

CONFERENCE 2025



Funded by the European Union







- Jesica López Lund University
- Bobby Tsvetkov Wageningen University & Research
- Trang Nguyen– Wageningen University & Research





Funded by the European Union



Focused conversation

Jesica López– Lund University Bobby Tsvetkov – Wageningen University & Research Trang Nguyen– Wageningen University & Research

26 March 2025

Programme

Focused conversation Sharing back

Introduction

Pitch 1 – Christian Bugge Henriksen - CLEVERFOOD
Pitch 2 – Rosaline Remans - Food System Countdown Initiative
Pitch 3 – Paul Milbourne - FoodCLIC
Pitch 4 – Niels Halberg - FOODPathS
Pitch 5 – Rosina Malagrida - FOSTER
Pitch 6 – Anant Jani - FEAST Focused Conversation

'What gaps, opportunities and challenges are present in the current state of FSS in Europe, that can shape the development of a Pan-European FSS Network?'

ORID - Method

Objective phase	Key question: What are the main objectives and activities of the FSS networks represented here?
Reflective phase	Key question: What excites or concerns you most about the current state of FSS networks?
Interpretive phase	Key question: What gaps or opportunities do you see in the current network landscape for advancing FSS?
Decisional phase	Key question: What are the most important actions we can take to strengthen collaboration and impact across FSS networks?



Pitch 1 - CLEVERFOOD

Christian Bugge Henriksen – University of Copenhagen



CLEVERFOOD and FOOD 2030 Networks

Represented by CLEVERFOOD Coordinator Christian Bugge Henriksen, University of Copenhagen, e-mail: <u>cbh@plen.ku.dk</u>

FODD 2030 NETWORKS

Duration: 2023-2026

MORE INFORMATION AT WWW.FOOD2030.EU

CLEVERFOOD: 23 partners, including universities, research institutions, SMEs, NGOs, NPOs, local and national authorities.

OBJECTIVES: Facilitating a society-wide mobilization of all food system stakeholders for transforming the food system to become more fair, healthy and sustainable in line with key EU policy priorities **CORE ACTIVITIES:** i) Establish FOOD 2030 Networks, ii) Develop FOOD 2030 Online Platform, iii) Co-create and deploy FOOD 2030 Interactive Exhibition, iv) Designate and train FOOD 2030 Competence Centres, v) Support cross-project collaboration and living lab activities on policy, innovation, business development, education, multi-stakeholder collaboration, citizen empowerment, dissemination and mass mobilization FOOD 2030 NETWORKS: 80+ projects in the FOOD 2030 Project Collaboration Network; 90+ living labs in the FOOD 2030 Connected Lab Network **OBJECTIVES:** Breaking down silos and joining forces between initiatives that are sharing a similar vision of transforming the food system on the local, regional, national, European and international level **CORE ACTIVTIES:** i) Developing new relations and expanding networks, ii) Sharing successful practices and exploring synergies, iii) Providing and receiving targeted support, iv) Collaborating on vertical themes, common objectives and concrete actions, v) Organizing joint events, vi) Showcasing project results and maximizing impact, vii) Influencing policymaking and informing future EU legislation

Scan the QR code to join the FOOD 2030 Project Collaboration Network as







Scan the QR code to join the FOOD 2030 Connected Lab Network as living lab manager/representative:



FOOD 2030 Project Collaboration Network

The FOOD 2030 Project Collaboration Network is a network for projects, partnerships and networks that are working on technological, social and governance innovation for transforming the food system to become more fair, healthy and sustainable in line with key EU policy priorities



86 projects joined by 30 June 2024!

AfriFoodI inks AgriLoop agroBRIDGES BEATLES **Breadcrumb CHORIZO** Cities2030 **CLEVERFOOD COCOREADO** CODECS CODIET Coevolvers **CO-FRESH** COREnet CULTIVATE Data4Food2030 DigitAF DOMINO DRG4FOOD **ECO-READY** EdiCitiNet **EFUA**

ENFASYS ENOUGH EU4ADVICE FAIRCHAIN FEAST FFR-PLAY FLORA FNS Cloud FOLOU Food Screening EMR Food Trails FoodCLIC FoodDataQuest FoodE FOODCoST FOODITY FoodLoops FoodPaTHS FOODRUS FoodSafety4EU FoodSHIFT 2030 FoSSNet

