



STRATEGIES AND OPPORTUNITIES FOR FOODBANKS TO ENGAGE IN FOOD PROCESSING INITIATIVES

14/12/2022

Etienne Rubens



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ZERO w



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OUR MISSION

1. Fight food poverty
 - assure food security for people in need
2. Fight food waste



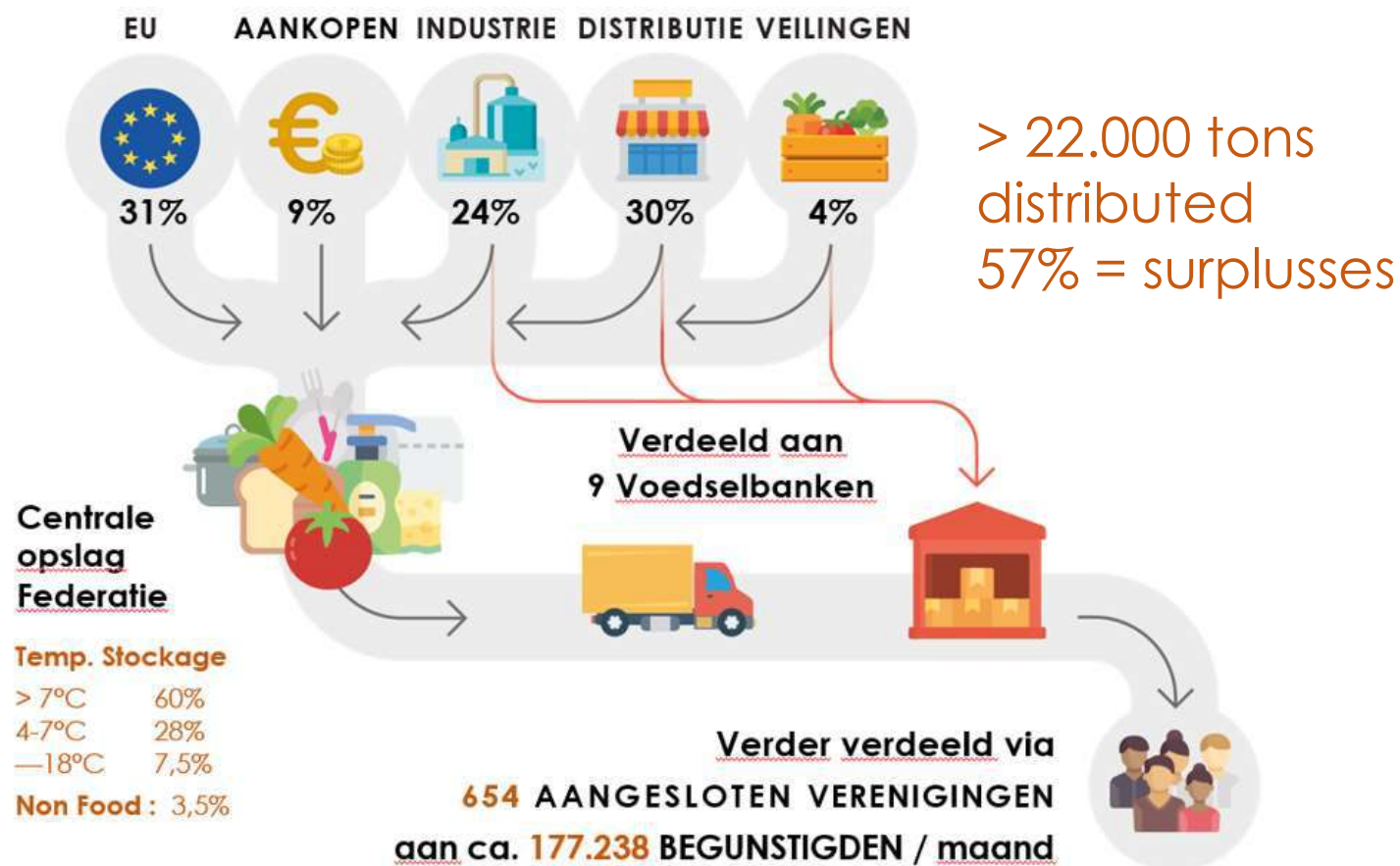
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OPERATIONAL FLOW FOOD BANKS + KEY-FIGURES





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REASONS TO ENGAGE IN PROCESSING

1) Increase our supply & distribution **volume**;

- Demand increases in 2022 by +15% (after survey)
- <> Supply remains stable and will decrease

2) Increase **quality**/nutritional value of our distributed food to people in need

- Appel & pear juices from FOX are very healthy

3) Supply sources in constant evolution → need to look for innovation & opportunities

- Eg. 2022-inflation > decrease from industry
- Fruit&veg°: Flemish monitor: 10% of volume taken out of market goes to food aid/banks.
- Inspiration via European Federation of Food banks
 - Eg. case of Foodbank Spain for orange processing



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OUR ROLE IN ZEROW-PROJECT

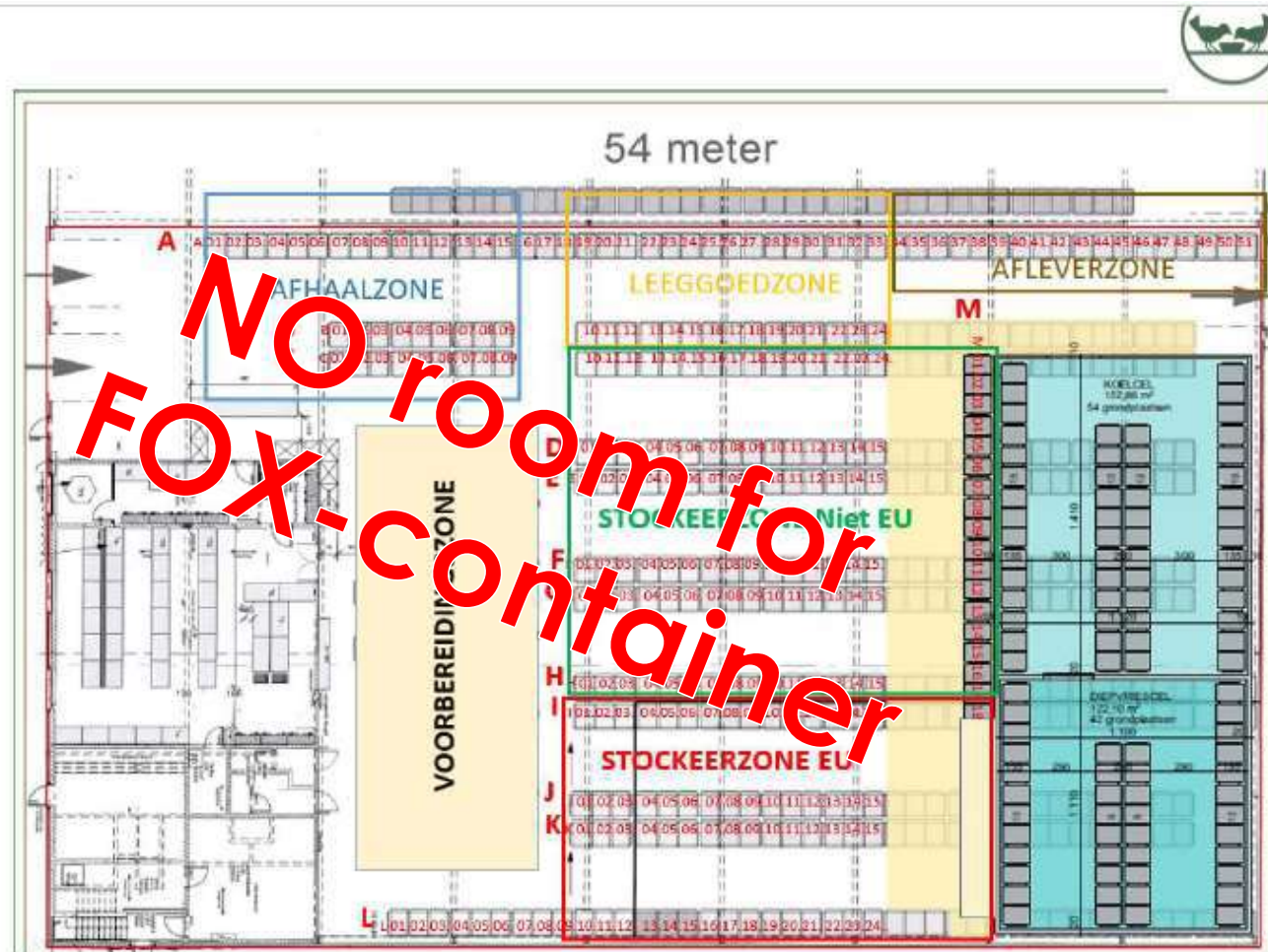
- Evaluate if the new developed mobile unit can be installed and tested in a Food bank.
 - If not, give recommendations on other possibilities and partners
 - Evaluate feasibility of processing for donation, on every level
 - Economically/business/financial
 - Legislative
 - Practical/logistical ...
- meeting 13/12/2022 with Flemish dep.Agriculture + ILVO confirms possibilities/opportunities for Food banks

FOOD BANK LIMBURG - LOCATION



768 plaatsen op 0, 1 en 2
70 plaatsen verhuurd KT

10/10/2022



Large cold-room pos + neg.

FOOD BANK LIMBURG - LOCATION

Extra unit to
rent in fall 2023
for storing
FOX-
container?



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THANKS

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BEDANKT VOOR UW AANDACHT

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Food Tech Brainport

Without waste, healthy food for everyone

Without waste, healthy food for everyone

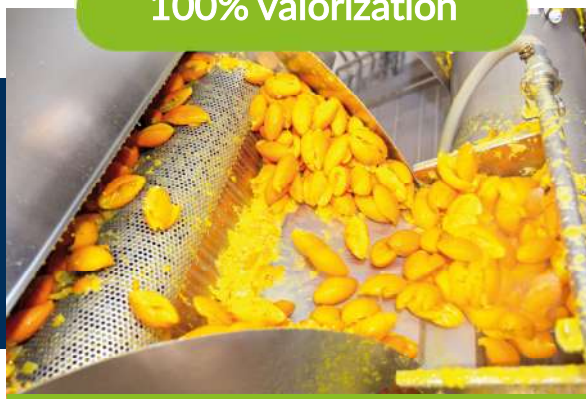
With our **network** of technology providers, food processing companies and knowledge and research institutions, we work on a **future proof food industry**. We connect the food processing industry to innovative technologies, talent, research and funding.

Our focus areas are:

Handsfree production



100% valorization



Longer shelf life



We work on:



**Food Tech
community**



**Innovative
technologies**



**Projects
& clusters**



**Company
support**



**Research
& education**

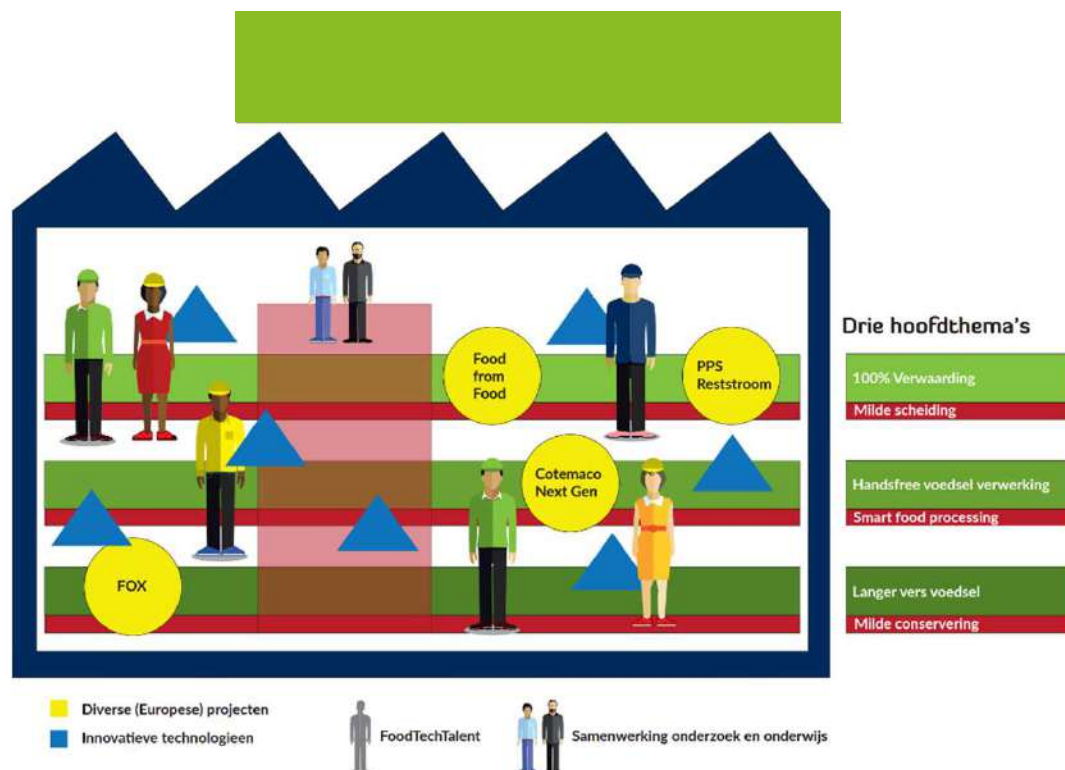




community



Food processing facility



Easy accessible practical location for testing and (technically and economical) validation of processing plant based streams to semi finished products and ingredients.

