

# Exploitation towards Thematic Communities, Training Framework and stakeholders involvement

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GISIG

eENVplus → virtual framework of components allowing deployment and creation of new and innovative applications

- Harmonisation and validation services: to guarantee the openness of eENVplus to be integrated into a system of systems infrastructure
- Added-value specialised services: to compose the base overlay for building advanced environmental application in order to provide an operational shared environmental information infrastructure
- Thesaurus framework: to improve the European competitive position in a multilingual digital market through the provision of better services to citizens and businesses
- eENVplus Training Framework: to support the EU policy related to GI, also sustained by the liaison with CEN/TC287 (WG6 Education and training)

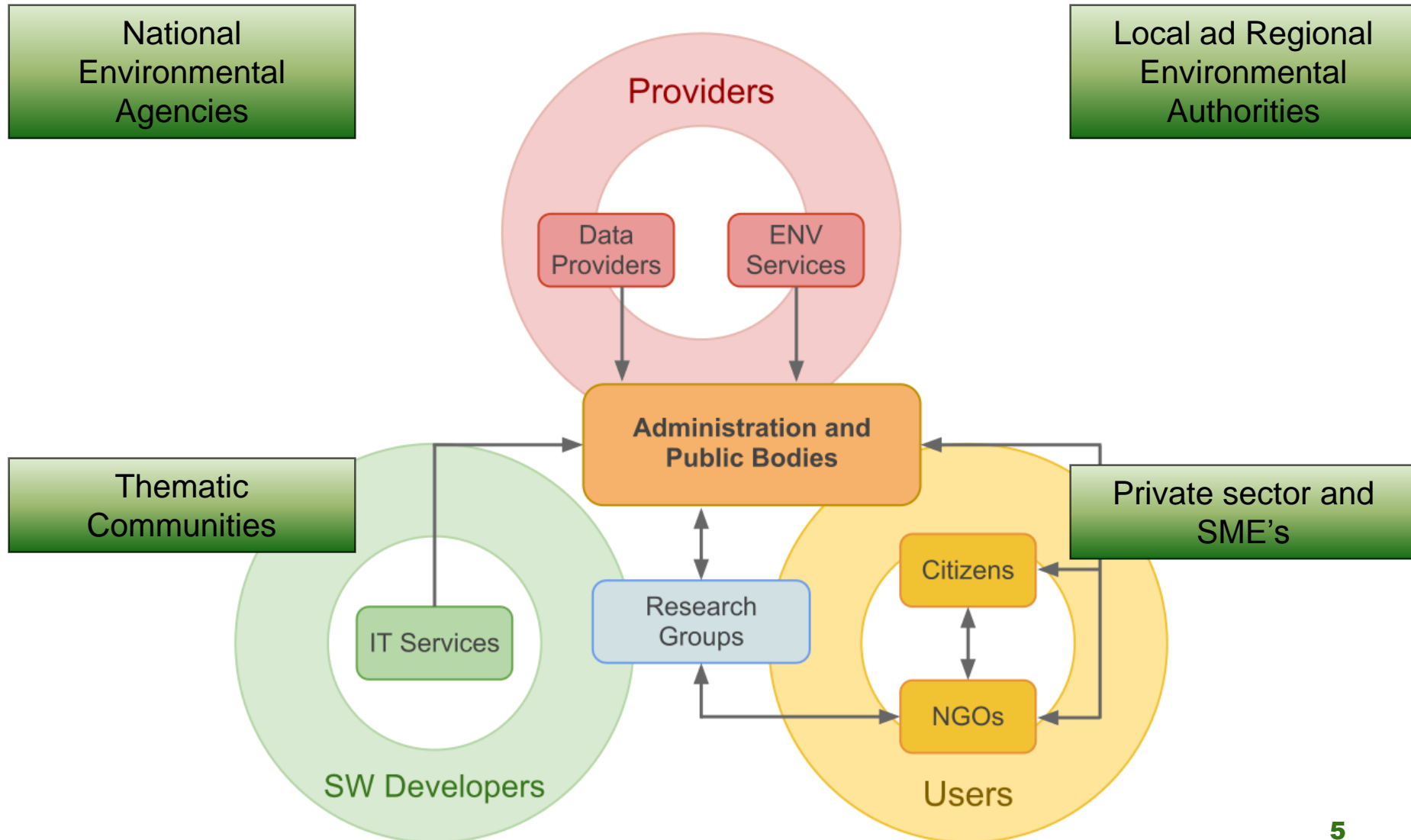
## *“Low cost availability of harmonized, public GI datasets”*

