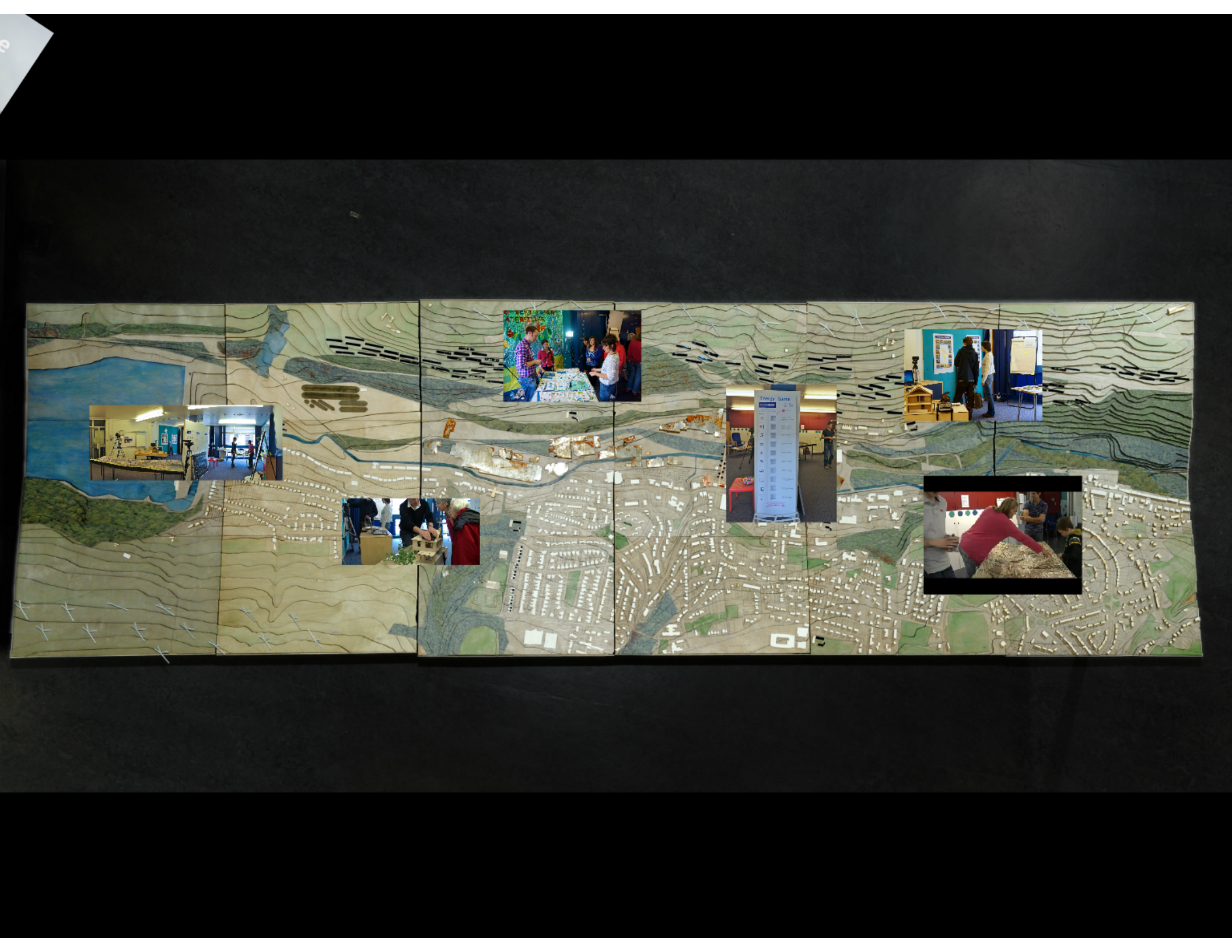


Karen Parkhill and colleagues, Cardiff University, "Transforming the UK Energy System: Public Values, Attitudes and Acceptability"

