

CrowdSourcing Service

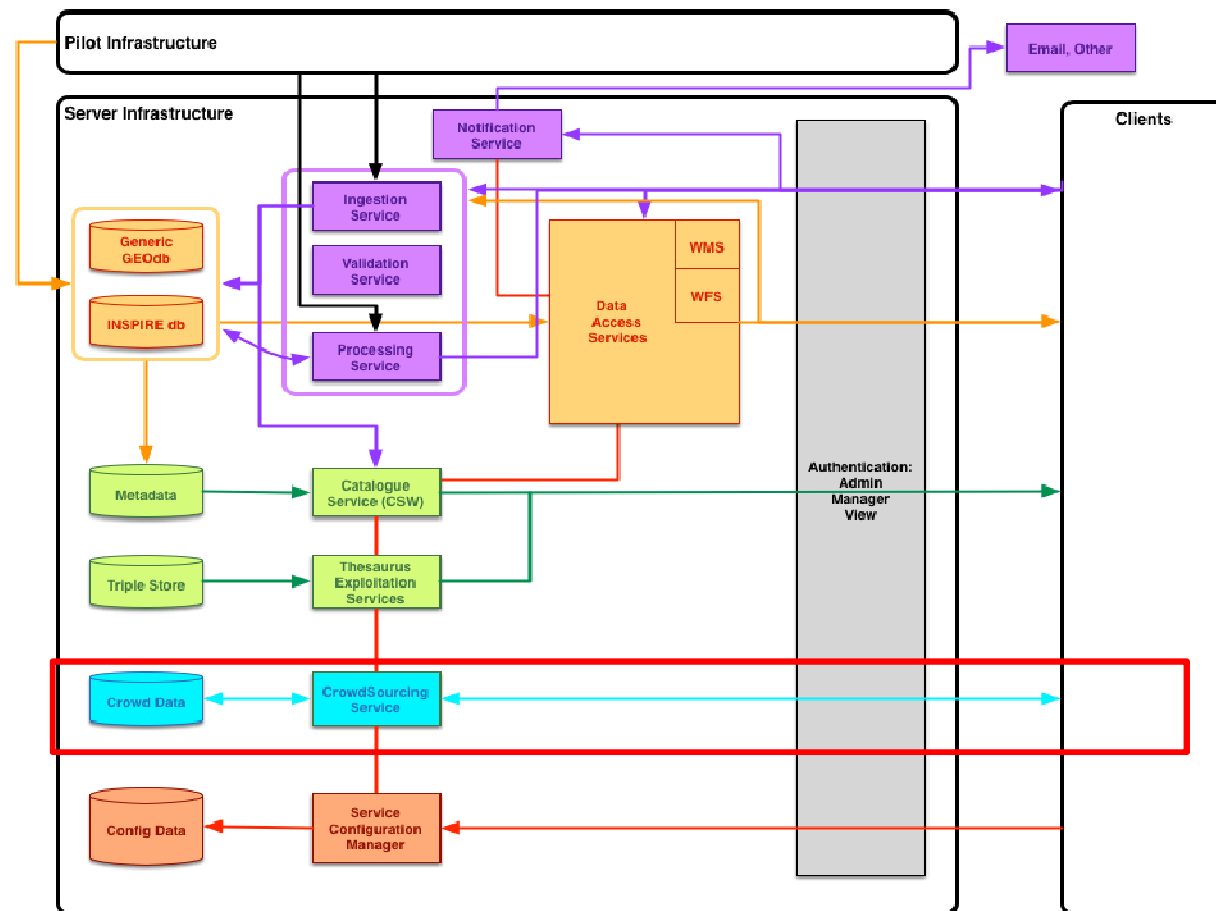
Umberto Di Staso
Fondazione Graphitech

eENVplus CrowdSourcing Service

- CrowdSourcing V1.0 at disposal
- Java-based Servlets able to manage and provide contents based on Pilot-defined templates
- Already deployed in the eENVplus infrastructure

□ <http://eenvplus.sinergis.it/CrowdSourcing/GetCapabilities>

eENVplus CrowdSourcing Service



■ Pilot EP07 - Hungary/Slovakia

The aim of this Pilot is to enable users to collect information about species distribution in Hungary and Slovakia protected areas.

The user will be able to choose Scientific Names of species stored in the EUNIS_SPECIES database, select the quantity, the position, add a note if necessary, and, optionally, add a picture taken from the device's camera.

