

The eENVplus on-line Training Action

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Reykjavík (IS), 29 -30 April 2015



Copernicus



INSPIRE



SEIS



WFD



Data Harmonisation

Data

Harmonisation

HUMBOLDT

NESIS



GeoSmartCity



LIFE+IMAGINE



LINKVIT

TRAINING (e-learning)

Training within EU Projects

Leonardo Da Vinci

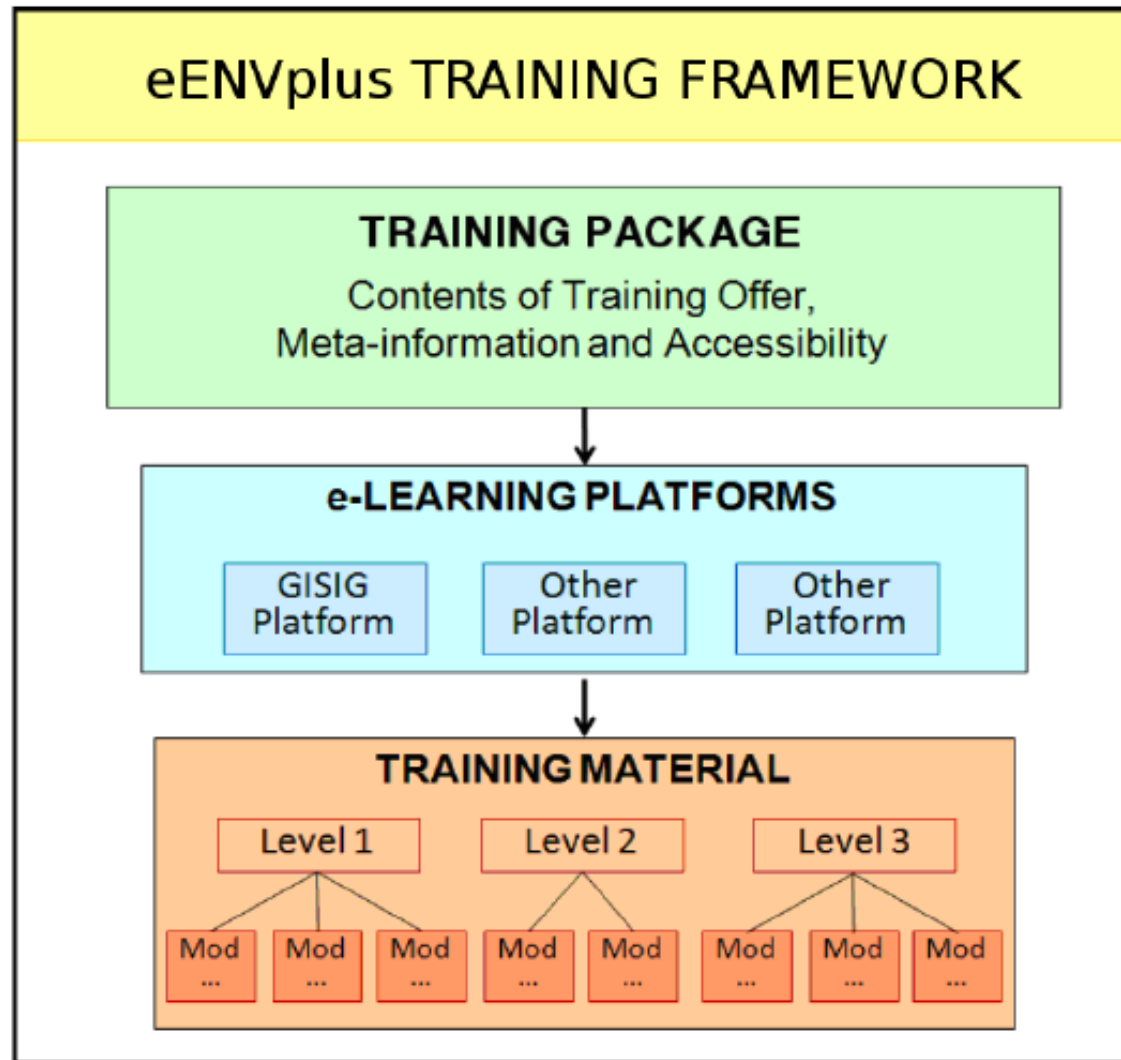


VESTA-GIS

Leonardo Da Vinci



eLEANOR



- Constitute the infrastructure(s) hosting the training modules and training material.
- Established by widely diffused open source e-learning tools.
- Open to the project members and (open registration) to the users Communities.
- Once subscribed to the Module (or Modules), the user is redirected to an e-learning platform with personalized access.
- Decentralised: Training Material is hosted in different platforms.
- Training material developed on a variety of formats: Presentations with voice, screencasts, plain text lectures, exercises, etc.
- Allows monitoring the user progress and students/ teachers interaction.

