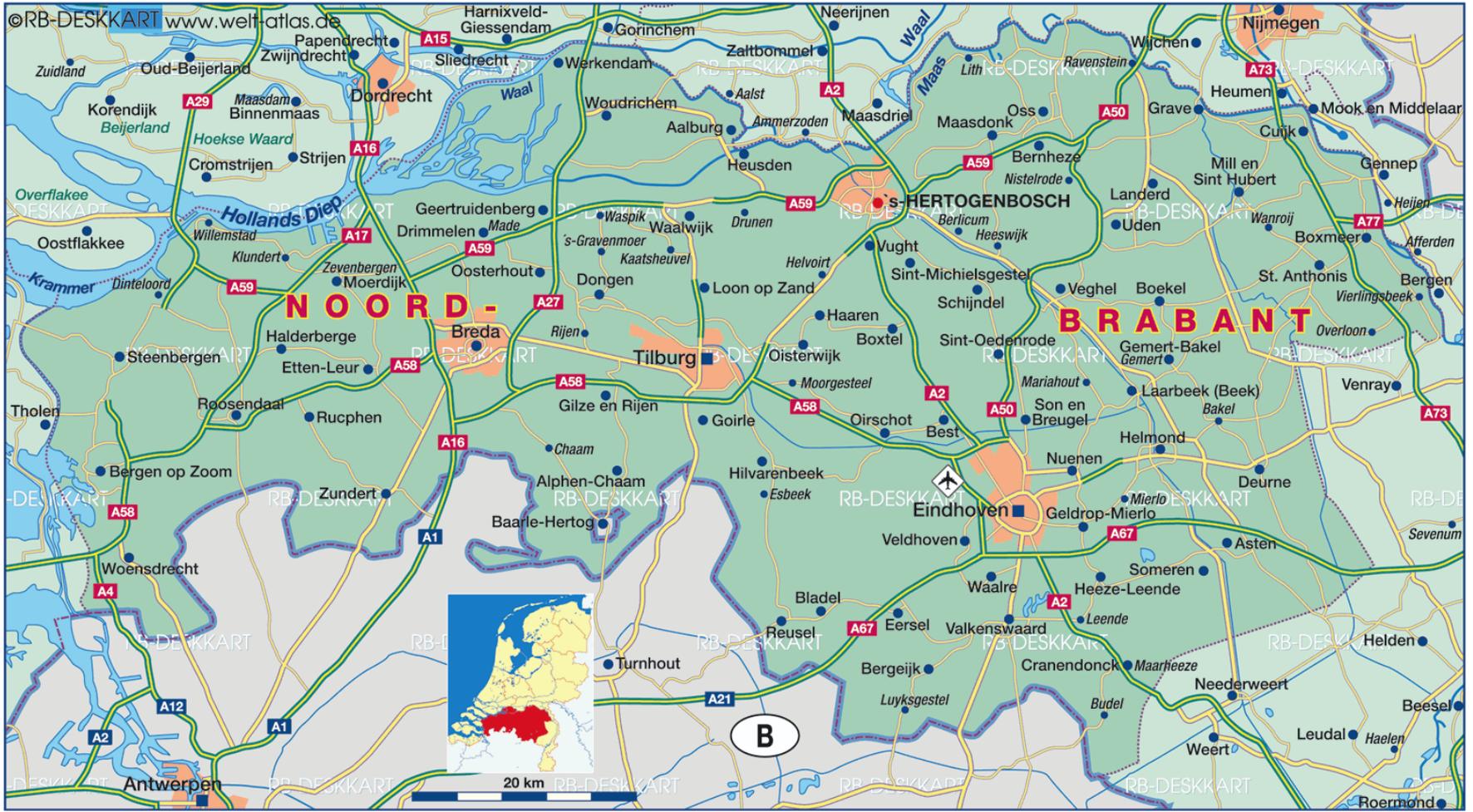




ENCORE, Bilbao, Basque Country
Meeting on Circular Economy 19.09.2017

Eward Heijmans
Province of North Brabant



Why?

