

Circular Economy in Flanders

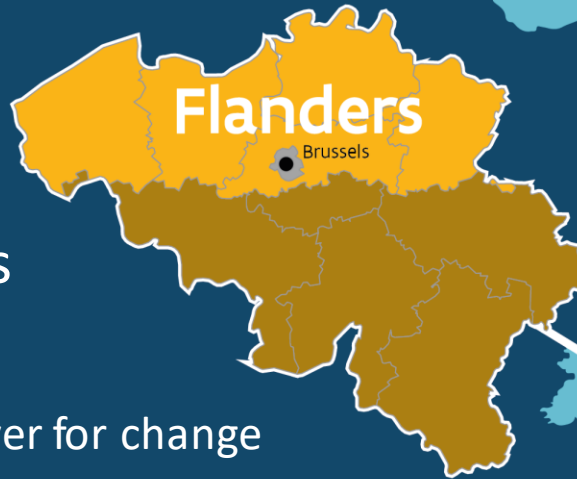
Together towards a
circular economy

25 jaar Buitenlands Beleid
10 december 2018



Flanders

- 6,2 million inhabitants
- Highly urbanized
 - Dense population is driver for change
- Economic strengths
 - Logistics (ports of Antwerp, Ghent, Zeebrugge)
 - Chemical industry and emerging bio-economy
 - Food industry
 - Engineering
 - Health

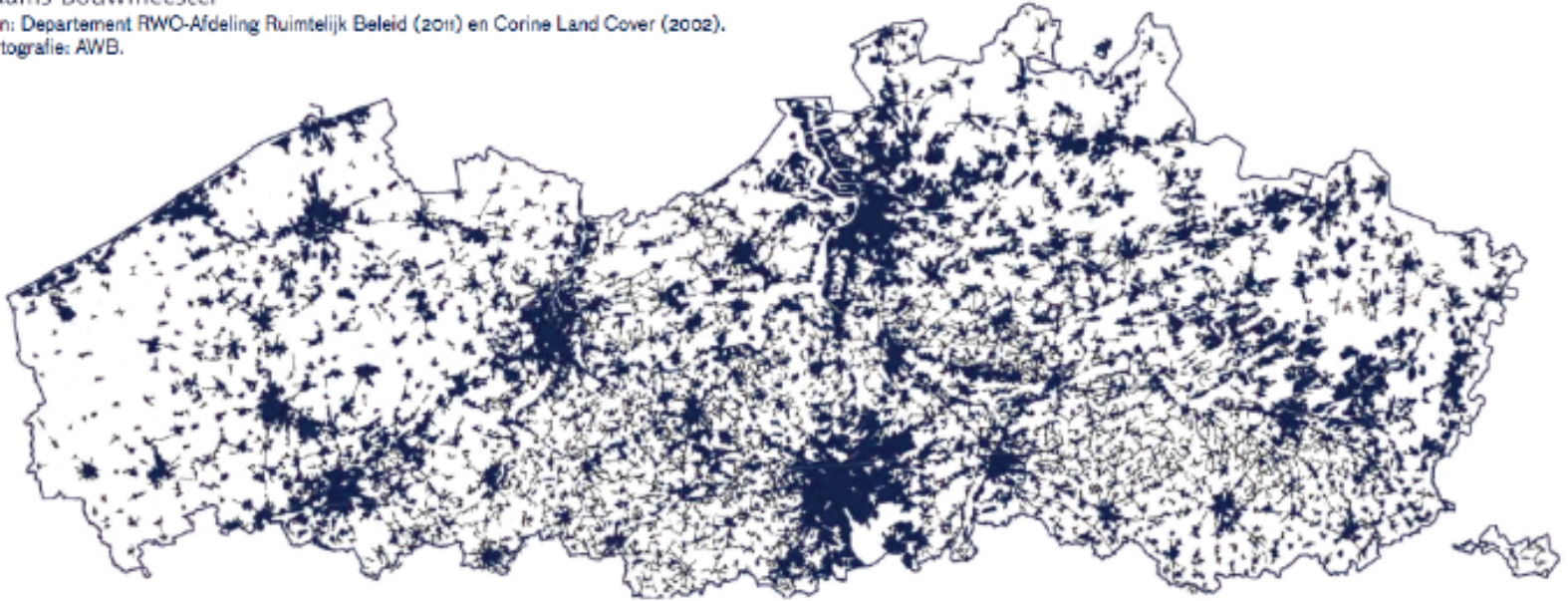


No space to/ for waste

Vlaams Bouwmeester

Bron: Departement RWO-Afdeling Ruimtelijk Beleid (2011) en Corine Land Cover (2002).

