

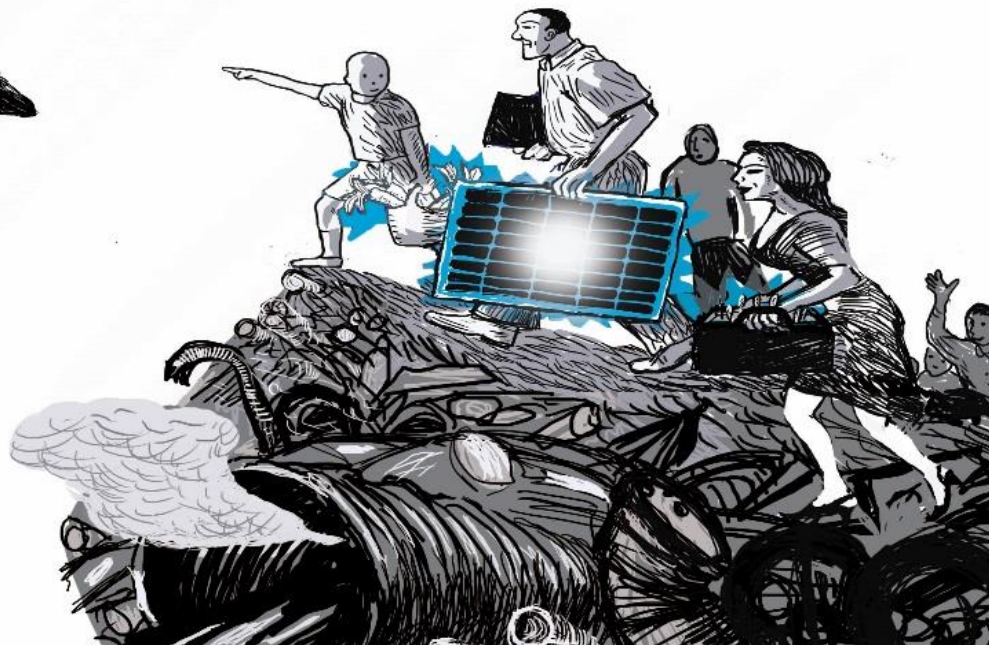
drift for transition



Sustainability transitions research
combining thinking and doing for positive futures

Prof. dr. Derk Loorbach

Tampere, 03-09-2019



Dutch Research Institute For Transitions

Institute of Erasmus University
Rotterdam, the Netherlands

Academic education, research,
consultancy and action research

40 employees

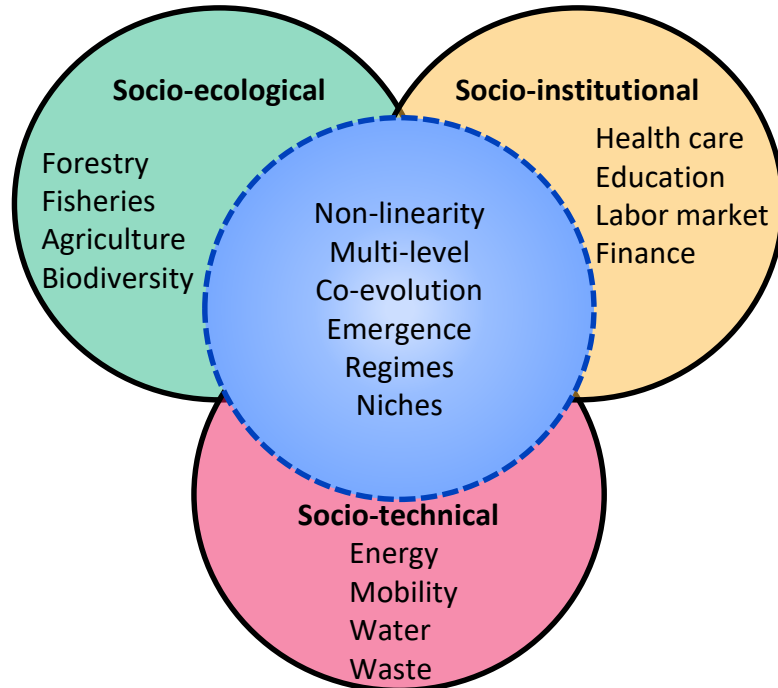
Founded in 2004

mission

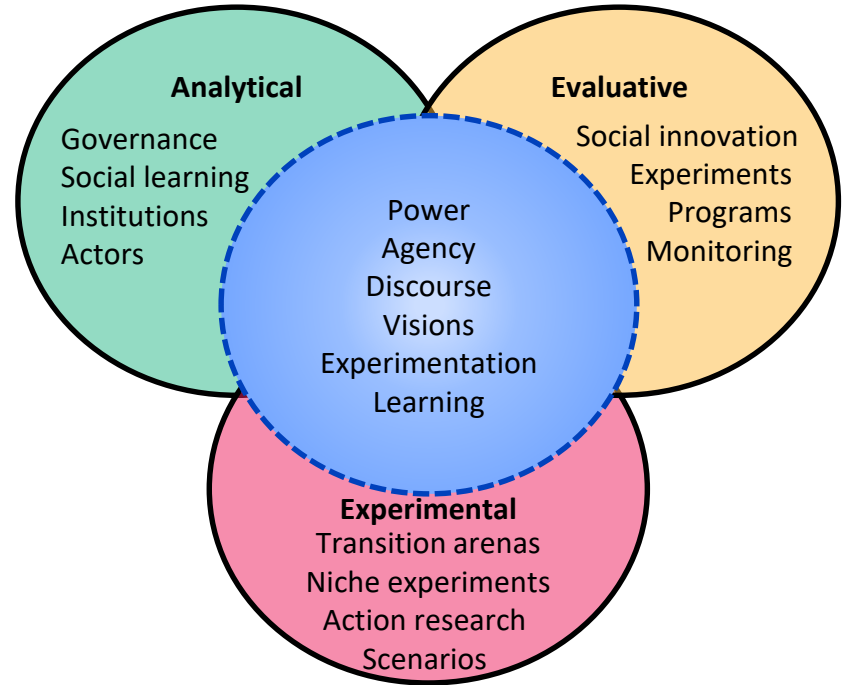
Guiding and accelerating
sustainability transitions



