CATALYSE

Catalysing scientific innovation into food safety action

Bridging Science and Practice: Insights from the CATALYSE Pilot Chapters on Dairy and Alternative Products

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Co-funded by the European Union

Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them. Project number 101136754.

Project funded by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

UK Research and Innovation

This project has received funding from UK Research and Innovation (UKRI)

Introduction: Food Safety

Food safety is a critical aspect to **ensure** that the food we consume is **free** from harmful **contaminants**.

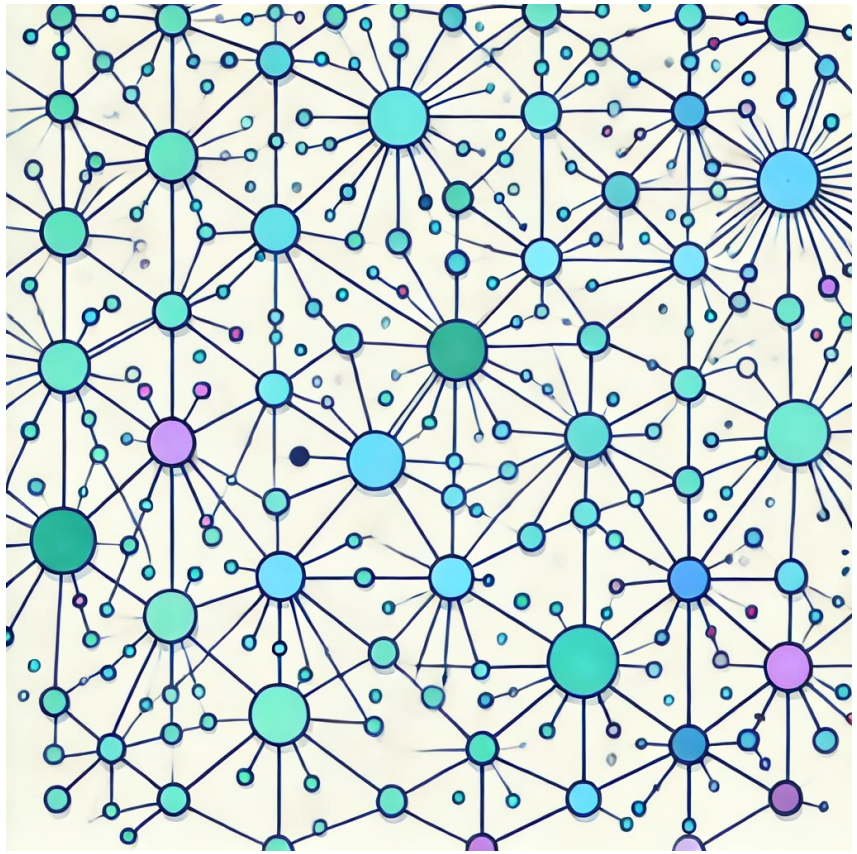
According to the WHO, contaminated food causes **600M cases of foodborne diseases** and **420K deaths** every year, resulting in **33M healthy life years lost**, and this is possibly an underestimation.

A 2019 World Bank report states US$110B is **lost** each year **in productivity** and **medical costs** due to unsafe food in low- and middle-income countries.

Contaminated product recalls affect benefits and create food waste.

What is our challenge in food system?

