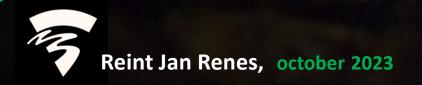
The Climate Conundrum

On the psychological challenges of sustainable behaviour





Brenda had decided to live a more environmentally conscious life

Cartoon van Jip van den Toorn (10 mei 2022)



NOW





PROBLEM

Creating Tomorrow



AR6 Climate Change 2021: The Physical Science Basis

Special Report

Climate Change 2022: Impacts, Adaptation and Vulnerability

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stal ranti on climate change

Climate Change 2022: Mitigation of Climate Change

Global Warming of 1.5°C

As IRCC Special Report on the impacts of plobal warming of 1.5

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(d) (e)

ipcc The Ocean and Cryosphere in a Changing Climate Climate Change and Land An IPCC Special Report on climate change, desertification and degradation, sustainable land management, food security

Summary for Policymakers



Ocean and Cryosphere in a Changing Climate

Climate Change and Land

NGI XWGIIXWGII

enhouse gas fluxes in terrestrial ecosyst

Global Warming of 1.5 °C

WGIXWGI

"The scientific evidence is unequivocal: climate change is a threat to human wellbeing and the health of the planet. Any further delay in concerted global action will miss the brief, rapidly closing window to secure a liveable future. This report offers solutions to the world."



IPCC: Onmiddellijke versnelling mondiale klimaatactie nodig om doel 1,5 graden nog te kunnen halen

04-04-2022 | Nieuwsbericht

Het doel van het klimaatakkoord van Parijs - het streven om de opwarming van de aarde beperkt te houden tot 1,5 graden - raakt buiten zicht, tenzij landen gezamenlijk meer ambitie tonen en onmiddellijk in actie komen. Dat stellen de vijf Nederlandse klimaatexperts die aan het vandaag verschenen IPCC rapport hebben bijgedragen. Een dergelijke versnelling en versterking van beleidsmaatregelen is nog mogelijk maar vereist een verregaande transformatie van de systemen die ten grondslag liggen aan onze economie, zoals energie, industrie, transport en landbouw. De komende jaren zijn daarbij doorslaggevend. Dit zijn enkele van de belangrijkste conclusies van het IPCC-rapport dat vandaag is gepubliceerd.







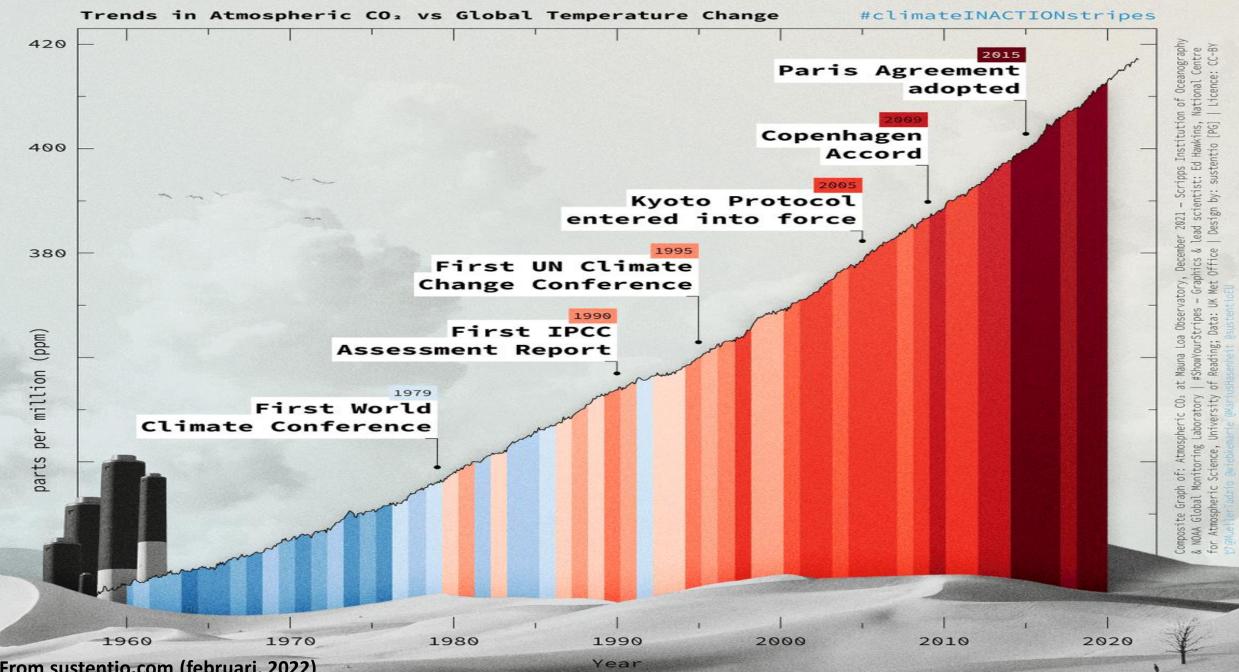
DUTCH PRIME MINISTER: NEED TO GO FROM 'BLAH BLAH' TO ACTION



"We need to step up, and rapidly deliver on the promises we've made."

