

Fig. 1. A model of co-production depicting the interplay between the material, normative, social and cognitive domains.

Derived from Isanoff (2004ab).

CO-PRODUCTION – LURES AND PITFALLS

Translation

Review

Synthesis

Monitoring

Concept

Dr. Silke Beck, UFZ Leipzig



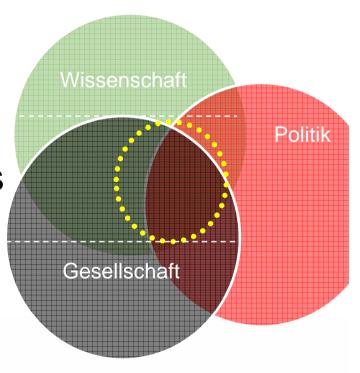


STRUCTURE

Tacking Stock of Co-Production

- Research Context
- II. Concepts of Co-Production
- III. Implications and Consequences
- IV. Lessons learnt?







THE CHALLENGE: RECONCILING DEMAND AND SUPPY

Rio+20 UN Conference:

- science has been asked to be "relevant"
- demand for "usable" information for decisionmaking

Relevance and "usability" of scientific findings?





II. CO-PRODUCTION

It requires systematic efforts

- Reconcile supply and demands for knowledge in an effective and coherent way
- Align research closely to the needs of the transformation process

First initiatives experimenting with co-design

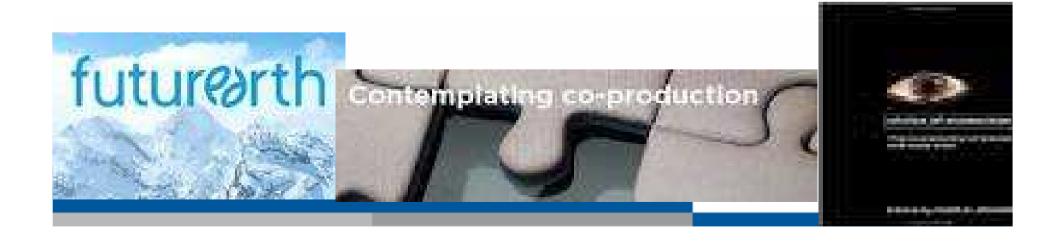
- Participatory turn?
- New contract of science and society?



WHAT IS CO-PRODUCTION?

The term 'co-production' has a range of meanings ?!?

- a practical-organizational one, as adopted by Future Earth
- a conceptual, social-philosophical one (STS)
- Jasanoff introduces the distinction between "weak" and "strong" co-production
- Melissa Leach: trying to translate and exploring middle ground in between



CO-PRODUCTION

- "Science needs to be designed and produced in ways that speak to and are relevant to the perspectives, priorities and interests of particular groups" (M. Leach)
- The bottom line reason for doing co-design is relevance and usefulness
- People will buy into it, because they've already bought into the making of it

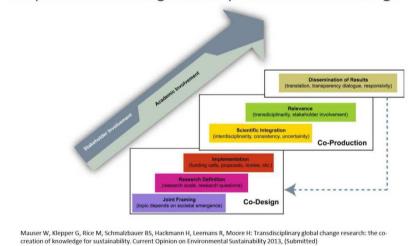




FORMS OF CO-PRODUCTION

MULTIPLE STAKEHOLDERS WORK TOGETHER

The process of co-design and co-production of knowledge



to actually carry out research, to generate and apply findings (Co-Production)

to design a scientific research process (Co-Design)



