

Tipping Towards Sustainability

Social Innovation in linked socialecological systems

The challenges now facing adaptive ways of dealing with novelty and uncertainty are not scientific or methodological, but institutional, organizational, behavioral, and political – C.S. Holling

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The Central Question

- Can we find innovative solutions to the linked, intractable social and ecological problems we are confronting?
- A report of emerging frameworks for understanding how social innovation occurs in complex adaptive systems.





Human capacity to innovate is undeniable. But our faith in the "technical fix" may be misplaced

INNOVATION CAN DO AS MUCH HARM AS GOOD.

Lane et al. 2009

Innovation has unanticipated consequences and our ability to predict these is weak particularly at the level of complex systems (Homer Dixon, 2000)

Biomass technology=

Decrease in food security, biodiversity, human rights

11. Technological Governance: Recognizing that the new tools of biomass transformation such as synthetic biology are just part of a suite of powerful new technologies at the nanoscale that have vast applications for the economy and the environment, governments meeting at Rio+20 should adopt a negotiating process that will lead to a legally-binding International Treaty for the Evaluation of New Technologies (ICENT). This treaty should allow for the monitoring of major new technologies by governments and all affected people.

Etc. Group, 2010



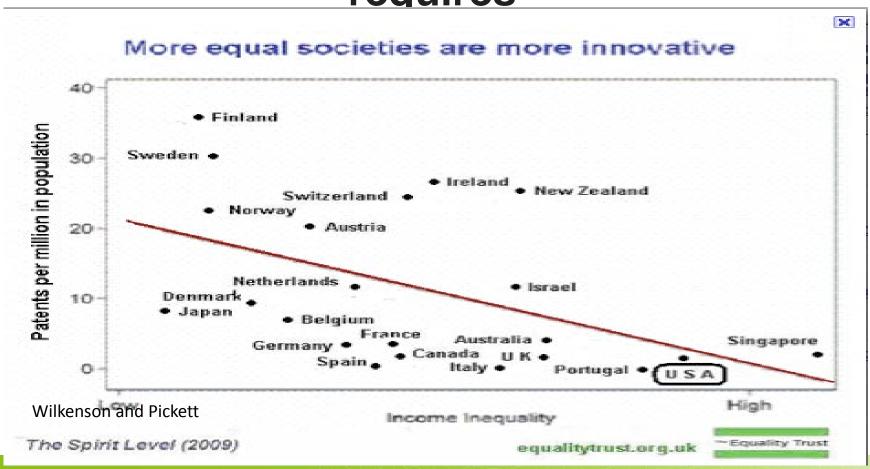
Our institutions do not encourage or reward private sector innovation for sustainability

(Hall and Vredenburg, 2003)

- On the Folly of Rewarding A, While Hoping for B
- by: <u>Steven Kerr</u>
- The Academy of Management Journal, Vol. 18, No. 4. (December 1975), pp. 769-783.



There is a tension between our individual desire for ever increasing standard of living and the social capacity for innovation it requires



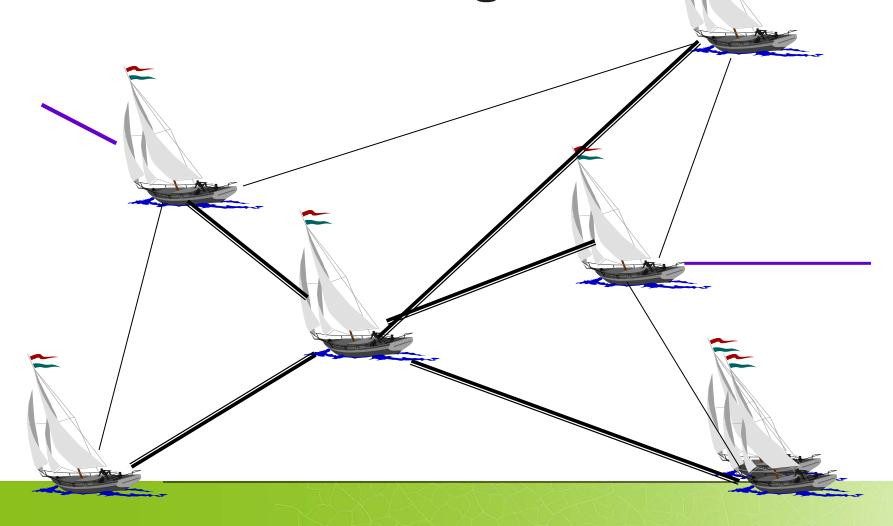
What complexity science tells us about radical innovation and transformation in complex problem domains