Dutch PM Rutte, Climate Summit Egypt, 7 november, 2022





From sustentio.com (februari, 2022)

THE CLIMATE IS CHANGING WHY AREN'T WE?



Hogeschool van Amsterdam

Research Group Psychology for Sustainable Cities

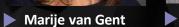
Creating Tomorrow

LECTORAAT PSYCHOLOGIE VOOR EEN DUURZAME STAD



Reint Jan Renes





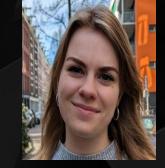
Loes Kreemers



Carlijn Kappers



Willemijn Vermeer



Danique Bredenoort



Eva Post



Milan Tamis



Helena Schmidt
Krispijn Faddegon



🕨 Melle Krikke



Ellen Abbes



Creating Tomorrow



Biodiversity in the city

Being aware of something and acting on it are two different things



'Action, action, action'

(PM Rutte Glasgow Climate Summit, November 1, 2021)

FALSE CONSENSUS



'Solution Aversion'

Steg & De Groot, 2019



Weather Extremes

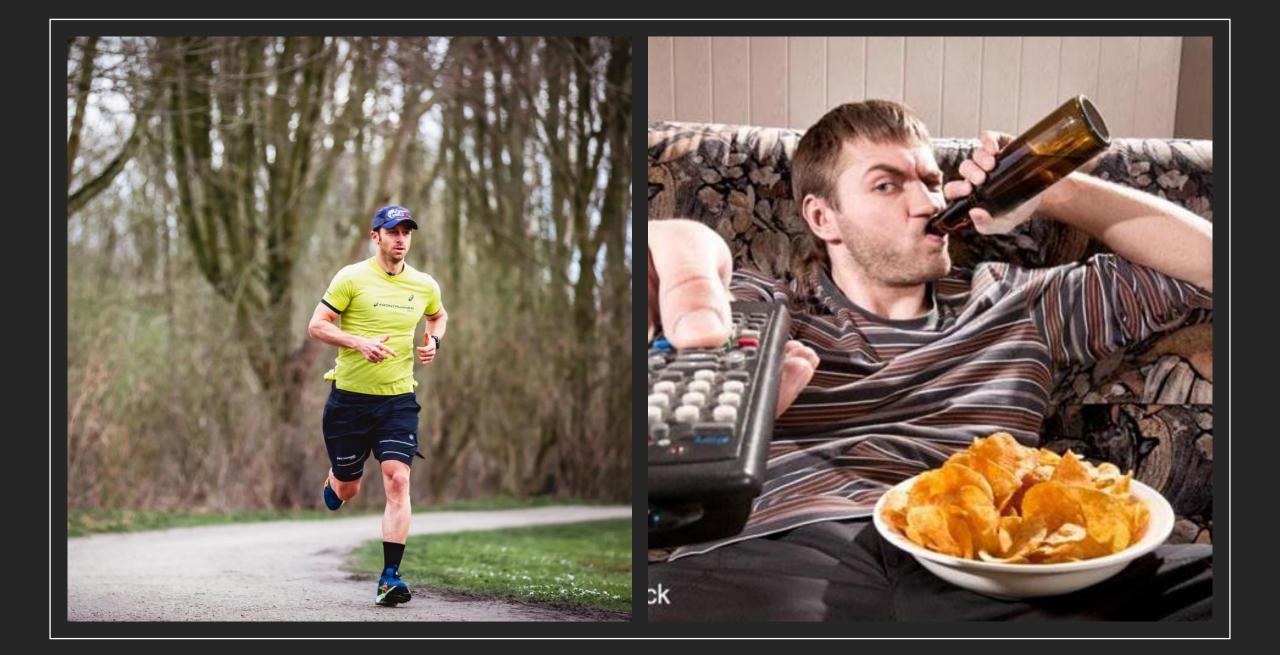


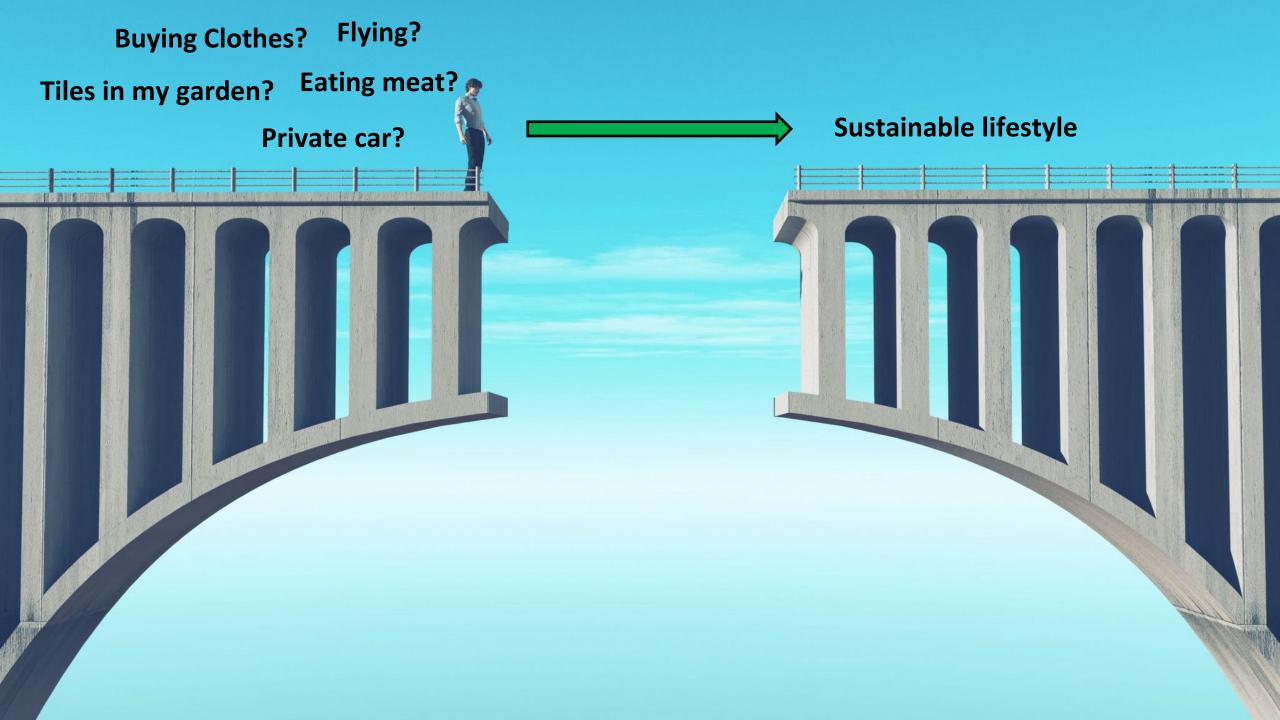


Motivational Ambivalence

"Having simultaneously positive and negative evaluations - regarding changing behaviour towards a more environmentally friendly lifestyle."

Van Gent et al., under review





Status quo bias 💰

Threat of the status quo

- Many sustainability measures threaten our established way of living and basic societal infrastructure.
- These measures have an impact on our "normal," established way of living and basic societal infrastructure
- This may be experienced as a threat that will result in losing our freedom and/or comfort ("fear of falling")

'Solution Aversion'

Steg & De Groot, 2019



