Janrotmans

World in Transition: what does it mean to Taranaki?

Rotterdam, 02 August 2021





URGENCY

We do not live in an era of change but in a change of era

CHAOS





IT'S ALL CONNECTED-WACKY JETSTREAM

PARIS

BARCELONA

DEALLE

STREAN

CHICAGO

W YORK

TRAPPED STORM= HISTORIC FLOODS

ATHENS

FRANKFURT

World in System's Crisis

economic crisis

ecological crisis

SYSTEMS

democratic crisis

moral crisis

Financial-Economic Crisis

economy is wasteful, polluting & sickening

growth at the cost of spend money that there isn't globalisation leads to inequality

Corona Crisis

impacts deeply on our vital systems [health care, food, mobility, education]

uncovers system failures

[efficiency, return on investment, short term]

Deepest Cause

disbalance between humans and nature and the way we deal with animals



if we do not change our behaviour there will come another pandemic with more impact

Ecological Crisis

we destroy more ecological capital than financial capital

we produce at the cost of the earth we borrow resources but we don't pay back

financial deficit = 3% ecological deficit = 35%

Anthropocene

DIFFERENCE BETWEEN 1.5 AND 2 DEGREES

1.5 DEGREE

- Ice at Northpole
- Coral bleaching
- 40-50 cm sea level rise
- Heat waves of 4 weeks
- Extreme drought 200 million

2 DEGREES

- Northpole ice free
- Coral dying
- 60-70 cm sea level rise
- Heat waves of 8 weeks
- Extreme drought 400 million

WILL WE SUCCEED?

chance that we stay below 1.5 degrees: almost zero

chance that we stay below 2 degrees: is still possible

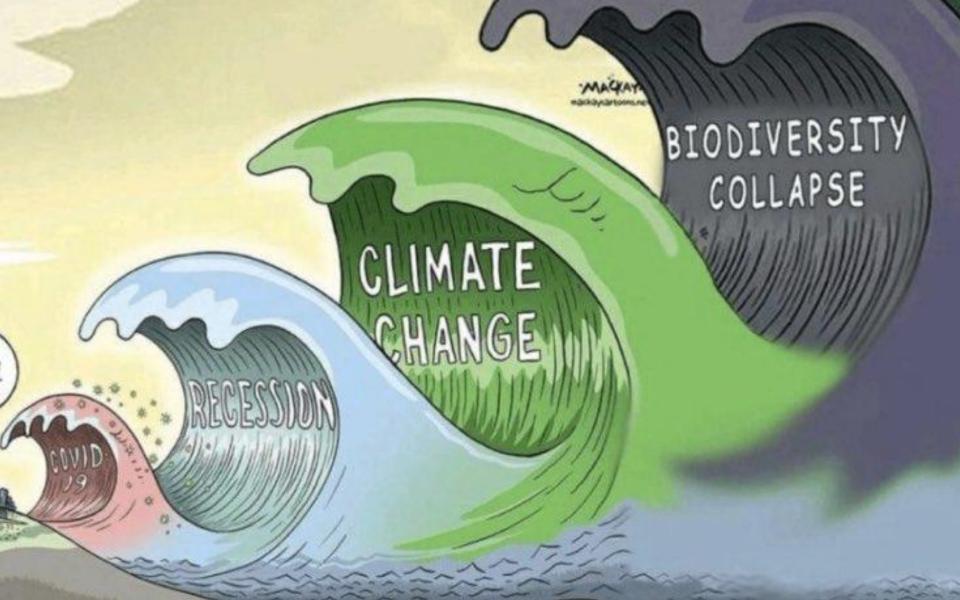
we are heading for 3-4 degrees temperature increase

