

# FOODIE



FARM-ORIENTED OPEN DATA IN EUROPE

## Other FOODIE Pilots

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CIP-ICT-PSP-2013-7 Pilot Type B  
Grant agreement no: 621074

- ❑ Goal: Creation of a web-based DSS for plant diseases and pest management based on the obligatory principles introduced for crop protection in Poland (provisions of Art. 14 Directive 2009/128/EC and art. 55 of Regulation No 1107/2009/WE).
- ❑ The system will determine the optimal terms of crop protection by obtaining the high efficiency of treatment plans attained by reducing the use of chemical pesticides to its minimum.
- ❑ The scenarios in Polish pilot can be described briefly as:
  - Scenario A: Collection of weather and crop related data (six use cases).
  - Scenario B: Implementing algorithms for modelling risks and conditions responsible for crop diseases and pests using the data collected (six use cases).
  - Scenario C: Presentation of the results of the models (seven use cases)
  - Scenario D: Notification of personalised results produced by the system to the user upon exceeding the limit of defined threshold threats (two use cases).
- ❑ Six models/algorithms for plant diseases and pest has been implemented, out of which one is being tested in farm. Others are to be tested.

The purpose of Turkish scenario is to integrate geographical data with pasture/grasslands data collected by Department of Pasture and Forage.

Following scenarios will utilize the data.

These are the main activities:

- **Supervision of Pasture Occupation**

- As the law on pastures states, pasture land cannot be used for any other purpose.
  - Detection of any buildings or any different types of vegetation should be achieved.

- **Rehabilitation of Pastures**

- Soil quality and ingredients should be analyzed.

- **Determination of Boundaries**

- Pasture boundaries should be renewed every five years by law.
  - Boundaries should be detected and compared.

- **Quantity and Quality of vegetation of Pastures**

- Quality and quantity of vegetation of pastures related to the farming productivity.

- **Prediction of meat production cost**

- Analysis of forage on pastures will be great help for cost prediction.

## Location

The area is the mountain province of Belluno, located in the North-East of Italy and includes 60% of the Dolomites a UNESCO heritage site.

## Agriculture activities

1,985 active local units.



## Dataset layers

Our scenario is focused on general land description and agricultural datasets: General planning, orthophotos, cadaster, general technical maps, protected areas, forest distribution and types, crops, rural roads, aqueducts, geology, ecosystems, etc.

## Main goal on > Alpine farms

- Traced about 174 alpine farms: 40 make typical food products, 35 are agritourism and 5 alpine huts;
- Collected general data (location, altitude, water and electricity services, etc.), high quality food production and touristic accommodation info.

## Next steps

- Evaluate GPS sensors traceability on summer high mountain cows pasture.

## Location

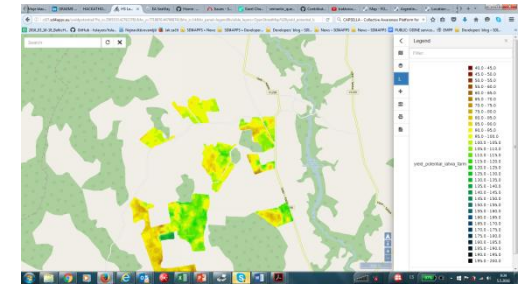
The pilots are running in three different regions: Pierriga (Arable Land 67% Grassland 31%), Zemgale (Arable Land 89%, permanent crop 10%), Kurzeme (Arable land 98%)

## Agriculture activities

Arable production, horticulture

## Dataset layers

Open Land Use Map, OpenTransportMap, LPIS for single farms, Landsat data, Copernicus data, data from farm telemetry, data from agrometeorological sensors.



## Focus on > Precision farming and horticulture

- Arable farming play important role in Latvian economy, there is huge potential for extension of PA services, which are now on very low level
- Horticulture (for example cranberries production or vegetation in greenhouses) are potential target

## Next steps

- Focus on agrometeorological monitoring, farm telemetry and yield potential

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