

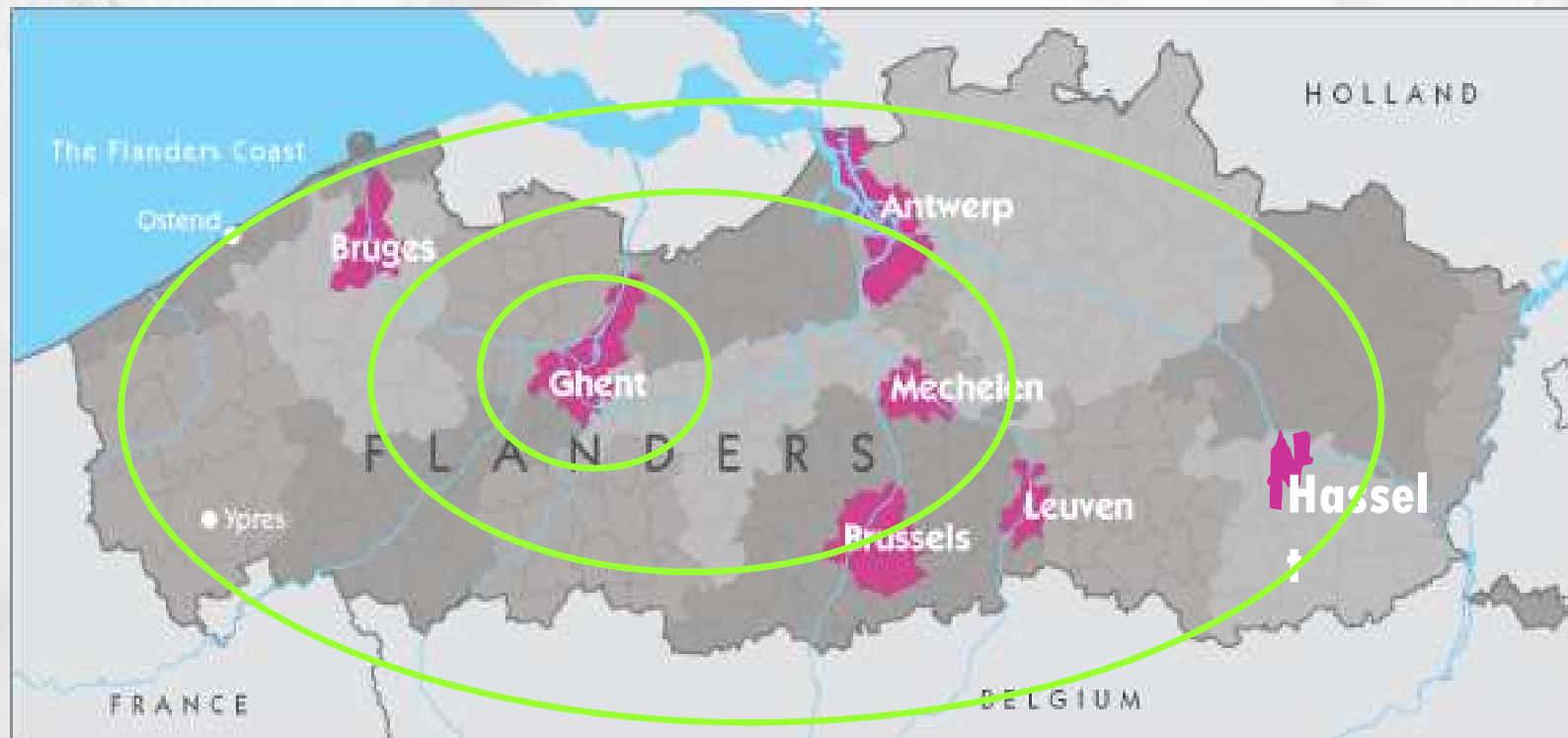
VISIE OP BBE IN VLAANDEREN

Slotevent 'Growing a Green Future'
17 december 2019, BBETC, Terneuzen



FLANDERS BIOBASED VALLEY

Vzw die de ontwikkeling van duurzame biogebaseerde activiteiten en de daaruit resulterende economische groei in Vlaanderen ondersteunt



BIOGEBASEERDE BEDRIJVEN IN VLAANDEREN



PRODUCTGROEPEN BIJ FLANDERS BIOBASED VALLEY

Feedstock / waste streams/ (waste) gas

Pretreatment, fermentation, biokatalysis



Biomaterials

Textile, paper, polymers, composites, construction material,...