BUT INNOVATION IS ALSO OUR HOPE





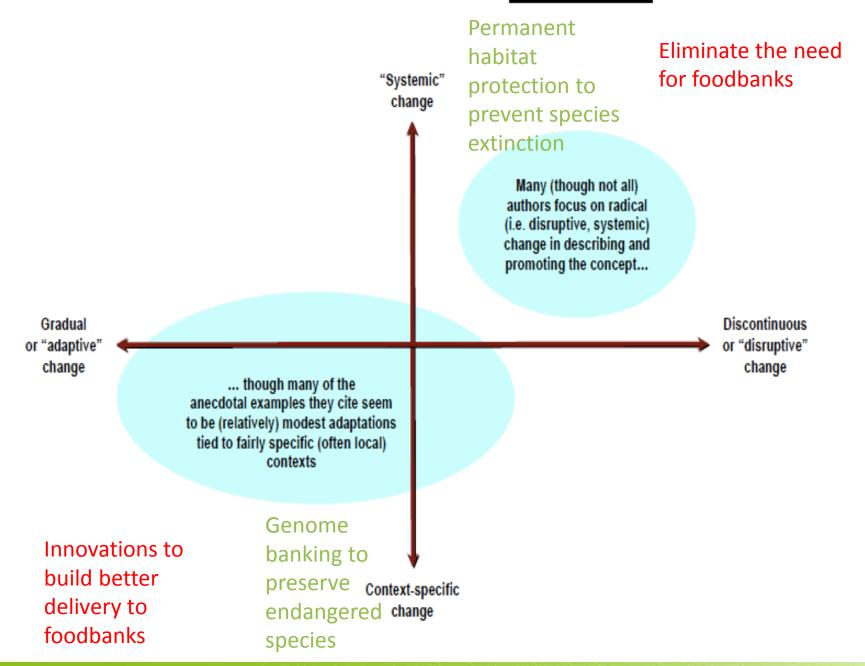
Why do we need system thinking to address megamesses?