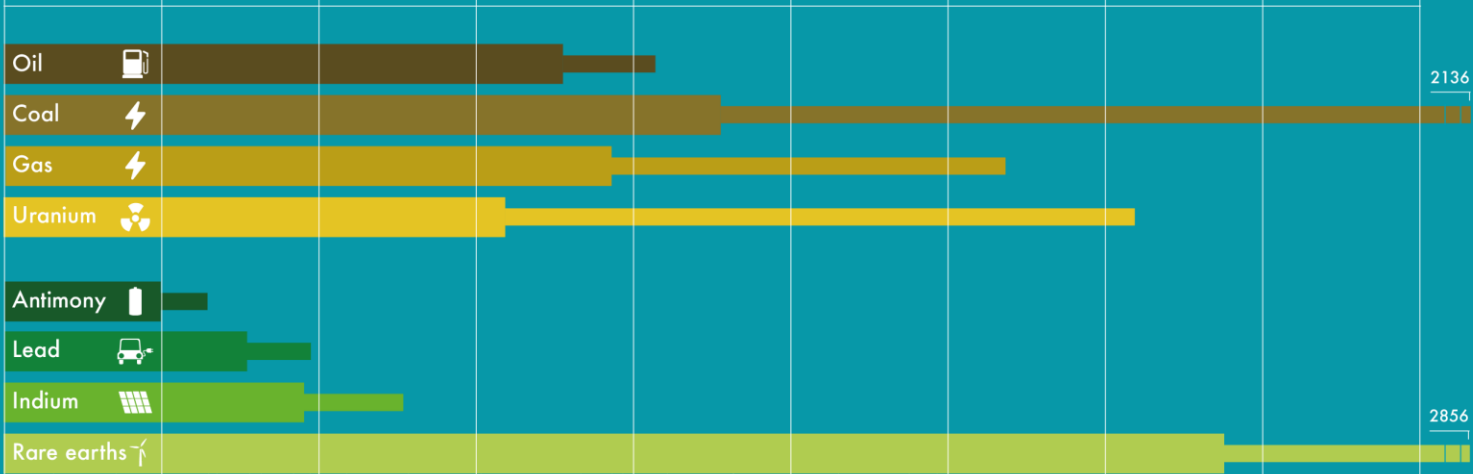
Cartografie: AWB.



Born in 2010: How much is left for me?



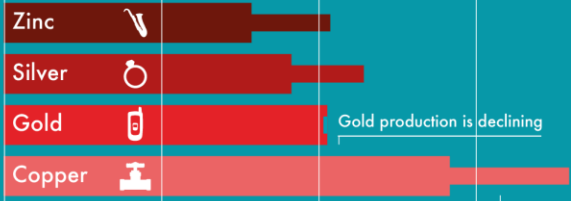
Energy



Metals used in renewable energy solutions

cerium, dysprosium, erbium, europium, gadolinium, holmium, lanthanum, lutetium, neodymium, praseodymium, samarium, I

Other industrial metals



Years remaining if production continues to grow at current rates

Years remaining if production remains static

Where to find the leftovers?



An aerial photograph of an industrial port area, likely a refinery or chemical plant, situated along a large body of water. The facility includes numerous white storage tanks, large industrial buildings, and a complex network of pipes and roads. In the background, there are green fields and a large parking lot filled with vehicles. A large white circular graphic is overlaid on the left side of the image, containing text.

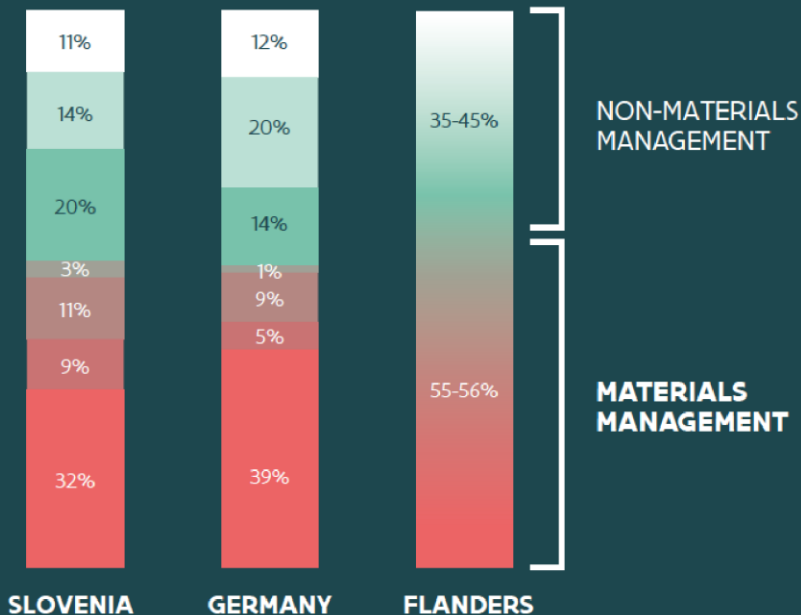
**Material costs
of Flemish SMEs
account for up to**

40%

of total costs

Materials use and greenhouse gas emissions

SHARES OF EMISSIONS PER COUNTRY



NON-MATERIALS MANAGEMENT

- commercial energy use
- residential energy use
- passenger transportation

MATERIALS MANAGEMENT

- disposal of food and waste
- crop and food production and storage
- transportation of goods
- production of goods and fuels

