

eENVplus

Scenari e casi di applicazione

ISPRA- Servizio Geologico d'Italia
Carlo Cipolloni

Workshop Conferenza ASITA 7 Novembre 2013

eENVplus Scenari e aree pilota

- 9 differenti scenari ambientali suddivisi in:
 - 10 casi pilota.

Scenario	Aspetto ambientale	Area pilota
Implementazione in ambito SEIS dei dati della qualità dell'area	Qualità dell'aria	BELGIO
		ITALIA
Fornire un accesso INSPIRE compatibile a servizi di utilità: il caso della rete fognaria delle Fiandre	Acque di scarico	BELGIO
CSspire	Problemi di ogni giorno connessi agli aspetti ambientali (agricoltura, acqua, servizi, ecc.)	REPUBBLICA Ceca/ SLOVACCHIA
Strumenti per le Aree Naturali INSPIRE Compatibili	Conservazione della Natura	FRANCIA
Gestione degli incendi boschivi	Environmental Risk (Fire)	GRECIA
Una finestra sulle Aree Protette- Applicazione Mobile per una carta della conservazione	Conservazione della Natura	UNGHERIA/ SLOVACCHIA
Geoportale INSPIRE	Conservazione della Natura	ISLANDA
Armonizzazione dei dati geologici	Rischi ambientali (Geohazard)	ITALIA/ SLOVENIA
Pianificazione Urbanistico - Ecologica dell'uso del suolo	Pianificazione Ecologica dell'uso suolo	PORTOGALLO



■ 3 Pilota transfrontalieri:

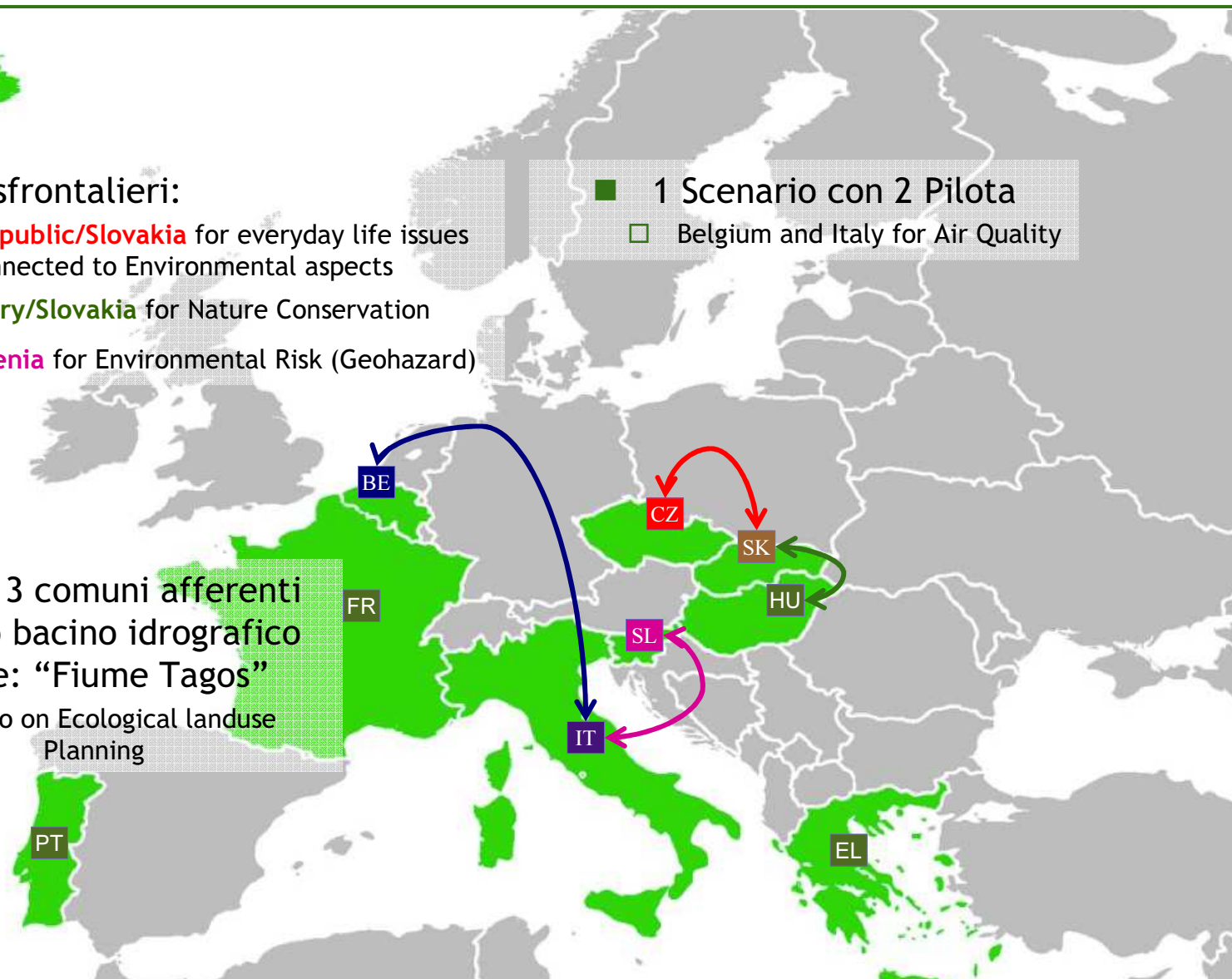
- **Czech Republic/Slovakia** for everyday life issues connected to Environmental aspects
- **Hungary/Slovakia** for Nature Conservation
- **Italy/Slovenia** for Environmental Risk (Geohazard)