Sustainability Transitions Research



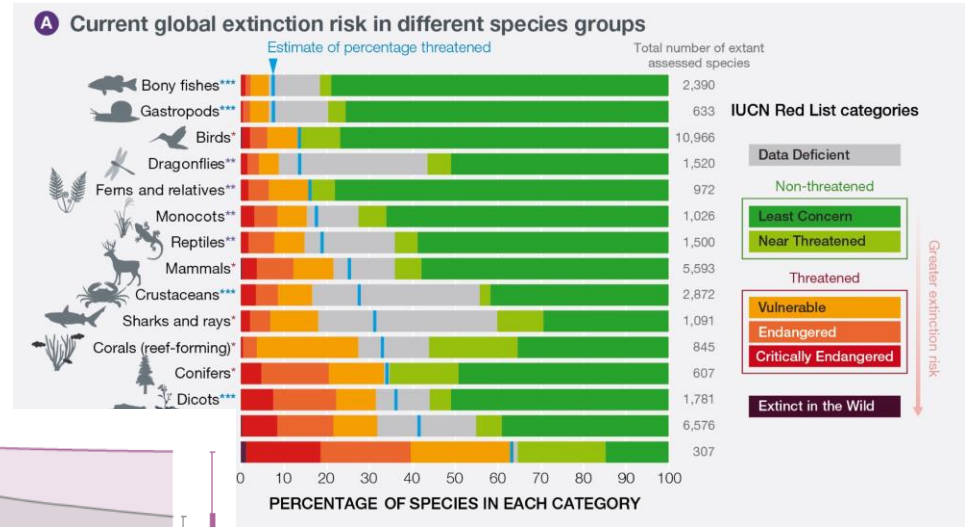
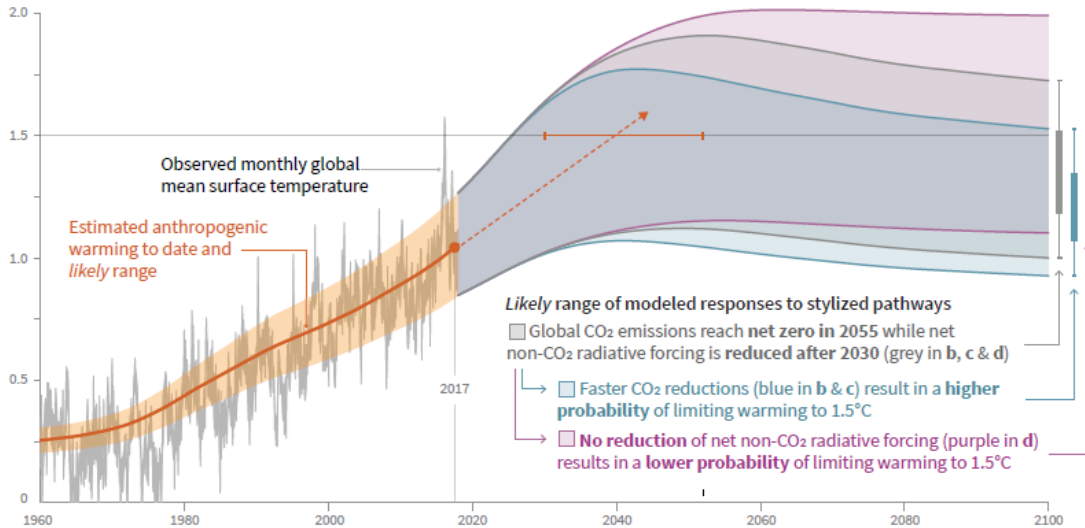
Research perspectives



Governance approaches

Persistent unsustainability: Transformative change needed

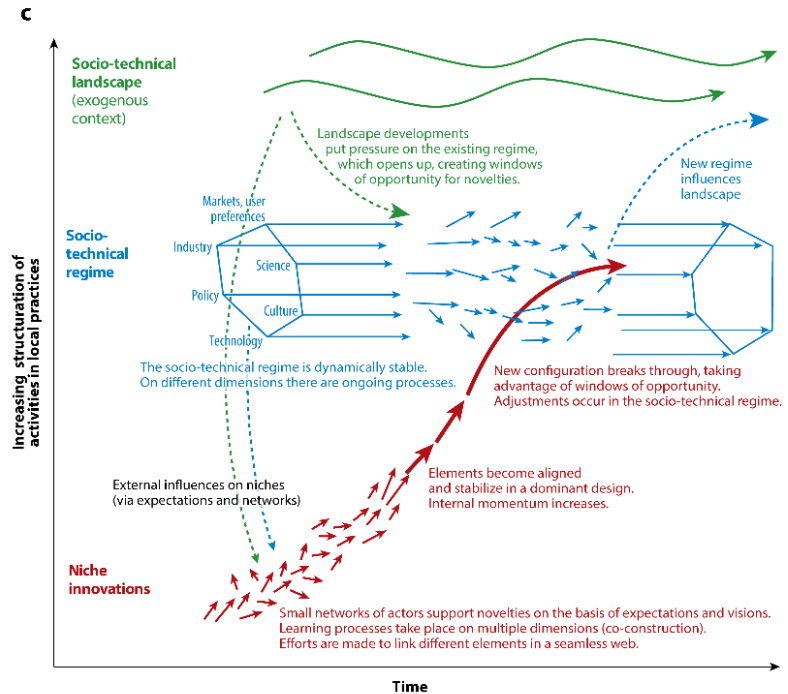
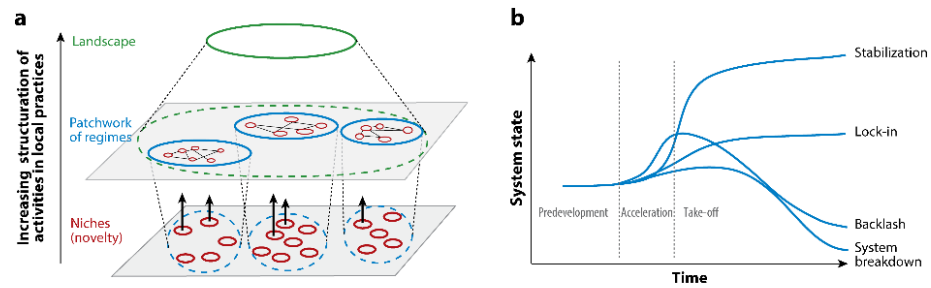
Global warming relative to 1850-1900 (°C)