The eENVplus Training Framework

A Training Framework will be designed as a cornerstone of the project to make available existing knowledge and transfer developed skills to the target groups of users. In this context, training activities will strictly complement and support dissemination and exploitation, fostering Capacity Building. Training will be implemented through an **open source e-learning platform** offering a training package based on specific and thematic vocational training curricula and different learning paths aiming at maximising the re-use of existing tools and training materials successfully tested in the frame of previous EU funded projects.

Training Impact

Our training will provide to the target audience of eENVplus (especially National/Regional Environmental Agencies) the **advanced skills required to cope with the INSPIRE implementation process**, knowledge related to the new ICT dimension of the environmental data (e-environment) and the documentation and the necessary means to interact, benefit and adopt the eENVplus Infrastructure.

Subscribe to the eENVplus Training Modules

SUBSCRIBE TO THE MODULES

The eENVplus Training Modules

The Training Package is organised in the following levels:

Level 1: Background Knowledge Knowledge on Directives/ Technologies

- + Data Harmonisation (Module available)
- + Basics of INSPIRE Data Specifications (Module available)
- + Basics of INSPIRE Network Services (Module available)
- + Introduction to INSPIRE (Module available)

The aim of this module is to introduce the INSPIRE Directive, its background, development and expected impact.

MODULE METADATA

- + Basics of INSPIRE Data and service sharing (Module available)

eENVplus website:

Training section

- Access to the Module list
- Access to the e-Learning Platform
- For each module access the Metadata

eENVplus Project

eENVplus Services

eENVplus Pilots

eENVplus Training

Basics of INSPIRE Data and service sharing

CSpire

Data Harmonisation

eENVplus Services

Introduction to Linked Data

Introduction to INSPIRE

Basics of INSPIRE Data Specifications

Basics of INSPIRE Network Services

Procedures for Data and Metadata Harmonization

Towards the ICT implementation of SEIS

Good Practices for Environmental Management

Introduction to INSPIRE

Source

Earlier versions of this training module have been developed within the VESTA-GIS project in 2009 (<http://www.vesta-gis.eu/>), the Nature-SDIPlus project in 2010 (<http://www.nature-sdi.eu/>) and within the Educational Services Programme (EduServ) of EuroSDR in 2010 and 2011 (<http://www.eurocdr.net>).

Ownership

Author: Danny Vandenbroucke, KU Leuven. The material is provided under Creative Commons Attribution Share-Alike License (<http://creativecommons.org/licenses/by-sa/3.0/>).

Abstract

The INSPIRE initiative was initiated by the European Commission in 2001 to enhance the sharing of harmonized spatial data and services between public authorities in order to assist environmental policy-making and activities that may have a direct or indirect impact on the environment. The INSPIRE Directive entered into force in May 2007. Member States transposed the Directive into national legislation and started to implement INSPIRE components: setting-up a coordinating structure, harmonizing spatial data, developing network services to access the data, maintaining metadata for spatial data & services, and putting in place measures to improve data & service sharing.

This module deals with the main elements of the INSPIRE Directive: its context and background, the scope and major chapters of the Directive, an overview of the related implementing rules, the conformity of spatial data and services, and the potential for new innovative solutions based on INSPIRE. The module also pays attention to the relationship between INSPIRE and other Directives such as the Directive 2003/98/EC on the re-use of public sector information (PSI) and Directive 2003/4/EC on public access to environmental information. The training material consist of presentations, supporting documents and a weblecture. The module is a self-learning module.

Common Metadata template

Structured in a clustering training perspective to allow interoperability of training modules within different project Training Frameworks.

