

UC3: Farm Registry

Description of the Use Case

The UC3 is a Farm Registry Data Model for agricultural areas and updating and consulting interfaces (web services) to exchange information.

The goals of UC3 Farm registry are :

- Short term:
 - Analysis of the existing datasets related to IACS
 - Develop an architecture that can be integrated with other systems such as:
 - The FaST
 - Official agricultural registers
 - Official statistical surveys
 - Smart farming applications
 - Multi-actor approach
 - Agreed Farm Registry data model proposal for agricultural areas
- Long term:
 - Get ready for the new CAP:
 - Extensive use of information
 - Access to different datasets
 - Make the control of the claims easier
 - Support a future seamless claim system

From the analysis of the existing data sets, we have concluded that the information that a Farm Registry for agricultural areas must contain is :

- Basic information about the personal data of the owners
- Farm and agricultural plots that make part of it
- Geospatial delimitation of the Farm
- Rainfed or watered crop
- Seedtime
- Use of fertilizers and phytosanitary products: product, dose and application dates

The approach to the UC3 Data Model could be as shown below:

- Focus on the territorial dimension of farms: Farm Registry
- A unique farm identification code for the farms across Europe. *The proposal has been included in the WP3 questionnaire to be filled this month.*
- The agricultural plot would be the minimum work unit: defined as farmer + crop + rainfed/watered
- The information will be organized in three levels :
 - Where is the farm?: farm, geospatial delimitation and basic use (Agricultural Land, Permanent Pastures, and Permanent Crops).

- What does the farm produce?: Annual geospatial declaration of rainfed or watered crop
- How do you produce in the farm?: seedtime, agricultural activity, fertilizers, plant-protection products.

Innovation in the Use Case

In this UC, the innovation consists in modernizing the IACS by optimizing the efficient use of data through the development of an architecture that can be integrated with other systems.

The UC3 includes a common data model for member states, i.e. introduces a crossborder solution. Besides the fact that it would allow the exchange of data in a uniform format, it could provide a unique farm identification code for all countries, at the expense of being endorsed by the rest of the participants.

Benefits

The principal benefits will be:

- Facilitate the application process and administrative procedures of the farmers by removing the single application process for a seamless claim system
- Farm Registry vocabulary & interoperable services
- Integration & harmonization of datasets & data sources
- Data model and interfaces
- Open Data Publication of anonymized data
- Links with other systems

Involvement of stakeholders

Regarding the stakeholders, the following have been identified:

- The European Commission through FaST that is taken into account in the analysis phase
- Research organizations and their intelligent tools for the agricultural sector
- Spanish paying agencies that will be involved in the data model definition
- Other administration units responsible of the reference data
- Farmer organizations that will participate in the project