

#### The FAIRCHAIN Project

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Paving the Way

to Sustainable and Innovative Intermediate Food Value Chains:

Learning from FAIRCHAIN

**EFFoST Special session** 

November 14th, 2024 – Bruges, Belgium



## Content of the session

8:30 – 8:45: Introduction to the FAIRCHAIN project

by Geneviève Gésan-Guiziou (INRAE)

8:45 – 9:15: Case studies and FAIRCHAIN innovations

by Anne Verniquet (dss+)
Geneviève Gésan-Guiziou (INRAE)
Karin Östergren (RISE)
Imca Sampers (UGENT)
Andreas Papadakis (Synelixis)
Simon Berner (Joanneum)

9:15 – 9:30: Lessons learnt from the co-creation processes in FAIRCHAIN

by Bärbel Hüsing (Fraunhofer-ISI)

9:30 – 9:45 : The FAIRCHAIN assessment framework for the sustainability of intermediate value chains (IVCs)

by Karin Östergren (RISE) Anne Verniquet (dss+)

9:45 – 10:00: Policy Aspects related to the replicability of Intermediate Value Chains

by Christophe Cotillon (ACTIA)



## Networking Forum → This afternoon!



Free event!
Registration required here

## NETWORKING FORUM

**1**3H30 - 16H00

BBCC, room 6

- ▶ Meet the team.
- Uncover the ways to develop Intermediate Food Value Chains.
- Join us for lunch and enjoy a free tasting of food and drinks produced through FAIRCHAIN innovations.





## **FAIRCHAIN Project**



Title	Innovative technological, organisational and social solutions for FAIRer dairy and fruit and vegetable value CHAINs
Topic H2020 RUR-06-2020	Innovative agri-food value chains: boosting sustainability-oriented competitiveness  Call under the programme SC 2 "Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy"  → Innovation Action

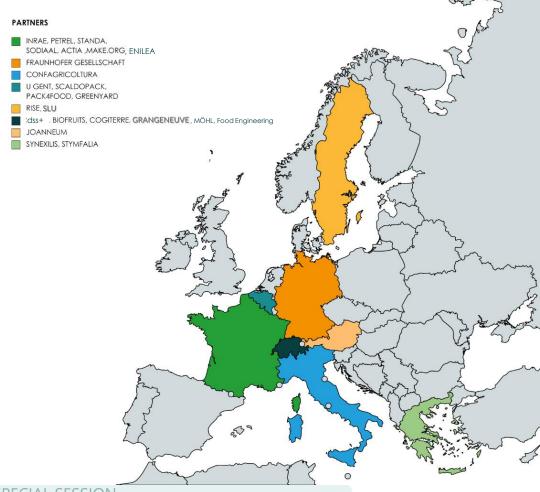


## Consortium

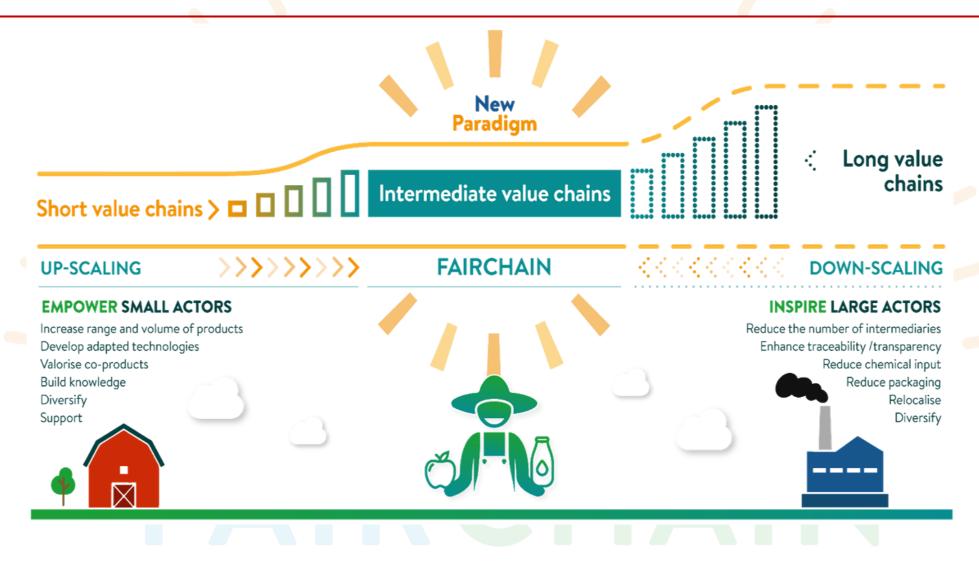
INRAE, RISE, FH JOANNEUM, Fraunhofer-Gesellschaft-ISI, Research (8) Universiteit Gent, GRANGENEUVE, **SLU, ENILEA** Scaldopack, Petrel, Laboratoires **SMEs (10)** Standa, Dss+, Biofruits, Cogiterre, Synexilis, Stymfalia, Möhl, Food **Engineering** (end-users, processors and associated farmers, equipment providers, distributor) Industry (3) Pack4Food, Greenyard, Sodiaal Confagricoltura, ACTIA, ISEKI-Food, **NGOs (4)** Make.org foundation