Bio-energy

Biofuels (1st and 2nd generation), biogas,...



Biochemicals

Bulk and fine chemicals: surfactants, solvents, colorants, lubricants, special sugars,...

ONTWIKKELINGEN/TRENDS IN DE BBE IN VLAANDEREN

Feedstock / waste streams/ (waste) gas

Pretreatment, fermentation, biokatalysis



Biomaterials

Textile, paper, polymers, composites, construction material,...

Nieuwe ontwikkelingen in:

- Composieten
- Mycelium
- Bouwmateriaal
- Papier: moeilijk

BIOMATERIALEN

Nieuwe ontwikkelingen:

Roadmap 'Voedingsverpakkingen van de toekomst'

1. Circulaire verpakkingen
2. Active, intelligente en gepersonaliseerde verpakkingen
3. Voedselverpakkingen en logistieke processen



BIOMATERIALEN



Nieuwe ontwikkelingen:
Stora Enso investeert in pilootfabriek voor biogebaseerd
plastic verpakkingsmateriaal

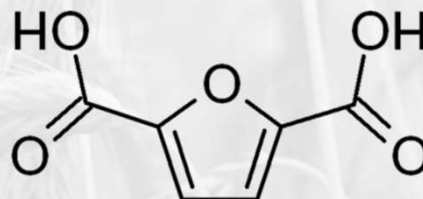


BIOMATERIALEN

Nieuwe ontwikkelingen:

Stora Enso investeert in pilootfabriek voor biogebaseerd plastic verpakkingsmateriaal

- Investment: 9 MIO EUROS
- Focus: developing a cost-competitive process for manufacturing FDCA (furandicarboxylic acid) from sugars (fructose). FDCA is a key component of the bio-based barrier material PEF (polyethylene furanoate), a bio-based plastic, mainly targeting the food and beverage industry.
- Location: at Stora Enso's Langerbrugge Mill in Belgium.
- Feedstock: initially industrially available fructose, in the future run the process on sugars extracted from wood and other non-food biomasses.



BIO-ENERGIE

Feedstock / waste streams/ (waste) gas

Pretreatment, fermentation, biokatalysis



Biomaterials

Textile, paper,
polymers,
composites,
construction
material,...

