TITAN

Transparency solutions for transforming the food system

Summary of interesting publications on topics relevant to the TITAN project

ENABLING INFORMED CHOICES BY CONSUMERS

Publications

PAPER

Foods

Food Risk Analysis: Towards a Better Understanding of "Hazard" and "Risk" in EU Food Legislation

For risk communication, it is important to understand the difference between "hazard" and "risk". The use of these terms as synonyms or their interchange is a recurrent issue in the area of food safety, despite awareness-raising messages sent by EFSA (European Food Safety Authority) and other interested entities.

Cioca, A., Tušar, L., & Langerholc, T. (2023).

PAPER

Foods

Characterization of the Bacterial Composition of 47 Fermented Foods in Sweden

Fermentation has long been utilized to preserve and enhance the flavor and nutritional value of foods. In this study, the bacterial composition, diversity, and richness of 47 fermented foods available in Sweden were characterized. The bacterial composition was strongly associated with the type of fermented food, and lactic acid bacteria and/or acetic acid bacteria dominated most samples.

Palmnäs-Bédard, M., De Santa Izabel, A., Dicksved, J., & Landberg, R. (2023).

PAPER

International Journal of Environmental Research and Public Health

School-Based Nutrition Programs in the Eastern Mediterranean Region: A Systematic Review

This systematic review aims at documenting government-led school nutrition programs/interventions in countries of the Eastern Mediterranean Region (EMR).

Al-Jawaldeh, A., Matbouli, D., Diab, S., Taktouk, M., Hojeij, L., Naalbandian, S., & Nasreddine, L. (2023).

PAPER

Toxins

Multiplex Detection of 24 Staphylococcal Enterotoxins in Culture Supernatant Using Liquid Chromatography Coupled to High-Resolution Mass Spectrometry

In this work, LC-HRMS was developed for the detection and quantification of 24 SEs. A database of 93 specific signature peptides and LC-HRMS parameters was optimized using sequences from 24 SEs, including their 162 variants. A label-free quantification protocol was established to overcome the absence of calibration standards.

Lefebvre, D., Blanco-Valle, K., Hennekinne, J., Simon, S., Fenaille, F., Bécher, F., & Nia, Y. (2022).

PAPER

Foods

Hyperspectral Imaging and Chemometrics for Authentication of Extra Virgin Olive Oil: A Comparative Approach with FTIR, UV-VIS, Raman, and GC-MS

This work presents a comparative study of chemometrics for the authentication and quantification of adulteration in EVOO with cheaper edible oils using GC-MS, HSI, FTIR, Raman and UV-Vis spectroscopies.

Malavi, D., Nikkhah, A., Raes, K., & Van Haute, S. (2023).

PAPER

Food Microbiology

Assessment of the presence of Acinetobacter spp. resistant to β-lactams in commercial ready-to-eat salad samples

In the current study commercial Ready-To-Eat (RTE) salads were analyzed seeking for antibiotic resistant *Acinetobacter* spp.

Costa-Ribeiro, A., Azinheiro, S., Mota, S., Prado, M., Lamas, A., & Garrido-Maestu, A. (2024).

REPORT

Foodvalley

Innovate for Good: Uncovering the roadblocks in the way of a healthier food assortment

In preparation for its new community, Healthier Food – Innovate for Good, Foodvalley NL has uncovered the main roadblocks that stand in the way of having a healthier assortment of food and drink products in stores, cafeterias and other points of sale.

Funded by the European Union

PAPER

PubMed

No food for thought-How important is breakfast to the health, educational attainment and wellbeing of school-aged children and young people?

The aim of this narrative review is to explore the contribution of breakfast consumption at home or at school and the impact of breakfast skipping on nutrient intakes in school-aged children (aged 4-18 years), and their effect on weight and cardiometabolic health.

REVIEW

Annual Review of Food Science and Technology

Starter Culture Development and Innovation for Novel Fermented Foods

Microbial interaction models are intended to quantify how much the growth of one population is affected by other microbial population(s). In the food context, these models are usually based on two approaches consisting of, on the one hand, the Jameson effect, which represents competition for nutrients between populations (e.g., lactic acid bacteria), and, on the other hand, the Lotka-Volterra (predator-prey) model, in which competition is represented by two inhibition coefficients.