Minister Harbers: 'Auto blijft belangrijk voor Nederland'

De auto is het populairste vervoermiddel in Nederland en zorgt er volgens minister Mark Harbers van IenW voor dat 'iedereen naar werk, familie of sport' kan. Hij vindt dus dat gemeenten door het hele land ruimte moeten blijven geven aan de vierwielers. 'Het beste tijdperk van de auto ligt nog voor ons.'

'Mensen willen en kunnen vaak niet zonder hun auto. Vanuit ons ministerie wordt geïnvesteerd in alle vormen van mobiliteit en dus zeker ook in autobereikbaarheid. Het wordt weer tijd dat de auto de prominente plek ook weer aan de gesprekstafels van de overheid krijgt, waarbij we kijken naar hoe de kracht van de auto kan worden ingezet om Nederland zo goed mogelijk bereikbaar te krijgen.'

'Beste tijdperk van auto ligt nog voor ons'

Mark Harbers, maart 2023





Climate change: citizens wait for companies, companies wait for the government, government waits for citizens

Onrealistic

optimism

'Moral Disengagement'











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Lack of (individual) ownership

Heel erg van Antarctica, maar ik koop tochgeen ledlampen

u-CC

we

DO OUR BEHAVIOURAL CHOICES MATTER?

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Households are jointly responsible for almost 75% of global CO2 emissions

(Druckman & Jackson, 2016)

20

An average person on Earth emits approximately 4.4 tons of CO₂ annually

Source: Klimaathelpdesk, 2020

How many tons of CO₂ does an average Dutch person emit on an annual basis?