FOSTER FOX 🗲 FUSILLI GenB GIANT LEAPS GOLE HealthFerm HealthyFoodAfrica Hungry EcoCities lnBestSoil ► INCITIS-FOOD LESTRA LIKE-A-PRO LiveSeeding MICROBIOMES4SOY NUTRISOIL PIMENTO ▶ PLAN'EAT

PrAEctiCe Precision Nutrition RefresCAR RESPONSE **RURALITES** SchoolFood4Change ShapingBio SISTERS Smart Protein SWITCH TITAN TrustEat **TRUSTyFOOD** ► WASTELESS WATSON YouAreIn Zero Hidden Hunger EU ZeroW

Cross-project collaboration facilitated by CLEVERFOOD and other projects

Vertical themes facilitated by CLEVERFOOD

- Policy and governance for food system transformation
- Innovation, data, digital tools, and sustainability assessment
- Business development, investment and financing
- Education and citizen science
- Public engagement, multi-stakeholder collaboration and empowerment
- Communication, dissemination and mass mobilization

<u>Common objectives facilitated by other projects in</u> the FOOD 2030 Project Collaboration Network

- Reducing food loss and waste across the food value chain
- Developing localized food systems and short food supply chains
- Optimizing the efficiency and sustainability of future food production
- Ensuring a just transition that is fair for both farmers and consumers
- Contributing to citizen-driven and city-led food system transformation

Learning and knowledge sharing for supporting food system transition

Shifting to healthier & more plant-based food production and consumption

FOOD 2030 Connected Lab Network



The FOOD 2030 Connected Lab Network is the corresponding network for living labs, communities of practice and other co-creation initiatives working on transforming the food system at the local, regional and national level



Pitch 2 – Food System Countdown Initiative

Rosaline Remans - Glocolearning



The Food Systems Countdown Initiative: Monitoring food system transformation to 2030 and beyond

March 26, 2025 Roseline Remans, PhD Ir. glocolearning and the Alliance of Bioversity & CIAT

CO-CHAIR ORGANIZATIONS:







COLUMBIA CLIMATE SCHOOL Climate, Earth, and Society



UNFSS catalyzed food system transformation pathways

Country progress on national pathway operationalization







But no monitoring system was agreed upon

- The SDG framework is insufficient to guide food system transformation
- Evidence-base decision-making needs indicators and data to guide decisions
- Demand for a multisectoral, multiscale indicator framework to monitor food systems change and transformation

The Food Systems Countdown Initiative formed to fill this gap.

The FSCI is an interdisciplinary, multi-institution scientific partnership to monitor global food systems in service of meeting the SDGs and other global goals.



Co-chair organizations:

Bain Global Alliance for Improved Nutrition



COLUMBIA CLIMATE SCHOOL Climate, Earth, and Society



College of Agriculture and Life Sciences

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The FSCI is an interdisciplinary, multi-institution scientific partnership to monitor global food systems in service of meeting the SDGs and other global goals.

Objectives:

- To provide actionable evidence to track progress and guide decisions for transformation
- Complement other monitoring and tracking initiatives
- Contribute to advancing the science of food systems and their transformation

FSCI timeline to 2030

All available at FSCI website



Food Policy 104 (2021) 102163

Contents lists available at ScienceDirect

Food Policy

journal homepage: www.elsevier.com/locate/foodpol

FLSEVIER

Viewpoint: Rigorous monitoring is necessary to guide food system transformation in the countdown to the 2030 global goals*



Fanzo et al. 2021

Indicator architecture

Types of change for food systems transformation



Fanzo et al. 2021

Indicator selection: transparent, inclusive, rigorous



THE FOOD SYSTEMS

COUNTDOWN

nature food

The state of food systems worldwide in the countdown to 2030

Diets, Nand

Governance

Global food systems baseline

- Food system success is not synonymous with country income.
- **Explore FSCI indicators and** country profiles on the food systems dashboard





Normalized distance to global mean (max-min scaling relative to global country-level values). Black vertical line indicates global mean, centered at 0. Sign aligned to desirable direction.



