#### 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**

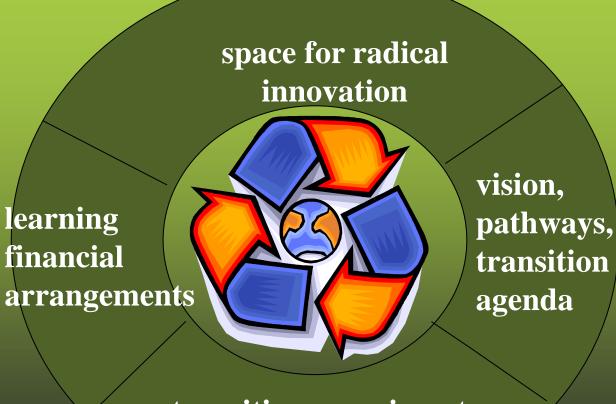
create innovation spaces for radical innovation

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

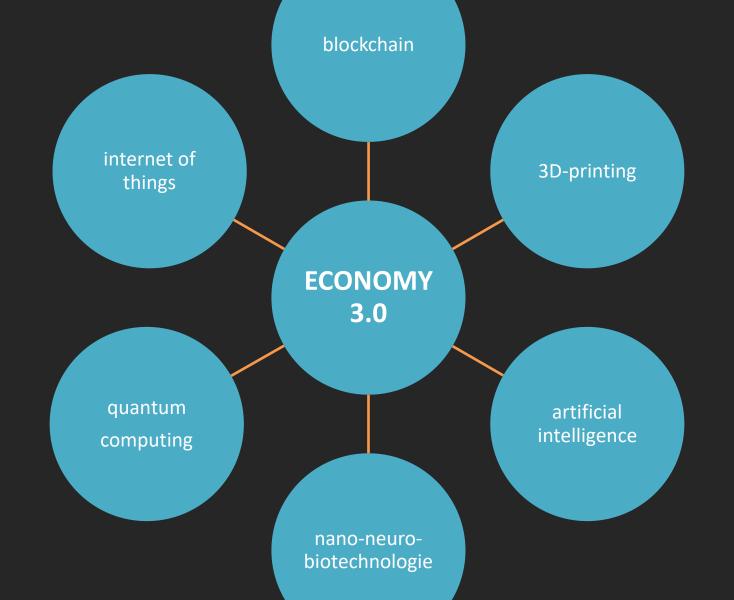
- Bol.com
- Spotify

## 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**



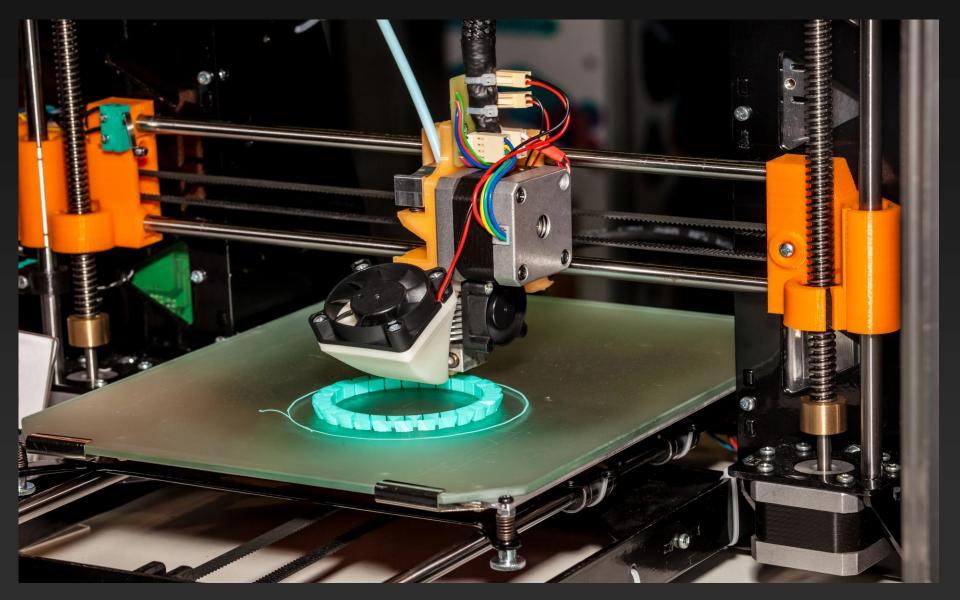
#### **BLOCKCHAIN WILL CHANGE LOGISTIC CHAIN**

