Sustainabiltiy Transition Governance

Dr. Flor Avelino, GLOCAL, Cascais, 3 July 2013





Dutch Research Institute for Transitions





zafing

www.drift.eur.nl www.transitionsnetwork.org www.ksinetwork.nl

POWER IN TRANSITION

Empowering Discourses on Sustainability Transitions

Flor Avelino

On-going Research

self-organisation by civil society citizens & social entrepreneurs

grassroots innovations social innovation

eco-community initiatives social movements



why? (un)sustainable development

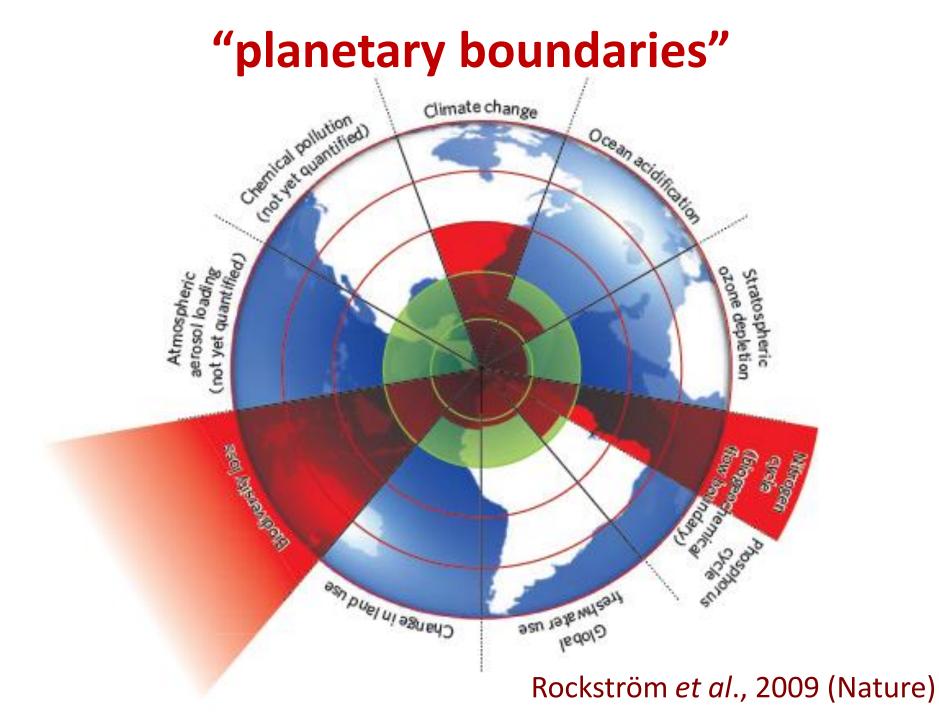
what are transitions?

complex system thinking

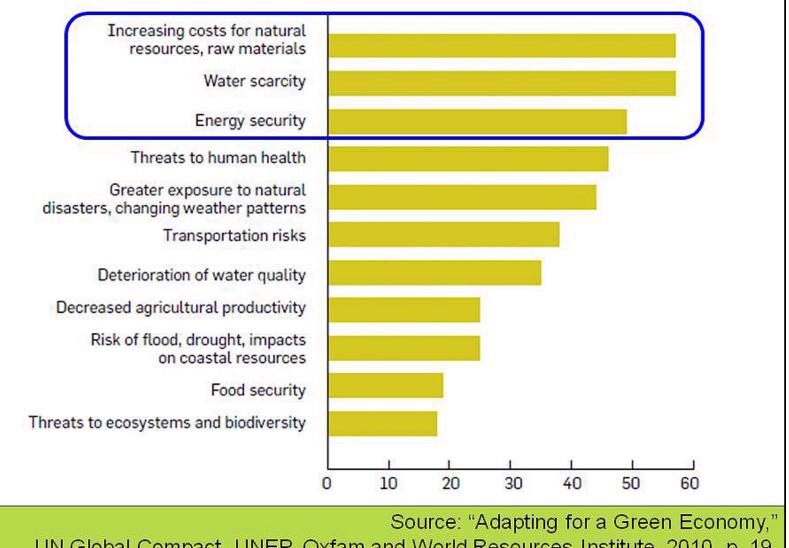
transition governance

governance by who? empowerment

why? (un)sustainable development



Climate Change-Related Risks



UN Global Compact, UNEP, Oxfam and World Resources Institute, 2010, p. 19.

sustainable development

balancing the social, ecological, and economic

- people, planet, profit ('Triple bottom line')
- "... development that meets the needs of the present without compromising the ability of future generations to meet their own needs…"
 Brundtland Report UN 1987

future generations



multiple "crises"...



"solutions" ...?

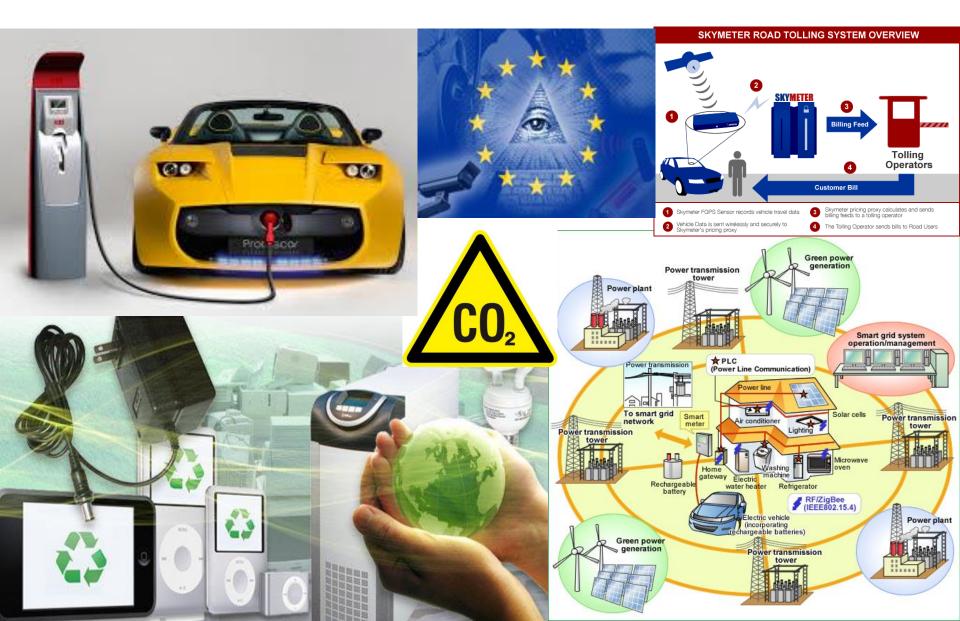
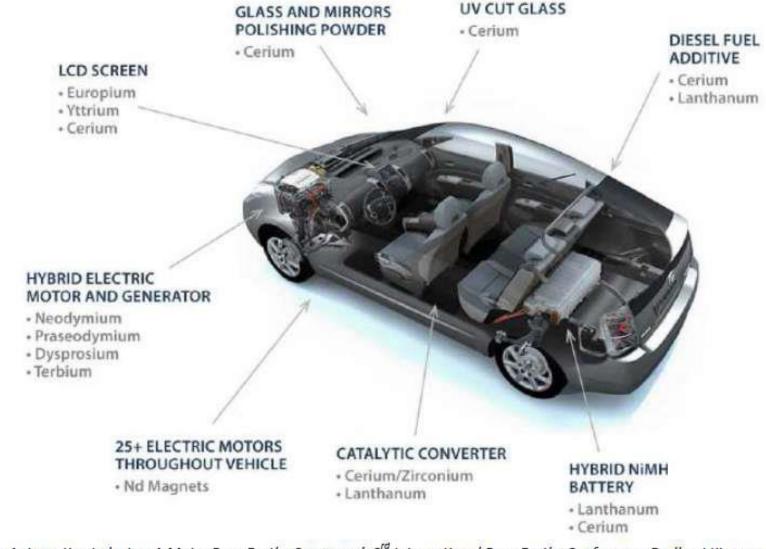
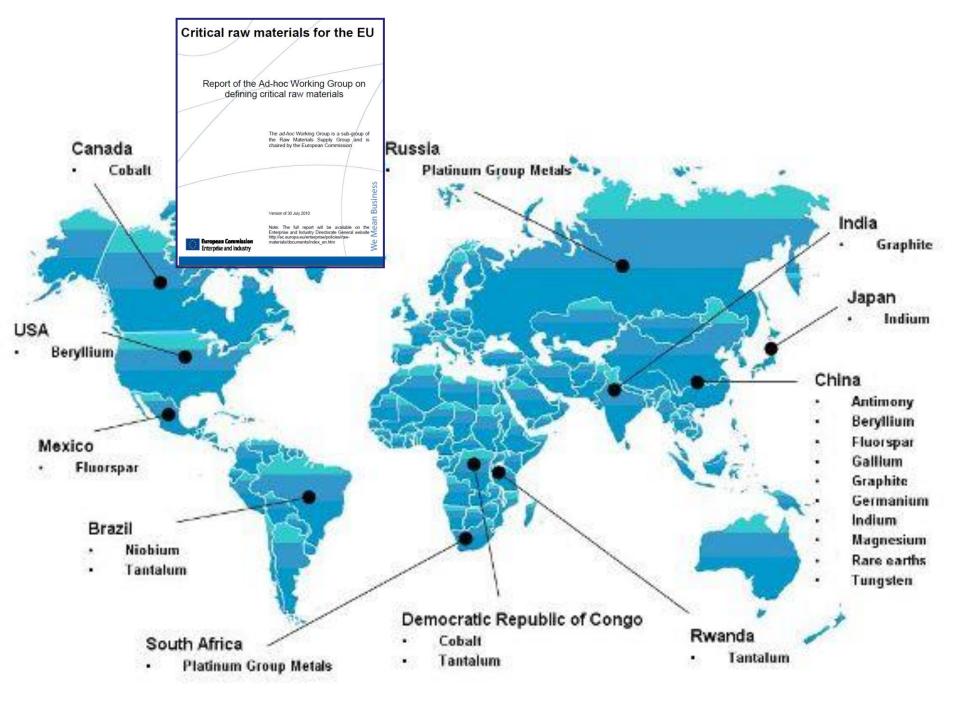


