

Case Study in France (CS-Fra): Production and distribution of innovative dairy drinks based on co-products of the cheese manufacture

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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



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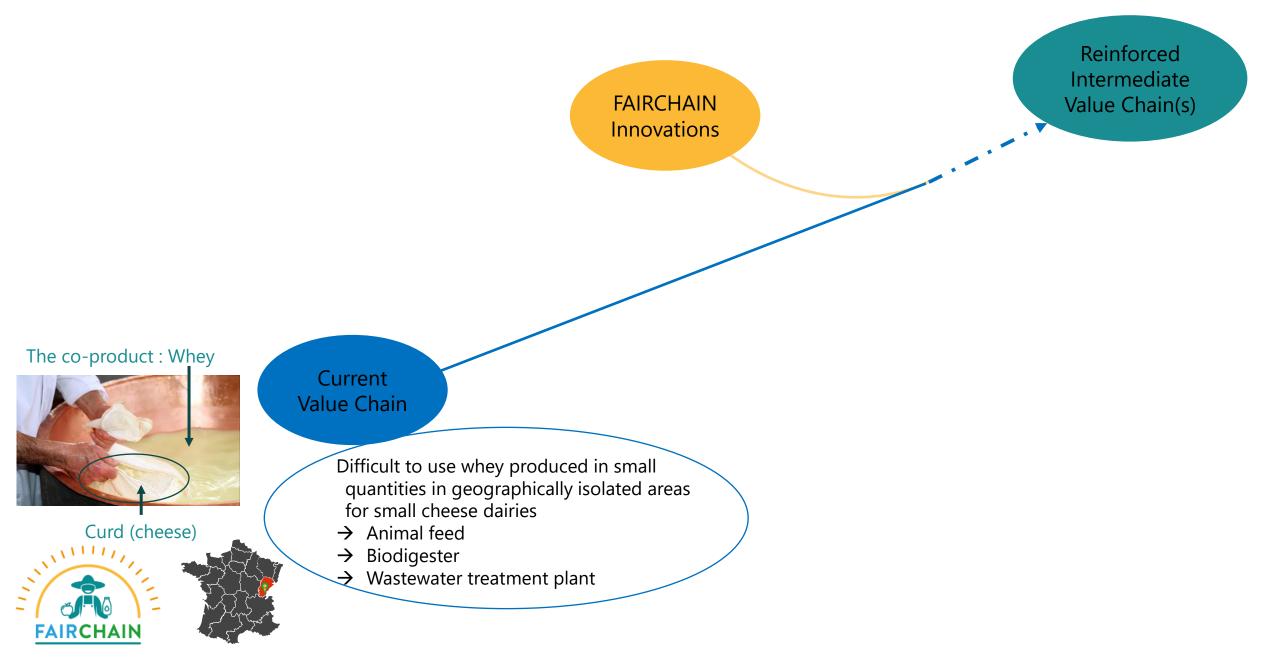
Case Study in France (CS-Fra)