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

3

# **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

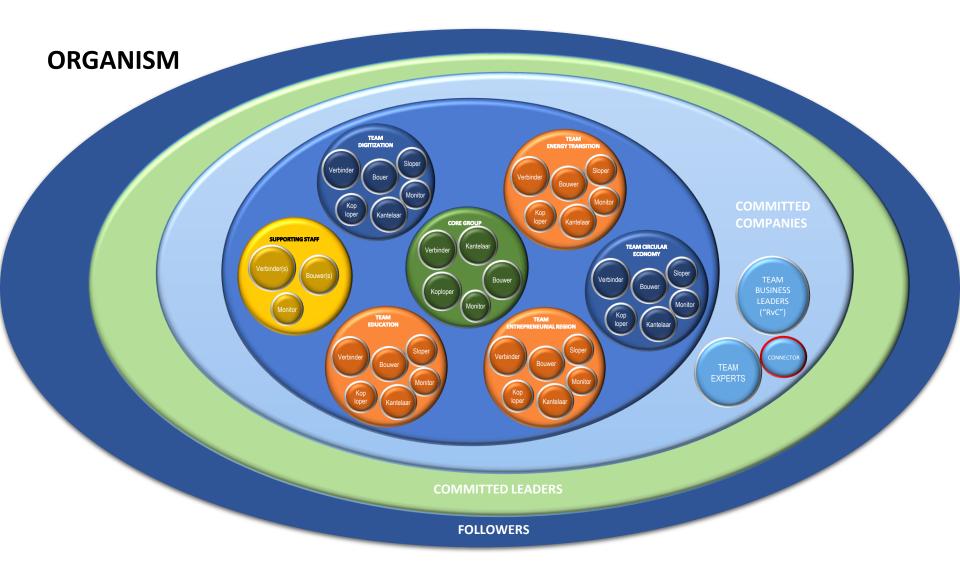
[around transition paths]