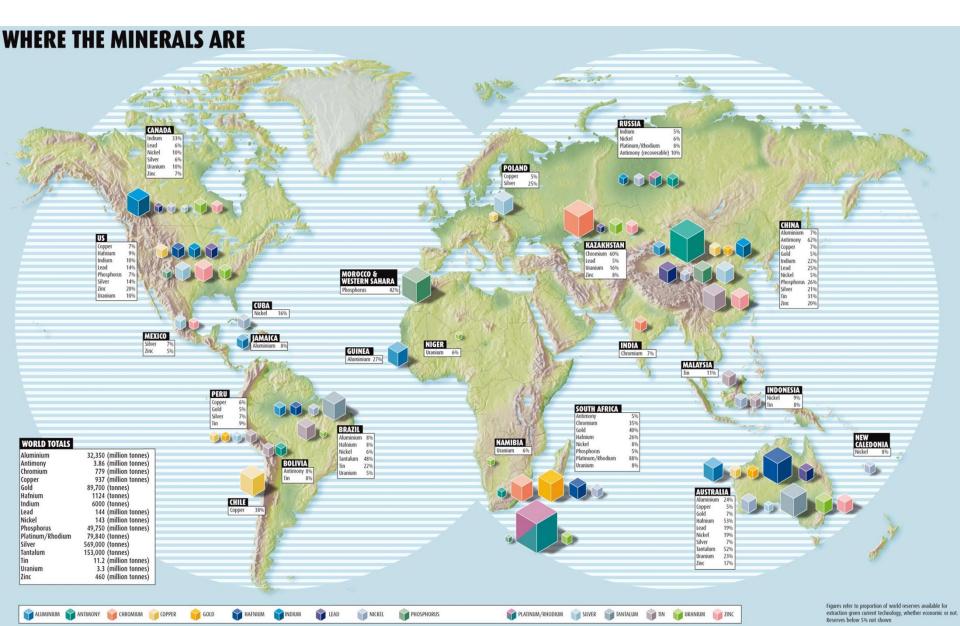
Figure 15: Rare Earth applications in a hybrid



Source: 'The Automotive Industry: A Major Rare Earths Consumer', 3rd International Rare Earths Conference, Dudley J Kingsnorth, November 2007



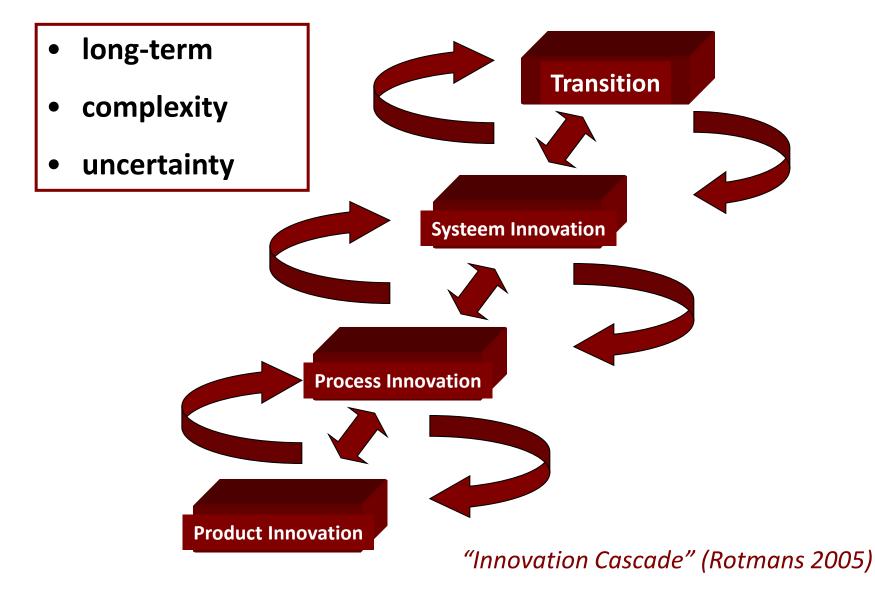
geo-political dependence



WECANNOTSOLVEOUR PROBLEMS WITH THE SAMETHINKING WEUSEDWHENWE CREATED THEM -Albert Einstein

transitions

what is a transition?



definition (sustainability) transitions

Transitions ≈

- long-term process (1-2 generations, 20-50 years)
- radical and structural change
- high levels of complexity and uncertainty

Sustainability transition ≈

- "radical transformation towards a sustainable society"
- "response to persistent problems in modern societies"

(Grin, Rotmans and Schot 2010)