Bio-energy

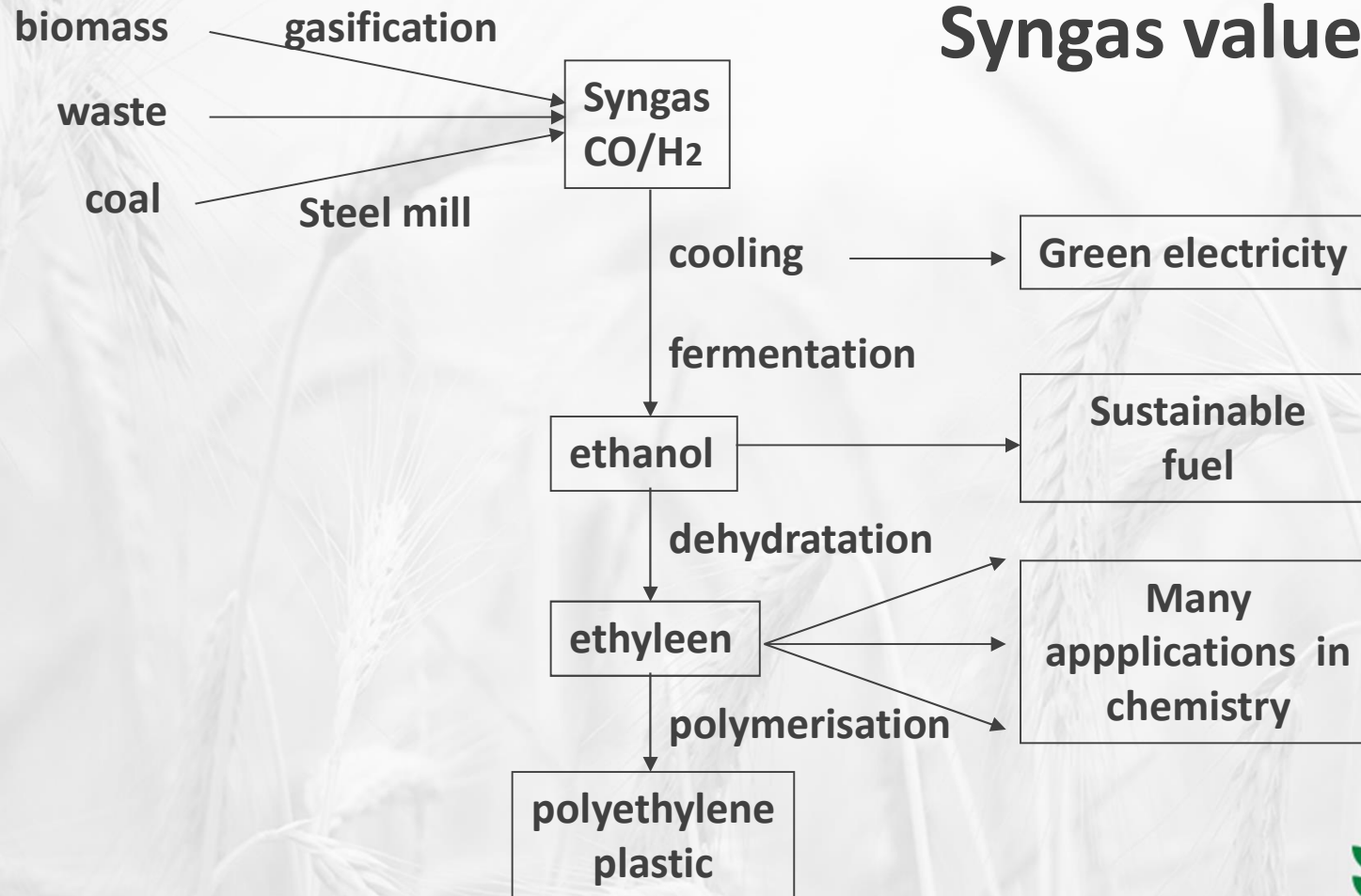
Biofuels (1st and
2nd generation),
biogas,...

Ontwikkelingen:

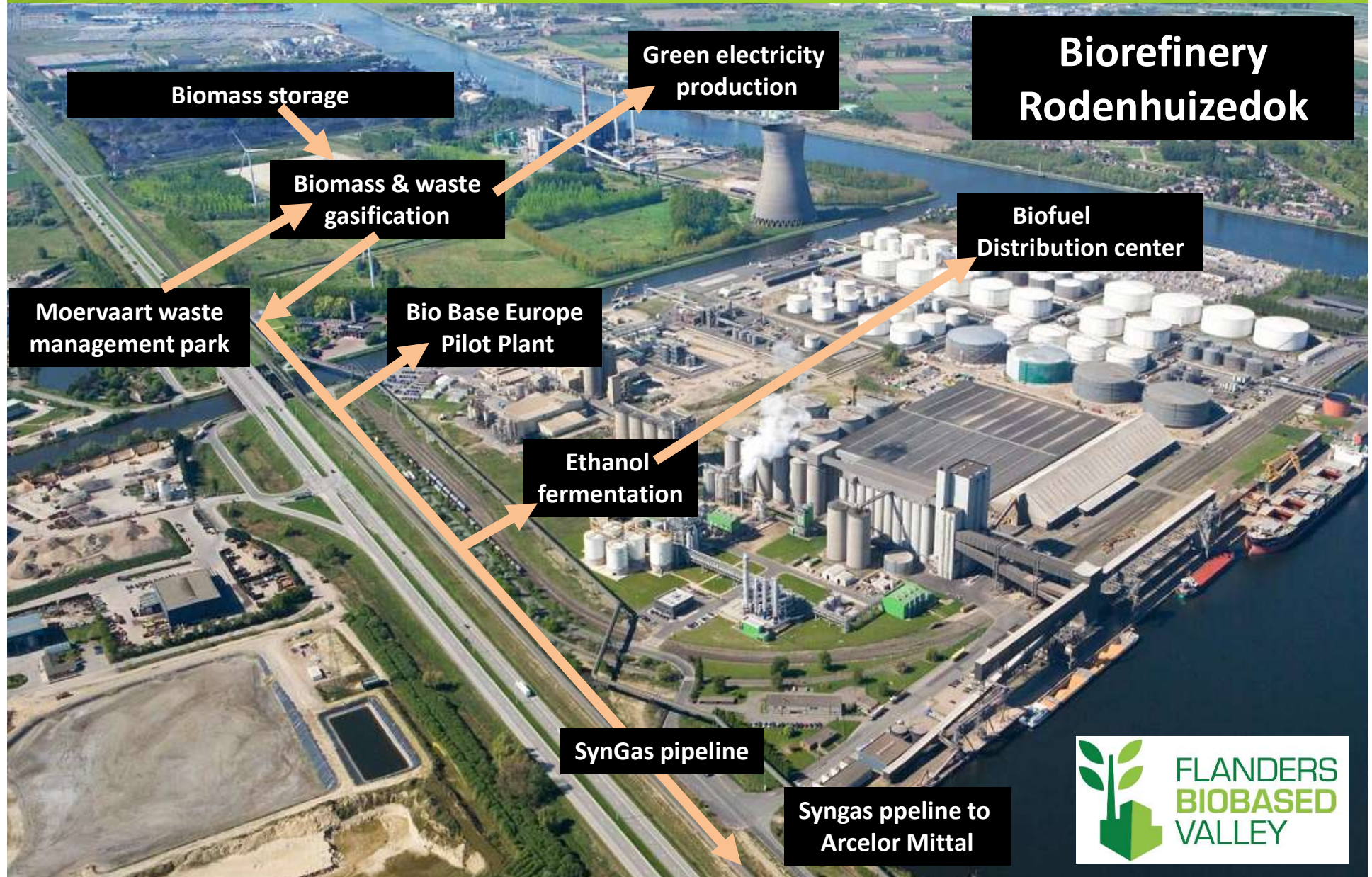
- Bestaande installaties diversifiëren
- Gerecycleerde brandstoffen
- Advanced fuels

BIO-ENERGIE: GHENT SYNGAS CLUSTER

Syngas value chain



BIO-ENERGIE: GHENT SYNGAS CLUSTER



BIOCHEMICALIËN

Feedstock / waste streams/ (waste) gas

Pretreatment, fermentation, biokatalysis



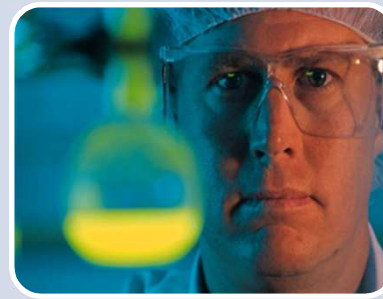
Biomaterials

Textile, paper, polymers, composites, construction material,...



Bio-energy

Biofuels (1st and 2nd generation), biogas,...

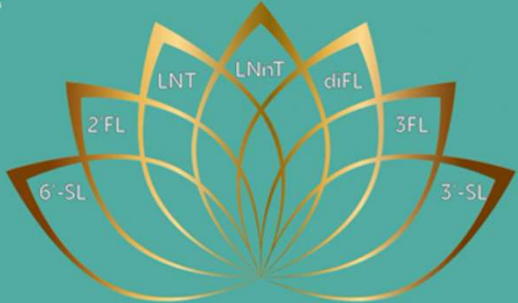



Biochemicals

Bulk and fine chemicals:
surfactants,
solvents,
colorants,
lubricants,
special sugars,...