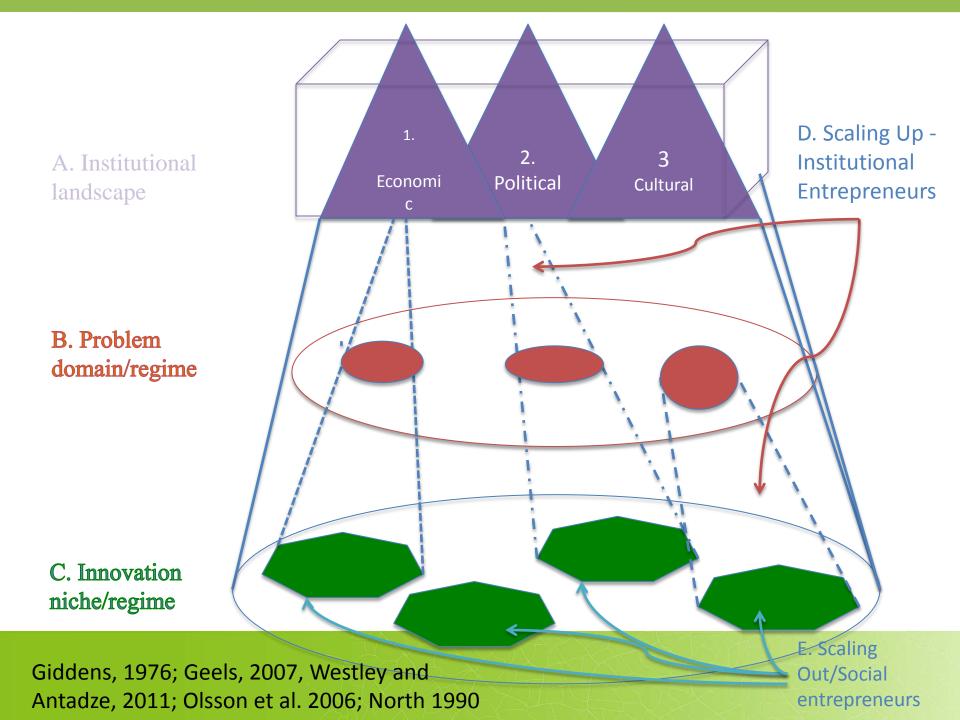


Changing the system dynamics that created the problem in the first place

A social innovation is any initiative, product, process, program or design that challenges and, over time, changes, the defining *routines, resource and authority flows or beliefs* of the broader social system in which it is introduced. Successful social innovations have durability, scale and transformative impact.

What constitutes a social "innovation"?





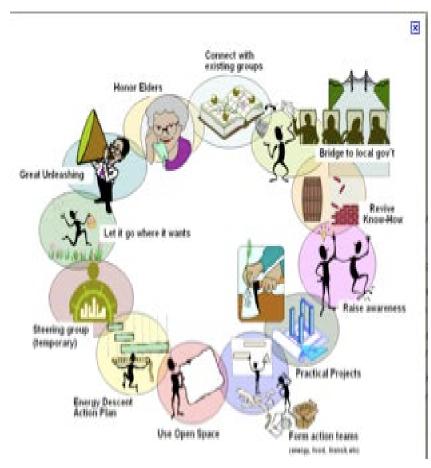
Risk of taking only a top-down policy solution perspective

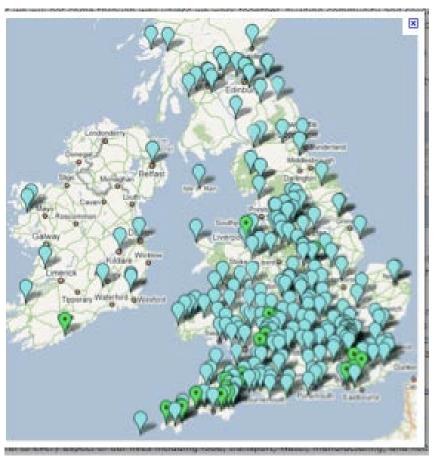






Risk of counting on bottom up emergence alone: the Transition Town Movement









The central role of opportunity and of agency

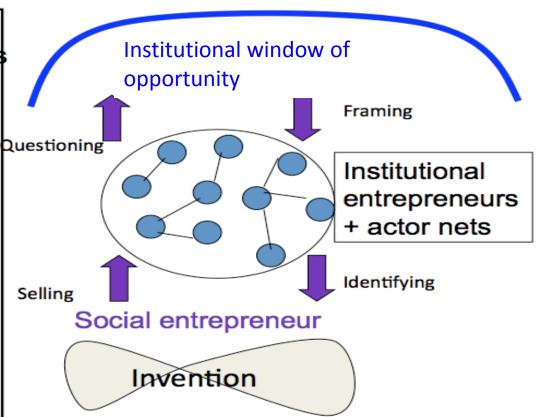
Political institutions
Economic institutions
Cultural institutions
Legal institutions



