

Faculty of Design

2021

Storytelling for Systems Design: Embedding and communicating complex and intangible data through narratives

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Suggested citation:

Talgorn, Elise and Hendriks, Monique (2021) Storytelling for Systems Design: Embedding and communicating complex and intangible data through narratives. In: Proceedings of Relating Systems Thinking and Design (RSD10) 2021 Symposium, 2-6 Nov 2021, Delft, The Netherlands. Available at <https://openresearch.ocadu.ca/id/eprint/3816/>

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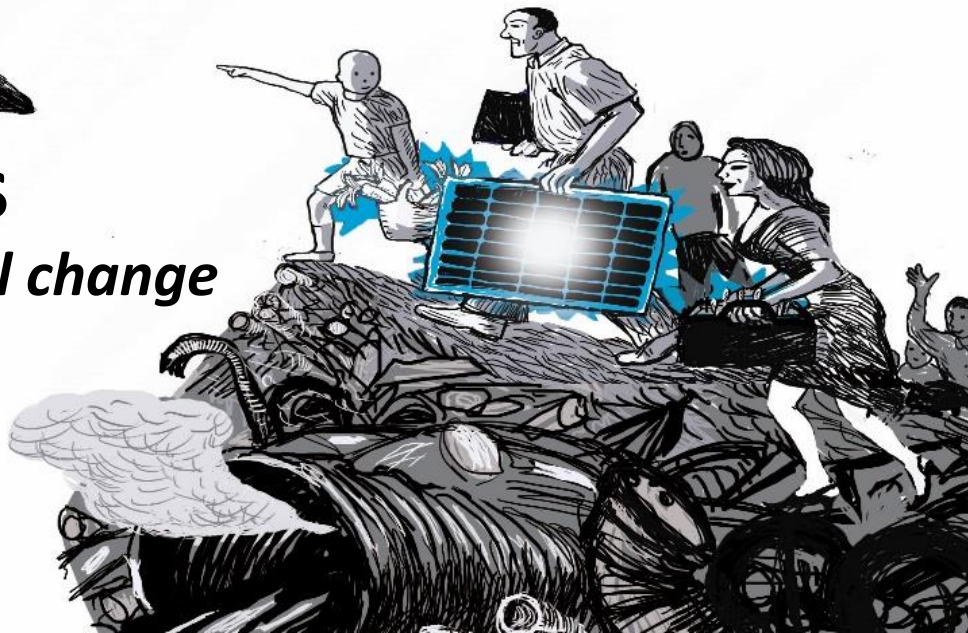


Designing Transitions

or how we can empower radical change

Prof. dr. Derk Loorbach

Delft, 04-11-2021



Dutch Research Institute For Transitions

Academic research, consulting,
education, activism

Social enterprise

30+ employees

Founded in 2004

mission

Accelerate and guide just
sustainability transitions by
developing knowledge in and with
practice

Design Impact Transition platform

Transdisciplinary and transformative
research, education and engagement

Strategic university platform

Core team and academics with impact
assignments

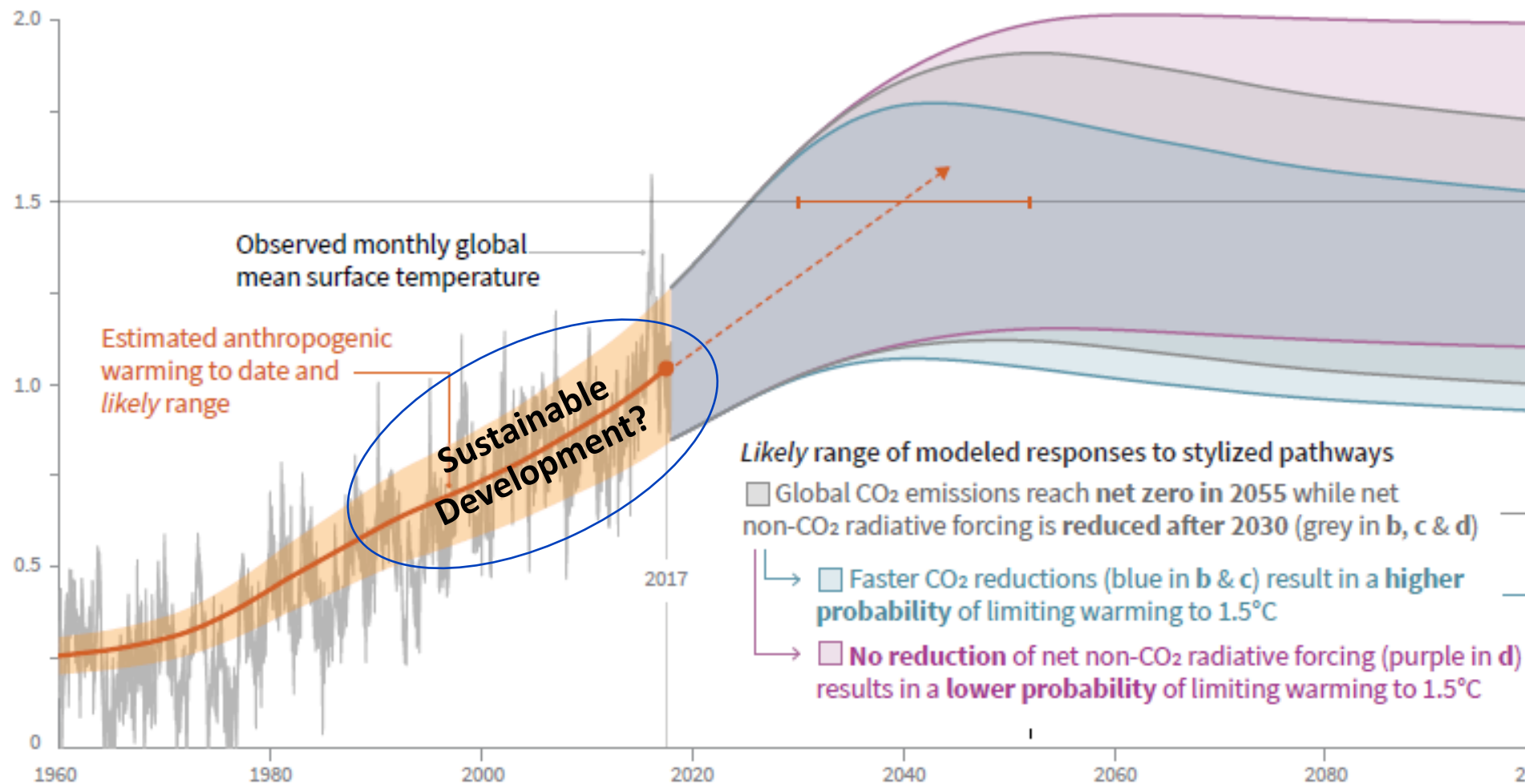
mission

Establish and institutional space
for transformative academic work
at EUR

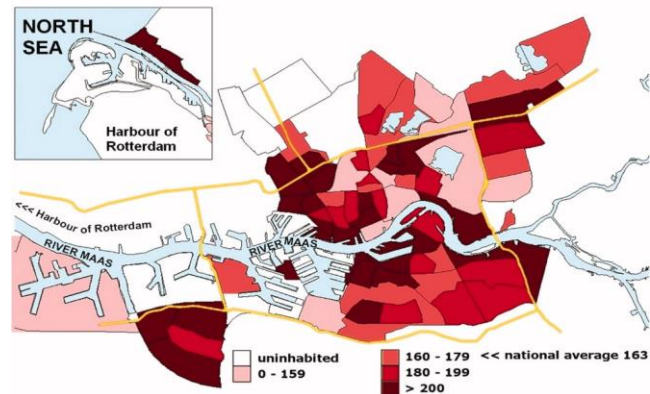
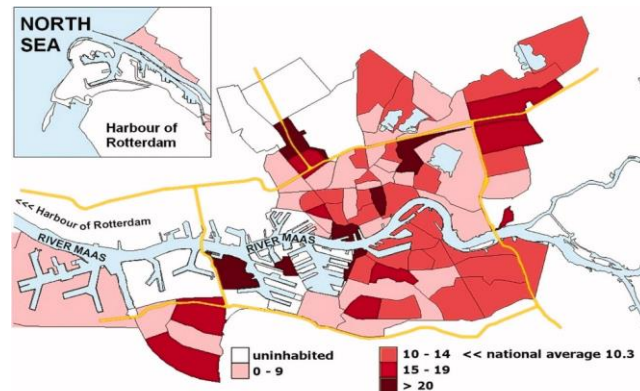
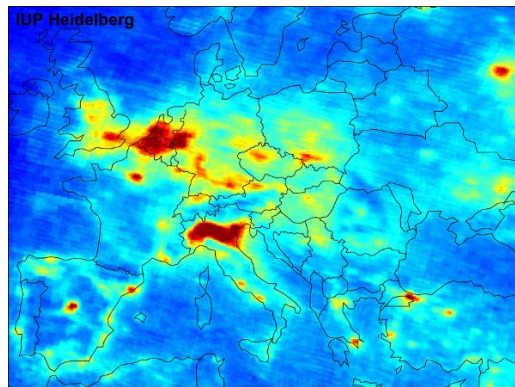
Come join the DIT launch November 25!