BIOCHEMICALIËN

Specialty carbohydrates

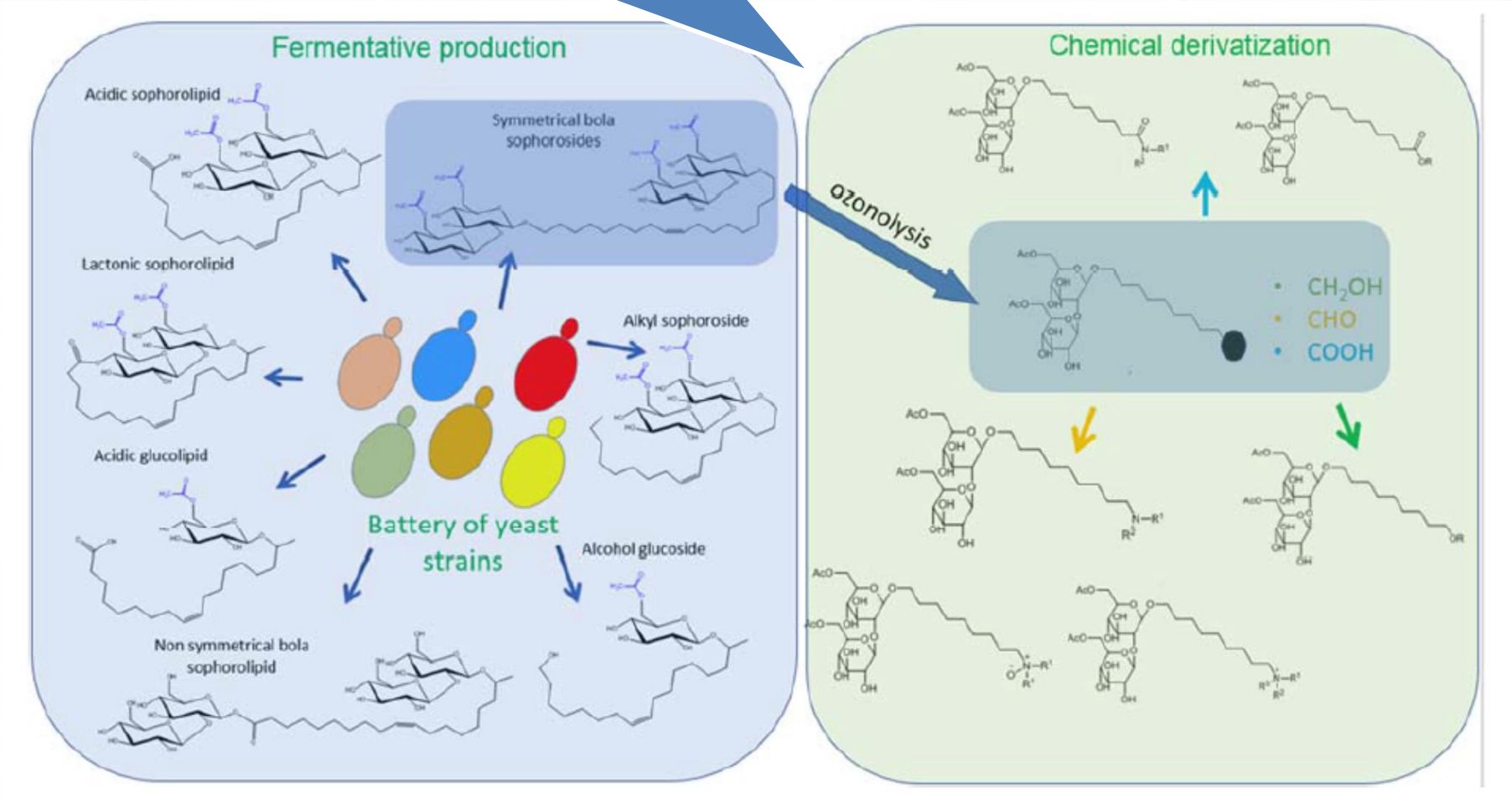


INBIOSE
Human Milk Oligosaccharides



BIOCHEMICALIËN

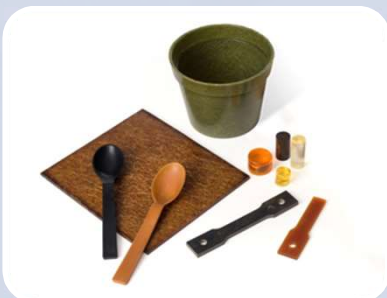
Biosurfactanten -> AppliSurf project



GRONDSTOFFEN

Feedstock / waste streams/ (waste) gas

Pretreatment, fermentation, biok...