THE SITUATION

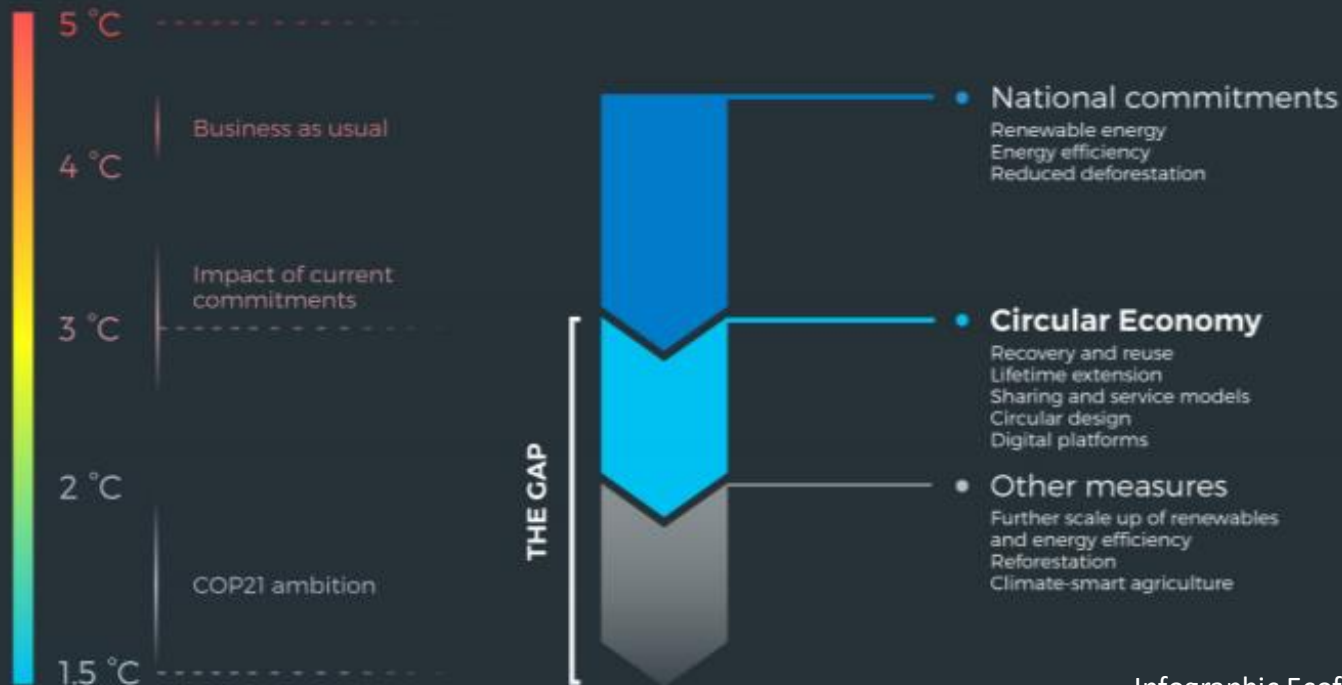
Under a business as usual scenario, the global temperature by 2100 will be more than 4°C above pre-industrial levels

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.



OVAM - Public Waste Agency of Flanders (1981)