Transitions

A process of structural, non-linear systemic change in dominant *cultures, structures and practices* (regime) that takes place over a period of decades (Rotmans et al, 2001, Grin et al, 2010)

- cultures:** shared values, paradigms, worldviews, discourses
- structures:** institutions, economic structures, physical infrastructures
- practices:** routines, behavior, action, lifestyles



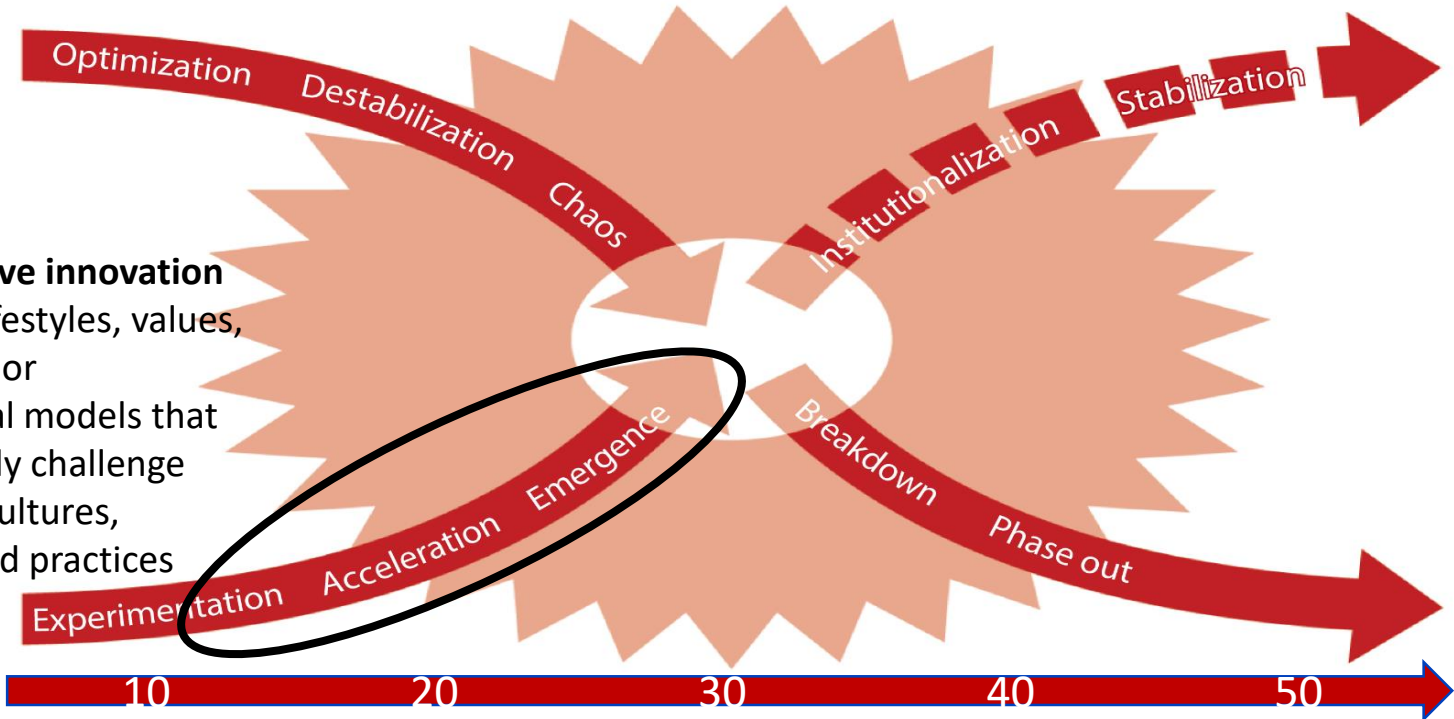
Historic transitions



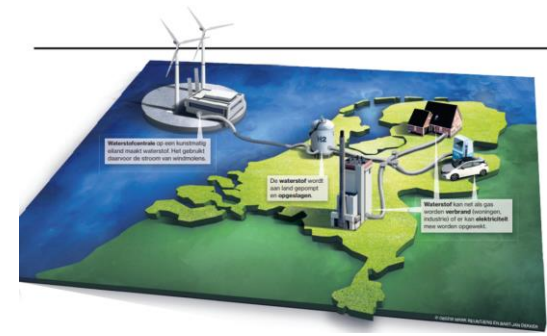
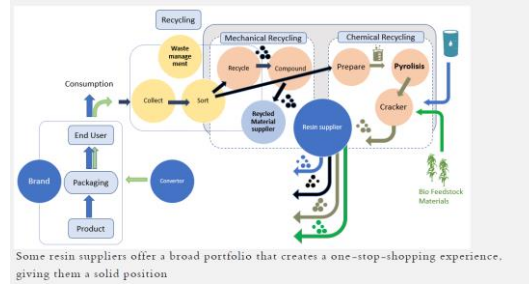
Emerging transformative innovations

Transformative innovation

Changes in lifestyles, values, technologies or organizational models that fundamentally challenge established cultures, structures and practices