 \succ 15,8 ton CO₂ (more than 3x as much)

Source: CBS, 2019



The richest 1% income group emits approximately 50 tons of CO₂ per year worldwide.

Source: Oxfam, 2020



The lowest 50% income group emits approximately 1 ton of CO₂ per year worldwide.

Bron: Oxfam, 2020

The top 10% of incomes ('high SEP') are responsible for 40 to 60% of global CO₂ emissions.

(Nielsen, et al., 2021)

20

'High-income group' is the largest driver of climate change worldwide











(Nielsen, et al., 2021)



Impact?





change private opinions. change norm perceptions. social support for others.

Bolderdijk en Jans, 2021



'High-income group' potentially the biggest driver of change.

Copingstrategies -1

Optimism Bias 'Oh well, we can solve it with smart techniques'.

Social validation 'All my colleagues around me still use the car for commuting'

Copingstrategies -2

Advantage Comparison "Do you know how much we are already doing compared to other Applied Universities?"

Source derogation "Those scientists come up with something new every year"

Copingstrategieën -3

Selective exposure "I recently read that all cars will soon run on hydrogen"

Moral Licensing "We already do waste separation"

The Challenge

How do we integrate psychological insights about behaviour into the climate transition?





Sustainable feints



Symbolic solutions, rebound effects and negative spillovers



What will it replace – or who will use it?

Car use

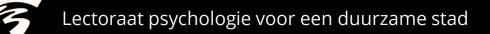
Active rides

Public transport



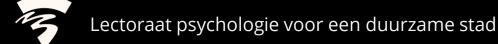






Shared transport in Zurich emits more CO₂ than the alternatives they replace.

Reck, Martin and Axhausen (2021)