Problem Domain/ Regime

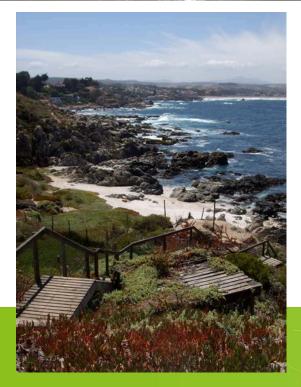


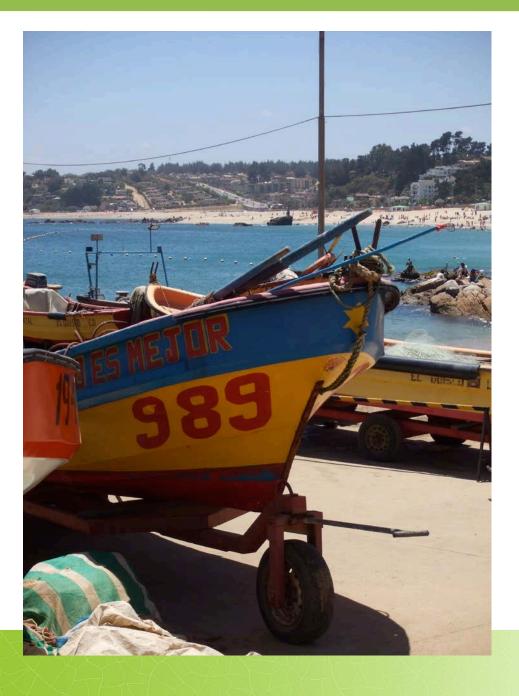
Local community/ organizational system



















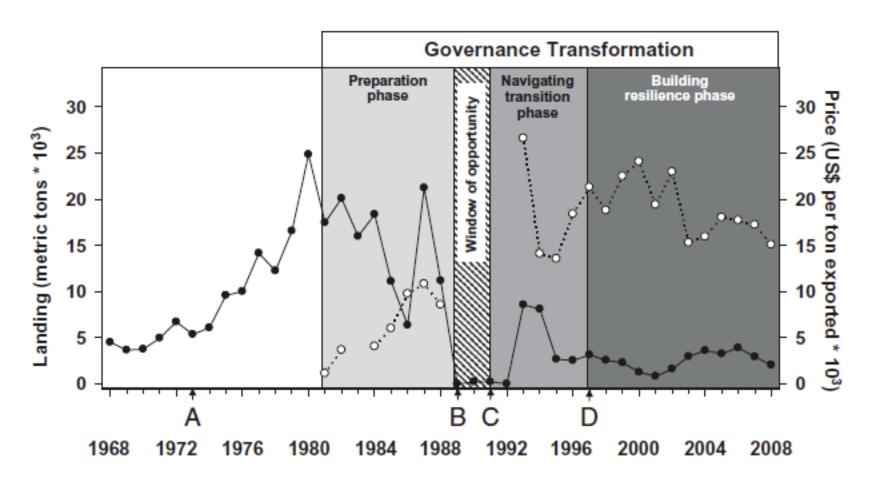


Less desirable social-ecological system

More desirable social-ecological system



Navigating transformations in governance of Chilean marine coastal resources



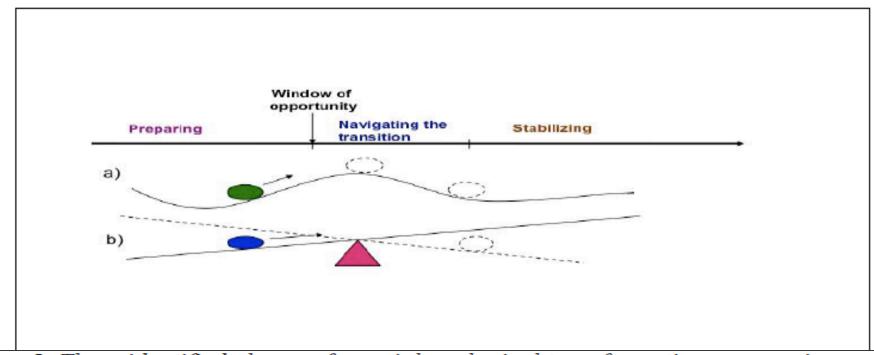
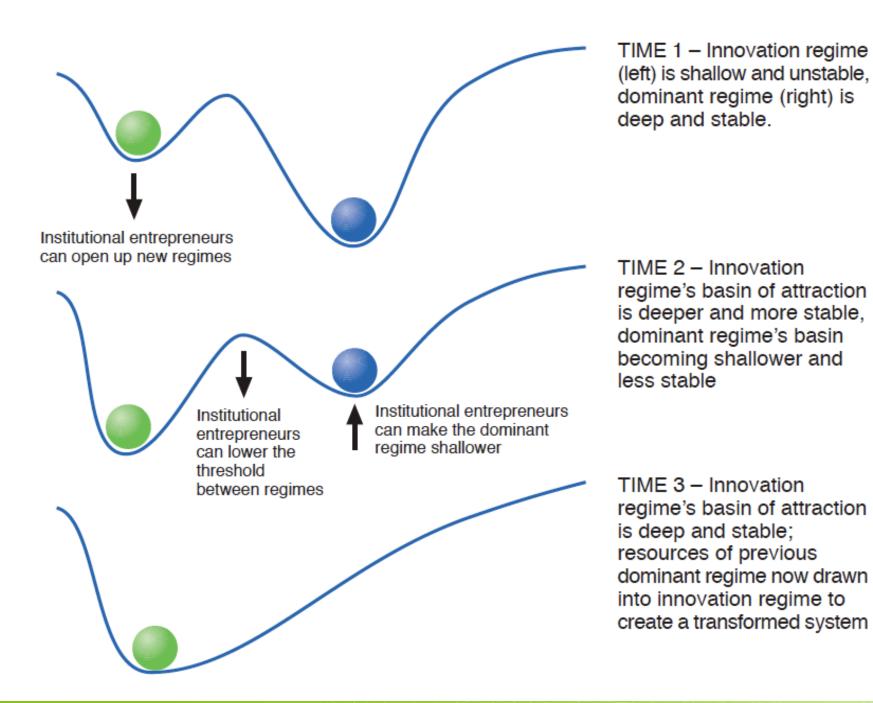


Figure 5: Three identified phases of a social-ecological transformation — preparing for transformation, navigating the transition, and building resilience of the new direction. A window of opportunity links the first and second phases. The transformation is illustrated in two ways: a) as a regime shift between multiple stable states, passing a threshold or b) as a tipping point (adapted from Olsson et al 2010).



Example . Plan Canada and the RDSP

- "Every innovation has two parts: the first is the invention of the thing itself; the second is the preparation of expectations so that when the invention arrives it seems both surprising and familiar -something long awaited" Edwin Land
- The social innovators
