



FOODIE



FARM-ORIENTED OPEN DATA IN EUROPE

Issue 4 (June 2015)

FOODIE Newsletter

FOODIE Team's corner

Dear Members of FOODIE Community,

After a successful EC review, FOODIE project is moving forward. This issue provides you with an idea of the main achievements in the last quarter. Indeed, this fourth edition covers the period from March to June 2015 and presents the main progress and activities of the project. In addition, it will keep you informed of upcoming events and past events where FOODIE has been involved in. We hope you find the information interesting and would appreciate your feedback.

ABOUT FOODIE

FOODIE is a co-funded research project within the Competitiveness and Innovation Framework Programme (CIP) programme of the EU's Seventh Framework Programme (FP7).

The project aims at implementing the vision of a cloud-based platform offering agricultural services based on open data.

FOODIE explores the opportunity to (re)use open data in the agricultural sector to create new applications and services that provide added value to different stakeholder communities. In the FOODIE planning, three pilots have been designed in order to demonstrate the objectives and achievements of the project:

- **Pilot 1:** Precision Viticulture (Spain).
- **Pilot 2:** Open Data for Strategic and Tactical planning (Czech Republic).
- **Pilot 3:** Technology allows integration of logistics via service providers and farm management including traceability (Germany).

These pilots, in collaboration with other stakeholder groups, will lay the foundation for large-scale trials in the agricultural sector with a perspective of achieving sustainable socio-economic progress in Europe. The project duration is 36 months; it started on 1 March 2014 and will be completed on 28 February 2017. The FOODIE consortium comprises 12 organisations from 7 countries.

PUBLIC DELIVERABLES ARE AVAILABLE

FOODIE Team is happy to announce you that all the public deliverables have been uploaded to the repository on FOODIE website. To learn more, please click the following link: <http://www.foodie-project.eu/downloads.php?idc=5>

PROJECT ACTIVITIES AND RESULTS

FOODIE Team has developed a first version of the service platform. An initial set of components has been deployed in the platform, including a data harvester for collecting periodically LANDSAT-8 imagery, a desktop client, a farmer mobile application, an agricultural service advisor, a machinery monitoring, a marketplace and a semantic tagging service. Data from global organisations related to Agriculture (e.g. from Eurostat, EEA, FAO) have been already incorporated to the service.



In addition, the project has successfully submitted a proposal under the GEOSS Architecture Implementation Pilot – Phase 8 in order to support the wide variety of demands that are primary inclined to agriculture and water pollution monitoring.

A training plan has been developed to provide involved stakeholders in general, and to end-users specially, the acquisition of the necessary knowledge to understand and operate the platform services effectively and productively. The main educational method that will be used in pilot training will be blended learning, using Moodle as training platform, which was installed as part of FOODIE infrastructure.

The materials in Moodle will be combined with practical training (simulation) and classroom workshops. At this stage, 8 courses on FOODIE methods and 1 course on FOODIE tools are currently available on the FOODIE Moodle platform.

This teaching material for farmers focuses on:

a) Methods of Farm Management:

- **Sustainable production (PROGIS):** it presents the principles of sustainable agriculture as base for long time sustainability of production and environment.
- **Precision farming (MJM):** it explains the principles of precision agriculture and the main related benefit of adopting precision farming methods.
- **Precision viticulture (SERESCO):** it introduces precision viticulture methods, concepts and management.
- **Knowledge management (WRLS):** it illustrates what is the knowledge management on farm level and how it could improve farming production.
- **Logistics (PROGIS):** it tackles the logistics at farm level.
- **Tactical planning (WRLS):** it focuses on the strategic planning and methods to determine organizational goals and how to achieve them.
- **Agrometeorological information (ENCO):** it deals with new methods of improving day-to-day operational decisions concerning soil, crop and water management, exploiting agro-meteorological and agro-climatic information.
- **Market analysis (ENCO):** it intends to highlight the primary importance of market analysis in the management of agri-business.

b) Methodologies, software components and tools of Farm Management

- **Data Fusion (NETCAD):** it explains how to combine data from different heterogeneous sources together to provide more efficient representation of data and why it is important for agriculture.

PILOT EXECUTION PROGRESS



Spanish Pilot

The main goals of Spanish Pilot are the appropriate management of the inherent variability of crops, for instance by variable-rate application of inputs, selective harvesting, greater precision and efficiency of samplings or prevention of pests.

This pilot is supported by a set of software components to register information and to represent it in a complete and usable way.

Thus, use cases implemented are those devoted to register treatments, production and samplings (for analysis) and those devoted to display geo-referenced information such as vegetation indexes, treatments, historical production and historical results of the analysis of samples.

Czech pilot

The primary objective of the Czech Pilot is to improve management and logistic of farms and agriculture service companies, introducing new tools and crop management methods for reduction of environmental burden while maintaining production level.