We need to fight for every tenth of a degree

Moral Crisis

Norms & Values Greediness & Egoism

crisis is in ourselves



We stumble from one crisis to the other the coming decades

Crises are blessing in disguise

people are stubborn

real behavioral change only during crises

Crises facilitate Change

5-10% of people change after a systemic crisis

we need a series of crises to really change

25% of people means tipping point is reached

the world won't be entirely different after corona

WE NEED SYSTEMIC CHANGE: TRANSITION

Transition



Transition Governance

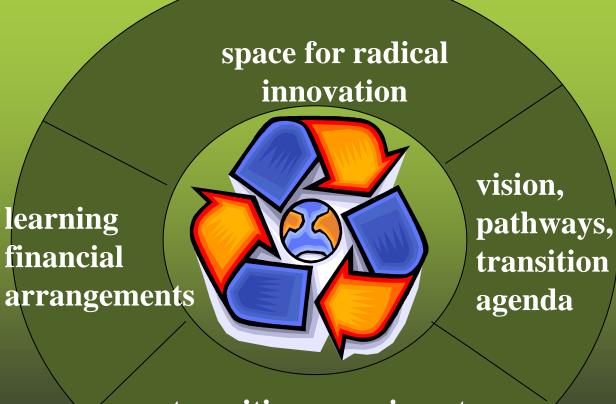
create innovation spaces for radical innovation

removing **barriers** for the transition

challenge the market and mobilise society

long-term thinking and short-term action

Transition Governance



transition experiments

Organic Planning

transitions are whimsical, chaotic processes that cover at least 2 generations and can't be directed as a project

transitions require planning, but not classical planning, more organic planning, with moving targets and continuous adjustments based on what you learn

Applications

in more than 20 countries and 50 cities all over the world

rich amount of literature within DRIFT and other places

applied in hometown of Rotterdam in districts

2

NEXT ECONOMY

OLD ECONOMY

- Economic Business
- Deriving Values
- Financial impact
- Fossil
- Linear
- Possession

NEW ECONOMY

- Impactful Business
- Creating Values
- Societal impact
- Clean
- Circular
- Usage

Societal Impact

Tesla solve energy problem

Unilever reduce climate change

TNT reduce poverty

Shell contributes to climate change



SHELL 3.0

In 20 year phasing out gas and oil

In 20 year building up sustainable energy

leadership in hydrogen economy

requires different culture and structure

OLD ECONOMY

- Banks
- Energy companies
- Taxi companies
- Hotel chains
- Book shops
- Record Companies

NEW ECONOMY

- Fintechs
- Google, Tesla, van de bron

' - UBER

- Airbnb

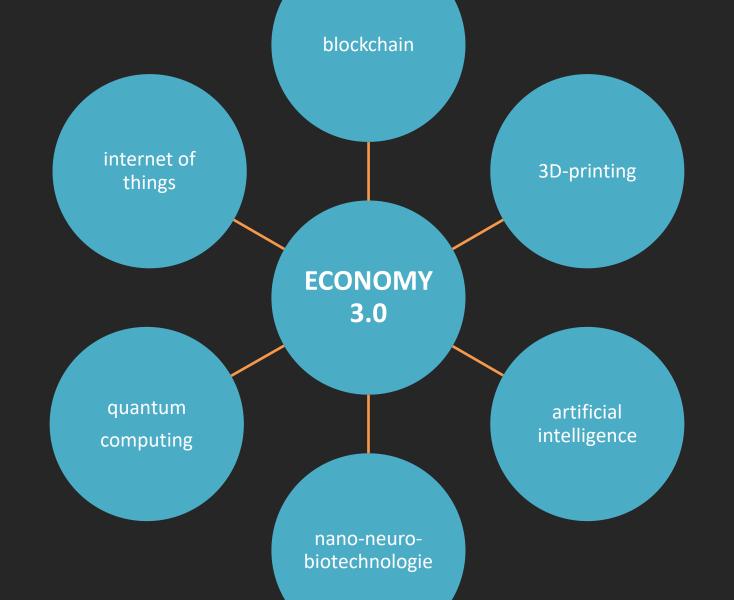
- Bol.com
- Spotify

DISRUPTION

disruptive innovations whatsapp, Iphone

disruptive technologies blockchain, 3D-printer

disruptive companies uber, airbnb



FUNDAMENTALLY CHANGES

our economy

production, distribution, stock management

our life

living, working, shopping, communicating



UBER DIGITAL PLATFORM

UBER connects drivers to passengers



WITHIN 5 YEARS...