Gänzle, M. G., Monnin, L., Zheng, J., Zhang, L., Coton, M., Sicard, D., & Walter, J. (2023).

PAPER

International Journal of Food Microbiology

Companilactobacillus alimentarius: An extensive characterization of strains isolated from spontaneous fermented sausages

In this study, 14 strains of *C. alimentarius* isolated from Mediterranean spontaneously fermented sausages, have been screened for their safety and technological characteristics and with phenotype microarrays with the aim to elucidate their potential role and contribution to sausage fermentation and ripening.

Tabanelli, G., Barbieri, F., Baños, A., Madero, J. M. G., Daza, M. V. B., Cortimiglia, C., Milani, G., Bassi, D., Gardini, F., & Montanari, C. (2024).

PAPER

LWT

Exploring microbial diversity during the artisanal Salchichón production: Food safety in the consumer spotlight

A study was conducted to evaluate the microbiological quality, safety, and variability along the production chain of two artisanal *salchichón* factories in Andalusia.

Bonilla-Luque, O. M., Valero, A., Tomasello, F., Cabo, M. L., Rodríguez-López, P., & Possas, A. (2024).

Funded by the European Union

PAPER

Trends in Food Science and Technology

Social media and food consumer behavior: A systematic review

Social media (SM) have become the integral part of consumers' daily life, prompting multidisciplinary research on their link with human behaviors, including food attitude and consumption. This review adopts a systematic literature approach, focusing on the methodological and outcome characteristics.

Rini, L., Schouteten, J. J., Faber, I., Frøst, M., Pérez-Cueto, F. J., & De Steur, H. (2024).

PAPER

Trends in Analytical Chemistry

Isotope ratio mass spectrometry (IRMS) methods for distinguishing organic from conventional food products: A review

This literature review examines recent applications of stable isotope ratio analysis that can be used in cases of organic food mislabeling.

Giannioti, Z., Ogrinc, N., Suman, M., Camin, F., & Bontempo, L. (2024).

PAPER

ACS ES&T Water.

Caught in Fish Gut: Uptake and Inflammatory Effects of Nanoplastics through Different Routes in the Aquatic Environment

This evaluated the impact of different exposure routes (waterborne, foodborne, and coexposure) of 80 nm polystyrene NPs on intestinal accumulation and inflammatory response using zebrafish.

Wang, J., Zheng, Y., Cheng, H., Chen, T., Tang, Y., Magnuson, J. T., Xu, X., Xu, E. G., & Chen, K. (2023).

PAPER

Frontiers in Microbiology

Comparing technology and regulatory landscape of probiotics as food, dietary supplements and live biotherapeutics

This review outlines the current landscape comparing probiotic foods, probiotic dietary supplements, and live biotherapeutics as probiotic products from a regulatory lens, focusing on product development, manufacturing and production, and clinical research agenda.

Spacova, I., Binda, S., Ter Haar, J. A., Henoud, S., Legrain–Raspaud, S., Dekker, J., Espadaler-Mazo, J., Langella, P., Martín, R., Pane, M., & Ouwehand, A. C. (2023).

ARTICLE

The Lancet Europe

Phenotypic and genotypic antimicrobial resistance of Listeria monocytogenes: and observational study in France

This study examined the antimicrobial resistance patterns in Lm over time and assessed genotype-phenotype concordances.

Moura, A., Leclercq, A., Vales, G., Tessaud-Rita, N., Bracq-Dieye, H., Thouvenot, P. (2023).

Funded by the European Union

REPORT

FOODAKAI

Mycotoxins: Food Safety Trends

Leveraging AI to Forecast Mycotoxins Trend in Key Food Categories.

PAPER

Journal of Environmental Psychology

Increasing the uptake of plant-based diets: An analysis of the impact of a CO2 food label

This paper presents evidence from a survey experiment with a sample of Swiss residents (N = 2372) who were randomly provided with information about an established CO2 food label.

Maier, M. (2024).