- Format
- Expected workload

The Training Framework is structured in 4 levels:

- ❑ **Level 1: Background Knowledge** (*Knowledge on Directives/ Technologies*)
- ❑ **Level 2: Thematic Knowledge** (*Knowledge on specific related knowledge areas*)
- ❑ **Level 3: The eENVplus Infrastructure** (*Knowledge on the technical outcomes of eENVplus*)
- ❑ **Level 4 - eENVplus scenarios** (*These modules will be available in a later stage of the project*)

Level 1: Background Knowledge (Knowledge on Directives/ Technologies)	
1.1	Introduction to INSPIRE
1.2	Basics of INSPIRE Data and service sharing
1.3	Basics of INSPIRE Data Specifications
1.4	Basics of INSPIRE Network Services
1.5	Data Harmonisation
1.6	Procedures for Data and Metadata Harmonisation
1.7	Towards the ICT implementation of SEIS
1.8	Good Practices for Environmental Management
1.9	Introduction to Linked Data

Level 2: Thematic Knowledge (Knowledge on specific related knowledge areas)

2.1	Water Directives
2.2	Nature Conservation and Natura 2000 Network
2.3	Nature Conservation and INSPIRE
2.4	Risk Management
2.5	Geological Data Harmonisation

Level 3: The eENVplus Infrastructure (Knowledge on the technical outcomes of eENVplus)	
3.1	Examples of Data Transformation
3.2	Metadata and Data validation for INSPIRE
3.3	The eENVplus Architecture
3.4	The eENVplus Thesaurus Framework
3.5	The eENVplus services
	<p><i>Components of the eENVplus services Modules (context: WP5 Services Platform):</i></p> <ul style="list-style-type: none"> eENVPlus Web Processing Services eENVPlus Crowdsourcing Services eENVPlus Ingestion service eENVPlus Notification service eENVPlus Data access services eENVPlus Validation service
3.6	eENVplus catalogue and connection to operational infrastructures
3.7	Mobile Mapping and advanced visualisation

Level 4 – eENVplus scenarios (These modules will be available in a later stage of the project).	
4.1	Implementation of a SEIS for air quality data
4.2	Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders
4.3	CSspire
4.4	Natural Areas INSPIRE Compliance Toolbox
4.5	Forest Fire Management Scenario
4.6	Window on the Protected Areas – Mobile Conservation Map (WMA MCM)
4.7	NLSI - Mobile application for Nature Conservation (INSPIRE Geoportal)
4.8	Geological Map Harmonization
4.9	Urban Landuse Planning: INSPIRE'd land use planning Indicators to monitor good urban planning practices

The training actions are scheduled from 2015, forming "classes" grouped according to the following professional profiles:

- Managers
- Professionals
- End Users

For each professional profile are provided training packages with different modules for each profile.

Recommended core training modules [max 15 +2]	Optional modules
Context knowledge	
1.1 Introduction to INSPIRE [4]	1.3 Basics of INSPIRE Data Specifications
1.5 Data Harmonization [8]	1.4 Basics of INSPIRE Network Services
1.9 Introduction to Linked Data [3]	1.7 Towards the ICT implementation of SEIS
	1.8 Good Practices for Environmental Management
	Level 2 Modules, according to the thematic interest
Project specific	
3.3 The eENVplus Architecture [2]	Other modules of Level 3
	Level 4 Modules, according to the thematic interest

Recommended [max 26 + 25]	Optional
Context knowledge	
1.1 Introduction to INSPIRE [4]	1.9 Introduction to Linked Data
1.2 Basics of INSPIRE Data and service sharing [4]	Level 2 Modules, according to the thematic interest
1.3 Basics of INSPIRE Data Specifications [4]	
1.4 Basics of INSPIRE Network Services [4]	
1.5 Data Harmonization [8]	
1.6 Procedures for Data and Metadata Harmonisation [2]	
Professional modules	
3.1 Example of Data Transformation [2]	1.6 Towards the ICT implementation of SEIS
3.2 Metadata and Data validation for INSPIRE [2]	1.7 Good Practices for Environmental Management
3.3 The eENVplus architecture [2]	Level 4 Modules, according to the thematic interest
3.4 The eENVplus Thesaurus Framework [3]	
3.5 The eENVplus services [8]	
3.6 eENVplus catalogue and connection to operational infrastructures [4]	
3.7 Mobile Mapping and advanced visualisation [4]	14

Recommended [max 4 +14]	Optional
Context knowledge	
1.1 Introduction to INSPIRE	1.3 Basics of INSPIRE Data Specifications
	1.4 Basics of INSPIRE Network Services
	1.8 Good Practices for Environmental Management
	Level 2 Modules, according to the thematic interest
Project specific	
3.3 The eENVplus architecture	Other modules of Level 3
3.5 The eENVplus services	Level 4 Modules, according to the thematic interest
3.7 Mobile Mapping and advanced visualisation	

