



Flanders
State of the Art

Strategy on plastics in Flanders

Waste management plan on plastics

Luk Umans
Engineer – Senior policy advisor

TOGETHER WE
MAKE TOMORROW
MORE BEAUTIFUL

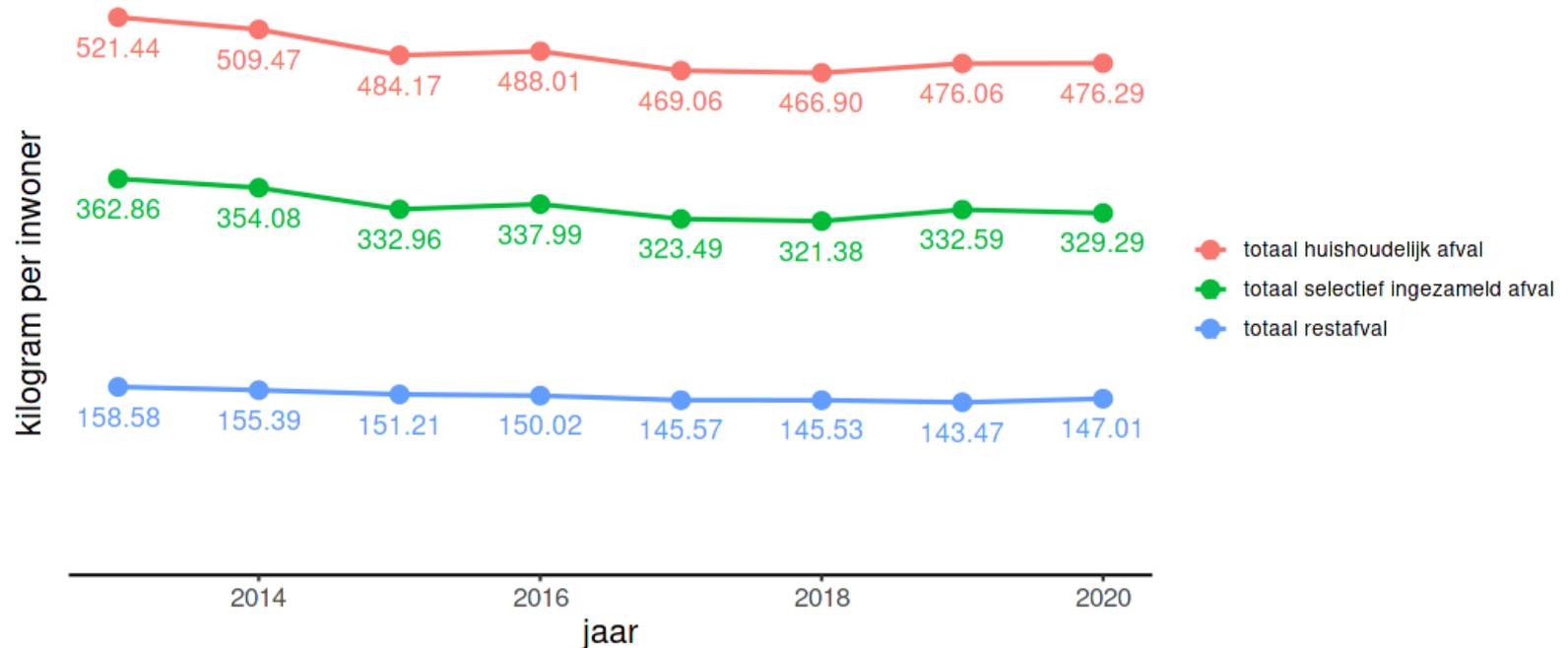
OVAM

Content

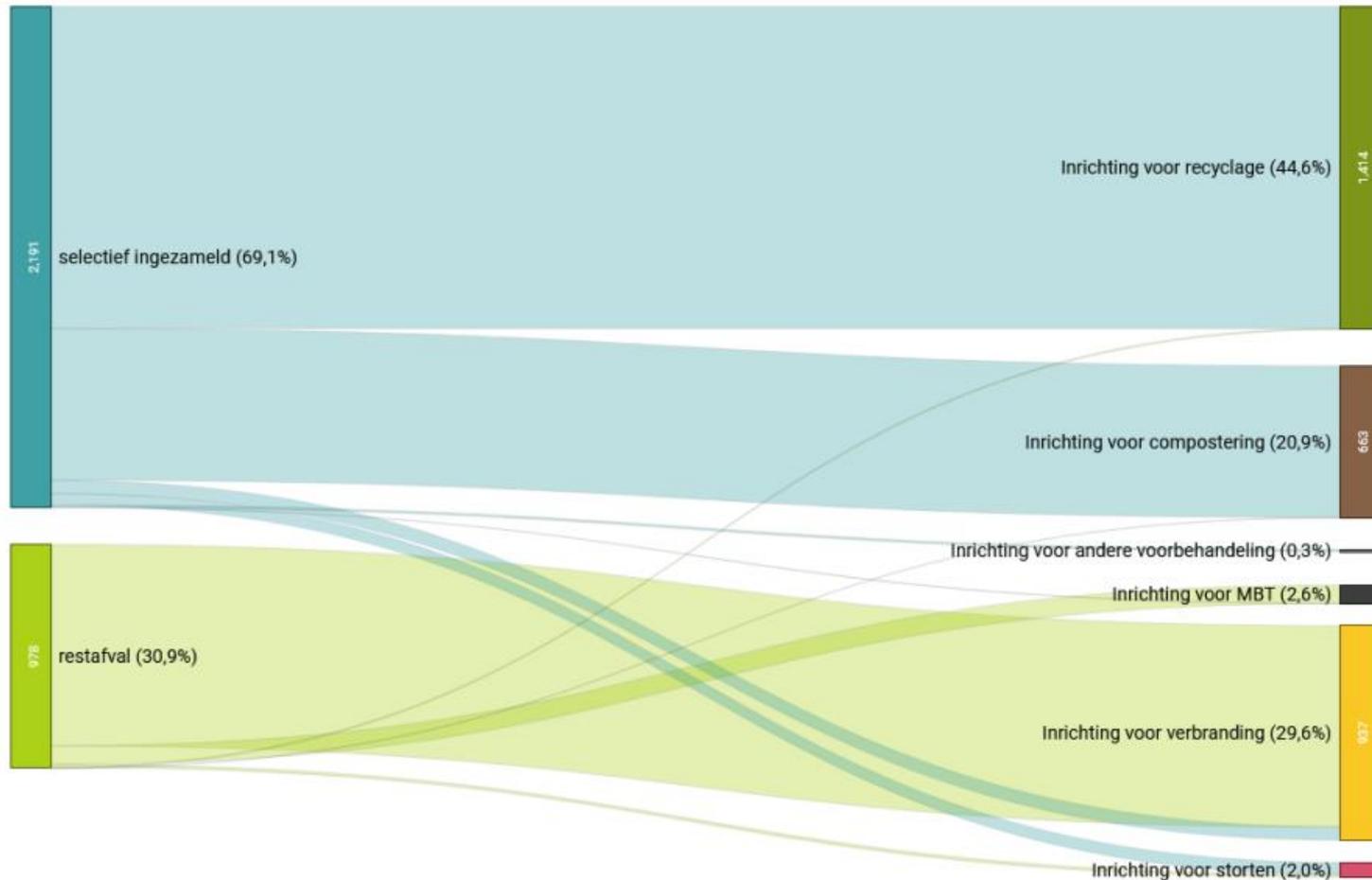
1. Evolution Waste production in Flanders
2. Plastics (trends -> management plan)
3. Management plan (+ LIFE IP CMARLIFE)
4. Working agenda Chemistry/Plastics

