



START
CENTRE FOR SUSTAINABLE
AGRIFOOD SYSTEMS



START Green Minds Gather Conference

– background reading



APPENDIX



START Green Minds Gather Conference

Background reading

This is an appendix to the report *What if? Ways forward based on the 2025 START Green Minds Gather Conference for an accelerated, research-based green transition in European agrifood systems*, published by START – Centre for Sustainable Agrifood Systems in 2025.

The following background reading is provided by the track session leaders at START Green Minds Gather Conference 29-30 April, 2025, all named in the report.

■ Multifunctional land use and nature-based solutions

European Biosolutions Coalition (2024), *Policy recommendations published: How biosolutions can strengthen Europe's sustainability, resilience and competitiveness*

Torma, G., Aschemann-Witzel, J. (2023), *Social acceptance of dual land use approaches: Stakeholders' perceptions of the drivers and barriers confronting agrivoltaics diffusion*, Journal of Rural Studies <https://doi.org/10.1016/j.jrurstud.2023.01.014>

Food, Farming & Countryside Commission (2025), *Multifunctional Land Use Framework – A Rough Guide*

Videnskab.dk (2025), *Bakterier forvandler kartoffelskræller og muggent brød til mad*

■ Innovative biomass utilisation and side stream management for a sustainable agrifood future

Muurmann, et al. (2024), *Framework for valorizing waste- and by-products through insects and their microbiomes for food and feed*, Food Research International <https://doi.org/10.1016/j.foodres.2024.114358>

Franquesa, et al. (2024), *The food by-products bioprocess wheel: A guidance tool for the food industry*, Trends in Food Science & Technology <https://doi.org/10.1016/j.tifs.2024.104652>

Ospina-Maldonado, et al. (2024), *From waste to wellness: A review on the harness of food industry by-products for sustainable functional food production*, International Journal of Food Science and Technology <https://doi.org/10.1111/ijfs.17571>

Aalborg Universitet, AAU Play, *forelæsning om "Fremtidens produktion af bæredygtige fødevarer"*



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■ Blue solutions for a sustainable future

EU publication from Directorate-General for Maritime Affairs and Fisheries (2025), [EU consumer habits regarding fishery and aquaculture products](#)

■ Developing a sustainable and resilient primary production

Advisory memo from the DCA – Danish Centre for Food and Agriculture (in Danish)(2024), [Climate and environmental effects of increased cultivation of pulses/protein crops](#)

■ Transforming food manufacturing and distribution

New ERA (2025), [The New European Reuse Alliance](#)

European Commission (2025), [Regulation on packaging and packaging waste](#)

Ellen MacArthur Foundation (2019), [Reuse Rethinking Packaging](#)

■ Developing Localized Food Systems and Short Food Supply Chains



Digital booklet on the main findings of the SMARTCHAIN project. In nine languages farmers, food producers and other practitioners can find applicable solutions and tips to improve business performance while increasing sustainability, ["Insights & recommendations to support collaborative Short Food Supply Chains"](#)



[Einblicke & empfehlungen zur förderung von kollaborativen kurzen lebensmittelversorgungsketten](#) (German)



[Información y recomendaciones para apoyar las cadenas cortas de suministro de alimentos colaborativas](#) (Spanish)



[Etat des lieux et recommandations pour le soutien des circuits courts alimentaires collaboratifs](#) (French)



[ΠΛΗΡΟΦΟΡΙΕΣ ΚΑΙ ΠΡΟΤΑΣΕΙΣ ΓΙΑ ΤΗΝ ΥΠΟΣΤΗΡΙΞΗ ΣΥΝΕΡΓΑΤΙΚΩΝ ΒΡΑΧΕΙΩΝ ΑΛΥΣΙΔΩΝ ΕΦΟΔΙΑΣΜΟΥ ΤΡΟΦΙΜΩΝ](#) (Greek)



[Betekintés és ajánlások a rövid élelmiszerellátási láncok együttműködésének támogatására](#) (Hungarian)



[Approfondimenti e raccomandazioni per sostenere le filiere alimentari corte e collaborative](#) (Italian)



[Inzichten & aanbevelingen om samenwerkende korte voedselketens te ondersteunen](#) (Dutch)