There is an UBER for Building



BLOCKCHAIN IN PORT OF ROTTERDAM



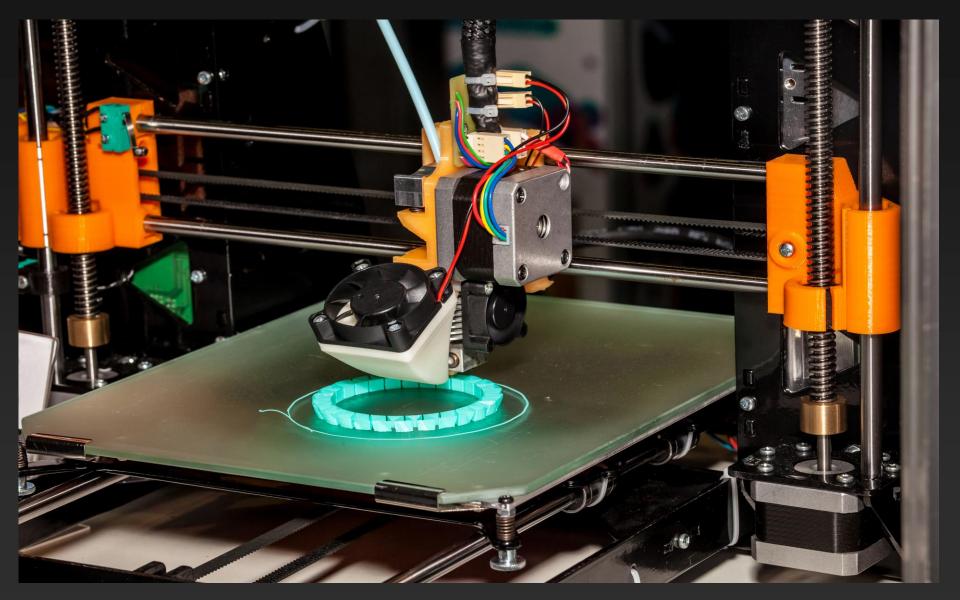
BLOCKCHAIN WILL CHANGE LOGISTIC CHAIN

chain becomes transparant and efficient

any moment visible where load is

redundant links diappear from the chain

only parties who create values will remain







IKEA 3.0 has new Business model

circular model

waste = resource = income

producer remains owner of the resources

producer is responsible for the resources

products return to IKEA in resources depot



IKEA is supplier and processor of resources

product = collection of re-usable resources

Return of Next Economy

every \$ invested in the NEXT economy yields 3 \$ return

innovation | employment | economic structure

every \$ invested in the OLD economy costs society 3 \$ pollution | climate change | health effects

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NEXT SOCIETY

OLD SOCIETY

- Top-down
- Central
- Collective
- Equality
- Silos

NEXT SOCIETY

- Bottom-up
- Decentralized
- Personalized
- Each his own
- Fluid

Transformation of social sectors

Labour Market personalized, no distinction between fixed & flex

Pension System personalized, no guarantees, freedom for youth

Health Care

personalized, more simple, more honest

Education

personalized, digital, international

Democracy

inclusive, guardianship, local & regional

Roadmap Next Economy R'dam-DenHaag

THIRD INDUSTRIAL REVOLUTION

HOW LATERAL POWER IS TRANSFORMING ENERGY, HE ECONOMY, AND THE WORLD



CHANGE OF OR WORLD IN TRANSITION ERA JAN BOM



Key Questions

where do we earn our money with in 20 years?

how will the labour market develop in our region?

what kind of skills are needed for the next economy?

how many and what kind of investments are needed?