PAPER

Foods

Evaluation of the Novel mTA10 Selective Broth, MSB, for the Co-Enrichment and Detection of Salmonella spp., Escherichia coli O157 and Listeria monocytogenes in Ready-to-Eat Salad Samples

In the present study, a novel selective broth named MSB (mTA10 selective broth) was formulated for the simultaneous recovery of Salmonella spp., E. coli O157:H7 and L. monocytogenes. Attention was paid to ensure the optimal enrichment of L. monocytogenes as its enrichment is more challenging.

Costa-Ribeiro, A., Lamas, A., Prado, M., & Garrido-Maestu, A. (2023).

PAPER

Food Research International

Authenticity assessment of ground black pepper by combining headspace gas-chromatography ion mobility spectrometry and machine learning

Currently, the authentication of ground black pepper is a major concern, creating a need for a rapid, highly sensitive and specific detection tool to prevent the introduction of adulterated batches into the food chain. To this aim, head space gas-chromatography ion mobility spectrometry (HS-GC-IMS), combined with machine learning, is tested in this initial, proof-of-concept study.

Zacometti, C., Sammarco, G., Massaro, A., Lefèvre, S., Frégière-Salomon, A., Lafeuille, J., Candalino, I. F., Piro, R., Tata, A., & Suman, M. (2024).

PAPER

Food Research International

A web-based microbiological hazard identification tool for infant foods

A systematic procedure was developed to identify MHs in specific infant foods. This includes five major steps: 1) relevant hazard-food pairing, 2) process inactivation efficiency, 3) recontamination possibility after processing, 4) MHs growth opportunity, and 5) MHs-food association level.

Yeak, K. Y. C., Dank, A., Besten, H. M. D., & Zwietering, M. H. (2024).

Funded by the European Union

ARTICLE

Npj Science of Food

An analysis of emerging food safety and fraud risks of novel insect proteins within complex supply chains

The main aim of this study was to map the supply chain, through interviews with personnel along the supply chain, coupled with searches for relevant publications and governmental documents. Thus, the main potential points of food safety and fraud along the edible insect supply chain were identified. Traynor, A., Burns, D. T., Wu, D., Karoonuthaisiri, N., Petchkongkaew, A., & Elliott, C. T. (2024).

ARTICLE

European Food Safety Authority

Risks for animal health related to the presence of ergot alkaloids in feed

The European Commission requested EFSA to provide an update of the 2012 Scientific Opinion of the Panel on Contaminants in the Food Chain (CONTAM) on the risks for animal health related to the presence of ergot alkaloids (EAs) in feed.

Reports

REPORT

BEUC

How environmental advertising confuses consumers

To better understand the impact of greenwashing for consumers, BEUC and ICRT teamed up with 16 consumer groups from Europe, North America and Oceania to conduct a large-scale survey looking into people's perception of green claims, their experience with greenwashing and how they believe the problem should be tackled, if at all.

SUPPLY CHAIN SUSTAINABILITY

Publications

REPORT

Context Group

Sustainability ranking of top dairy companies

The dairy industry faces some unique challenges on its sustainability journey as it competes with the growing alternatives market and meets changing consumer expectations. These challenges exist in the global marketplace but vary in different regions and cultures. They include carbon and methane emissions, animal welfare, soil health, biodiversity, and social issues.

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ARTICLE

Nature Food

Agricultural input shocks affect crop yields more in the high-yielding areas of the world

This study modelled the effects of agricultural input shocks using a random forest machine learning algorithm, showing that shocks in fertilizers cause the most drastic yield losses.

Ahvo, A., Heino, M., Sandström, V., Chrisendo, D., Jalava, M., & Kummu, M. (2023).

ARTICLE

UNCTAD

Policy brief No. 112

The twenty-eighth session of the Conference of the Parties to the United Nations Framework Convention on Climate Change provides an opportunity to assess progress in decarbonization efforts in the shipping sector and adds further momentum to carbon reduction actions. As noted in this policy brief, taking swift measures to reduce the carbon footprint of this sector is instrumental, given the economic role of the sector and the potential for the current carbon footprint to grow in tandem with global economic growth and trade expansion.

ARTICLE

European Review of Agricultural Economics

Fast and furious: the rise of environmental impact reporting in food systems

Powerful long-term drivers are increasing both the demand and supply of quantified environmental impact information in food systems. This article discusses the trend, its drivers, impacts and potential pitfalls, as well as the many open research and policy questions.