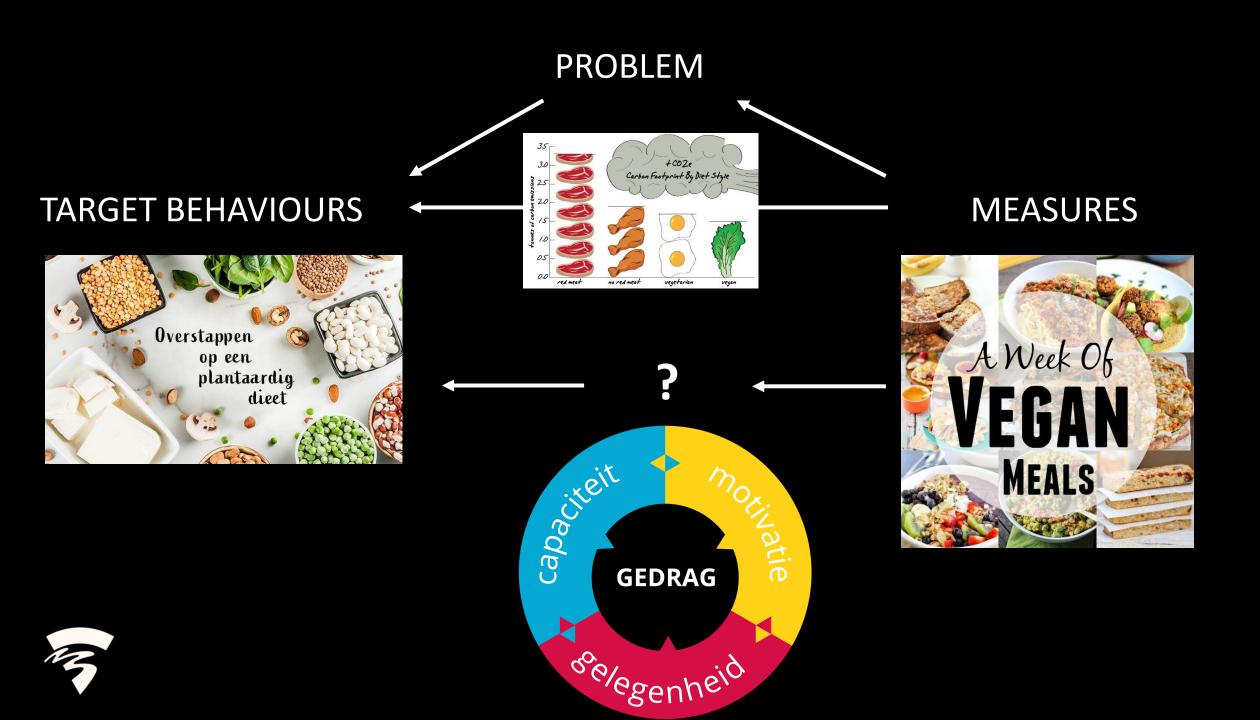




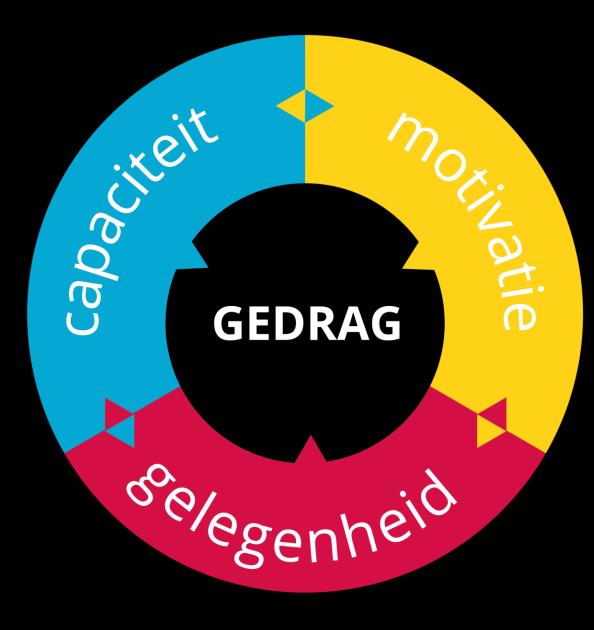
Explanations (and solutions) have multiple layers of depth

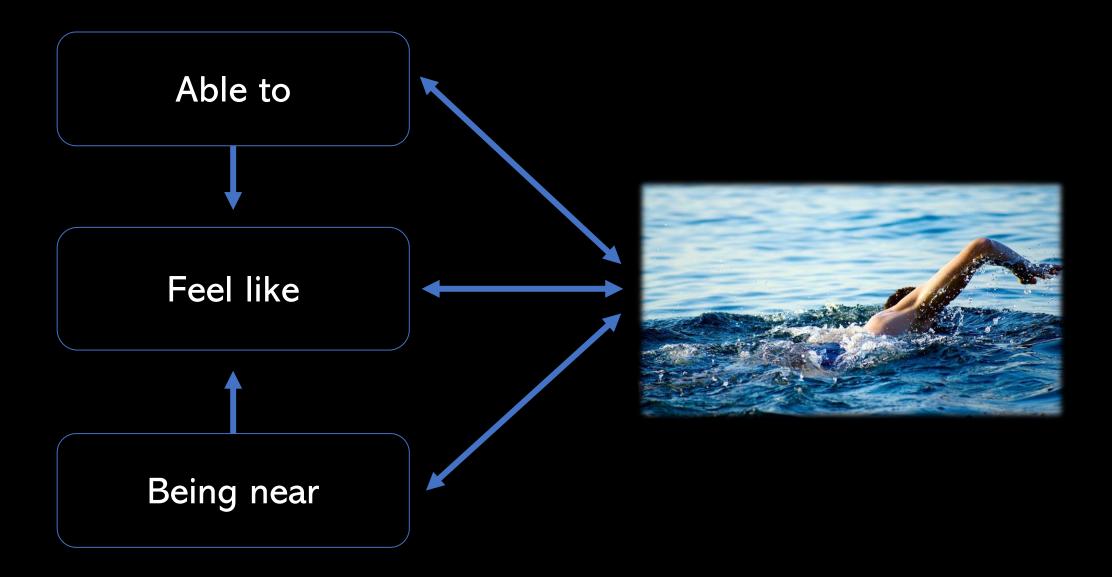
Dare to choose and solve puzzles in a targeted manner aven Crypt Cem

