



Development and implementation of a tool for Data Capture @ Point of Sampling

GP/EFSA/ENREL/2022/03 – TAILOR MADE ACTIVITIES

62nd FP plenary meeting

24/09/2026

Risk Assessment - Innovation



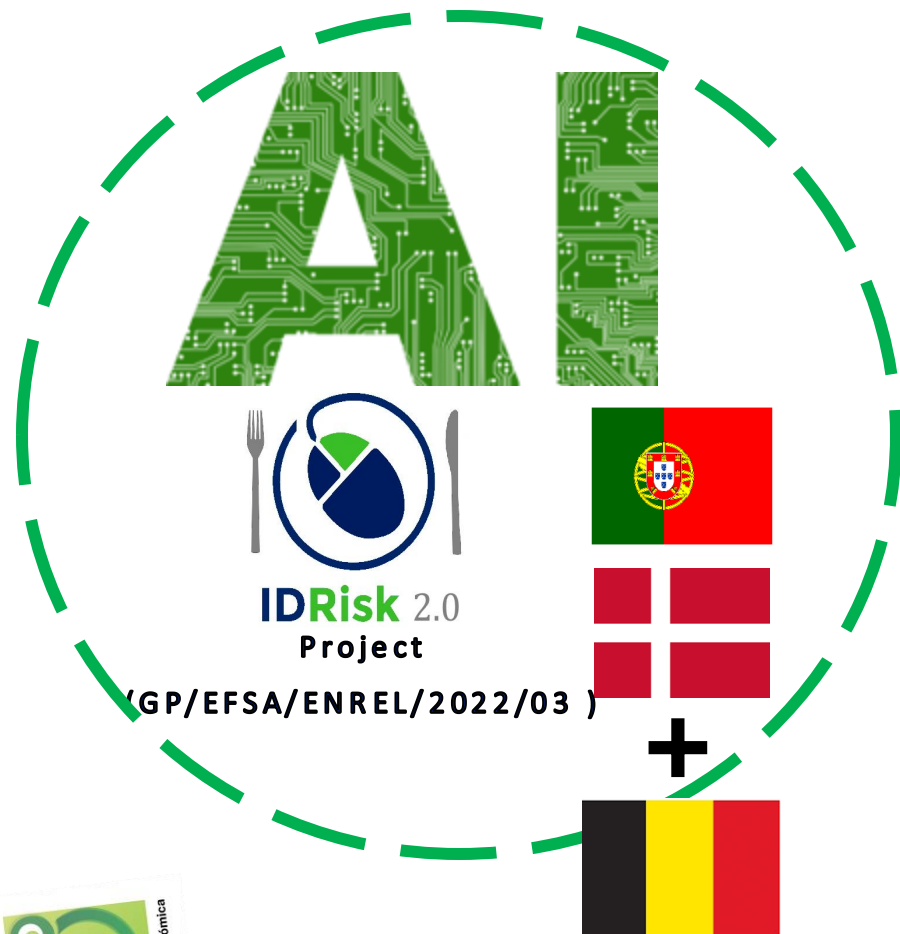
- **Data Quality Improvement** – Focused on improving the quality and standardization of data from official controls for risk assessment purposes;
- **Interoperability** – Alignment with European Standards, specifically the SSD2 (Standard Sample Description) and FoodEx2 classification systems;
- **Assisted Encoding Tool** – Development of a digital tool to assist inspectors in encoding food sampling data, reducing errors and improving precision.



Data Capture @ Point of Sampling Tool

- **International Collaboration** – Implement a tailored data capture tool to foster cooperation between Portugal, Denmark and Belgium;
- **EFSA Standardization** – Prepare data from sampling point to **SSD2** (Standard Sample Description) format and **FoodEx2** classification;
- **Form Customization** – Create concise digital forms for partner's operational needs;
- **Quality and Speed** – Reduce manual work and errors and increase completeness and timeliness in real-time data collection – using AI





IDRISK2
From Sampling to Insight

AI-assisted data capture and FoodEx2 coding for food safety inspection

Plan Visit → Capture Samples → AI-assisted FoodEx2 Coding → Review and Complete → Generate Reports

