FLANDERS' FOOD



Samen sterk voor groei

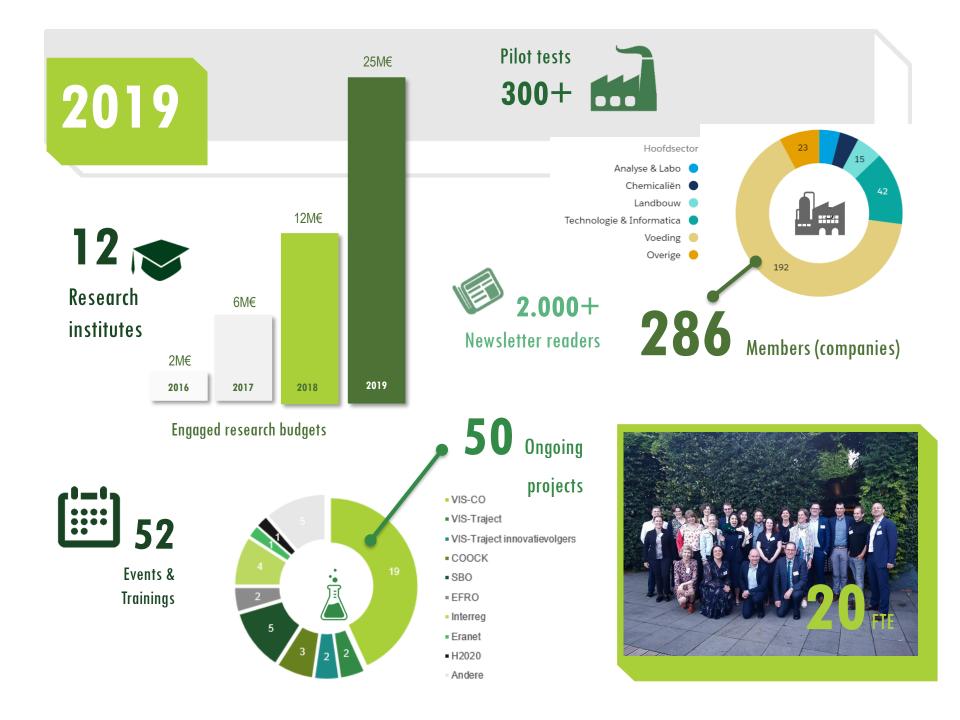
Workshop Primary production in biobased value chains February 20, 2020, Brussels, Belgium



SPEARHEAD CLUSTER FOR AGRIFOOD

- Industry driven innovation platform with focus on growth and economic value creation
- •Networked organization with academic partners (universities, RTO's as imec, ILVO, ...)
- •Networked organization with innovation partners (other industry driven clusters)
- Collaboration with the Flemish government
- •Collaboration with the farmer associations (Boerenbond and ABS) in Flanders





For the industry

LEAD TO KNOWLEDGE



LEAD IN KNOWLEDGE



For companies

Business driven knowledge

Demand driven knowledge

ACCELERATE EFFICIENT & EFFECTIVE INNOVATION



Exploit and disseminate state of the art

CREATE/CROSS VALUE CHAINS



Explore new knowledge horizons

LEAD TO KNOWLEDGE



Bringing state-of-the art knowledge to the companies

- Events
- Projects (collective)
- Newsletters



Cobbs zorgen ervoor dat de productielijn op een flexibele manier kan geautomatiseerd worden. De mogelijknedem net cobbs zijn oneindig, maar hoe begin je eraan in de praktijk? Is het echt 'plug & produce,' zoals sommige fabrikante heweren?' Tijdens een recente hand-son workshop over collaboratieve robots (cobots), in samenverking met Flanders FOOD, begeleden de adviseurs van Sims de deelnemens tijdens de eenste stappen van het implementeren van een concrete opdracht.