### A multidisciplinary partnership

Technology and agri-food expertises
Environment and sustainability assessment
Business development and supply chain management,
Co-creation, Social & Economics
Logistics, Marketing, Sensory and consumer science



Goal: Enable small and mid-sized farmers and food producers to scale up and expand production of nutritious food through competitive intermediate value chains at the regional level



## What is an Intermediate Food Value Chain (IVC)?

Intermediate value chains (IVCs) combine the strengths of both short and long chains while minimising their weaknesses

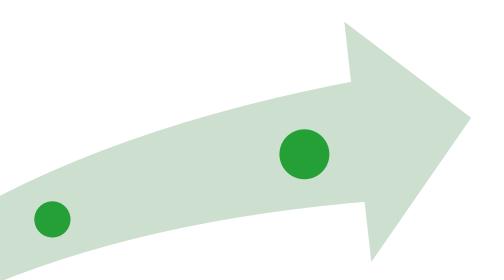
Intermediate food value chains are characterized by:

- fewer intermediaries than in long VCs, but a minimum of one intermediary;
- the **cooperation** of mainly **small and medium-sized actors** from farmers, to processors, distributors, retailers, supporting organizations, other enterprises and consumers along the food value chain in a **network or strategic alliance**;
- win-win situations for all actors involved, through collaboration, by fair distribution of value created among them, and the implementation of technological, organizational and social innovations in the food value chain;

-commitments of actors to **common values**, **collective governance** and **creation of trusted and transparent relationships**.

Together IVCs supply **high-quality regional food products** to consumers beyond the local market **in greater quantities** with facilitated access for consumers at **regional to interregional level**.

## **Approach**



Identification of issues and challenges that must be specifically addressed to support the transition to IVC



14/11/2024

## **Approach**

Lack of time to carry out innovation activities

Difficulties of getting access to finance for innovation activities

> Lack of business and management skills

> > Lack of knwledge of legal frameworks

Fear of losing customers

Cultural and language barriers

Identification of issues and challenges that must be specifically addressed to support the transition to IVC

Better use of by-products

**Improve** trustworthly traceability and information sharing

**Bring high** technology usage to small size actors

• • •

**Improve** packaging and distribution of fresh food liquids

Build networking & better innovation awareness

**Definition of Intermediate Value** chains



## **Approach**



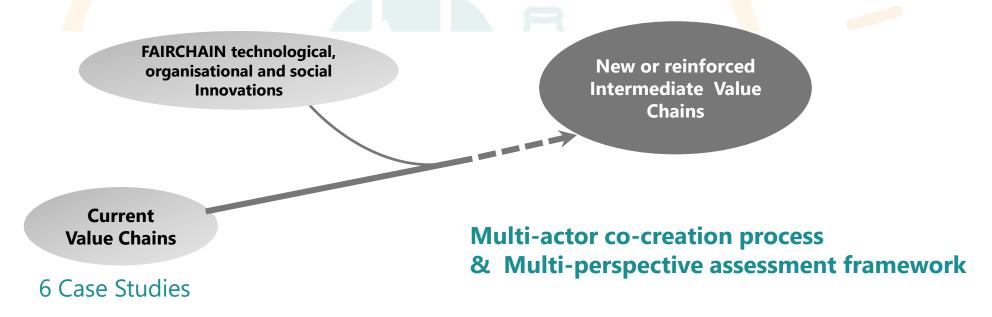
Identification of innovations which offer solutions to tackle some of these issues

Identification of issues and challenges that must be specifically addressed to support the transition to IVC