- physical location for testing and production
- scaling-up possibilities
- temporary or permanent production locations
- showroom for innovative technologies

Innovative technologies

Mild conservation, mild separation, smart food processing

- HPP – High Pressure Processing
- RMF – Radio Magnetic Freezing
- PEF – Pulsed Electric Fields
- Membrane technology
- ATFD - Agitated Thin Film Dryer
- Vegetable processing for juices, concentrates, pulp
- Fermentation
- RF heating (soon on site)
- Many more in our network



Projects and clusters

We are building collaborations, clusters, consortia on regional, national, and international level

🌱 Food from Food

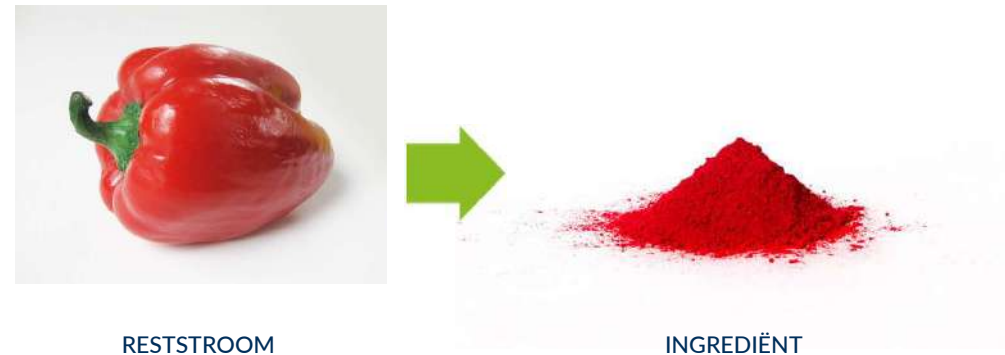
Valorization of plant based streams towards new ingredients

🌱 Bell pepper cluster

Innovative food products from peppers

🌱 Cotemaco

Efficient production process by implementing cobots and smart sensors



7.000 TONS IS WASTED EACH YEAR

Food Tech Brainport is investigating opportunities to use the 'lost' peppers and their nutrients in foods or food ingredients. This study pays special attention to carotenoids, fiber, and the "spicy" substances in peppers.

Partnercase

PeelPioneers

“Food Tech Brainport helped us with the valorization of orange peels. Thanks to their financial support through the Food from Food project we were able to start extracting valuable ingredients. As a result, millions of kilos of peel are now being converted into valuable raw materials”.



Partnercase

Beefy Green

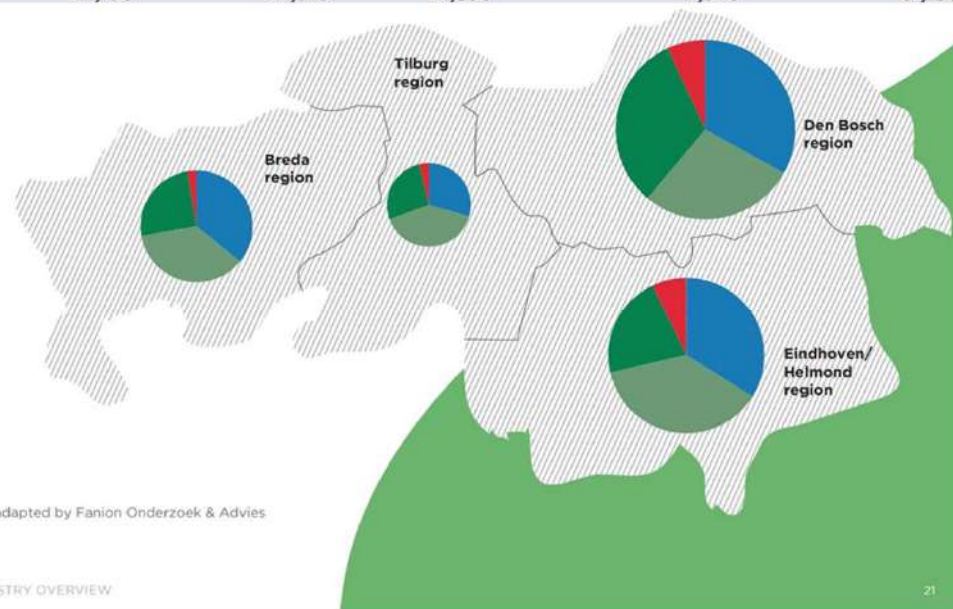
Beefy Green came to Food Tech Brainport via the Food from Food project. All Beefy Green activities, from testing to production and sales, now take place at the Food Tech Brainport location. Thanks to the direct lines to the technology and ingredient suppliers, the process is efficient.



Food in Noord-Brabant

NUMBER OF JOBS IN AGRIFOOD BY REGION AND SUBSECTOR

Region	Primary sector	Food processing	Wholesale	Other: suppliers + R&D	Total AgriFood jobs
Breda region	6,150	6,210	4,270	440	17,070
Tilburg region	3,660	4,980	3,290	470	12,400
Den Bosch region	9,220	7,760	8,910	1,890	27,780
Eindhoven/Helmond region	8,160	8,960	5,060	1,720	23,900
Brabant	27,190	27,910	21,530	4,520	81,160

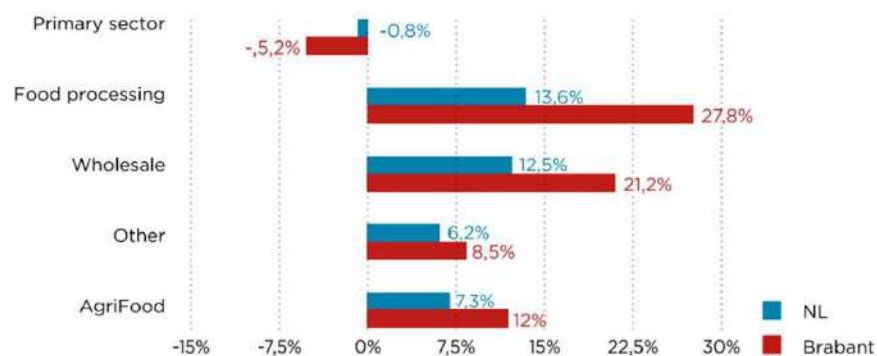


Food in Noord-Brabant

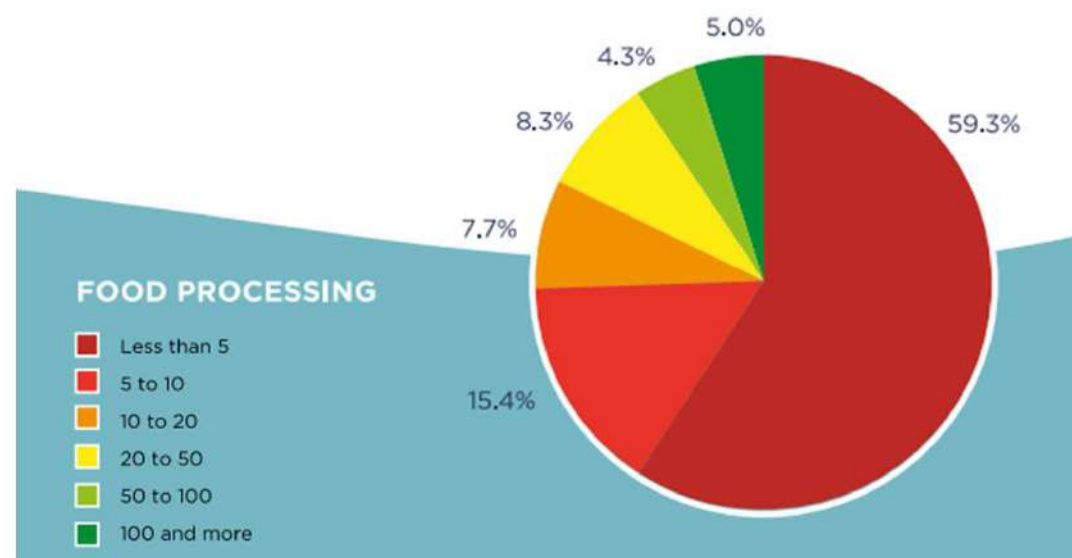
BUSINESSES AND JOBS IN BRABANT AND THE NETHERLANDS IN THE AGRIFOOD PRIORITY INDUSTRY, 2018

AgriFood	Number of businesses	Number of jobs
Brabant	13,912	81,160
The Netherlands	88,470	468,700
share	15.7%	17.3%

EMPLOYMENT FIGURES, 2014-2018, BRABANT AND THE NETHERLANDS



NUMBER OF BUSINESSES BY SIZE PER SUBSECTOR, 2018



Experiences from food processors

Difficult to get support for further development of higher TRL levels (technology readiness levels)

Valley of death



Experiences from food processors

It is easier to ask for 1 million
funding then for 10.000 euros

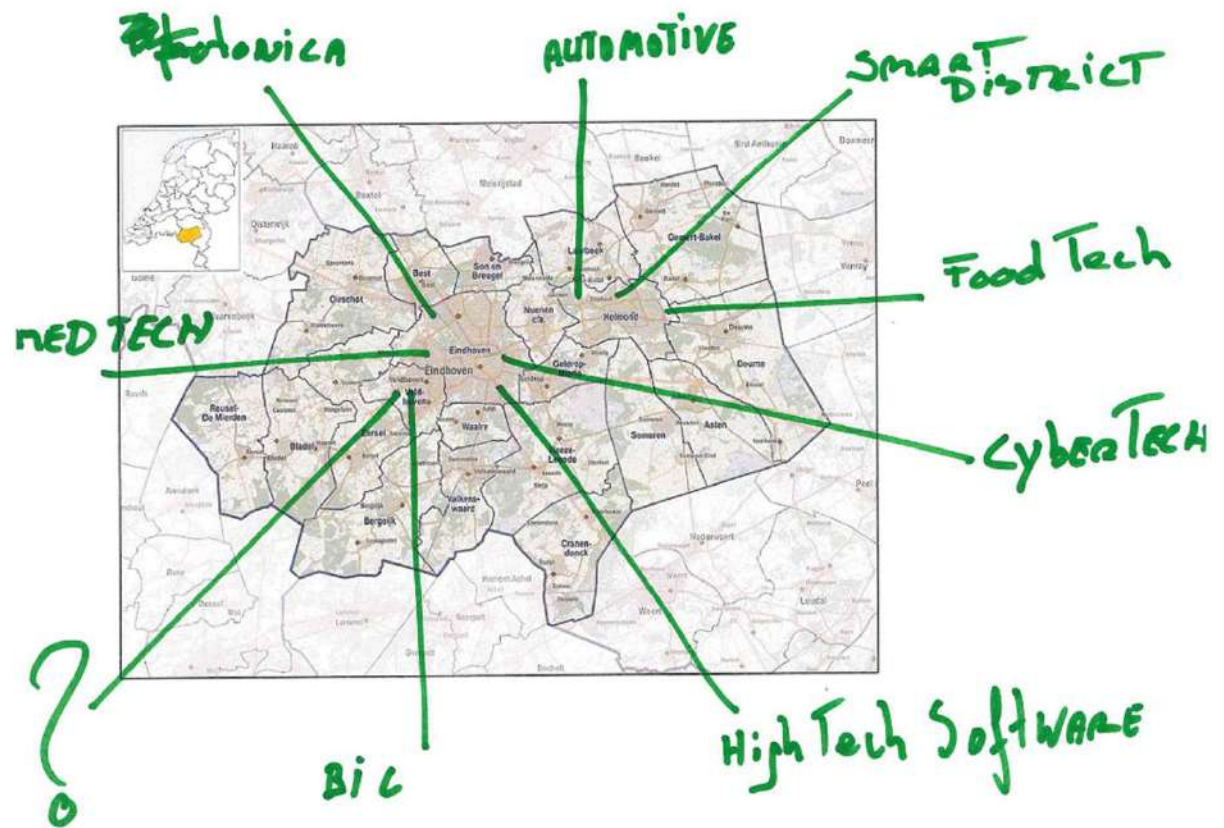
For SME it is difficult to get
funding for (sustainable)
innovation



Experiences from food processors

Cooperation throughout
the chain and crossover
with other sectors is
essential to tackle current
challenges

Working together with
partners you don't know
is difficult



Just some challenges:
digitization – short of staff – plant based – biobased – insecurity supply
– sustainability – complex consumers

Experiences from food processors

Fragmentation of initiatives and organizations that have similar goals but different topics/focus

How to find the right place?





Challenges valorisation of side streams

- Shelf life
- Lack of continuous supply
- Access to expertise and facilities
- Access to market
- Added value vs cost
- Law
-

Thank you for your attention!



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ZeroWaste

Systemic Innovations Towards a
Zero Food Waste Supply Chain

SILL4 - Mobile food valorisation as a service

FOX project – EU workshop

Bart Van Droogenbroeck, PhD, EV ILVO

14/12/2022



The problem

ZeroWaste

Systemic Innovations Towards a Zero Food Waste Supply Chain

FW $\approx$ 20%
of EU food
production⁽¹⁾

3rd GHG
emitter
globally⁽²⁾

Lock-in effects?

