



## **LIFE14 CCA/GR/000389 - AgroClimaWater Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries**

### **Deliverable C1.1: Final web-based platform**

Action C1: LIFE AgroClimaWater Geodatabase  
development, update and maintenance

Action: C1  
Release: Final Version  
Action Responsible: HYETOS  
Contribution to action's implementation: IOTSP, LRI, KEDHP, MIRABELLO, UNIBAS

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## Terminology / Abbreviations

<b>Term</b>	<b>Description</b>
AWMS	Agricultural Water Management System
etc.	et cetera
Fig.	Figure
GIS	Geographic Information Systems

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## 1. INTRODUCTION

The main scope of Action C1 is the handling of the extensive range of data collected and generated during the project. To this end, two IT tools were developed, the project's Geodatabase and the project's web based platform.

The 1<sup>st</sup> IT tool, the project's Geodatabase, Geographic Information Systems (GIS), aiming at the storage, process and query of the spatial information and their elaboration and utilization so as to analyse and assess the current situation and the project's results. The Geodatabase is presented in the deliverable C.1.2 "Fully functional Geodatabase". The 2<sup>nd</sup> IT tool, the project's web-based platform, is an online tool through which the certified project's beneficiaries and agronomists can import, edit, view and export various information, per registered farmer and parcel, collected through the 1<sup>st</sup> Agricultural Water Management System (AWMS) form in reference to:

- the farmer's info
- the parcel's info
- the soil cultivation / weed management
- the applied fertilizers, herbicides and plant protection products
- the harvesting of the crops
- the pruning
- the respective consumption of water

In the following chapters the main operations of the web-based platform is briefly presented.

## 2. ACCESS TO THE WEB-BASED PLATFORM

The web-based platform for LIFE AgroClimaWater project is available at <http://life-agro-1.dyndns.biz:2016/Logon.asp>. As this tool was developed only for the scopes of AgroClimaWater project and in order to avoid accidental entries that would compromise the reliability of the data, the platform is accessible only to certified users who can use a personal username and password to login into the platform (Fig. 1).



Fig. 1: "Login" page

The web-based platform will be available throughout the project's lifespan and five years after the end of the project in order the project's scientific team to insert all the related data that will be collected through the 1<sup>st</sup> AWMS form during and after the project's lifespan.

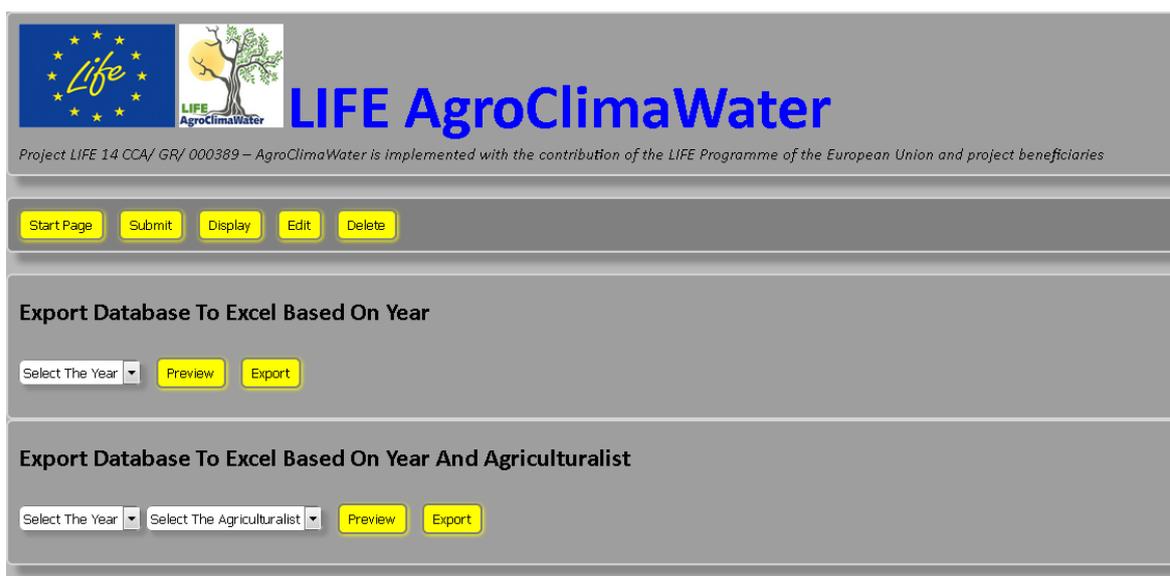
### 3. TYPES OF USERS

Two different types of users were defined for the scope of LIFE AgroClimaWater project depending on their needs and their permissions on the web-based platform:

- Agriculturalists of the three F.ORs which are responsible for the collection and the insertion of the related data, and
- Researchers which are the members of the project's beneficiaries and consist the scientific team of the project.

Agriculturalists can submit, view, edit and delete information on the platform (Fig. 2), while researchers can only view the information of the database (Fig. 3).

Both of them can use the "export operation" in order to preview or download the gathered information so they can have a more integrated view of the data and the ability to elaborate and assess the data for the project's needs.



**Fig. 2: Agriculturalist's interface**

In order to cover the project's needs the project team defined different users for each beneficiary and created the relevant users' accounts. More specific, four accounts for agriculturalists (one for KEDHP, one for AFI and two for Mirabello) and nine accounts for researchers (3 for UNIBAS, 1 for RodaxAgro, 2 for LRI, 2 for IOTSP and 1 for HYETOS) were created and used by the project team.



**Fig. 3: Researcher's interface**

## 4. MAIN OPERATIONS

### 4.1 Submit

The main operation that agriculturalists can perform is the submission of information related to the farmers and their parcels, from the menu "Submit", using three different online forms:

- "Submit Farmer" (Fig. 4) through which the user can enter to the platform data that are related to the farmer such as:

- ✓ Name
- ✓ Code
- ✓ City
- ✓ Address

**Fig. 4: "Submit farmer" page**

- "Submit Parcel" (Fig. 5) where the user can select the owner of the parcel and the pilot area within its boundaries it is located and add data regarding:

- ✓ the crop that is cultivated,
- ✓ the parcel's code,
- ✓ the location, the coordinates and the area of the parcel,
- ✓ the mean yield of last 5 years,
- ✓ the name and the address of the responsible person,
- ✓ the number of the trees that there are in the parcel,
- ✓ the date of the first planting,
- ✓ whether the parcel is organic or not, and
- ✓ comments that would be useful.

**Fig. 5: "Submit parcel" page**

- "Submit Parcel" (Fig. 6). In order to add data in this form the user should select first of all the farmer of the parcel from the drop-down list and the parcel code for which he will add the data.

Then, selecting any of the available forms he can submit specific information in reference to:

- ✓ Water management,
- ✓ Soil cultivation,
- ✓ Fertilizers,
- ✓ Harvesting,
- ✓ Plant Protection Products,
- ✓ Herbicides,
- ✓ Pruning,
- ✓ Submit date

Submitted parcels are connected to farmers and each parcel contains the above forms as information about cultivation. Each of these forms are submitted according to the year of cultivation.

**Fig. 6: Submit "Water Management" information**

## 4.2 Edit

Users with privileges to use this operation can edit the inserted data on the database by selecting the "Edit" menu (Fig. 7). The user can edit only the information that is related with the parcel and the agricultural practices that are applied per parcel and not the farmer's information.

The steps for editing information are the following:

1. Choose a Farmer
2. Choose one of his parcels. In this step if the user wants to edit the parcel's info he can edit the fields and press the yellow "Edit Parcel" button.
3. Next the user has to choose one of the following information categories such as "Soil".
4. Then he has to choose the year of the inserted information he wants to edit
5. The final step is to edit the fields and press the "Submit button"

**Fig. 7: "Edit forms" page**

### 4.3 Delete

Also the system supports deletion of Farmer or a Parcel. Deleting one of these the system deletes all the information that is connected with the farmer or parcel respectively.

Fig. 8: "Delete Parcel" page

### 4.4 Display

The display operation is accessible from every user has access to the system. By selecting the farmer and one of his parcels the user can see every information about a specific year. In this function of the platform the information that is presented is not editable from the user and for this reason the fields are gray (Fig. 9).

Fig. 9: "Display" page