Building Bridges Across Authorities, Industries, Academia, and Startups



Facilitate & Educate

Sorting, Validating, and Simplifying the Abundance of Information

Collect & Translate

CATALYSE
Catalysing scientific innovation into food safety action

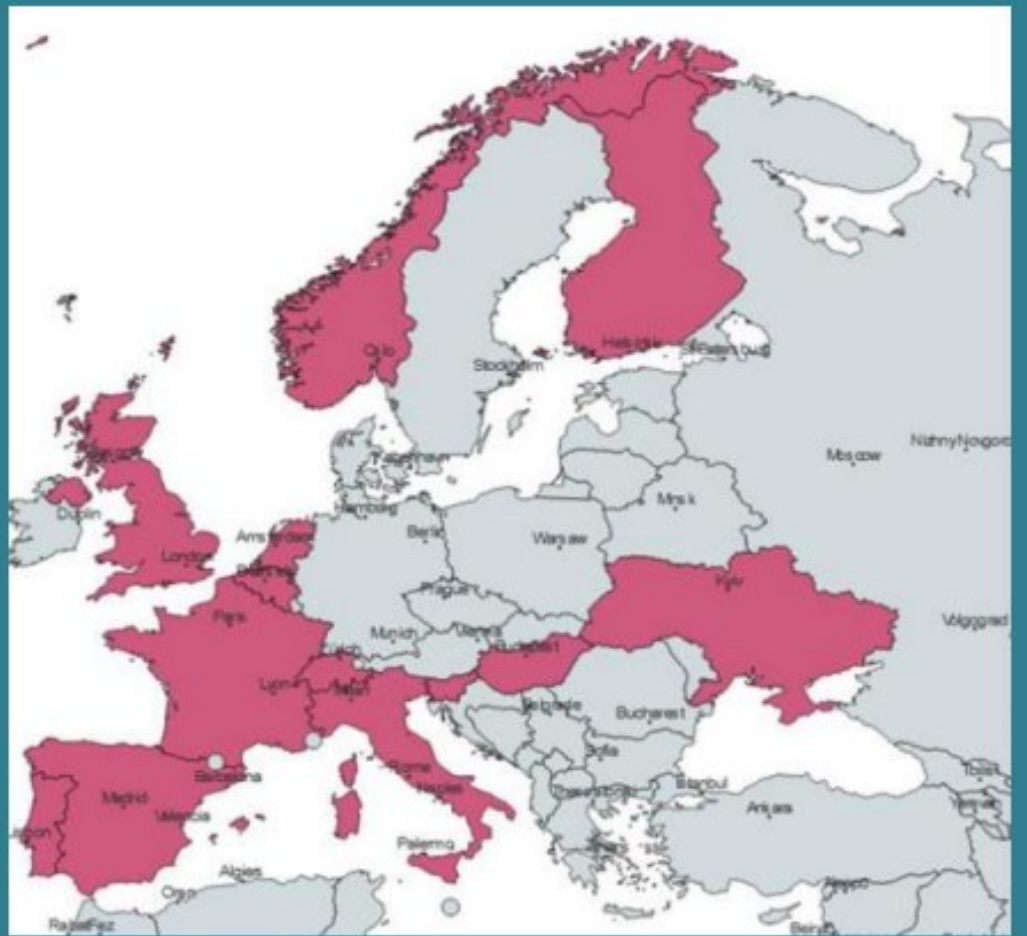
Main facts

Call: HORIZON-CL6-2023-FARM2FORK-01-12
Thematic network ensuring food safety by translating research & innovation into practice

3 years project: 01/01/2024 - 31/12/2026

17 partners representing the food system (research and academia, industry associations, national regulatory bodies)

13 countries (Italy, Portugal, Belgium, The Netherlands, Norway, Spain, Hungary, Finland, Slovakia, United Kingdom, France, Ukraine, Switzerland)