'Ugly food' identification at a late stage, reduces the possibilities for alternative valorisation

High uncertainty and mismatch of food supply & demand in the food bank chain

Understanding of packaging as an unavoidable secondary waste stream rather than an FLW-reducing opportunity

Missing economic feasibility of alternative FLW valorisation process

Inability to steer consumer buying behaviour at the moment of purchase

Missing/fragmented FLW data

Unbalanced (unjust) allocation of FLW innovation cost/benefits among food chain actors

Primary focus at the lower levels of the FLW hierarchy

Limited food actor FLW capabilities especially in cases of diverse, seasonal & disruption-generated food surpluses

Optimal harvesting windows are disconnected from downstream supply chain capabilities and short-term demand

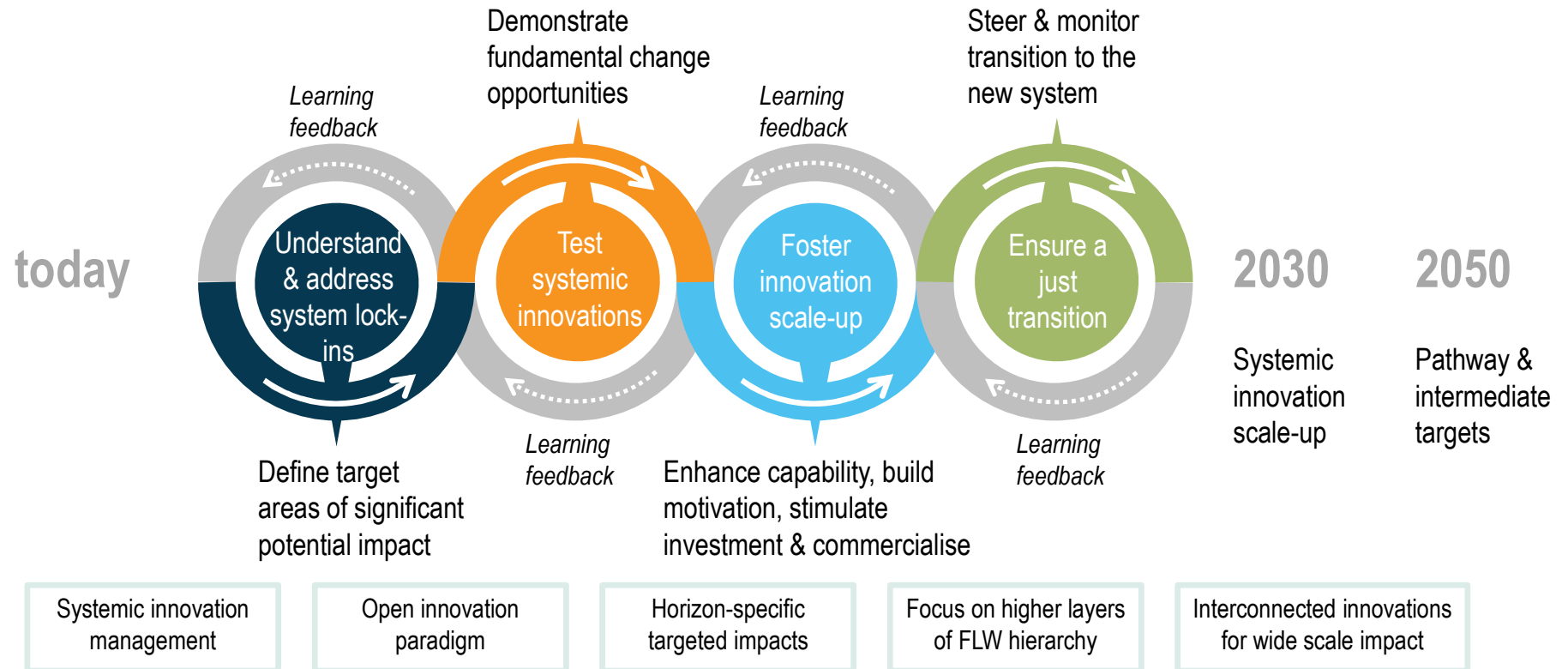
Access/ transportation to available food valorisation facilities is prohibitive for relatively small and seasonal food surplus

Best-before labels not reflecting real food condition and its shelf-life

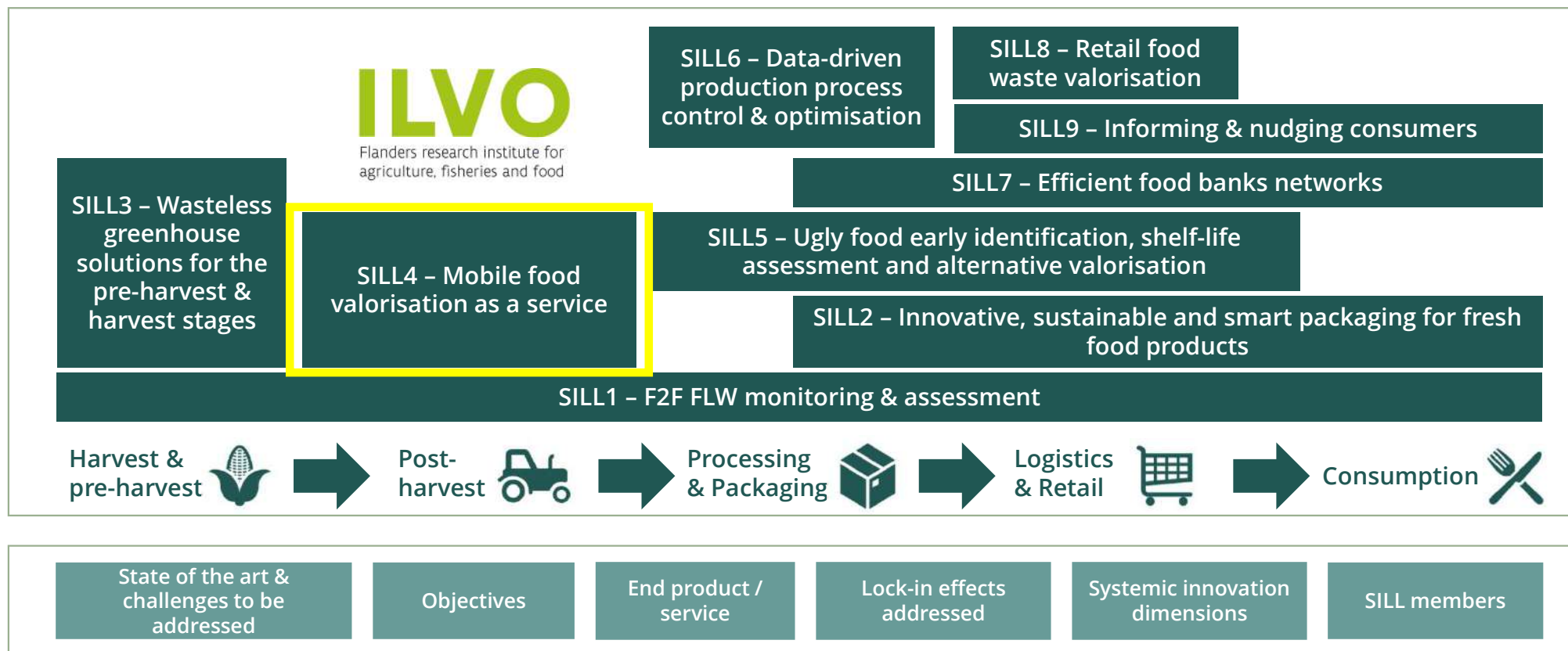
and more...

(1) JRC (2020) Brief on FW in the EU, EC's Knowledge Centre for Bioeconomy
(2) FAO (2015) Food wastage footprint & Climate Change

Our concept



From lock-in effects, to SILL designs



Our objectives

SILL4

01

Setup, prototype, test and demonstrate systemic innovations, to significantly reduce FLW

04

Assess the impacts of the innovations demonstrated in the SILLs and provide interpretation of results

07

Define a 'just' transition pathway to near-zero FLW, including intermediate EU targets, and policy recommendations

02

Establish interoperability through a 0FLW Data Space, for the SILLs and external users/ solution developers

05

Scale up the FLW innovations, and build region-specific strategies to stimulate investment in FLW reduction

08

Engage with EU, National and global initiatives and undertake appropriate dissemination & communication actions

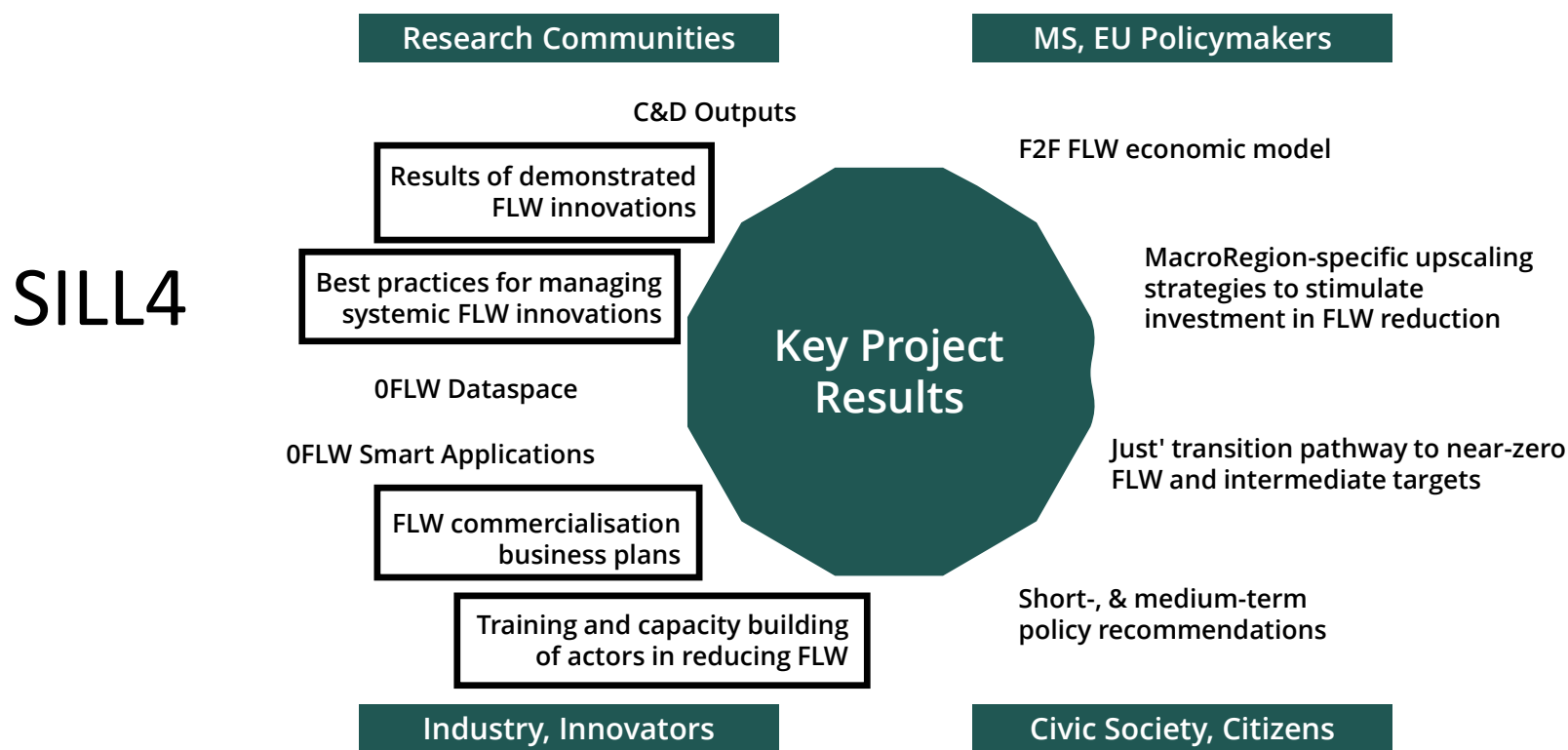
03

Provide a suite of data-driven FLW intelligence services, and generalise the smart applications developed in the SILLs

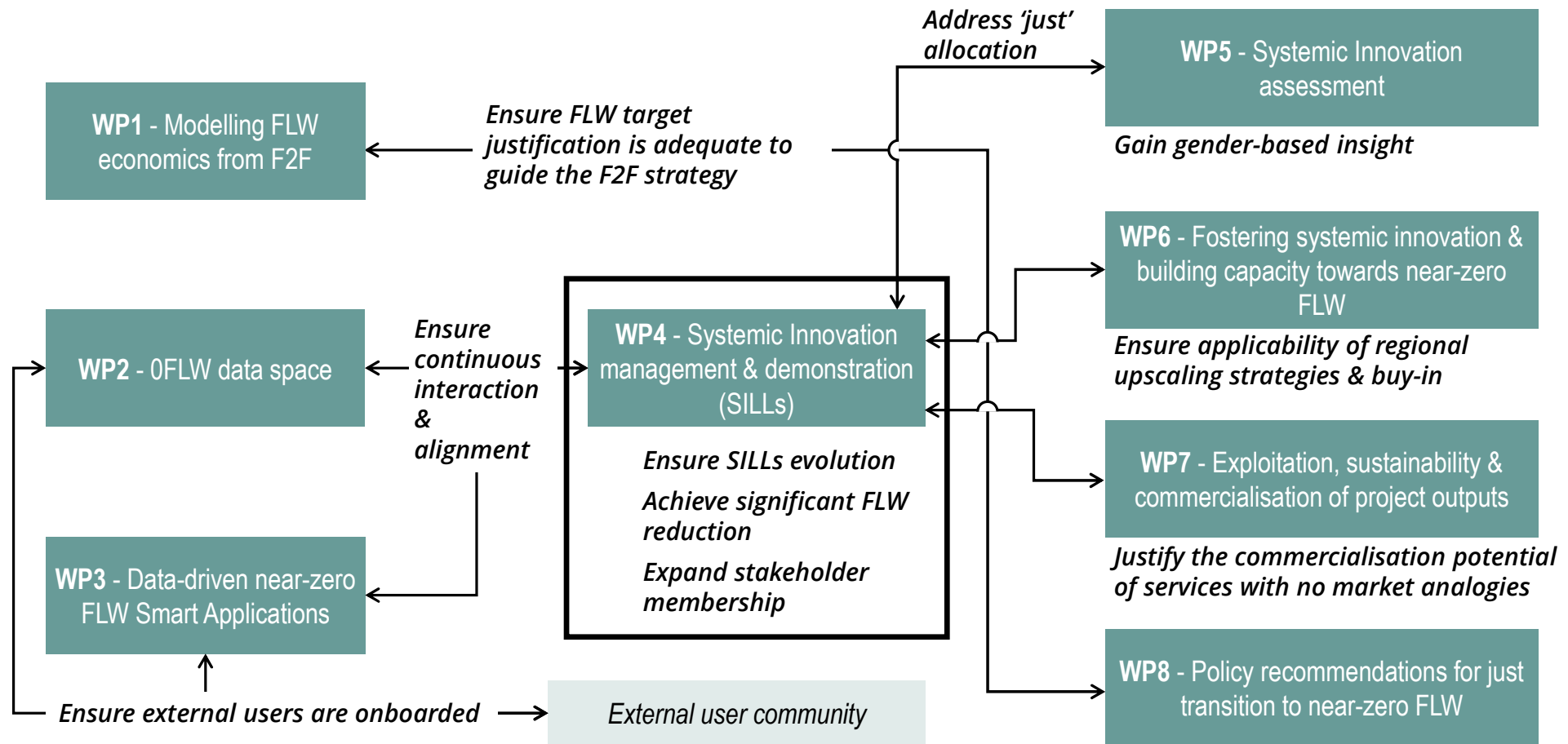
06

Advance ZeroW's innovative solutions commercially, and protect the strategic IP

What do we expect to deliver?



