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

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 (reducing computational energy & resources) 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.

DATA HUB

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

EFRA
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Platform

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

FOCUS GROUPS WITH FIELD EXPERTS

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

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:

Risk predictions for poultry pathogens

Enhanced predictive capabilities for pest alarms

Mycotoxins in animal feed and effects on animal production

Informing **regulatory decisions** with food risk intelligence

EXPECTED RESULTS

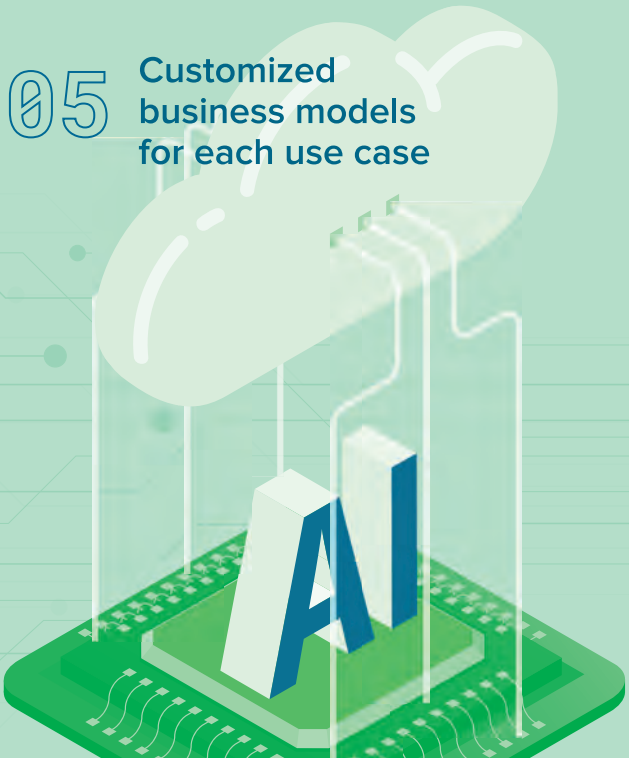
01 Innovative extreme data mining and analysis methods and tools

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



Coordinated by: Agroknow

Consortium:

Consiglio Nazionale delle Ricerche

Stockholm University

WAGENINGEN UNIVERSITY & RESEARCH

JAKALA TOGETHER TO GET THERE

AGRIVI

RAINNO INNOVATION RAINMAKERS

SGS DIGICOMPLY Dynamic Intelligence, Effective Risk Management

Moy park

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