Consortium

Project Coordinator

UNIVERSITÀ CATTOLICA del Sacro Cuore

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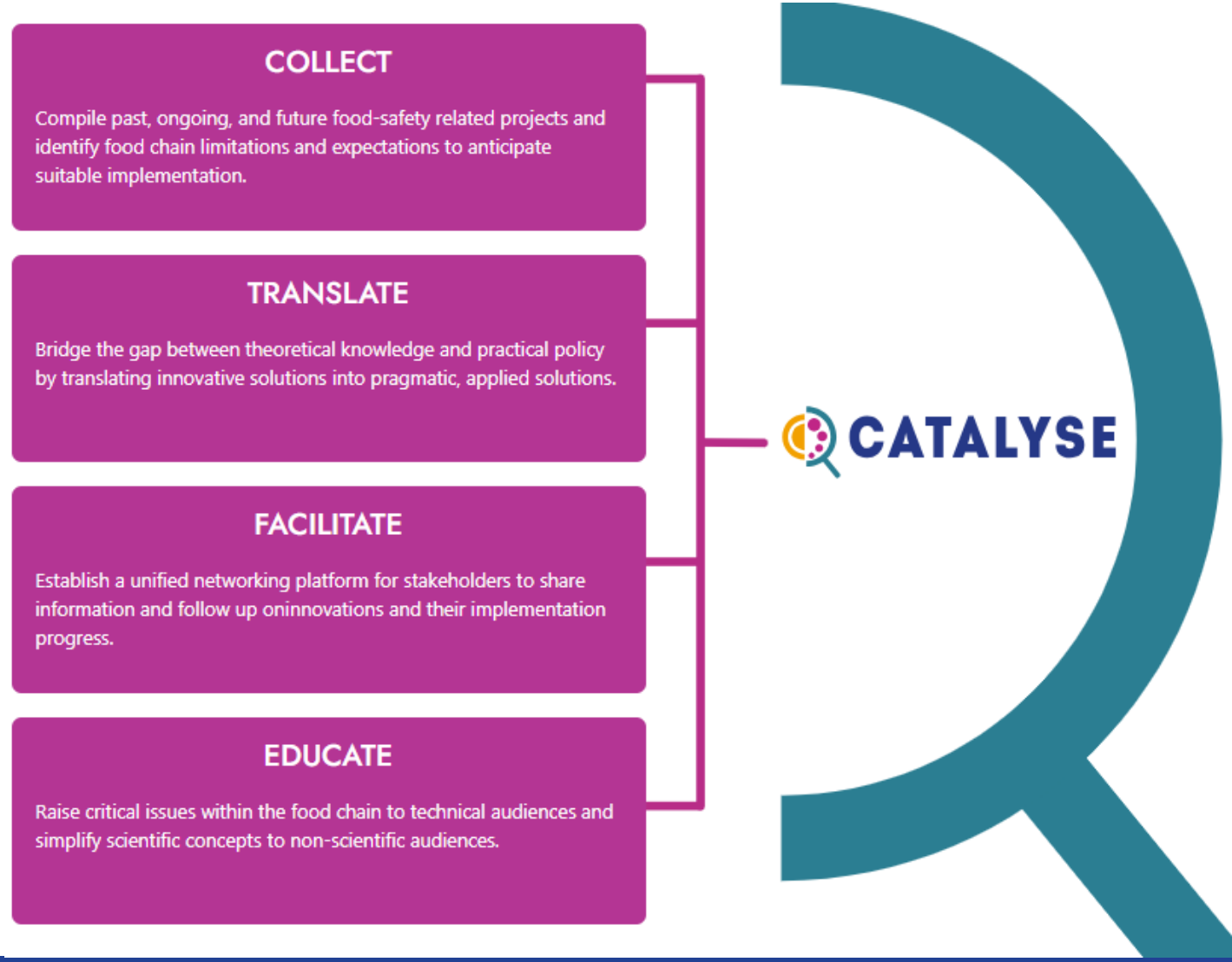
Agroscope

FOOD SAFETY RESEARCH NETWORK

CATALYSE – Working model

EXPECTED RESULTS

1. Prioritised list with needs from end-users
2. List of high potential innovations
3. Searchable knowledge database
4. Vivid **Community of Practice**
5. High quality education program
6. Better connections between end-users and innovators
7. **Improved uptake of new innovations in food safety**



Community of Practice (CoP)

"CoP are groups of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly."

Etienne Wenger

This community collaborates to learn, exchange experiences and improve their skills.

Give voice to the stakeholders/members in the CoP

What do the stakeholders want or need?
Do the stakeholders have innovations to share?

Agroscope's CoP Living Model: A Pilot in Dairy & Cheese Community

- Farmers & Producers
- Agencies & Associations
- Authorities
- Universities

75%

Market Reach

Swiss cheese dairies using Agroscope's microbial cultures

600+

Annual Consultations

Direct support to producers

50+

Training Sessions

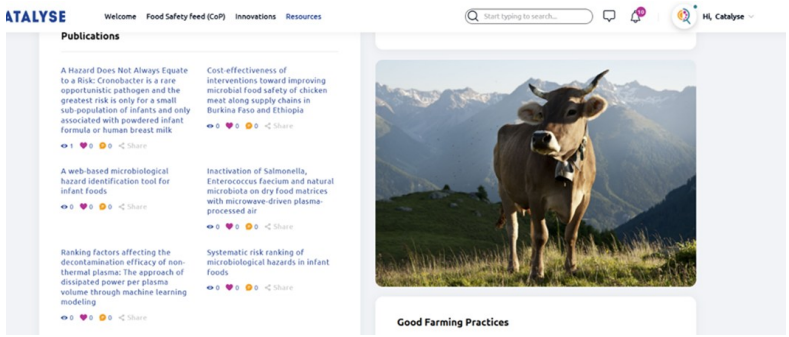
Knowledge transfer each year

Collection of recent Publications Shared with the CoP

Selection of 120 practical publications for the CoP homepage Dairy & Alternatives