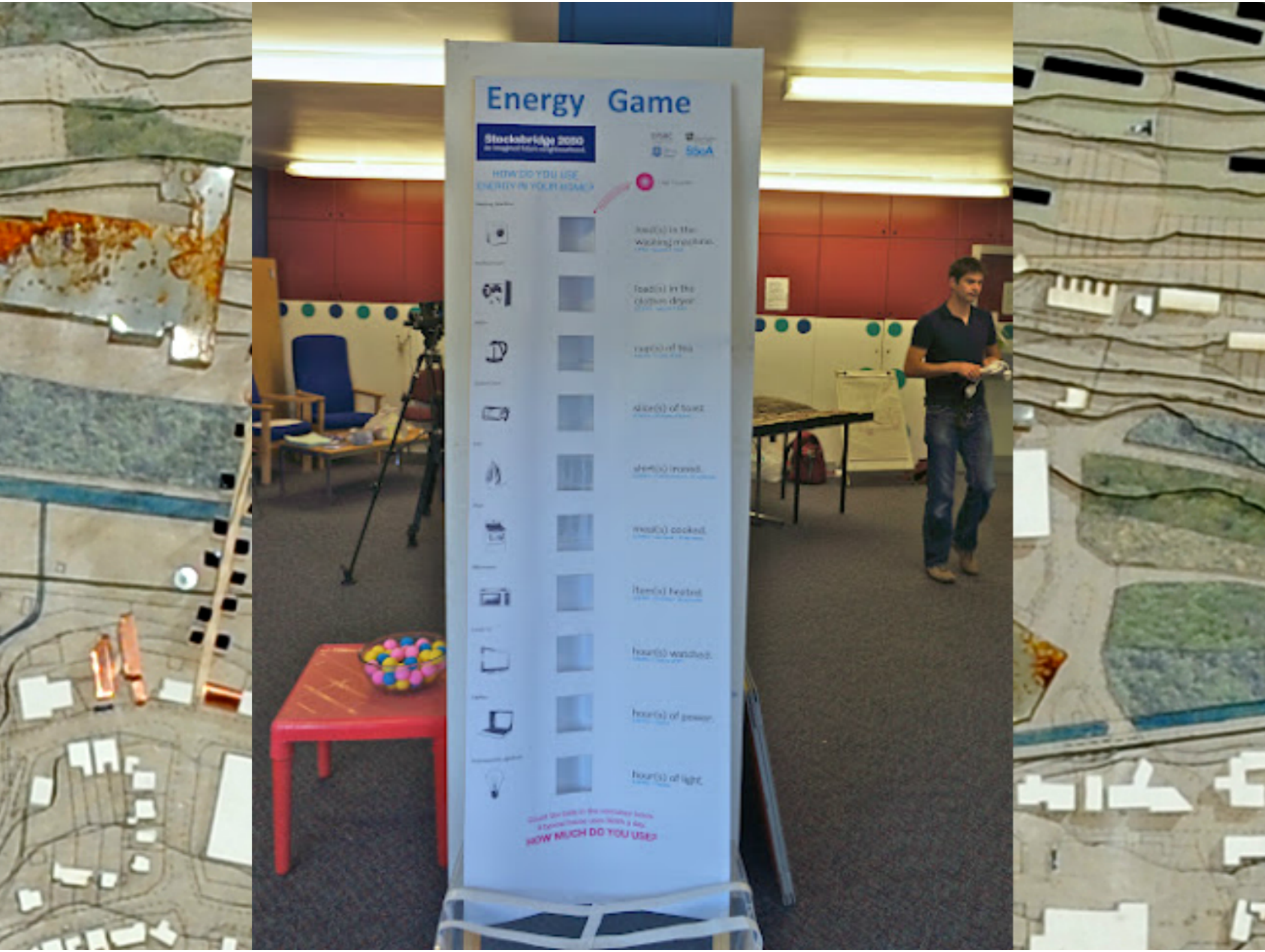
"How can we present a proposal intended not to say what is, or what ought to be, but to provoke thought, a proposal that requires no other verification than the way in which it is able to 'slow down' reasoning and create an opportunity to arouse a slightly different awareness of the problems and situations mobilizing us?" (Stengers 2005a : 994)


Making Things Public
Atmospheres of Democracy
Assembling or Disassembling?
Which Cosmos for Which Cosmopolitics?
The Problem of Composition
From Objects to Things
From Laboratory to Public Proofs
The Great Pan Is Dead!
Reshuffling Religious Assemblies
The Parliaments of Nature
edited by Bruno Latour and Peter Weibel