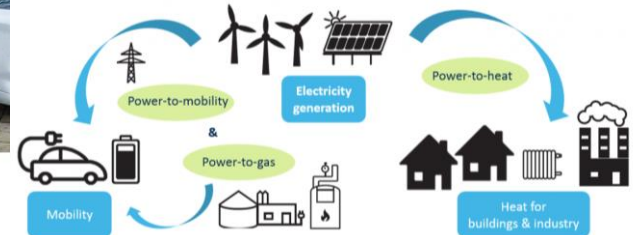
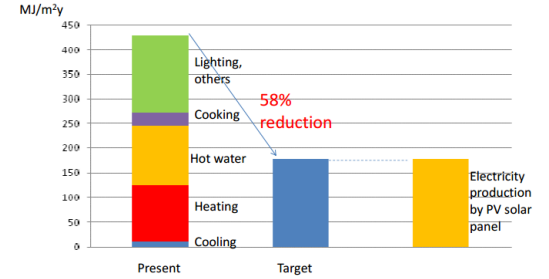


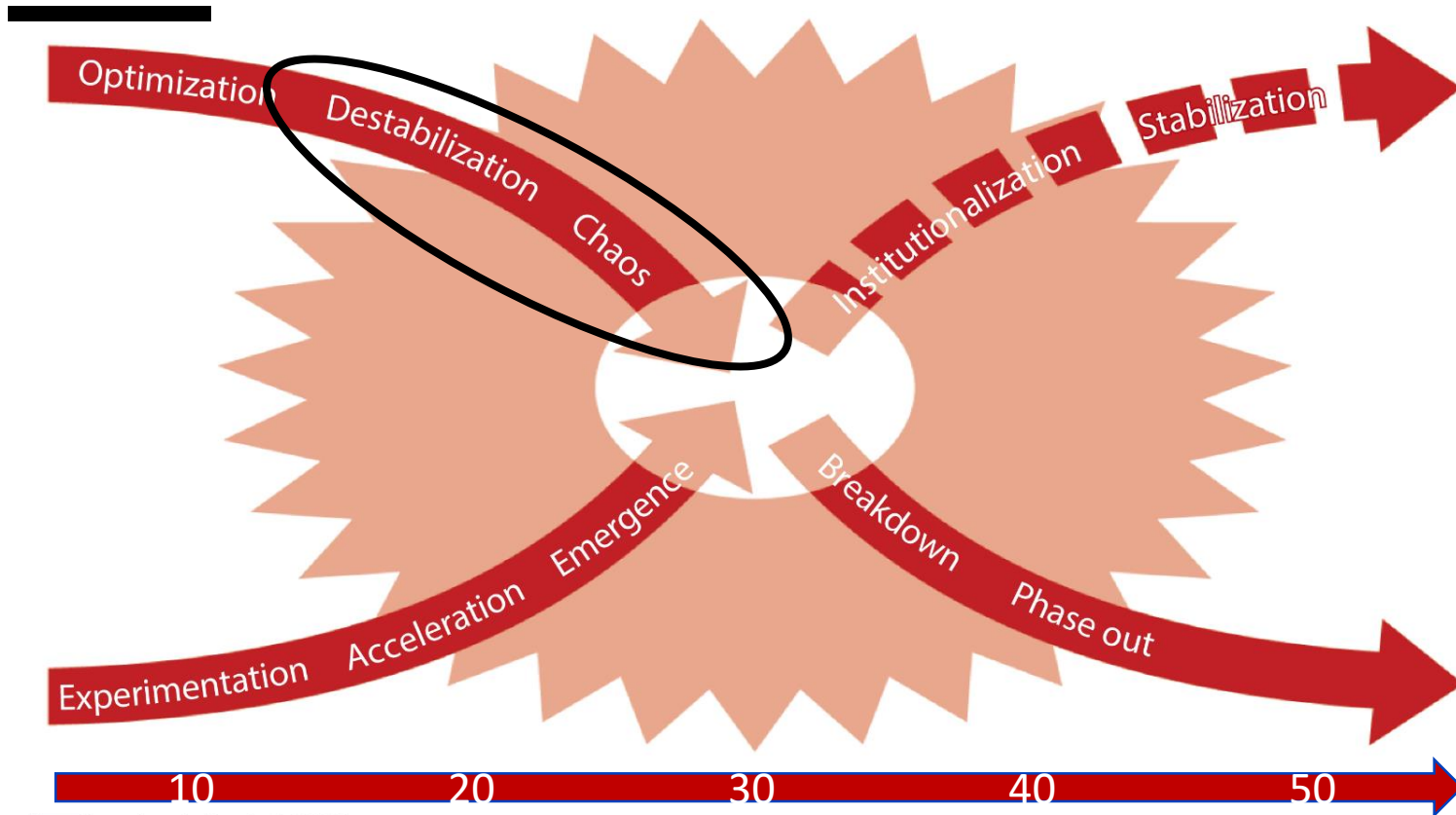
Changing the game?



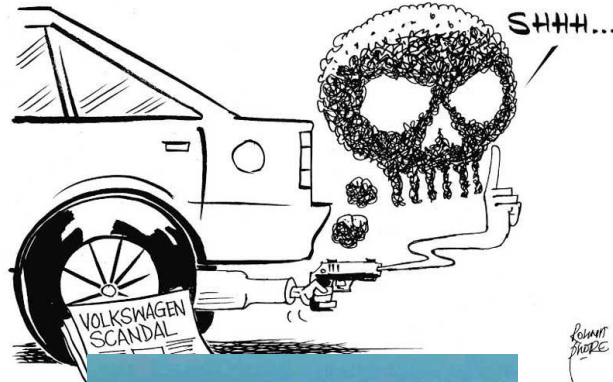
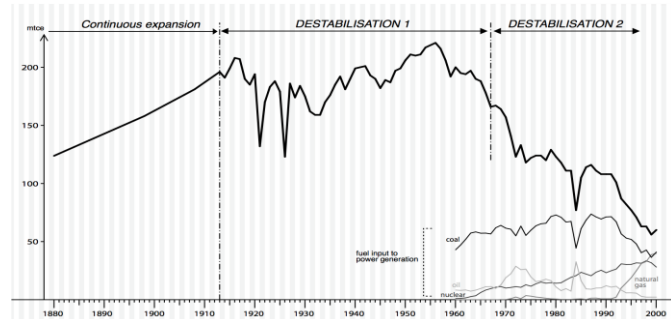
Target for Zero Energy Building in case of residential building

Averaged values of Japanese detached houses
 Floor area: 138m²
 PV Solar panel of 5kW is installed.