Global warming relative to 1850-1900 (°C)



Persistent problems



Regime

Dominant and shared ways of **thinking, organising and doing** in a societal (sub)system

cultures: shared values, paradigms, worldviews, discourses

structures: institutions, economic structures, physical infrastructures

practices: routines, behavior, action, lifestyles

The dominant paradigm in policy and management

Implementation illusion

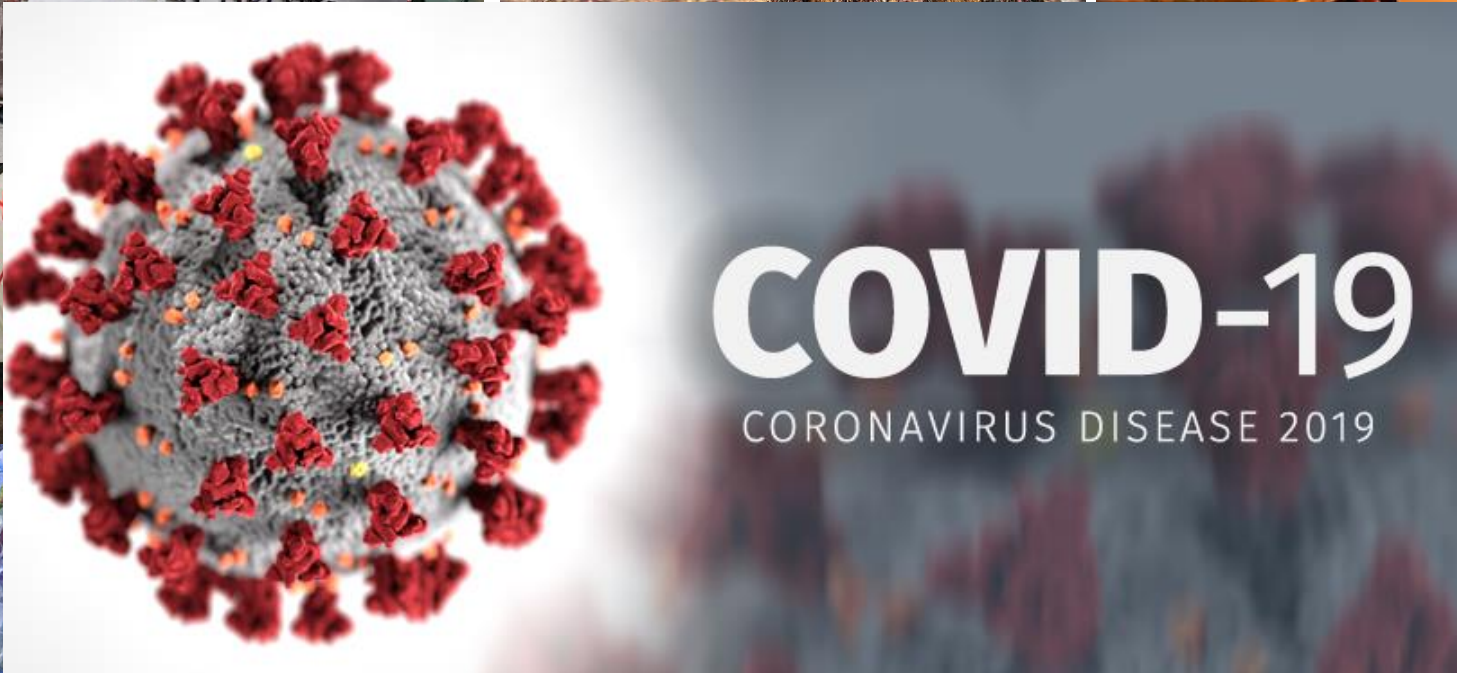
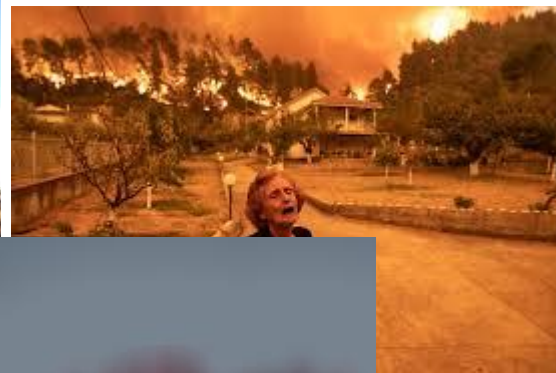
Risk paradox