[Saznanja i preporuke u cilju pružanja podrške udruženim kratkim lancima snabdevanja hranom](#) (Serbian)



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Moore, D., Massar, B., Frederiks, M., Veltkamp, R., Runhaar, H. (2022), **Gamification for Sustainable Food Transitions: Supporting Multi-Level Cooperation in Short Food Supply Chains Through GAIN**, International Journal of Food Studies
<https://doi.org/10.7455/ijfs/11.si.2022.a10>

Schafer, L.J.; Singh, A., Frederiks, M., Klop, M., Kingfisher, L., Murray, C., Broerse, J. (2025), **Digital Innovations for Transformative Food Systems Governance: Conceptualising a COMMONSource test case**
<https://doi.org/10.12688/openreseurope.19890.1>

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

WHO European Office for the Prevention and Control of Noncommunicable Diseases (2021), **Plant-based diets and their impact on health, sustainability and the environment; A review of the evidence**

Prag, A. A., Henriksen C. B. (2020), **Transition from Animal-Based to Plant-Based Food Production to Reduce Greenhouse Gas Emissions from Agriculture—The Case of Denmark**, Sustainability
<https://doi.org/10.3390/su12198228>

Anant, J., et al. (2022), **Transitions to food democracy through multilevel governance**, Frontiers in Sustainable Food Systems
<https://www.frontiersin.org/journals/sustainable-food-systems/articles/10.3389/fsufs.2022.1039127/full>

Dörnyei, K. R., Uysal Ü. I., Krauter, Victoria v. et al. (2023), **Sustainable food packaging: An updated definition following a holistic approach**, Frontiers in Sustainable Food Systems
<https://doi.org/10.3389/fsufs.2023.1119052>



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■ Leveraging digital technologies for sustainable agrifood systems

Myshko, A., Checchinato, F., Colapinto, C., Finotto, V., Mauracher, C. (2024), **Towards twin transition in the agri-food sector? Framing the current debate on sustainability and digitalisation**, Journal of Cleaner Production
<https://doi.org/10.1016/j.jclepro.2024.142063>

Vahdanjoo, M., Grøn Sørensen, G., Nørremark, M. (2024), **Digital transformation of the agri-food system**, Current Opinion in Food Science
<https://doi.org/10.1016/j.cofs.2025.101287>

Klerkx, L., Rose, D. (2020), **Dealing with the game-changing technologies of Agriculture 4.0: How do we manage diversity and responsibility in food system transition pathways?** Global Food Security
<https://doi.org/10.1016/j.gfs.2019.100347>

Jayaraman, P. P., Yavari, A., Georgakopoulos, D., Morshed, A., Zaslavsky, A. (2021), **Internet of Things platform for smart farming: Experiences and lessons learnt**. Sensors
<https://doi.org/10.3390/s16111884>

Misra, N. N., Dixit, Y., Al-Mallahi, A., Bhullar, M. S., Upadhyay, R., Martynenko, A. (2020), **IoT, big data and artificial intelligence in agriculture and food industry**. IEEE Internet of Things Journal
<https://doi.org/10.1109/JIOT.2020.2998584>

Krupitzer, C., Stein, A. (2023), **Unleashing the potential of digitalization in the agri-food chain for integrated food systems**. Annual Review of Food Science and Technology
<https://doi.org/10.1146/annurev-food-012422-024649>

Kovács, t., Botos, S., Felföldi, J. (2024), **What does digital transformation do in agriculture? A systematic literature review of Agri-food sector's digitalisation**. Journal of Agricultural Informatics
<https://doi.org/10.17700/jai.2023.14.2.707>

Lioutas, E. D., Charatsari, C., De Rosa, M. (2021), **Digitalization of agriculture: A way to solve the food problem or a trolley dilemma?** Technology in Society
<https://doi.org/10.1016/j.techsoc.2021.101744>

Kukk, M., Pöder, A., Viira, A. (2022), **The role of public policies in the digitalisation of the agri-food sector. A systematic review**. NJAS Impact in Agricultural and Life Sciences
<https://doi.org/10.1080/27685241.2022.2147870>