Enter IDRISK2 >

Select your language
English Portuguese Dansk Nederlands Spanish Français German

FoodEx2 A07AA
FoodEx2 A04BF
FoodEx2 A08BX

Better data
Rich, structured and evidence-based information

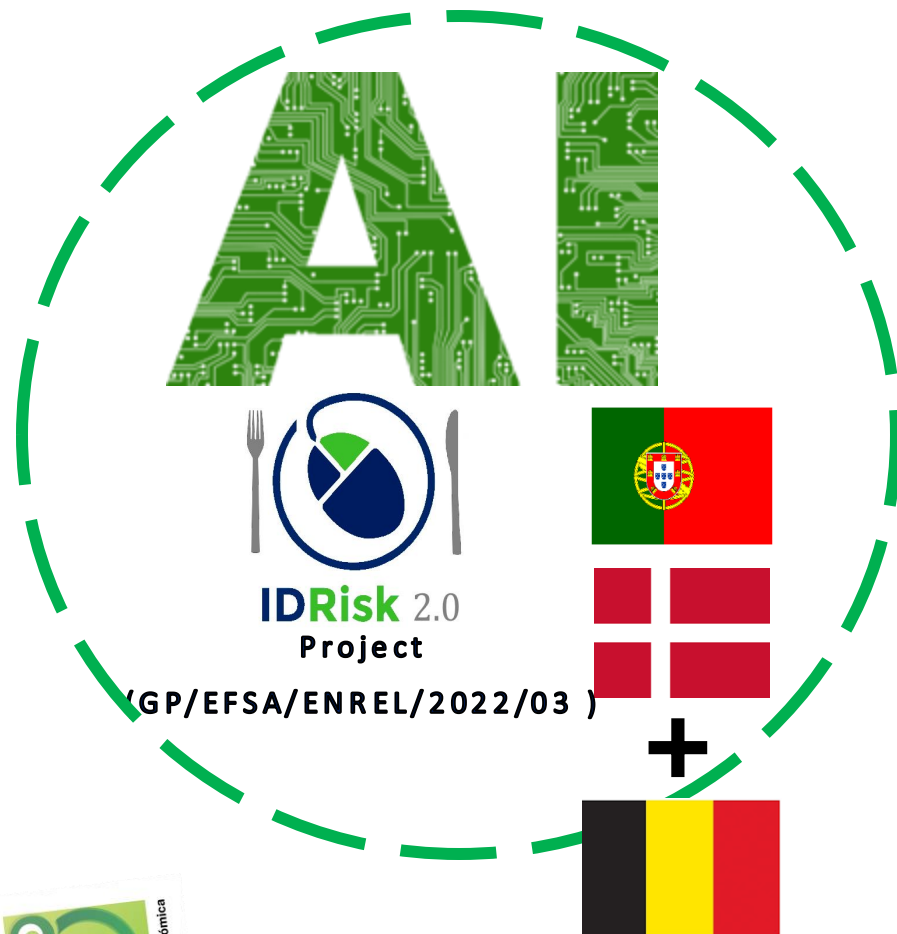
Faster inspections
More efficient and consistent workflows

Safer food
Stronger risk assessment and prevention

Greater transparency
From field data to trusted food safety decisions

Co-funded by the European Union

ASAE
LIACC
PORTO
DTU
Danish Veterinary and Food Administration
EFSA
EUROPEAN FOOD SAFETY AUTHORITY



IDRISK2 Project - Development and Implementation of a Tool for Data Capture @ Point of Sampling

Logos: IDRisk2, EFSA, ASAE, LIACC, POKET, DTU, Danish Veterinary and Food Administration, favv.