■ 1 Scenario con 2 Pilota

- Belgium and Italy for Air Quality

■ 1 Pilota con 3 comuni afferenti ad un stesso bacino idrografico confinante: “Fiume Tago”

- Scenario on Ecological landuse Planning



- All'interno di ogni applicazione dei piloti sono stati definiti i casi d'uso per un totale di 25.
- I partner tecnici hanno stabilito una procedura di analisi dei casi d'uso per estrarre "user and system requirements".
- I requisiti selezionati (circa 190) hanno rappresentato la base delle specifiche tecniche per lo sviluppo dell'Infrastruttura e dei componenti di eENVplus.
- Sono stati collezionati i requisiti attraverso una piattaforma intranet di collaborazione (utilizzando un sistema di tracciamento e gestione).
- Al fine di risolvere conflitti e casi di dubbio sono stati fatti confronti diretti tra partner tecnici e responsabili dei piloti.

Raccolta dei casi d'uso e loro descrizione

10 Aree Pilota → 25 *Casi d'uso finali*

EP01 - Pilot in Belgium:
Scenario: Implementation of a SEIS for air quality data

- UC-EP01-01: The reporting service
- UC-EP01-02: Validation and official submission
- UC-EP01-03: Providing useful open services derived from the same data

EP02 - Pilot in Italy:
Scenario: Implementation of a SEIS for air quality data

- UC-EP02-01: National collection of reporting data
- UC-EP02-02: Official submission of National Reporting

EP03 - Pilot in Belgium:
Scenario: Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders

- UC-EP03-01: Consulting the sewage database for the expansion and maintenance of the sewage system and wastewater treatment infrastructure
- UC-EP03-02: Joint management tool for the sewage database
- UC-EP03-03: Dissemination of information on sewage system to all stakeholders

EP04 - Cross-border Pilot in Czech R. / Slovakia
Scenario: CSspire - Everyday Life Issues Connected to Environmental Aspects

- UC-EP04-01: I want to cut a tree down on land which is under my ownership (outside of the forest)
- UC-EP04-02: I want to use water from underground sources in a quantity greater than 500 qm/day (build a well and draw water)
- UC-EP04-03: I am seeking a quiet and clean place to build a cottage

EP05 - Pilot in France:
Scenario: Natural Areas INSPIRE Compliance Toolbox

- UC-EP05-01: Determine if the user is in or near a Protected site / a Biogeographical Region or an Habitat / Biotope zone
- UC-EP05-02: I've seen a species – Is there other around me?