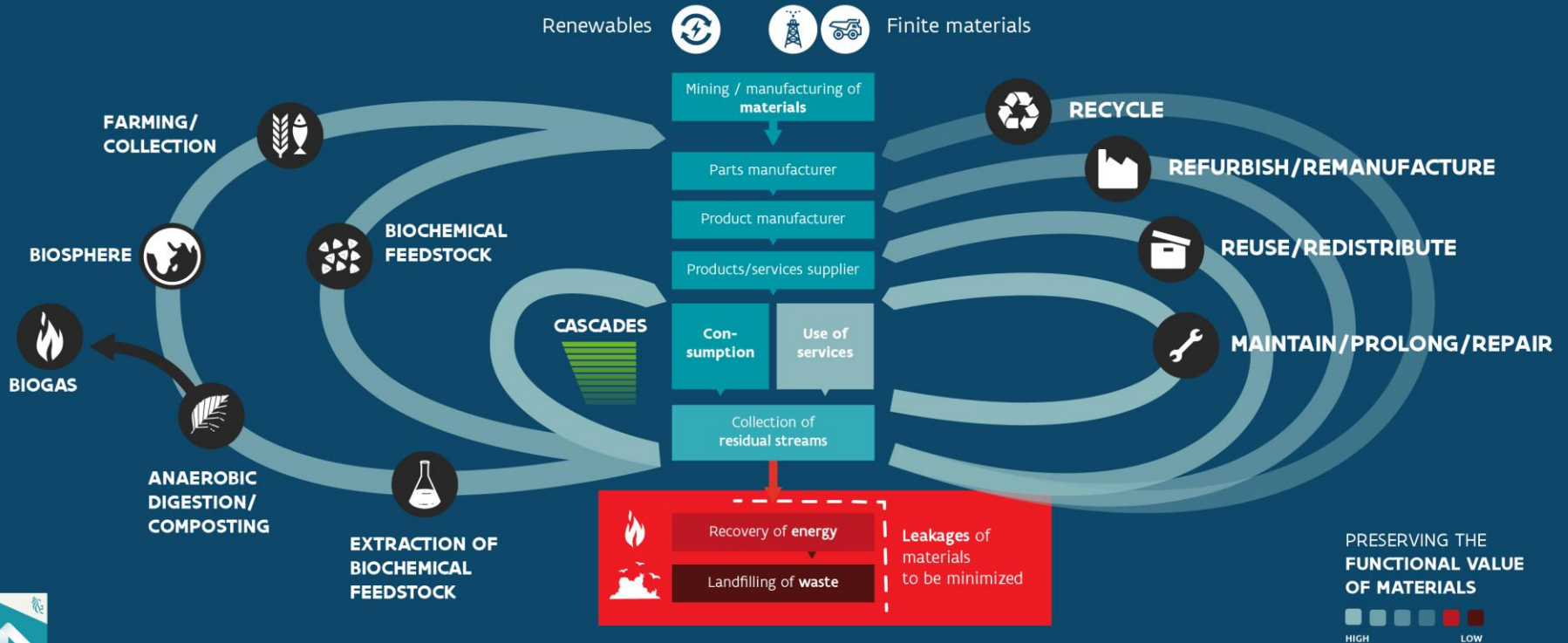


- Establishes policy framework in Flanders for
 - Waste management
 - Materials management
 - Soil sanitation and prevention of soil pollution
 - Execution of soil sanitation

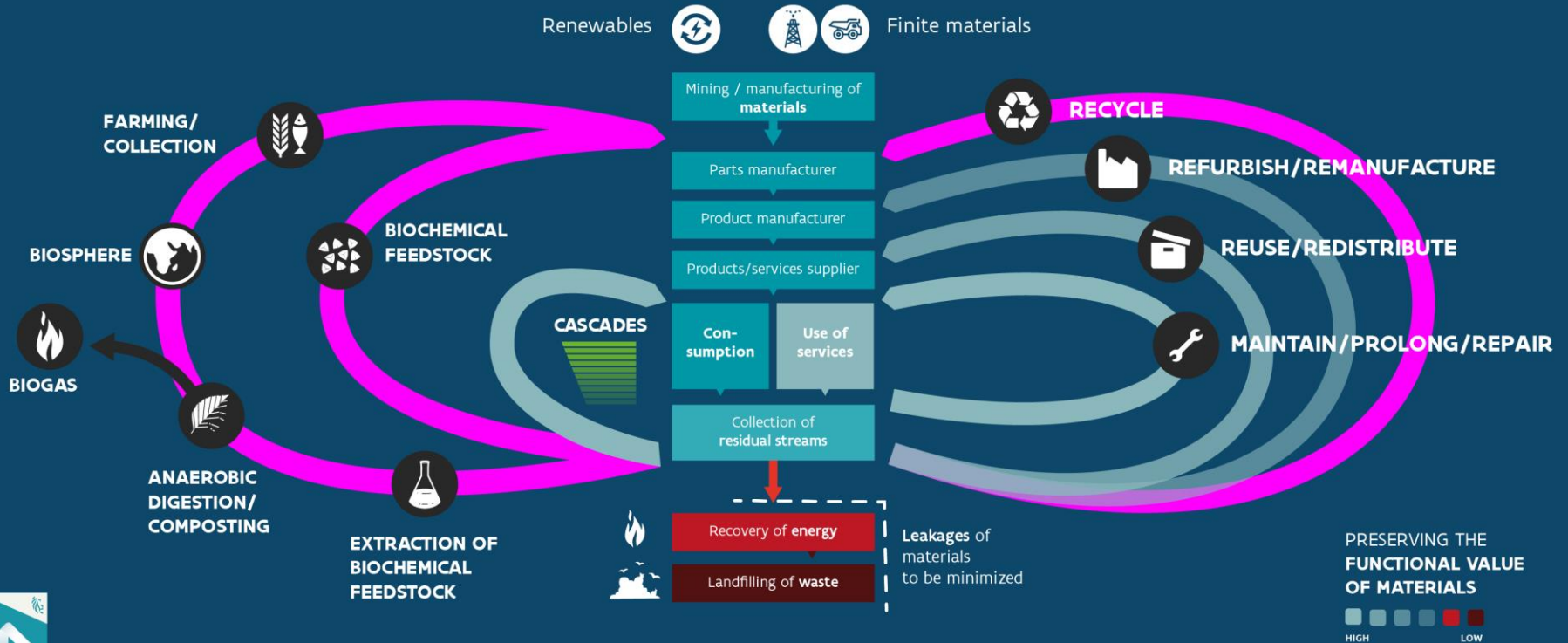
Relation to the federal government

- Consumers, product norms, market regulation: federal competence
 - Management of waste and materials: regional competence
- Coordinates transition to a circular economy