Key success factors



SILL4

Mobile food valorisation as a service

SILL4

Mobile food valorisation as a service

SILL Coordinator:

Bart Van Droogenbroeck



Flanders Research Institute for
Agriculture, Fisheries and Food

SILL Partners:



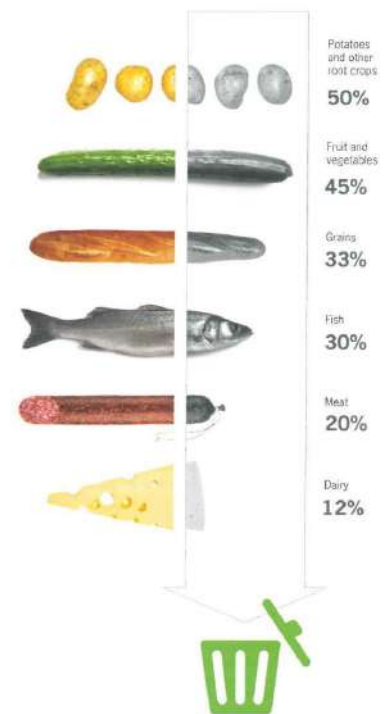
Grant Agreement no. 101036388

What is SILL 4about – problems to be solved – challenges?

- Huge volumes of high-quality **perishable** biomass (fruit, veg...) remain underutilized or used as feed or for energy generation, while **opportunities exist for turning them into high added-value products**.
- Their availability is variable and hence the **equipment** needed to deal with the processing of these fractions into stabilized, added value intermediate or end products **needs to be flexible and versatile**.
- **Such processing capacity is not available in most regions but is highly wanted/needed**
- **Transporting** relatively small and seasonal food surplus quantities to valorisation facilities is **prohibitive due to its cost**.

WASTE OF PERISHABLE PRODUCTS

Total waste per food category, in percentage of amount produced (Europe)



“

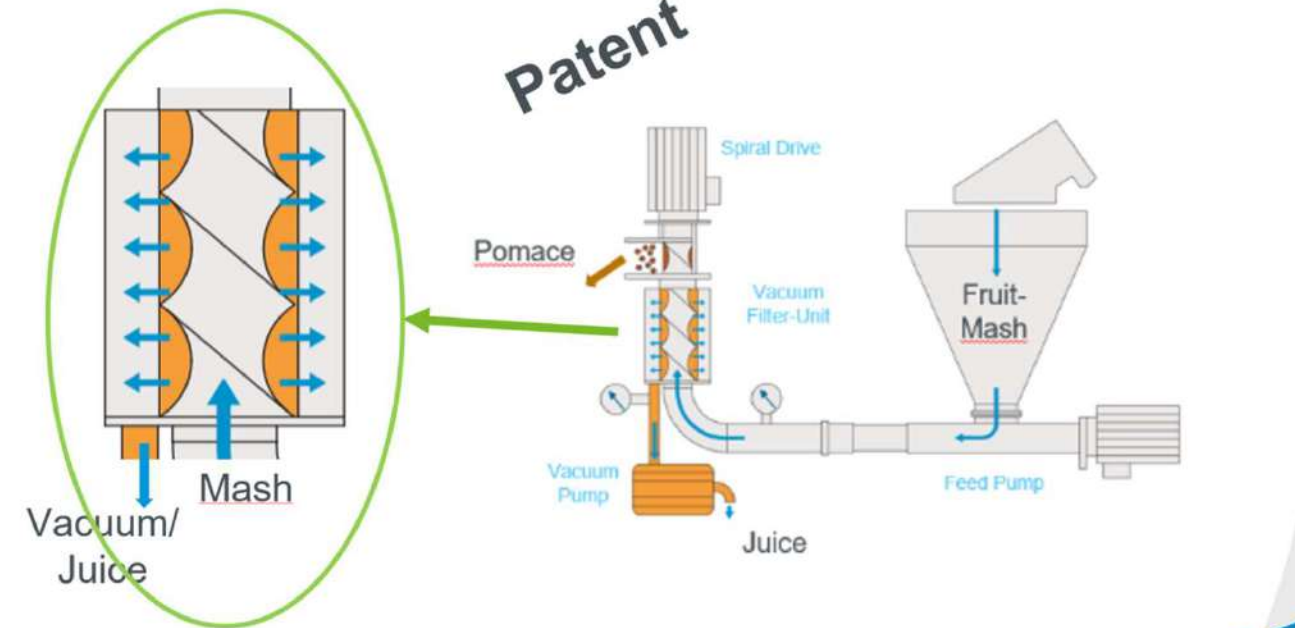
**Would mobile food
valorisation as a service
make a difference in food
waste valorisation?**

SILL4

SILL 4 – state of the art?

- Both EVILVO and DIL have experience with innovative processing technologies

What is Vacuuliq?



- The GEA VacuulIQ system is a **low-oxygen** spiral filter press system
- **Versatile**
- Proven to be able to process a **wide diversity of feedstocks**
- **Small footprint, high throughput**

GEA vacuuliq vacuum spiral filter

ZEROW



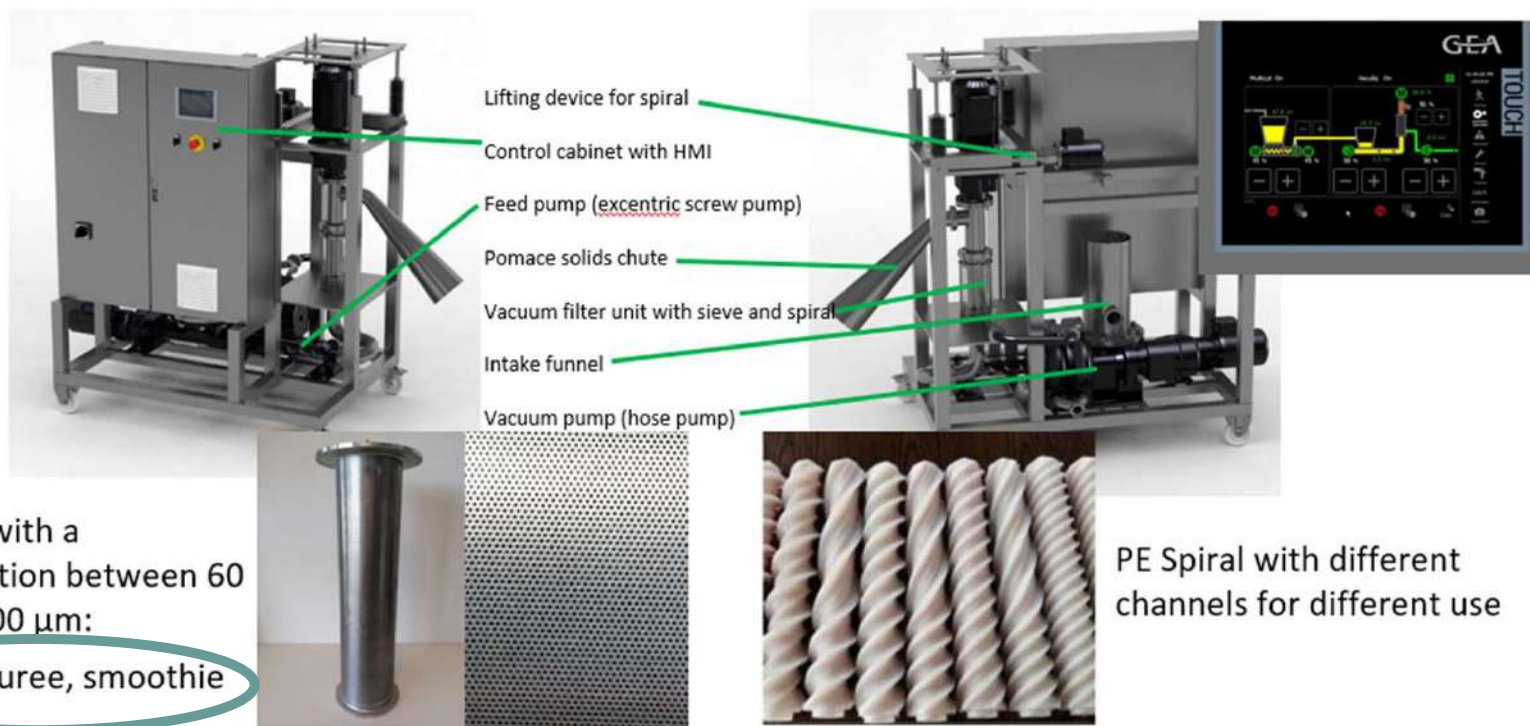
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12

SILL 4 – state of the art?

- Both EVILVO and DIL have experience with spiral filter press



SILL 4 – state of the art?

- Both EVILVO and DIL have experience with GEA spiral filter press



APPLE



PEAR



SPINACH



BLACK
CURRANT



GEA vaculiq vacuum spiral filter



SILL 4 – state of the art?

- Both EVILVO and DIL have experience with GEA spiral filter press

Puree

GEA engineering for a better world



GEA vacuulq vacuum spiral filter

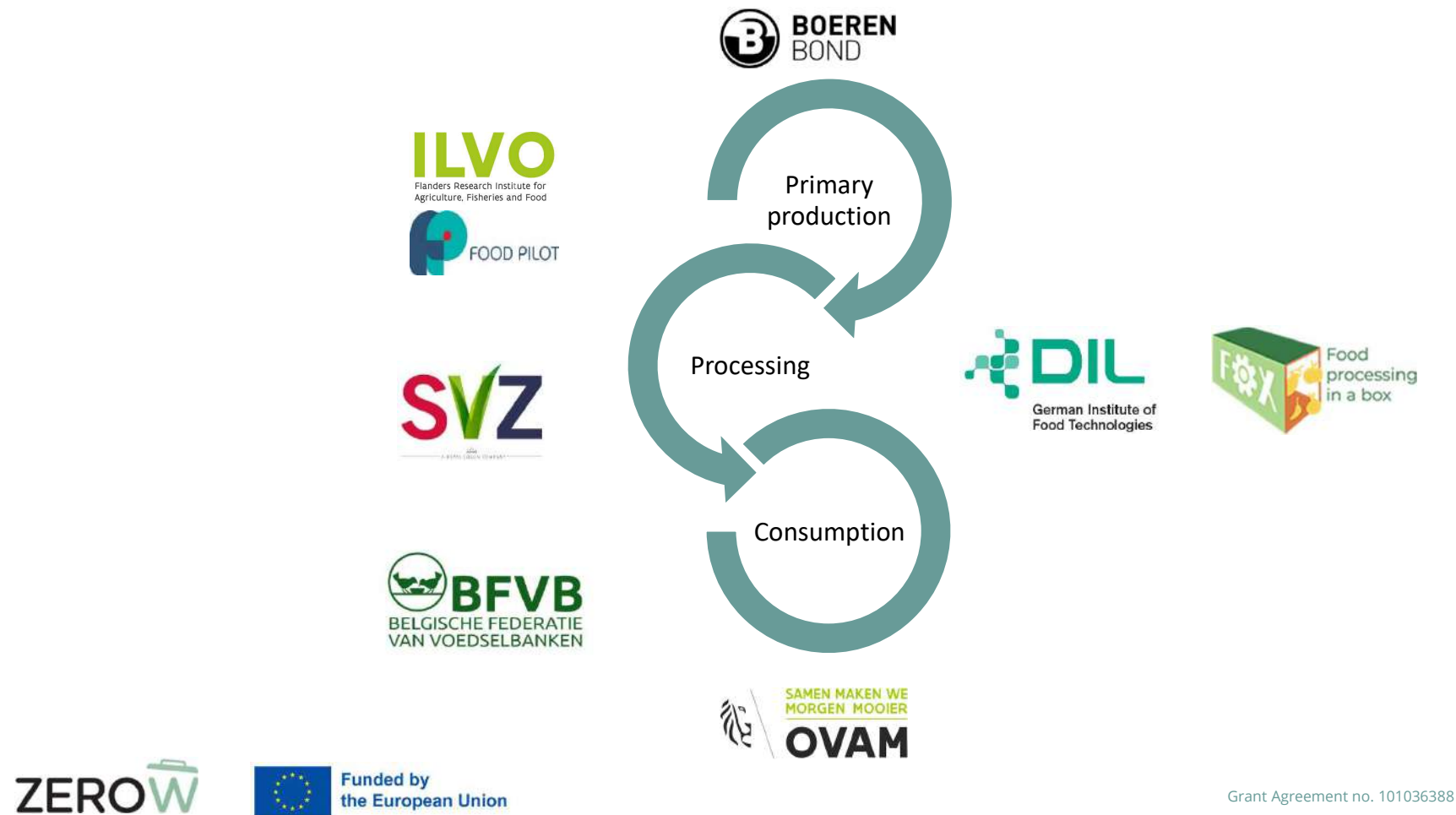


Current state – mobile fruit presses: conclusions

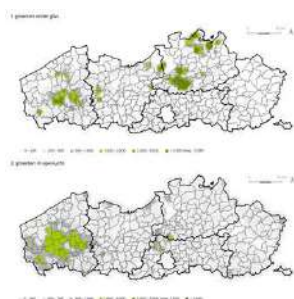
- Most (if not all) have similar **pressing** technology – best yields for **hard fruit species** (apples > pears> ... *max 10% softfruit*)
- Most (if not all) have similar **conservation** technology – basic heat treatment ‘**pasteurisation**’ – 80°C fors – *little control over temperature & holding time= quality*
- Most units have similar **packaging** options – **Bag-in-box** – 3L – 5L
- Units are **operational from about end of August ‘till end of october – 2-3 months only**
- Units can process as little as **75-100 kg/client** from **multiple clients at one location**; or on **location of single client from 2000-3000 kg onwards**