EP06 - Pilot in Greece:
Scenario: Forest Fire Management

- UC-EP06-01: Awareness Phase, data acquisition, pre-processing and preparation
- UC-EP06-02: Emergency Phase

EP07 - Cross-border Pilot in Hungary / Slovakia
Scenario: Window on the Protected Areas - Mobile Conservation Map

- UC-EP07-01: Mobile Conservation Map (MCM) application

EP08 - Pilot in Iceland:
Scenario: INSPIRE Geoportal

- UC-EP08-01: Discover and Viewing, INSPIRE compliant services for nature conservation purpose
- UC-EP08-02: Crowd sourcing on environmental objects in Iceland

EP09 - Cross-border Pilot in Italy / Slovenia
Scenario: Geological Map Harmonization

- UC-EP09-01: Environmental risk (geo-hazard): landslide susceptibility map
- UC-EP09-02: Environmental risk (geohazard): analysis of flooding phenomena

EP10 - Pilot in Portugal
Scenario: Urban Landuse Planning

- UC-EP10-01: Delineation of study areas
- UC-EP10-02: Evaluate urban and rural growth
- UC-EP10-03: Evaluate and document data accuracy
- UC-EP10-04: Evaluate spatial planning impact on urban growth
- UC-EP10-05: Evaluate the impact of urban growth on air and water quality

Matrice di mappatura: casi d'uso vs funzionalità

Casi d'uso					Funzionalità																											
Pilot Number	Scenario Title	Pilot Responsible	Technical Responsible (Proposal)	Data Themes	Harmonisation Toolkit	Validation Toolkit	eENVplus Catalogue and connection	Mobile App	Thesaursus Exploitation Services			Data Access Services				Service										User Requirements (Issue)						
									TF for Metadata Compilation	TF for Data Discovery	TF for Semantic Explorative Search	Web Map Service (WMS)	Web Feature Service (WFS)	Web Coverage Service (WCS)	Catalogue Service for Web (CSW)	Sensor Observation Service (SOS)	Web Processing Service (WPS)	Orchestration Service	Reporting Service	Coordination Service	Validation Service	Ingestion Service and Work Flow	Advanced (3D/AR) Visualization Support Service	Other Functional requirements	User Interface	Usability	Performance	Operational	Security	Legal		
EP01	Implementation of a SEIS for air quality data	Olav Peeters (VMM-RIECLIN)	Olav Peeters (VMM-RIECLIN), Carmelo Attardo (GISIG), EPSIT	III.11 AM, III.7, EF, III.13 AC	EP01-01	EP01-02	EP01-03	EP01-03	EP01-03	EP01-03	EP01-03	All	All	All			All			EP01-01, EP01-02		All	All	EP01-03	EP01-03 (n)	EP01-02, EP01-03		EP01-03		EP01-02	EP01-03	
EP02	Implementation of a SEIS for air quality data	Giannini Luciana (ISPRa)	Giannini Luciana (ISPRa), Carmelo Attardo (GISIG), EPSIT	11. AMI	All	All			EP02-01			All	All						All	EP02-01, EP02-02	All		All		EP2-02 (2)	see admin. requirements						
EP03	Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders	Katleen Miserez (VMM), Kristof Dacoste (VMM)	Katleen Miserez (VMM), Roderic Molina (GISIG)	1.8. HY, III.6. US	All (n)	All (n)	All					All	All		All						EP03-03	All	All	see admin. requirements				All	All			