Agroscope Transfer

Agroscope Magazine

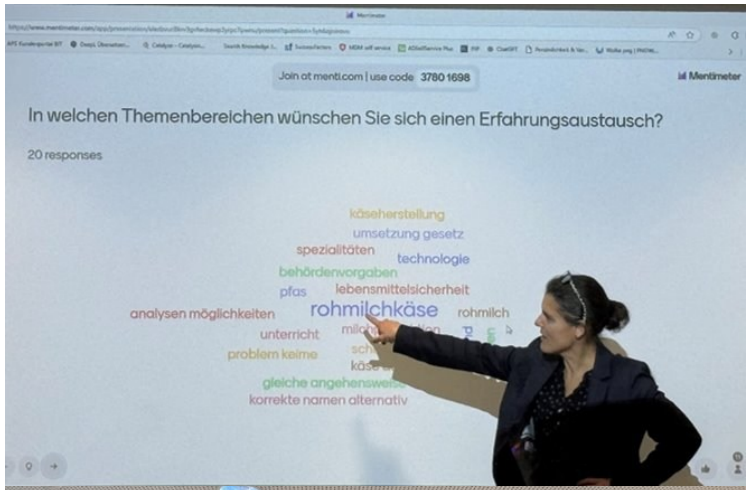


Agroscope Science

Engaging Stakeholders: CoP Exchange on Needs and Expectation

Presenting the CoP Model for Industries, Associations, and Communities of Practice in Switzerland in events:

- Semi-Hard cheese and dairy Associations 02.12.24 - regional consultants and regional laboratories
- Industry Engagement Day 09.11.24
- Agroscope Consultant & Association Symposium 27.01.25



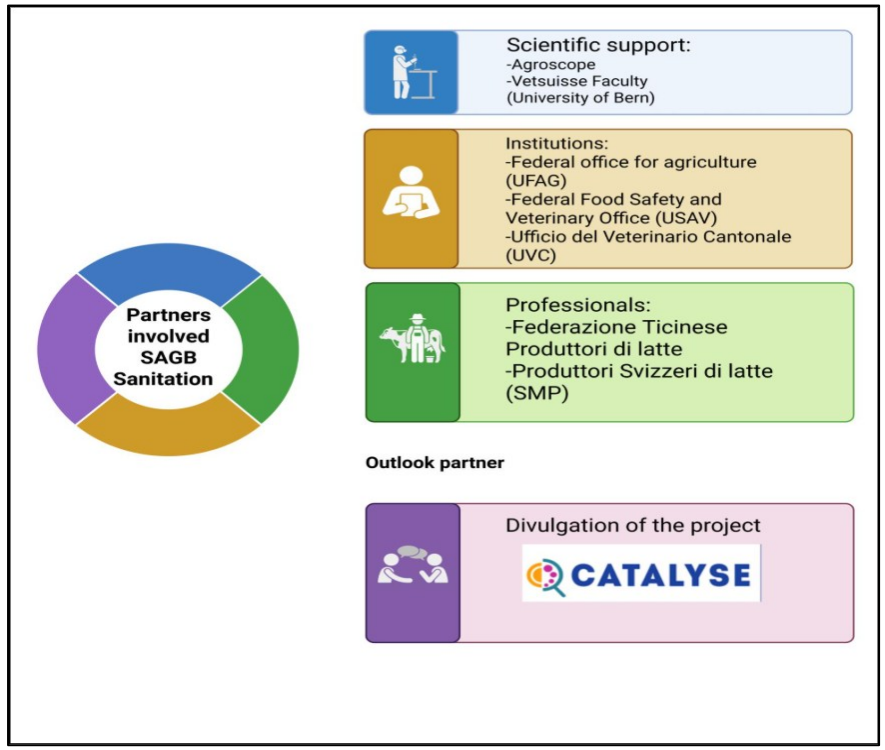
Key Topics Identified from Interviews and Surveys