Analysis The provided any focus of the provided and the p

Global food systems trends 2000-2022

- show 20 out of 42 indicators moving in the desirable direction
- 7 indicators trend undesirably, and the rest show no change, which is also undesirable

Access to information Cost of healthy diet • *** Mobile phones per 100 people Experience food insecurity Access to safe water Conservation of genetic resources, animals *** Social capital index Minimum species diversity Yield, fruit *** Vegetable availability *** Ultraprocessed food sales *** Yield, beet Government effectiveness index Conservation of genetic resources, plants Open budget index Yield, milk Yield, vegetables Yield, cereals Fruit availability Rural underemployment Pesticide use Rural unemployment Food price volatility Nitrogen use efficiency Food system emissions Share of agriculture in GDP Agricultural water withdrawal Disaster damages share of GDP Emissions intensity, cereals (excluding rice) Emissions intensity, rice Milan urban food policy pact Cropland change Emissions intensity, milk Emissions intensity, beef Dietary sourcing flexibility Food supply variability Civil society participation Government accountability index Prevalence of undernourishment Food safety capacity Cannot afford healthy diet Food system pathway Average percent change per year (95% confidence interval) *** P < 0.001, ** P < 0.01, * P < 0.05

📃 No change 🛛 🛑 Undesirable change

Progress 🔵 Desirable change

Schneider, Remans et al. 2025



Navigating interactions between indicators

- Many interdependencies
- One third of interactions occur across themes
- Governance and resilience show the largest number of connections to other themes.

Diets, nutrition, & health



Environment, natural resources, & production



Livelihoods, poverty, & equity





Governance

Okil society participation Milan urban tood policy paot Right to food Food system pathway Government effootivenose index Food safety capacity Healthy food environment policies Government accountability index Open budget index Access to information



Resilience .

Disaster densges share of GDP Detary sourcing flexibility Social capital index Mobile phones per 100 people Minimum species diversity Conservation of genetic resources, plants Conservation of genetic resources, plants Reduced caping strategies Food price velatility Food caping strategies



CLOSEST CONNECTION

Direct connection

- Indirect connection via 1 indicato
- Indirect connectiont via 2 indicators

No connections or indirect connection via 3 indicators or more

Runal unterry Runal unterry Bocolli protection: a Cartal protection: a Cartal posting put Millan urban load p Millan urban load pattern coverment effoctiverne Food safety

Distantor dam Distany Motiva privari Minimuru Mi

Highly connected indicators

- Change in these indicators could have broad impact on others and/or require multiple coordinated actions
- Explore on the <u>food systems</u> <u>dashboard</u>





Analysis The section of the section

Highly connected indicators

Rows highly connected across columns show where changes in these indicators could have broad impact on others.

Diets, nutrition, & health



Environment, natural resources, & production



Livelihoods, poverty, & equity



Governance .

Civil accerty participation	
Right to food	
Food system pathway	
Government effectiveness index	
Food safety capacity	
Healthy food environment policies	
Government accountability index	
Open budget index	
Access to information	

Resilience





Analysis Experied and resilience as entry points for transforming food systems in the countdown to 2030

Highly connected indicators

Columns with many influencing rows suggest indicators where multiple coordinated actions are needed to drive change.



Critical data gaps exist to measure Food Systems



Economic value



Workers and worker welfare



Productivity



Policy coherence for transformation



The true cost of food



Food loss and waste



Budgetary allocations



Food safety





Thank you!

Roseline Remans on behalf of Food Systems Countdown Initiative <u>roseline@glocolearning.com</u>; <u>kschne29@jhu.edu</u>

www.foodcountdown.org

Explore the data on the Food Systems Dashboard! https://www.foodsystemsdashboard.org/

Pitch 3- FoodCLIC

Paul Milbourne – Cardiff University



developing a pan-European HEI network of research institutions working on sustainable food systems Paul Milbourne Cardiff University

FOODCLIC'S AIM

Interface where people interact with wider food system to grow, share and eat food



Develop more **integrated food policies** to create sustainable urban **food environments**, so citizens are empowered to access healthy, sustainably produced food





How to accelerate food system transformation?

CLIC FRAMEWORK



System thinking requires **integration across four pillars** when designing, implementing and evaluating interventions and policies



FPNs AND LIVING LABS IN 8 CITY REGIONS

ITALY

AARHUS Aarhus University Aarhus Municipality

AMSTERDAM

City of Amsterdam Food Connect Foundation (Stichting Voedsel Verbindt) VU Foundation (Stichting VU)

BARCELONA

Metropolitan Area of Barcelona IrsiCaixa AIDS Research Institute

BERLIN

Humboldt University of Berlin Berlin Food Policy Council

SPAIN

PORTUGAL

DENMARK NETHERLANDS GERMANY HUNGARY

ROMANIA

BRASOV City of Brasov

Transilvania University of Brasov

BUDAPEST

Municipality of Budapest ESSRG Nonprofit KFT

LISBON

Faculty of Medicine, University of Lisbon Municipal Environmental Government Agency (EMAC)

