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PURPOSE OF THIS PAPER

The objective of this paper is to give the users an overview about the WebGIS prototype of SENSAGRI project productions: Description and instructions are given to ease the experience of products showcased. After a lot of discussion, an open-access to the prototype was established.

The word user represent all users, and partner users represent the intern team of the project.

The prototype services, and proof of concept services may take the name of product, data.

Prototype description

Basically, the tool supports partner users to display SENSAGRI prototypes easily and improve communication “Visual communication” between partners. In the Living Lab Process, GIS medium has also an other role (but not detailed here), which aims to design and prototype services where SENSAGRI products are relevant between a service provider (mid-user) and a user (end-user).

Simple manual of SENSAGRI WebGIS

As already mentioned before, the next section will focus on how to use the tool and give some indications, warnings, remarks.

In the first title of the second part “Overview”, we present a brief description of the main parts with a synthetic table. The second and the third part, we will make some user stories (scenarios) that gather all the functionalities.

Throughout this document, the pictograms below are used to underline points or important notions. The terminology of the prototype may take another words such as tool or application.
PRESENTATION OF THE PROTOTYPE

In this paper, the word **user** represent all users, and **partner users** represent the internal team of the project. The **prototype services**, and **proof of concept services** may take the name of **product, data**.

You can display the sidebar by clicking on this button 🔄, to close it you need to click to this logo 📦 or to click in in another place except the sidebar.

Overview

In the following table, we will resume the different elements in the first page of the tool, then briefly present each one with a zoom on it by following some user stories.

Get access: [http://osrCESbio.UPS-Tlse.FR/sensagri](http://osr-cesbio.ups-tlse.fr/sensagri)

1 - Sensagri LOGO
When click on it, a window will be displayed that contains a quick description of the project with a link to the official website, please see the image below.
2 - Search

The user should select the test site (using the radio boxes), and optionally if he wants to focus in a specific zone by searching using the search input (address).

3. Overlay two products

If user wants to overlay two layers, this checkbox must be activated before data selection. If not, please refresh the webpage.

4. Prototype services, proof of concept services

This is the main section, each prototype service or a POC service is displayed by presenting the name, acronym, producer and and some words about it. This image below presents an example.
By clicking on this button a window will be displayed that give us a description about the service.

5. Coordinate display, draw tool
Users can draw a polygon and then display the area. They can also draw a line and then display the length.

By choosing the drawing type, ??
To exit “tool” mode, please click back on the drop down list.

6. Living lab process
This part shows the test sites of the Living lab approach, the mid-users headquarters and their work zone.

7. Scale
a dynamic scale is available.
8. Layers panel, zoom tool
When hover in the layer switcher, the layers panel will be appeared (the following image, right)
Each selected product will be in this Panel, it contains also the Living lab layers and the drawed features.

Above the layer switcher, a zoom in/zoom out buttons are available also.

Data visualisation
In this part, we will follow two scenarios, step by step, to give you the essential steps to visualise a product, and then perform the transparency and the timeline functionalities.

Scenario 1, visualise a product
I'm a user, and I want to see the advanced crop maps in the site of "Castile and León", Spain.

For example we will take “Valoria la Buena” town.

1. I choose the spanish site,
2. Search for “Valoria la Buena”,

coordinates (WGS84):

[Map showing the location of Valoria la Buena]
3. I choose the “Advanced Crop Maps” POC service,

4. I change the opacity (click and drag the “opacity” cursor”), and change the basemap to aerial map.
Scenario 2, data time series

I’m the user and I want to see the timeline of SSM service in the Italian test site.

1. I choose **Italy** to select the test site,
2. I select the Surface Soil Moisture service,
3. I move the slider to see all the soil moisture changes,

4. Timeline cursor: click and drag the “Evolution” cursor to change the date. In the following screen, the basemap and the transparency has been change.)
Other functionalities

Overlay

User can overlay two layers and play with the transparency and the timeline slider.

⚠️ The checkbox must be activated before the data selection.

Activate overlay mode

Scenario, overlay Seasonal Crop Maps with Green Leaf Area Index

1. After choosing the site, I select the layer that I want to display as a basemap (in the front),
   a. then I choose the “Seasonal Crop Types”,
   b. then I will change the opacity.
2. I choose the second layer that I want to display in the back, in this case I will choose the “Green Leaf Area Index”, 
3. I move the slider for the first season, and see the development of the “Green Leaf Area Index”.

Another example using the “Advanced Crop Types” & “Seasonal Crop Types”,

To deactivate the drawing mode, it is necessary to choose “None” in the Drop down list after the drawing.

To hide the drawn shapes, we need to uncheck them from the layers panel.
Scenario, draw a polygon

Check living lab sites
OGC WMS services

You can display the data in your ows GIS solution by using this link:

http://osr-cesbio.ups-tlse.fr/geoserver_sensagri/SENSAGRI/wms
Suggestions

Feel free to give feedbacks on this User manual, by commenting this [link].