CARSHARE



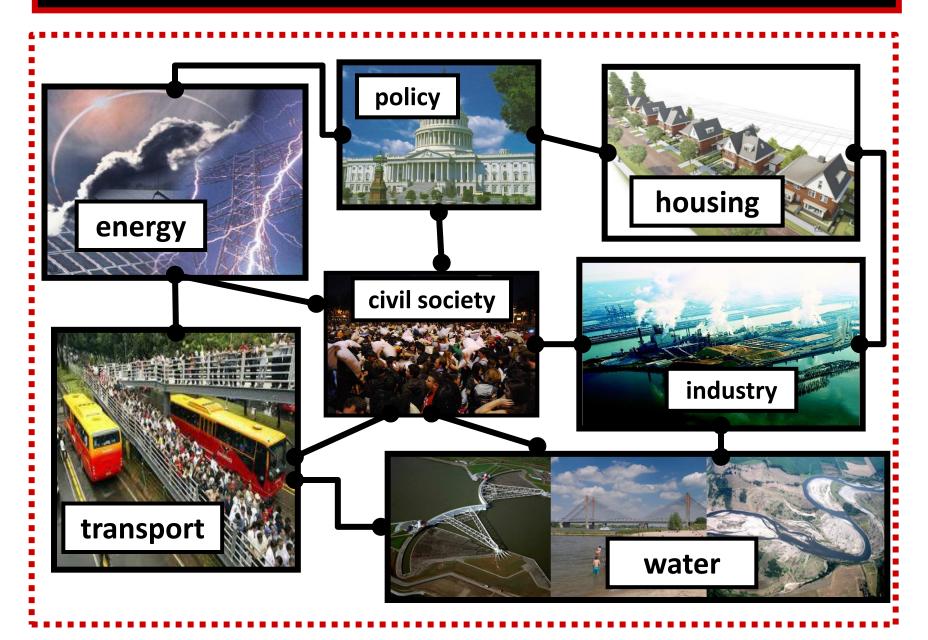
complex system thinking

Object of study in transition studies ≈ **societal** systems

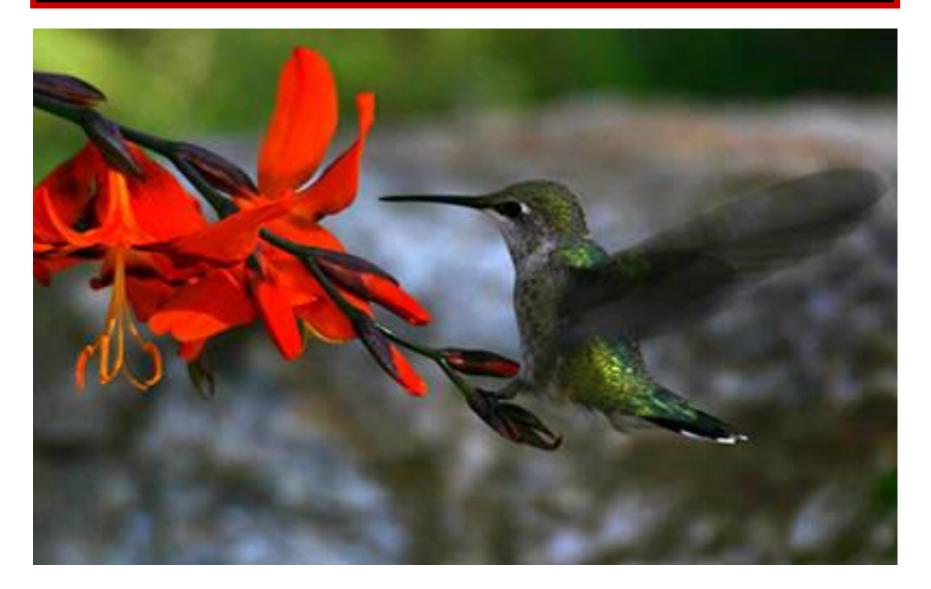
- **sectors** (e.g. mobility, energy, water)
- regions (e.g. Algarve, Serra da Estrela)
- cities/towns (e.g. Lisboa, Porto, Cascais)
- districts (e.g. Bairro Alto, Expo, Centro)

complex adapative systems

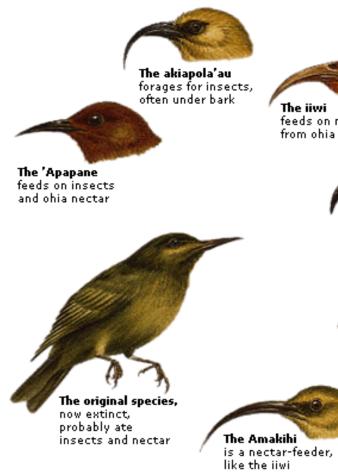
a city as a complex adaptive system



co-evolution



variation & selection





from ohia flowers



The Maui parrotbill tears back bark in search of beetles



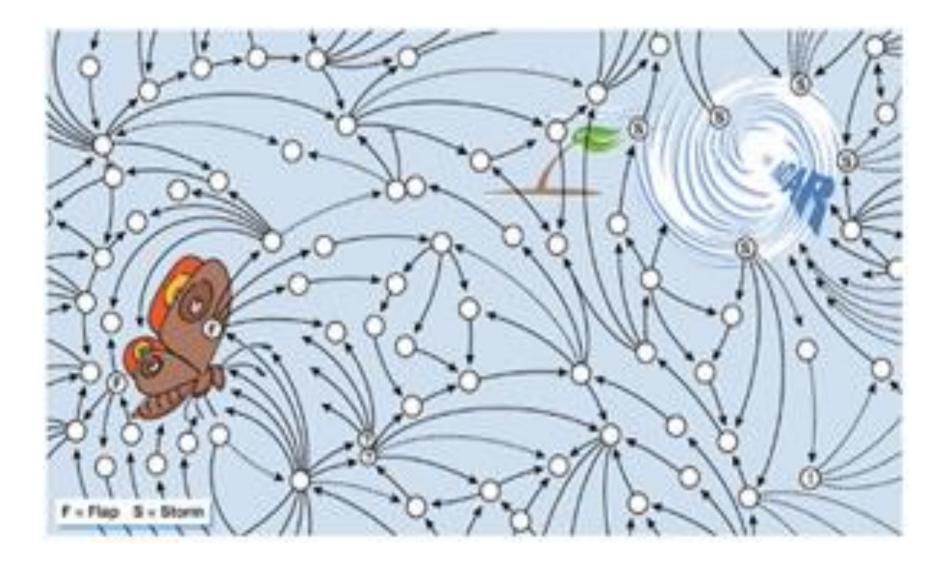
The Nihoa finch uses its heavy bill to crush seeds

"Survival of the fittest" ≈

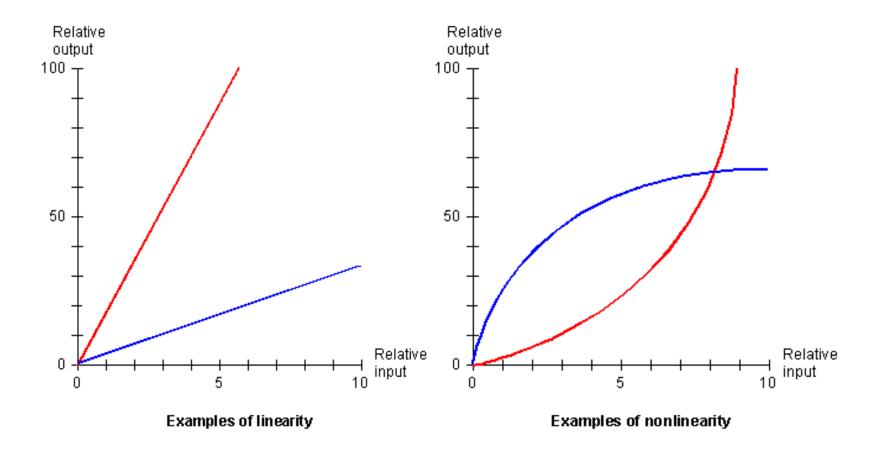
species that are best adapted to their (changing) environment