The geographic information datasets made available by eENVplus will be:

- **Public:** they are owned by the participating National Agencies
- **Harmonised:** they will be harmonised and validated against the relevant INSPIRE Data Specifications (which set data models common across the whole Europe for each specific data theme)
- **Available:** any user can access them through one of the eENVplus services according to the standards

**“Innovative value-added services allowing users to identify, access, use and reuse spatial data from local to European level”**

- eENVplus is an open infrastructure exposing services on a single or in an aggregated base
- customised or “as-is”
- easily exploitable by public/private sector to create added value services for new businesses, based on the identification, access, use and reuse of spatial data
- the eENVplus services can be easily used to make accessible, usable and reusable spatial data coming from any part of Europe, from local to European level



- **administrations and public bodies/agencies** at different levels, from national to local, both **as providers** of environmental data and information, thanks to improved availability of tools and good practices, and **as users** of such data and information for planning, management and reporting
- **providers of environmental services**, both **as users** of data for processing and **as creators** of new data layers and information
- **providers of IT services**: eENVplus will create a set of tools able to stimulate the IT industry in developing new applications
- **research groups** needing **open** and easy access to environmental information, not only for **study and research** but as well for **educational** and demonstration activity
- **NGO's** **as “browsers”** and as voluntary **providers** of environmental information
- **citizens**, for an easier **access** to information

Communities and Stakeholders involvement  
stay tuned with us by looking at....



The project is funded by European Commission  
under CIP-ICT-PSI Pilot A grant No. 325232

[www.eenvplus.eu](http://www.eenvplus.eu)



**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 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](http://www.eenvplus.eu)

**eENVplus Office** ([office@eenvplus.eu](mailto:office@eenvplus.eu))  
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## Project Fact Sheet

January 2013

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### eENVplus provides tools addressing multi-level interoperability stack

<b>Systems of systems interoperability</b>	through a comprehensive open, scalable infrastructure able to link to existing infrastructures developed through international or national-level initiatives (e.g. the INSPIRE portal)
<b>Application-level interoperability</b>	through a set of software components that allow communication, through interoperable standards, between existing legacy applications and the eENVplus service ecosystem
<b>Inter-service interoperability</b>	through development of daily-chained services to allow creation of high-level functionalities from interconnection of interoperable lower-level services
<b>Service interoperability</b>	through a set of innovative on-line pre-built services facilitating the development of innovative applications
<b>Semantic interoperability</b>	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
<b>Data interoperability</b>	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

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### 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
- CSpire - 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 Geportal - Nature conservation data in Iceland, pilot in Iceland
- Geological Map Harmonization in Italy and Slovenia, cross-border pilot
- Urban Landuse Planning: INSPIRE'd land use planning Indicators to monitor good urban planning practices

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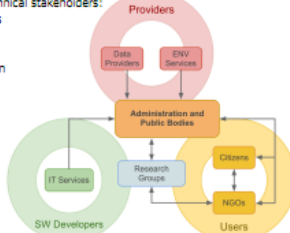
### Target Groups

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





## eENVplus Newsletters

- Foreseen to be published electronically periodically (6 months)
- Will highlight the progress of eENVplus, providing insight into the research, development, innovation and Pilots activities.
- The newsletter is managed by a Email Marketing and Email List Manager (Mailchimp).
- This will assure a complete and accurate management of the email campaigns and subscribers.
- All issues will be publicly available online and also downloadable through the eENVplus website.

## eENVplus Newsletter issue #1 (draft)

eENVplus Newsletter is a periodic free-of-charge publication, published by the eENVplus Consortium.




The project is funded by European Commission under CIP-ICT-PSP Pilot A grant No. 325232

### eEnvironmental services for advanced applications within INSPIRE

#### Newsletter No. 1 - About eENVplus (June 2013)

The first half of the initial phase is over and thus this Newsletter is bringing the introduction and pilot applications... bla bla...