1.1 Evolution waste production in Flanders (2020) – Municipal waste

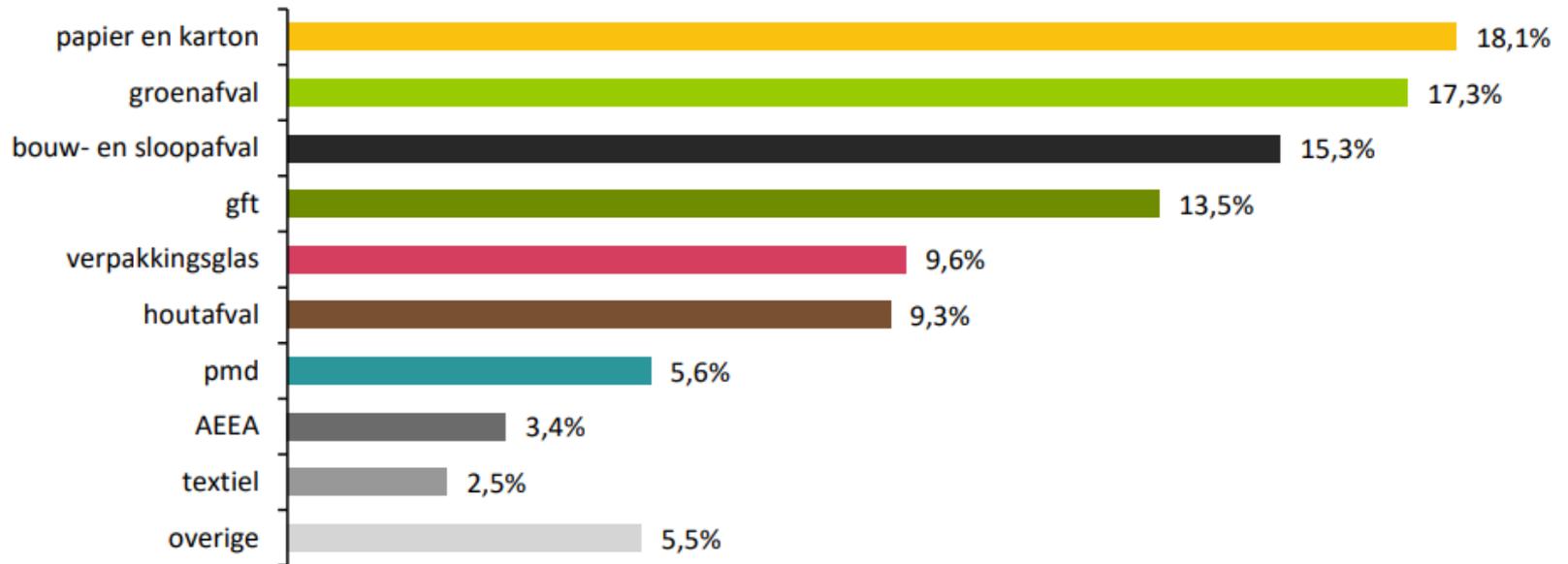
► +/- 3,1 million ton



1.1 Municipal waste – Treatment (2020)



1.1 HW – selective collection of household waste (2020)



Potential on materials

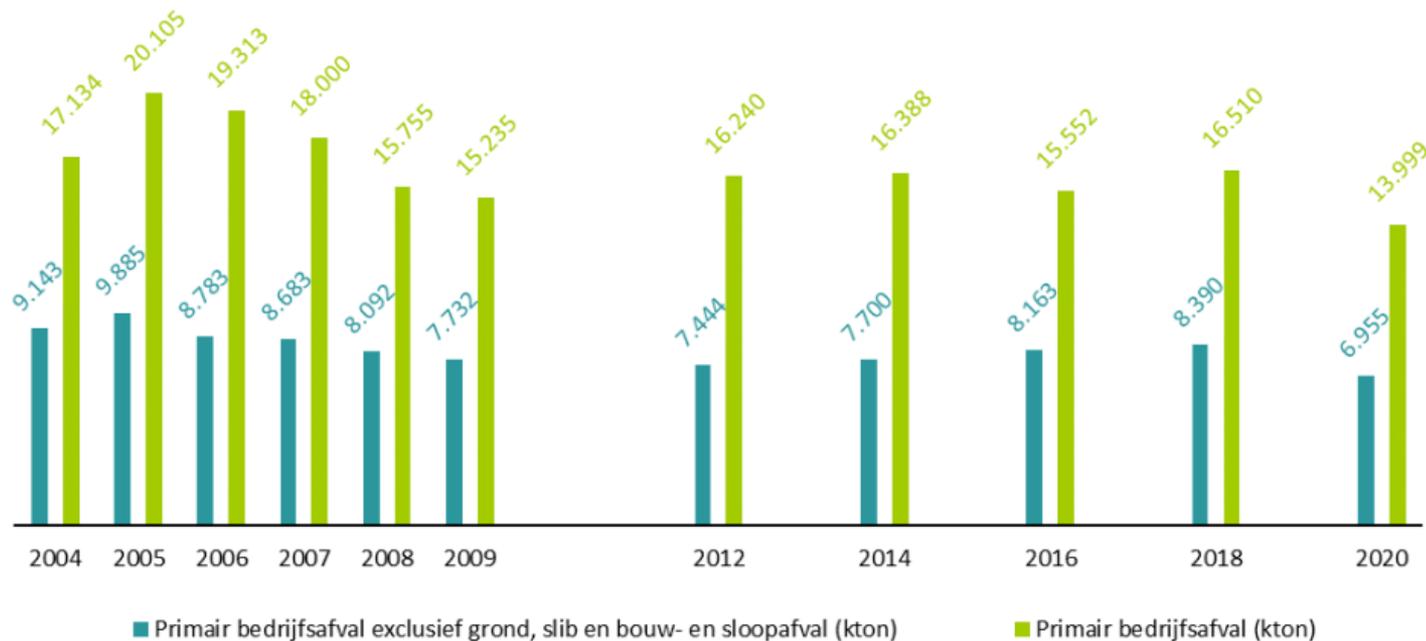