From destabilisation into transition



Proactive or transformative incumbents?



THE TIMES
MONDAY AUGUST 7 2017

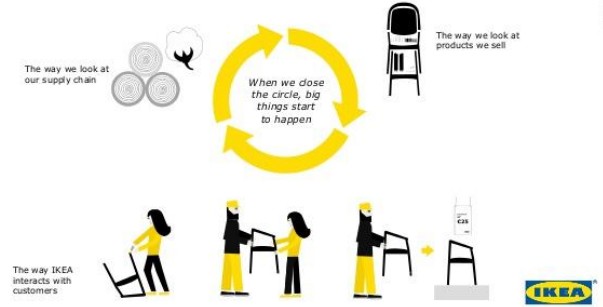
Shell challenges power giants



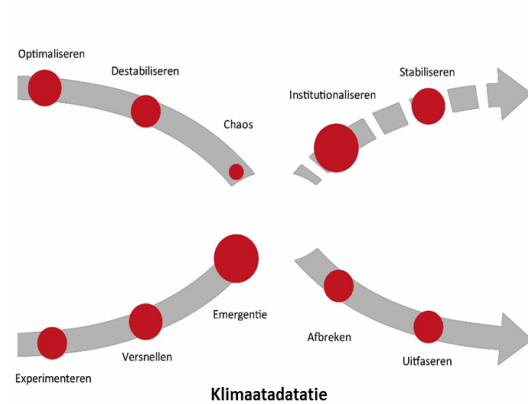
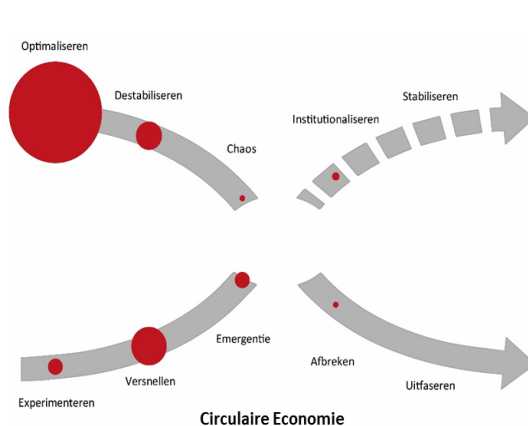
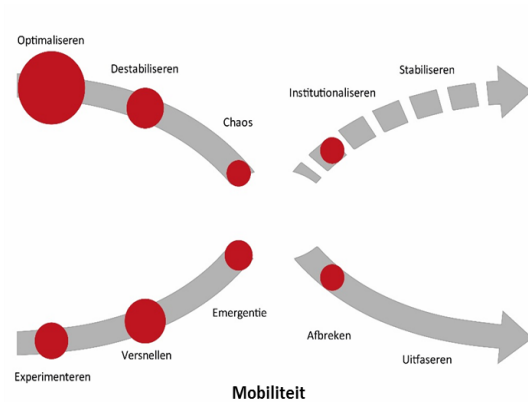
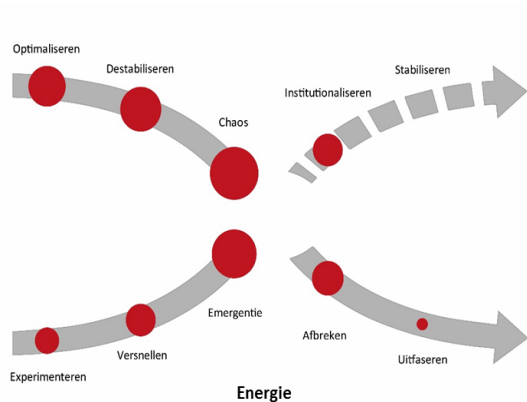
Royal Dutch Shell is making a strategic push into the electricity sector and expects to be supplying power to industrial customers next year: ANDREW MULLIGAN/PA



CIRCULAR IKEA



No transitions yet



(un)desired transitions?

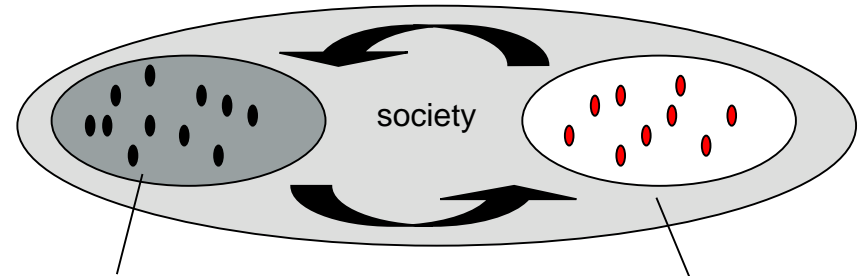
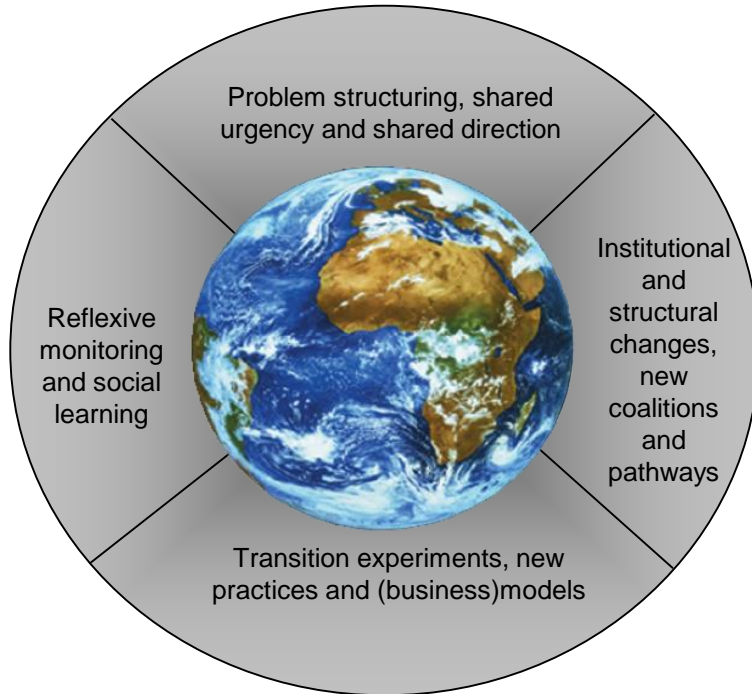