SILL 4 – Strategic partnership



SILL 4 – Process & next steps



ZEROW

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18

1 – SILL4

Update on SILL4 activities so far

Round 1 – Implementation & DC activities SILL4



Foto-impressie testdag 26/07/2022 ZESPRI SUNGOLD

ZEROW project - B2BE

Grondstof:

600 t/month overripe
ZESPRI SunGold™
Port Zeebrugge, Belgium



Perksoek en sap na vermalen hakselaar + spiraalfilterpers voormiddag:



Opstelling namiddag: links multicut met daarna VaculiQ spiraalfilterpers



Sungold kiwi sap in de extractiecel van de spiraalfilterpers



Zeer droge perskoek bekomen met optimale procesparameter: bijna enkel nog schil en pitjes in perskoekfractie



Wilderhof – soft fruit producer

15-20% of fruit is Class II – low price sold to processors or not valorized



Strawberry



Raspberry



Blackberry



Grape

Research questions:

- How can we optimal use of the underutilized fruit species?
- What are the optimal processing parameters for multicut + vaculiq (mill & press present in FOX container)?
 - Is there a difference in processing mix of feedstock vs mixing mono-juices?

Wilderhof – soft fruit producer

Research questions:

- How can we optimal use of the underutilized fruit species?
 - => Recipe selection, in discussion with grower
 - => Process parameters tested: 7 channel spiral vs 4 channel spiral



Strawberry
50%



Raspberry
20%



Blackberry
20%



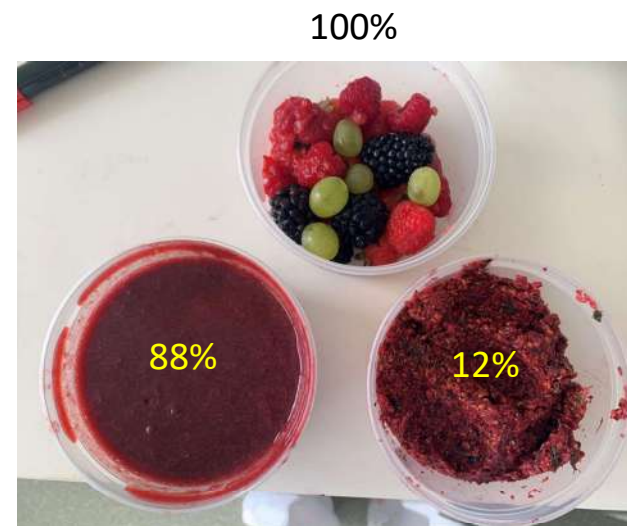
Grape
10%



Wilderhof – soft fruit producer

Research questions:

- How can we optimal use of the underutilized fruit species?
=> Recipe selection, in discussion with grower



Strawberry	Raspberry
50%	20%
Blackberry	Grape
20%	10%

ZEROW



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Wilderhof – soft fruit producer

Preliminary Conclusions

- Mixing feedstock has no impact on yield compared to blending mono-juices!
- Recipe selection is crucial
- Quality control by-products is key in delivering high quality processed product
- By-product might represent commercial value (e.g. seeds from Raspberry & Blackberry).
- Quality analysis ongoing

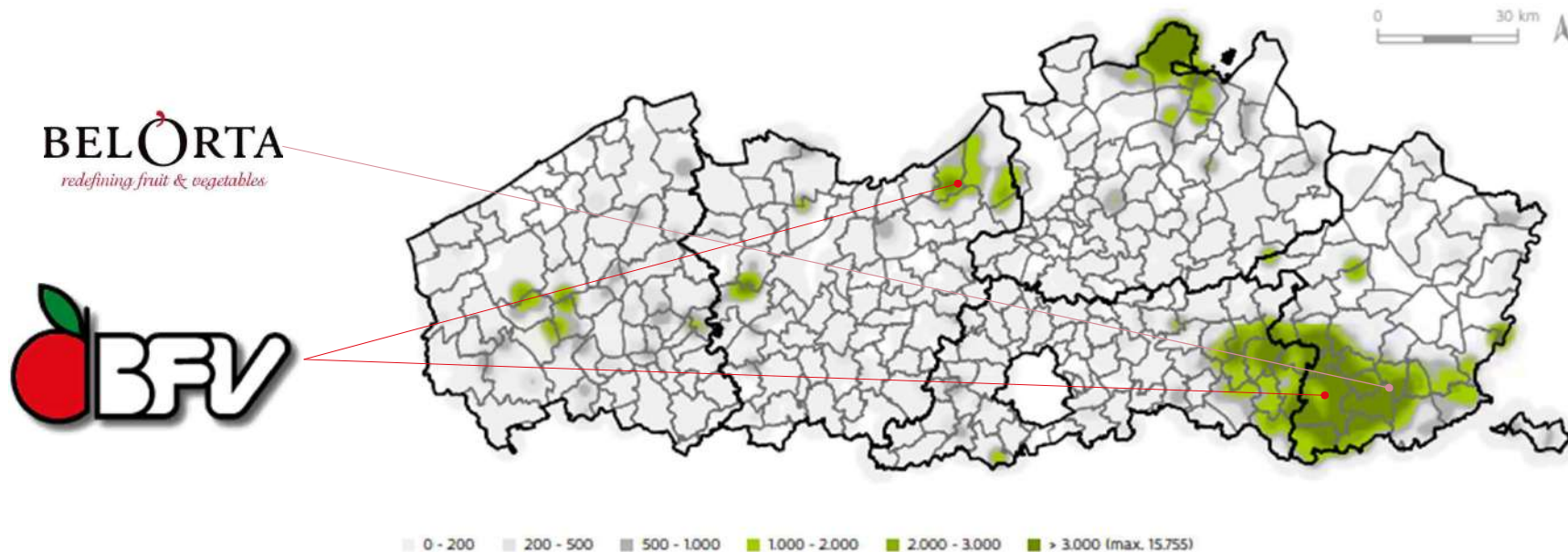


3 – SILL4 Round 2 &3

Where, when, on which feedstocks would we like to use the mobile unit in Flanders?

Round 2 – 2023 – Limburg– focus on **Fruit** FLW based recipes

Figuur 3. Intensiteitskaart van de fruitsector, euro standaardoutput per ha, 2017



Interested actor Limburg : VB = ZEROW partner

VBL IN A NUTSHELL

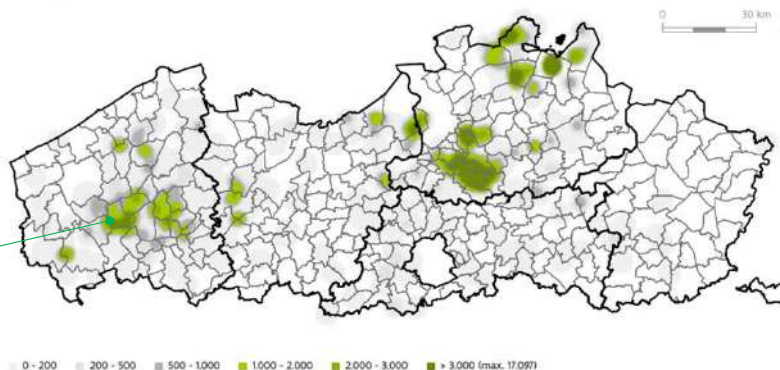


- What type of product? Target nutritional deficit ?
- Any available feedstock locally available?
- Cold chain up to delivery can be guaranteed
- Business model? How can production cost be covered?

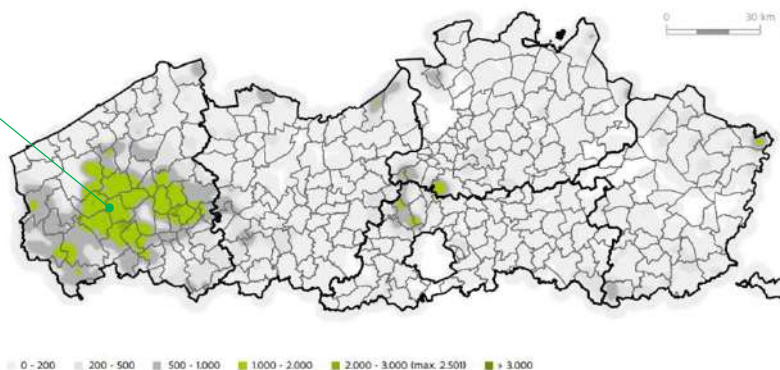
Round 3 – 2024 - West-Vlaanderen– focus on Vegetable FLW based recipes



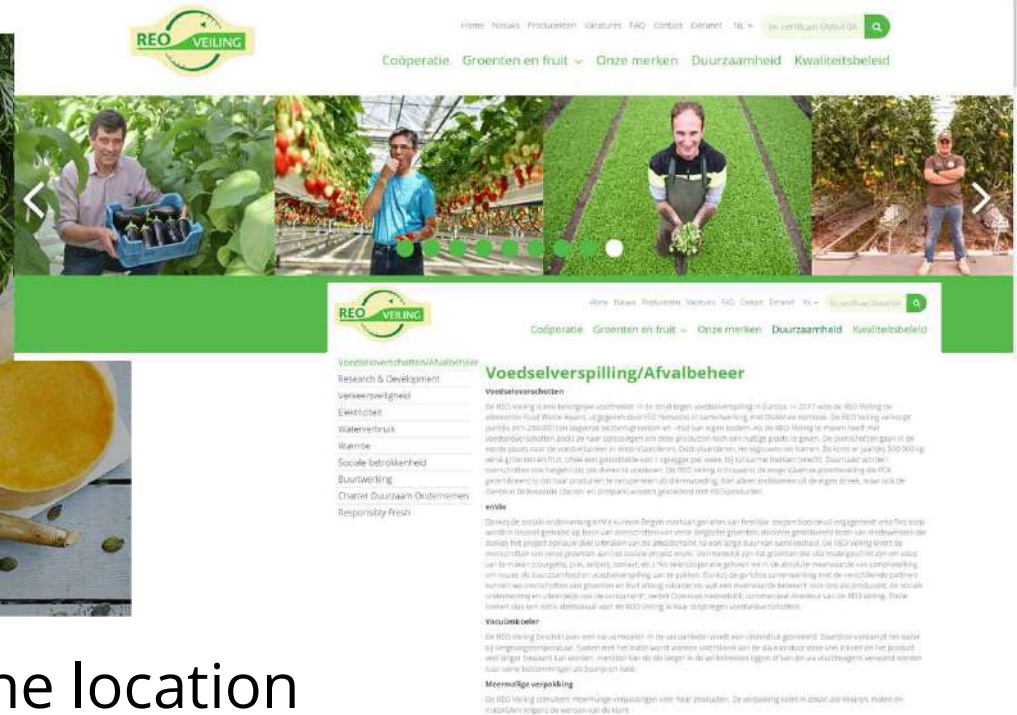
1. groenten onder glas



2. groenten in openlucht



Interested actor West-Vlaanderen: Flemish auction - REO



- Mix of fruit & vegs available in one location
- Surplus produce or class II produce normally not harvested
- Logistic hotspot
- Cooperation of growers – invest together?

SILL4 -Mobile food valorisation as a service Challenges...

- Feedstock supply?
 - Growers with surplus and or class II undervalorized produce
 - PO's with surplus
- Business model?
 - Surplus produce donated to food banks and processed before donation
 - Grower's/PO's as processors or buyers
 - Market?
- Regulatory aspects
 - Food safety/HACCPP - FAVV/EFSA
 - Waste /waste water... - OVAM/VMM
 - Novel Food – FOD Economy/EFSA



Innocent Apple juice

500 ml Prijs per liter € 3,21 Dagelijks

2.89

Voeg toe

Na levering minimaal 7 dagen houdbaar

Ons appelsap smaakt net als wanneer je zelf sap fruitig, zoet, fris en nogal appelig natuurlijk. Gem. konden vinden.

- Bevat het sap van 6 appels
- Niet van concentraat



ZEROw

Funded by
the European Union

From € 0,75/liter (FC) over ...€3,21/liter (NFC)... up to €9/liter (NFC)
Grant Agreement no. 101036388

Questions?

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Systemic Innovations Towards a Zero Food Waste Supply Chain

ILVO – Flanders research institute for Agriculture,
Fisheries and Food

A top-down view of various fresh ingredients arranged around a central chalkboard. The chalkboard, with a light-colored wooden frame, has the words "ZERO WASTE" written in white chalk. Surrounding the chalkboard are several items: a bunch of red tomatoes in a white paper bag, a bunch of yellow spaghetti, a whole kiwi and a sliced kiwi showing its green flesh and black seeds, a carton of white eggs, a bottle of yellow oil, a jar of white yogurt, a jar of orange lentils, a jar of yellow lentils, and a bag of brown lentils. The ingredients are placed on a light-colored, possibly marble, surface.