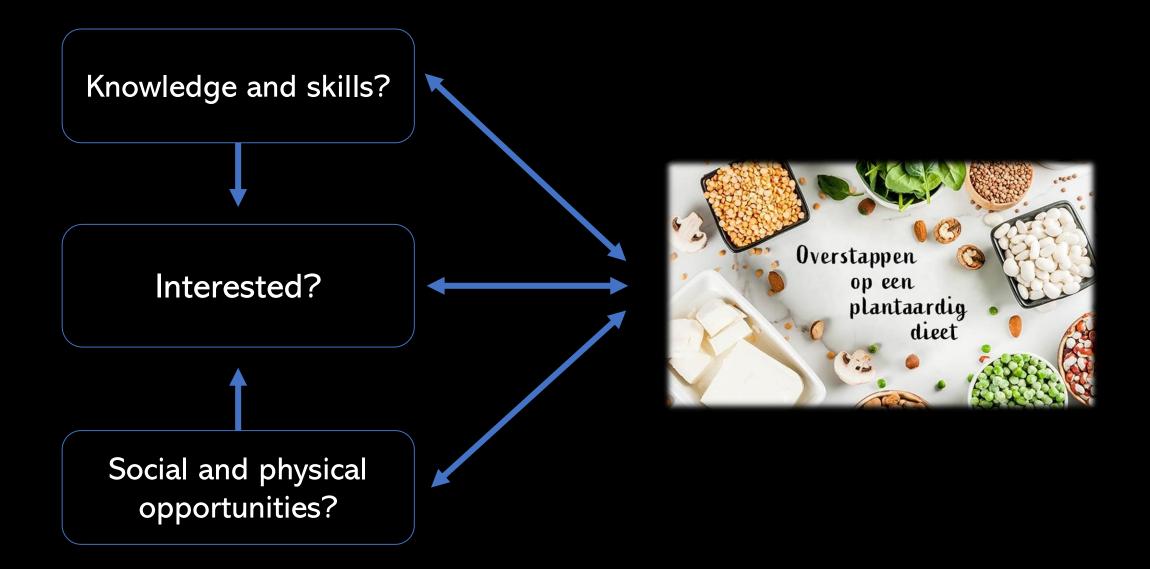
enter Church, Cem

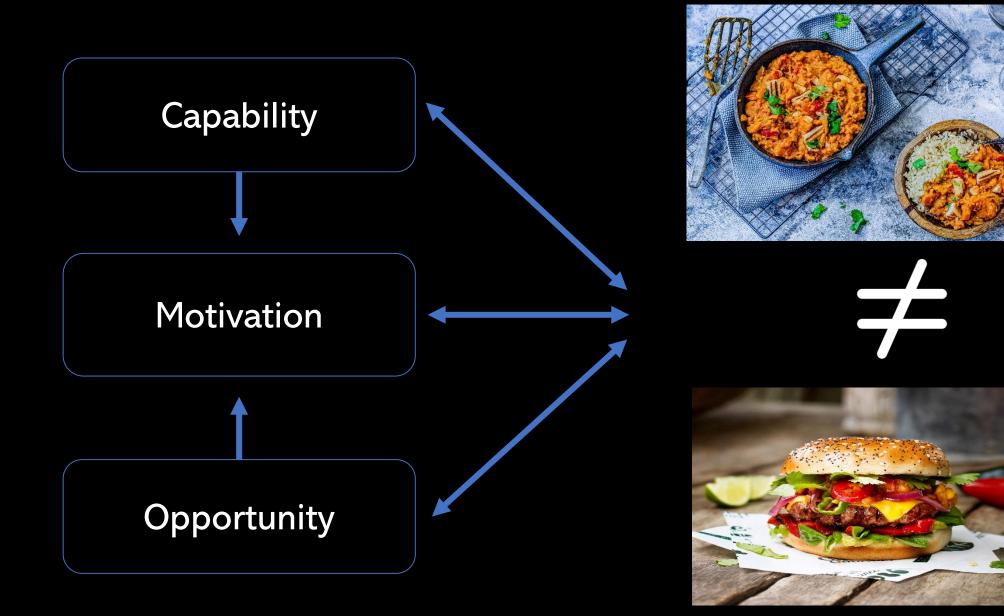


CONDITIONS FOR BEHAVIOUR Michie et al., 2018

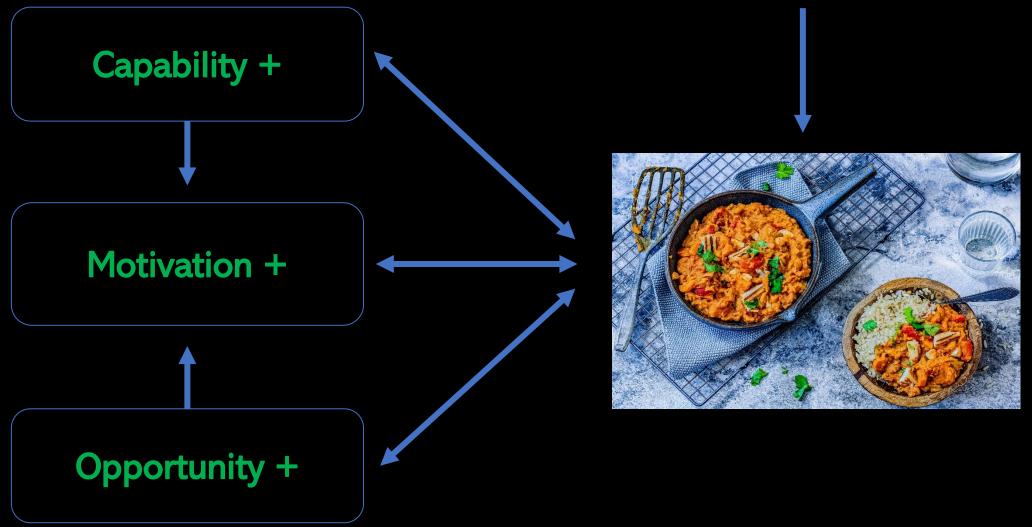




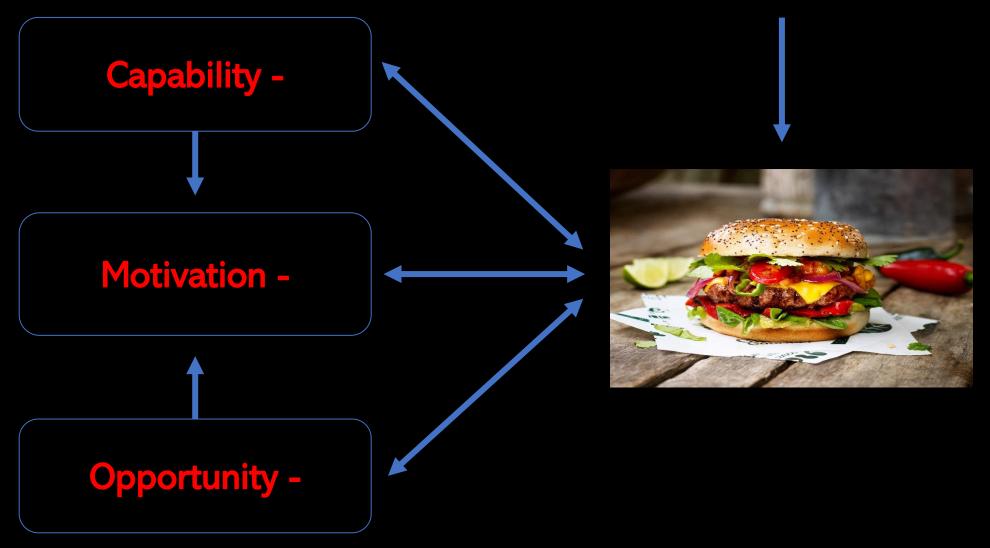




