

eEnvironmental services for advanced applications within INSPIRE

Project Fact Sheet

January 2013



The eENVplus project aims to unlock huge amounts of environmental data, managed by the involved national and regional environment agencies and other public and private environmental stakeholders, through the integration and harmonisation of existing services. These data are not only collected to answer reporting obligations on the environment to the European Union, but also to support national and local policies and actions.

The project does not design new services but rather, starting from the results of previous European experiences (funded projects, best practices, EU and national and local experiences), it integrates existing infrastructures into an operational framework able to overcome cross-border and language barriers. eENVplus provides not only the ICT infrastructure but also the description and the support to make this infrastructure operational and profitable through the provision of an organisational model and a tutored training framework.

eENVplus interoperable infrastructure provides Member States and Geographic Information Communities with:

- A comprehensive, open and scalable infrastructure able to integrate existing infrastructures according to the INSPIRE requirements, open standards and interoperable innovative services;
- A common Environment Thesaurus Framework, supporting the integration of existing thesauri relevant for the environmental sector via Linked Data and providing added-value services for its integration and exploitation in pilot applications
- A comprehensive toolkit with procedures, guidelines and examples for data harmonisation and validation supporting Member States during INSPIRE implementation;
- A set of innovative on-line added-value interoperable services aiming to facilitate the development of innovative environmental applications;
- A Training Framework to support, with eLearning tools, the development of the necessary capacities and knowledge to implement INSPIRE, to develop a SEIS and to keep this new adapted infrastructure operational.

Start date: 1 January 2013
Duration: 36 months
Web site: www.eenvplus.eu

eENVplus provides tools addressing multi-level interoperability stack

Systems of systems interoperability	through a comprehensive open, scalable infrastructure able to link to existing infrastructures developed through international or national-level initiatives (e.g. the INSPIRE portal)
Application-level interoperability	through a set of software components that allow communication, through interoperable standards, between existing legacy applications and the eENVplus service ecosystem
Inter-service interoperability	through development of daisy-chained services to allow creation of high-level functionalities from interconnection of interoperable lower-level services
Service interoperability	through a set of innovative on-line pre-built services facilitating the development of innovative applications
Semantic interoperability	through a Common Environment Thesaurus Framework, supporting via Linked Data the integration of existing Thesauri for environmental application, which facilitates data sharing through a common understanding of the meaning of terms and concepts
Data interoperability	through a comprehensive toolkit with guidelines and examples for data harmonisation and validation to support the Members States in the application of the INSPIRE implementation rules

Pilot Applications

In order to exploit the implementation of the eENVplus outcomes in a variety of situations with different user needs, it is intended to implement 9 environmental scenarios in 10 pilots. The pilots with their scenarios will allow to better streamline the tools available to the project into the main flow of INSPIRE compliance, with evident implications on interoperability among existing or planned applications.



List of pilots/scenarios

- Implementation of a SEIS for air quality data, pilots in Belgium and Italy
- Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders, pilot in Belgium
- CSspire - Everyday life issues connected to Environmental aspects in Czech Republic and Slovakia, cross-border pilot
- Natural Areas INSPIRE Compliance Toolbox, pilot in France
- Forest Fire Management, pilot in Greece
- Window on the Protected Areas - Mobile Conservation Map in Hungary and Slovakia, cross-border pilot
- INSPIRE Geoportal, pilot in Iceland
- Geological Map Harmonization in Italy and Slovenia, cross-border pilot
- Urban Ecological Landuse Planning Indicators to monitor good urban planning practices, pilot in Portugal

Target Groups

eENVplus is addressed to a community of technical and non-technical stakeholders:

- administrations and public bodies/agencies at different levels
- providers of environmental services
- providers of IT services
- research groups needing access to environmental information
- Non-Governmental Organisations (NGOs)
- Citizens

The exploitation of the project outcomes is addressed to:

- National Environmental Authorities (National Environmental Agencies, EIONET, Environment authorities at EU level)
- Local and Regional Environmental Authorities (starting from partners' networks)
- Thematic Communities (European Topic Centers, INSPIRE National Contact Point, etc.)
- Private Sector and SMEs