- The institutional entrepreneurs



everything you wanted to know about the RDSP....



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Impact, Durability and Scale

 How can the processes and values of PLAN become part of the 'water supply'?



 How can alterations of culture, practice, policy and funding contribute to structural change?



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RDSP

Registered Disability Savings Plan

SECURING THE FUTURE

HOME | WHAT IS IT? | HOW DO I QUALIFY? | WHERE DO I GET IT?

RDSPCALCULATOR DOWNLOAD v1.0

The Registered Disability Savings Plan is a savings plan designed specifically for people with disabilities in Canada. The first of its kind in the world, this new tax-deferred savings vehicle will assist families in planning for the long - term financial security of their relatives with disabilities.

WHAT IS IT?

Find out everything you need to know about the new Registered Disability Savings Plan.

HOW DO I QUALIFY?

Find out how to qualify and set up a Registered Disability Savings Plan.

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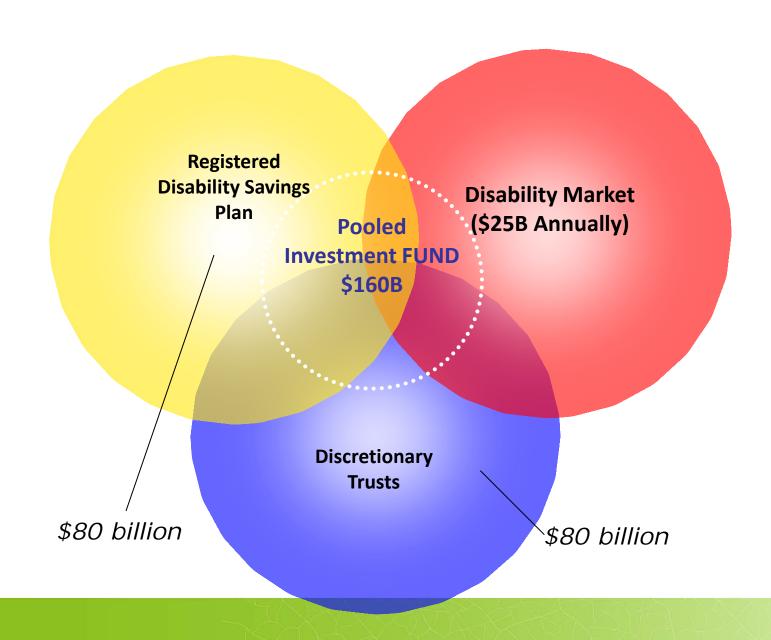