> **LUCCA** Municipality of Capannori University of Pisa

What we said in our proposal

- FOODCLIC will facilitate the development of a pan-European HEI network of research institutions committed to sustainable food systems
- Two network meetings will be organised to catalyse the formation of a pan-European HEI network committed to sustainable food systems



Other developments since we started

 CLEVERFOOD - transformation of higher education teaching on food systems and the establishment of the FOOD2030 Higher Education Network

 FossNet - development and implementation of an academy for food systems scientists and professionals and the development of next generation Food Systems Science curricula



Joined up working

- Conversations and commitment to work together
- Sustainable food systems pedagogy / teaching
- Sustainable food systems research
- Civic mission / engagement with organisations working on sustainable food
- Sustainable food procurement
- Amendment to our timetable
- First joint event May 2025



Berlin workshop, October 2024

- To what extent are sustainable food systems part of the work of your department, centre or institution?
 - research
 - civic mission / engagements with food organisations
 - pedagogy / teaching
 - food procurement policy
- In what ways would a pan-European HEI network on (sustainable) food systems be of value to you / your institution?
- What would you like from it?



Pitch 4 - FOODPathS

Niels Halberg – Aarhus University



FOODPathS - towards FutureFoodS, the Partnership on Sustainable Food Systems (P-SFS)



1st Conference – Oxford, 25-27 March 2025 *Theme*: Food Systems Conceptual Issues

Niels Halberg, Aarhus University, on behalf of the entire FOODPathS Team

The role of FOODPathS:



- Developing the prototype Partnership on Sustainable Food Systems (funding, governance, modus

operandi, FS Labs, chart, RIPE, trade-offs,..) and providing suggestions / input to DG RTD & FutureFoodS

- Giving voices to various actors (thanks to 17 partners representing 19 networks (local, regional, national, European,

global, public-private, philanthropic, research, education, innovation, communication, management)



European CSA Project no. 101059497; June 2022 – Dec 2025



Key activities in support of R&I in partnership **FutureFoodS**

foodpaths

Developing the SRIA

- **Building network of funding agencies**
- Principles for calls :
- ? How to ensure a systems approach
- ? Demands for inter-disciplinarity
- Focus groups: Researchers w systemic research experience

SYSTEMS APPROACH KEY POINTS food paths

Food system approach: representative words



online

 27 invitations • 17 participants

1-2 co-facilitator

• 3 sessions

• 2 hours • 1 facilitator







foc **INTER/TRANS - DISCIPLINARITY KEY POINTS**



FOCUS GROUP PROCESS

What constitutes a Food Systems observatory?

How to observe *FS transition* across actors, activities, outcomes in a coherent set-up?

How to account for interactions, feed-back loops , interdependencies?

Which users are interested in what (type



16 food systems observatoriesrepresenting broad networks of experts





Policy makers/civil servants: Complexity of food systems causes need for rethinking S-P-I

Existing linear, demand driven Science – Policy interface : Seek to ensure research integrity and independence



Both diagrams are simplifications of a much broader S-P-I landscape!

Example of Co-creation process to allow dialogues for improved mutual understanding of issues and options

An even more radical change: Moving from S-P-I to Science-Policysociety Interfase? Needs further development...

Work done and Results achieved

- SRIA update was a stakeholder survey via Foodpaths' advisory board members
- Guidelines for Science to Policy interface'
- Focus groups and workshops to receive experts input to requirements for inter-disciplinarity in FS research projects. Collaborated with SCAR SWG FS on the same questions. (Milestone 12 "Consensus about need for inter-disciplinarity "systemsoriented topics")
- Recommendations re. need and description of inter-disciplinarity and FS approach in FutureFoodS calls reported as part of D2.2



Pitch 5 - FOSTER

Rosina Malagrida

Pitch 6 - FEAST

Anant Jani – Heidelberg University

FEAST

Food Systems that support transitions to healthy S and sustainable J diets

Dr Anant Jani

anant.jani@uni-Heidelberg.de



Co-funded by the European Union

FEAST is co-funded by the European Union's Horizon Europe research and innovation programme under grant agreement number 101060536. Views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them.