Transition governance: principles for transformative entrepreneurship

Radical on the long-term, diplomatic on the short-term

- **Systemic:** *develop systemic understanding of persistency and transition dynamics*
- **Selective:** *focus on change agents, frontrunners and exploring desired patterns*
- **Back-casting:** *envisioning and scenarios as instruments for change*
- **Adaptive:** *experimenting towards multiple goals and transition pathways*
- **Learning-by-doing and doing-by-learning:** *ensure monitoring, reflexivity and critical mindset*

Governance in transitions 1.0



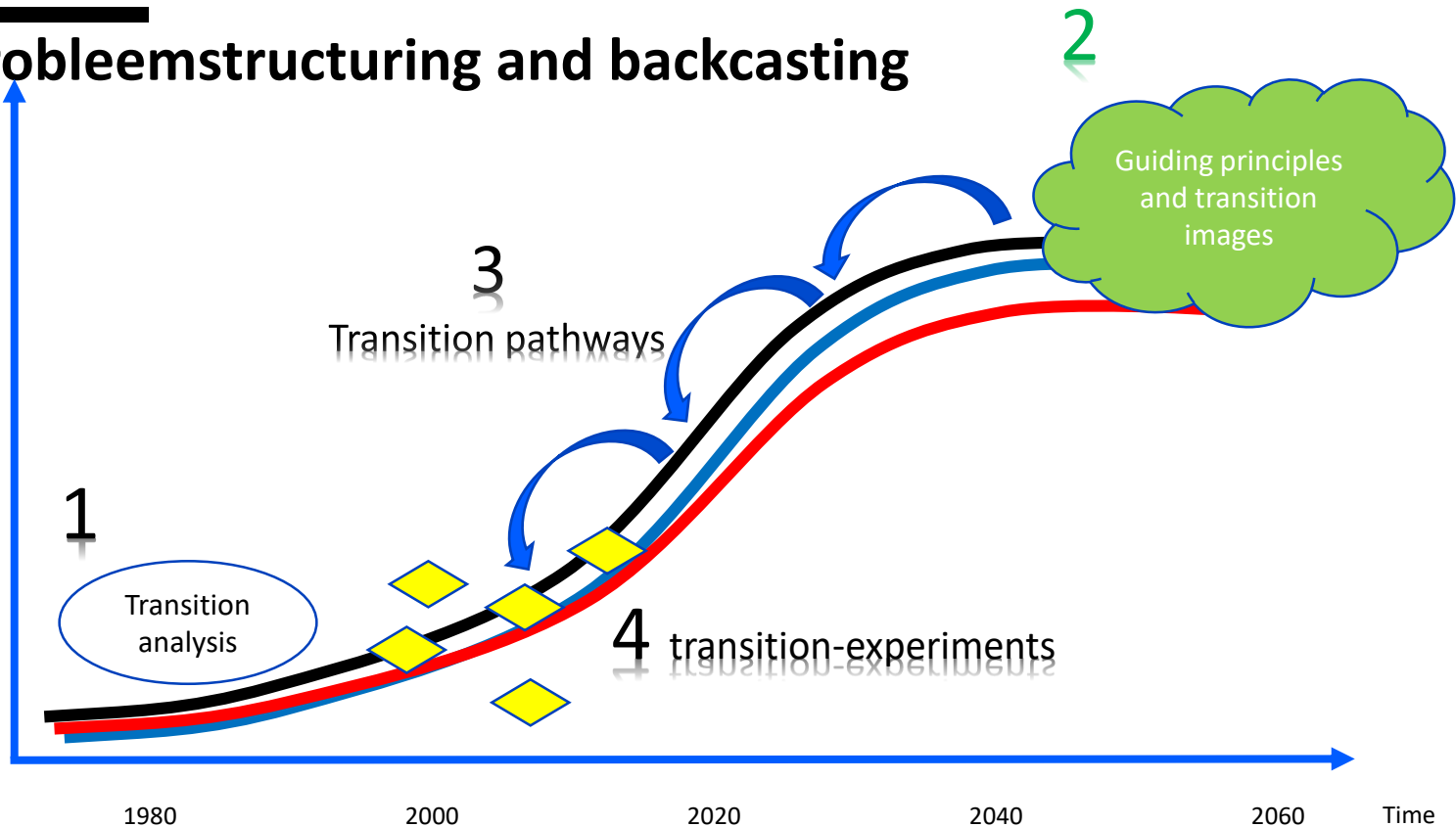
Business as usual

- *Short term*
- *Incremental improvements*
- *Goals and targets*
- *Standardisation*

Transition arena

- *Long term*
- *Transformative change*
- *Directionality and pathways*
- *Experimentation and learning*