Sorting analysis of household waste (part of mixed municipal waste)



(2019-2021)

1.2 Evolution waste production in Flanders – Industrial waste (2020)

▶ 14 million ton (primary)



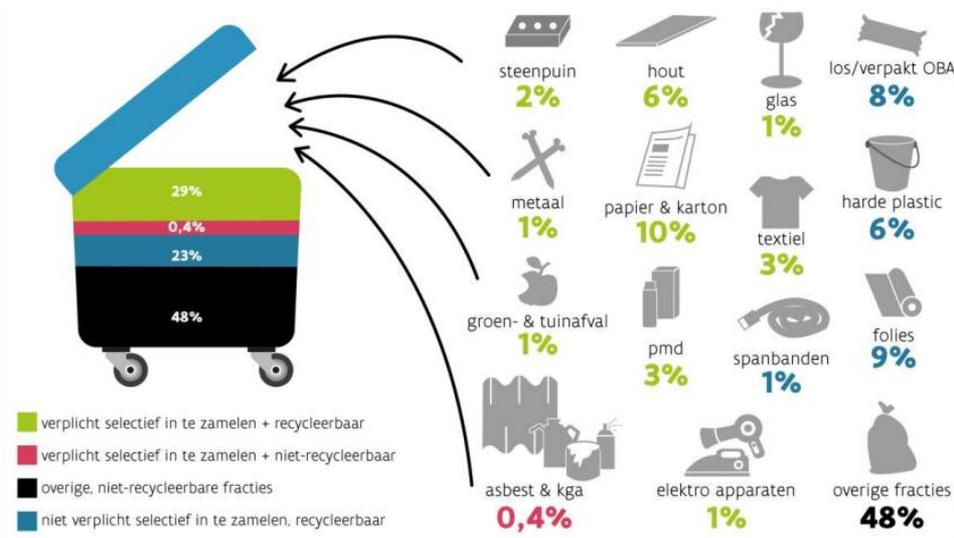
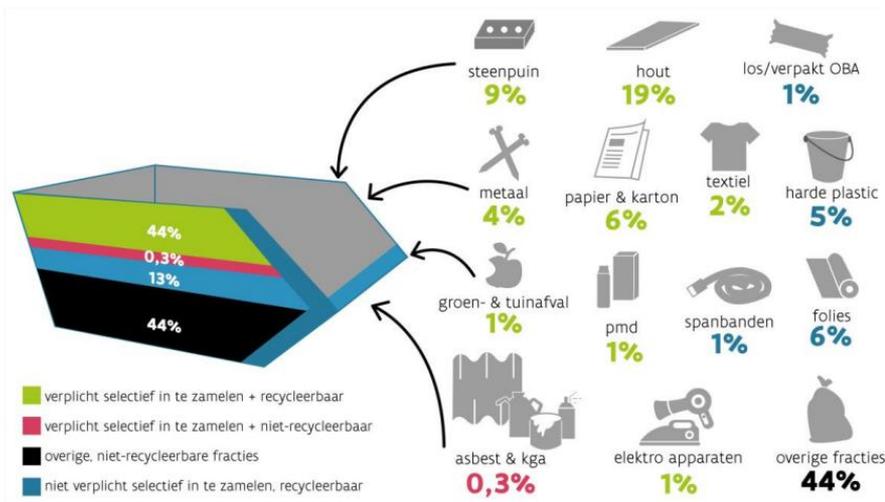
Vlaanderen
is materiaalbewust