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

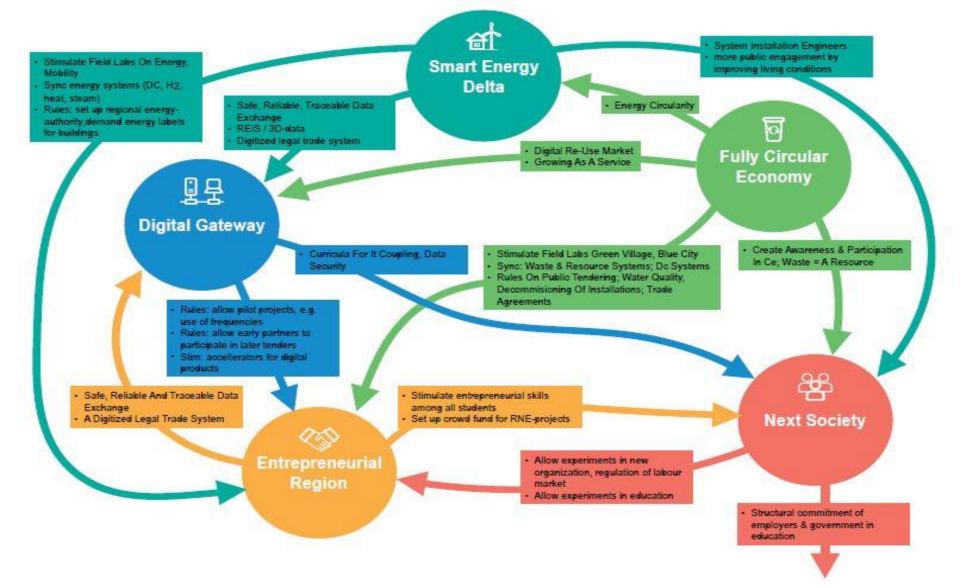
## **Integral Systemic Approach**

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**

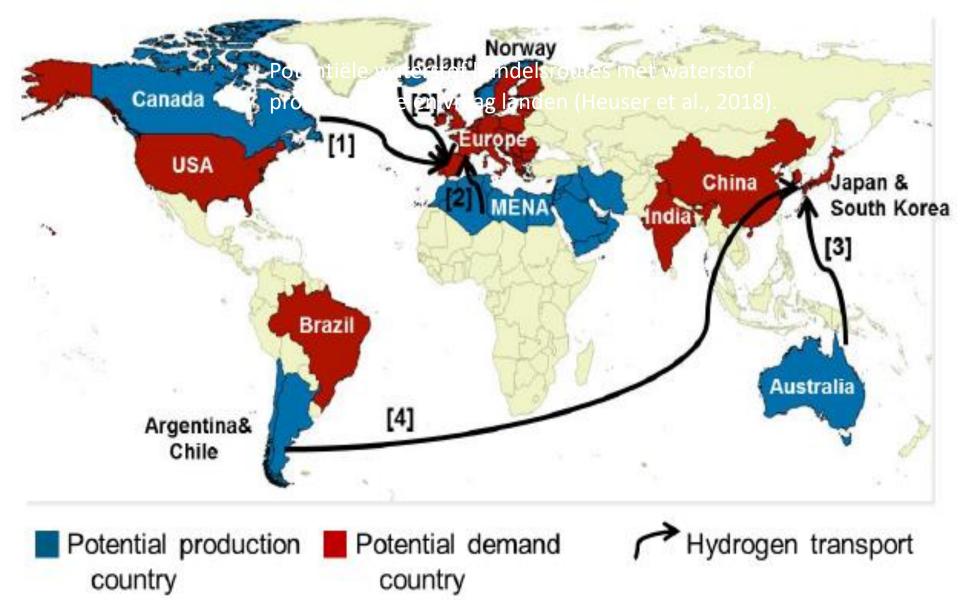






#### **Green Hydrogen Factory**





#### **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

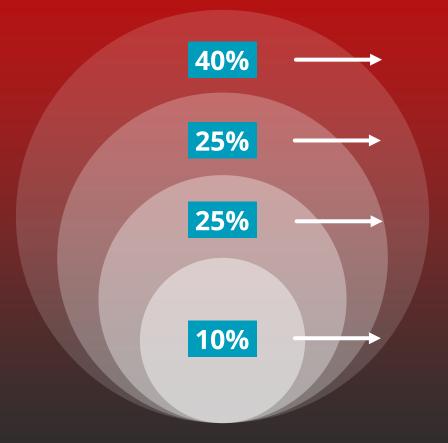
### **Breakthrough Coalitions**

#### 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

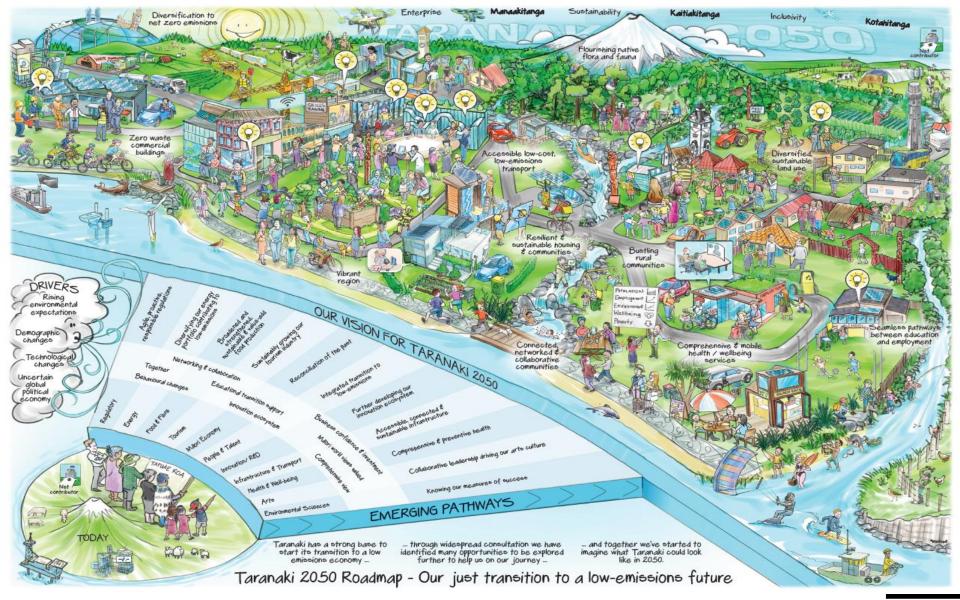
in particular for youth in poor districts

emerging ecosystem of startups & scale-ups

clean work with high wages

5

# 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