Deconinck, K., Jansen, M., & Barisone, C. (2023).

ARTICLE

Fish and Fisheries

Drivers of success, speed and performance in fisheries moving towards Marine Stewardship Council certification

With growing concerns about global overfishing, market-based eco-certification programs like the Marine Stewardship Council (MSC) can incentivise adoption of sustainable practices. To evaluate improvement, pre-certification scores from MSC pre-assessments—rapid high-level audits against the MSC Standard—to scores from full MSC audits were compared.

Rasal, J., Melnychuk, M. C., Lejbowicz, A., Montero-Castaño, C., Ferber, S., & Longo, C. (2023).

JOURNAL

Environmental Research

Quantitative risk ranking of mycotoxins in milk under climate change scenarios

This research aimed to rank emerging and existing mycotoxins under different climate change scenarios based on their occurrence in milk and their toxicity to humans.

Chhaya, R. S., Nag, R., & Cummins, E. (2024).

ARTICLE

Cadmus EUI

Impacts of climate change on global agri-food trade

Climate change and trade are closely related. Climate may alter the comparative advantages across countries, which may in turn trigger changes in trade patterns.

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Trade itself may constitute an adaptation strategy, moving excesses of agri-food supply to regions with shortages, and this in turn may explain changes in land-use. This article investigates these linkages, showing that the changes in climate affect counties' trade value and contribute to reshaping trade patterns.
Bozzola, M. (2023).

ARTICLE

ATTRA

Study Shows Diverse Crops Help Plants Thrive

University of Kansas researchers published a study in the journal Nature Communications that shows crop diversity can help boost yields by preventing soil pathogens from thriving.

ARTICLE

The International Journal of Logistics Management

Learning from Habermas and Machiavelli: a thought experiment in supply chain management

The purpose of this paper is to show the benefits of bridging the gap between supply chain management (SCM) and political philosophy to challenge the underlying assumptions about SCM concepts and open doors to novel theory building.
Bille, A. (2024).

Reports

PRESS RELEASE

Council of the EU

Council adopts Farm Sustainability Data Network regulation

The aim of the newly adopted regulation is to improve the sustainability of the EU's food systems through an enhanced data collection process that takes into account environmental and social data, along with the economic data already collected via the Farm Accountancy Data Network (FADN).

REPORT

EFUA

Urban Agriculture Benefits Portfolio

This benefit portfolio presents the five main benefit categories which address the needs and demands of citizens, to shape policy recommendations and promote different types of UA initiatives.

REPORT

Planet Tracker

In hot water

In this investigation of one of the most nature-dependent industries on earth1, Planet Tracker reveals who controls the fate of one of the most biodiverse waters in the world, and demonstrates that the few companies who are doing good relative to the others are also doing well.
Wang, F., Mosnier, F. (2023).

REPORT

WBCSD

The Case for Beyond-Value-Chain Actions

Dive into practical approaches and compelling reasons for businesses to adopt beyond-value-chain actions (BVCA). Discover the urgency behind BVCA as a vital strategy to address climate change, biodiversity loss, and rising inequality.

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REPORT
Refed

Reducing food loss & waste
Altogether, this Roadmap outlines more than $300 million in philanthropic investments ready today to reduce FLW.

POLICY BRIEF
TP Organics

Organic and agroecological farming: Safeguarding long-term food security
This brief mainly focuses on food accessibility and stability. Food utilisation, which determines the nutritional status, is not considered here, with diets generally providing sufficient energy in terms of calories and essential nutrients and only 2% of Europeans being undernourished.
Gernet, M., Segarra Valenzuela, M., Moeskops, B.

REPORT
ICC

Proposals for effective carbon pricing Leakage and linkage considerations
As part of this plan for action, focus is shifting to implementing and enforcing effective, enabling policies and solutions.

REPORT
UNEP

What's Cooking? An assessment of potential impacts of selected novel alternatives to conventional animal products
This special issue of the Frontiers Report focuses on the potential environmental, health, social and animal welfare implications of the uptake of novel meat and dairy alternatives, in particular novel plant-based, fermentation-derived and cultivated products.