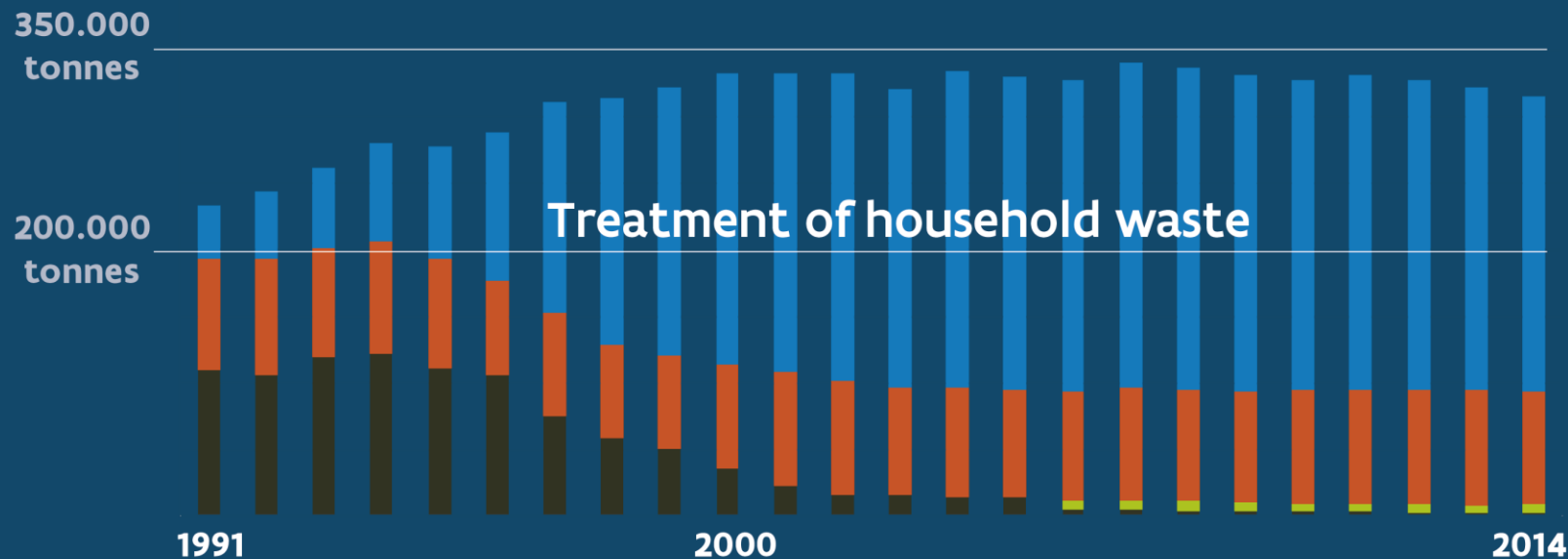
● Early focus: waste management



Advanced policy: recycling economy



Advanced stage of waste management



Sorted for recycling



Incinerated



Mechanical-Biological Treatment



Landfilled

- more than **70 % sorted for recycling**
- near 5 kg/inhabitant **reused**
- **near zero landfilling** of recoverable waste
- residual household waste limited to 145 kg/inhabitant
- stabilisation of waste generated (+/- 500 kg/inhabitant)

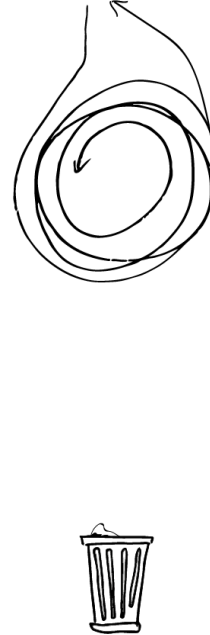
Taking the next step...