EN WE
MORGEN MOOIER

OVAM

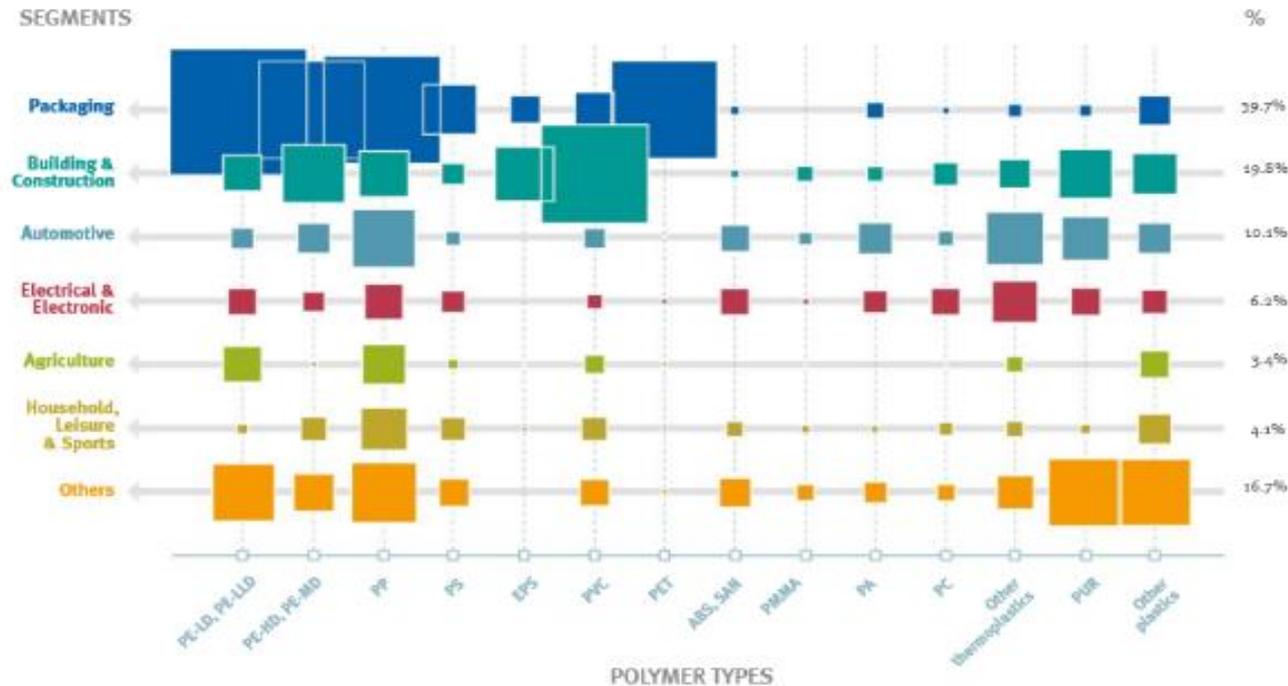
Potential on materials

Sorting analysis of mixed commercial waste (2018)