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Current Food Systems: Lose-Lose-Win

People: LOSE¹

- Poor-quality diets leading cause of death and a top contributor to Non-Communicable Disease (NCD – high BP, diabetes, obesity/overweight)
 - NCDs: ~75% of all diseases in Europe
 - NCDs: ~ 85% of all deaths in Europe
- Entrench health inequalities

Environment: LOSE¹

- 26% of global greenhouse gas (GHG) emissions
- 50% of global habitable land use
- 70% of freshwater use
- 78% of eutrophication
- 60% of biodiversity loss

Public Sector/Society: LOSE¹

- EU governments spend about €700 billion/year to treat NCD
 - ~70% of the ~€1 trillion (7-10% of GDP) EU governments spend annually on healthcare
- Cost of overweight/obesity to increase from \$2 trillion to \$4 trillion by 2035

Large Multinationals: WIN¹

- Processed foods sales: ~\$350 billion, ~7% profit margin
- Soft drinks sales: ~\$100 billion, ~14% profit margin
- Fast food sales: ~\$75 billion, ~13% profit margin

Hidden costs of global agrifood systems worth at least \$10 trillion²

^{1. &}lt;u>https://www.frontiersin.org/journals/sustainable-food-systems/articles/10.3389/fsufs.2022.1039127/full</u>

^{2. &}lt;u>https://www.fao.org/newsroom/detail/hidden-costs-of-global-agrifood-systems-worth-at-least--10-trillion/en</u>

FEAST: Transition to Win-Win-Win-Win

NEEDS

political decision-making that determines the overall context of the collective choices of food system actors that shape food environments

procurement of healty and sustainable food by producers, retailers and the food industry, and how this creates food environments that influence food cultures

individual dietary choices shaped by food cultures & environments

STAKEHOLDER GROUP LEVELS

Macro

EU Commission & policymakers, National authorities

Meso

Provincial/Municipal/Local authorities, Large food industry (producers, retailers distributors), Hospitality/Catering, Healthcare providers, Education system (schools, universities)



EU citizens, diverse vulnerable groups, non-governmental consumer, community & patient organisations, SMEs, small farmers

ACTIVITIES

Macro + Meso

- · Develop systemic transition models,
- Get/create multi-level perspective on socio-technical transitions,
- Implement transition management,
- Design strategic niche management and the technological innovation
- Capture relevant barriers and enablers of food system actors to improve food environments.

Meso + Micro

- Development of innovative, effective tools and strategies
- Use of digital tools for self-management Monitoring of policy impacts.

Micro

- · Model of social transformation in food behaviours
- · Identify individual determinants of dietary choices
- Identify social practices of food (e.g. food cultures).

https://www.frontiersin.org/articles/10.3389/fsufs.2022.1039127/full?trk=organization_guest_main-feed-card_reshare_feed-article-content

A Consortium to deliver Win-Win-Win-Win

Cannot be academically led & must be 'European'

- FEAST = represent partners for European food typology regions (slide 6)
- FEAST = 50% Academic / 50% non-Academic partners
- FEAST = 50:50 budget split to academic/non-academic partners
- FEAST = Flat structured & avoid annoying/exclusionary academic jargon

Need to have a mechanism/authority to embed/sustain change

- FEAST = ~40% partners are municipalities or have strong working links with municipalities
- FEAST = all partners selected for experience of driving/sustaining change on the ground

This is going to be hard work & sometimes demoralising; Never give up, never give in!

- FEAST = strong & shared mission alignment

FEAST Consortium



FEAST Consortium



LIVING LAB





Central European group Rotterdam (ROT) Avignon (AVI) Leuven (LEU) Ghent (GEN) LEADER Region Weinviertel-Donauraum (LEA)

Scandinavian group Guldborgsund (GUL)

Southern group Alto Minho (CIM) Sitia (SIT) Lucca Valli Etrusche (TNO)

Eastern European group Lodz (UL) Prilep (PRI)

ASSOCIATED SITES

Berlin Bologna London Kaunas Stockholm







CIM Alto Minho

Ghent



Oxfordshire

Prilep

Lodz

Avignon



Tuscany



Guldborgsund

LEADER Weinviertel

Leuven







Rotterdam

Sitia

Focused conversation

Focused Conversation

'What gaps, opportunities and challenges are present in the current state of FSS in Europe, that can shape the development of a Pan-European FSS Network?'

ORID - Method

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Decisional phase	Key question: What are the most important actions we can take to strengthen collaboration and impact across FSS networks?
S FossNet	56

Per table:

- Read the hand-out
- Assign a note taker
- Spend 10 minutes on each phase
- Write down your answers on the A1 or on a sticky note
 - 1 idea per sticky note



Sharing back





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Thank you!

15 April 2025