The Newsletter is foreseen to be published electronically periodically (6 months) for public access through the eENVplus website (with its final issue to be also printed). The newsletter will highlight the progress of eENVplus, providing insight into the research, development, innovation and Pilots activities.

#### About eENVplus

It is a Pilot Type A project, funded by European Union under the Competitiveness and Innovation Framework Programme – Information and Communication Technologies Policy Support Programme (CIP-ICT-PSP) grant No. 325232.

The eENVplus project was launched in January 2013. It 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.

→ [More](#) →

#### Multi-level Interoperability Stack

eENVplus provides tools address 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
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- Data interoperability: through a comprehensive toolkit with guidelines and examples for data harmonisation and validation to support the Member States in the application of the INSPIRE implementation rules



#### Upcoming Events

24/06/2013  
eENVplus Workshop  
14:00, Room 4  
INSPIRE Conference 2013



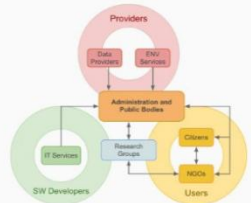
#### Partnership

GISIS  
VMM / IRCEL-CELINE  
CNR-IMATI  
EPSILON  
SINERGIS  
GRAPHITECH

#### Target Groups

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- administrations and public bodies/agencies at different levels
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#### Pilots

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

- EP01 - Implementation of a SES for air quality data, pilot in Belgium
- EP02 - Implementation of a SES for air quality data, pilot in Italy
- EP03 - Providing INSPIRE compliant access to utility services: the case of sewage networks in Flanders, pilot in Belgium
- EP04 - CSpire - Everyday life issues connected to Environmental aspects in Czech Republic and Slovakia, cross-border pilot
- EP05 - Natural Areas INSPIRE Compliance Toolbox, pilot in France
- EP06 - Forest Fire Management, pilot in Greece
- EP07 - Window on the Protected Areas - Mobile Conservation Map in Hungary and Slovakia, cross-border pilot
- EP08 - INSPIRE Geoportal - Nature conservation data in Iceland, pilot in Iceland
- EP09 - Geological Map Harmonization in Italy and Slovenia, cross-border pilot
- EP10 - Urban Landuse Planning: INSPIRE'd land use planning indicators to monitor good urban planning practices, pilot in Portugal

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## eENVplus website ([www.eenvplus.eu](http://www.eenvplus.eu))

- Currently the website is being updated and new sections will be added in the near future
- A subscription mechanism has been set up to permit visitors to receive email newsletters on the status and progress of the project
- For each Pilot a dedicated section has been created
- A section will be dedicated to the eENVplus Training Framework

## eENVplus website ([www.eenvplus.eu](http://www.eenvplus.eu))

[Home](#)
[What is eENVplus?](#)
[Consortium](#)
[Pilots](#)



*eEnvironmental services for advanced applications within INSPIRE*

**Welcome to eENVplus**

This is the prime access point to the eENVplus world (eENVplus Infrastructure, Pilots, Training Framework); it serves as the main dissemination and awareness tool, providing the external institutions with the essential information on the project and its progress. The web site will make available the content derived from the project output such as presentations, publications and demonstrations. It will provide updated news and events (including proceedings) related to the project scope.

**About eENVplus**

- What is eENVplus?
- Consortium
- News & Events

**Pilot Applications**

- Pilots
- INSPIRE Data Themes

**News and events**

- EnviroInfo 2013  
April 29, 2013
- ICT 2013  
April 29, 2013
- INSPIRE Conference 2013  
March 8, 2013