This pilot will create a complex solution for optimization of logistic at service provider - MJM (Scenario A), effectiveness of machine telematics on farm (Scenario B) and reducing agrochemicals consumption in the farm by site specific crop management. At this stage, optimization of machinery management is focused on the development of telemetry units and establishment of tracking functions at pilot farms.



German Pilot

The pilot "Machine Cooperatives" relies on the partnership with the German Machine Cooperatives as well as single farmers and machine producers. The overriding concept of this pilot is the solidarity between their members. Thus, the cooperative offer and support business- and social services.

The goals are the development of a digital geography of all farmers, farms and fields in a region (country) including the corresponding agricultural expert information, plus all infrastructure data needed for further agricultural applications up to logistic and precision farming tasks. Further details are available here: ftp://ftp.progis.com/public/2015_PROGIS_AGROffice.pdf

PAST EVENTS

FOODIE at the INSPIRE-Geospatial World Forum 2015



On 25 - 29 May 2015, FOODIE project was presented at "Could Agriculture benefit from INSPIRE? Could INSPIRE benefit from Agriculture?" workshop organised by WIRELESSINFO in occasion of the INSPIRE-Geospatial World Forum 2015.



It was held in Lisbon (Portugal). It was an extraordinary occasion to launch the debate on the interconnection between INSPIRE spatial information infrastructure and the agricultural domain.

FOODIE at Expo Milano 2015 – B2B

Creativity and innovation in the Agro-food sector was the focus of the matchmaking event organised by Expo Milano 2015 in partnership with Enterprise Europe Network.



B2B European Commission
Worldwide Matchmaking Events
At EXPO Milan 2015

It was held on 12 June 2015 in Milan (Italy). Very interesting bilateral meetings with farmers were held by ENCO. This event was an exclusive moment to introduce FOODIE project, its concept and benefits to potential end-users of the platform.

FOODIE at EFITA/WCCA/CIGR 2015

It is time for FOODIE Team to present the project at the Conference which has been taking place in Poznan (Poland) from June 29 to July 2 2015.



EFITA/WCCA/CIGR 2015 is a joint conference of three associations: European Federation for Information Technology in Agriculture, Food and the Environment (EFITA), International Network for Information Technology in Agriculture – World Congress on Computers in Agriculture (INFITA – WCCA) and International Commission of Agricultural and Biosystems Engineering – Technical Section VII: Information Technology (CIGR VII).

UPCOMING EVENTS

FOODIE Team will be presenting the project at the following events:

- 06 - 10 July 2015, **15th International Conference Computational and Mathematical Methods in Science and Engineering (CMMSE)**, Rota, Cadiz, Spain
- 07 - 09 September 2015, **29th International conference on Informatics for Environmental Protection (EnviroInfo & ICT4S)**, Copenhagen, Denmark
- 23 August 2015, **Expo Milan 2015 – Coldiretti Pavilion**, Milan, Italy
- 14 - 16 September 2015, **International Conference on Information Systems for Agriculture and Forestry (ISAF 2015)**, Dresden, Germany
- 28 – 29 September 2015, **AgriFutureDays 2015**, Beijing, China
- 05 – 11 October 2015, **Expo Milan 2015**, Milan, Italy
- 05 - 10 October 2015, **9th Symposium of the International Society for Digital Earth (ISDE 2015)**, Halifax, Nova Scotia, Canada
- 10 – 14 November 2015, **Agritechnica 2015**, Hannover, Germany
- 16 - 17 November 2015, **European Data Forum (EDF 2015)**, Luxembourg

PAPERS, ARTICLES & PRESENTATIONS

The project website houses the FOODIE Repository that gathers all the articles published on magazines of interest, papers submitted to a selection of international conferences and journals for scientific dissemination purposes. Click here to learn more!

MEDIA

Take a peek at the interviews on National Spanish TVs that Terras Gauda broadcasted! Also Progis uploaded this video in occasion of the Agrifuture Days 2014 in Ossiach, Austria.

More videos will be available soon!

Join FOODIE on Twitter, Facebook, slideshare and LinkedIn and share your comments and opinions with us!

Are you interested in getting involved within FOODIE project? Do you know any interesting connection between your sector and your team? Write us and we will explore the opportunity to collaborate.

Should you be interested in receiving further information about the project to forward and hand out to interested parties, please let us know and we will provide you with a brief presentation.

Learn about the project's goal, its background and its strategy and download the FOODIE Flyer in:

English
Spanish
German
Czech
Italian

Translation of the FOODIE Flyer in more languages will be available in the next issue of the project newsletter!

Please disseminate this newsletter amongst your potentially interested colleagues and networks.



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If you do not want to receive this newsletter from FOODIE project in the future, please unsubscribe writing to contact@foodie-project.eu