Urgency, chances

THE SITUATION

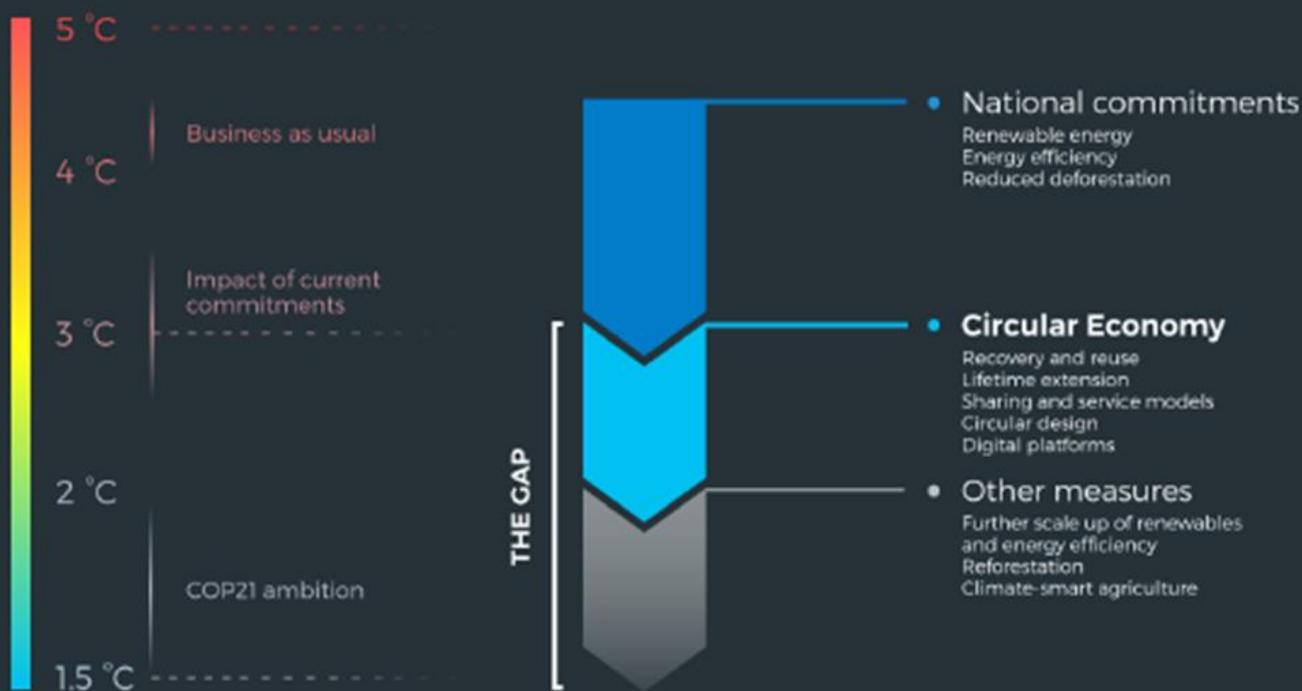
Under a business as usual scenario, the global temperature by 2100 will be more than 4°C above pre-industrial levels

THE END GOAL

To limit temperature rise to 1.5°C, we need to cut greenhouse gas emissions from 65 to 39 billion tonnes CO₂e per annum by 2030

THE SOLUTION

Current national commitments achieve about half of the required emissions cuts. Circular economy may fill about half of the remaining gap



What? Definition and goals

National / regional Government:

Circular economy is an economic system, in which the reuse of products and raw materials is the starting point & in which the goal is the value creation for human beings, nature and economy in every step in the system.

Circular economy is a fact in 2050 / in 2030, the use of raw materials is 50%

Strategic goals:

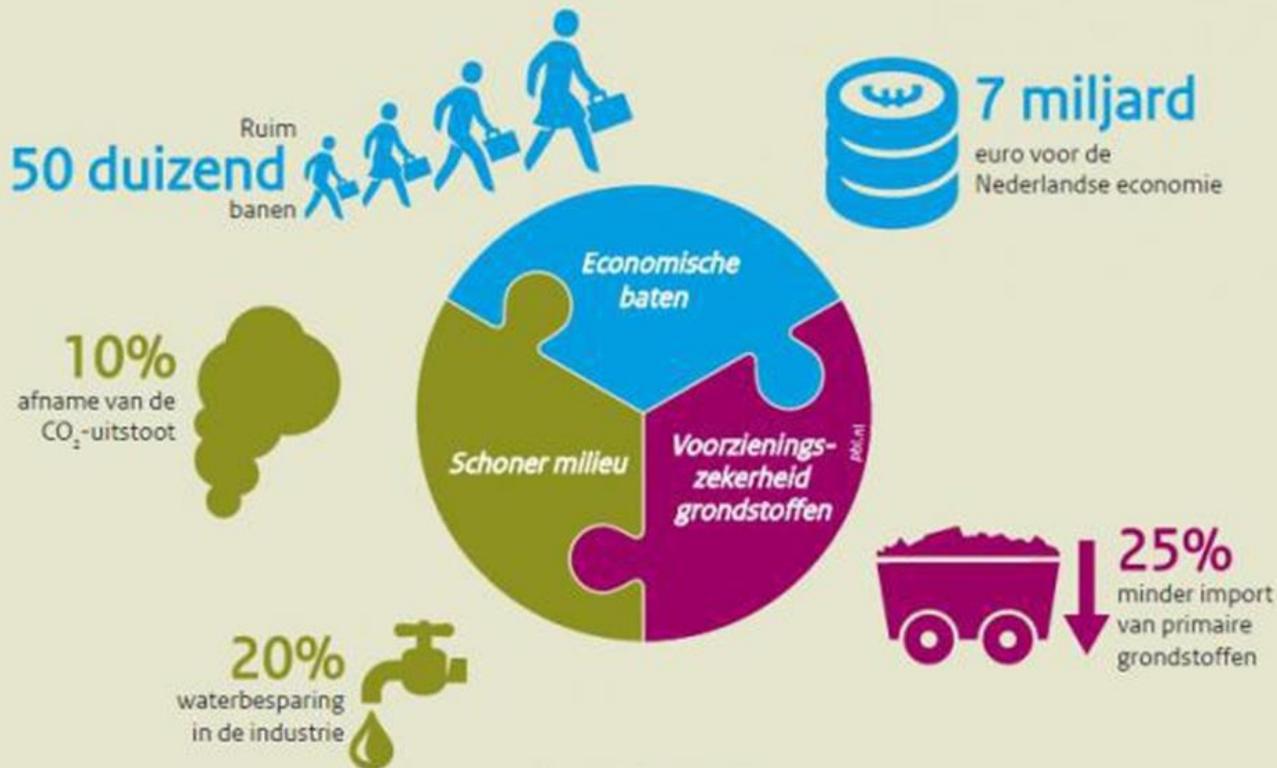
1. In existing chains, raw materials are used at a high value.
2. Substitution of fossile, critical and not-sustainable produced raw materials by sustainable, renewable and common available materials
3. New systems for producing, consuming, and spatial planing, new business models

Priorities:

Biomass and food, Manufacturing, Plastics, Construction and infrastructure, Consumer goods

Potential economic benefits for The Netherlands

Wat kan een circulaire economie Nederland opleveren?



Strong sectors & clusters in North Brabant



Measures are pluriform:

- Legislation
- Market incentives
 - Purchasing
 - Launching customer
- Finance
- Stimulating innovation
- Network
- Scouting for chances in North Brabant:
sectors, materials, ...

Biobased Delta

<http://biobaseddelta.nl/pagina/english>



Top locations within the Biobased Delta



- | | |
|---|--|
| 1. Bioprocess Pilot Facility (BPF)

BIOPROCESS
PILOT FACILITY | 6. Rusthoeve

RUSTHOEVE
AGRI-INDUSTRIËLE
ADRESLOCATIE |
| 2. Plant One

PLANT
ONE | 7. Zeeland Seaports

zeeland
seaports |
| 3. Port of Moerdijk

PORT OF
MOERDIJK | 8. Biopark Terneuzen

BIOPARK
terneuzen |
| 4. Nieuw Prinsenland

business park
nieuw
prinsenland
voor de bio-economie | 8/9. Bio Base Europe

Bio Base Europe
International and National
Bio-based and Synthetic
Biotechnology |
| 5. Green Chemistry Campus

GREEN
CHEMISTRY
CAMPUS | |



www.biobaseddelta.nl

Pilot municipality of Waalre: frequent collection household waste with electric bike



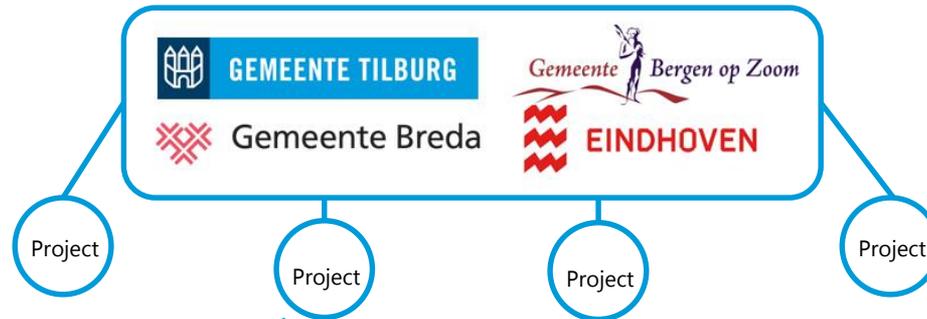
Pilot municipality of Eersel: frequent collection household waste with electric car



Dus dan maak je een praatje
met de mensen, enzovoort.