Problem structuring and backcasting

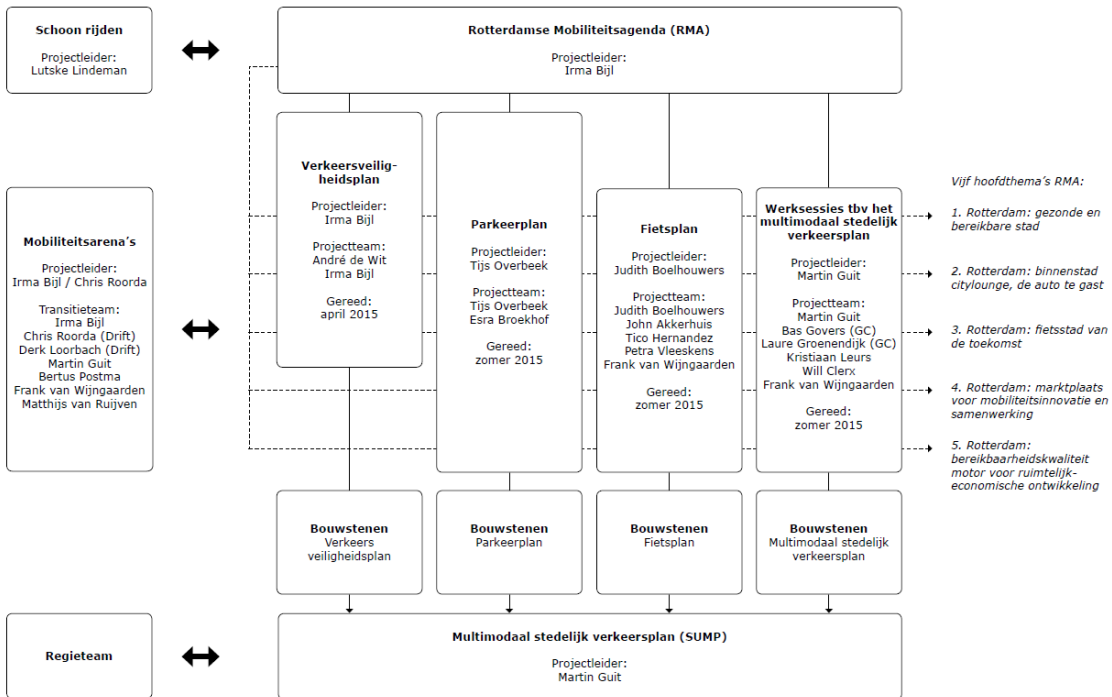


Transition arena



DEELNEMERS

Aldo Dorsman, Alicia Hobbe Have, Eelco Rietveld, Frank Mingardo, Jorn Wemmenho Radema, Martin Van der Do Quinten Passchier, Shurdon Somsen, Vincent Luyendijk, Derk Loorbach, Irma Bijl-Rodenburg, Martin Guit, Bertus Postma, Marjolein van Doorn en Melissa Groen in 't Wout



Policy transition



Social mobility

IN BEELD: Welkeder Loonberg opent BMX-afschool



BikePark

Fietsparkeren combineren met andere diensten & "openklappen" naar omgeving (ism Magis010)



Kinderfietsenplan

Grootschalig inzamelen van kinderfietsen; beschikbaar stellen & laten pimpen door kinderen op Zuid (ism ANWB)



Fietsvriendelijke scholen

Scholenprogramma voor veilige schoolomgeving & opbouw fietscultuur (ism BMX fietsschool en PothPieck architecten)



Connecting public space



Park [ing] day.

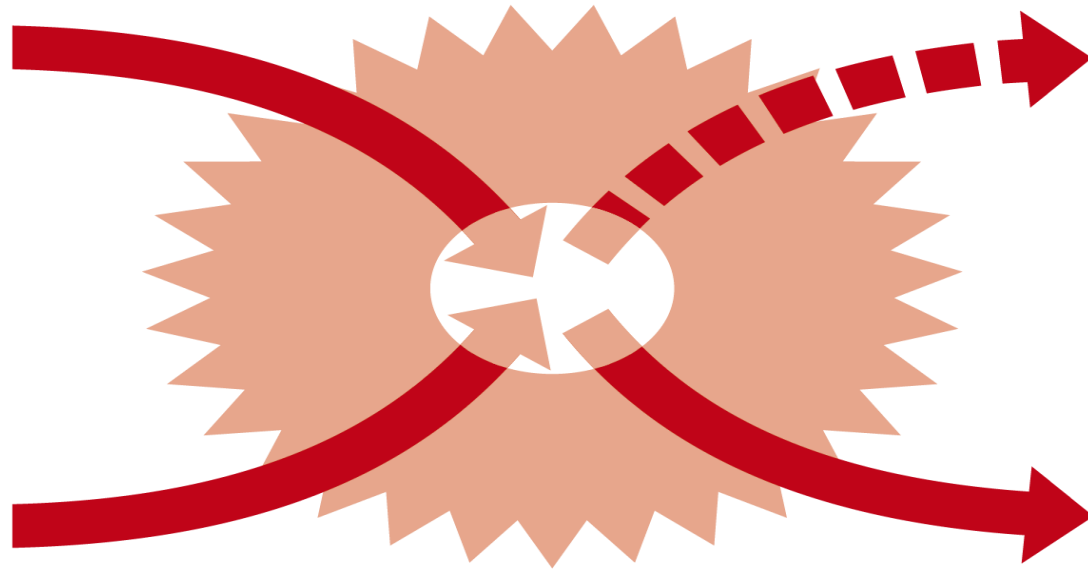
Accelerating and guiding?