The training actions are organised in cooperation with the NAs **in their respective countries** and are structured **with training workshops** (that will be one of the sessions of the National workshops) followed by assisted **self learning sessions** and a training forum at country level

Training Action Scheme:

- First step: an initial Workshop (30 April) to present the basic content and the structure of the different modules
- Registration - NAs to collect the list of participants
- Distance Learning (self - learning) based on the proposed Curricula, phase 1 on the Level 1 - Background Knowledge

Training Action Scheme:

- An interim training workshop (via teleconference) to monitor the progress and to support the intermediate feedback from the attendees
- Second (final) self-learning phase
- At the end of the self-learning process, the participants in the training action will be requested to answer to an evaluation questionnaire
- A concluding teleconference workshop with a discussion on the feedback (evaluation) from the training action

ICELAND Training Action - Draft Agenda

Event	Start	End
Initial Workshop	30/04/2015	
Training Action Registration	30/04/2015	15/05/2015
eLearning first phase (Background Modules)	16/05/2015	13/06/2015
Intermediate Workshop	15/06/2015	
eLearning second phase (all the other Modules)	16/06/2015	28/09/2015
Final evaluation workshop	28/09/2015	

Training Action page :

All the registered participants to the training action, will receive a message with further indications to follow the training action.

➔ In particular, a link to the “training action” web page, with all the necessary information and references.

eENVplus Training Action Iceland

Resources

Discussion Forum

Post here your questions, doubts and problems (relative to the platform or on the contents of the training modules)

[FORUM](#)

Downloadable training modules evaluation form

MS Word version of the online questionnaires

[EVALUATION FORM](#)

Participants

List of participants in the training action

[PARTICIPANTS](#)

Introductory workshop presentations

Download the presentations of the workshop (29 April 2015)

[PRESENTATIONS](#)

Contact us

Technical support and assistance

[CONTACT US](#)

Calendar

Initial workshop

30 April 2015

Training Action registration

30 April – 15 May

e-Learning first phase
(Background Modules)

16 May – 13 June

intermediate workshop

15 June

e-Learning second phase (All the other Modules)

16 June - 28 September

final evaluation seminar

28 September

Training profiles

Select your profile to access the page with the training modules offered

Manager

[ACCESS THE LEARNING PATH >>](#)

Professional

[ACCESS THE LEARNING PATH >>](#)

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Training Action Island

The forum is a section that allows members of the course to communicate in a structured way through messages. It can be used for questions, concerns and problems (of a technical nature relating to the platform or on the contents of the modules). For a correct use of the forum each intervention must contain:

- the course and / or module to which you are subscribed
- a detailed description of the problem or doubt about the form

[Add a new discussion topic](#)

(There are no discussion topics yet in this forum)

eENVplus Training Action Iceland

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- Contribution requested the participants in the training action in order to improve the content of the modules and their usability
- Also required as “confirmation of participation” for those who want to apply for a certificate of participation
- .doc format, if useful to the **online filling**
- The questionnaire is studied in such a way to allow a detailed feedback on the quality of training itself, in terms of material, methodology, tutoring, didactic approach.

The Evaluation Questionnaire is divided into two parts:

Part 1:

- Comments on the use of the eLearning platform (navigation, organisation of the material, available tools), and linkage and impact on working activities, if applicable..

Part 2:

- At module level how long it takes to follow the course
- Comments on the content
- Comments/Proposal for modification on individual points of the module

Profilo formativo: Esperto ICT

Nota importante:

> *Consigliamo vivamente di seguire i moduli nell'ordine specificato nella tabella.*

Parte 1

Questionario generale di valutazione dell'azione formativa

> *I partecipanti sono pregati di compilare questo questionario obbligatorio al termine dell'azione di formazione*

QUESTIONARIO GENERALE

Moduli obbligatori



Moduli consigliati



Moduli opzionali



Moduli introduttivi ad INSPIRE

Parte 2

Introduzione a INSPIRE

+ INFORMAZIONI

MODULO ITALIANO

MODULO INGLESE

QUESTIONARIO

Portali europei geospaziali come interfacce utente SDI

+ INFORMAZIONI

MODULO ITALIANO

MODULO INGLESE

QUESTIONARIO

Concetti di base sullo scambio dati e servizi INSPIRE

+ INFORMAZIONI

MODULO ITALIANO

MODULO INGLESE

QUESTIONARIO

Concetti di base di XML e GML

+ INFORMAZIONI

MODULO INGLESE

QUESTIONARIO

**Don't forget to register and
have a good Training Action!!!**

Thank you for the attention!