Masi, A., Ciccullo, F., Pero, M. (2021), **Digitalizing agri-food supply chains to achieve Sustainable Development Goals: A systematic literature review**. International Conference on Engineering, Technology and Innovation
<https://doi.org/10.1109/ICE/ITMC52061.2021.9570237>



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■ Consumers and markets: Myths, realities and future pathways

Final report of the PlantPro project (2025), [Saving the world, one plate at a time](#)

Berlin: SAPEA, Scientific Advice Mechanism to the European Commission (2023), [Towards sustainable food consumption](#)

<https://doi.org/10.5281/zenodo.8031939>

■ Democracy and inclusion in agrifood systems

European Environment Agency (2024), [Delivering justice in sustainability transitions](#)

World Economic Forum (2025), [Why a local approach to the just transition is so important – and so effective](#)

Wittmayer, J.M., Campos, I., Avelino, F., Brown, D., Doračić, B., Fraaije, M., Gährs, S., Hinsch, A., Assalini, S., Becker, T., Marín-González, E., Holstenkamp, L., Bedoić, R., Duić, N., Oxenaar, S., Pukšec, T. (2022), [Thinking, doing, organising: Prefiguring just and sustainable energy systems via collective prosumer ecosystems in Europe](#), Energy Research & Social Science

<https://doi.org/10.1016/j.erss.2021.102425>

■ Mission-based research and agrifood

Gry, S., Hjort, J. (2025), [Navigating societal change through design, leading missions for a prosperous future](#), Policy Press

Mazzucato, M. (2021), Mission Economy, [A Moonshot Guide to Changing Capitalism](#), Penguin Books Ltd.

■ Impact investment for accelerating the transition to sustainable food systems

Deliverable 4.1 CLEVERFOOD (2023), [Impact Investors Living Lab – Overview and Roadmap for Scaling Impact Investment in Urban Food Systems](#)

■ Integrating a food system approach in higher education teaching

[The Food Systems Science Network](#)

Cleverfood



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■ **Accelerating learning and knowledge flows in agrifood systems**

Foster – advancing societal food system knowledge and innovation

Food Systems Science Network

Ericksen, P. J. (2008), **Conceptualizing food systems for global environmental change research**. Global Environmental Change
<https://doi.org/10.1016/j.gloenvcha.2007.09.002>

FAO – Food and Agriculture Organization (2018), **Sustainable food systems – Concept and framework**, brief by Hanh Nguyen

Fieldsend, A. F., Cronin, E., Varga, E., Biró, Sz., Rogge, E. (2020), **Organisational innovation systems for multi-actor co-innovation in European agriculture, forestry and related sectors: Diversity and common attributes**. Wageningen Journal of Life Sciences
<https://doi.org/10.1016/j.njas.2020.100335>

Fresco, L. O., Geerling-Eiff, F. A., Hoes, A. C., van Wassenae, L., Poppe, K. J., van der Vorst, J. G. A. J. (2021), **Sustainable food systems: Do agricultural economists have a role?** European Review of Agricultural Economics
<https://doi.org/10.1093/erae/jbab026>

Hermans, F., Sartas, M., van Schagen, B., van Asten, P., Schut, M. (2017), **Social network analysis of multi-stakeholder platforms in agricultural research for development: Opportunities and constraints for innovation and scaling**. PLoS ONE
<https://doi.org/10.1371/journal.pone.0169634>

Ingram, J.S.I. (2011), **A food systems approach to researching food security and its interactions with global environmental change**. Food Security.
<https://doi.org/10.1007/s12571-011-0149-9>

Ingram, J.S.I. (2017), **Look beyond production**. Nature.
<https://doi.org/10.1038/544S17a>

Lubell, M., Niles, M., Hoffman, M. (2014), **Extension 3.0: Managing agricultural knowledge systems in the network age**. Society & Natural Resources.
<https://doi.org/10.1080/08941920.2014.933496>

Spaargaren, G., Loeber, A., Oosterveer, P. (2012), **“Food futures in the making”**; G. Spaargaren, P. Oosterveer, A. Loeber (eds.) **Food Practices in Transition: Changing Food Consumption, Retail and Production in the Age of Reflexive Modernity**. New York: Routledge.
<https://doi.org/10.4324/9780203135921>

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