REPORT
Research4
Commitees

Workshop on the European Green Deal – Challenges and opportunities for EU fisheries and aquaculture: Part II: Marine biodiversity aspects
This study aims to provide an overview of the impacts, challenges and opportunities for the European Union (EU) fisheries and aquaculture sectors created by the European Green Deal (EGD) regarding marine biodiversity.

REPORT
MSCI

An Investor's Guide to Biodiversity Risks and Impacts
This guide, its checklist and Nature and Biodiversity Metrics Framework are designed to help investors start identifying which questions to ask and which metrics to consider as they begin incorporating biodiversity into their investment process.

REPORT
FAO

Methane emissions in livestock and rice systems
This FAO report comprehensively addresses methane emissions in agriculture and their impact on global greenhouse gas levels. By analysing sources, sinks, quantification methods, and mitigation strategies, this publication highlights

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challenges and opportunities to reduce methane emissions from livestock and rice production systems.

REPORT

WWF

WHAT'S IN STORE FOR THE PLANET: THE IMPACT OF UK SHOPPING BASKETS ON CLIMATE & NATURE – 2023

What's in Store for the Planet 2023 provides an overview of progress towards meeting WWF's target of halving the environmental impact of UK shopping baskets by 2030.

REPORT

Water for Food

FY 2023 Annual Report

The Daugherty Water for Food Global Institute conducts and supports research and engages in projects to develop innovative solutions for achieving water and food security at home in Nebraska and around the world.

REPORT

Global Reporting

Interoperability considerations for GHG emissions when applying GRI Standards and ISSB Standards

This document illustrates the areas of interoperability between GRI 305: Emissions 2016 (GRI 305) and IFRS S2 Climate-related Disclosures (IFRS S2) that a company should consider when measuring and disclosing Scope 1, Scope 2 and Scope 3 greenhouse gas (GHG) emissions in accordance with both Standards.

ARTICLE

Rikolto

Long read: the road towards living incomes and thriving cocoa farming communities asks for a sustainable food systems approach

Among chocolate companies, the consensus is growing that living incomes for farmers hold the key to solving these challenges. Investments in sustainable production, forest conservation and eliminating child labour can only be done when farmer households have an income that allows them to live a decent life, in the first place, and enough room to make investments in their farms, in the second place.

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Publications

ARTICLE

Agroknow

WUR

Survival analysis as a risk stratification tool for threshold exceedance forecasting

This study presents a novel framework designed for predicting threshold exceedance in time series data through the use of survival analysis techniques. Contrasting the traditional binary classification methodologies typically applied to this problem, our approach offers a unique perspective, modeling and predicting not only the occurrence but also the time-to-event information.

Marinos, G., Karvounis, M., Athanasiadis, I.,

ARTICLE

Npj Digital Medicine

Systematic review and meta-analysis of the effectiveness of chatbots on lifestyle behaviours

The purpose of this systematic review and meta-analysis was to evaluate the efficacy of chatbot interventions designed to improve physical activity, diet and sleep.

Singh, B., Olds, T., Brinsley, J., Dumuid, D., Virgara, R., Matricciani, L., Watson, A., Szeto, K., Eglitis, E., Miatke, A., Simpson, C. E. M., Vandelanotte, C., & Maher, C. (2023).

ARTICLE

Food Unfolded

How Will AI Shape Our Food Systems of the Future?

Artificial intelligence (AI) has become an important part of our daily lives. Beyond chatbots and self-driving cars, AI is making significant strides in the agrifood industry. Find out how AI could reshape the entire food chain

Tempelaere, A. (2023).

ARTICLE

LinkedIn Articles

Digital Transition in Sustainable Food Systems – Policy Support

Digital technologies and data are there to stay in agriculture. They have, and will have, an increasingly larger impact on the way our food - and other agricultural produce - is being produced. While in the past new technologies were mainly targeting higher production levels, the challenge for digital technologies and data is also to do this in a sustainable way.

Wolfer, S. (2023).

ARTICLE

Government Information Quarterly

Identifying patterns and recommendations of and for sustainable open data initiatives: A benchmarking-driven analysis of open government data initiatives among European countries

This paper focuses on benchmarking of open data initiatives over the years and attempts to identify patterns observed among European countries that could

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lead to disparities in the development, growth, and sustainability of open data ecosystems.
Lněnička, M., Nikiforova, A., Luterek, M., Milić, P., Rudmark, D., Neumaier, S., Santoro, C., Flores, C. C., Janssen, M., & Bolívar, M. P. R. (2024).