Innovation trap

Imagination deficit

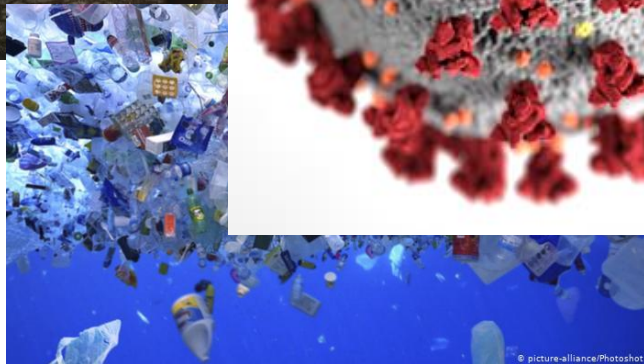


dr



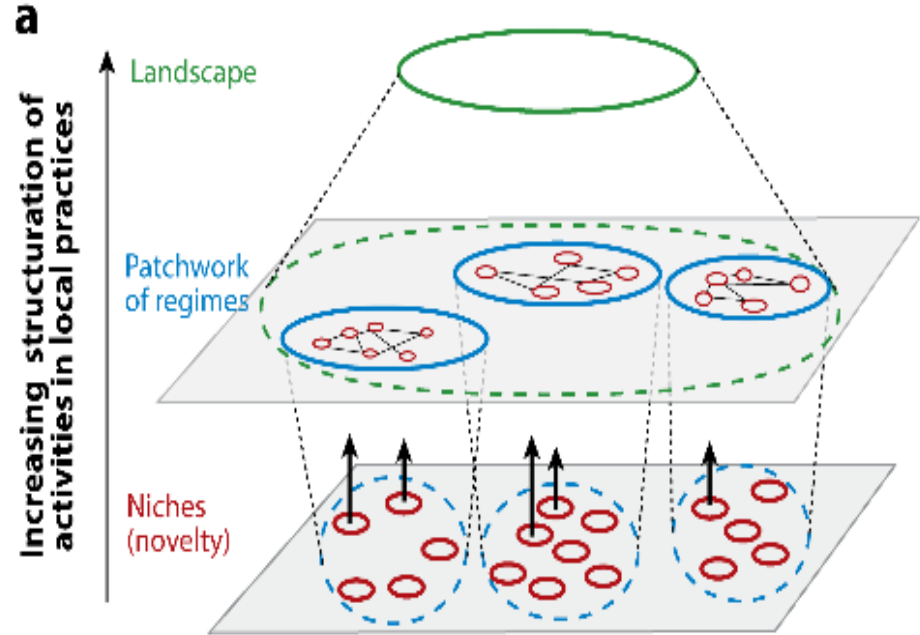
COVID-19

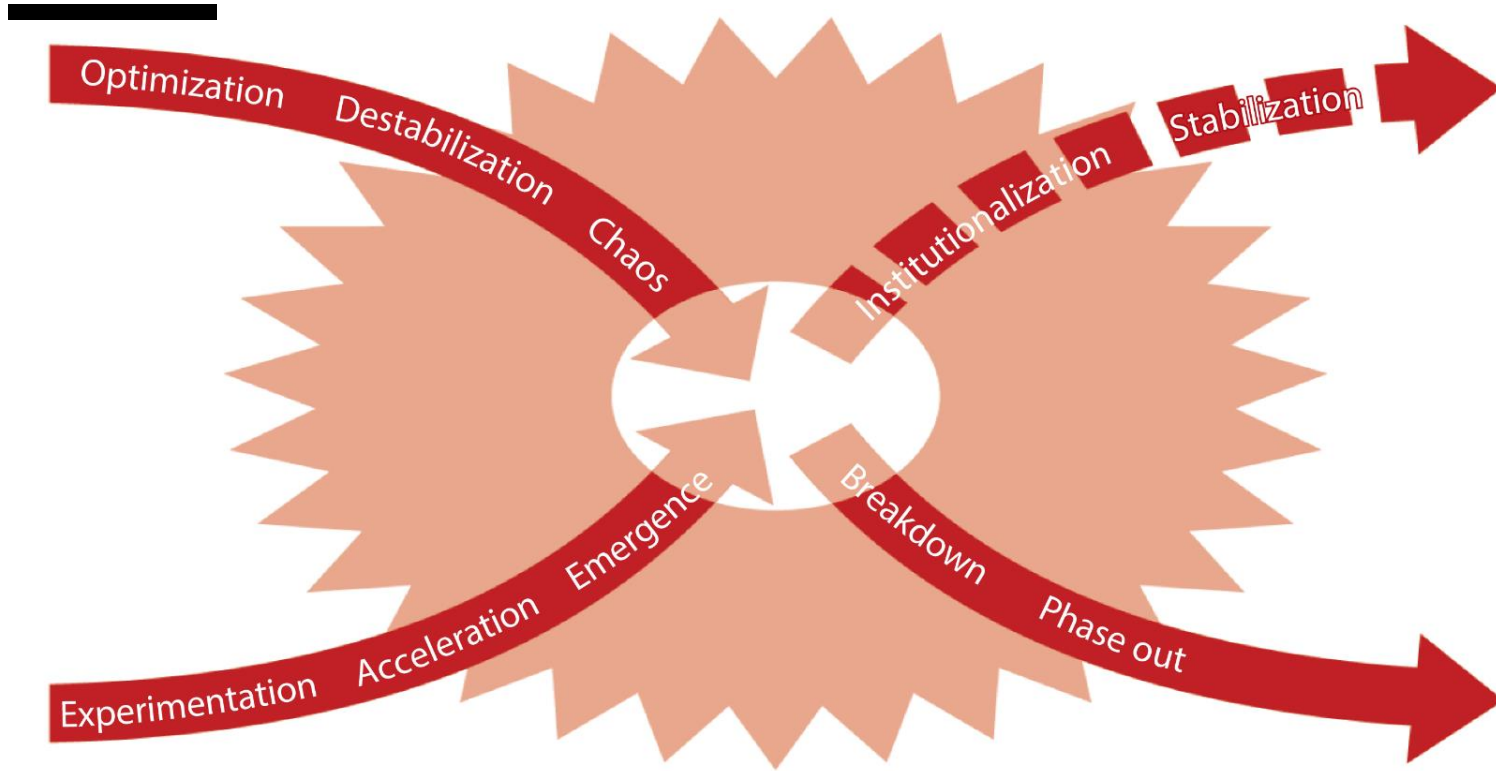
CORONAVIRUS DISEASE 2019



Transition: out of equilibrium

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



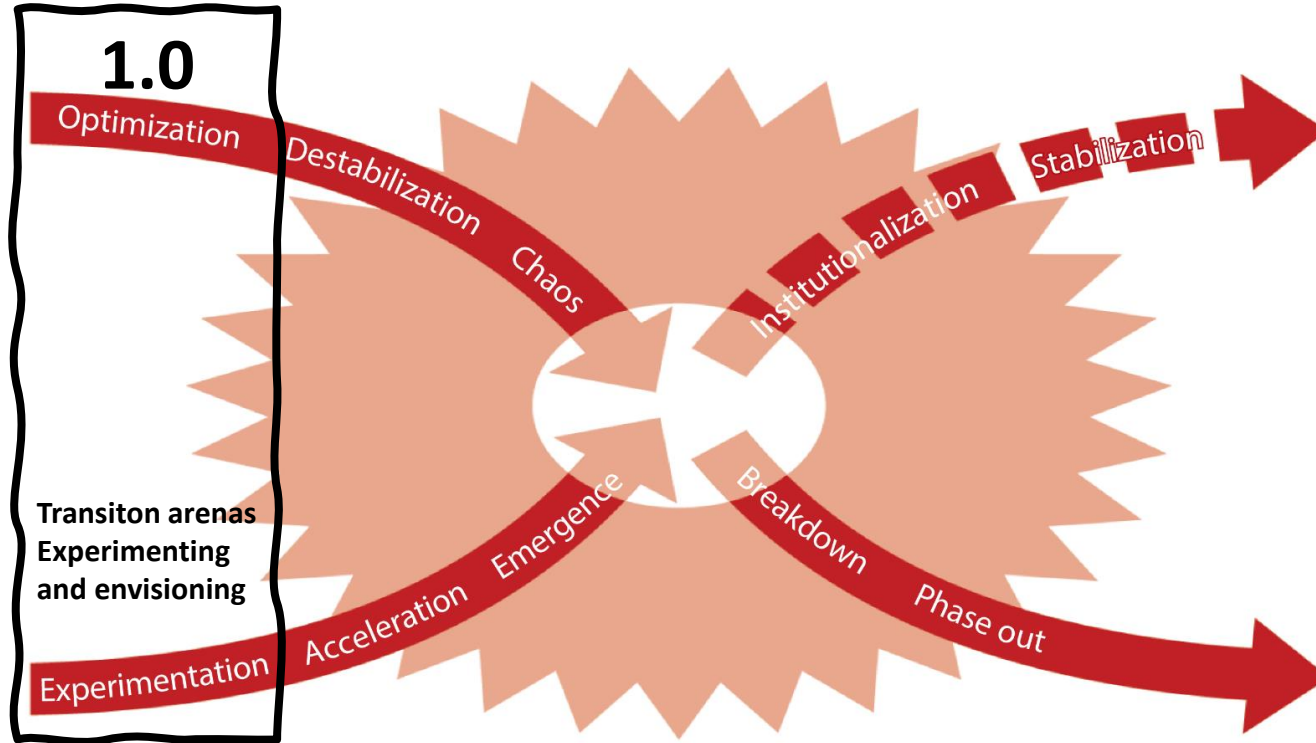


Transition governance principles: design logic?

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

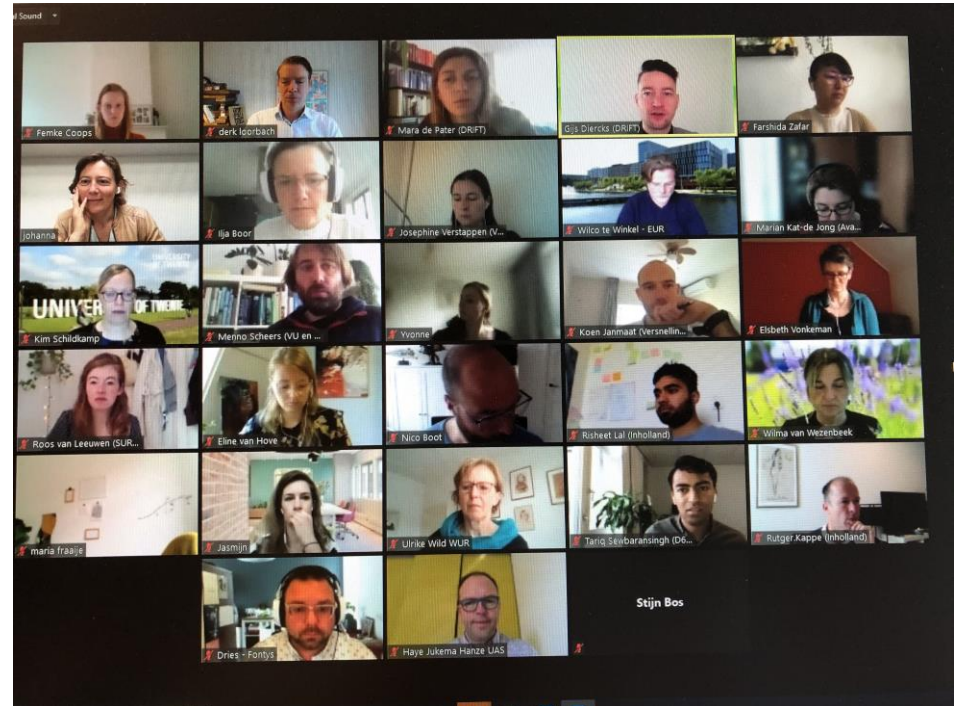
- **Systemic:** *engage with emerging dynamics across societal levels*
- **Back-casting:** *taking desired transition as starting point*
- **Selective:** *focus on transformative agency already engaging with transition*
- **Adaptive:** *experimenting towards multiple goals and transition pathways*
- **Learning-by-doing and doing-by-learning:** *ensure monitoring and reflexivity*

