AT A GLANCE

DEFENSEFOOD aims to strengthen Europe's food supply chain against chemical, biological, and radiological (CBR) threats.

It will develop advanced detection tools, preparedness protocols, and recovery strategies, combining scientific research with innovative technologies, and past crisis-response experience.

The project's goal is to safeguard public health, ensure food security, and contribute to the overall resilience of the food sector.

WHO WILL BENEFIT

- Policymakers
- Law Enforcement and Security Agencies
- Feed, Food, and Agribusiness Industry
- First Responders and Emergency Services
- Academia and Research
- Technology Providers
- Environmental and Climate Change Experts
- Consumers and Public Health Advocates

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DEFENSEFOOD

Detection and Enhanced Food Safety and Security

through Efficient Networks for Supply Chain Enhancement

Funded by the European Union

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APPROACH

PREDICT | DETECT | ADAPT | PROTECT

DEFENSEFOOD employs a multi-disciplinary research methodology to address the complex challenges of CBR threats in food systems.

The project will establish resilience across the food chain by leveraging predictive and simulation models, state-of-the-art detection technologies, effective response and recovery protocols, social science methodologies, knowledge management, and multi-stakeholder capacity building.

USE CASES

Cereals
A key part of food systems in Europe and worldwide, playing a vital role across production and supply chains.

Shellfish
Particularly vulnerable to chemical and biological contamination, with high food safety relevance and importance in international trade.

Water
Essential to food production, with cross-sectoral importance for the resilience and proper functioning of multiple food chains.

HOW WE WILL ACHIEVE OUR GOALS

MAIN OBJECTIVES

The project's main objectives are structured around six points:

01 Adapt and develop a novel, AI-driven, evidence-based scanning dashboard to anticipate changes in the food system environment

02 Develop rapid detection methods, integrating novel targeted and untargeted analysis tools and leveraging monitoring systems

03 Identify, develop, and test methodologies for reducing the impact of CBR threats on the food supply chain

04 Optimise coordination among EU and international security authorities, improving cross-border response mechanisms

05 Create knowledge management and decision-support tools to enable early detection, impact reduction and fast recovery of the supply chain from food contamination crises

06 Improve awareness and preparedness of food system actors (mainly authorities and SMEs) to CBR threats

Defending Food Systems
through **Science** & **Innovation**