



Project Title: ECOPOTENTIAL: IMPROVING FUTURE ECOSYSTEM BENEFITS THROUGH EARTH OBSERVATIONS

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Abstract	This document contains the link to the ECOPOTENTIAL Virtual Laboratory for the H2020 ECOPOTENTIAL project. The system architecture has been described in the project Deliverable “D10.1 Design of the ECOPOTENTIAL Virtual Laboratory”.
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1. Executive summary

The present document contains the link to the first prototype of the ECO POTENTIAL Virtual Laboratory Platform (VLP).

The VLP is a service-based platform which serves as a virtual (i.e. online distributed) and open laboratory to study ecosystems and ecosystem services. It ensures the open and interoperable access to data and knowledge and it is fully integrated in GEOSS. The ECO POTENTIAL Virtual Laboratory Platform is deployed and operated in a cloud based infrastructure and will constitute the main communication portal of ECO POTENTIAL with the broader scientific and user community. The platform will contribute to the development of and access to a full set of Copernicus data and information services defined within the project context. The generated products will contribute to other relevant European and international programmes, including INSPIRE, ESFRI, the NSF Earth Cube initiative, the RDA (Research Data Alliance) Brokering IG, and the Belmont Forum.

The architecture of the GEO Ecosystem Virtual Laboratory, already described in the report “D10.1 Design of the ECO POTENTIAL Virtual Laboratory”, is based on a set of principles currently shared in the scientific research communities, with particular reference to the GEO initiative, including GEOSS Data Sharing Principles, GEOSS Data Management Principles and GEOSS Architecture Principles. For greater flexibility, ECO POTENTIAL adopts an agile methodology allowing rapid development in response to new requirements and it is continuously enriched by the tools, data and knowledge generated within the project.

According to the implementation plan presented in D10.1, the first prototype of the ECO POTENTIAL VLP is a Metadata Platform providing metadata harmonization and data access from heterogeneous data sources. It actually includes a proof-of-concept of functionalities planned in future releases, such as the possibility to run ECO POTENTIAL workflows on selected datasets.

2. First release of the Virtual Laboratory Platform

The first release and prototype of the platform is available at the following link

<http://ecovrp.geodab.eu/ecopotential-vrp/home/index-dev.html>

The content of the platform will be continuously updated and an advanced version will be released at the beginning of 3rd year. The final release is planned during year 4.