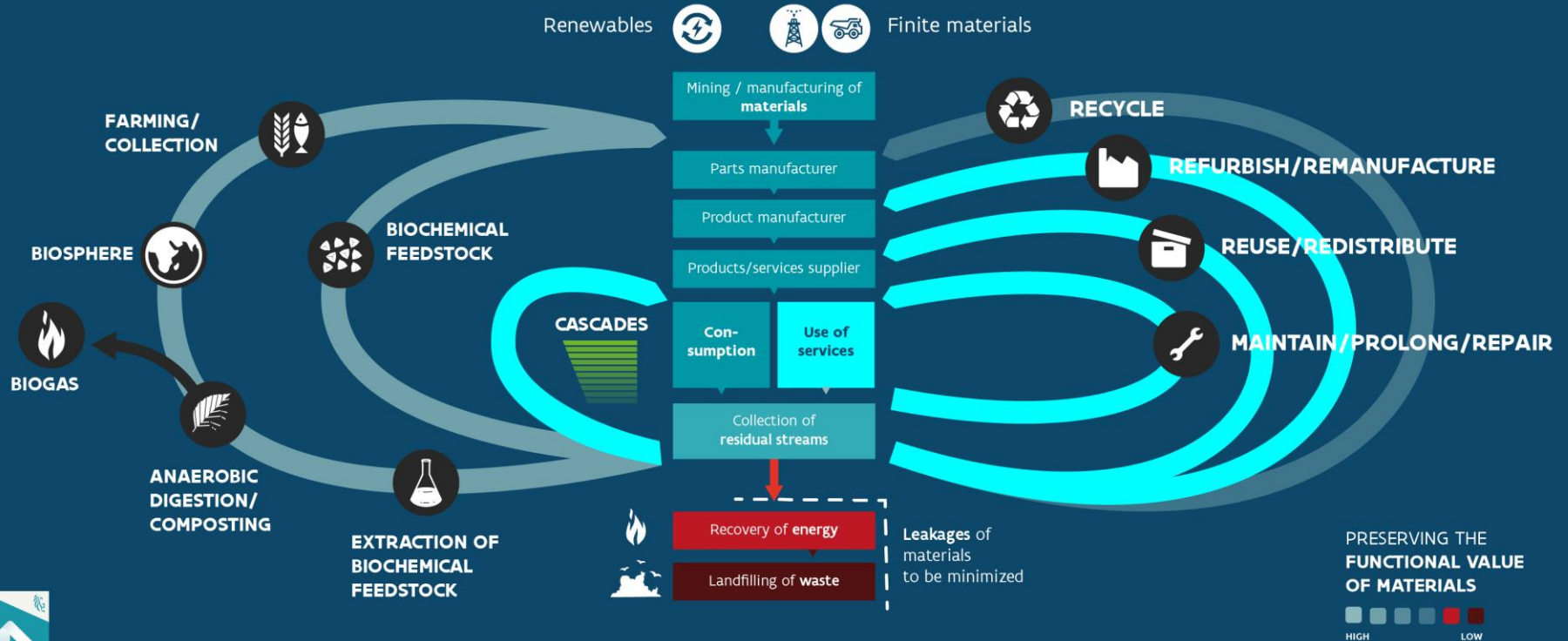
LINEAR ECONOMY

RECYCLING
ECONOMY

CIRCULAR
ECONOMY



● Going further: 'inner circles' of circular economy

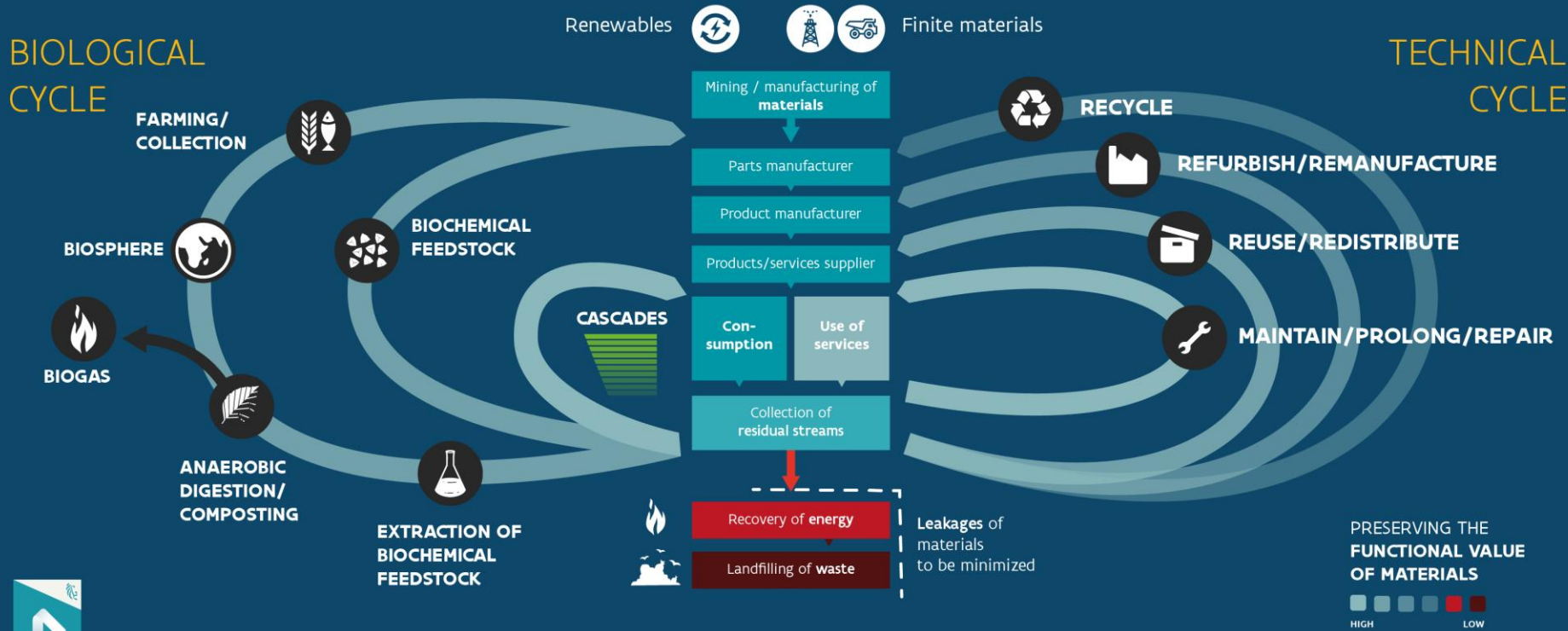


THE CIRCULAR ECONOMY

Renewability and preservation of value

BIOLOGICAL CYCLE

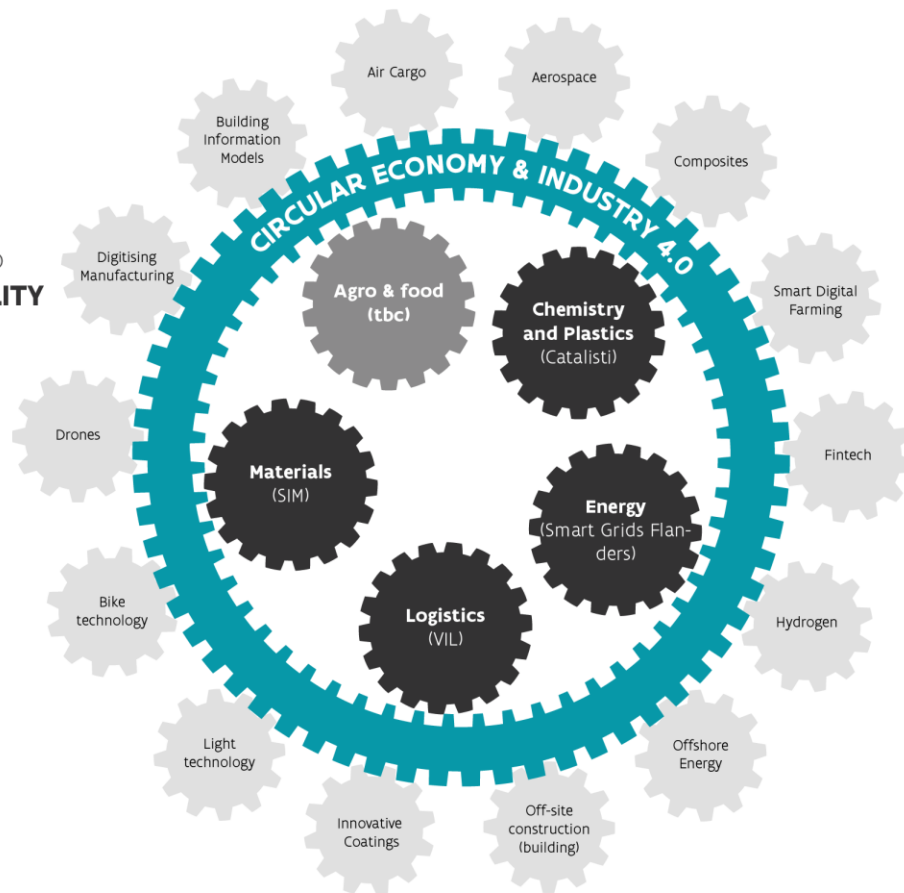
TECHNICAL CYCLE



The Government of Flanders selected **seven transition priorities:**



Flywheel for **innovation policy**







Systemic approach -> Partnership Quintet



Societal Quintet



Circular Flanders

Partnership



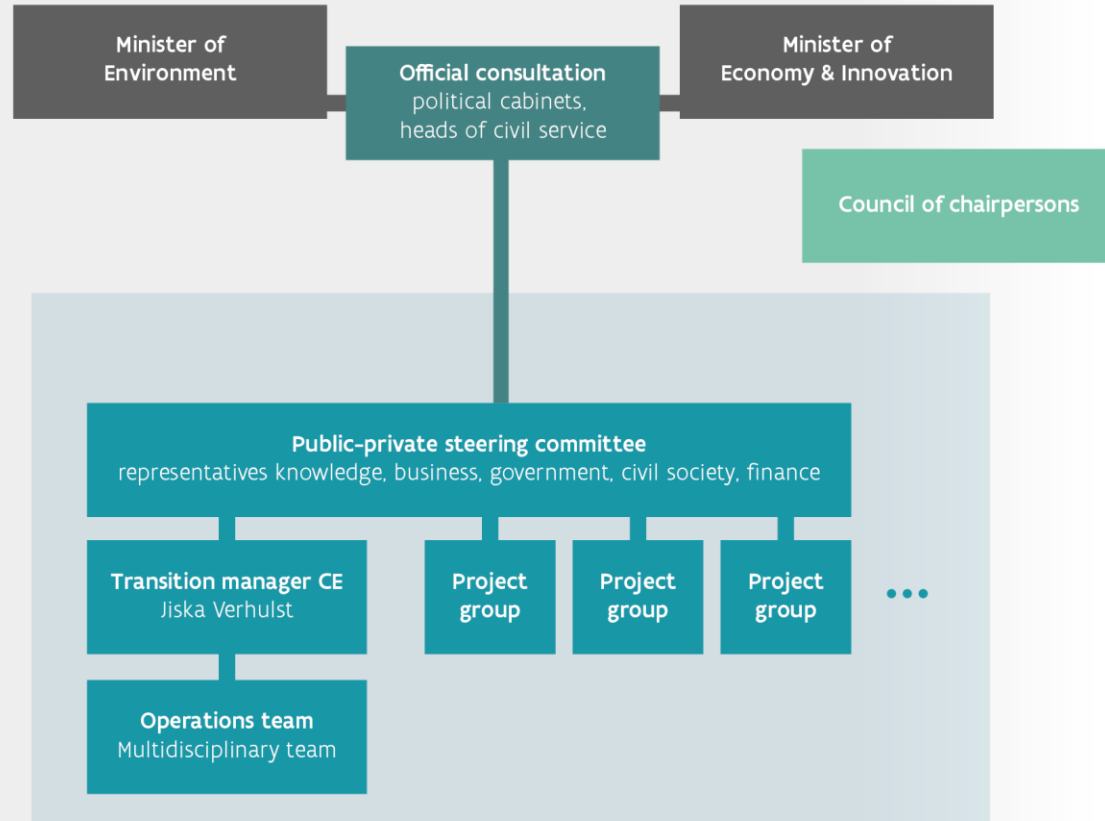
Operations team supports
embedded in OVAM

'Transition space'
project partners or independent

GOVERNANCE



TRANSITION SPACE



...with 6 core activities



01 NETWORK

We connect and cocreate.



04 LAB

We make it happen.



02 KNOWLEDGE

We build and share our knowledge.



05 POLICY

We support.



03 INNOVATION

We enable.



06 EMBEDDING

We make it grow.



**Green Deal
Circular Procurement**