Creating transformative discourse, triggering destabilisation and accelerating transformative innovation



Transition arena higher education

- 4 sessions online
- Individuals from (applied) uni's, politics, SURF, government
- New transition narrative about digitalization and future of HE



het onderwijssysteem
is enorm
gegroeid



op je 12^e
spring je
door een
hoepel
heen



Lerenden geven
hun eigen leerpad vorm



Bij leren is
blended de norm



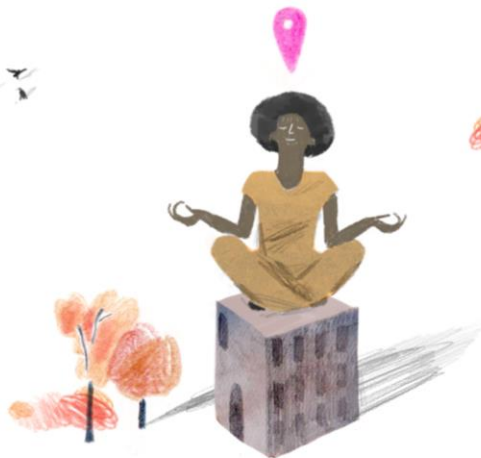
Docenten werken samen in teams
waarbij ze een diversiteit in
disciplines en rollen inbrengen



Een gemeenschappelijke
fundering op basis van
Open Education



Hoger onderwijsinstellingen
dienen als thuisbasis





DEELNEMERS IN BEELD

Aldo Dorsman, Alicia Hobbel, Cemile Sezer, Daan van der Have, Eelco Rietveld, Frank Van Wijngaarden, Guiliano Mingardo, Jorn Wemmenhove, Louis Kooyman, Mano Radema, Martin Van der Does, Matthijs Van Ruijven, Quinten Passchier, Shurdon Faneyte, Stella Leijten, Steven Somsen, Vincent Luyendijk, Dries Gysels, Chris Roorda, Derk Loorbach, Irma Bijl-Rodenburg, Martin Guit, Bertus Postma, Marjolein van Doorn en Melissa Groen in 't Wout

Social mobility

IN BEELD: Wertheimer Langenberg opent BMX-fietschool



BikePark

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



Kinderfietsenplan

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



Fietsvriendelijke scholen

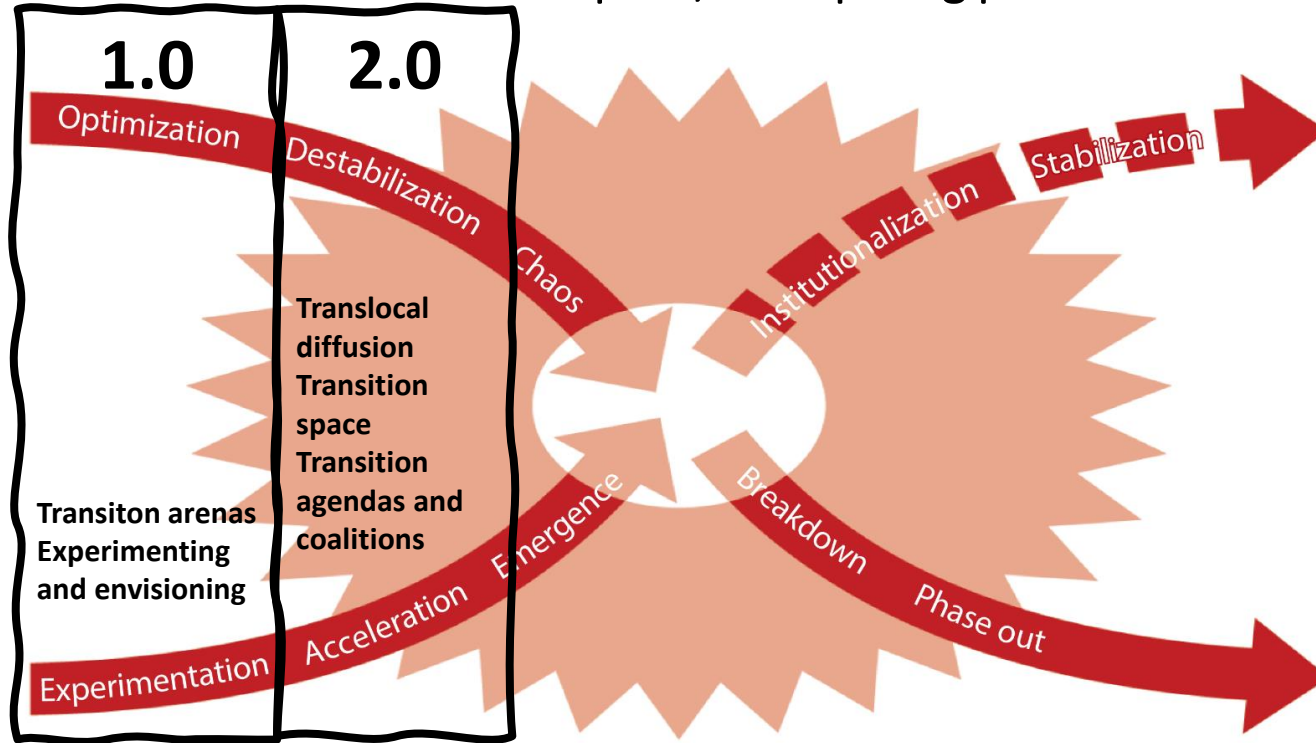
Scholenprogramma voor veilige schoolomgeving & opbouw fietscultuur (ism BMX fietsscholen en PothPiek architecten)



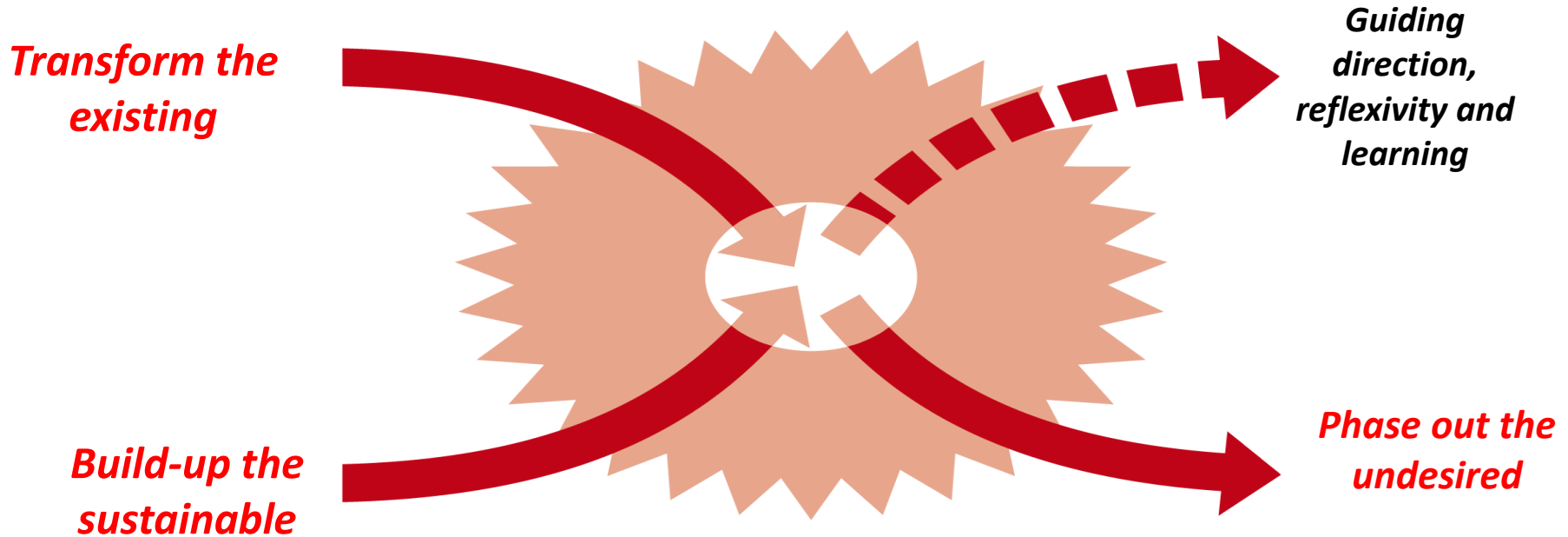
Policy transition



Connecting transformative agency, developing competitive niche-regimes, creating transition space, anticipating phase out