Organised as a **Tribe**

core group of 5 people [bureaucrats, scientist, entrepreneur]

thematic teams

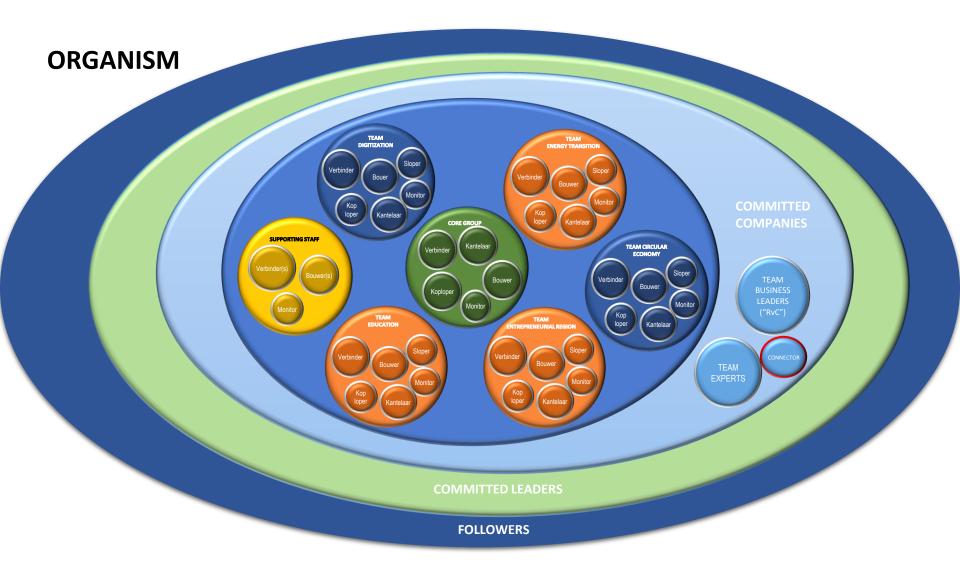
[around transition paths]

strategy group

[public/private strategic people]

bunch of followers

[hundreds of people]







Smart Energy Delta Towards zero carbon

Circular Economy Towards zero waste

Entrepreneurial Region Towards new productivity

Next Society Towards an inclusive society



ROADMAP NEXT ECONOMY

VISION 2050

zero carbon zero waste circular digital connected

entrepreneurial smart inclusive

Vision-Strategy-Action

vision cleanest & smartest region of Western-Europe

strategy alignment between 5 transition pathways

action projects / business cases

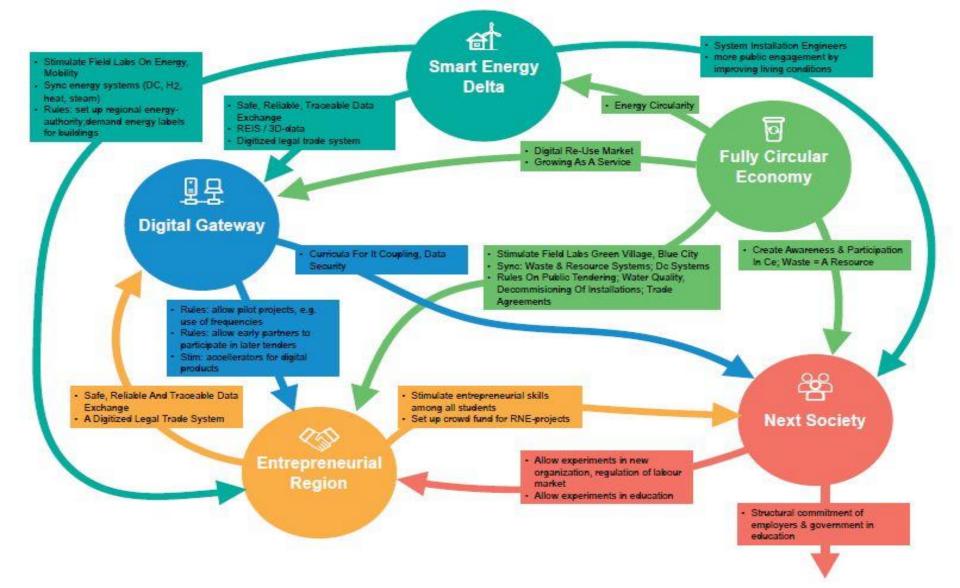
Integral Systemic Approach

alignment between

- vision, transition pathways, projects

- transition pathways

- projects [enabling, carrier, icon]