- Digitalization & AI
- new tools for monitoring and detecting hazards
- food safety regulation and compliance
- hygiene by design
- food safety culture
- emerging risks

Case Study: from Innovation Mastitis Sanitation to Practices

- Basic research – Radar screen phase - Scanning the horizon for Food Safety hazards
- Identify relevance - Risk Identification & Characterization Phase
- Develop innovative methodologies
- Pilot experiment – connecting the dots
- Sanitation program in one Swiss region
- International research and evaluation of needs for innovative solutions for small-scale dairy farmers in Europe
- Adapt and roll out innovation from Switzerland to EU / transition countries through EU food safety network

Coming : Frontiers | veterinary science – community case study



Sources and screening of the training material

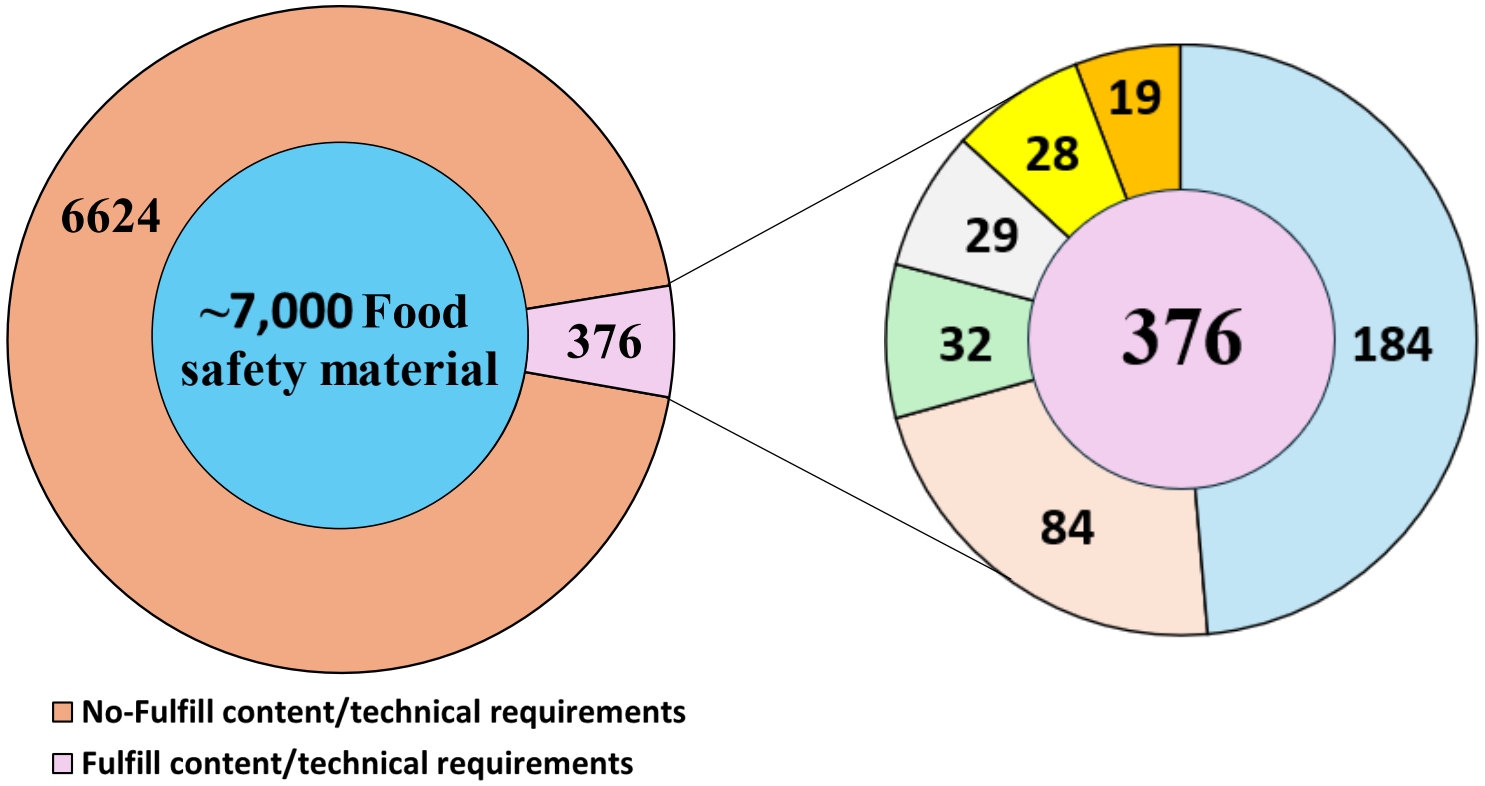
Screening of online educational and training materials for Food safety relevance