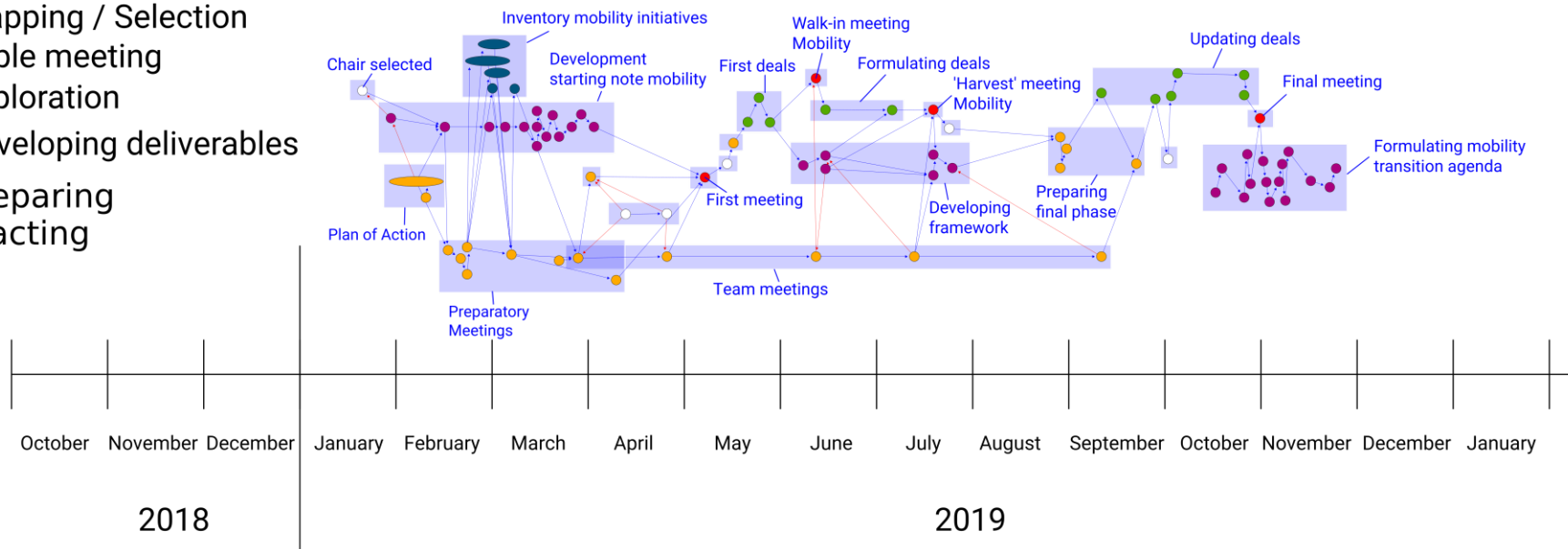


Transition governance mix



LEGEND

- Planning / preparation
- Mapping / Selection
- Table meeting
- Exploration
- Developing deliverables
- preparing
- ← reacting



Urban mobility transition

Pricing

'Omgevingsvisie'

Optimization

Zoning plans

Destabilization

Zero emission zone

Circulation plans

Traffic rules

Fietsen op Zuid

E-logistics

Free floating

Cooperative sharing

City Lounge

Healthy schools

Acceleration
Happy Streets/
Parking day

Local green

Parklets

Citizen infra

Emergence

Fossil subsidies

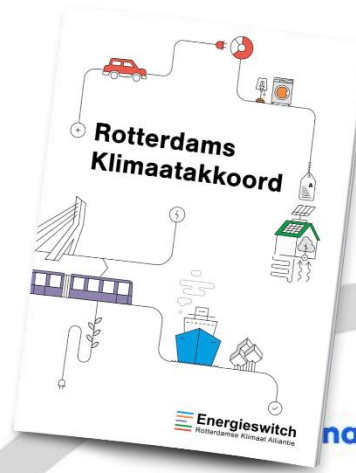
Street parking

Standard street design

Individual fossil car

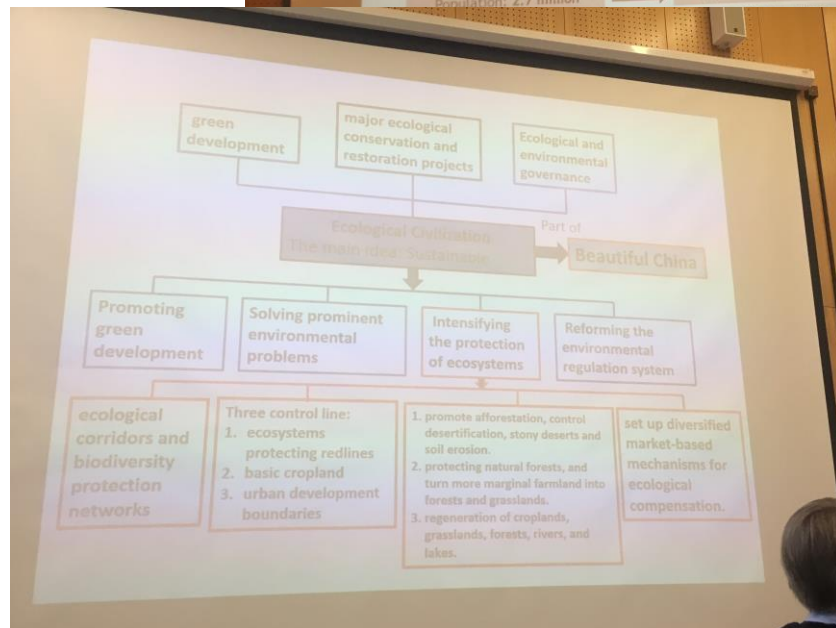
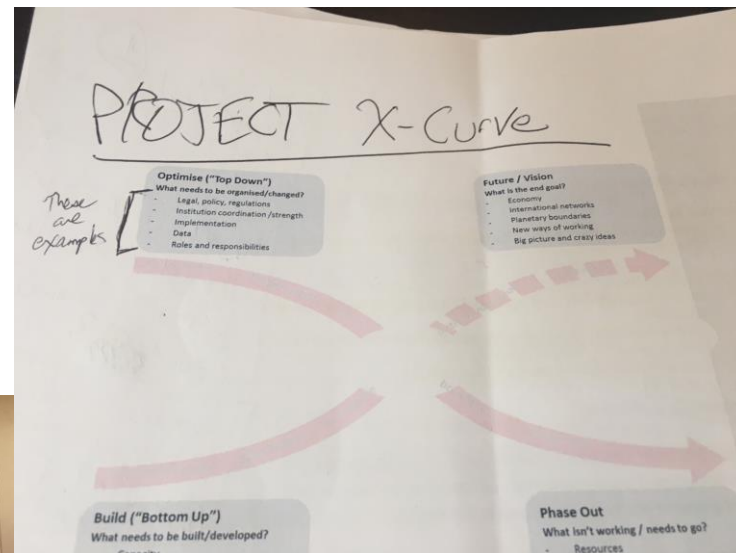
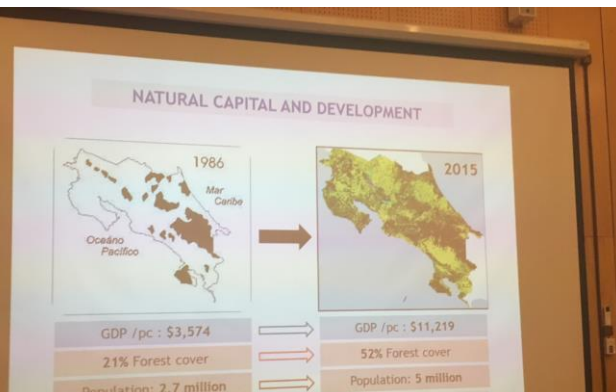
Breakdown

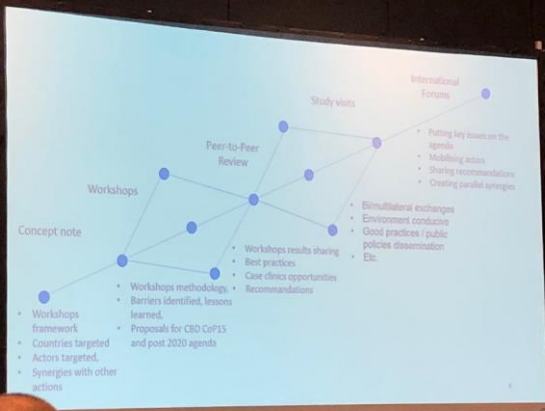
Phase out



- 100% Emission free
- Affordable and fun for all
- 60% reduction of cars
- Slow has right of way
- Healthy living environment







COP14



COP14 Side-event Invitation

TOWARDS POST-2020

Which are the lessons learnt from the preparations and the recent diplomatic achievements in international environmental and sustainable development negotiations to reach an ambitious and effective follow-up to the Strategic Plan for Biodiversity?