EP04	Caspite - Everyday Life Issues Connected to Environmental Aspects	Jarmila Cikankova (CENIA), Marek Ziacki (SAZP), Veronika Koskova (SAZP)	Marketa Hanzlova (GISIG)	1.6 CP, 1.8 HY, 1.9 PS, II.2 LC, III.5 HH, III.8 PF, III.4 LU (SK), III.6 US (SK), III.17-19 (SK)	All	All	Maybe					All	All		All		All	EP04-01, EP04-02, EP04-03				All		All (n)			All					
EP05	Natural Areas INSPIRE Compliance Toolbox	Sophie Gras (ATEN)	Stefano Piffer (GraphTech), Marketa Hanzlova (EPSIT)	1.9 PS, III.17 BR, III.18 HB, III.19 SD	All	All		All	All	All	All	All	All	All						EP05-02			All		All		All	All	EP05-02	All		
EP06	Forest Fire Management	Marc Bonazountas, Alkis Asfyakopoulos (EPSILON)	Giacomo Marinano (EPSIT)	II.2 LC, III.7, EF, III.14 MF	EP06-02	X					All		All	All					All	All			EP06-01(n), EP06-02		All							
EP07	Window on the Protected Areas - Mobile Conservation Map	Attila Andras Takacs (MRD), Bela Markus (GEO), Marek Ziacki, Veronika Koskova, Martin Koska (SAZP)	Stefano Piffer (GraphTech)	1.9. PA, I. 8. HY	EP07-03	EP07-01		EP07-01	EP07-01			EP07-02	EP07-01	EP07-00	EP07-01						EP07-01		EP07-01		EP07-01	EP07-01			EP07-01	EP07-01	EP07-01	EP07-01
EP08	INSPIRE Geoportal - Nature conservation data in Iceland	Eydla Lindal Fimbogadottir (NLS)	Jens Sluete (PKH), Dimitrios Karachalios (PKH)	1.1 RS, 1.4 AU, 1.9 PS, 1.7 TN	EP08-01	EP08-01	EP08-01 (n)		EP08-01	EP08-01	EP08-01	EP08-01	EP08-01		EP08-01 (n)									EP08-01 (n)				EP08-01				
EP09	Geological Map Harmonization	Marco Pantalone (ISPRa), Mateusz Novak (Geo2S)	Carlo Cipolletti (ISPRa), Stefano Pazzi (SINIRGIS), Stefano Piffer (GraphTech)	II.4. GE, II.1. EL (IT), I.7. TN (IT), III.12. NZ, I.8. HY (SI)	All	All	All			All	All	All	All	All	All	EP09-03		All	EP09-01, EP09-02, EP09-03			All	EP09-01, EP09-02	EP09-01, EP09-02	EP09-01, EP09-02	EP09-01, EP09-02	All	All	EP09-01, EP09-01	EP09-01	All	
EP10	Urban Landuse Planning: INSPIRE and use planning indicators to monitor good urban planning practices	Rui Reis, Maria Vale (DGT), Raquel Saraiva (DGT)	Rui Reis & Maria Vale (DGT), Roderic Molina (GISIG)	I. 4. AU, II. 3. OL, III. 1. SU, III. 4. LU	All	All		All				All	All				All	EP010-01, 02, 03, 04, 05				All	EP010-01, 02, 03, 04, 05		All (n)	All	All					
				Responsibilities (Assignee)	WP1, Giacomo Marinano (EPSIT) + SINIRGIS	TS.7, Jens Sluete + XXX (PKH)	Stefano Piffer (GRAPHTECH)	WP4, Marco De Martino (CHERMATI), Giovanni Marinano (EPSIT)	TS.3, Stefano Piffer (GRAPHTECH)	TS.3, Stefano Piffer (GRAPHTECH)	TS.3, Stefano Piffer (GRAPHTECH)	TS.3, Stefano Piffer (GRAPHTECH)	TS.3, Stefano Piffer (GRAPHTECH)	TS.3, Stefano Piffer (GRAPHTECH)	TS.4, Stefano Pazzi (SINIRGIS)	TS.4, Stefano Pazzi (SINIRGIS)	TS.5 (GISIG, VMM, ISPRa)	TS.6, Stefano Piffer (GRAPHTECH)	TS.3, Giacomo Marinano (EPSIT)	TS.3, Stefano Pazzi (SINIRGIS)	WPS, Stefano Piffer (GRAPHTECH)	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible	Technical Responsible

