

# FOODIE



## FARM-ORIENTED OPEN DATA IN EUROPE

### FOODIE in a nutshell

The key point of FOODIE project is the creation of a platform hub on the cloud where spatial and non-spatial data related to agricultural sector are available for agri-food stakeholders groups and interoperable. This platform hub will provide agri-food operators with a valid tool for the management of the vast amount of different and heterogeneous sources of information related to agriculture sector. It will also help them in the planning and decision making process, with the aim of contributing to the creation of an agriculture knowledge management system focused on both agricultural issues and effective collaboration among groups in the agri-food industry, consumers, public administrations and wider stakeholders' communities.

### Objectives

FOODIE project aims at:

- Exploiting of existing spatial information resources and services from various domains coming from different initiatives;
- Designing and creating an open and interoperable geospatial platform hub on the cloud based on existing software components from research results and available solutions in the market;
- Integrating external agriculture production and food market data using principles of Open Linked Data;
- Using of open and flexible lightweight Application Programming Interface (API) for the publishing of datasets by private and public stakeholders in the agricultural and environmental area;
- Providing specific and high-value applications and services for the support in the planning and decision-making processes of the different stakeholders groups;
- Providing security mechanisms to prevent the unauthorised access and use of the platform users' personal information as well as the data published by them;
- Offering a marketplace where data can be discovered and exchanged with the additional contribute of external companies that can publish their own agricultural applications based on the data, services and applications provided by FOODIE.

### Milestones

After the first year of activities FOODIE project the phase of pilots' execution has been reached. It consists of 3 stages, according to the development approach adopted by FOODIE: proof-of-concept, test stage and production stage. Currently, the execution is focused on the first stage (proof-of-concept), with a narrow scope covered number of participants involved, with the idea of having all the capabilities to demonstrate the utility of the FOODIE platform.

- **Spanish Pilot:** it focuses on precision viticulture, i.e. the appropriate management of the inherent variability of crops. At this stage, a process involving interviews with the technical direction of the wine company, a pre-analysis of the information provided by the final user and in-situ observation of the vineyards has been accomplished. As a result 3 main needs were identified: a) register and geo-localize the operations and information regarding the vineyard; b) a decision support system based on recommendations and predictions taking into account different measures, indexes; c) representation of all this information in a spatial and temporal dimension.
- **Czech Pilot:** its key element is the use of open data for strategic and tactical planning of farms. So far requirements for the 3 planned scenarios on the pilot were selected: a) improving efficiency of transport in agriculture; b) tracking the movement of farm machinery on pilot farms; c) monitoring of in-field variability for site specific crop management on arable land. Current activities related to tracking movements of farm machinery are focussed on deployment of devices on farm machinery and installation of infrastructure for processing data coming from the machinery. Within activities connected with improving of efficiency of transport in agriculture, now the focus is on reverse logistics which involves obligatory take-back of empty packaging from pesticides.
- **German Pilot:** it deals with the integration of the German machinery cooperatives systems with existing farm management and logistic systems. After a roadshow users will get training in technologies (WinGIS, DokuPLant, Logistics) including explanation of planned new FOODIE possibilities (platform for data, platform for download software, platform for planned new API's) and will have the possibility to use free of charge the technology until 31/12/2016 on condition that they provide a user-report every 6 months.

### Project ID Card



• Funded under the EU Seventh Framework Programme for research, technological development and demonstration

- Call: CIP-ICT-PSP-2013-7
- Theme 2: Digital content, open data and creativity
- Total cost: € 5,291,971
- EU contribution: € 2,960,985
- Grant agreement no: 621074
- Execution: 01/03/2014 to 28/02/2017
- Contract type: ICT-PSP Pilot Type B
- Project website: [www.foodie-project.eu](http://www.foodie-project.eu)



### Coordinator



Atos Spain, S.A (SPAIN)

Contact information  
Miguel Ángel Esbrí (Project Coordinator)  
Atos Spain, S.A.  
C/Albarracín, 25 - 28037 Madrid (Spain)  
Email: [miguel.esbri@atos.net](mailto:miguel.esbri@atos.net)

### Beneficiaries



Seresco, S.A (SPAIN)



Wirelessinfo (CZECH REPUBLIC)



Centro tecnológico para el desarrollo en Asturias de las tecnologías de la información (SPAIN)



Poznan Supercomputing and networking center (POLAND)



Ulusal CAD ve GIS Cozumleri Muhendislik Bilgisayar Egitim Ticaret AS (TURKEY)



Bodegas Terras Gauda S.A (SPAIN)



MJM Litovel AS (CZECH REPUBLIC)



PROGIS Software GmbH (AUSTRIA)



Technology Development Forum (LATVIA)



ENCO SRL (ITALY)



Consorzio Bim Piave Comuni della Provincia di Belluno (ITALY)



Kutahya Il Ozel Idaresi (TURKEY)