SIRL in Zerow

SIRL = Systemic Innovation Readiness Level
a tool to pave the way for SI commercialization & scaling

- SIRL = ZeroW's main tool for monitoring the innovation process in the SILLs
 - Visualises the progress for each relevant innovation dimension
 - used to assess innovation progress in the SILLs
 - encourages the SILLs to address as many relevant innovation dimensions as possible
 - helps the SILLs to identify bottleneck innovations
 - guides scaling strategies

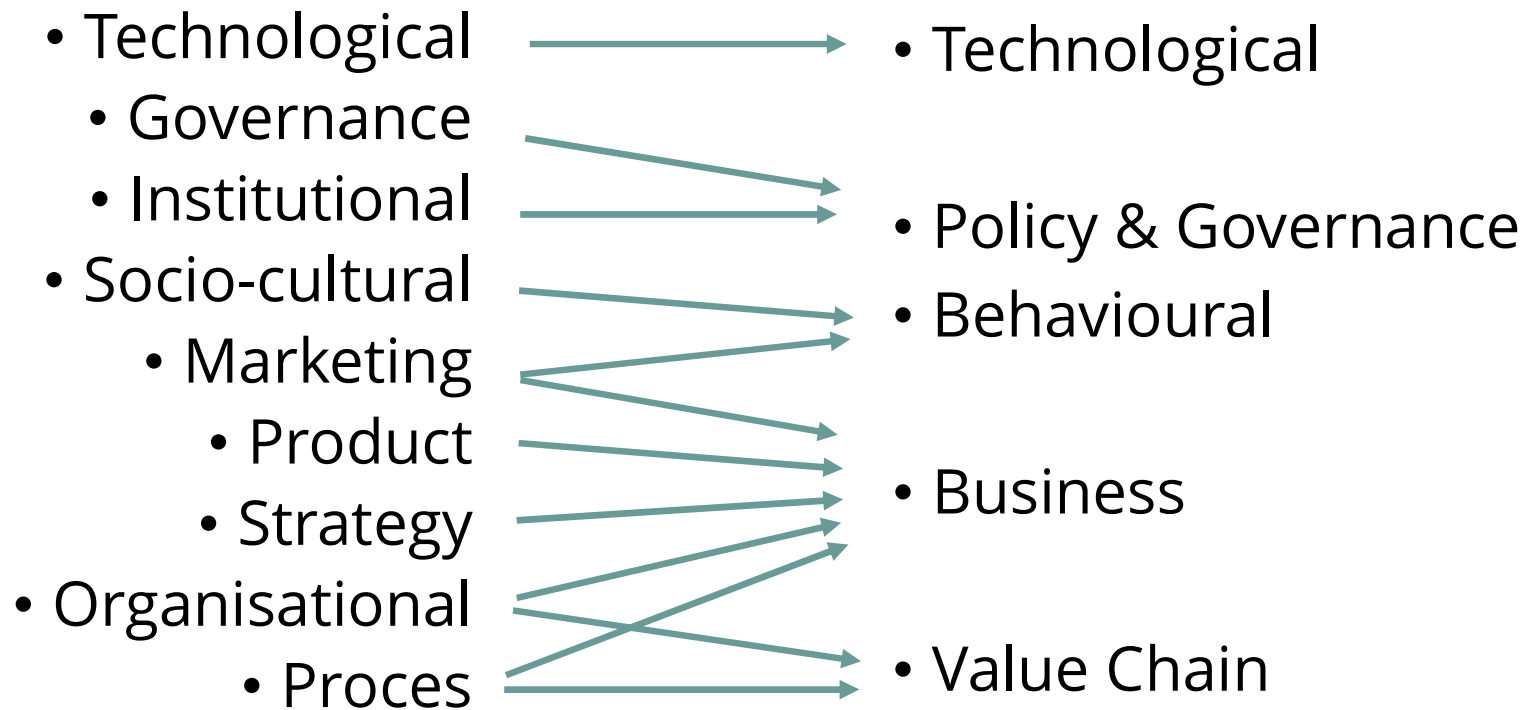
Systemic innovation

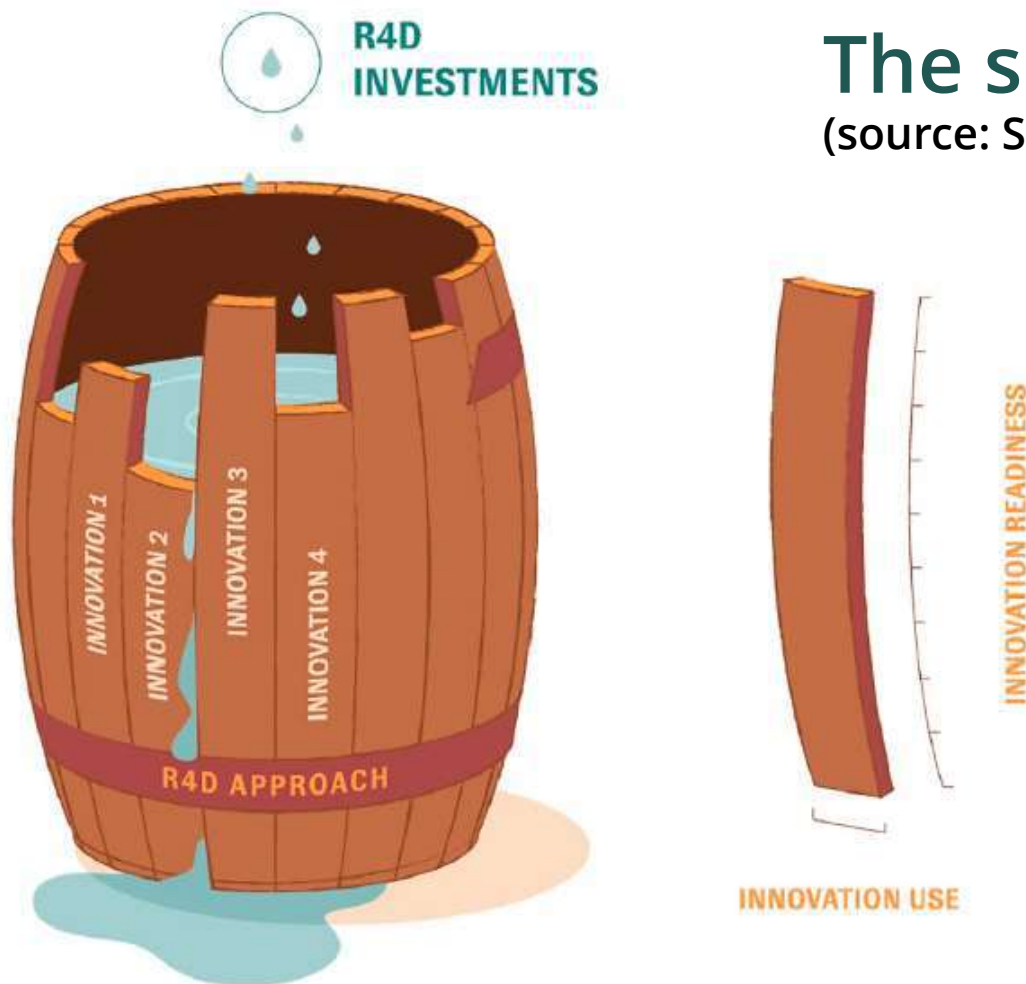
- Systemic innovation encompasses a set of innovations addressing different dimensions
- Innovations scale as part of **innovation packages**
 - Core & complementary innovations
 - Scaling of innovative solutions for FLW will require simultaneous upscaling of core & complementary innovations



SI dimension	Defintion in GA
Socio-cultural	Reorganisation of structures, attitudes, behaviours and cultures that lie at the basis of current food systems (habits, values, norms, aesthetic expectations, etc.). For example, a set of creative solutions that anticipate on why and how consumers buy food, to reach a change in habits.
Institutional	New and innovative policies, legal frameworks, and educational programs to support the transition to a near-zero FLW system.
Governance	New paradigms to achieve better decisions and find better ways to share limited resources, by strengthening cooperation across different sectors and among stakeholders. To resolve social conflicts in an era characterised by complexity and a holistic understanding of well-being.
Process	New and innovative processes that create less waste in the entire chain & focus on more efficient use of resources
Organisational	New or substantially improved management strategies, (cross)organisational structures or working practices (routines, departmentalization, training, capacity building) to improve performance and profitability. For example, waste management and auditing schemes.
Strategy	New ways to dynamically and constantly adapt business strategies to never ending internal and external changes. Applies to single organisations, collaborative business models and sectors.
Marketing	New or substantially improved promotion, pricing, placement, packaging or sales strategy to enhance the attractiveness of the product and increase market share for low-waste products. Applies to single organisations and sectors. For example, produce alignment to 'cosmetic standards' during pre-harvest, to initiate alternative marketing channels avoiding food loss
Product	New or substantially improved goods, wholly new product categories, or services into a business , with respect to its characteristics or intended use, compared to what was previously offered. For example, products based on waste materials.
Technological	New or substantially improved technology, including equipment, hardware and software and new

From 9 to 5 dimensions





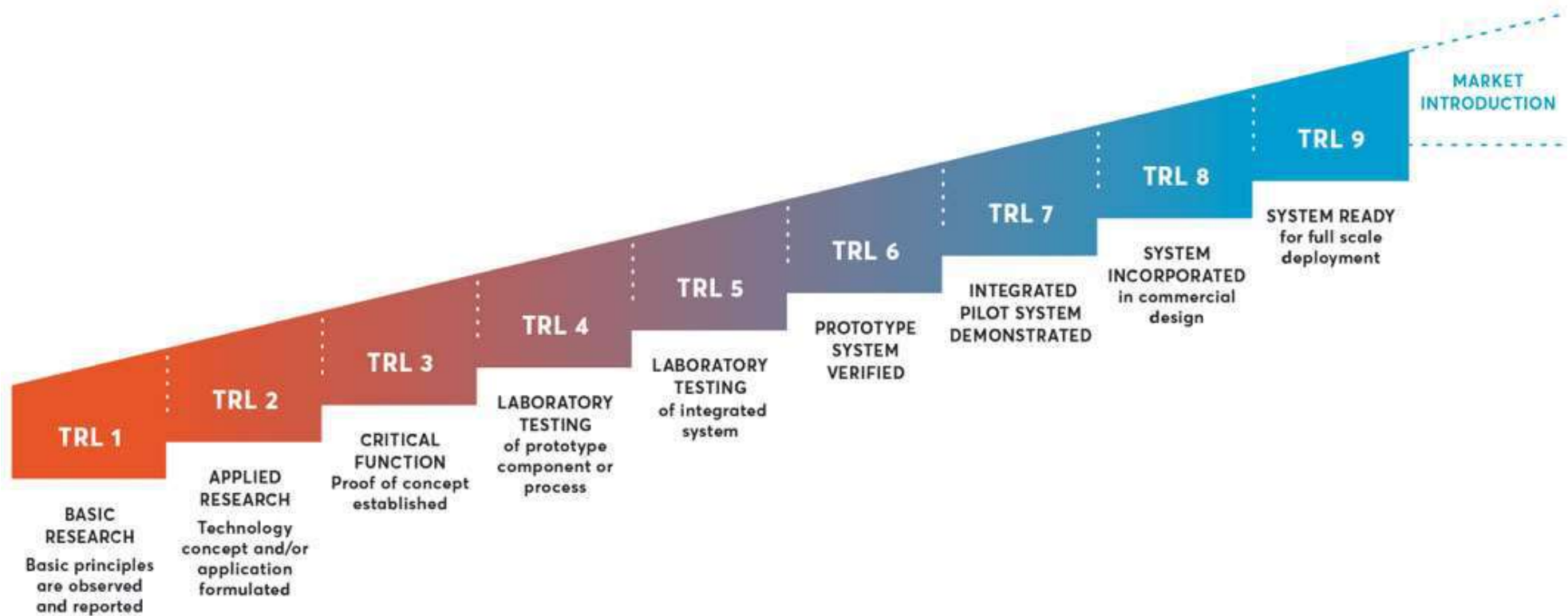
The scaling readiness barrel

(source: Sartas et al. 2020)

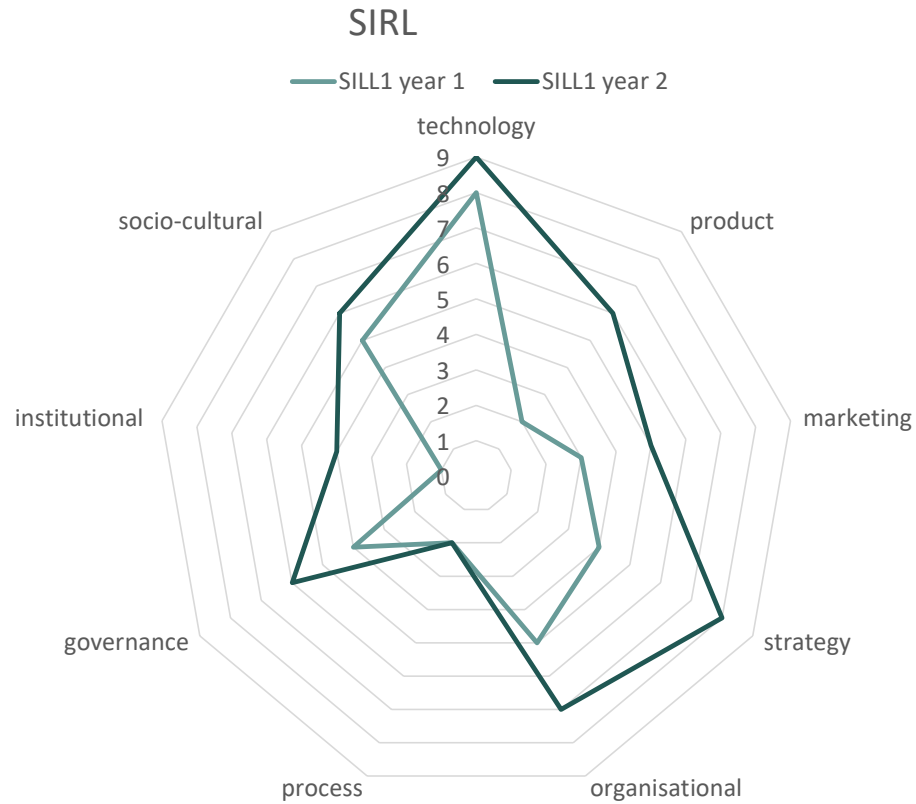
- Volume of barrel = capacity of **innovation package** to achieve impact at scale
- The scaling readiness of an innovation is a function of **innovation readiness** (length) and **innovation use** (width)
- scaling is limited by the **bottleneck innovation**

Fig. 1. Scaling Readiness Barrel to illustrate how innovation(s) with the lowest readiness limit an innovation package's capacity to achieve impact at scale.