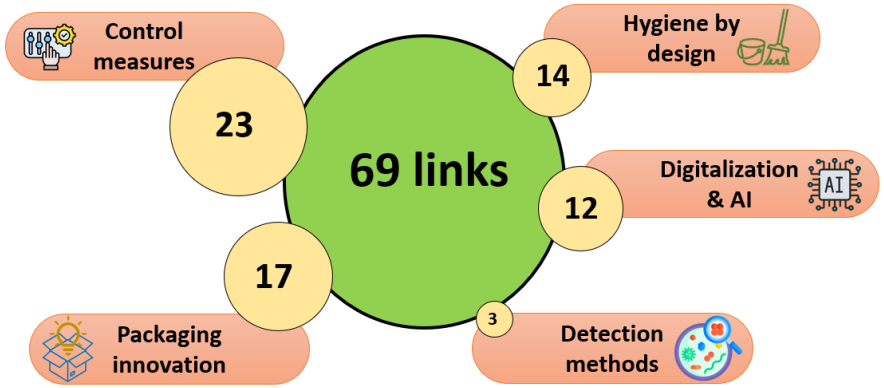
- Clips
- Videos
- Webinars
- E-books
- Online tools
- Podcasts
- Tutorials
- Online food safety education material packages

Produced by 150 different organisations

Sources and screening of the material

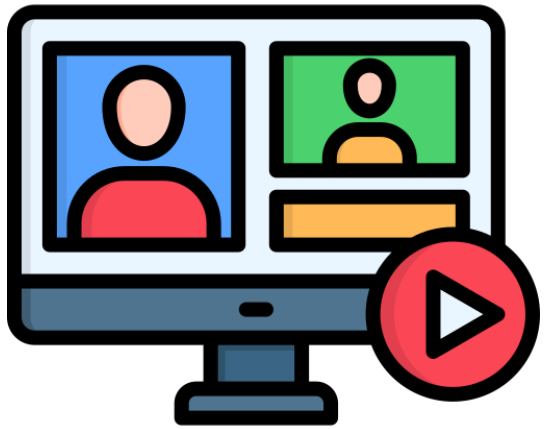
Based on single-reviewer evaluation





Development of new educational material

- **Webinars:**
  - Tools to predict microbial growth
  - Emerging risks
  - Microplastics



International Association for Food Protection

Predicting the Troublemakers: Guidance and a Computer Tool for Microbial Growth

IAFP Webinar: May 15, 2025, 10:30-11:30 AM CST

Moderated by Dr. Abdullatif Tay, PepsiCo

Agroscope Outlook: Next Steps in CoP Development and Engagement

World Cheese Awards

Bern, November 2025 • 5,000+ cheeses from 50+ countries

Alternative Proteins Event

Bern, November 2025 • Focus on SMEs and start-ups

Milk Day

Bern, November 2025 • Focus on recent research in dairy

7 June

Food safety: science in action

WFSD & BSL3 visit

8-10 Jun 2026 • Industries, SMEs, Experts and biosafety Net works

Food and Agriculture Organization of the United Nations

World Health Organization

Bridging Science & Practice: Comprehensive Database on food safety and innovations