ARTICLE

Lexxion

Lifting the Veil of Maya: Access to Documents Held by Public Authorities and Commercial Information in the US and EU

With a comparative view, this article casts the light on the right to access to documents both in the US and in the EU.
Planchenstainer, F. (2023).

ARTICLE

Computer Law & Security Review

Horizontal intervention, sectoral challenges: Evaluating the data act's impact on agricultural data access puzzle in the emerging digital agriculture sector

This paper aims to map the prominent data access problems in this emerging sector, explain the needed solutions for the sectoral challenges, demonstrate what the Data Act brings, and discuss to what extent this horizontal framework is helpful to overcome the sectoral problems connected to the ambiguities on agricultural data access.
Atik, C. (2023).

ARTICLE

International Journal of Production Economics

Alliances and digital transformation are crucial for benefiting from dynamic supply chain capabilities during times of crisis: A multi-methos study

This framework highlights key enablers such as alliance management capability, digital transformation, supply chain agility, and supply chain adaptability that are essential for organisational performance.
Dubey, R., Bryde, D., Blome, C., Dwivedi, Y. K., Childe, S. J., & Foropon, C. (2024).

Reports

REPORT

FAO

Case studies of the use of agricultural biotechnologies to meet the needs of smallholders in developing countries

This document synthesizes a unique series of 15 case studies where agricultural biotechnologies were used to serve the needs of smallholders in developing countries.
Ruane, J., Mba, C., Boettcher, P., Koskela, J., Mair, G., Ramasamy, S.

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Publications

PAPER

Food Hub

Food systems: a story of transformation

This position paper has been created to share with you a systems thinking perspective on the evolution of our food systems. The paper is crafted as a narrative to illuminate the broader changes taking place in the world; the challenges these changes are creating for conventional approaches; the kinds of changes we believe need to come about in our food systems; finally a vision of what an approach to designing and managing food systems that was inspired and guided by systems thinking might look like

REPORT

IIGCC

Investing in climate solutions: listed equity and corporate fixed income

This document provides guidance for investors utilising the Net Zero Investment Framework (NZIF) or other net zero target setting methodologies to meet their own voluntary net zero commitments through increasing allocation to climate solutions.

ARTICLE

The Lancet

Understanding the use of media analysis in public health research through food tax debates (HEALTHEI Project): a scoping review

To better understand food tax debates and the use of media analysis in public health research, a scoping review of media analyses using food taxes as a case study was conducted.
Cisneros, A. B., Headings, R., Wells, R. O., Reynolds, C., Vogel, C., & Breeze, P. (2023).

ARTICLE

Bocconi University Press

Standing up for the planet

This project approaches the sustainability challenge from a unique perspective, offering real-life examples of the leadership and impact of remarkable women who are changing the rules of the game in their respective industries and fields.
Pagano, F., Zerbini, L.

ARTICLE

Food Policy

Why do people accept or reject climate policies targeting food consumption? Unpacking justifications in the public debate in online social forums

The aim of this paper is to understand why people accept or oppose regulations by analyzing the public debate concerning *meat-free days in school canteens* and *a tax on meat* in two public online social forums in Sweden.
Bendz, A., Bäckstedt, F., Harring, N., & Persson, M. (2023).

ARTICLE

JRC Publications Repository

Agro-economic-environmental modelling in the context of the Green Deal and sustainable food systems.

The Integrated Modelling Platform for Agro-economic Commodity and Policy Analysis (iMAP) provides in-house policy support to the European Commission by

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assessing a wide range of policies and topics related to sustainable food systems (SFS).
Fellmann, T.

ARTICLE
Land

Toward Evidence-Based Local Food Policy: An Agroecological Assessment of Urban Agriculture in Rome
The purpose of this paper is to strengthen the relationship between vulnerabilities of global supply chains and, consequently, a profound need for food system transformation paradigms by proposing agroecological assessment as a tool for formulating evidence-based local food policies.
Marino, D., Curcio, F., Felici, F. B., & Mazzocchi, G. (2023).