■ Pilots Datamodel: EP07

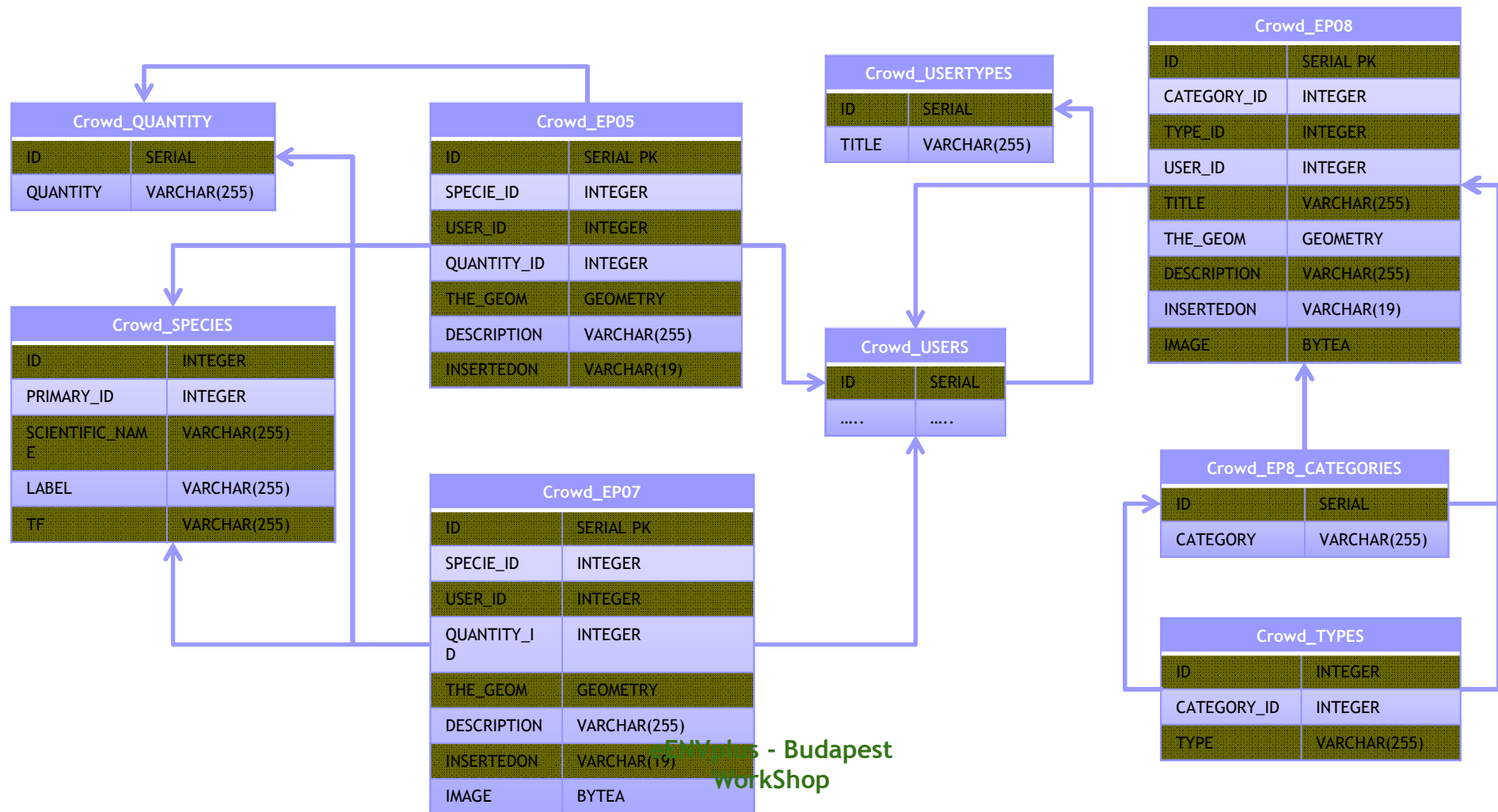
Crowd_EP07	
ID	SERIAL PK
SPECIE_ID	INTEGER
USER_ID	INTEGER
QUANTITY_ID	INTEGER
THE_GEOM	GEOMETRY
DESCRIPTION	VARCHAR(255)
INSERTEDON	VARCHAR(19)
IMAGE	BYTEA

Crowd_QUANTITY	
ID	SERIAL
QUANTITY	VARCHAR(255)

Crowd_SPECIES	
ID	INTEGER
PRIMARY_ID	INTEGER
SCIENTIFIC_NAME	VARCHAR(255)
LABEL	VARCHAR(255)
TF	VARCHAR(255)

Crowd_USERS	
ID	SERIAL
....	