**eENVplus Community websites**

Management and collaboration website

**Subscribe to our mailing list**

Email Address

First Name

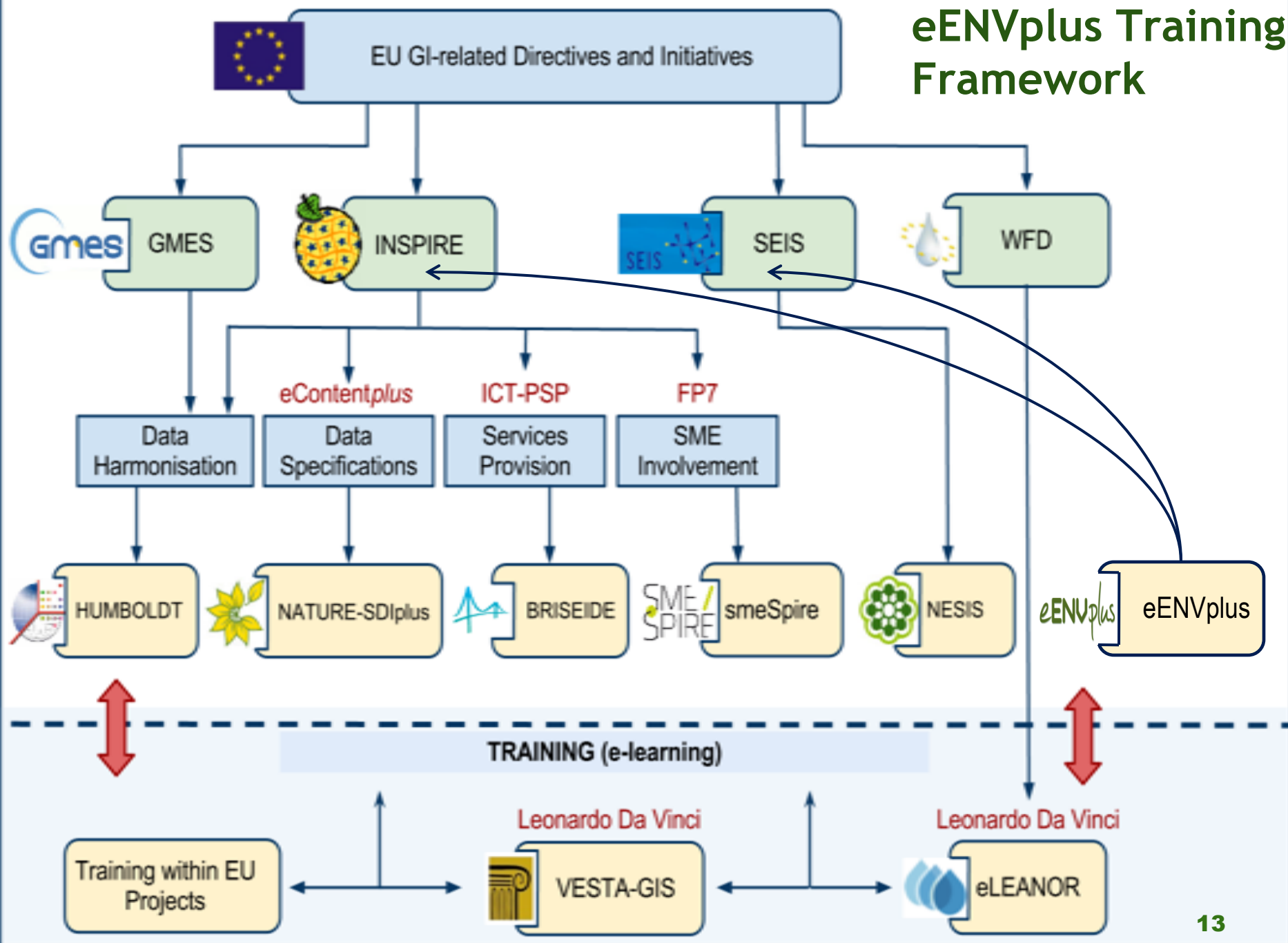