also applies to ideas, technologies, systems

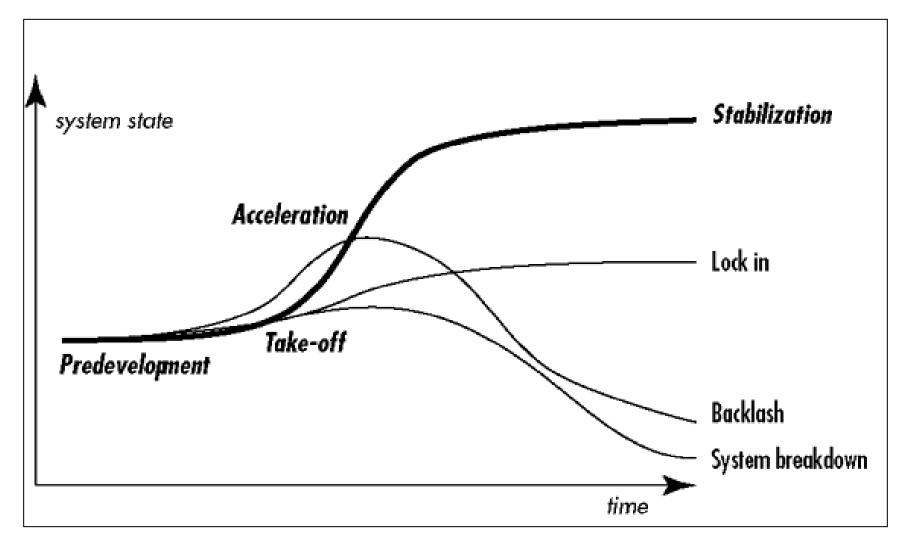
the "butterfly effect"



non-linearity



transitions = non-linear

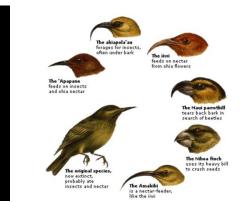


Rotmans 2005

properties of complexity

- interdependencies
- co-evolution
- variation and selection
- non-linearity
- uncertainty





... wat does this mean for human action?



transition governance

complexity and evolution

means...

- society cannot be 'managed'
- societal change cannot be planned
- effect & cause = uncertain and unpredictable

but also ...

- a small intervention can make a very great difference
- power of diversity => learning and experimenting
- insight into the long-term dynamics of societal systems

"new mode of governance for sustainable development"

(Loorbach 2007, 2010, Loorbach & Rotmans 2010, Grin 2010)

can **NOT** 'command and control' transitions, but:

- trigger & accelerate transitions by
- playing into existing dynamics of change in society
- taking complexity as an opportunity

philosophy of transition governance

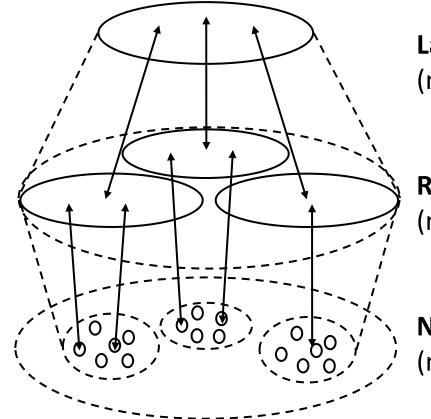
different transition governance approaches:

- "transition management" (e.g. Loorbach, Rotmans)
- "strategic niche management" (e.g. Raven, Schot)
- "reflexive governance" (e.g. Grin, Voss)

commonalities of the underlying philosophy:

- 1. multi-level perspective
- 2. two-track strategy
- 3. participatory process

multi-level perspective

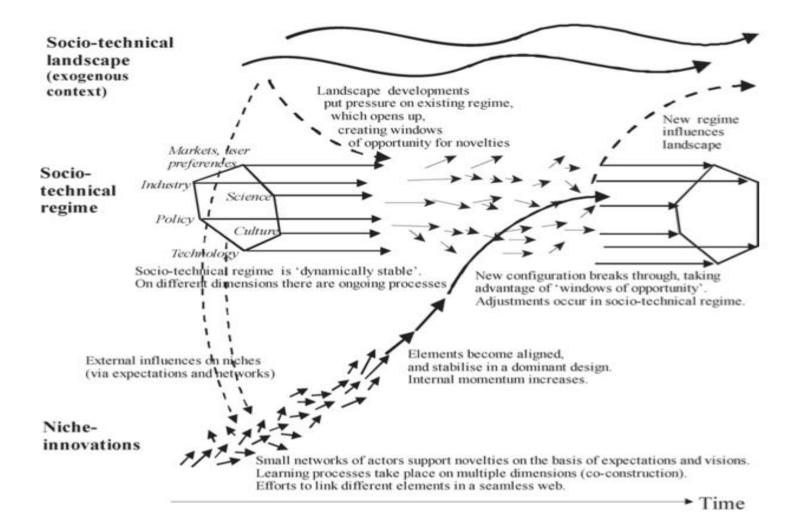


Landscape (macro-level) exogenous macrodevelopments

Regimes (meso-level) *dominant structures & institutions*

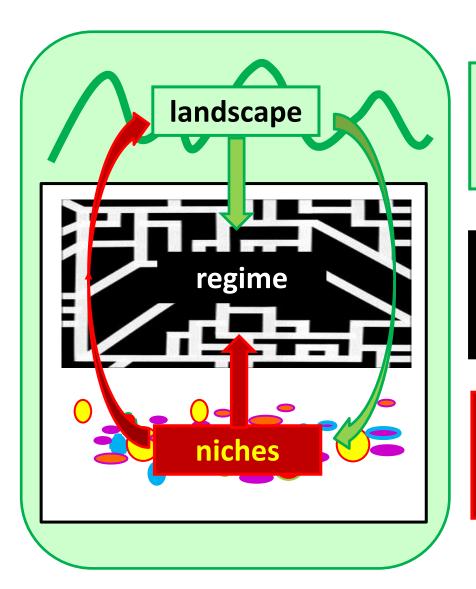
Niches (micro-level) spaces for innovation

Geels & Kemp 2000



Geels 2010

Example Energy



globalisation, climate change, environmental awareness, worries about geo-political dependence

fossil fuel regime: oil companies, governments with fossil interests, mainstream energy consumption

solar energy, wind energy etc. energy saving practices, low carbon life-styles

multi-level strategy for transition governance

top-down & bottom-up pressure on regimes

• playing into landscape developments

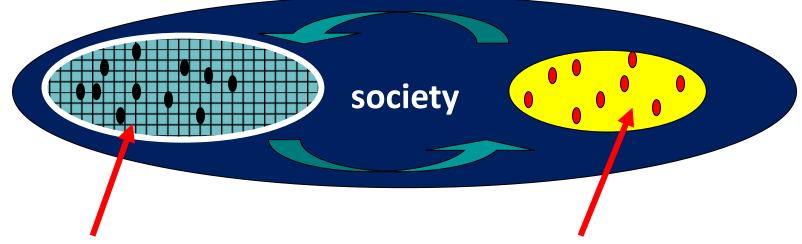
 protecting, nurturing and empowering niches (Smith & Raven, 2012)

two-track strategy

• does **NOT** replace other types of governance (!)

- parliamentary processes
- laws and regulations
- risk- and crisis-management
- project management
- transitions is **NOT** a revolution
- "more evolution than revolution" (*Rotmans et al. 2001*)
- joining in with dynamics rather than forcing changes

two-track strategy



regular governance

- Short term
- Incremental change / optimization
- Pre-given problem and goal
- Implementing proven solutions
- Aggregative, formal democracy

regular policy arena

transition governance

- Long term
- System innovation
- Problem- and goal searching
- **Experimenting** new approaches
- Radical, informal democracy
 - > "transition arenas"

transition management & transition arenas

organising **transition arenas** ≈

- network of sustainability pioneers
- different backgrounds

develop **alternative**, **action narratives** ≈

- make participatory system analyses
- develop future sustainability visions
- conduct transition experiments

combine **reflection**, **vision** and **action strategic**, **tactical** and **operational** approaches



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InContext Final Conference & Informed Cities Forum 2013 present:

How to create space for change? Rediscovering the power of community

On 6 - 7 June in Berlin (Germany)







What we do?