Admin (UPorto) Credits: 991 Logout

Visit Samples Samples Organization UPorto Language: English Settings Full interface Exit full screen Administration Your visit Layout Horizontal Analyses

Visit and operator

Date of visit: 09/15/2026 Name of sample: Adria Business / enterprise identifier: Establishment identifier:

Address: 123456789

Find nearby (500m)

Name: Fener Establishment type: Restaurant Address: Fener Caddesi 23, 34149 Bakirkoy, Turkey Postal code: 34149 Municipality: Bakirkoy Economic operator type: 3. Food service

Voice note Find from notes

Location notes (voice or text): Type an address (location details, e.g., 12345 Avenue)

Use current GPS Lat: 40.960045 Lon: 28.838030

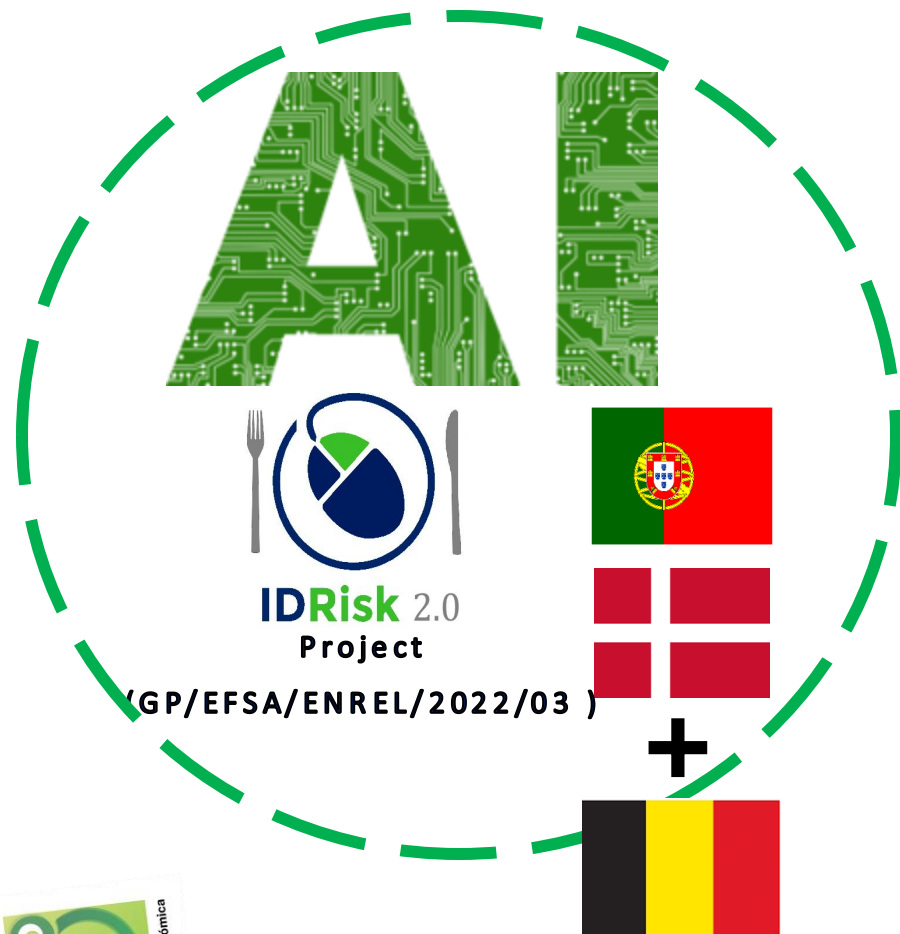
Geotag (check) Lat: 40.960045 Lon: 28.838030

Map showing location in Istanbul, Turkey. Landmarks include Fener Caddesi, Yedigöller Mahallesi, and various businesses like Marmara Fish Restaurant and Marmara Fish Restaurant.

Select zoom level or click map to set location: Very close Close Far +

Create PDF report Create JSON report Create CSV report

Play music



IDRisk2 Project - Development and Implementation of a Tool for Data Capture @ Point of Sampling

Logos: IDRisk2, EFSA, ASAE, LIACC, U.PORTO, DTU, Danish Veterinary and Food Administration, favv, Admire (U.Porto)

Navigation: Visit, Samples, #2 ADICR - LAR, Organization, U.Porto, Language: English, Settings, Full interface, Exit full screen, Administration, Your samples, Logout, Information, Analyses