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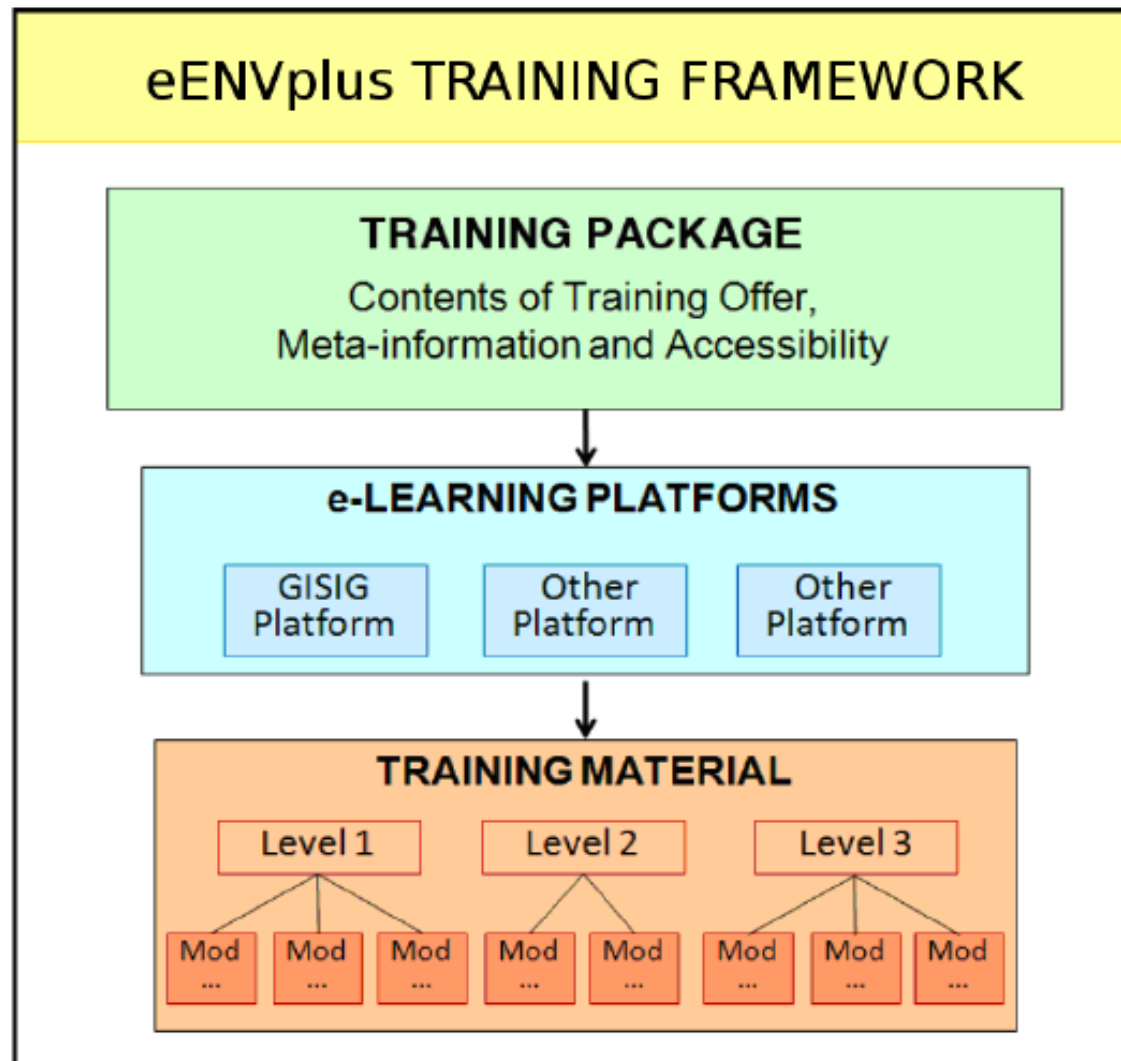
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# eENVplus Training Framework