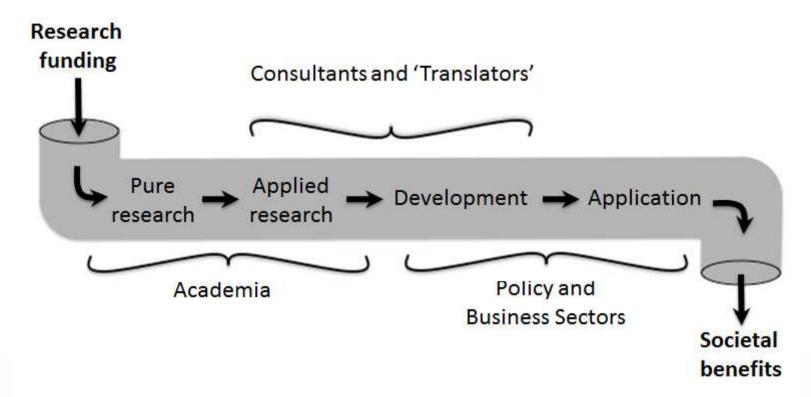
STRONG CO-PRODUCTION SHEILA JASANOFF

MUTUAL CONSTITUTION OF SCIENCE AND NORMS



- The way a thing is (ontology) is inseparable from normative commitments to what ought to be (norms)
- constructing a representation of the world as it is a representation of the world as you want it to be

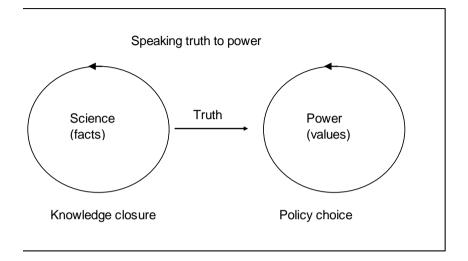
http://www.futureearth.org/blog/2014-jul-23/be-inclusive-you-need-more-voices-qa-sheila-jasanoff



A 'linear model' of science and society



FROM DETERMINISM TO EXPERIMENTATION



Science determines policy

More and better information trigger political action

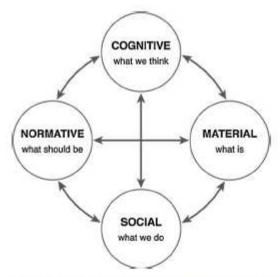


Fig. 1. A model of co-production depicting the interplay between the material, normative, social and cognitive domains, Derived from Jasanoff (2004a,b).

Mutual interplay

CoP as experimental process, open and contingent outcomes



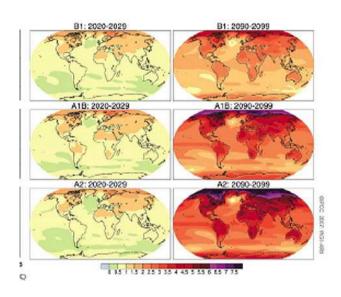
CO-PRODUCTION: MELISSA LEACH



"Any position – any way of looking at the world – taken by researchers or other stakeholders, always contains implicit social and political commitments, that contain views of the world and the way one wants the world to be."

the design of a scientific enquiry is also the design of a particular view of society and social order (world-building) (http://www.futureearth.org/blog/2014-jul-23/co-design-relevance-and-usefulness-qa-melissa-leach)

FRAMING (EFFECTS)



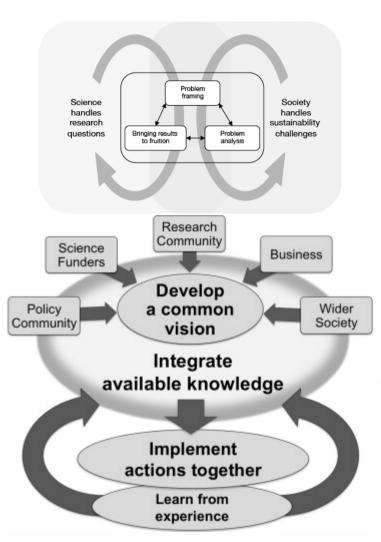


the way in which we frame a problem is inextricably linked to the ways we choose to solve them:

- Framing climate change as global, single and all embracing risk
- requires a global, multilateral solution



FEEDBACK LOOPS



co-production of science is putting a vision into action and producing society

LOOP:

'Nature' and 'Society'

INTERTWINED

LOOP:

'Analysis' and 'Behaviour'



