



FAIRCHAIN Project Overview

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Project ID card

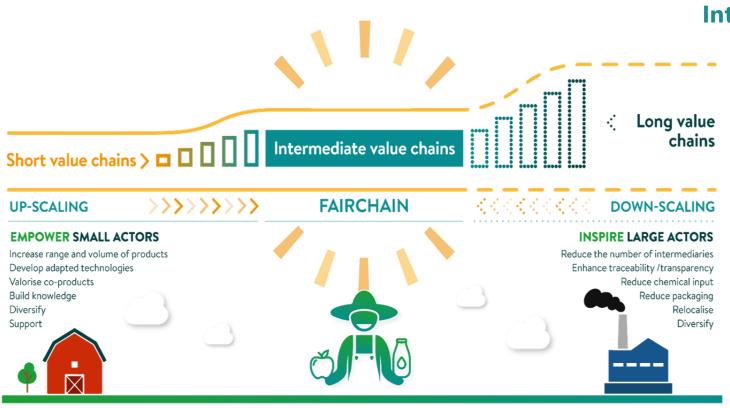


Acronym	FAIRCHAIN
Title	Innovative technological, organisational and social solutions for FAIRer dairy and fruit and vegetable value CHAINs
Topic RUR-06-2020	Innovative agri-food value chains: boosting sustainability-oriented competitiveness under the programme SC 2 "Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy" → Innovation Action
Budget & funding	Overall budget: 8 036 566 € EU contribution: 6 996 636 €
Duration	1 November 2020 – 31 October 2024 (48 months)
Consortium	A total of 20 partners from 8 countries

Context

- Dominant agri-food systems are based on long supply chains
 - Mass production, lower prices, economies of scale, resources efficiency ...
 - Globalised, concentration of profit, high-tech processing
 → economic, social, environmental issues
- Short food value chains involve a limited number of actors (no more than one intermediary)
 - Greater social cohesion, fairer price for farmers, creation of jobs at local level, ...
 - Insufficient production volumes, higher prices, limited distribution, difficulties on treating and valorizing small volumes of co-products, effluents ...
- → **Mismatch** between **demand** of the citizen for local, affordable and nutritious food produced in a fair and sustainable way and **supply** of such food by actors of the food value chains

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



Intermediate value chain combine elements of both, short and long supply chains

They are characterized by:

- . Mid-scale food chains, **cooperation of small** and midsized actors
- . trusted and transparent relationships and an equal distribution of value created among the involved actors implementation of common values through collective organisation.

They make it possible to supply **fresh**, **sustainable and high-quality food products** to consumers beyond the local market **in greater quantities** - often on a regional level.

Objectives

Enable small and mid-size farmers and food producers to scale up and expand production of nutritious food through **competitive intermediate value chains** at the local and regional level.

SPECIFIC OBJECTIVES



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

Deliver a **set of innovations** at technology readiness level (TRL) 7.

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

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

FAIRCHAIN methodology

- Multi-actor approach, with a consortium including scientific and private partners, and involving all relevant stakeholders along the case-study specific value chains in the different Case Studies
- All actors will actively participate in the **co-creation and co-innovation process**, and will provide knowledge, data and experience throughout the entire duration of the project.

1-Conceptual and operational framework definition and implementation

2-Development and adaptation of innovations for the case studies

3-Implementation of innovations in real conditions and business model definition

4-Deriving recommendations and promoting results









FAIRCHAIN methodology





 STEP #1: CONCEPTUAL AND OPERATIONAL FRAMEWORK DEFINITION AND IMPLEMENTATION

in 5 phases:

- A mapping of innovations
- The implementation of a multi-actor co-creation process with each Case Study
- The definition of Case study activities
- A multi-perspective analysis of the Case studies in terms of technological, organisational, and social innovation potential, consumer perception and sustainability in regional/national contexts
- The multi-stakeholder validation during and at the end of the project through the dissemination of opensource results
- STEP #2: DEVELOPMENT AND ADAPTATION OF INNOVATIONS FOR THE CASE STUDIES

FAIRCHAIN methodology



• STEP #3: IMPLEMENTATION OF INNOVATIONS IN REAL CONDITIONS AND BUSINESS MODEL DEFINITION

The implementation will take into account:

- The pre-assessment of options performed with data collected at initial stage following harmonised recommendations
- Consumers'/citizens' preferences, as major active actors, driving the development of innovative agri-food value chains.
- An iterative multi-perspective analysis of each Case study in terms of technological, organisational, and social innovation potential, consumer perceptions and sustainability in regional/national contexts
- Eco-innovative Business Models will be developed thanks to a Business Model Generation (BMG)



STEP#4: DERIVING RECOMMENDATIONS AND PROMOTING RESULTS

Technological innovations



- Emerging postharvested technologies adapted to co/by-products
 - Innovative beverages based on whey
 - Cleaning agent from fermentation of unfit for consumption co-products from food and vegetable processing
 - Co-product (pits) valorisation via pyrolysis
- Information & Communication Technologies (ICTs)
 - **GPS tool** to effectively localise wild berries
 - Application using blockchain technology to select, retrieve and interpret measurable data from operational processes
- Flexible filling machine using green / sustainable packaging materials, designed to fulfil hygienic requirements and able to be used for short up to long production runs

Organisational/social innovations

- Sharing of processing equipment and/or infrastruture
- Logistical models which reduce the consumption of packaging (returnable packaging)
- Innovative funding systems based on philanthropic income streams
- Food innovation incubator for co-creation of solutions by different actors in a regional value chains

Case Studies

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Case study	Description title	Country	Sector	Partners
CS- <u>Şwi</u>	Generation of new value propositions for SMEs & regional stakeholders through improved co-products valorisation	Switzerland	Fruits & Vegetables	Fruits Cogiterre sofies UNIVERSITEIT GENT
Cs-Fra	Production and distribution of innovative dairy drinks based on co-products of the cheese manufacture (mainly whey)	France	Dairy Fruits & vegetables	SODIAL PETRIJ
CS- <u>Swe</u>	Establishing a wild berry business to boost local economy and social cohesion in Sweeden Northern regions	Sweeden	Fruits & Vegetables	RI. SE
CS-Bel	Innovative packaging machine for small and mid-sized actors	Belgium	Dairy Fruits & <u>Vegetables</u>	UNIVERSITEIT Scald pack Pack4Food
CS- <u>Gre</u>	Traceability and reliable information sharing in local dairy production	Greece	Dairy	Synelixis
CS- Aut	Food innovation incubator for scaling-up short food supply chain	Austria	Fruits & <u>Vegetables</u> Dairy	FH JOANNEUM Fraunhofer ISI

Consortium

Research

INRAE, RISE, FH JOANNEUM, Fraunhofer-Gesellschaft, Universiteit Gent

SMEs

Scaldopack, Petrel, Laboratoires Standa, Sofies SA, Biofruits SA, Cogiterre SARL, Synexilis, Stymfalia

Industry

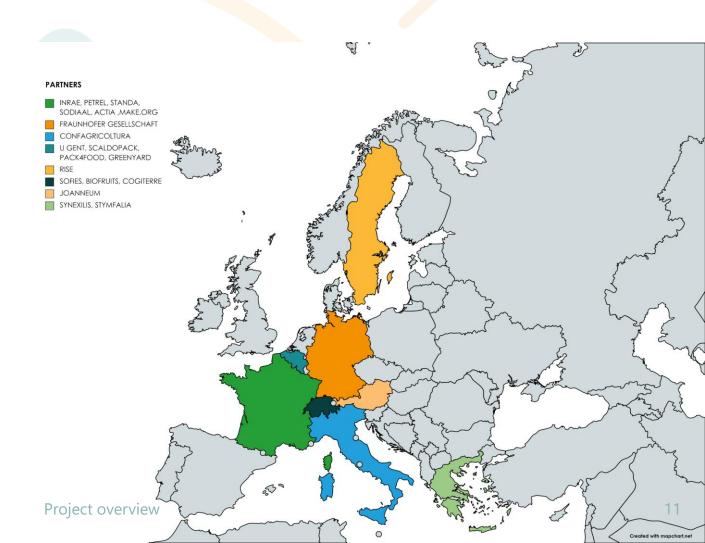
Pack4Food, Greenyard, Sodiaal

NGOs

Confagricoltura, ISEKI-Food, ACTIA, Make.org

A multidisciplinary partnership including 20 organisations in eight countries

(process engineering, environmental science, supply chain management, logistics, economy, marketing, social science, sensory and consumer science, information and communication technology, technology transfer...)



02/06/2021













































Linked third parties







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