Agroscope,cheese, Dairy & alternatives

Matchmaking Innovative Startups

Practice-Oriented Training & videos

Webinars, On-site events

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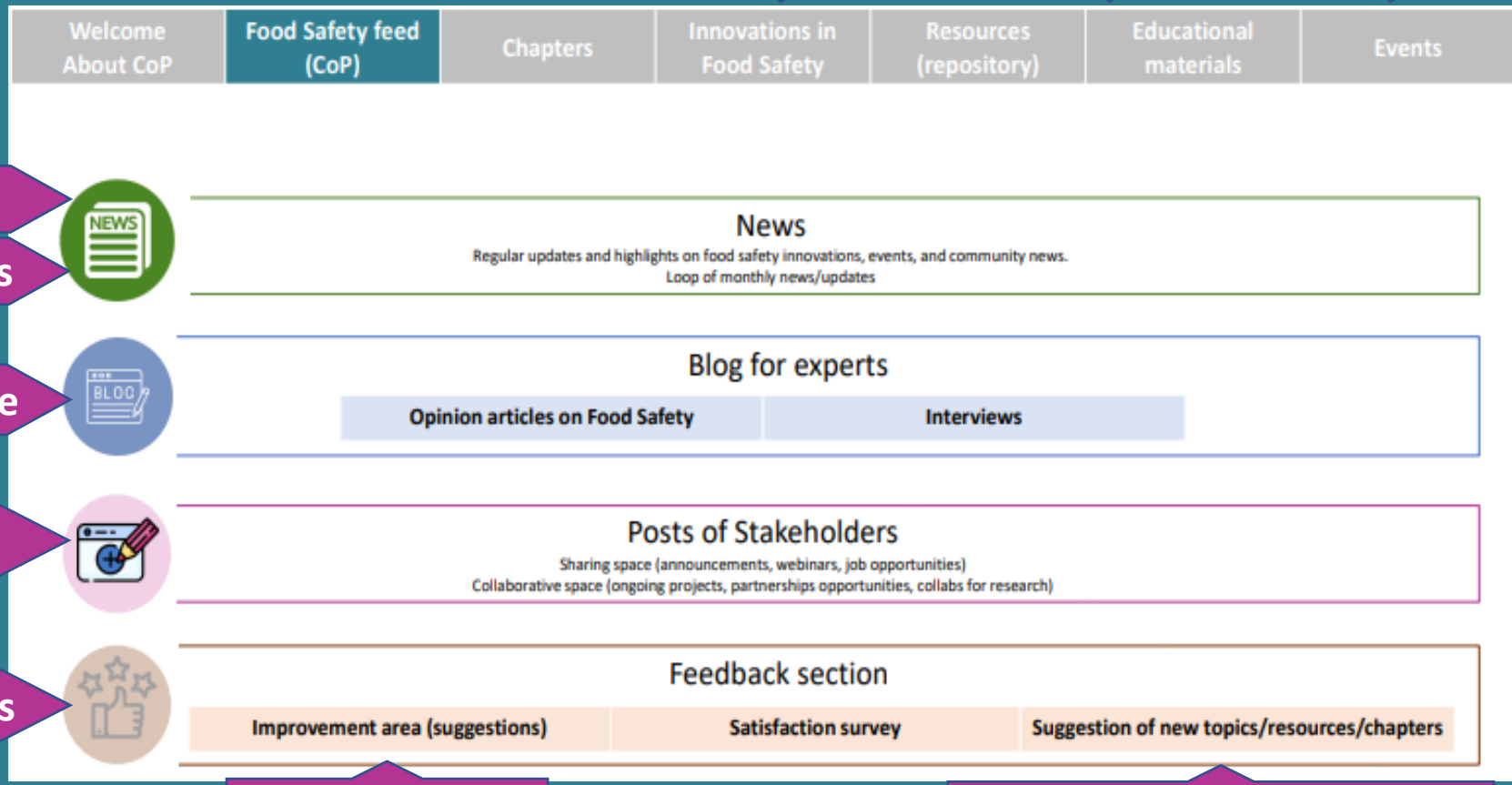

Newsletter; articles, events, AI & tech

Sharing Emerging Risks & Detection Methods

Interactive Blog & Q&A, knowledge exchange

Success Stories , Best Practice of members

Influence on Research Priorities& legislations

Members **express needs**

partnerships **global research & innovation projects**

CATALYSE

www.thecatalyseproject.eu

CATALYSE

Catalysing scientific innovation into food safety action


Collect
Educate
Translate
Facilitate

https://www.menti.com/al79zwjhm2y3

https://www.menti.com/alrne4u9tet9