SPOTLIGH

BETTER, CLEANER,

SAFER MEAT

Meer lezen









4 PROGRAMS



LEAD IN KNOWLEDGE



RESILIENT & SUSTAINABLE AGRIFOODSYSTEMS WORLD CLASS FOOD PRODUCTION PERSONALISED FOODS & HEALTHY DIETS NEW & SHIFTING RESOURCES

Strategic & fundamental research

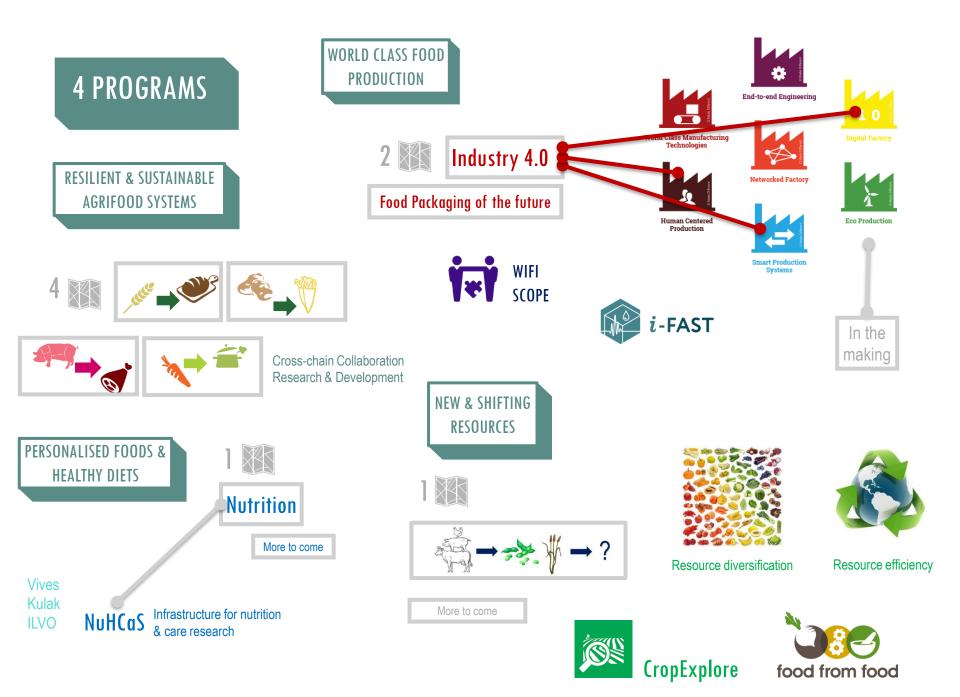
- SBO (collective)
- ICON (cooperative)
- International (H2020)
- ..



Several roadmaps per program







The Digital Journey Tracker guides your journey in the digital world by presenting a range of digital tactics your company can apply based on the line of business you are in and the impact area you want to target.



FF

-

FLANDERS' FOOD

SENSORISCH ONDERZOEK

EEN KANDLEIDING VOOR DE OPZET VAN SMAAKPROEVEN

ACCELERATE EFFICIENT & EFFECTIVE INNOVATION



Business support

- Pilot infrastructure •
- Tools & guides •
- Advice •
-





And many more ...

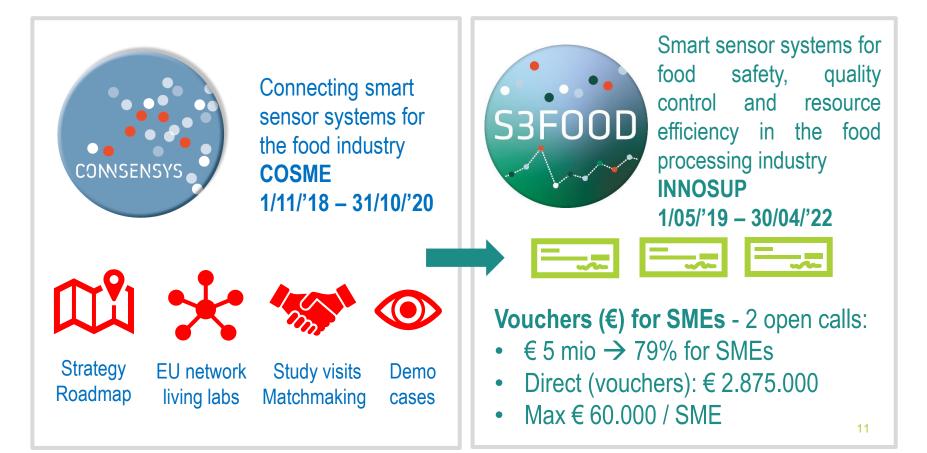
۲

. . .