Ontwikkelingen:

- Link met de primaire sector versterken
- Eiwittransitie

Biomaterials

Textile, paper, polymers, composites, construction material,...







Bio-energy

Biofuels (1st and 2nd generation), biogas,...

Biochemicals




Bulk and fine chemicals: surfactants, solvents, colorants, lubricants, special sugars,...

EIWITTRANSITIE

Type	Eiwitingrediënt
 Peulvruchten	Soja
	Erwten
	Veldbonen
	Lupine
	Kikkererwten
 Bijproducten zetmeelindustrie	Aardappel
	Tarwe
 Zaden	Hennep
	Quinoa
 Waterplanten	Zeewier
	Waterlinzen (eendenkroos)
 Insecten	
 Microbiële eiwitten	Microalgen
	Schimmeleiwit
	Bacteriën

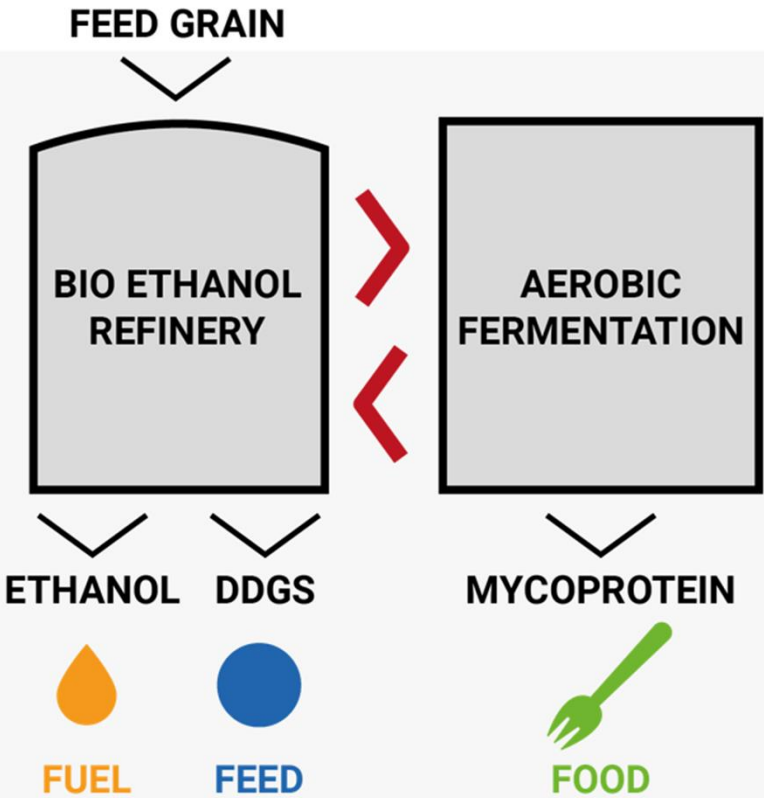
Bron: Eiwittransitie in Vlaanderen (Blonk Consultants, 2018)

EIWITTRANSITIE

	Insecten		Littlefood (Waals) Inagro (onderzoek) Millibeter Tor royal Protein Farm Top Insect De Smedt Insects Kriket
	Waterplanten	Zeewier	Sioen Industries
		Waterlinzen (eendenkroos)	
	Microbiële eiwitten	Microalgen	Proviron Avecom Nutrition Sciences
		Schimmeleiwit	
		Bacteriën	
	Vleesstructuren		Solina Group Ojah (Colruyt)
	Vleesvervangers		Noble Health Food Damhert De Hobbit Greenway La vie est belle Lima De Keyzer-Ossaer Culinor

Bron: Eiwittransitie in Vlaanderen (Blonk Consultants, 2018)

EIWITTRANSITIE: PLENITUDE FLAGSHIP PROJECT



FBBV: STRATEGISCHE ACTIES

Acties:

- Verhogen visibiliteit
- Versterkte samenwerking met de primaire sector
- Versterkte samenwerking met andere clusters, mn. Biobased Delta
- Projectontwikkeling

THANK YOU!

Sofie Dobbelaere
Managing Director

www.fbbv.be

Sofie.Dobbelaere@FBBV.be