ARTICLE
Nature Food

The state of food systems worldwide in the countdown to 2030
This Analysis presents a recently developed food system indicator framework and holistic monitoring architecture to track food system transformation towards global development, health and sustainability goals.
Schneider, K., Fanzo, J., Haddad, L., Herrero, M., Moncayo, J. R., Herforth, A., Remans, R., Guarín, A., Resnick, D., Covic, N., Béné, C., Cattaneo, A., Aburto, N., Ambikapathi, R., Aytekin, D., Barquera, S., Battersby, J., Beal, T., Molina, P. B., Wiebe, K. (2023).

ARTICLE
Globalization and Health

The development of a method for the global health community to assess the proportion of food and beverage companies' sales that are derived from unhealthy foods
The aim of this study was to develop a method to quantify the proportion of sales from food and beverage companies that are derived from unhealthy foods to support organizations in determining which companies might be considered high-risk for engagement.
Bandy, L., Jewell, J., Luick, M., Rayner, M., Li, Y., Shats, K., Jebb, S., Chang, S., & Dunford, E. (2023).

PAPER
Springer e-Books

The Transition Steps Needed to Transform Our Food Systems
This chapter chalks out a practical plan for specific transition steps needed for the transformation of food systems. It lays out steps that can be taken at the international level, by national governments, civil societies, companies operating in the food system, and donors.
Webb, P., Flynn, D., Kelly, N., & Thomas, S. M. (2023).

Reports

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REPORT
FAO

The State of Food and Agriculture 2023

The State of Food and Agriculture 2023 looks into the true cost of food for sustainable agrifood systems. The report introduces the concept of hidden environmental, health and social costs and benefits of agrifood systems and proposes an approach – true cost accounting (TCA) – to assess them.

REPORT
iPES Food

From plate to plate

'From Plate to Planet' shows how local governments are pioneering policies on food and climate change through dozens of inspiring examples on the ground, including promoting healthy and sustainable diets, reducing food waste, shortening food chains, training organic farmers, and ensuring all residents can access healthy and sustainable food.

REPORT
WBA

2023 Food and Agriculture Benchmark Investor Guidance

WBA's Food and Agriculture Benchmark tracks and measures the extent to which companies are contributing to healthier, more sustainable and equitable food systems.

REPORT
ATNI

Investor Expectations on Nutrition, Diets & Health

This document sets out four Investor Expectations related to corporate governance, strategy, lobbying and transparency for food and beverage manufacturers and retailers.

HANDBOOK
OECD-FAO

OECD-FAO Business Handbook on Deforestation and Due Diligence in Agricultural Supply Chains

This handbook was developed by OECD and FAO to help companies embed considerations on deforestation and forest degradation into their corporate due diligence procedures.

REPORT
FAO

Food Outlook: Biannual Report on Global Food Markets

FAO's latest forecasts point to favourable production outlooks across most basic foodstuffs. However, global food production systems remain vulnerable to risks from extreme weather events, rising geopolitical tensions and policy changes, potentially tipping the delicate demand-supply balances and dampening prospects for international trade in food commodities and global food security

REPORT
EEA

Cross-agency knowledge for One Health action

Addressing threats to health and well-being requires implementing a One Health approach, recognising the interdependence of people, animals, plants and ecosystems. In this statement, the European Centre for Disease Prevention and Control (ECDC), European Chemicals Agency (ECHA), European Environment

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Agency (EEA), European Food Safety Authority (EFSA) and European Medicines Agency (EMA) express their joint commitment as EU agencies to fully support the One Health agenda in Europe.

REPORT

UNDP

Working with Power in Multi-Stakeholder Processes

As part of the 3rd cycle of the UNDP Co-inquiry on food systems transformation, between June and November 2022, four participatory dialogue sessions were conducted to identify key questions, challenges, and potential solutions in relation to this question: "How can we work more systemically to accelerate progress towards a more sustainable food system?". This report gathers their conclusions.

REPORT

World Bank

Digital-in-Health: Unlocking the Value for Everyone

The World Bank's report, Digital-in-Health: Unlocking the Value for Everyone, calls for a new digital-in-health approach where digital technology and data are infused into every aspect of health systems management and health service delivery for better health outcomes. The report proposes ten recommendations across three priority areas for governments to invest in: prioritize, connect and scale.