Facilitating new behaviour



Inhibiting existing behaviour

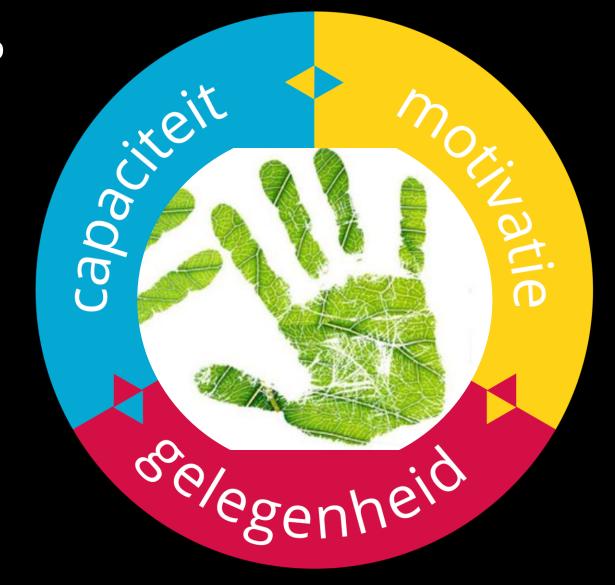


Translate policy into effective measures

Fixers Coaches

Education

Training



Communication