III. IMPLICATIONS AND CONSEQUENCES

Requirements for the scientists and stakeholders involved

- to be "reflective about how we intervene, in word or deed, in the changing order of things" (Jasanoff)
- to be humble and reflective about own positions, recognizing that own views of the world and of what kinds of science and knowledge are appropriate are always positioned and partial (Leach)





UNCOMFORTABLE KNOWLEDGE

That's not necessarily comfortable for scientists used to 'speaking truth to power'



- Neutral Arbiter
- More and better information trigger political action
- Scientific evidence as the only authority to justify policy action
- global problems to be solved by expert consensus



SPEAKING "HONESTLY"

- Critical scrutiny: the enterprise of science is always about putting out hypotheses, questions and ideas; opening them up to critique and testing
- Need to lay open
 - Limits of information and the extent of their uncertainty in a spirit of professional *humility* (Jasanoff)
 - Ambiguities in the available knowledge not be concealed behind monolithic claims of scientific certainty
 - Normative commitments



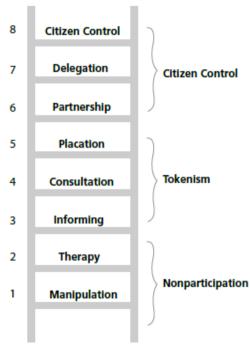
'TO BE INCLUSIVE, YOU NEED MORE VOICES'

"Local knowledge and stakeholders should be a vital part of Future Earth's co-design and co-production" (Leach)

- people living with climate change who might be affected by mitigation efforts need to be involved
- they play key roles at national, regional and local levels
- "The perspectives of people who are dealing with ecosystem and sustainability processes in everyday urban and rural settings are crucial" (Leach)



FROM PARTICIPATION TO GIVING VOICE



Arnstein's Ladder (1969)

Degrees of Citizen Participation

(Dis-)Empowering effects
Risk of de-skilling and marginalizing local voices by

- framing questions as a purely scientific issue
- closing down discussions from the outset
- substituting the epistemic authority of experts for all experience of society
- neglecting questions of representation and legitimacy

ASSOCIATION

INSTITUTIONAL DESIGN

Challenges: Linking up scales and designing platforms to give a voice to a full diversity and plurality of views and knowledges

Taking into account practical things:

- who's sitting at the table?
- who speaks for the local/ global?
- where are discussions held?
- how are they chaired?
- how is participation organized?
- how are stakeholders invited?





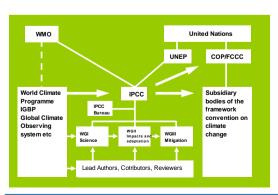
INSTITUTIONAL DYNAMICS

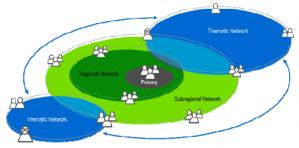
Need to:

 Address causes rather than symptoms: such as constellations that drive such organizations towards premature closure (power relations + lack of capacities... access to information)

Improve organizational responsiveness and

institutional reflexivity







IV. CONCLUSIONS

no simple solution/ panacea - one size fits all model

Opening up to choices in co-production

 by bringing in generally neglected knowledge sources, voices

RE-POLITICIZATION BY A PLURALITY OF ACTORS

- Opening up to alternative paths and options
- Catalyzing important political debates about societal transformation towards sustainability







OPEN QUESTIONS

- How to distinguish from legitimate and non-legitimate forms of co-production?
- How to design novel processes and arrangements?
- How to address real life conditions and capacities/ societal contexts & institutional dynamics?
- How to render co-design responsive, transparent and democratically accountable?





THANK YOU FOR YOUR ATTENTION!