REPORT

The Food Foundation

The State of the Nation's Food Industry report 2023

The State of the Nation's Food Industry report shines a light on the major retailers and Out of Home businesses within the UK and what steps, if any, they are taking to help us shift towards a more healthy and sustainable diet.

REPORT

IFPRI

IFPRI research and engagement: Climate change and agrifood systems

Climate change poses an unprecedented challenges to the world's food systems, to food security and nutrition, and to livelihoods. IFPRI's research and engagement on this vital issue focus on providing foresight and analysis on climate change impacts and policy responses; testing and scaling solutions; and helping to create an enabling environment to facilitate food system transformation that addresses mitigation, adaptation, sustainability, and inclusion.

REPORT

WBGU

Healthy living on a healthy planet

The vision of healthy living on a healthy planet focuses on the inseparability of human health and nature, and thus on an extended understanding of health.

REPORT

EC

Food 2030

This publication provides an update on the European Commission's Food 2030 initiative and is meant to guide future research and innovation policy reflections related to Horizon Europe, the farm-to-fork strategy, the European Green Deal and beyond.

Funded by the European Union

REPORT

Global Goals Yearbook

Sustainable Impact Matters

The Global Goals Yearbook is a publication in support of the Sustainable Development Goals (SDG) and the advancement of corporate sustainability globally. As an independent grassroots publication it offers proactive and in-depth information on key sustainability issues and promotes unique and comprehensive knowledge-exchange and learning in the spirit of the SDGs and the Ten Principles of the Global Compact.

REPORT

FAO

Achieving SDG2 without breaching the 1.5C threshold: A Global Roadmap

This 2023 report emphasizes existing efforts and climate commitments, detailing an integrated approach for a just transition, outlining food security, nutrition objectives, and their emission implications. Additionally, it introduces ten domains of actions, and 20 key milestones.

REPORT

GAIN/ FAO

The food systems countdown report 2023

The Food Systems Countdown Initiative aims to monitor the state of food systems transformation through relevant data, independent of any established monitoring processes.

REPORT

IEEP

European Green Deal Barometer

The third edition of the European Green Deal Barometer continues to track the barriers to and opportunities for the implementation of the Green Deal, with particular focus on the political trends that may impede that progress, given the upcoming 2024 European elections. In addition to this, this edition of the Barometer also takes a closer look at the social provision aspects of the EGD, and at perceptions of its impact on non-European countries.

ARTICLE

UNEP

After COP28, questions remain for communities struggling with climate change

In the week since the UN Climate Change Conference (COP28) came to an end, a cyclone slammed into Australia, torrential rains pelted the United States of America and a punishing drought continued to decimate crops in Zimbabwe. These disasters are a reminder, say experts, that while progress was made at COP28, not nearly enough financing has been devoted to helping communities adapt to extreme weather, which is expected to become more common as the Earth's climate changes.

REPORT

Digital Food Lab

FOODTECH TRENDS IN 2024

This is the fourth edition of this report on trends shaping the future of food. Each year, DigitalFoodLab gathers all their knowledge on innovation all along the food supply chain, from seeds to food products to grocery stores to health.

REPORT

Paris Pact Payoff

Funded by the European Union

Climate Action Europe

This report brings further evidence that transitioning to a climate neutral society along a 1.5°C global warming compatible pathway is not only necessary, but also beneficial in economic terms.

REPORT

ESABCC

Scientific advice for the determination of an EU-wide 2040 climate target and a greenhouse gas budget for 2030–2050

In this report, the European Scientific Advisory Board on Climate Change provides EU institutions with a science-based estimate of a 2040 climate target and an EU greenhouse gas emissions budget for the period 2030-2050.

REPORT

UN Habitat

Our City Plans: An Incremental and Participatory Toolbox for Urban Planning

A global toolbox to support local governments and urban actors in small and intermediate cities to implement and customise inclusive urban planning processes

REPORT

FSEC

The Economics of the Food System Transformation

The report summarizes the findings of an four-year investigation by the Food System Economics Commission (FSEC), an independent commission expressly created to assess options for comprehensive food system transformation.

Funded by the European Union