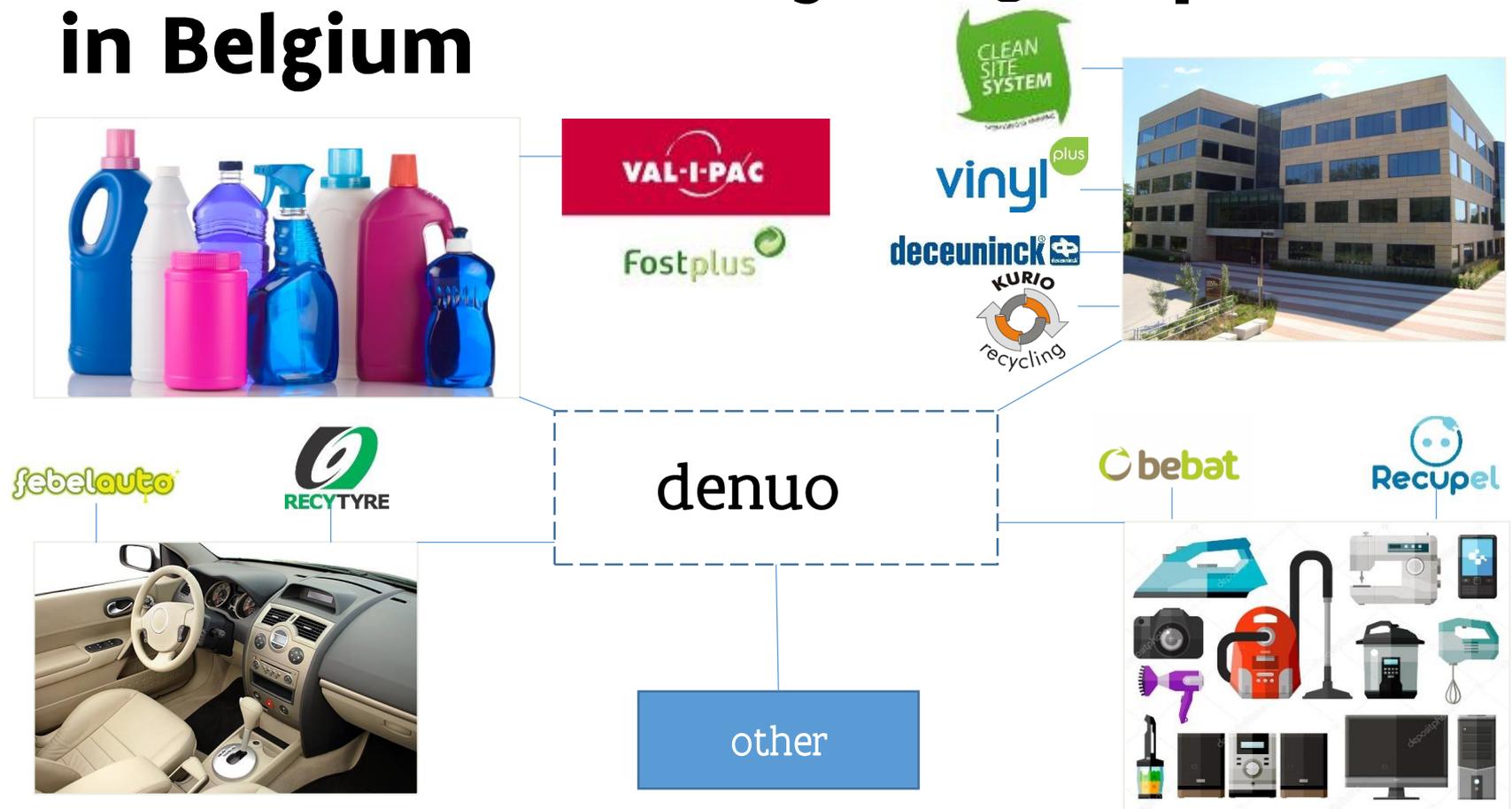
2.1 Plastics : What ?

- ▶ PET, PE, PP, PVC, PS, <-> PCL, PHB, PLA (bio ?) ...
- ▶ Thermoplast <-> Thermoset
- ▶ Monolayer <-> Complex, Composite
- ▶ Plasticizers, color additives, flame retardants
- ▶ Different applications



Figuur 4: Europese vraag naar kunststoffen per polymeertype en per marktsegment in 2017 (EU28+NO/CH). Bron: The Plastics Facts 2018 - PlasticsEurope Market Research Group & Convertio Market and Strategy GmbH

Collection and recycling of plastics in Belgium



Content

1. Evolution Waste production in Flanders
2. Plastics (trends -> management plan)
3. Management plan (+ LIFE IP CMARLIFE)
 - Questions and uncertainties
 - Support CE and material management
 - Protect the environment
4. Working agenda Chemistry/Plastics

Relation with other waste management plans & strategies

- ▶ Uitvoeringsplan huishoudelijk afval en gelijkaardig Bedrijfsafval 2016-2022 (WMP municipal waste)
- ▶ Actieplan duurzaam beheer biomassa(rest)stromen 2015-2020' (AP biomass(waste))
- ▶ Beleidsprogramma Materiaalbewust Bouwen in kringlopen 2014-2020 (PP Building)
- ▶ Integrated Flemish Action Plan for the protection of the Belgian Part of the Northsea (Marine litter)
- ▶ Vlaams verpakkings- en zwerfvuilbeleid 2.0 (Policy on packaging and litter)