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

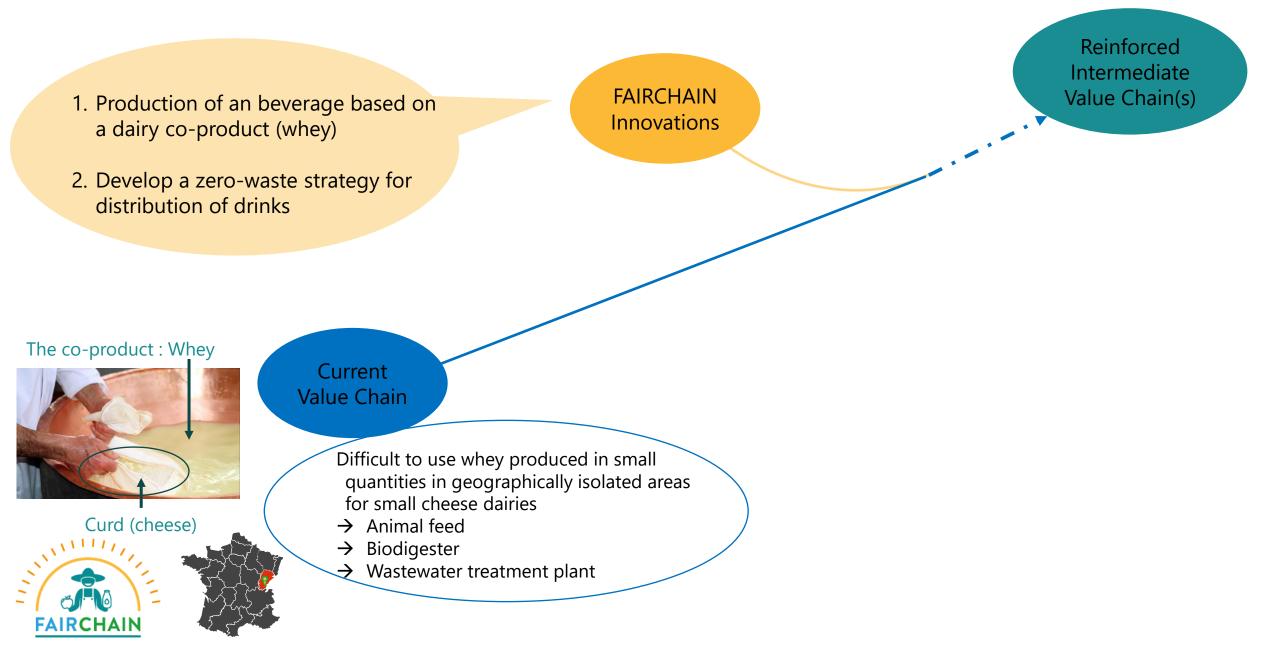
Geneviève Gésan-Guiziou (INRAE)

FAIRCHAIN

Contribution to Intermediate Value Chain – Assumptions & Innovations



Contribution to Intermediate Value Chain – Assumptions & Innovations



Contribution to Intermediate Value Chain – Assumptions & Innovations

- 1. Production of an beverage based on a dairy co-product (whey)
- 2. Develop a zero-waste strategy for distribution of drinks

FAIRCHAIN Innovations Reinforced Intermediate Value Chain(s)

The co-product : Whey



Curd (cheese)

Current Value Chain

- Difficult to use whey produced in small quantities in geographically isolated areas for small cheese dairies
- \rightarrow Animal feed
- → Biodigester
- \rightarrow Wastewater treatment plant

Key Intermediate Value Chain (IVC) features expected !

Reinforcement of an existing IVC :



- 1. Increase added value per unit of cheese sold (Better use of co-products)
- 2. Develop new sustainable circular and regional business models
- 3. Participate in territorial development of zero-waste strategies
- Increase (economic) resilience of farmers, processors, and regional entrepreneurs

Results and impacts

3

Innovations





 Development and production of innovative flavored fermented whey-based beverages (nutritional properties; ≠ beverages sparking or not; concepts; validated by consumers) Potential expansion to other regions using region-specific whey and juices

- Implementation of returnable bottle distribution mode at regional level
- **Development of a software tool** SEAMPL (Simplified Environmental Assessment of Packaging Loops) (user-friendly, simplified and robust tool)

Results and impacts





Development and production of innovative flavored fermented whey-based beverages (nutritional properties; ≠ beverages sparking or not; concepts; validated by consumers) Potential expansion to other regions using region-specific whey and juices

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Business models

Innovations

3

Creation of a new multi-actor regional business concept for the production and distribution of innovation fermented whey-based beverages (new strategic alliances). Potential inspiration for large dairies to develop an alternative, more regional use of whey

• Creation of added value and new BMs for the CS-Fra partners (3) and actors involved (2)

Results and impacts

3

6

Innovations

usiness models





Room 6 at 1:30 pm

Development and production of innovative flavored fermented whey-based beverages (nutritional properties; ≠ beverages sparking or not; concepts; validated by consumers) Potential expansion to other regions using region-specific whey and juices

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• **Creation** of added value and **new BMs** for the CS-Fra partners (3) and actors involved (2)

Environmental dimension

No significant modification of the environmental impacts of the value chain (impacts due to production of milk at farm)

Social dimension Job reinforcement and creation Nutrition / health

Economic dimension

New revenues / incomes Less vulnerable value chain Improve local economy

Thank you for your attention!