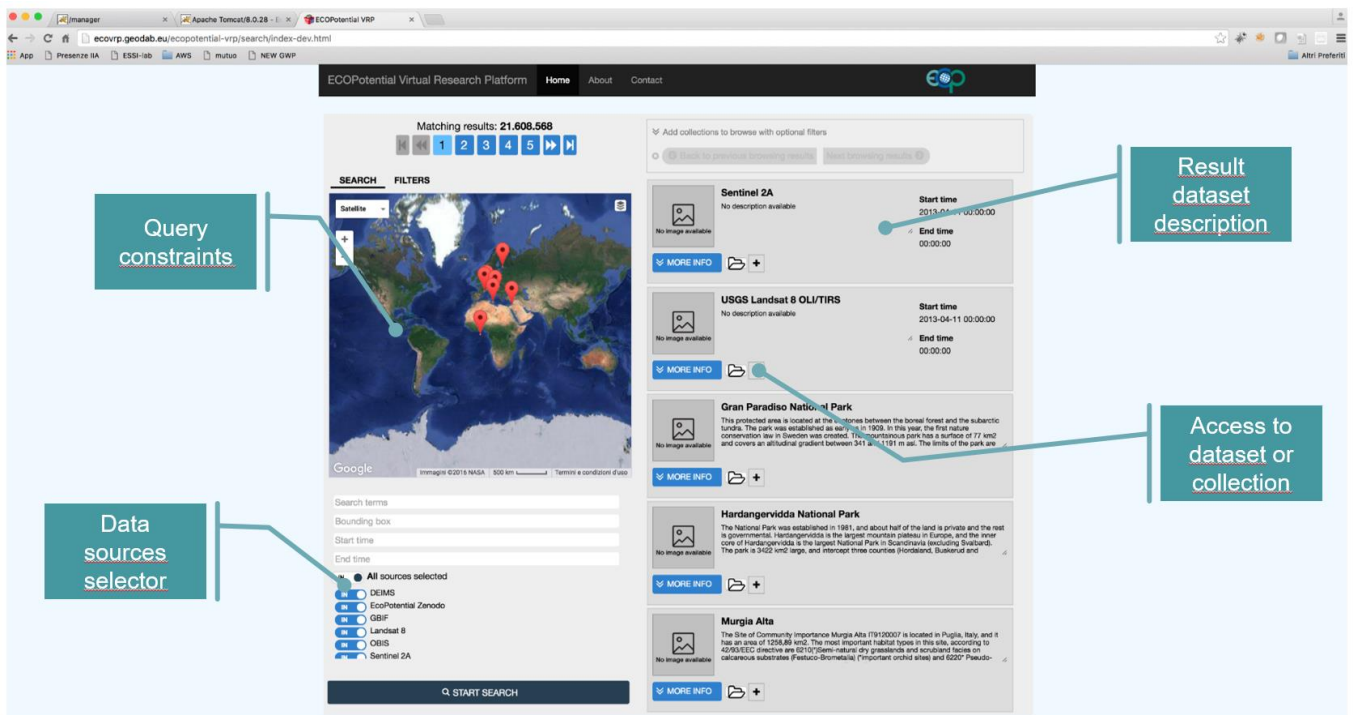


Figure 1 ECOPotential Virtual Laboratory Platform: the Data Portal

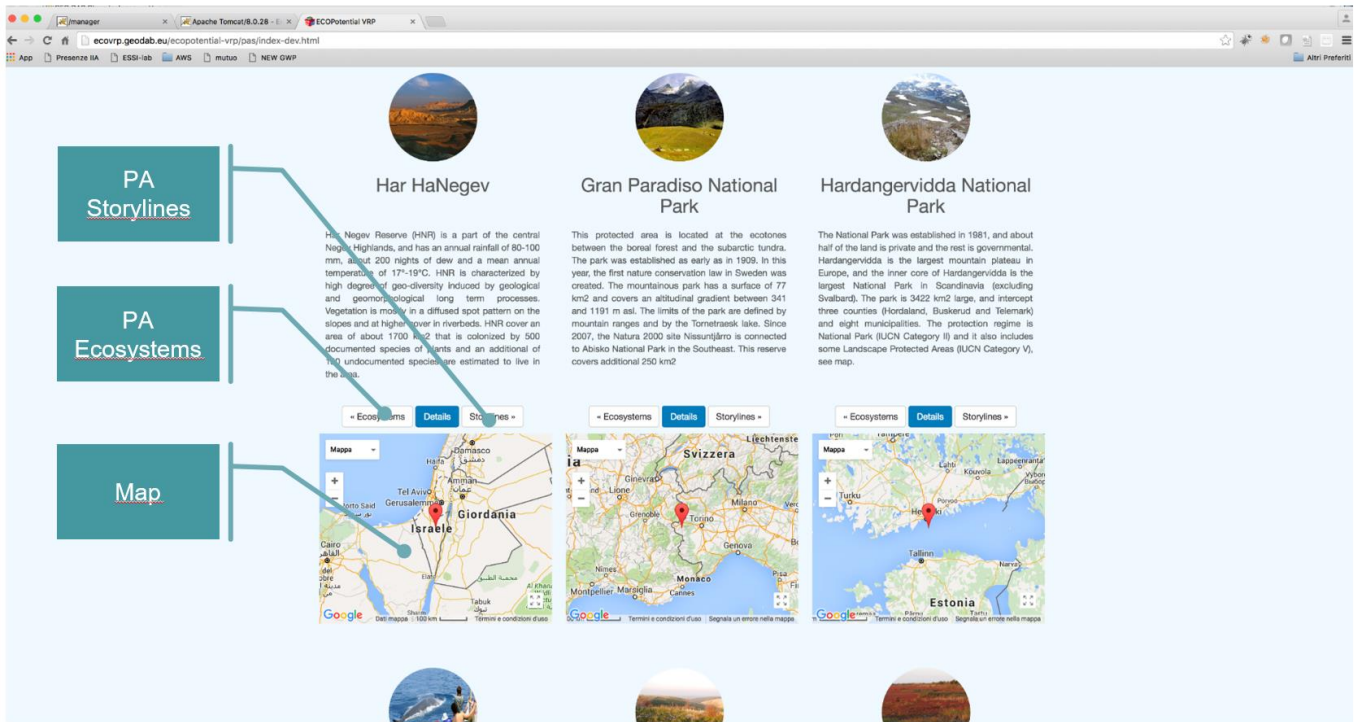


Figure 2 ECOPotential Virtual