3. General approach of the Flemish Management plan on Plastics (2020-2025)

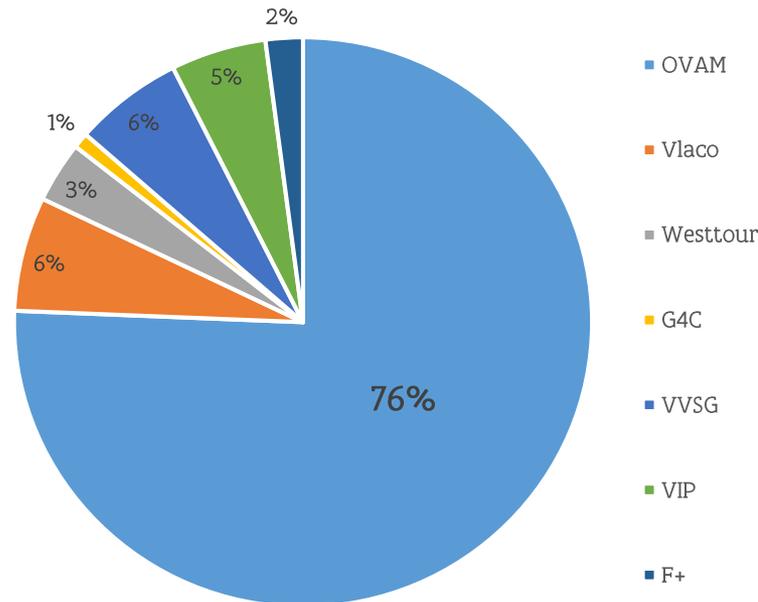
- ▶ I. Less and efficient use of plastics (14)
- ▶ II. Creating a sustainable recycling market for plastics –supply (9)
- ▶ III. Plastic recycle as a fully-fledged raw material – demand (7)
- ▶ IV. Focus on knowledge and data collection (4)
- ▶ V. The exemplary role of governments (2)

Important aspects !

- Waste Treatment Hierarchy
- Ecodesign & prevention (material approach)
- “bio”-plastics

3. LIFE IP C-MARTLIFE

- ▶ **Looptijd: 1 april 2020 – 30 juni 2027**
- ▶ **Totale projectbudget: € 18.040.744**
- ▶ **Subsidiepercentage: 60% (€ 10.824.446)**
- ▶ **Wie? OVAM, VLACO, Westtoer, Denuo, VVSG-Interafval, Valipac en Fost Plus**



3. LIFE IP C-MARTLIFE (Cmartlife commits to closing material loops in order to reduce residual waste with 15% by 2027 and create a litter free environment.)

- ▶ **Acties : 36 “projecten” in 4 clusters**
 - Actions of the Flemish Management Plan Plastics
 - Speed up actions on treatment of waste
 - × Product chains (dipers, textiles,...)
 - × Specific waste streams (biomass, C&D,...)
 - Monitoring en data collection)
Awareness, transfer and replication actions



Cmartlife has received funding from the LIFE Programme of the European Union.

9/12/2022 | 15

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Key Smartlife targets (Cmartlife commits to closing material loops in order to reduce residual waste with 15% by 2027 and create a litter free environment.



- Diminish **household and industrial waste** with an additional 15% by 2027
- Reduce the material footprint of consumption with 20% by 2027, 30% by 2030
- Strong **waste prevention targets** for packaging, food waste and biowaste will be reached by 2025, and specific actions focus on **diapers, litter prevention (mainly plastics) and SUP**
- **Increase recycling rate** with closed loops by 80% for plastics in food packaging, textile, construction (CDW) over the regions, and for marine litter in pilot area
- Realize **litter-free beaches** in all coastal communities by 2027
- Regulation on use of **single use catering material** on events and with governments
- Increasing recycling towards a 65 % recycling of plastics by 2023
- **Circular packaging and distribution:** All packaging reusable, recyclable, compostable or biodegradable by 2025

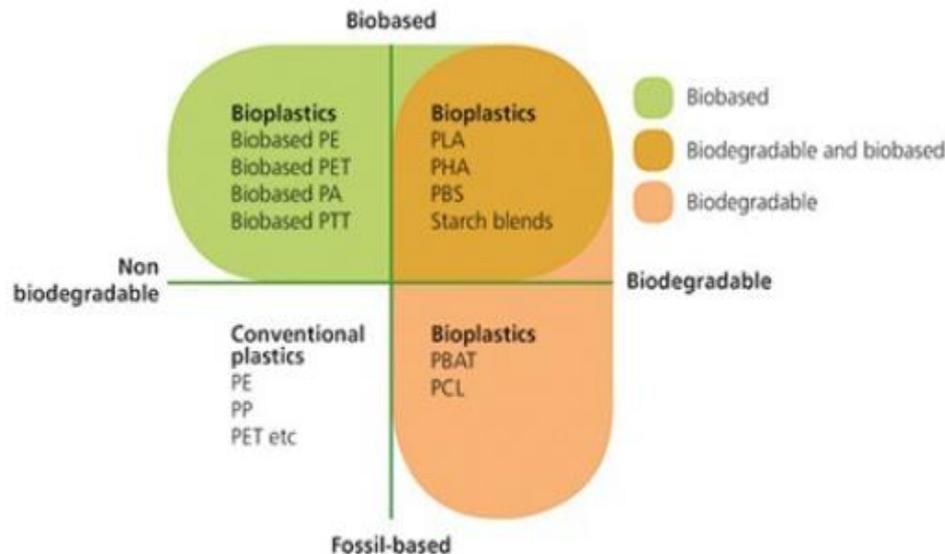


Smartlife has received funding from the LIFE Programme of the European Union.

