

RECONSIDERING THE RELATIONSHIP BETWEEN SCIENCE, POLICY & POLITICS

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PROBLEM

- ➤ Calls for 'science-based'/evidence-based policy-making and the 'unhappiness' about the science-politics interaction - a result of a 'Faustian Pact': short-term attraction, long-term unhappiness
 - stupid publics
 - misunderstood scientists
 - stupid politicians
 - ➤ risk-averse regulators/agencies
 - > vs. concern about risk & authority

MENU

- Why orthodox typologies are unsatisfactory
- ➤ What are the bargains of 'science in government'
- Science in Policy-Making
- ➤ Beyond the 'Faustian Pact' reconsidering actors in worlds of a) knowledge generation and b) policy action

ORTHODOX TYPOLOGIES

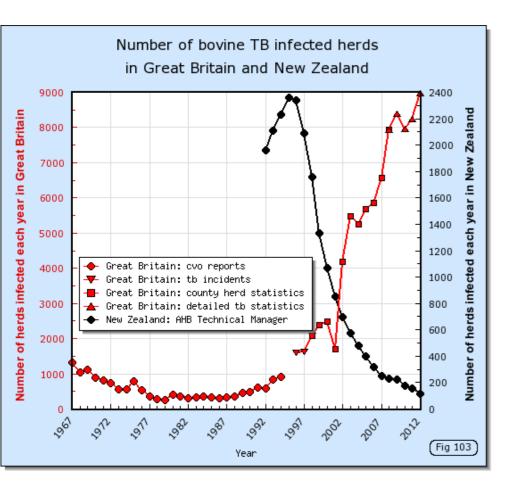
	Diallea	A bowbook of ol
	Pielke	Aberbach et al
Idea of separate world	Pure Scientist	Type I 'Policy-Administration'
Idea of politicians having values, technocrats with value-free expertise	Science Arbiter	Type 2: Value-Fact
Politicians wishing change, technocrats moderate	Honest Broker	Type 3: Energy-Equilibrium
Idea of merged world	Issue Advocate	Type 4: Pure Hybrid

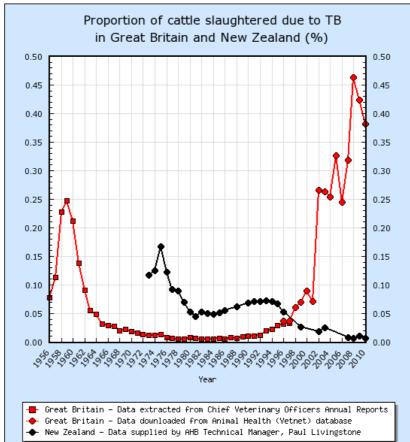
SCIENCE IN GOVERNMENT

Broad advice Direct advice Scientific Advisor Close coupling **Advisory Councils** Government-owned Government-Loose coupling research commissioned research 'responsiveness' 'leaning and buckling'?

SCIENCE IN POLICY (1)