Governance mix for later stage transitions

*Transform the
existing*

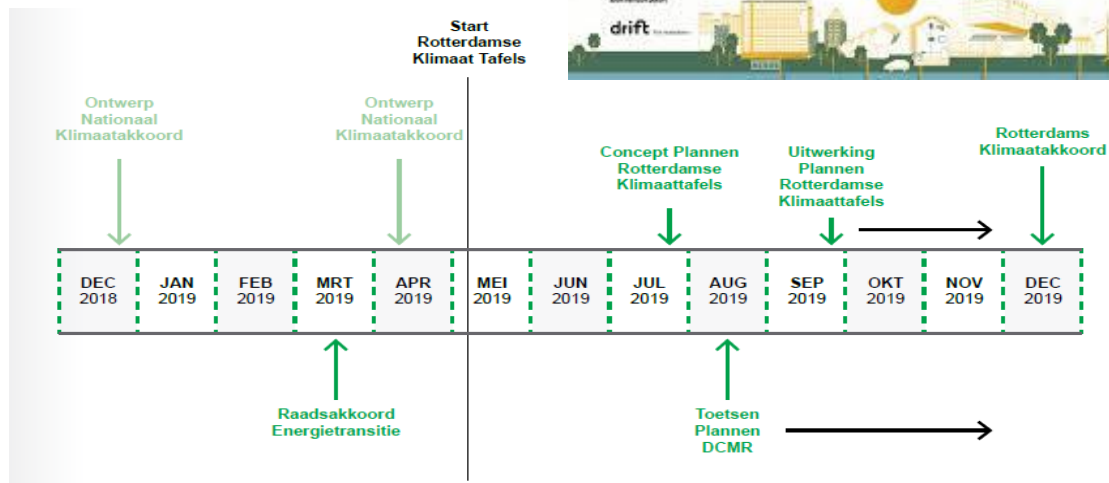
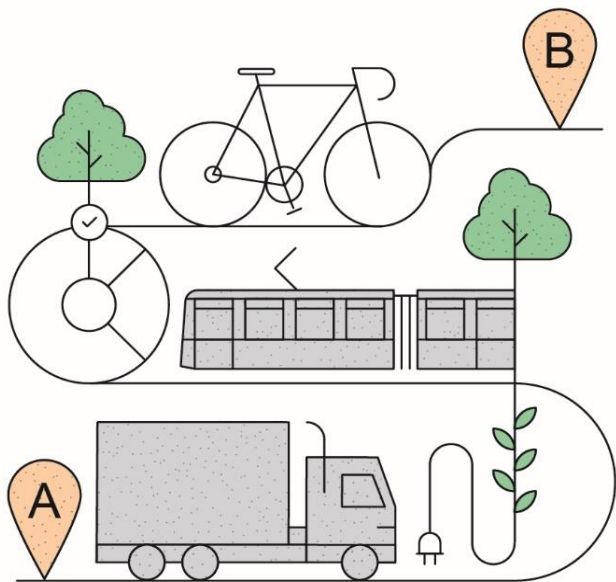
*Build-up the
sustainable*



*Guiding
direction,
reflexivity and
learning*

*Phase out the
undesired*

Climate agreement



Mobility transition Rotterdam: 100% zero emission in 2030

A direction for societal change rather than a policy goal

100% zero emission within city limits

affordable, accessible and fun for all

60% reduction of cars, 80% reduction of space use for cars

inner city and neighborhoods: slow traffic has priority

healthy mobility (walking cycling) pays, motorized mobility costs

Focus on short term structural experimentation bringing existing niches to scale

Governance: (urban) acupuncture for structural change

Create breakthrough interventions to explore how the alternative could work to accelerate ***positive transitions***

Embrace the radical direction but reduce it to a manageable and accountable **short-term intervention**

Aim to make existing alternatives attractive, available and accessible to all to help **shift the norm**

Start **close but at scale** in neighborhoods, streets communities and in organisations and areas

Facilitate **translocal diffusion** by enabling people to see, experience and share alternatives

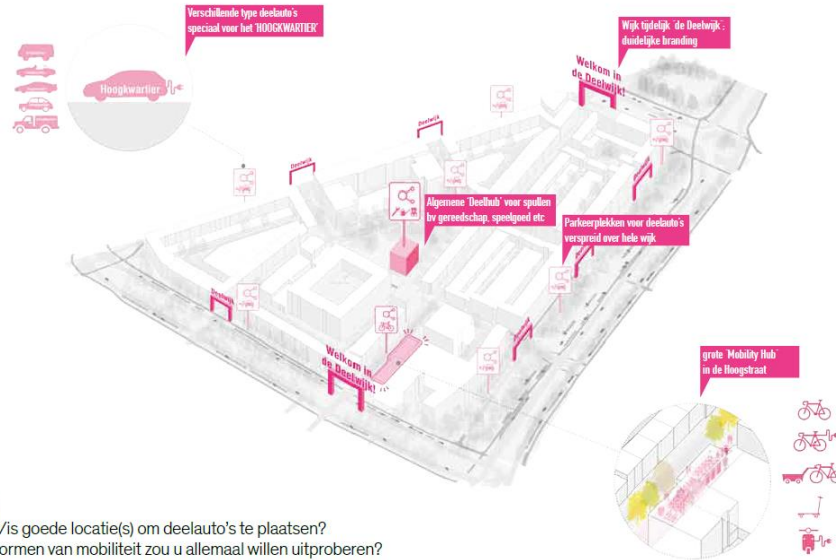


Meer mogelijkheden voor sport, spel en wandelen in de wijk

Filter ten opzichte van drukken wegen. Tevens voor geluid!

Absorberen CO2
Verbeteren luchtkwaliteit

Verhogen biodiversiteit



Vragen:
Wat zijn/is goede locatie(s) om deelauto's te plaatsen?
Welke vormen van mobiliteit zou u allemaal willen uitproberen?



Stadslab Hoogkwartier

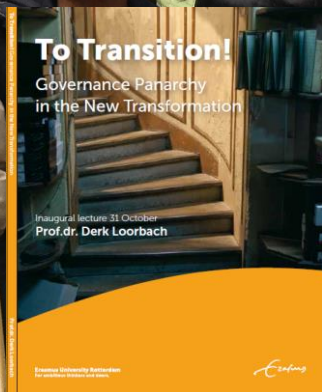
Blaakpark



Transitions need action research(ers)

- Drivers and mechanisms that cause transitions need to be identified, interpreted and discussed
- Path-dependencies, routines and vested interests that work against desired futures need to be challenged
- Emerging alternatives need to be assessed, empowered, connected and diffused
- Possible positive futures need to be guided, protected, prioritized and nurtured

drift for transition



For more information and publications:

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www.drift.eur.nl

www.twitter.com/drk75

Erasmus