FOR MORE INFORMATION:

http://www.ufz.de/index.php?de=5770

http://www.ufz.de/index.php?en=31833

COMMENTARY





LETTERS

Fukushima Research Needs World's Support

SERIOUS CONFUSION SURROUNDS THE ACCIDENT AT FUKUSHWA DAITCHI NUCLEAR POWER Plant with regard to the amount of permissible radiation exposure, particularly in children "Fultashimatevives the low-dose dehate," D. Normile, News Focus, 20 Mag, p. 908, "Citizens ("Fukushima revives the low-dose deha to," D. Normile, News Focus, 30 May, p. 908; "Citizens fied radiation for from Fukushima," D. Normile, News & Analysis, 17 June, p. 1365). The pri-

Institutions for from Teknishma; D. Nemick, News & Analysis, 17 Junc, p. 1369; The private years not first on onfasion in the disk of scientifice-vision to (1).

On 29 April, Osako Toshini, Calinter Advisor and a professor at University of Tolyowko specializer in midations settly, of fixed a tentifit registation. He claimed that the 20-mSV limit on a musual radiation exposure for demonstay school-plaggocusted use set by the government was tools high, and mocommended that it should be bossed to 1 mSV-year. The

government says that these standards are based on those of the International Commission on Radiological Protection (2). These may be suitable for adults, but there is insufficient evidence to argue that the same standards apply to children.

It is now necessary to initiate a large-scale hort study of childhood thyroid cancer in the Fuktashima region. This study would register all children in the affected region; periodically and accurately measure their internal and external radiation exposure; and follow the children for more than 10 years. This would mark the most impor-

than 10 years. This would mark the most impor-tant scientific study that Fakulinis can now offer to the people of the would. This study would sagment the lossons learned from Chernolyi. Although some middle-term (~10 years) and middle-scale studies in we teen published on Chemobyl (3-6), most recovery projects lacked economic support (7).

Science-Policy Interface Scientific Input Limited

THE POLICY FORUM ABOUT THE PROPI and Ecosystem Services (IPBES science-policy interface in biodiversity ecosystem services, but does not addre fact that science policy formation doe

depend solely on scientific facts.
In practice, policy is formed through interming ling of se is ntificknowledge, political consideration

Towards a Reflexive Turn in the Governance of Global Environmental Expertise

The Cases of the IPCC and the IPBES

Stir Rd., Marci Britt, Jaco Chilery, Algority Egypto Figure Chapters, Adding Chapter (1977) (Allies, Tree) Statement Butch Mirgard, Carl Mile, Takes Notes, Caren Nghiber, and Reds, Fabor Kenhas. Referre Various, Orders City

During and down a right down managem set of the Improvement Seeing Design During (ACC) in the Intercomment of Business or Business und Ecologram Santus (IPRES) mader afterlang A decord algorithm a love strepto all resolut description of the Eight and the Eight of the Physician of August of Augus

AM NUMBER OF STATES AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PART

Wine translating organization are composed as regional. A source Report (AET): The panel is recognized as a planner by movement are particularly in the contract of the contract are providing policy relevant source or global policy. It has contie ins of Neckento, inswinde und apperte hier to betwee termanuel agrificate materia (34 insulfationeme), illudo de monocomprismos entienzame of catolic trans-ing of State in 1811, 194 person glaveral for poly-risk are lorse beign has being or as linear expected the growth of a total. Built of glittal statement with pure stage, thereby experting a reportant one. Their additing characteristic contributions in the origination and being the contribution of characteristic contributions in a contribution of the contribution that is this array or condensated by a Constitution month that we shall discover a state of the section of a fields the minimum price who are produces. This a persion, where the same are the same as a second of the same and the same are the same as a second or the same are the same as a second or the same are the same as a second or the same are the sam this are scientific towards and publications.

The transportmental Paris' or Cleans Cargo (IPC) and

subglobal scales, as well as their contractors with other diverse. the brings removal Phyline in Birds swip and Rose, sees of charge in the webl, an odd poorly underscool Beause made See to the DECCI provide a colorio sample of rough which to use the changed since the continuous or the DEC to the law 1980s, place they chanted and upon the third to the changed since the provide them to be called the changed since the provide them to be called the provided the changed since the provided the changed since the provided the changed since the provided since the provided the provided since the p