Scaling readiness variable 1: Innovation readiness



Visual representation



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INVESTMENT SUPPORT

EIP –Innovation, EIP Cooperation
VLIF-Agrifood, VLIF-Innovative project support

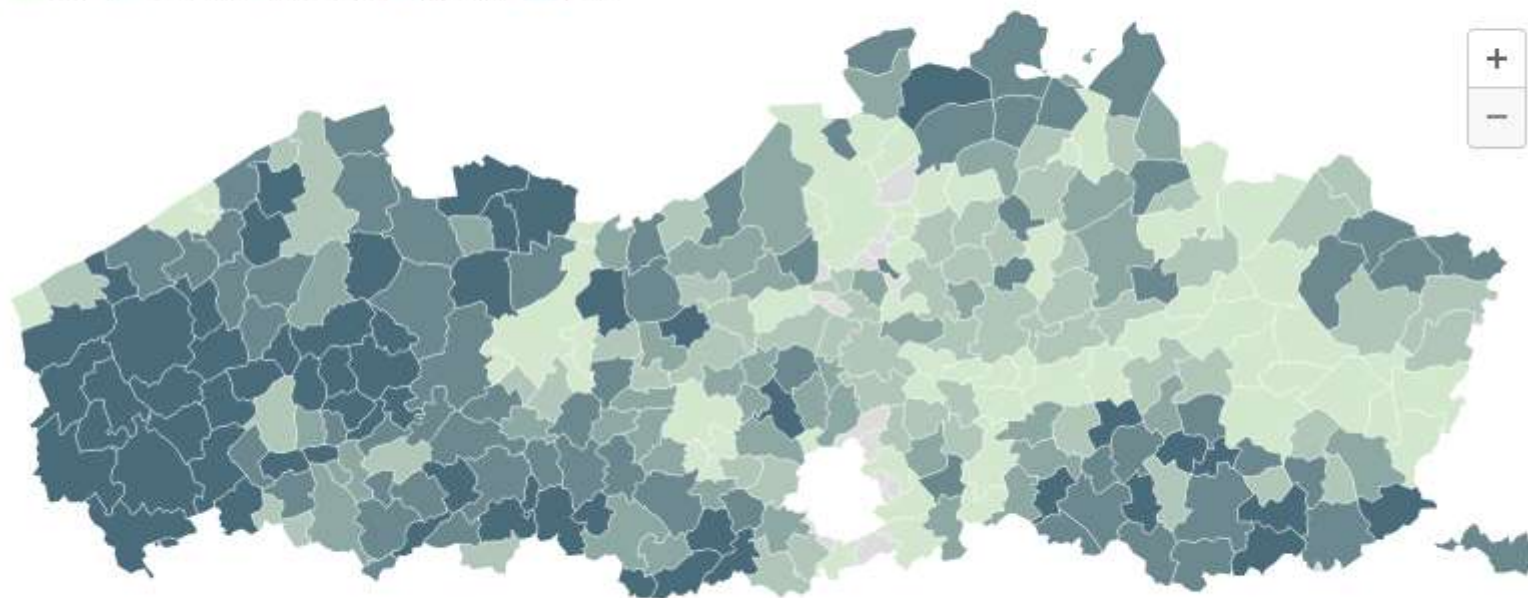


New measures will be in force within CAP 2023 - 2027.
Concrete details and modalities of this are not yet known.
We hope to launch these new measures in the first half of 2023.

Aandeel landbouwoppervlakte

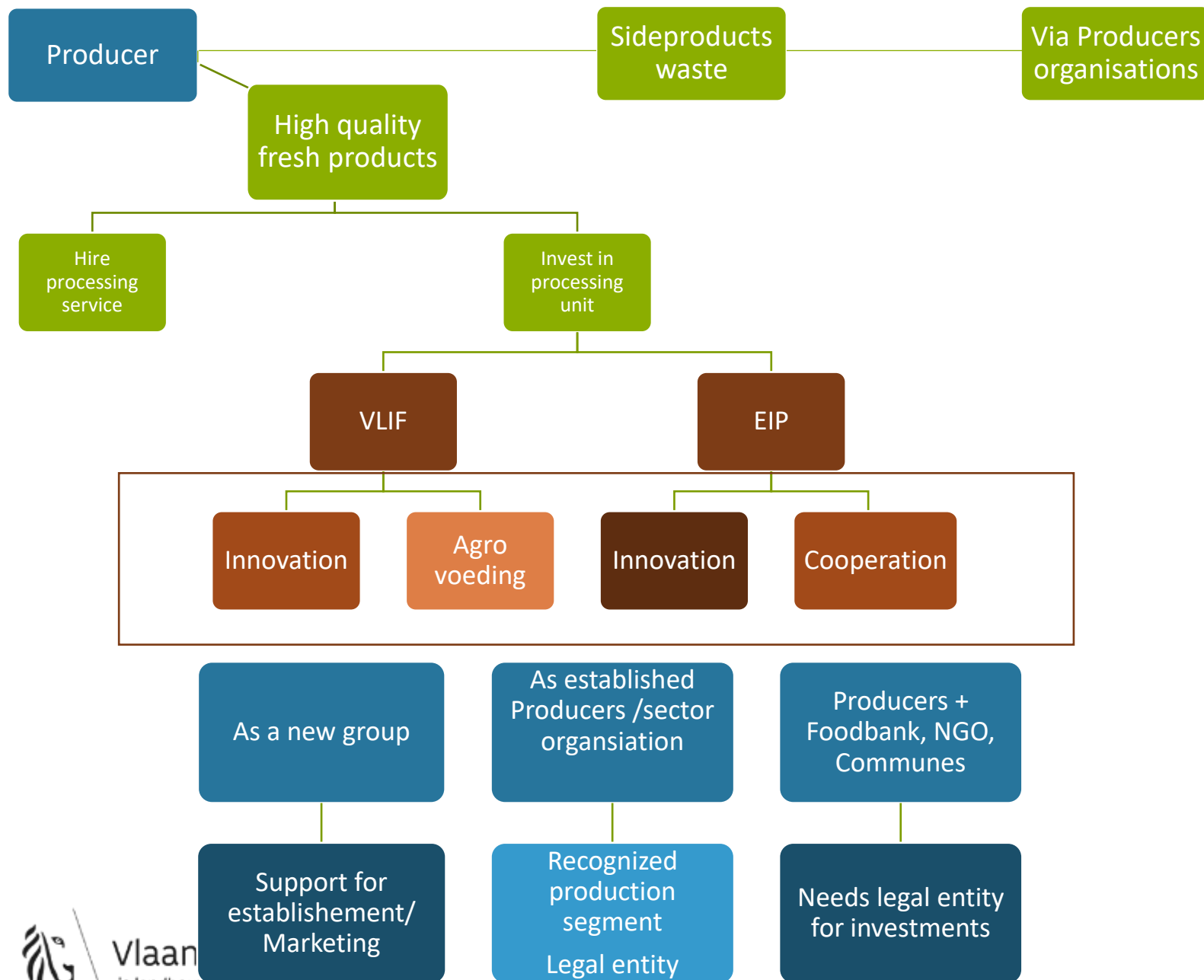
Gemeenten van Vlaams Gewest, 2021, in %

<25 25-<40 40-<50 50-<65 ≥65



Noot: om privacy-redenen zijn er geen cijfers beschikbaar voor gemeenten met slechts een beperkt aantal landbouwbedrijven. De oppervlakte landbouwpercelen wordt toegewezen aan de gemeente waar de hoofdzetel van het bedrijf gevestigd is.

Bron: Statbel, bewerking Departement Landbouw en Visserij





VLIF-Innovative project support

(CAP 2015-2022)

Contact person: Marleen Mertens

VLIF-innovation@lv.vlaanderen.be

02 552 79 39

<https://lv.vlaanderen.be/subsidies/vlif-steun/projectsteun-voor-innovaties-de-landbouw>



Target audience



► **Farmer**



► **Group of farmers**

→ Legal entity

→ Main activities: agricultural activities or processing or marketing

→ All associates are farmers



Innovative investments

- ▶ Investment types that do not appear on the exhaustive VLIF list of eligible investments and are innovative
- ▶ 'the first time in Flanders in a certain subsector of agriculture'

VLIF-lijst geldig voor de blokperiode 01/10/2018 - 17/12/2018						
STEUNGROEP	TYPE INVESTERING Project: code beschikbaar in een bepaald staltype en/of serre en/of loodis; andere: code beschikbaar buiten een project	Enkel (ver)-nieuw: N	BER > 800.000	TECHNISCHE CATEGORIE	BESCHRIJVING CODE	EXTRA INFO
30% - Windenergie en zonnepanelen	onroerend (andere)		ja	Overig (vaste constructie)	kleine- en middelgrote windturbine/windmolen	een windturbine met een vermogen kleiner of gelijk aan 300 kW. Windmolens mogen niet meer elektriciteit kunnen produceren dan wat op jaarbasis verbruikt wordt op het bedrijf.
30% - Windenergie en zonnepanelen	onroerend (andere)		ja	Energieproductie (vaste uitrusting)	windmolens	Let op: er is ook de code 'kleine- en middelgrote windturbine' met een hoger normbedrag. Windmolens mogen niet meer elektriciteit kunnen produceren dan wat op jaarbasis verbruikt wordt op het bedrijf.
30% - Windenergie en zonnepanelen	onroerend (andere)		ja	Energieproductie (vaste uitrusting)	zonnepanelen	
30% - Waterkwaliteit of kwantiteit	onroerend (andere)		noen	Wateropslag en -behandeling (vaste uitrusting)	aanleg van infiltratiebekken bij wateropslag (o.a. wadi)	
30% - Waterkwaliteit of kwantiteit	onroerend (project)	N	noen	Bouwen/richten bedrijfsgebouw of stal	bijkomende mestopslagcapaciteit (drijfmest)	Met investeringen in bijkomende mestopslag worden enkel die investeringen bedoeld die de mestopslagcapaciteit op bedrijfsniveau boven het wettelijk niveau tillen. Opgelet: deze bijkomende mestopslagcapaciteit wordt echter maar tot 12 maanden mestopslagcapaciteit op bedrijfsniveau gesubsidieerd door VLIF. Mestopslagcapaciteit die verder gaat dan 12 maanden op bedrijfsniveau mag onder geen enkele code vermeld worden bij de aanvraag. De roosters worden beschouwd als onderdeel van de mestkelder.

VLIF Agrifood (Agrivoeding)

(CAP 2015-2022)



Contact person: Veronique Nelis

VLIF-agrovoeding@lv.vlaanderen.be

02 552 79 39

<https://lv.vlaanderen.be/subsidies/vlif-steun/vlif-steun-aan-de-agrovoedingssector>



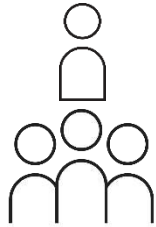
Investments

Investments in the processing and marketing of agricultural products:

- have one of the following **goals** :
 - a) **increasing** the quality, food safety or added value of agricultural products, and which relate to the first stage of the processing process;
 - b) **valorise residual flows** resulting from the processing of agricultural products ;
- **added value** for the **farmer** as a supplier of the agricultural products to be processed or sold.

-> make the agri-food chain more sustainable

Target audience



- ▶ There are three types of beneficiaries:
 1. processors belonging to certain NACE codes; (~ 1st processing)
 2. **groups of farmers** ;
 - Legal entity;
 - Main activities: agricultural activities or processing and marketing
 - At least half of the partners are farmers and more than half of the voting rights are in their hands
 3. a combination of these beneficiaries.