Jim van Thiel
Afvallinzamelaar

Green deal applying biobased products in public spaces



Ministerie van Economische Zaken



Ministerie van Infrastructuur en Milieu



Green deal applying biobased products in public spaces



GreenTech Park Brabant – valorisation of local biomass

 [Green Tech Park Brabant](#)





COME VISIT US!

GREENTECH PILOT ONE:

Facts:

- ✓ 5000L high tech Digester with no electric rotors!
- ✓ Gasifier for both electric power and gasmix
- ✓ Autonomous Electrical generator powered purely on self-produced biogas
- ✓ Next generation Synthetic Gas meter (digital readouts and endurance testing)
- ✓ Site is fully controlled ONLINE, 24/7 monitoring and control
- ✓ Automated Control Management bij PLC. (programmable Logistic Computer system)

Open for business tests (biological) resources to new technique available in GT pilot 1. Pilot monitors and evaluates the outcome in energy and products.

Training facility for biogas business companies.

Concern for man and his fate must always form the chief interest of all technical endeavors. Never forget this in the midst of your diagrams and equations.
Albert Einstein

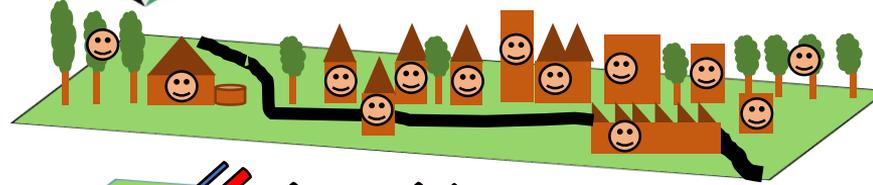




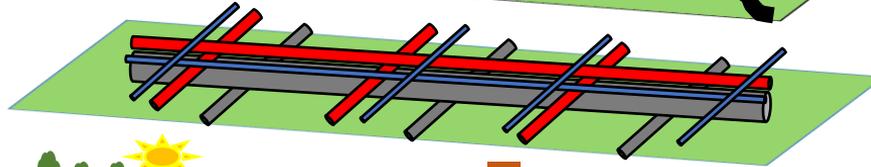
greentech

GET TOGETHER, GET SMARTER, GET GREENER

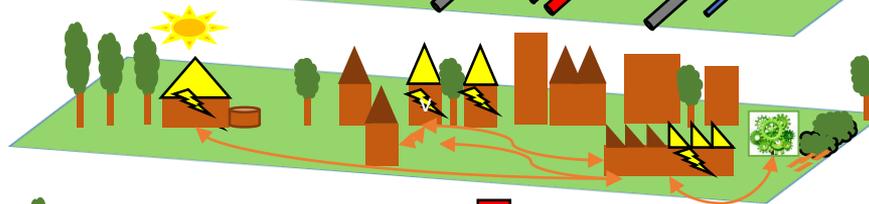
- Under construction: place for pioneers
- Living lab for green technology – local biomass products
- Triple Helix: innovative companies, knowledge institutes, government



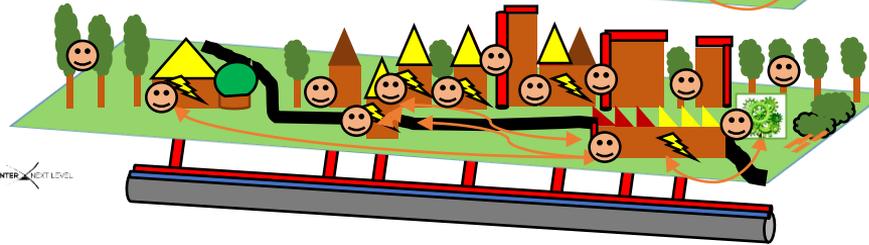
Community



Subterranean
infra



Power exchange
local and local
resource
implementation



Complete
integration

ENTER NEXT LEVEL

Contact:

Provincie Noord-Brabant

ir. G.J.A. (Eward) Heijmans MAB

Alliance Manager Sustainability

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