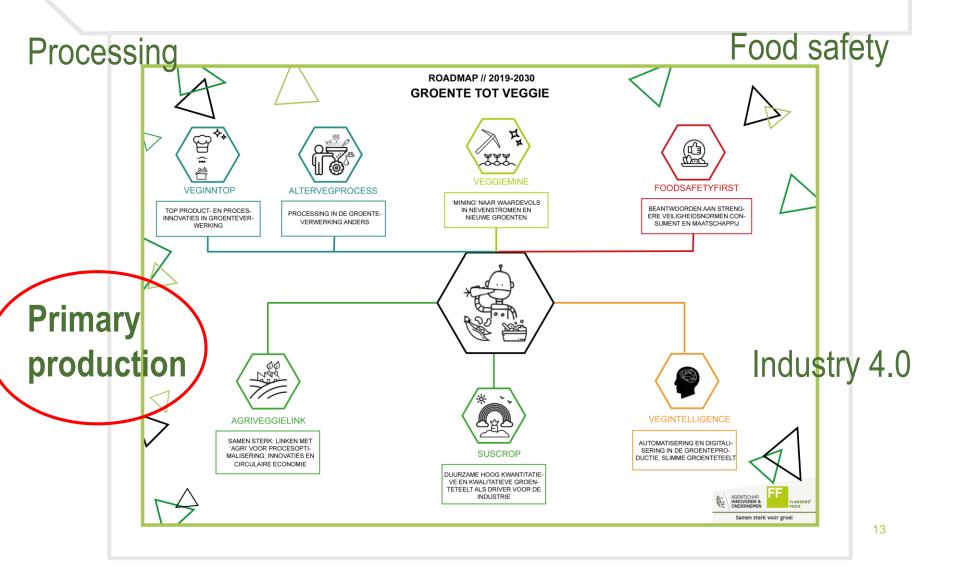
EU PROJECTS

Smart Sensors 4 Agri-food: 2 approved projects





PROJECT GENERATION IN VALUE CHAIN: FROM FIELD TO FORK EXAMPLE ROADMAP 'FROM VEGETABLE TO VEGGIE PRODUCT'



EDIBLE VS NON-EDIBLE BIOMASS

Edible biomass \rightarrow food ('food from food')

■ Non-edible biomass → feed/materials/chemicals/nutrients/energy

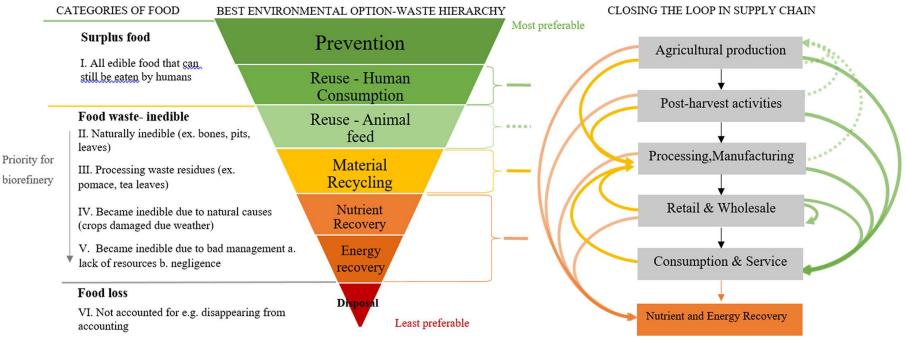


Figure from Teigiserova et al. (2020)

EXAMPLE PROJECTS INCLUDING PRIMARY PRODUCTION / BIOBASED

Collective R&D: CropExplore

- Strategic basic research (cSBR): EffSep, TexProSoy
- **ERDF:** Plant Protein Pilot, Belgian Fries Pilot
- BBI-JU: Model2Bio, BioSwitch

PROJECT 'CROPEXPLORE'



- Exploration of alternative resources for application in food/feed
 Collective R&D project (VIS-CO): 1,2 MEUR; start 02/2018; end 01/2022
- Partners: FF (coordinator), ILVO, UGent, KU Leuven