I. Less and efficient use of plastics:

I.1 Same needs with less plastic : **Ecodesign**

- ▶ 5. Development of circularity indicators
- ▶ 6. New materials in CE : **BIO-PLASTIC**
- ▶ [Communication on biobased, biodegradable and compostable plastics](#)
 - Biobased
 - Biodegradable plastics



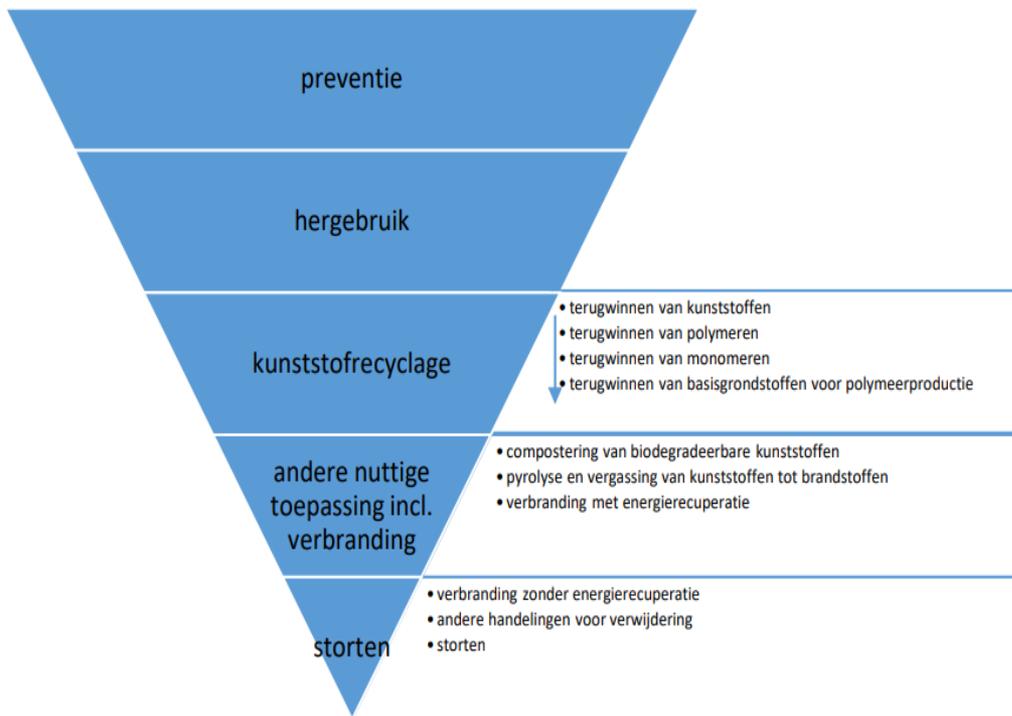
schematische indeling van bioplastics (Bron: European Bioplastics)

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II. Creating a sustainable recycling market for plastics

- ▶ “Closed Loop” vs. “Open Loop”
- ▶ “Mechanical recycling” (plastics) vs. “Chemical recycling” (polymers, monomers, syngas)
- ▶ Gasification, pyrolysis, solvolysis, dissolution,...
- ▶ Environment, energy, climate
- ▶ Quality of the output



II. Creating a sustainable recycling market for plastics

II.2 Discourage landfilling and incineration

II.3 Insight and control on export en treatment

- ▶ 18. Basel convention
- ▶ 19. Transparency in destination of plastic waste (EVOA)

→ Valipac; FostPlus



Nieuws Topics ▾ C



Verbod op export plastic afval uit Europa komt in zicht

Een grote meerderheid in de milieucmissie van het Europees Parlement (ENVI) stemde vandaag in met een verbod op export van Europees plastic afval naar landen buiten de OESO, zoals Maleisië en Indonesië. De export naar OESO-landen als Turkije moet binnen 4 jaar verleden tijd zijn.

II. Creating a sustainable recycling market for plastics

II.4 Innovative sorting and recycling techniques

- ▶ **Large potential in approval of recycling techniques**
EU : 2030= 4 x “2015”capacity
- ▶ **Mechanical recycling :**
 - XRD, NIR, Laser, flotation,...
 - Complexity of plastics: composite materials, multilayers, glue, additives, size,...
 - Ecological and economical win-win situation for recycling for “clean” plastics
- ▶ **Chemical recycling :**
 - Chemical depolymerisation by gasification, pyrolysis, solvolysis,...
 - New products <> alternative fuel
- ▶ **20. Budget for innovative sorting and recycling capacity (VMH)**
- ▶ **21. packaging sector :**
 - 2023 : 100 % of packaging will be recycled in EU

III. Plastic recyclate as a fully-fledged raw material :

III.1 Stimulate demand for recyclates

- ▶ 22. Identify barriers in current product standards and quality standards (case building materials)
- ▶ 23. Prohibition of the use of waste bags without plastic recyclate (obliged recycled content)
- ▶ 24. FostPlus and Valipac stimulate sale of recyclates
- ▶ 25. Cooperation with chemical and plastic processing industry

→ Link with the working agenda chemistry/plastics of Vlaanderen circulair

III. Plastic recyclate as a fully-fledged raw material

III.3 Interface between substances, products and waste legislation

- ▶ Correct properties for high value applications (technical)
- ▶ No risks for human and environment
- ▶ Problems (traceability)
 - No information about the presence of substances of concern
 - Substances which are no longer allowed
 - No **harmonized End of Waste phase**
 - Hazardous or not ?
- ▶ 27. Elimination of ambiguities and obstacles **in REACH, EoW and product legislation** (WEEE, automotive and building sector).