WHERE DO I GET IT?

Find out where to get a Registered Disability Savings Plan and how it affects your Federal and Provincial Disability Benefits.

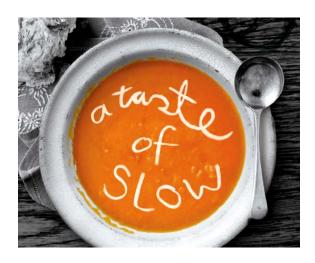
Registered Disability Savings Plan

- Impact: 800,000 individuals and families
- \$200,000 lifetime contribution limit
- Matching Disability Savings Grant
- Disability Savings Bond for low income
- Disability Benefits implications:
 - Raise asset limit
 - Eliminate claw back
- Opens space for new set of innovations



Thinking and Acting Like a Movement

- Multiple actions, time frames, scales and levels of engagement
- Commitment to multi-sectoral collaboration
- Self-organizing



Framing

- Creative framing and sharing of ideas, processes, people and resources
- Codifying systematizing
- Making it easy to do the right thing



Utilizing Market Forces

- Understand economic and social assets of constituency
- Influence the operational practice of business
- Access new sources of capital



In sum: social innovation

- Is more than the viability and survival of an innovation, organization or coalition
- Means being intentional about:
 - Structural, institutional, systemic and legislative change
 - Cultural and attitudinal shifts

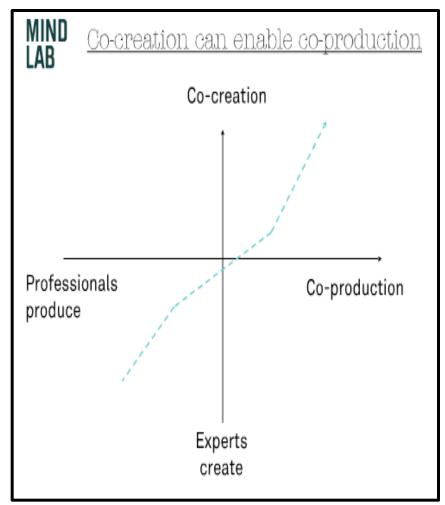
Building Capacity for "Scaling Up"

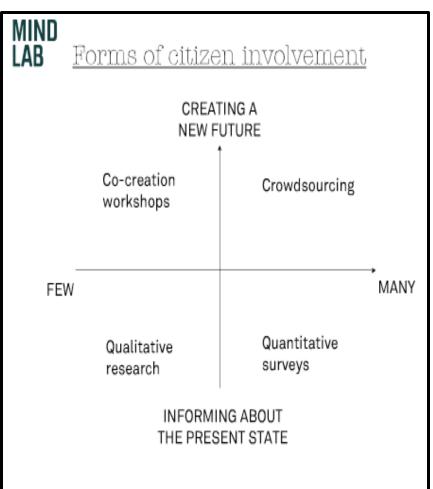
- Continuous refinement of system understanding and identification of leverage points
- Building partnerships with those with system change experience
- Finding and creating resources for escalating change
- Building a movement for change: changing and refining definitions and motivations
- Strategic conversations to bring elements together at higher institutional levels, while concentrating the essence
- Identifying opportunities to leapfrog, taking advantage of the emergence of tipping points and opportunities





$E.D. = Q \times A$







Precise

Bold

Elitist



Olafur Eliasson; The Weather Project

We are scientific and technological revolutionaries and institutional and political conservatives

- Charles Leadbeater