■ The CrowdSourcing Database



■ Available Functionalities:

☐ Public:

- GetCapabilities: used to retrieve information about the service and exposed functionalities
- RegisterUser: used to register a new user into the system
- CheckLogin: used to check credentials
- GetObservations: used to download approved observations filtered by temporal range
- GetFeatureByID: used to download information about a specific observation
- PutObservation: used to upload observations according to a specific datamodel

■ Functionalities Under Development:

□ Admin:

- ApproveObservation: used to publish a specific observation
- GetPendingObservations: used retrieve all the unpublished observations
- GetConfiguration: used to get the system preferences
- GetUserList: used retrieve the list of registered users
- SetConfiguration: used to configure the system
- UpdateUser: used to update user's personal data
- ExportObservation: used to export published observations in different ways (INSPIRE compliant if applicable and/or CSV)

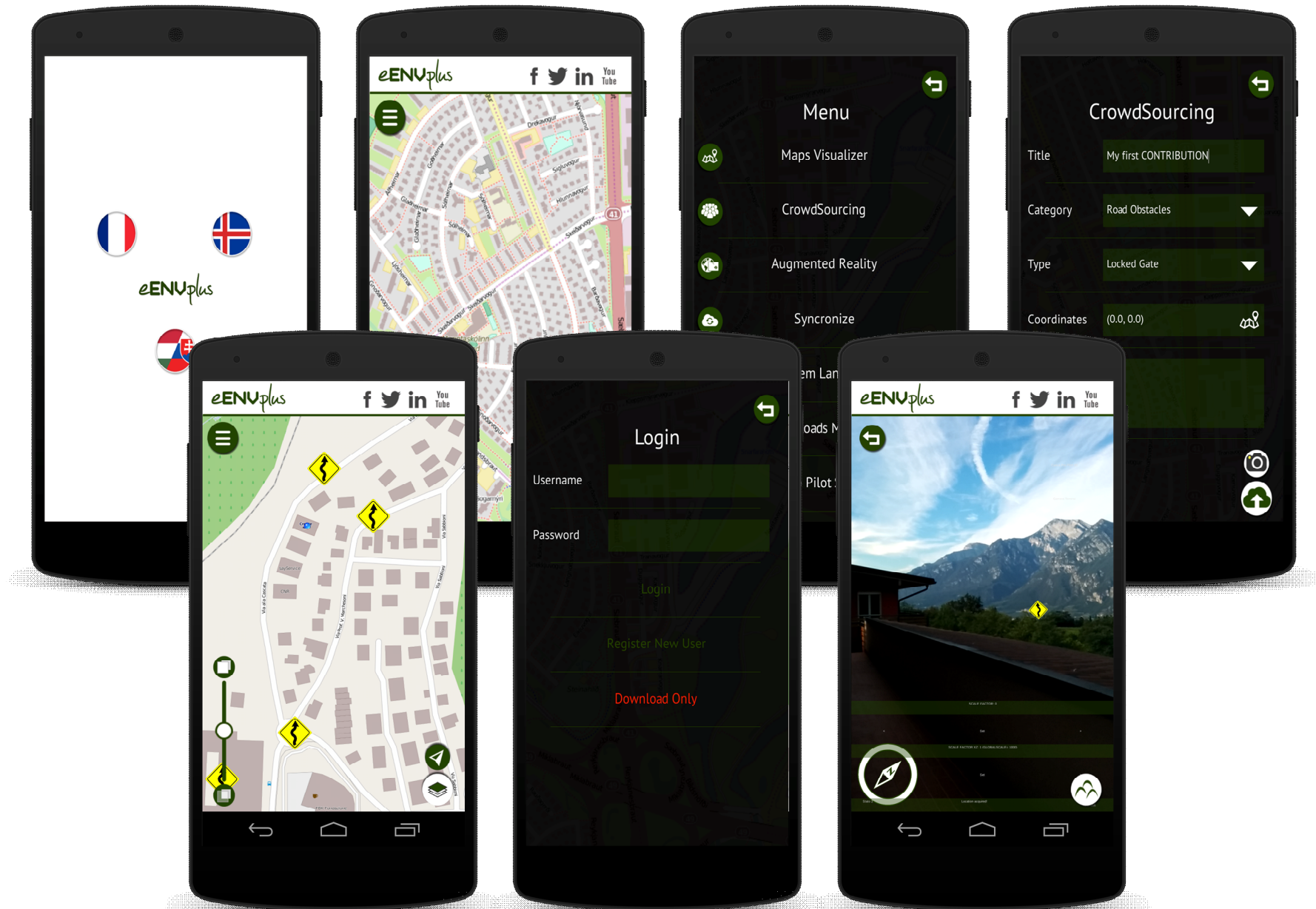
■ Mobile App

The Mobile App, available for Android devices, enable users to use the set of public services offered by the eENVplus CrowdSourcing Service.



eENVplus

CrowdSourcing App



■ Mobile App