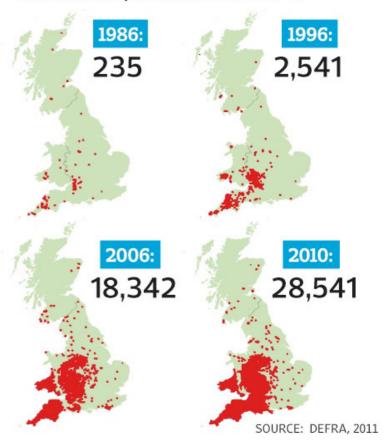






BOVINE TB SPREADING

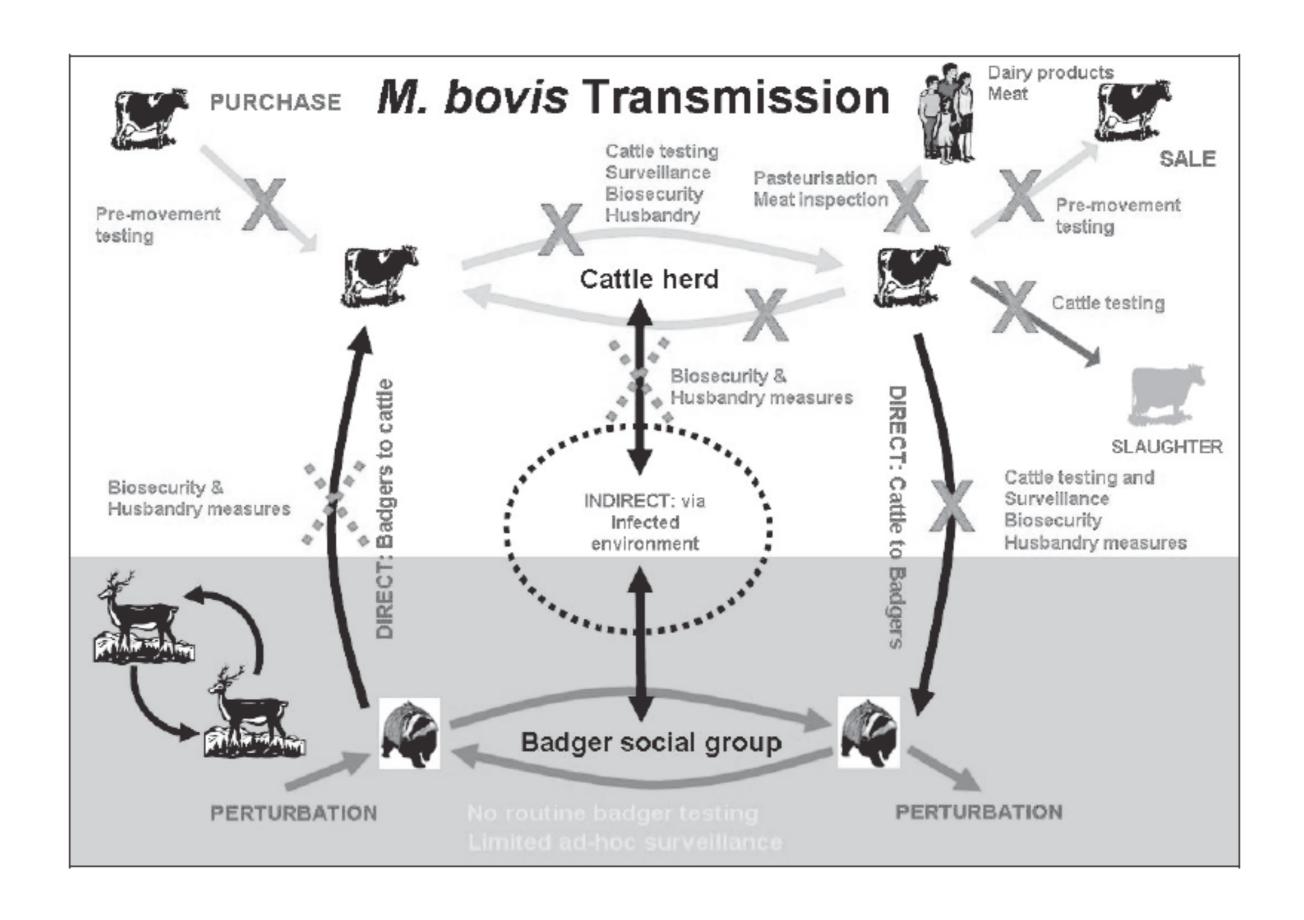
Cattle tested positive for bovine TB









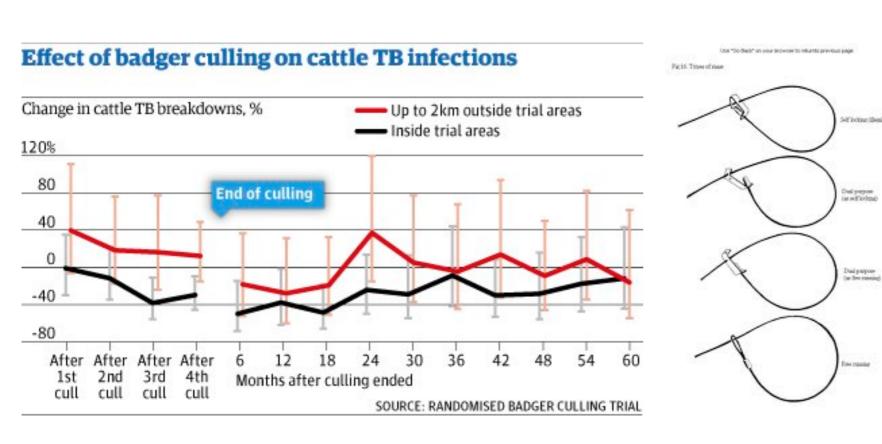


TIMELINE

- Residual TB in cattle
- Animal rights/humane legislation to protect badger
- Zuckerman (1979), Dunnet (1986), Krebs (1996) random control trial (10 years, £50m)
 - roll-out, foot & mouth outbreak
 - reactive vs proactive culling, perturbation effect
 - King review (2007) evolving knowledge
 - Labour vs Conservative governments
 - 2013 trials & 2014 announcement
 - Wales
- EU

SCIENCE & CONFLICT

10.92 Our overall conclusion is that after careful consideration of all the RBCT and other data presented in this report, including an economic assessment, that badger culling cannot meaningfully contribute to the control of cattle TB in Britain.





Role	Description	Example
Aggregation- Informational/ Translational	Collection of information for repackaging for policy audiences	POST notes
Aggregation - Analytical	Collection of information, analysis of relative strength of evidence	Reviews in Wales, UK
Policy Directed (Co-) Production	New scientific research specific to policy problems; may be funded by government, problems set out by interaction of scientists and policy makers (policy makers commissioning the work); scientists may be internal, external, or both	RBCT
Policy Options Analysis	Scientists devise and/or contribute to analysis of different options (technical feasibility/impact?); decision left to policy makers; scientists may be internal, external or both; problem is already specified	Work by internal policy team with government scientists (DEFRA)
Decision Making- Devolved	Science advising groups responsible for devising course of action/policy decision largely devolved to 'experts'; scientists independent/external	DEFRA decision-making involving
Advisory	Science advising groups give opinions (may do translational, analytical, and/or options analysis), devise recommendations, but no formal structure to include into decisions (analysis and opinions, no formal authority)	Hilary Benn's advisory panel; Animal Health and Welfare Board for England (AHWBE)