What is a transition? What is transition research? Can transitions be managed? Who are the Drifters? Find out more about the Dutch Research Institute for Transitions (DRIFT) by clicking the infosign.



Featured Course

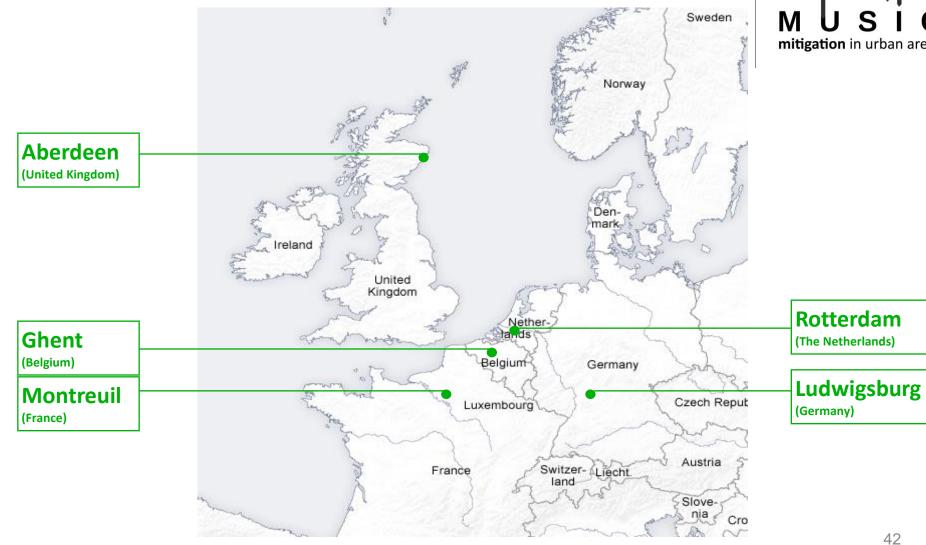
In samenwerking met Erasmus Academie organiseert DRIFT de Masterclass Transitiemanagement, een postacademisch leertraject met transitie-experts uit heel Nederland.



Featured publication

Since 2012 Drift started their brand new Essayseries. Take a look at the first contributions on the state of transition studies, the social economy and transitionpolitics.

MUSIC project www.themusicproject.eu







November 2012

REPORT

Transition Management in Urban Context

Guidance manual - collaborative evaluation version

This report is aimed at inspiring and guiding city officers who work on creating a sustainable future of their city. It introduces Transition Management, a governance approach that aims at influencing the pace and direction of societal change dynamics. It illustrates the approach by experiences from five European cities. This is a collaborative evaluation version. You can contribute by sending your feedback.

Authors Chris Roorda Niki Frantzeskaki Derk Loorbach Frank van Steenbergen Julia Wittmayer



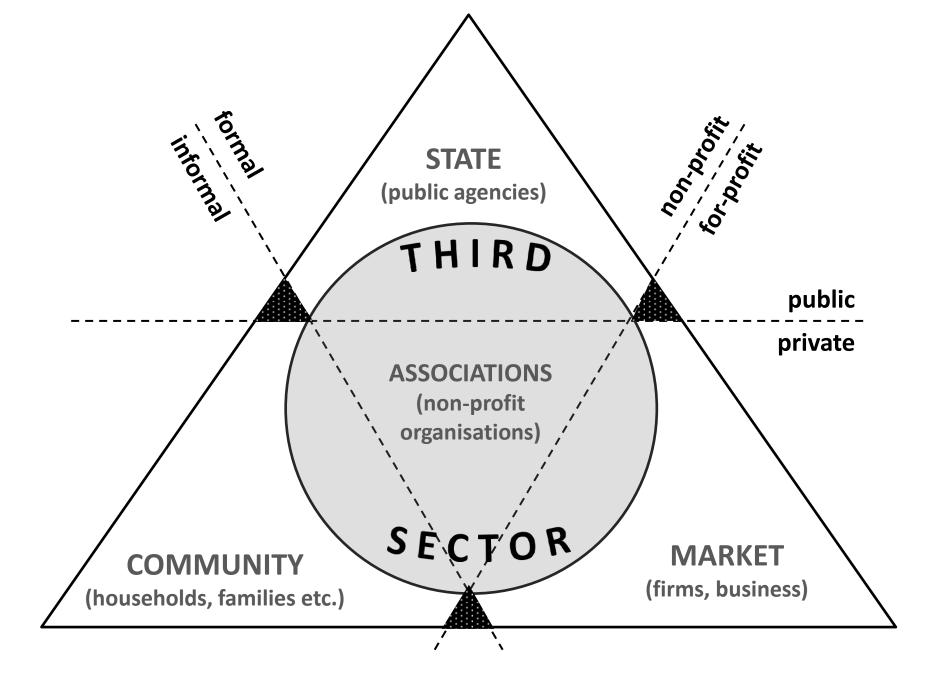
LINK:

http://www.drift.eur.nl/wpcontent/uploads/2012/05/DRIFT-MUSIC-Transition-Management-In-Urban-Context.pdf

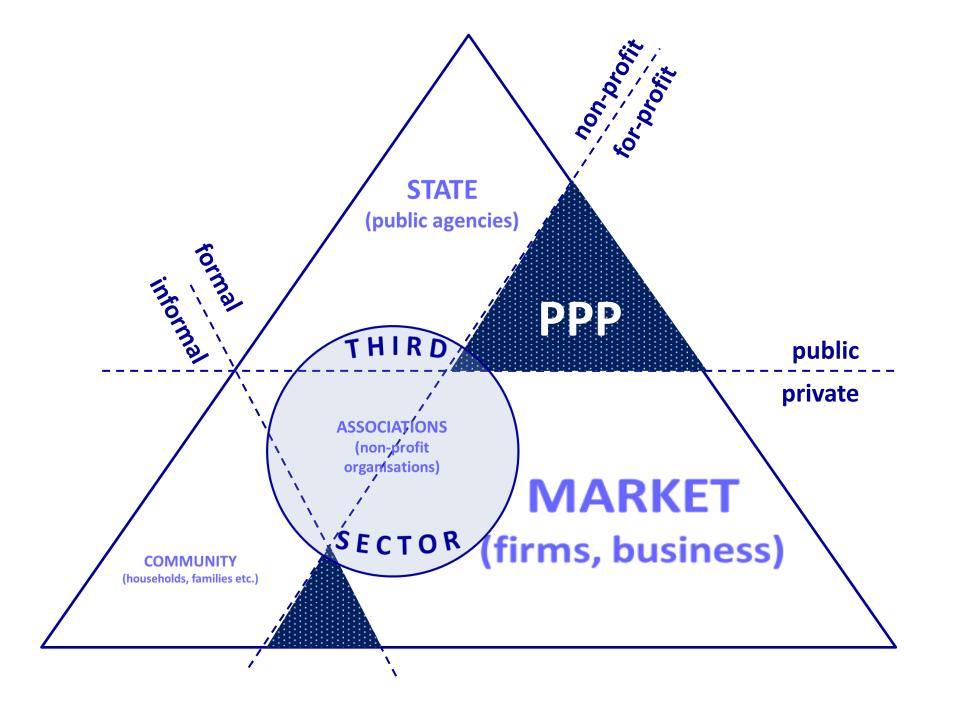
participatory process: govern**ance** ≠ govern**ment**



empowerment



Avelino 2013, based on Evers & Laville 2004, Pestoff 1992



The Times They Are a-Changin'...?





