SecureFood

An integrated approach to enhance food systems resilience, advocating for food security and uninterrupted food supply.

CONTACT US

MEDIA ENQUIRIES

Benjamin Moore

EU Project Manager

Carr Communications

24 Fitzwilliam Place, Dublin 2, D02 T296, Ireland

bmoore@carrcommunications.ie

TECHNICAL ENQUIRIES

Vassilis Sakas

Project Coordinator

European Dynamics Luxembourg SA (ED)

12, Jean Engling str.

L-1466 Luxembourg

vassilis.sakas@eurodyn.com
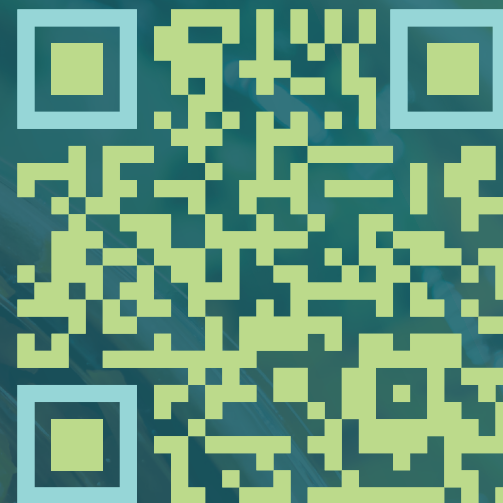
🌐 secure-food.eu　　🐦 @SecureFoodEU

in SecureFood　　▶ SecureFood

Scan for more information on the SecureFood Project

WHAT IS SECUREFOOD?

SecureFood is an **EU-funded Horizon Europe project** designed to **enhance food supply chain resilience** using advanced digital tools.

Launched in **January 2024** with **€8 million in funding**, the project leverages **AI, blockchain, IoT, and data analytics** to predict and mitigate disruptions.

MISSION

SecureFood aims to strengthen food security and resilience across Europe by combining scientific knowledge, collaborative governance, and cutting-edge digital tools.
By identifying risks and enhancing the adaptability of food systems, the project supports a smarter, more sustainable, and disruption-ready food supply chain.

KEY FOCUS AREAS

PREDICTING AND MITIGATING SUPPLY CHAIN RISKS

SecureFood uses AI and big data analytics to identify vulnerabilities in food production, distribution, and logistics. By analysing trends such as climate patterns, transportation delays, and market fluctuations, the project helps stakeholders anticipate potential disruptions and take proactive measures.

IMPROVING FOOD SYSTEM TRANSPARENCY & TRACEABILITY

Blockchain technology is integrated to create a secure, tamper-proof record of food supply movements. This ensures that stakeholders - from farmers to retailers - have access to verifiable information on food origins, quality, and safety, increasing consumer trust and reducing waste.

ENHANCING COLLABORATION AMONG STAKEHOLDERS

SecureFood fosters partnerships between policymakers, industry leaders, farmers, and researchers to create a holistic, resilient food system.

Through its Resilience Governance Framework, the project ensures that all actors work together effectively to maintain food security and sustainability.

HOW DOES SECUREFOOD WORK?

AI & Data Analytics – Predicting and Preventing Disruptions

SecureFood employs advanced AI models and big data analytics to analyse multiple sources of information, including weather forecasts, crop yields, market trends, and transportation logistics. These predictive tools help stakeholders detect potential disruptions before they occur, enabling proactive decision-making. By identifying supply chain vulnerabilities early, SecureFood supports more efficient resource allocation, waste reduction, and food security planning.

Blockchain for Transparency & Traceability

A resilient food system requires full transparency at every stage—from production to distribution. SecureFood integrates blockchain technology to create an immutable, tamper-proof ledger of food supply movements. This ensures that farmers, distributors, retailers, and regulators can access real-time, verifiable data on food origins, safety standards, and sustainability practices. By improving traceability, SecureFood strengthens consumer trust, helps combat food fraud, and enables rapid responses to contamination or recalls.

Digital Twins – Simulating & Strengthening Supply Chains

SecureFood develops digital twins, which are virtual models of real-world food supply chain operations. These simulations allow stakeholders to test different scenarios—such as extreme weather events, logistical delays, or trade disruptions—and evaluate the best response strategies before a crisis occurs. By leveraging digital twins, policymakers and industry leaders can make data-driven decisions to increase resilience, optimize food distribution, and minimize losses.

IoT & Smart Sensors – Empowering Decisions Across the Food Supply Chain

SecureFood enhances decision-making by transforming real-world data into actionable insights for food supply stakeholders. It enables early risk detection, supports adaptive planning through intelligent route optimisation, and reduces food loss via structured waste analysis. By making real-world data actionable, it supports smarter planning, faster crisis response, reduced losses, and ultimately, a more resilient and efficient food supply chain. This not only safeguards food security but also strengthens trust, coordination, and long-term sustainability across the entire food system