AT A GLANCE

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

It will develop advanced detection tools, preparedness protocols, and recovery strategies, combining scientific research, innovative technologies, and insights from crises.

The project's goal is to safeguard public health, ensure food security, and support economic stability.

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.

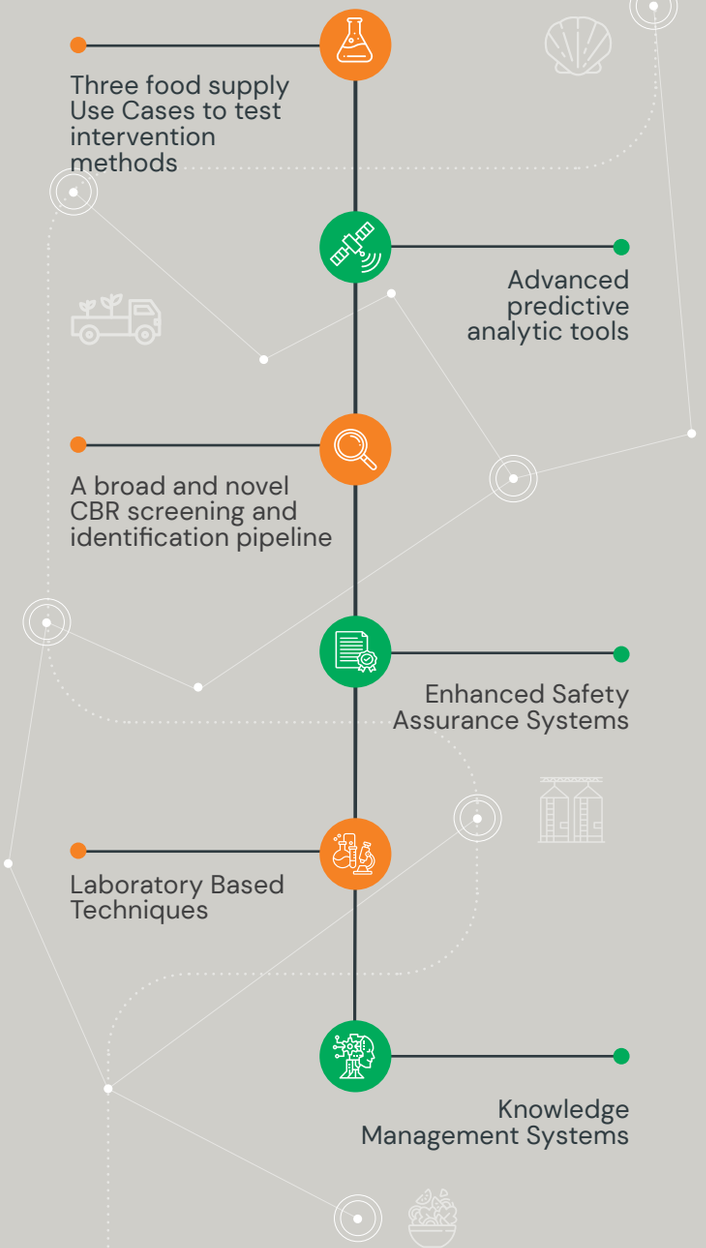
USE CASES

Shellfish
Significant public health impact, high vulnerability to chemical and biological threats, and importance in international trade.

Cereals
Global importance and susceptibility to biological threats and potential radiological contamination.

Water
Central role in food production, high risk from contamination, and potential cross-sector impact on 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**