Europees Partnerschap voor Innovatie (EIP)



Contact Persons : Els Lapage & Peter Coucke

operationelegroepen@lv.vlaanderen.be

<https://lv.vlaanderen.be/voorlichting-info/voorlichting/europees-partnerschap-voor-innovatie-eip-operationele-groepen>

02 552 79 39



Target audience



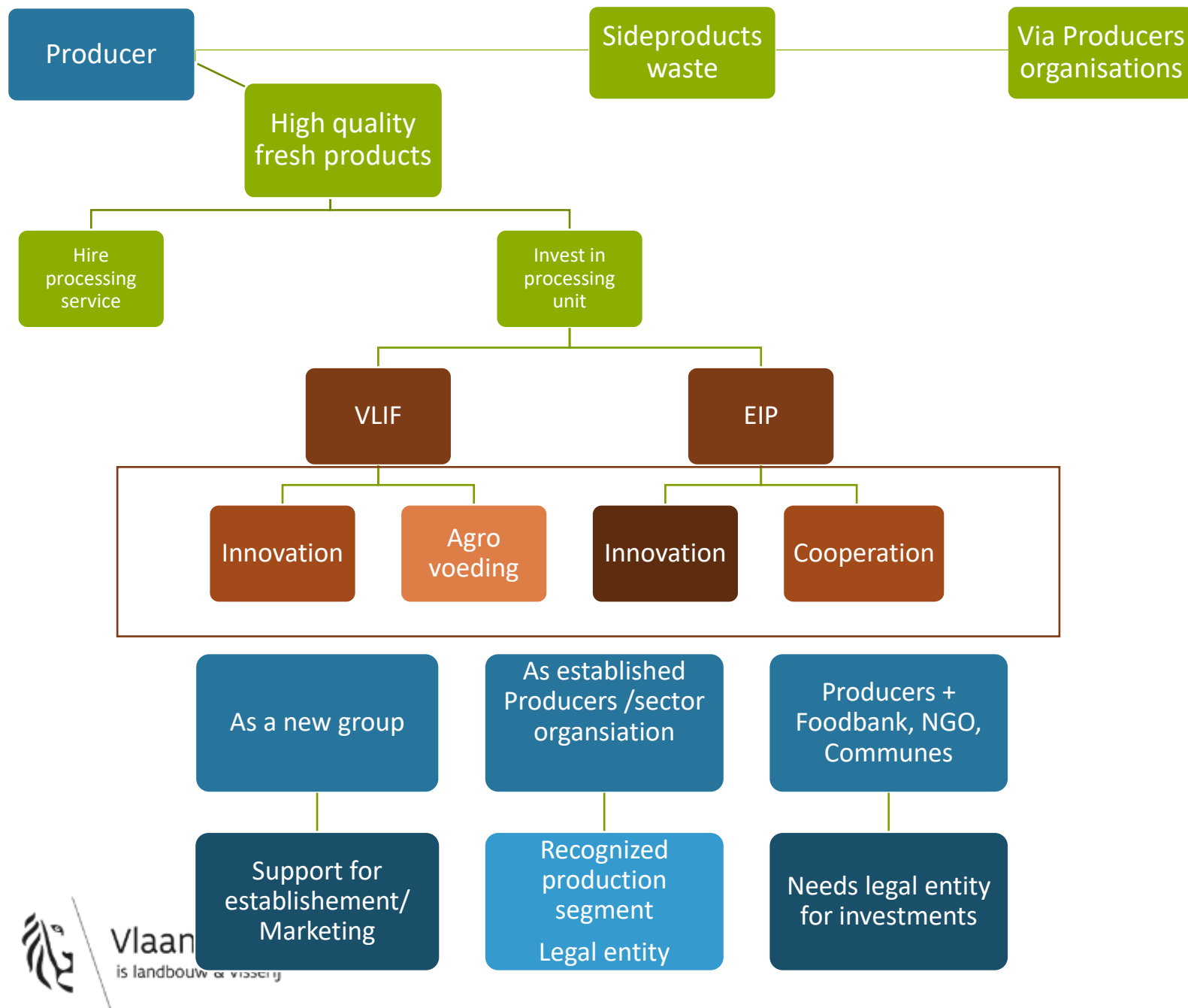
- ▶ Supporting **pioneer farmers** who want to future-proof their business through innovation and collaboration.



- ▶ Beneficiaries are partnerships of **at least one active** farmer and one or more participants such as actors in the agri-food chain, SMEs, innovation support services, advisors, knowledge centres, producer organisations, branch organizations and NGOs.

Two topics

- ▶ **EIP-Innovation:** support for a partnership for interactive knowledge creation/knowledge exchange regarding an innovative (technological) product, service, process, technique in collaboration with experts (knowledge centres, advisors,...)
- ▶ **EIP Cooperation (Samenwerking):** support for the preparation and implementation of a new thematic cooperation between farmers and other social actors on new marketing methods or organizational structures.



Fox project

Luc Vanoirbeek, Algemeen Secretaris VBT

13 December 22
Irish college



BELORTA
redefining fruit & vegetables



VBT-PO's omzet 2021 (€1.000)

€ 1.118.995

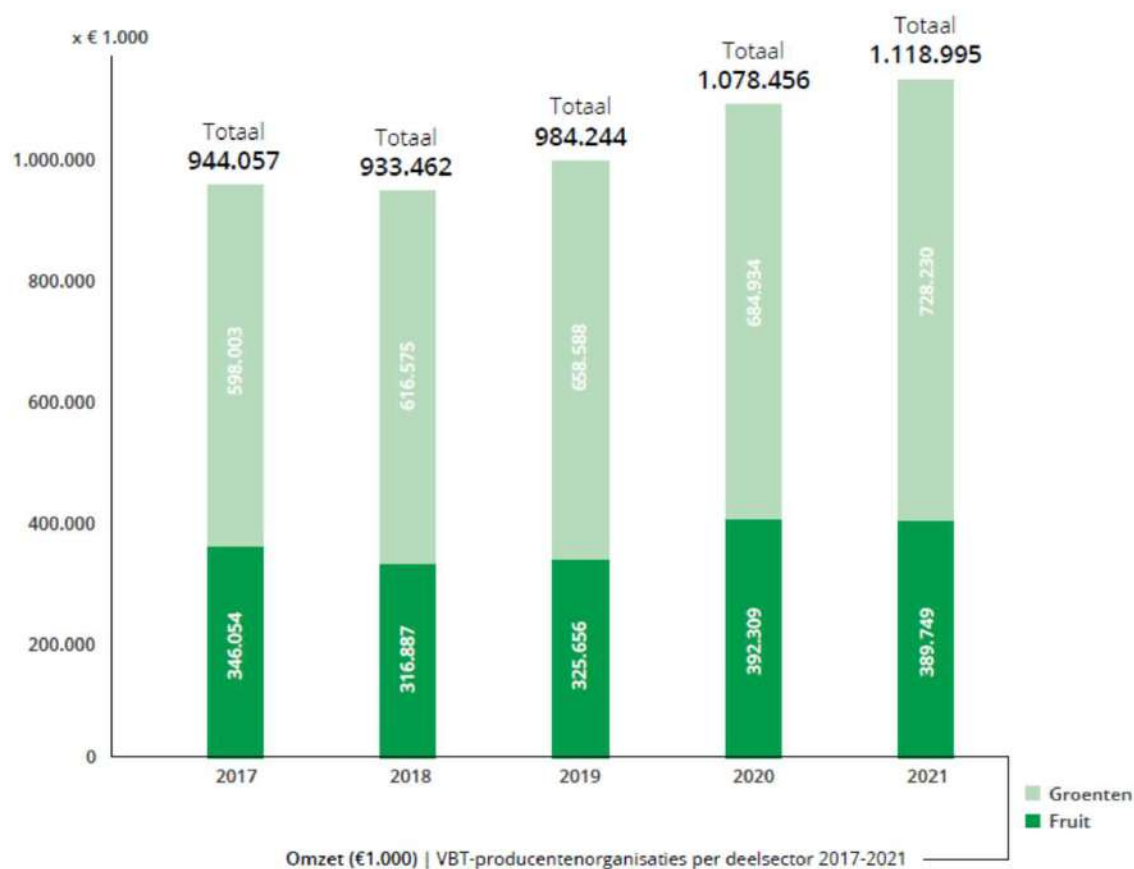
€ 728.230

€ 389.749

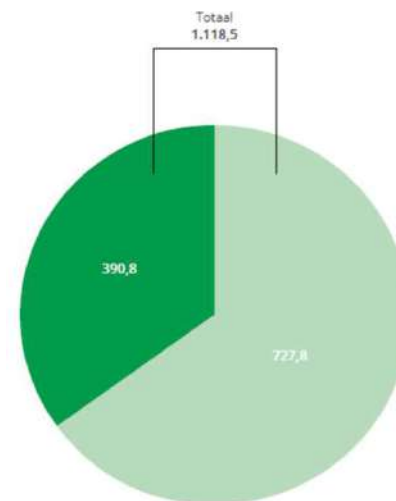
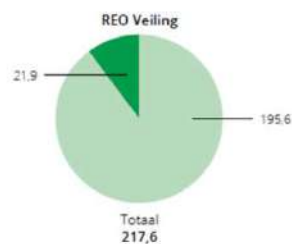
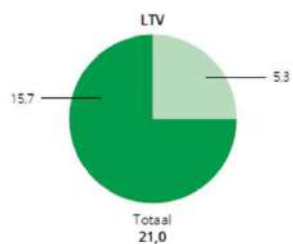
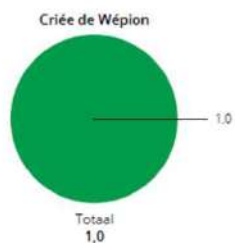
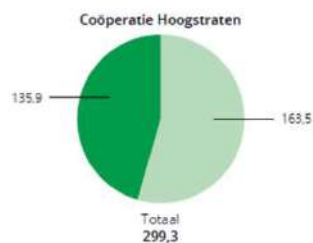
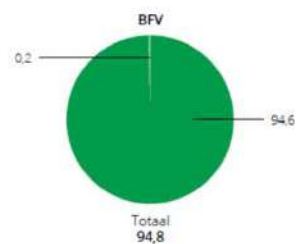
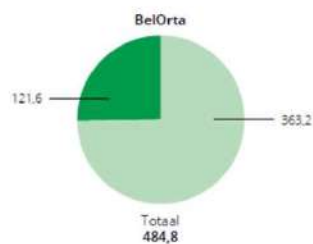


Ingro: € 108.260

VBT-PO's omzet 2017-2021 (€1.000)



VBT-PO's omzet per productgroep 2021 (€miljoen)



Omzet (miljoen €) | VBT-producentenorganisaties per deelsector 2021

■ Groenten
■ Fruit



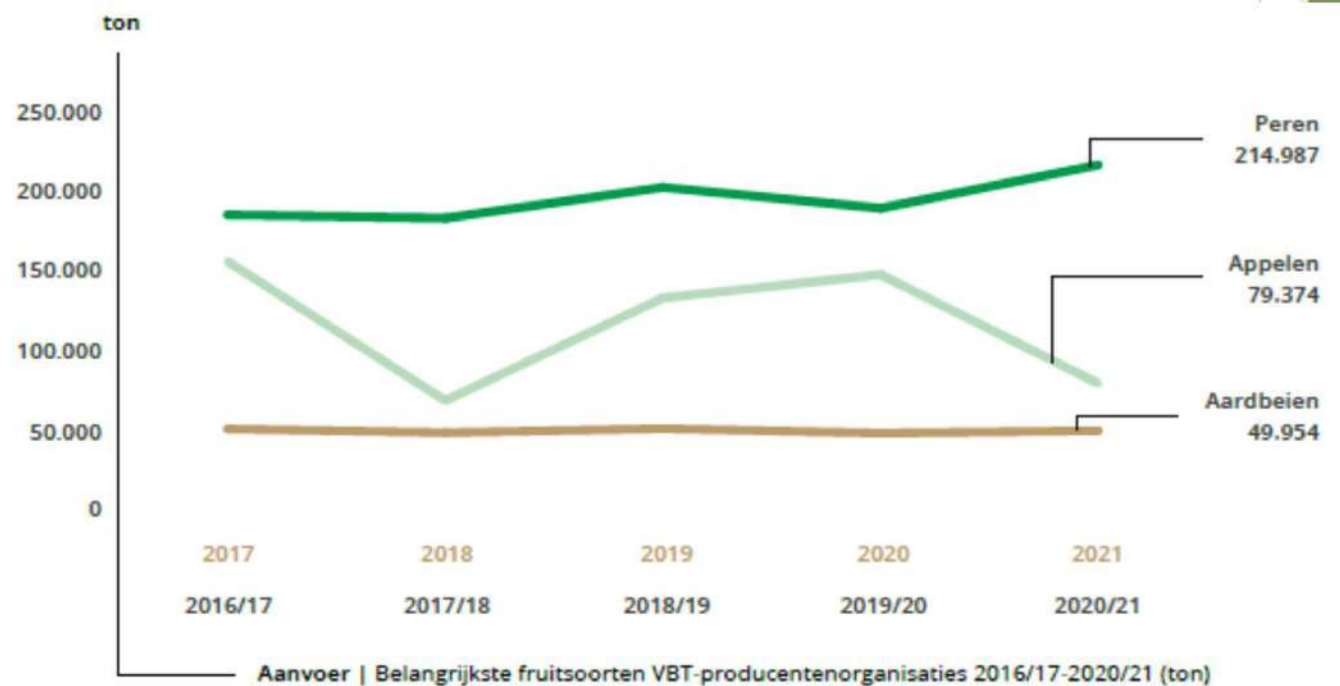
VBT-PO's top-10 producten aanvoer, prijs en omzet 2021

										Aanvoer
49.954 ton	95.990 ton	7.168 ton	185.704 1.000 st	60.401 1.000 st	48.562 ton	212.937 ton	55.903 ton	224.699 ton	38.154 ton	
3,883 €/kg	0,433 €/kg	2,307 €/kg	0,295 €/st	0,390 €/st	1,195 €/kg	0,563 €/kg	0,856 €/kg	0,872 €/kg	1,230 €/kg	Prijs
193.972 x € 1.000	41.563 x € 1.000	16.536 x € 1.000	54.783 x € 1.000	23.556 x € 1.000	58.032 x € 1.000	119.884 x € 1.000	47.853 x € 1.000	195.937 x € 1.000	46.929 x € 1.000	Omzet
Totaal top 10 producten										€ 799.045.872

Aanvoer, prijs en omzet | Belangrijkste producten VBT-producentenorganisaties 2020-2021



VBT-PO's fruit aanvoer 2017-2021 (ton)



VBT-PO's fruit omzet 2017-2021 (€1.000)