## 1 - Knowledge Background

Directives/ Technologies

Toward the ICT implementation of SEIS

Good practices in Environment Management

- Metadata
- Data Harmonisation
- Standards in Geographical Information
- Basic of Web Services
- The INSPIRE Directive
- Tools for Metadata creation and editing
- Towards the ICT implementation of SEIS
- Good Practices for Environmental Management

## 1 - Knowledge Background

### Thematic Knowledge

- Risk Management
- Water Directives
- Nature Conservation and Natura 2000 Network
- Nature Conservation and INSPIRE
- Geological harmonisation and INSPIRE



## 2 - eENVplus technical modules

eENVplus infrastructure

Services

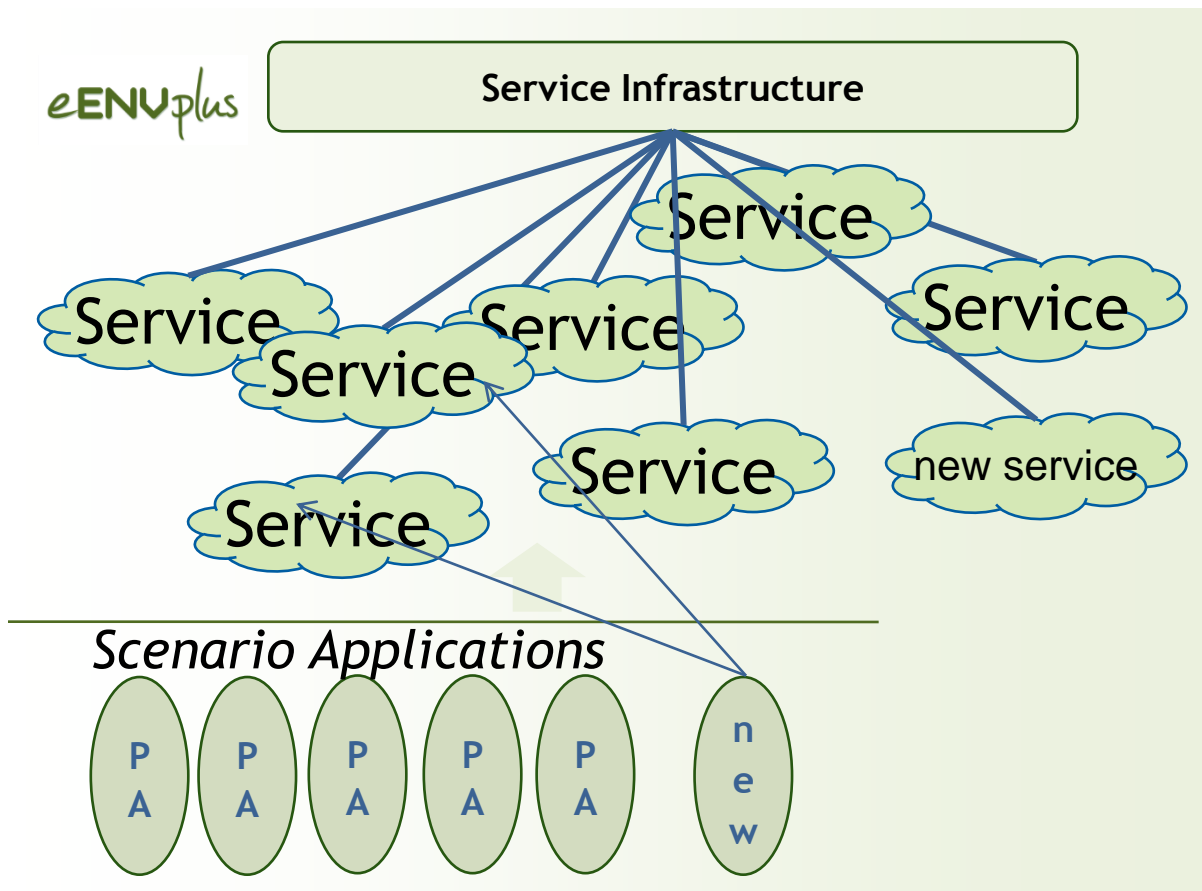
User guides

## 3 - eENVplus scenarios

Scenario Title	Environmental Aspect
Implementation of a SEIS for air quality data	Air Quality
Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders	Water
CSspire	Everyday life issues connected to Environmental aspects
Natural Areas INSPIRE Compliance Toolbox	Nature Conservation
Forest Fire Management Scenario	Environmental Risk (Fire)
Window on the Protected Areas - Mobile Conservation Map (WMA MCM)	Nature Conservation
INSPIRE Geoportal	Nature conservation
Geological Map Harmonization	Environmental Risk (Geohazard)
Urban Landuse Planning: INSPIRE'd land use planning Indicators to monitor good urban planning practices	Ecological Landuse Planning

- The eENVplus Sustainability will be based on:
  - Development of additional service components, additional scenarios
  - Data ingestion and adaptation, necessary to ensure use of non-compliant data repository within eENVplus.
  - Customisation of existing infrastructures to ensure integration with eENVplus.
  - Software as service, where commercial stakeholders can base their revenues either through the existing services or customised services.
  - Training actions
  - Active participation of the network in the INSPIRE maintenance process

- eENVplus Infrastructure is the base for including new applications and new services also within future projects at a European and National level



- eENVplus will be then the Framework for implementing/use/sharing eEnvironmental services



- That will be part of the long term sustainability plan after the project conclusion

Thank in advance for your active  
participation in the eENVplus  
network