Photographs 1-5

Add photos | Take photo | Live preview

Voice note destination: Sample voice notes | Voice note

Sample details

Sample name: LARANJA VALENCIA | Responsible organization: | Production: oranges/sweet | Distribution: at importer

Origin (Country): | Brand: | Expiry date: YYYY-MM-DD

Production date: YYYY-MM-DD | Time of Collection: 2026-09-15 18:53 | Batch/Lot: | Unprocessed: if not visible

Main ingredients: | Main ingredients and percentages, if available

Sample identification and storage

Official sample number: | Date type (date entered above): Not specified | Measured sample temperature (°C): |

Storage conditions: Not specified

Enter the sample number and measured temperature manually. Upload barcode, thermometer or receipt photographs using the photo controls above.

Sampling data

Control plan line: | Plant / animal identification: | Batch size: |

Sample quantity (include unit): | Purchase price (include currency): | Price: Not specified

Sampling: | Identify FoodEx2 | Evidence | Save & next sample

FoodEx2 results

1) FoodEx2 code (base + facet): AB1CRWF03.AB6H75F18.AB7NK
Oranges, sweet + whole/unsplit form, including artificial forms + Bag, sack or pouch

2) Image - FoodEx2-focused description: Whole Valencia oranges sold in a red mesh bag.

3) Image - Detailed description: Several orange-colored whole citrus fruits are visible, with a paper label attached to the mesh packaging.

4) Code parts and facets - explanation: AB1CR - Oranges, sweet
F03.AB6H75 - Whole/unsplit form, including artificial forms
F18.AB7NK - Bag, sack or pouch

5) RAG grounded evidence: Catalogue 17.2 (reporting hierarchy).
https://raw.githubusercontent.com/openefsa/efsa-catalogues/478782fd7948356a9165ab99690b3f64c2145ae/ecf_catalogues/RTX.ecf

Base code confidence: Evidence-supported candidate; expert review pending

Facet confidence: Catalogue constraints checked; expert review pending

Clear sample



IDRisk 2.0

Project

(GP/EFSA/ENREL/2022/03)



NOTA DE OCURRENÇA DE AMOSTRAS DE
GERENTES ALIMENTÍCIOS E/OU DE ALIMENTOS PARA ANIMAIS

Intervenção: _____
Processo: _____
Data: _____ Hora de levantamento do auto: _____

1. Operações que estão na origem de colheita (deix) amostrada?

Referência	Designação

2. Identificação da origem

UE	MS	Nome completo	Categoria profissional	Número de carta de identificação profissional para esta (s)MS	Se não for, qual a origem?

3. Identificação do veículo de transporte

Trata-se de um veículo de transporte? ☐ Sim ☐ Não.

Se não, qual o meio de transporte? ☐ Camião ☐ Camioneta ☐ Camião

Classificação: ☐ Mercadorias ☐ Mercadorias

Código de veículo:

4. Identificação do operador económico ao qual se colheita (deix) amostrada?

Designação do operador económico: _____

NIPC/NIF: _____ C.I.C. principal: _____

Nome de contacto: _____

Setor: _____

Local: _____

Código postal: _____

País: _____

Identificação da pessoa presente na amostragem: _____

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AI-Driven Risk Assessment



PWA Technology

Flexible Forms Application (Progressive Web App) accessible on mobile devices for field inspectors.



REST Integration

Real-time communication and direct data transfer to CA systems and EFSA.



Advanced AI

Automatic FoodEx2 classification using OCR, Large Language Models (LLM), and RAG for maximum accuracy.



Operational Efficiency

- Drastic optimization of field inspection team workflows.
 - Reduction of manual data entry
 - Increased sampling speed
 - Intuitive mobile interface

Data Quality

- Ensuring integrity and accuracy in information sent to European authorities.
 - Reduction of classification errors
 - Greater record completeness
 - SSD2 and FoodEx2 standardization

Regulatory Science

- Adoption of cutting-edge technologies for decision support and transparency.
 - Intelligent automation with AI
 - Enhanced traceability
 - Compliance with EFSA standards

**THANK YOU FOR YOUR
ATTENTION**