The Mobile App offers the same functionalities independently by the selected pilot. In this way it was possible to create an unique mobile app for the project.



■ Admin Web Portal

The CrowdSourcing Admin Web Portal is a tool designed for both managing observations/set up the CrowdSourcing Service and visualize inserted data with a browser-based tool for Desktop Pc

- ☐ Public observations visualizator

- ☐ Restricted Area



CrowdSourcing Admin



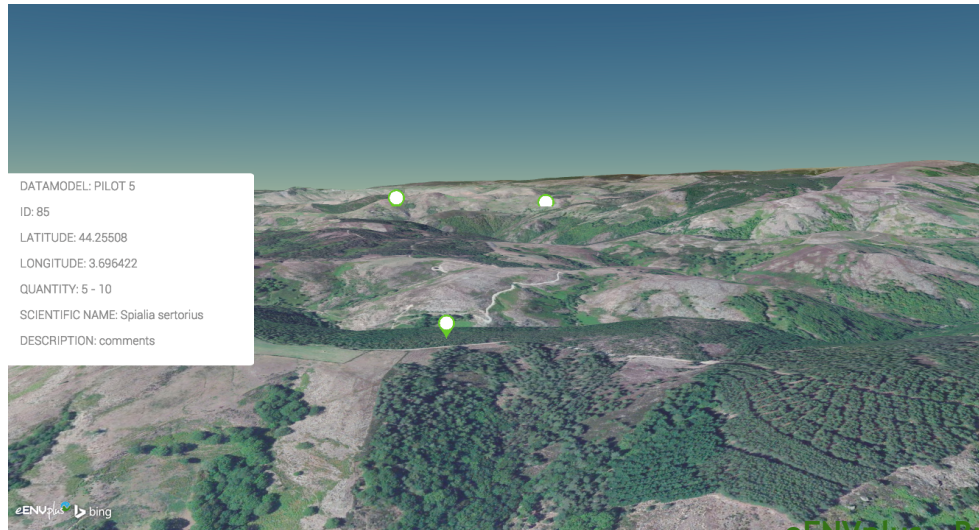
Visualize

Powered by CesiumJS the WebGL map allows you to visualize and explore validated point of interests.

Click on an element to visualize the associated information.

POIs can be validated through the administration WebPage, by access the [restricted area](#)

Visualize last: ☐ Day ☐ Week ☒ Month ☐ Year



eENVplus - Budapest
WorkShop



Manage

In this section the System Administrator can validate the collected Pols in order to publish them
To publish a specific point of interest, it is simply required a click on the **"publish"** button, located near each entry.

☒ Auto Validation

☒ Topo Validation

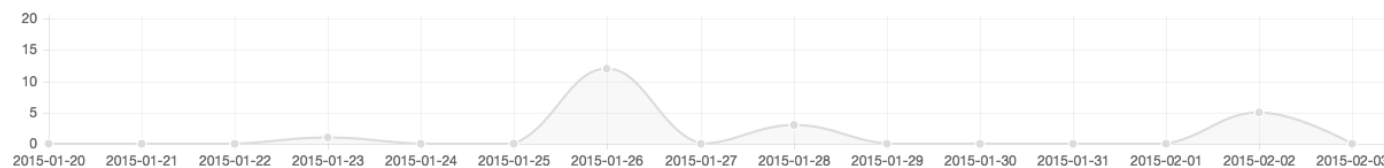
Total Observations: 21

ID	SCIENTIFIC NAME	QUANTITY	LATITUDE	LONGITUDE	DESCRIPTION
There are no data to publish.					

Export INSPIRE-SD

Export CSV

Last 15 days observations



[Demo]