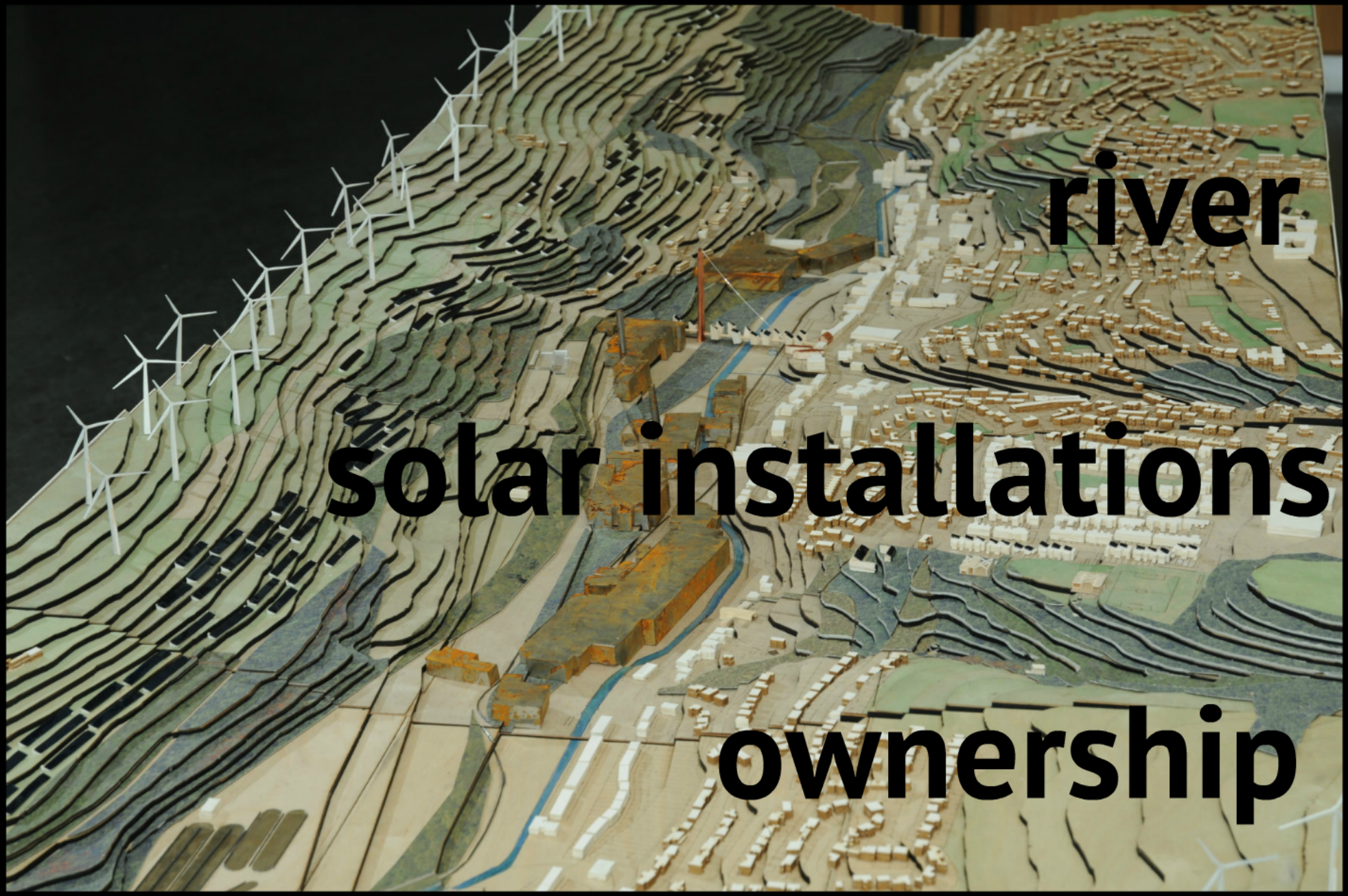
first event in Stocksbridge
gathering a public




VERY HUNGRY
CATERPILLAR


Energy Game
Stocksbridge 2050
SSIA
HOW MUCH DO YOU USE?


Creative Solar Technology
SOLAR
WHAT?
SOLAR
WHERE?


river
solar installations
ownership

What's next?

Project continues till 2015

Involve other neighbourhoods in Sheffield (max 2 more)

Analytic-deliberative model


mosaic north ltd
digital media center
emplaced socio-technical futures
embo


tures
embodied and emplaced cogniton

Rational epistemic agents?

judgements can be communicated

participants can be “objective”

capable of assent on the basis of understanding of different perspectives

Van Oudheusen (2011)

But are we?

pre-existing power relations and discourses

group behavioural dynamics

consensus

["objectivity [which] turns out to be about particular and specific embodiment" (Haraway, 1991, p. 190).]

Thanks for listening!