

## MISSION

Our mission is to support EU's global leadership in the digital-led industry transition from reaction to food risk prevention.

# PREVENT FOOD RISKS BEFORE THEY HAPPEN

## EFRA OBJECTIVES

**Enhance** Food risk data discovery and refinement with minimal delay.

**Create** an optimized risk prevention system accessible, usable, efficient, and safe for everyone.

**Develop** trustworthy, accurate, green and fair AI system for food risk prevention.

**Accelerate** innovation for food risk data discovery, collection, mining, filtering, and processing towards maximum performance and usefulness.

Technological **integration** (big data, IoT, HPC, AI) and cohesion with data innovators in the food supply chain.

**Strengthen** the European ecosystem (public and private stakeholders) with EFRA's innovative solutions to ensure Food safety and quality.

Coordinated by:  **Agroknow**

### Consortium:

  
**Consiglio Nazionale  
delle Ricerche**

 **Stockholm  
University**

 **WAGENINGEN  
UNIVERSITY & RESEARCH**

**maize.**

 **AGRIVI**

  
**RAINNO**  
INNOVATION RAINMAKERS

**SGS DIGICOMPLY**  
Dynamic Intelligence, Effective Risk Management

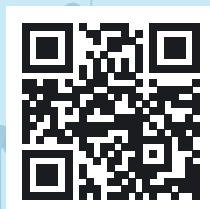
  
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 **EFRA**  
EXTREME FOOD RISK ANALYTICS

# TRANSFORMING FOOD RISK PREDICTION WITH AI-POWERED ANALYTICS

The first operational  
**data and analytics platform**  
dedicated to  
**food safety risk prevention**  
in Europe.

**efraproject.eu**



Funded by  
the European Union



## DATA HUB

Intelligent crawlers and modules able to search, mine, process, annotate, and link dispersed, multilingual, heterogeneous, and deep/hidden food safety data sources.



## ANALYTICS POWERHOUSE

Data Driven AI-trained models for Food Risk analysis and prediction running on a HPC green cloud.



## DATA & ANALYTICS MARKETPLACE

A front-facing user-friendly web app to discover, purchase/use, and contribute with raw data, AI models, and analytics modules, where users can engage and trade.



### OPEN FOOD INTELLIGENCE NETWORK

Bring together public & private stakeholders in emerging food risk prediction & mitigation

Explore the unique challenges of adopting AI-enabled food risk predictions



### FOCUS GROUPS WITH FIELD EXPERTS

## REAL-WORLD USE CASES

Deploy, demonstrate and validate the EFRA platform and tools through direct feedback from **real-world scenarios** and domain experts to support:

Pathogen Risk prevention in the poultry industry



Pesticide Use Optimization for farms in 3 EU countries

Reduction of computational energy & resources. Enhancement of the digital data food risk economy and **Food Safety Regulatory Decisions**



## EXPECTED RESULTS

01

Innovative extreme data mining and analysis methods and tools

02

Data analytics and AI Prediction Models

03

EFRA Green Data and Analytics Infrastructure

04

Open Food Intelligence Network for public and private stakeholders

05

Customized business models for each use case