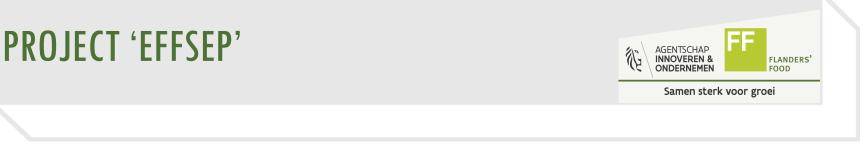


PROJECT 'CROPEXPLORE'



- Database with agricultural info (yield, seasonality, growing in EU/BE), chemical composition, functionalities and applications
 Development of new recipes, based on new resources
- 602 resources:
 - fruit and vegetables (247)
 - green leaves and herbs (78)
 - grains (54)
 - nuts and seeds (52)
 - legumes (51)
 - tubers and roots (45)
 - fungi and yeasts (47)
 - seaweed (28)

	GEWASSEN	GRONDSTOFFEN	REVIEWS	UITLOGGEN
Home				
GEWASSEN				
View Edit				
Hier komt de info van gewassen				
<u>Gewas toevoegen</u>				
	Categorie		Teelt in Europa	
Tarwe: zachte (gewone)	Graangewassen & pseudogranen		Ja	
Pijlwortel/ Arrowroot	Groenten & fruit			
Fonio (wit)	Graangewassen & pseudogranen		Nee	
Citroengras (sereh)	Eetbaar bladgroen & onkruid			



- **Efficient separation macroconstituents** (proteins, polysaccharides, lipids) from biomass with conservation of **functionality for food/feed**
- Strategic basic research (cSBR): 3,0 MEUR; start 11/2019; end 10/2023
- Partners: UGent (coordinator), KU Leuven, UHasselt, FF
- Decision tree: generic biomass pre-treatment + separation
 Steering committee of companies



- Impact of processing on techno-functional and nutritional properties of soy protein
- **cSBR**: 1,1 MEUR; start 10/2019; end 09/2023
- Partners: KU Leuven (coordinator), ILVO, FF
- Processes: extraction, drying, high moisture extrusion (HME)
- Biomass: soy, cultivated in Flanders



PROJECT 'PLANT PROTEIN PILOT'



- European Regional Development Fund (ERDF): 520 kEUR; start 01/2020; end 12/2021
- FF is promotor
- Pilot infrastructure at Food Pilot (ILVO, Melle, Belgium) to process plant protein:

from primary crop \rightarrow extruded protein product







Europese Unie

PROJECT 'BELGIAN FRIES PILOT'



- **ERDF**: 693 kEUR; start 01/2020; end 12/2022
- FF is promotor



- Pilot infrastructure at VEG-i-TEC (UGent, Kortrijk, Belgium) to process potato/vegetable -> fried product
- Co-financing by companies: Belgapom, Vamix (Vandemoortele), Huis van de Voeding



PROJECT 'MODEL2BIO'



- Modelling tool to give value to agri-food residual streams in biobased industries
- H2020-**BBI-RIA**: 5,9 MEUR; start 05/2020; end 04/2023
- Coordinator: CEIT-IK4 (Spain)
- FF is partner
- Decision-support system for valorization of agri-food residual streams from a technical/economic/ environmental/social perspective

PROJECT 'BIOSWITCH'



- Encouraging brand owners to switch to biobased in highly innovative ecosystems
- H2020-**BBI-CSA**: 1,0 MEUR; start 05/2020; end 04/2022
- Coordinator: CLIC Innovation (Finland)
- FF is partner
- Toolbox to encourage brand owners from 4 different sectors (chemistry, forestry, food, agro) and at different transition stages to switch to biobased approach
- Food case: sustainable packaging for food products using bioplastics from food waste

CONCLUSION

- FF = networked organization in the agri-food system in Flanders and Europe
- FF = project broker for cooperation in the quadruple helix (industry-academia-government-society)
- More involvement of primary production in our projects
- FF is **full member** of the Bio-based Industries Consortium (**BIC**)
- Role of FF in projects is:
 - partner with expertise in dissemination, communication, exploitation
 - coordinator for selected topics

CONTACT

- <u>maarten.uyttebroek@flandersfood.com</u> M +32 494 19 77 65
- Wetenschapsstraat 14A, Brussels, Belgium
- www.flandersfood.com