Laboratory Platform: information on Protected Areas (PAs)

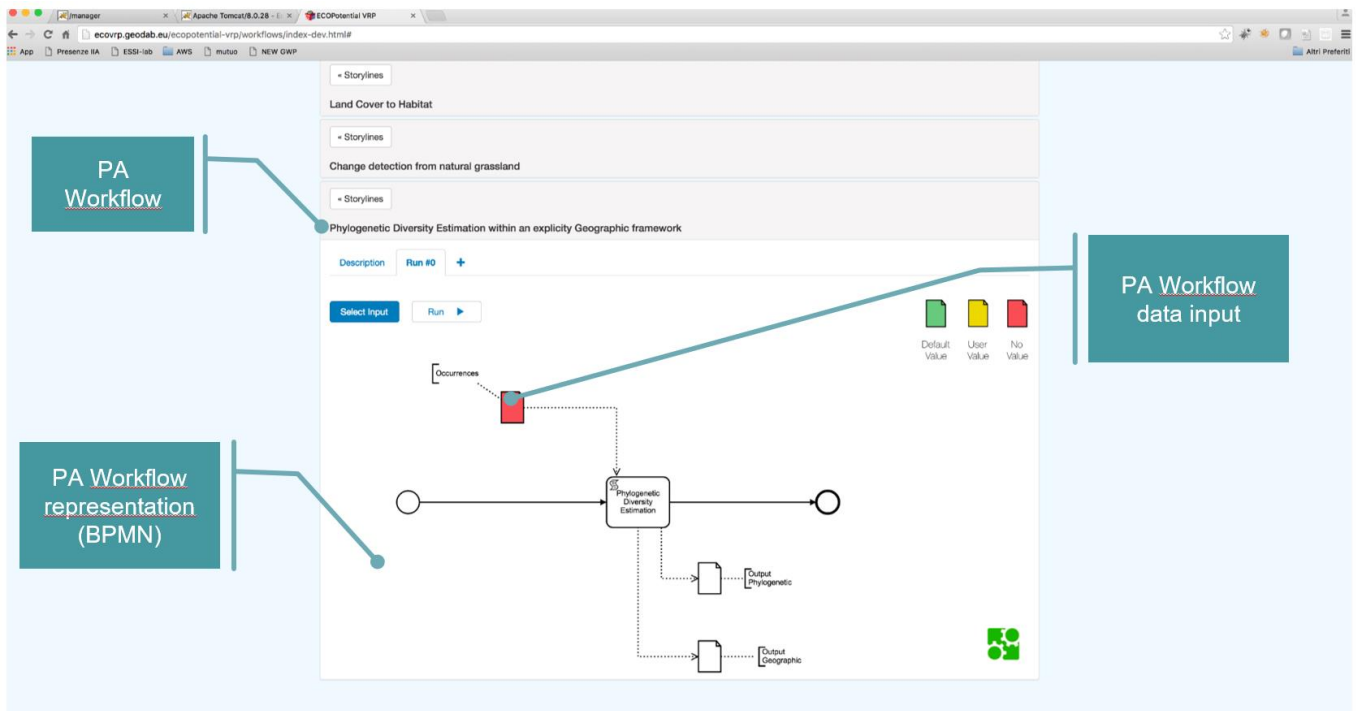


Figure 3 ECOPotential Virtual Laboratory Platform: executing Workflows for PA Storylines