ENERGY COOPERATIVES







CROWD FUNDING/ CROWD SOURCING

FF Don't start a crowdfunding campaign without it! **JJ** - Brian Fargo, Creator, Wasteland 2

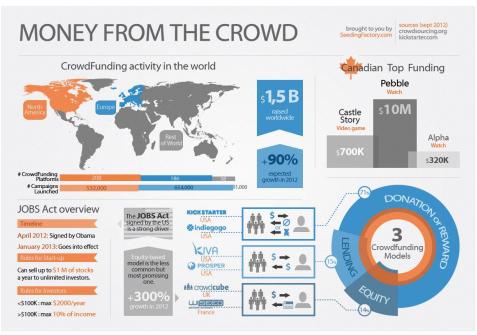


HOW TO RAISE MONEY FOR ANY STARTUP, VIDEO GAME, OR PROJECT

> By SCOTT STEINBERG

Edited by JON KIMMICH



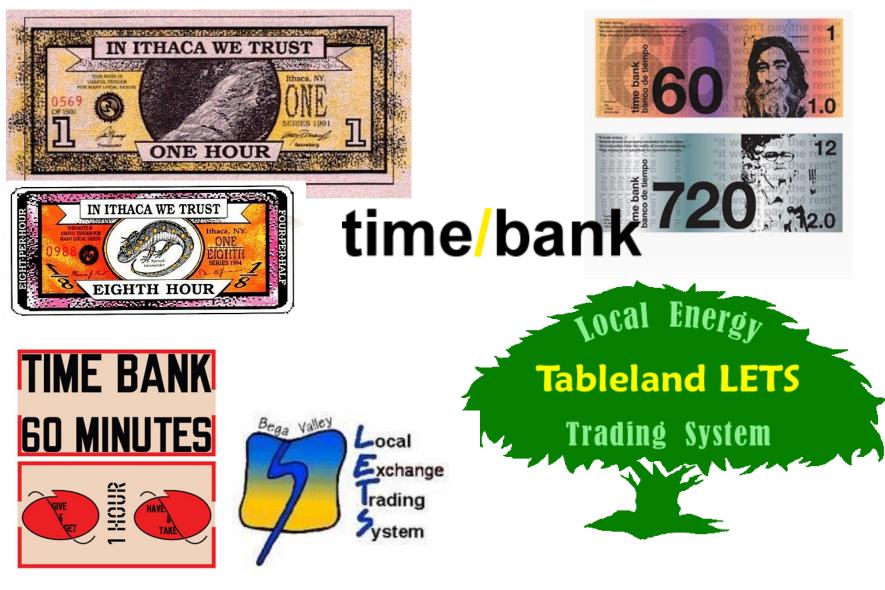




Fred, Cindy, or Lou? What ever your name, get a vine named after you!

Foreword by ERIC MIGICOVSKY, Creator, Pebble: E-Paper Watch

COMPLEMENTARY CURRENCIES



ADVANTAGES/ AIMS COMPLEMENTARY CURRENCIES

1. hold on to local investements

- 2. stimulate desirable products/ services
- 3. anti-cyclical effect > mainstream economy
 - compensate 'market failures'
 - unemployment & socio-economic exclusion
 - *increasing the scope of the informal economy*

LOCAL MONEY [COMPLEMENTARY CURRENCIES]



To begin using the B£ all you need to do is

DESIGN

TECHNOLOGY LIVING TRANSPORTATIO

City's Local Currency Is Accepted for Paying Taxes



ALL.

Sami Grover Business / Corporate Responsibility February 16, 2012

reehugger



WORLD'S FIRST LOCAL E-CURRENCY LAUNCHES IN BRIXTON, LONDON



LOCAL CURRENCY CAUSES A STIR IN LONDON: THE





From being <u>voted the UK's greenest city</u> to an <u>awesome wood recycling</u> <u>project</u>, my old home town of Bristol, England, has a lot going for it. It's latest innovation is particularly worthy of note. The BBC reports that <u>Bristol is</u>





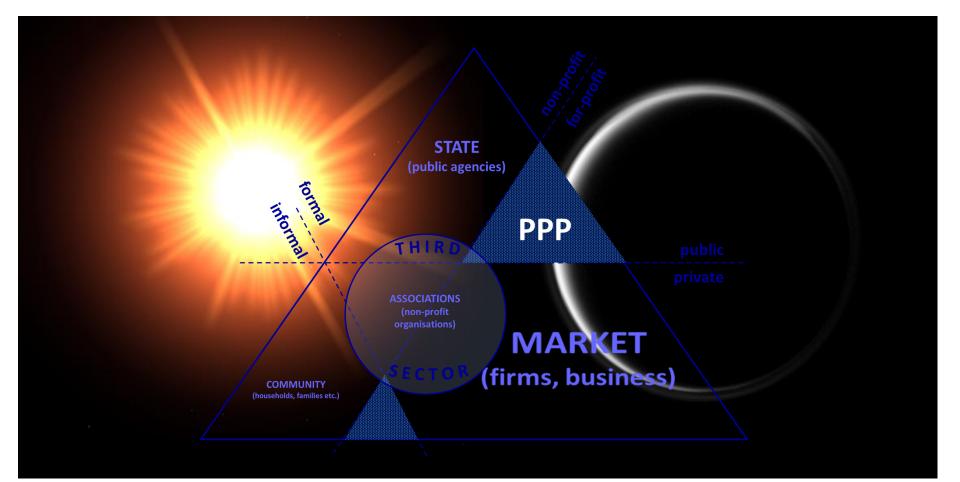


ade for Bristol. It nt businesses in multiplying the rdinary people

cations.

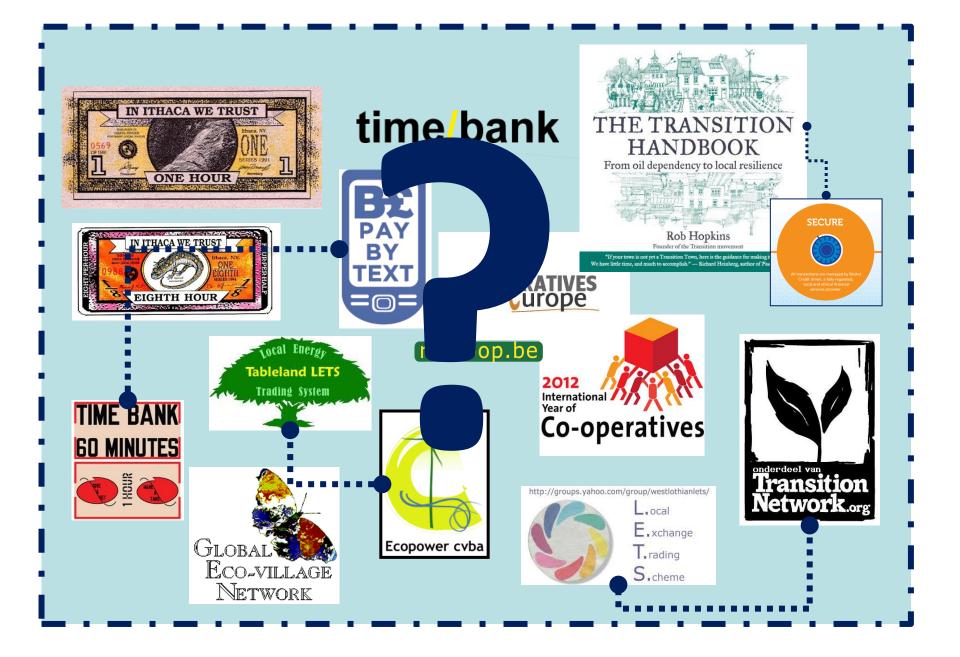
Design our currency!