Sunday, November 18, 6:15 p.m.
El Wadi contact group 6 room - building 1

Financed by  Organised by 



"Transformative change"

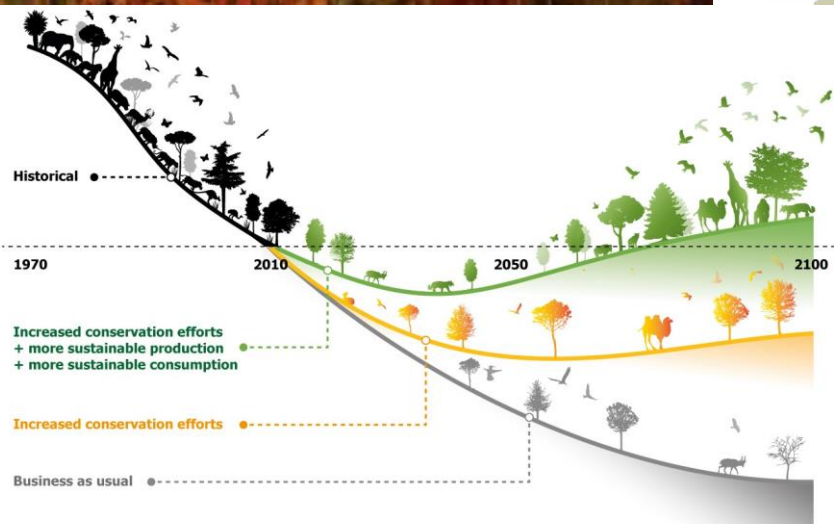


means a fundamental, system-wide reorganization across technological, economic and social factors, including paradigms, goals and values.

By its very nature, transformative change can expect opposition from those with interests vested in the status quo.

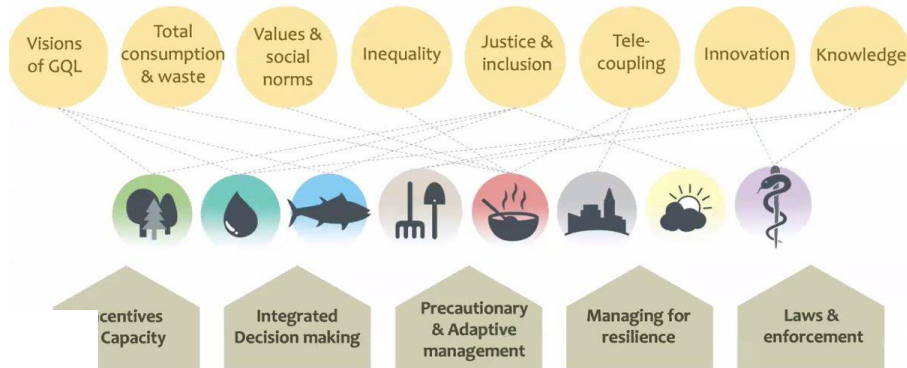
But such opposition can be overcome for the broader public good.*

—IPBES
Global Assessment



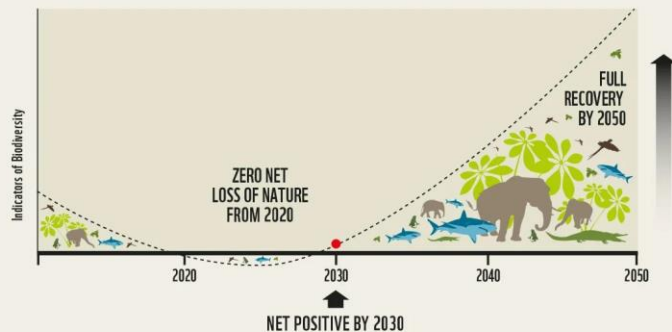
This artwork illustrates the main findings of the article, but does not intend to accurately represent its results (<https://doi.org/10.1038/s41586-020-2705-y>)

LEVERAGE POINTS



LEVERS for transformative change

Global Goal for Nature: Nature Positive by 2030



Transitions in the making?

"The people of the world do not want half measures or empty promises. They are demanding transformative change that is fair and sustainable... Together, let us kick-start a decade of delivery and action for people and planet."

António Guterres, Secretary-General of the United Nations



Neste and Mirova back Recycling Technologies to accelerate transition to circular economy for plastic

NESTE

mirova
Investing in sustainability

Recycling Technologies

The EU Green Deal

The European Green Deal is about **improving the well-being of people**. Making Europe climate-neutral and protecting our natural habitat will be good for people, planet and economy. No one will be left behind.

The EU will:



Become climate-neutral by 2050



Protect human life, animals and plants, by cutting pollution



Help companies become world leaders in clean products and technologies



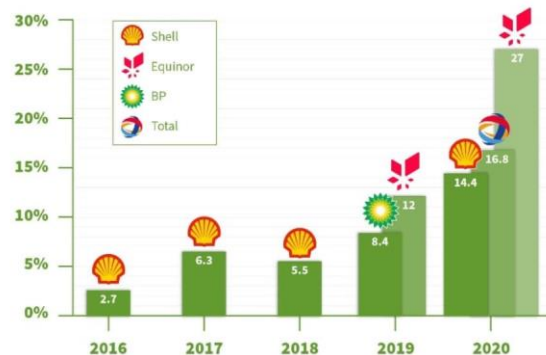
Help ensure a just and inclusive transition

Votes for Climate Resolutions

Follow this

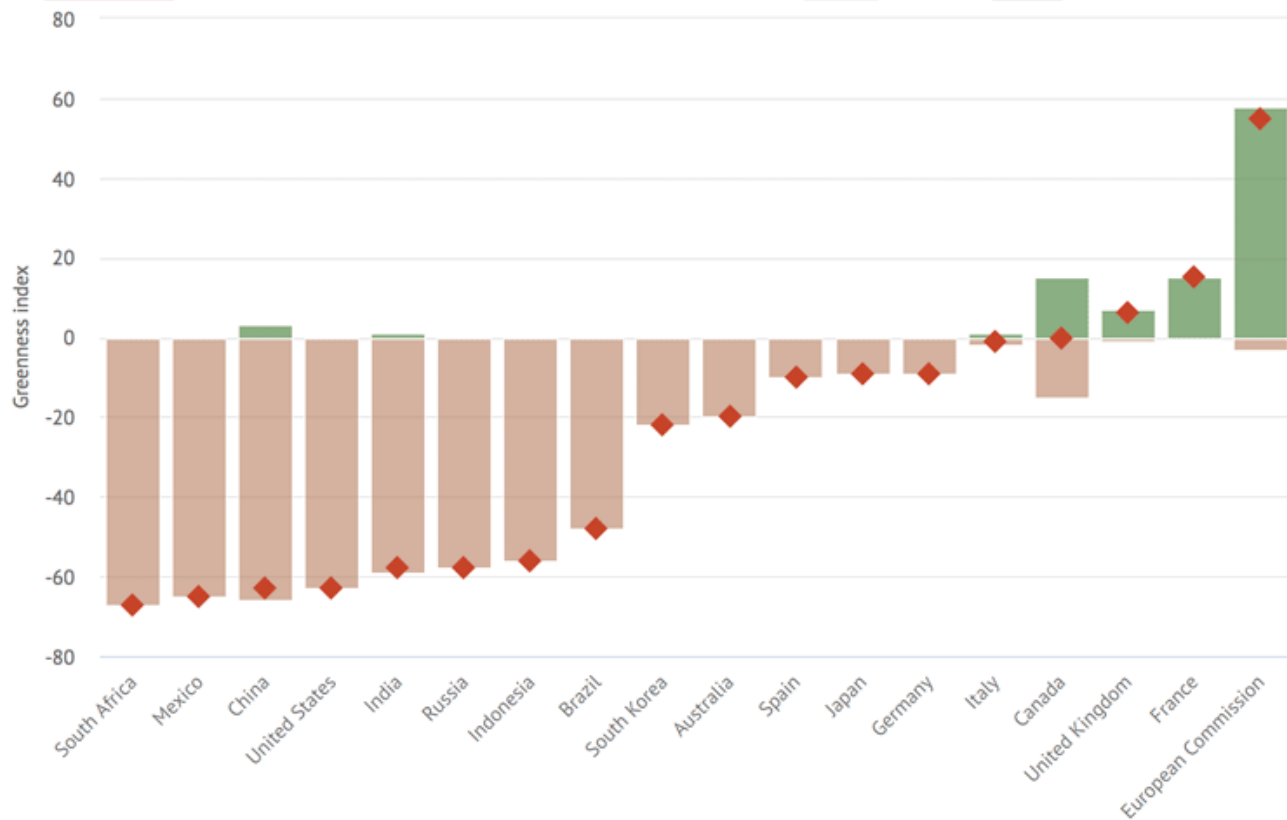
Shareholders support the company to set Paris-aligned targets for all emissions (Scope 1, 2, and 3*)