Gatekeeping	Scientists responsible for authorizing practices/products/etc within existing frameworks	
Challenge	Scientists given role of challenging political actors' decisions/positions (UK Science Advisors)	David King report
Evaluation	Use of scientists (internal or external) in evaluation of existing policies	Dunnet Report (1988), Krebs report, Godfray Review
Implementation	Scientists carry out policies	DEFRA staff used to trap badgers; DEFRA vets testing cattle
Policy Advocates	Scientists have no formal power, publicly advocate for particular policies; may	Various public letters (Woodroffe

SCIENCE AND POLICY 2





1080 AND MAMMALS

- Possum as main vector in spreading Tb
- ➤ Mammals as native animal killers
- ➤ 1080 as inhumane & mode of delivery
- ➤ Support by state and research actors fall in Tb & debate about appropriateness in supporting native wildlife
- response to concern: formal enquiries and additional research, strengthened support for 1080
- ➤ lack of 'independent' knowledge generation, restricted use 'regulatory knowledge application' not 'honest brokering'

SCIENCE AND POLICY (3)





INVASIVE ALIEN SPECIES

- ➤ Rio Declaration
- ➤ 'Failure' of international processes (Geneva)
- Development of EU policy
 - ➤ framework funding for database
 - national initiatives
 - development of 'assessments' the 'list' and 'scientific' and 'management' stages in decision-making
 - > what is 'invasive' & feasible
 - ➤ ossification (?)

IMPLICATIONS

- Faustian Pact may work in 'real world' not helpful for research
 - role of 'scientist' and 'science-based': bespoke knowledgegeneration, wider knowledge, implicit knowledge
- > Research & Practice: worlds of knowledge-generation and policy action
 - ➤ knowledge generation: what are the conditions in which knowledge is generated
 - ➤ policy action: what are the conditions under which authoritative decisions about political and administrative feasibility are being taken
 - under what conditions do certain scientists shape systems
- What is best in world 'knowledge generation'