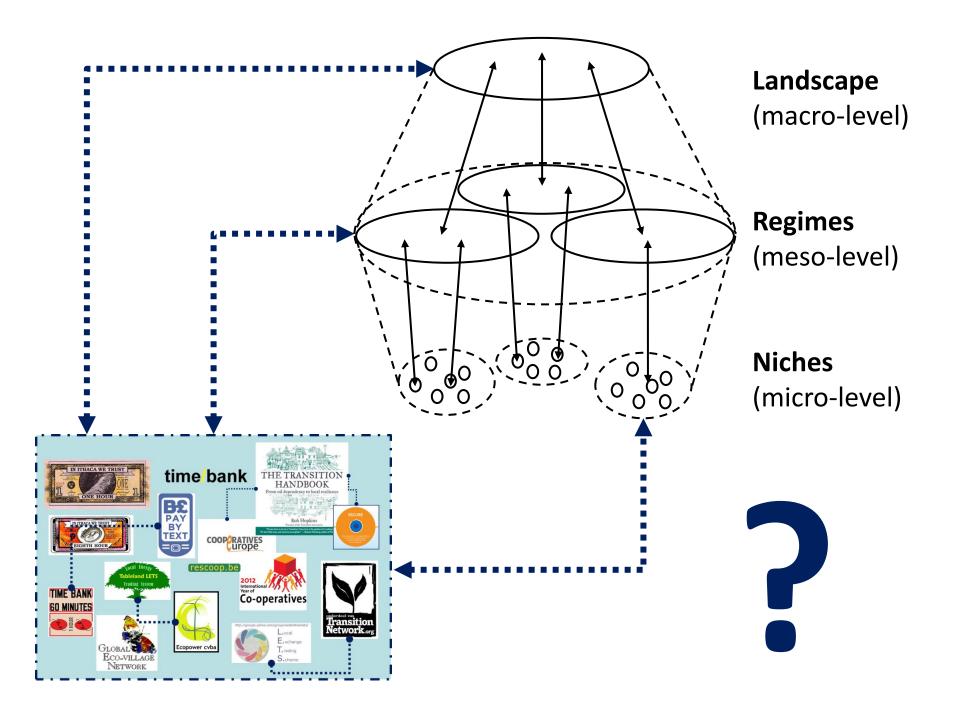
Bristol is one of the most creative cities in the country, which is why we're offering you the chance to see YOUR artwork on a Bristol Pound note...

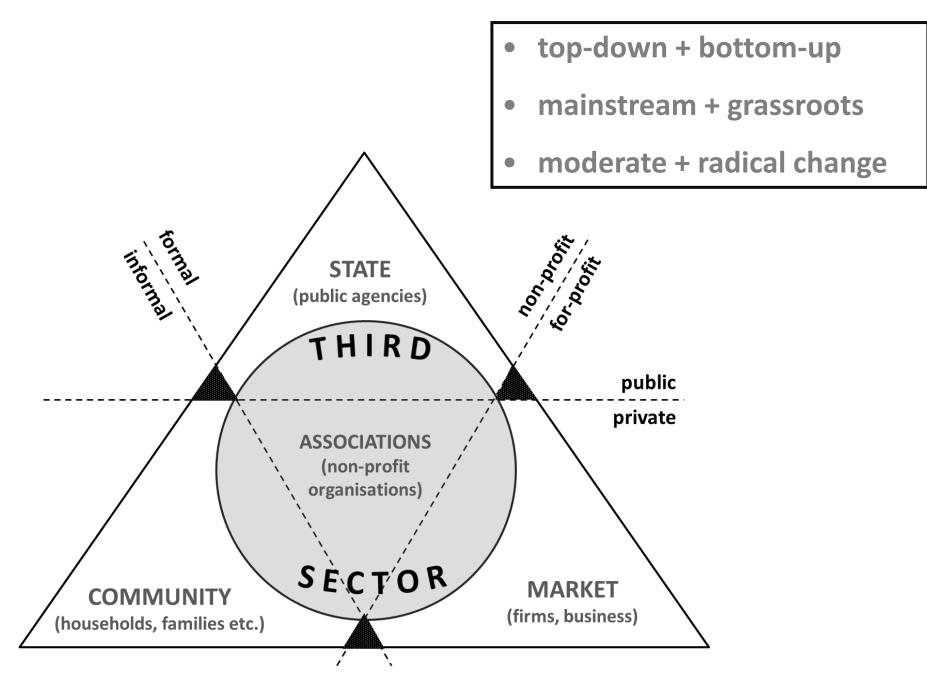


(DIS)EMPOWERMENT PARADOXES

- unpaid work > "volunteer fatigue"
- new dependencies and inequalities
- (mis) used as excuse for budget cuts "austerity"
- increasing neo-liberal dominance market
- big society requires big government!!!
- beed for structural, professional support



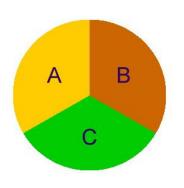




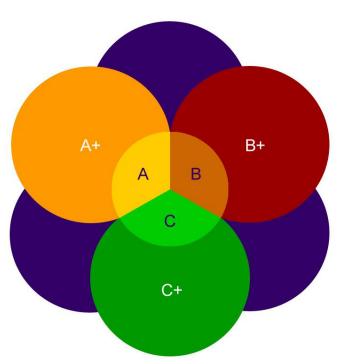
Avelino 2013, Based on Evers & Laville 2004, Pestoff 1992

transition 'butterfly effect'

- A: Civil society: Community + Third Sector
- **B:** Business
- C: Government



A+ B+ C+



transition arena

analysis + vision + experiment coalitions networks

social movement ... transition?



OBRIGADA

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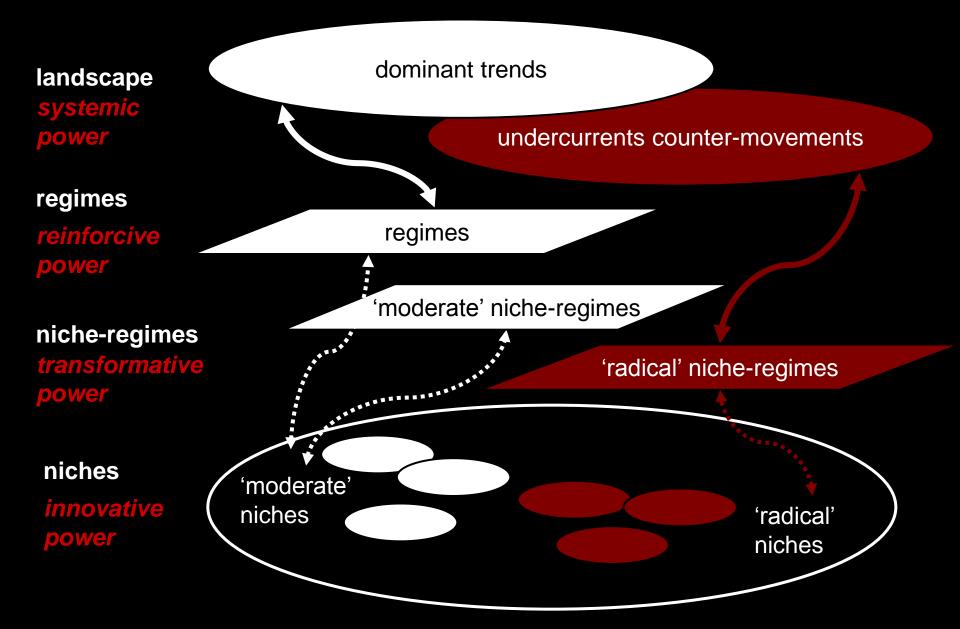
Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has. MARGARET MEAD

WWW.VERYBESTQUOTES.COM

4 levels of transition management

- **1. strategic**: structuring problems, vision for the **long term**, creating alternative scenarios for the future
- **2. tactical**: formulating transition agenda for the **mid-term**, identifying strategies and transition paths
- 3. operational: conducting projects and experiments on the short-term
- 4. reflective: evaluate, monitor, learn and adapt

Multi-level Power-in-Transition Framework (multi-PIT)



EMPOWERMENT

Empowerment ≈ *people come to believe that they* **can** and **want** *to exercise power*

Empowerment ≈ "intrinsic motivation"

Thomas & Velthouse 1990

Empowerment ≈ intrinsic motivation

IMPACT ≈ *"I can make a difference"*

COMPETENCE ≈ *"I am good at what I do"*

MEANING ≈ *"I believe in what I do"*

CHOICE ≈ *"I can determine what I do"*

Transition governance ≈

increasing collective intrinsic motivation

IMPACT ≈ *"WE can make a difference"*

COMPETENCE ≈ *"WE are good at what WE do"*

MEANING ≈ *"WE believe in what WE do"*

CHOICE ≈ *"WE can determine what WE do"*

Transition in multi-level terms

Transition ≈

- a long-term shift in power
- in which the old regime in a system
- is replaced by a new, alternative regime

Sustainability Transitions ≈

- when an unsustainability regime is
- replaced by a regime (more) sustainability-oriented

The Challenge of Mainstreaming Niches...