Projects



- Truck Platooning
- Smart Public Nodes
- Waste2Chemicals
- Smart & Gasfree Neighbourhoods
- Geothermy
- Airport as Innovation hub
- Cyber Test Proeftuin
- Campusses
- Health Data Cooperation

Transition path 1,2 Transition path 1 **Transition path 3** Transition path 1,2,3 Transition path 2 Transition path 4,5 Transition path 1 Transition path 4,5 Transition path 5

Energy-Producing Roads



Digitally connected Trucks



Next Generation Urban Areas



Digital

Houses decoupled from gas







Transforming old Harbour Areas



Merwe-Vierhavens: Maker District



Building on Water

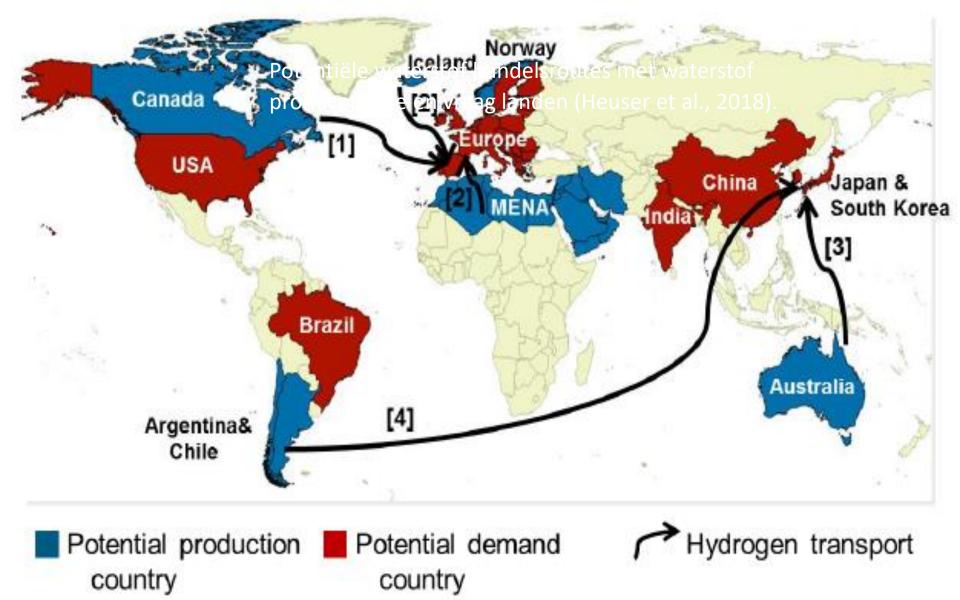






Green Hydrogen Factory





Floating Solar Panels





LESSONS LEARNED

Social Innovation

75% of innovation success is due to social innovation, not due to technical innovation

competence development making people smarter flexible, dynamic organising co-creation, ci-production

software (people) at least as important as technology

Diverse Impulses needed

financial impulses

juridical impulses

institutional impulses

mental impulses

Legal Impulse

20 juridical barriers for the new economy

operational, structural and fundamental

structural barrier

residual currents considered as waste in law

Financial Impulses

money is not the problem, there is plenty of it

problem is to get money to the right places

investing in risky breakthrough projects

Mental Impulse

scale jump is needed

a big, ambitious story is needed

mental barrier is underestimated

lack of imagination among people

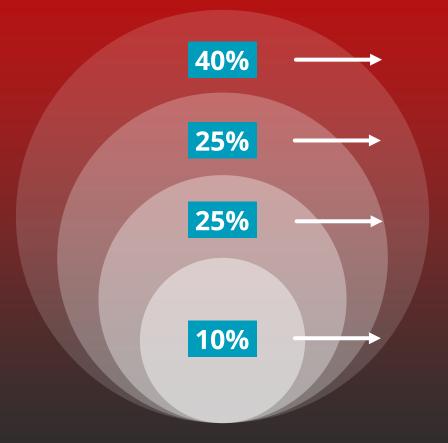
Breakthrough Coalitions

Coalition of the Willing & Able is crucial

don't try to get everyone on board

pace determined by the fastest, not the slowest

FEAR OF CHANGE



people who cannot and do not want to change people who can change but do not want people who want to but cannot change people who can ánd want to change