100 buyers
50 facilitators
200 projects



Project calls
145 applications
70 supported

2 ministers pool
11 million euro



200
supporting activities by the operational team



2y: 300 PROJECT PROPOSALS



Againagain!

Speelgoedabonnementen voor kleuters



NNOF

Kantoren als grondstoffendepots



Laser Cladding Venture

Herstellen met 3D printing



Spelotheken

Leen eens speelgoed



Buggybooker

Nie fietsdelen en auto delen, buggy's delen



Deceuninck Cyclefoam ®

PVC-afval wordt geluidwand



Permafungi

Gesterzwammen kweken op kuffelbak



Recup Design

Sociaal-ecologische meubelmakery



Sheltercare

Koester je festivalwiel



Verimpex

Voermateriaal uit vliegtuigbanden



Umicore PMR

E-waste te goud (ward)



TRI-VIZOR

Carpoelen voor cargo



Tournevie

Een Brusselse werkruimtebibliotheek



Tapazz

Samen voor duurzame mobiliteit



Tale Me

Neem een abonnement op kinderkleding



Skilpod

Modular wonen met circulair potentieel



Rotor Deconstruction

Bouwmateriaal redden uit de sloep



ResourceLab

Duurzaam design uit afgedankte materialen



Take Back Chemicals

Chemical leasing - chemicalien als een dienst



SYMBIOSE project

Mechanizing voor industriële reststromen



Swishing

Huishoudelijke kleding



Repair Cafés

Samen leren herstellen



Puur Plezier

Een abonnement op getoeteld speelgoed



Proviron

Algen voor een biobased economy



GREEN DEALS: TOPICS



PROCUREMENT



CONSTRUCTION

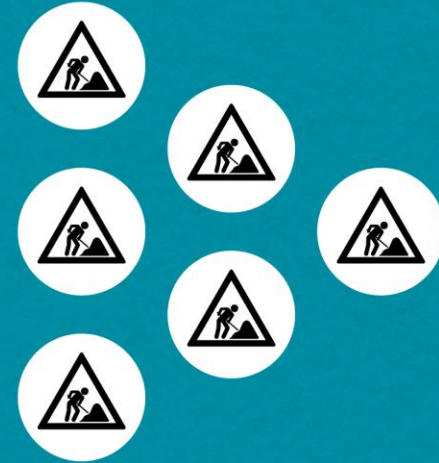


PLASTICS

GREEN DEALS: FUTURE APPROACH



1/ scientific research



2/ on-site experiments



3/ market implications
policy implications

www.ce-centre.be

SUMMA

CIRCULAR ECONOMY POLICY RESEARCH CENTRE

Research and expertise for the circular economy

CE-
centre



- Employment and actor analysis
- Financing and revenue models
- Indicators for circularity
- Measuring the transition
- Short-term assignments
- Modelling systems
- Learning effects
- Market acceptance



YOUNG POTENTIALS-Bootcamp



Thank you!