"absorption" and "Trojan Horse"-strategy

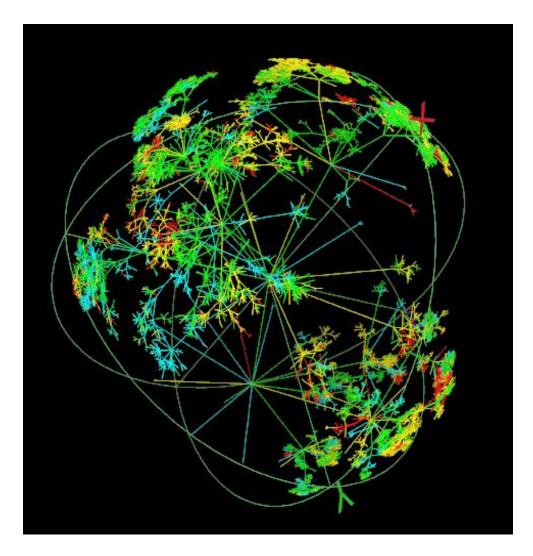
system thinking

System ≈

- delineated whole, compounded of parts
- certain level of integration & interdependency

human body, organs, law, ecosystems, an organization, nation-state, the earth, the universe, a molecule

complex adaptive systems (CAS)



Complex ≈

when the whole (= the system) exhibits properties that cannot be traced back to the individual parts

Adaptive ≈ open and adaptive to environment



Texel







"Tested & Tried on Texel"



"Oplaadstation Texel"

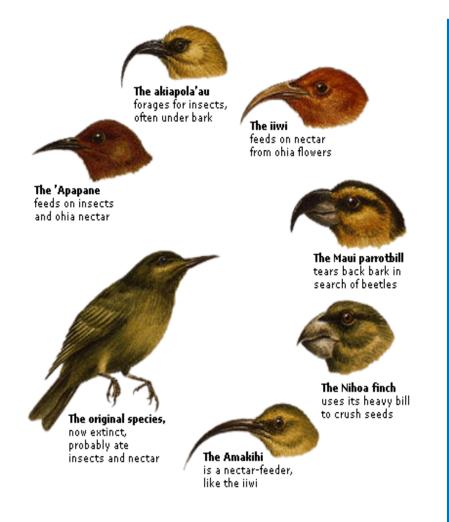
"Het eiland dat energie levert"

Artist Impressions "Texel geeft energie" 2009) Zie ook: Burgermeesterboek van Pepik Henneman, 2011

NL's first energy cooperative: Texel Energie



Strategic Niche Management (SNM)



PROTECTION of niches

Shielding

- Nurturing
- Empowering

arena ≈ niche

creating a (new) niche by connecting decoupled niche-actors

different from regime no usual suspects no business-as-usual combinations

> protected space in the shadow and informal



reading

PhD-thesis

"Power in Transition. Empowering Discourses on Sustainability Transition" online te downloaden via: <u>http://repub.eur.nl/res/pub/30663/</u>

Scientific Articles

- Avelino, F. and Rotmans, J. (2011) "A dynamic conceptualization of power for sustainability research", *Journal of Cleaner Production*, 19(8):796-804 <u>http://www.sciencedirect.com/science/article/pii/S0959652610004464</u>
- Avelino, F. (2009) "Empowerment and the challenge of applying transition management to ongoing projects", *Policy Sciences*, 42(4):369-390 <u>http://link.springer.com/article/10.1007%2Fs11077-009-9102-6</u>
- Avelino, F. and Rotmans, J. (2009) "Power in transition. An interdisciplinary framework to study power in relation to structural change", *European Journal of Social Theory*, 12(40):543-569
 http://repub.eur.nl/res/pub/18412/

PLANETARY BOUNDARIES

Earth-system process	Parameters	Proposed boundary	Current status	Pre-industrial value
Climate change	(i) Atmospheric carbon dioxide concentration (parts per million by volume)	350	387	280
	(ii) Change in radiative forcing (watts per metre squared)	1	1.5	0
Rate of biodiversity loss	Extinction rate (number of species per million species per year)	10	>100	0.1-1
Nitrogen cycle (part of a boundary with the phosphorus cycle)	Amount of N ₂ removed from the atmosphere for human use (millions of tonnes per year)	35	121	0
Phosphorus cycle (part of a boundary with the nitrogen cycle)	Quantity of P flowing into the oceans (millions of tonnes per year)	11	8.5-9.5	~1

Sacal Strengton

elobal Rockström et al., 2009 (Nature)

Ocean acidification

ozone depletion Stratospheric

La produce de la compañía de la compañía

Shiphond

Such and

Climate change

intion

Change in land use

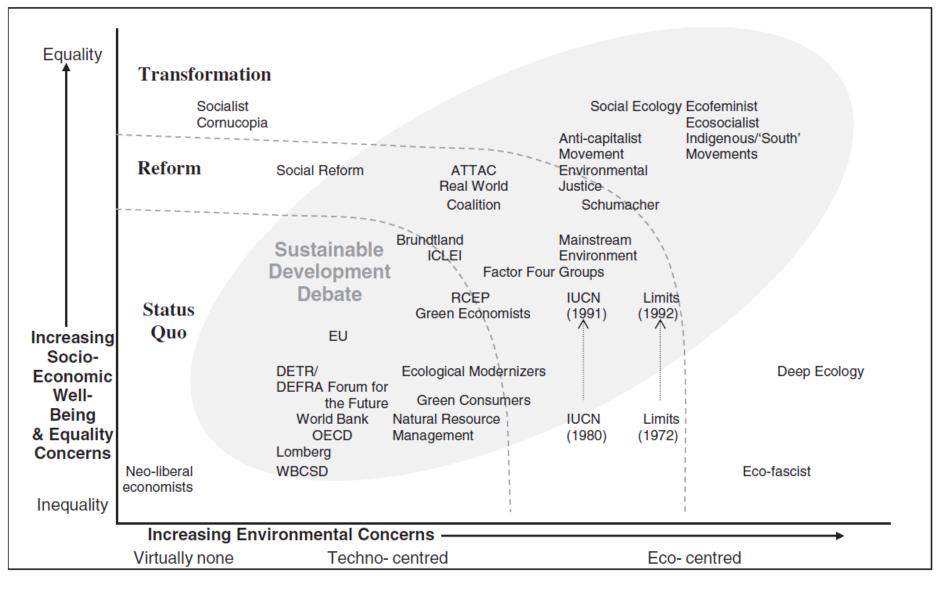


Figure 1. Mapping of views on sustainable development

source: Hopwood, Mellor and O'Brien (2005)

Transition studies approach sustainability as:

- an essentially contested notion (Lukes 1974)
- complex, normative, subjective, ambiguous (Kasemir et al 2003, Rotmans 2003)
- context-specific (Grin 2004)
- a few generic properties...