## **Objective**

Test, pilot and demonstrate **technological**, **organisational**, **social innovations** that have the potential to support intermediate value chains and address some of their issues



## Case studies and innovations at the start of FAIRCHAIN



#### **CS-Aut**

Food Innovation Incubator for scaling-up short food supply chains

**Food Innovation Incubator** 



#### **CS-Gre**

Traceability and reliable information sharing in local dairy production

**Blockchain** 

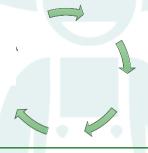


#### CS-Swi

Fruit co-products
valorisation to
develop circular
business concepts

#### **Alternative cleaning agent**

Sharing of processing equipment and/or infrastructure



#### CS-Bel

Innovative packaging machine for small and midsized actors



Sharing of processing equipment and/or infrastructure

Funding system based on philanthropic income streams



#### CS-Fra

Production and distribution of innovative dairy drinks based on co-products of cheese manufacture

**Fermented whey-based drink** 

Distribution with reduction of packaging consumption



#### **CS**-Swe

Establishing a wild berry business to boost local economy and social cohesion in Sweden northern regions

ICT tool for berry picking

Technological Organisational Social Innovations

## Main outputs

Deliver a **set of innovations** at technology readiness level **(TRL) 7**, fostering the emergence of competitive intermediate value chains

16

- 11 (5) technological innovations
- 3 (2) organisational innovations
- 2 (1) social innovations

## Main outputs

Deliver a **set of innovations** at technology readiness level **(TRL) 7**, fostering the emergence of competitive intermediate value chains

16

Develop **business models**associated to these
innovations and carry out
environmental, social and
economic impact assessment

> 32

- 11 (5) technological innovations
- 3 (2) organisational innovations
- 2 (1) social innovations

- 7 regional business concepts
- > 25 value-added Business Models

# And more to come

## Main outputs

Deliver a **set of innovations** at technology readiness level **(TRL) 7**, fostering the emergence of competitive intermediate value chains

Develop **business models**associated to these
innovations and carry out
environmental, social and
economic impact assessment

Formulate recommendations, create tools and guidance documents, promote the results to ensure uptake and replicability of value chains developed within FAIRCHAIN

**16** 

> 32

- 11 (5) technological innovations 3 (2) organisational innovations
- 2 (1) social innovations

- 7 regional business concepts
- > 25 value-added Business Models

3 tools for guidance
Policy recommendations
42 public videos on Youtube
including webinars, 3 online
courses, 3 online student
competitions, tutorials, ...
7 scientific publications
> 40 non scientific publications
> 50 Practice Abstracts ...

# 7 Scientific Publications



#### Cleaner Environmental Systems

Volume 11, December 2023, 100141



Life cycle assessment of a small-scale and low-input organic apple value chain including fresh fruit, juice and applesauce

Samuel Le Féon a, Thierry Benezech c, Gwenola Yannou-Le Bris a, Joël Aubin b, Imca Sampers d,

Damien Herreman c, Caroline Pénicaud A ⋈

https://doi.org/10.1016/j.cesys.2023.100141

## ☐ Innovative Food Supply Chains



Case-Studies by co-creation - learn from real life examples (6h)

Introduction to Intermediate Food Value Chains (2h)

From Short to Intermediate Food Value Chains (4h)

3 online courses + 3 online student competitions

More sustainable, resilient, and competitive food systems through the development of intermediate food value chains

PRACTICE ABSTRACT No: 5

Blockchain: a solution for Trustworthy information sharing for food traceability.

Authors

Andreas Papadakis,
Dimitris Polydoropoulos

50+ Practice abstracts

Länets bortglömda förmögenhet

Publicerad 14 juli 2021 - Uppdaterad 08 november 2022

VK = MENY D SÖK



Ø Jan Johansson
I ängte nya livemerlelestrateni har som mål att tinfaldina den ärlina männden nlockarle här.

Västerbotten har sedan i juni månad för första gången en livsmedelsstrategi. Den ska säkra livsmedelsförsörjningen och stimulera matproduktionen inom länet. Strategin lyfter upp skogsbär som en outnyttjad rikedom med stor utvecklingspotential.

FAIRCHAIN

40+

Non-Scientific Publications

Home | ISEKI E-learning

Practice Abstract Inventory | Sustainable Food System Innovation Platform

## Cooperation with other projects



## Any questions?

































