Ambassadors

Social marketing

Grants

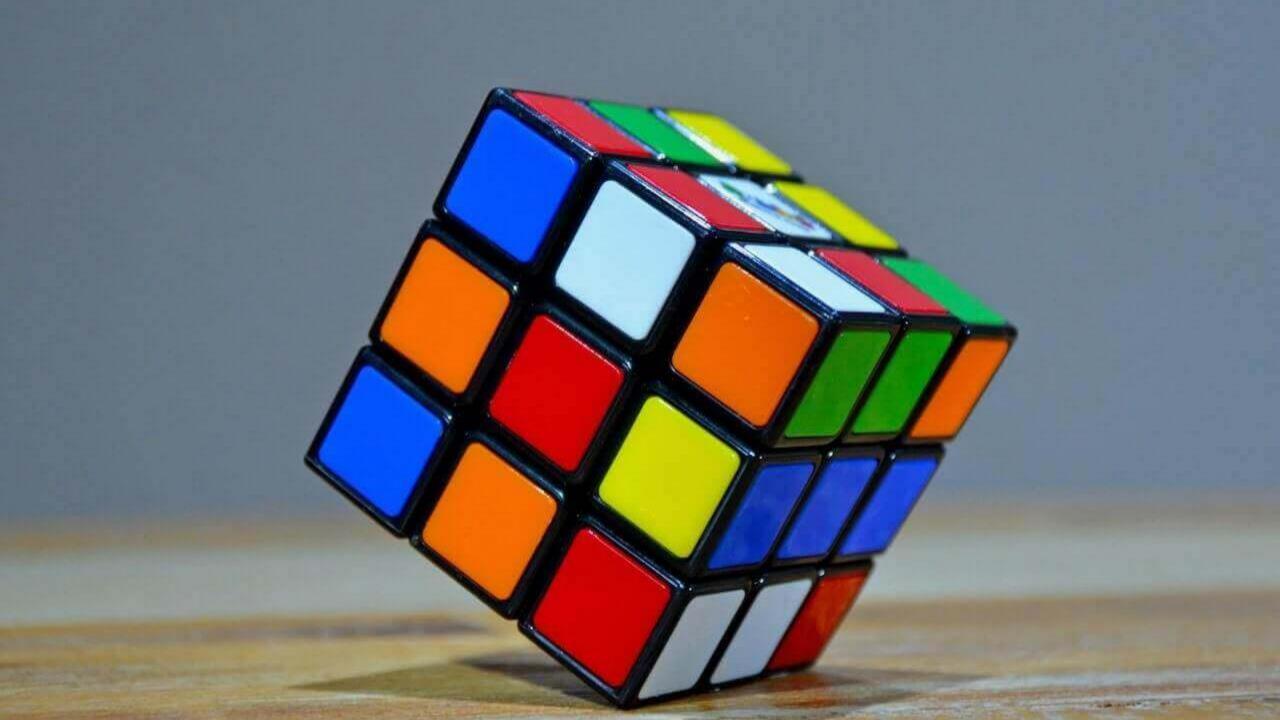
Sanctions

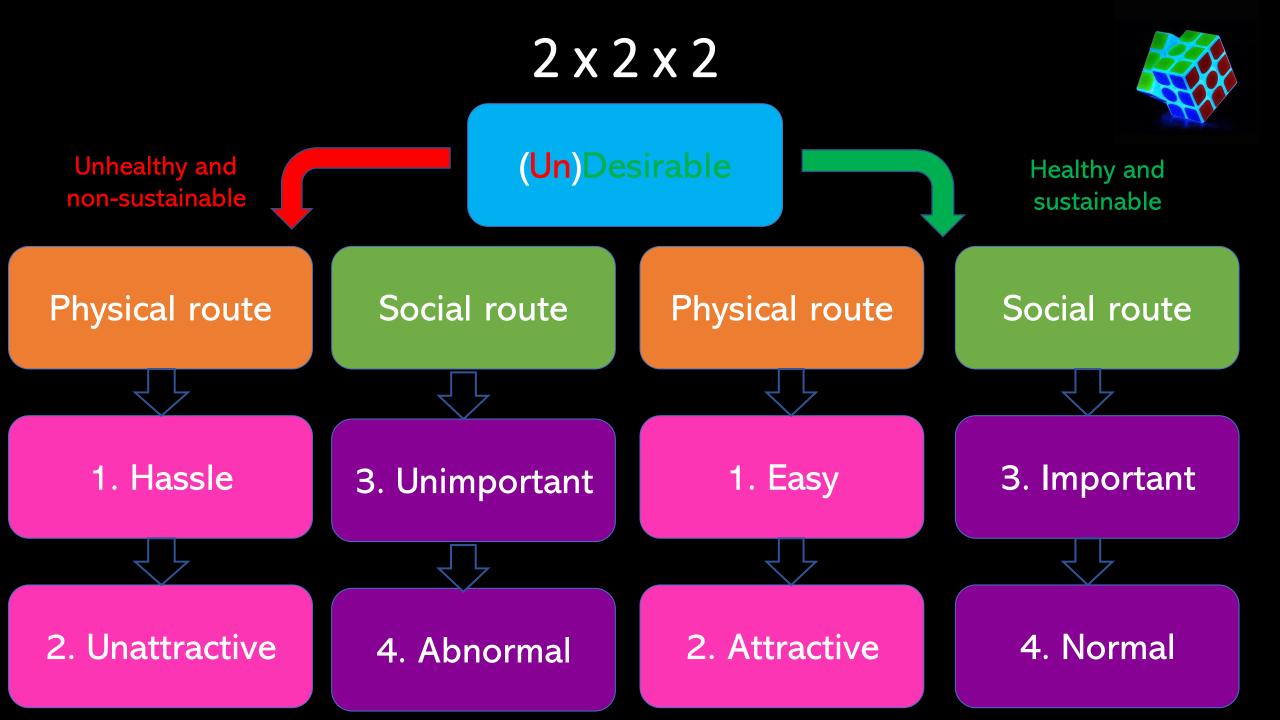
Enforcements

Regulations

Services

Pricing





Out of the Climate Conundrum?