* Scope 3 = product emissions
Total: filled by institutional investors



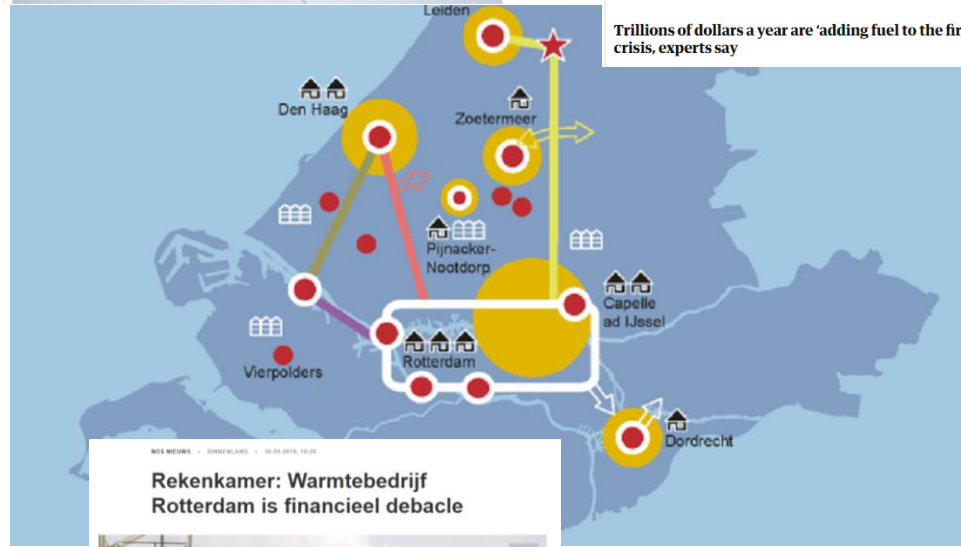
'Potentially damaging' stimulus measures dominate so far, according to Vivid Economics

The **overall ratings** in Vivid's "Green Stimulus Index" are dominated by measures it rates as **"brown"** rather than **"green"**



UK to offer £265m in subsidies for renewable energy developers

Wind, solar and tidal projects will compete for contracts, including funding for onshore schemes

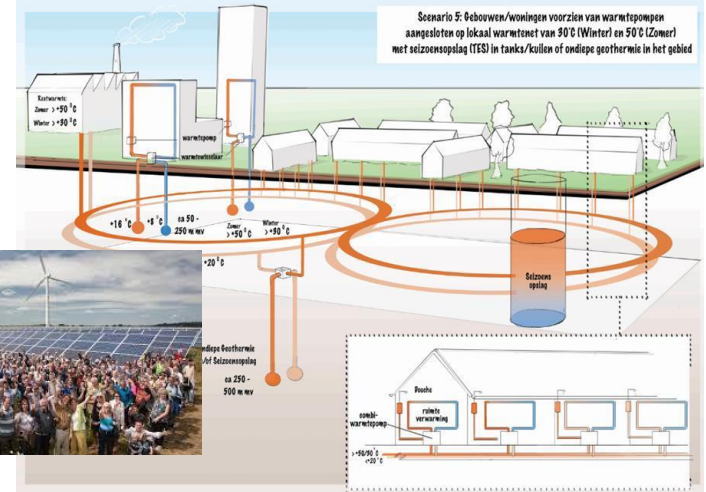


Fossil fuel industry gets subsidies of \$11m a minute, IMF finds

Trillions of dollars a year are 'adding fuel to the fire' of the climate crisis, experts say