Role of Government

first a initiating & directing role

later a more facilitating role

giving direction & providing space

connecting people, parties, projects

Frame it in attractive way

transition yields 200,000 jobs in region

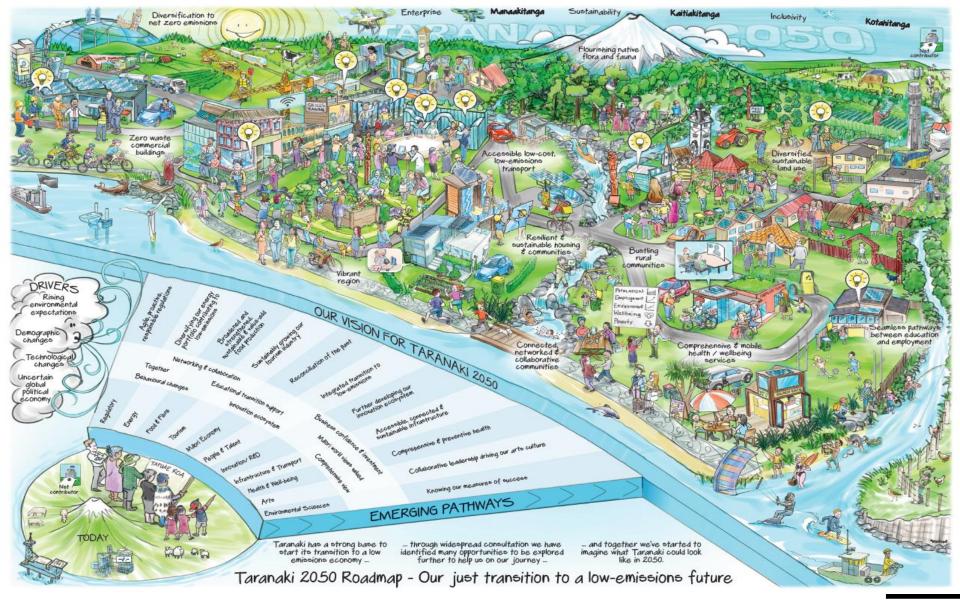
in particular for youth in poor districts

emerging ecosystem of startups & scale-ups

clean work with high wages

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Reflection on the Taranaki Roadmap



Children involved!



Taranaki Roadmap 2050

inspiring!

ambitious

well thought-out

many stakeholders involved

breaths optimism

Reflection I

I hink it is a bit technocratic

'shaping a low emissions future'

oriented towards climate change

sector-reduction of CO2-emissions

Transition to a new economy is not the same as a low-carbon economy

Reflection II

I miss the process of 'how'

maintaining spirit is a challenge

broad process with many engaged

frontrunners-peloton-laggards

pace determined by frontrunners

Don't try to engage everybody, focus on a coalition of the willing & the able

Reflection III

I miss a bit multi-sectoral approach

I miss a bit the cross-cutting themes

digitization and circular economy

education and inclusive society

social innovation is really important

Don't focus on a sectoral approach but try to address cross-sectoral themes

Reflection IV

I miss a bit the multi-actor approach

number of actor is not key but type of actors

influencers, sociale networks, ambassadors

roadmap might spread like a 'virus'

social-pyschological aspect is important

engage those actors who could spread the vision and approach like a 'virus'

Reflection V

I miss a bit the learning process

learning-by-doing & doing-by-learning

register everything that is being learned

you learn most from your failures

try to depolitise the Roadmap process and make it society- & business driven

Reflection VI

I miss a bit the evolutionary approach

transition is an evolutionary revolution

formulate intermediate steps for 2030 & 2040

formulate concrete goals for 2030 & 2040

make the process as concrete as possible

with tangible goals and intermediate results

frame the process in social & economic gains

in terms of employment/innovation/inclusion

how many jobs created in 2030? and in 2040?

how many Maori people could be employed?

breakthrough projects are important to keep the energy in the process high

Taranaki is a frontrunner in New Zealand and you may be really proud of that! Everybody said it was impossible until somebody stepped by who didn't know that