4. Werkagenda's (circular flanders)

OVERHEID

Mark Andries
VLAIO
Administrateur-generaal

Peter Cabus
Departement Omgeving
Secretaris-generaal

Henny De Baets
OVAM
Administrateur-generaal

Patricia De Clercq
Departement Landbouw
en Visserij
Secretaris-generaal

Bernard De Potter
Vlaamse MilieuMaatschappij
Administrateur-generaal

Johan Hanssens
Departement EWI
Secretaris-generaal

Raf Suys
Kabinet Crevits
Kabinetschef

Bob Van den Broeck
Kabinet Demir
Kabinetschef

INDUSTRIE & ONDERNEMERS

Filip De Jaeger
Fedustria
Adjunct-directeur-generaal

Paul Demyttenaere
REO Veiling
Algemeen directeur

Marc Dillen
Vlaamse Confederatie Bouw
Directeur-generaal

Nadia Lapage
Fevia
Secretary General
Vlaams Werkgeversplatform

Stany Vaes
Denuo
Algemeen directeur

Patrick Van Den Bossche
Agoria
Director

Saskia Walraedt
essenscia PolyMatters
Directeur

LOKAAL & MIDDENVELD

Christof Delatter
VVSG
waarnemend directeur Omgeving

Danny Jacobs
Bond Beter Leefmilieu
CEO

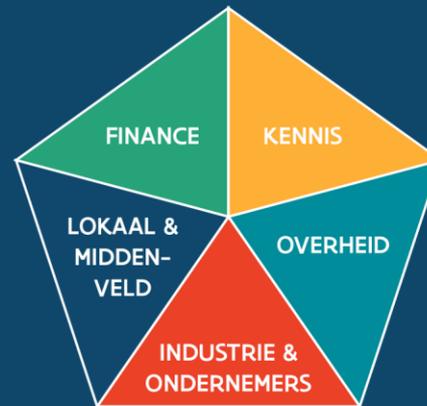
KENNIS

Dirk Fransaer
VITO
Managing Director

Karel Van Acker
KULeuven / Steunpunt CE
Professor / Coördinator

FINANCE

Anne-Mie Ooghe
Febelfin / BLV
Directeur Corporate Banking en
Secretaris-Generaal BLV



Paul De Bruycker
Voorzitter Vlaanderen Circulair

Brigitte Mouligneau
Vlaanderen Circulair
transitiemanager

Minister van Economie,
Innovatie, Werk,
Sociale Economie en
Landbouw

Minister van Omgeving
en Energie

6 WERKAGENDA'S

7 HEFBOMEN

- Beleidsinstrumenten
- Circulair aankopen
- Communicatie
- Financiering
- Innoveren & ondernemen
- Jobs & vaardigheden
- Onderzoek



Maatschappelijke vijfhoek:
overheid
ondernemers
non-profit
kennis
finance

TM = transitie manager
VZ = voorzitter

INHOUDELIJK

Januari 2021: start van de opmaak van de inhoudelijke werkagenda per thema
Eerste helft 2021: inhoudelijke afstemming van en beslissing over de werkagenda's

6 werkagenda's

Publiek-private partnerschappen met eigen dynamiek, doelen, trekkers en acties



circulair bouwen



chemie en kunsstoffen



water-kringlopen



bio-economie



voedselketen



maakindustrie

Roadmap Circulaire Economie

7 hefboomen

Versnellers om drempels te overwinnen en goede praktijken ingang te doen vinden

Beleidsinstrumenten

Lokaal beleid
Vlaams Beleid
Intra-Belgisch Platform
Europese agenda

Circulair aankopen

ProCirc
Voorbeeldrol overheid
Innovatieve overheidsopdrachten

Communicatie

Sensibilisering, co-creatie
Kennisdeling & best practices
Monitoring, rapportering

Onderzoek

Strategische onderzoeksagenda's
Monitor CE
Steunpunt CE-Center

Innoveren & ondernemen

VLAIO-steun & diensten
VC Partnerschap en begeleiding
Experimenten, projecten

Financiering

Stimulerings- en investeringsbeleid
Vlaams fonds CE?
rol PMV?

Jobs & vaardigheden

Onderwijs
Starters en bedrijven
Werkgelegenheid/ sociale economie

Welke werkpaden?

- Werkpad 1: **Naar meer recyclage** (meer inzamel-, sorteer- en recyclagefaciliteiten in Vlaanderen)
- Werkpad 2A: Naar meer **alternatieve grondstoffen** (meer biobased, meer CO2 als feedstock)
- Werkpad 2B: Naar meer inzet van **recyclaten** in het maken van voorwerpen
- Werkpad 3: Naar meer circulair materialengebruik via alternatieve businessmodellen
- Werkpad 4: Naar meer aandacht voor ecodesign
- Werkpad 5: Naar meer industriële symbiose
- Werkpad 6: Naar meer en betere **beleidsmatige ondersteuning** om de transitie naar een circulaire economie te versnellen

Questions



Flanders
State of the Art

**Government of Flanders
Public Waste Agency
of Flanders
Stationsstraat 110
2800 Mechelen, Belgium
T: 015 284 284
F: 015 203 275
www.ovam.be
info@ovam.be**



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