Rekenkamer: Warmtebedrijf Rotterdam is financieel debacle







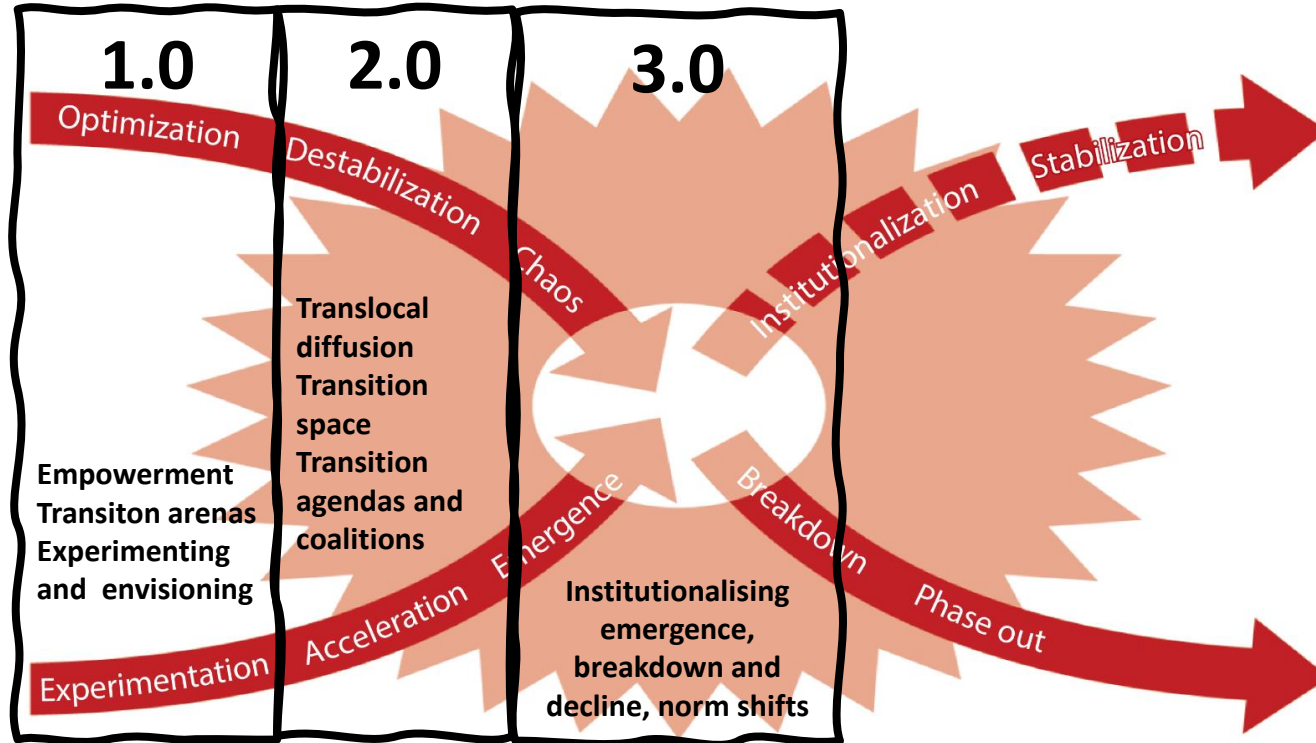
NEWS

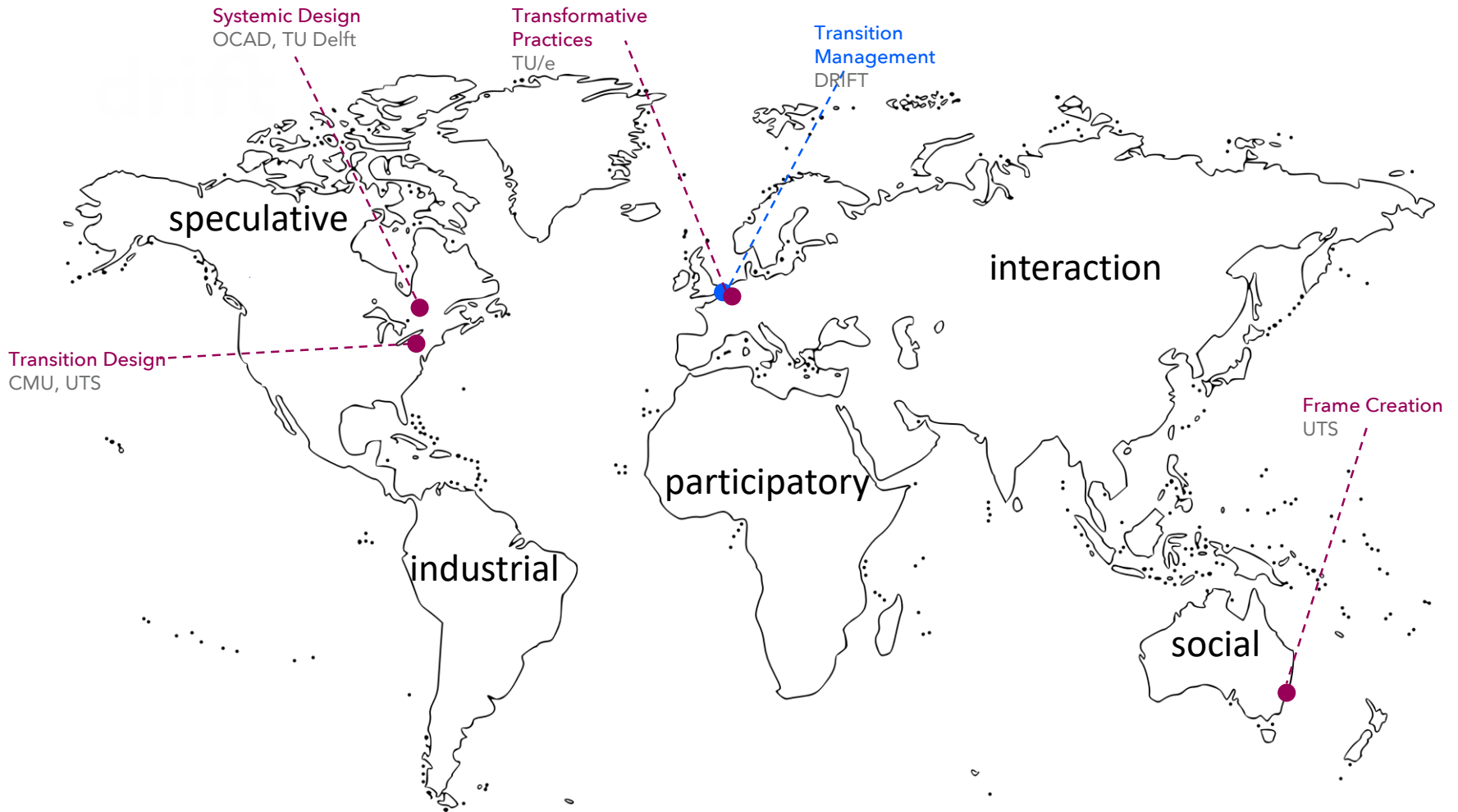
Germany to pump additional €3 billion in ailing automotive industry

The investment will extend a subsidy for electric vehicles and attempt to secure jobs that are in jeopardy due to the coronavirus pandemic. The announcement follows talks between Chancellor Merkel and industry heads.



Catalyse radical transitions, develop socio-political momentum,
accelerate breakdown





Making radical transitions visible

Commons
based local

Social
shared
mobility

Nature
positive new

Ecological
infrastructure

Regenerative
nature

29.03.2021

DERK LOORBACH APPOINTED CHIEF CURATOR 10TH IABR, SHOCK AND ROLL (2022)

The board of the International Architecture Biennale Rotterdam (IABR) has appointed director of *Dutch Research Institute for Transitions* (DRIFT) and professor of Socioeconomic Transitions at the Erasmus University Rotterdam's *Erasmus School of Social and Behavioural Sciences* DERK LOORBACH as chief curator of the next edition of the IABR, SHOCK AND ROLL.

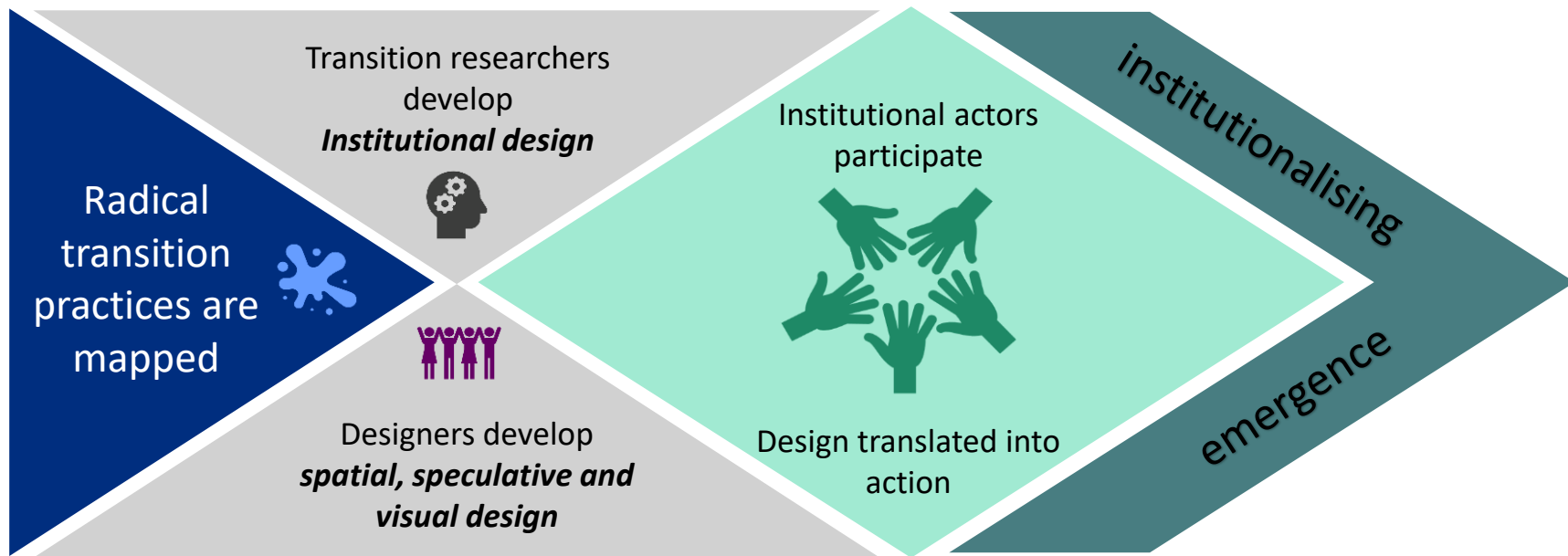
SHOCK AND ROLL will open in the fall of 2022 and is the first in a new series of biennales that will go all out for transition. The series will focus on the urgent need to put into design practice the all-embracing change to which science incites us, which the Paris climate objectives call for, to which the global community aspires to attain.

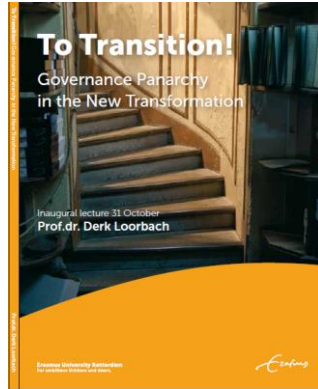


- Global call for transition practices
- TM 3.0 process
- International exhibit and cultural program fall 2022

- ▶ Design usually starts from within the system, whereas transition starts from outside the system
- ▶ Design works more tangible whereas transition works more cognitive
- ▶ Designers try to be inclusive within their processes, whereas transition is more selective

'Development by design'





For more information and publications:

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www.drift.eur.nl

www.twitter.com/drk75

Erasmus