Sistema di tracciamento dei requisiti necessari

eENVplus user & system requirements are tracked in a shared system stimulating & structuring communication between partners.

Redmine (<http://www.redmine.org/>)
project management and
bug-tracking tool
GNU General Public License v2 (GPL)

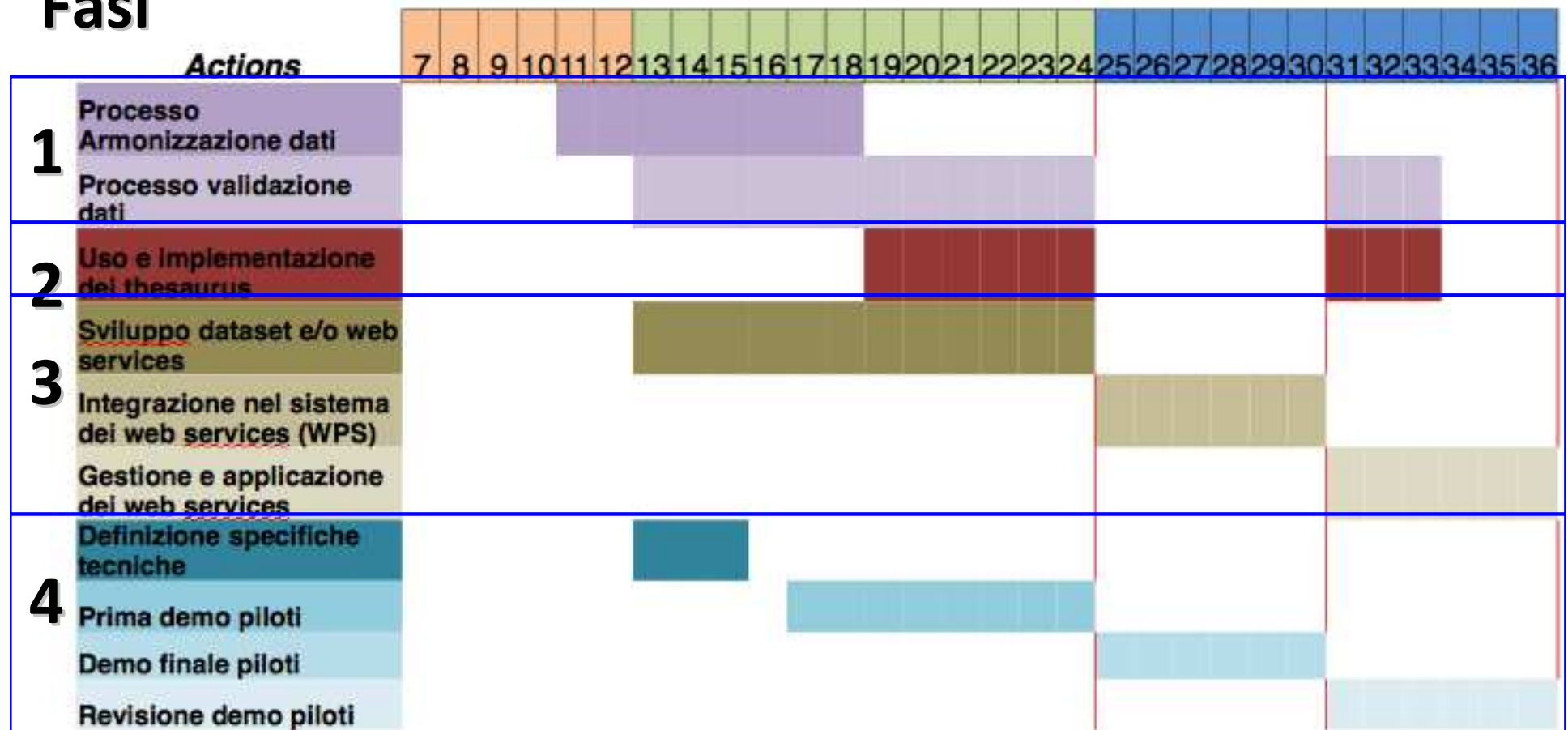


The screenshot displays the eENVplus interface within a Redmine project. The top navigation bar includes links for Home, My page, Projects, Administration, and Help. The user is logged in as 'admin'. The main content area shows the 'Requirements #103' page, which details a requirement for a 'WPS service for relevant data identification and retrieval'. The requirement is managed by Luca Giovannini and is currently in a 'New' state. The page includes a table of metadata (Status, Priority, Assignee, Category, Target version, Scenario, Services, Non-functional Requirements, Use Case ID) and a description of the service. A 'History' section shows recent updates to the requirement. The right sidebar lists 'Watchers' (Luca Giovannini, Maria Vale, Roderic Molina, Rui Reis, Stefano Pezzi) and provides links to view all issues, summary, calendar, and gantt. The bottom of the page indicates it is powered by Redmine and provides a copyright notice.

circa 190 requisiti

eENVplus Implementazione dei pilota

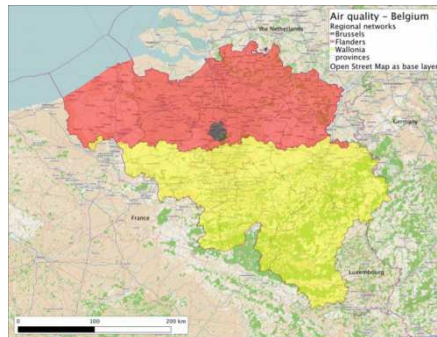
Fasi



eENVplus Sintesi casi d'uso - Pilota 1

EP01 - Pilot in Belgium:
Scenario: Implementation of a SEIS for air quality data

- UC-EP01-01: The reporting service
- UC-EP01-02: Validation and official submission
- UC-EP01-03: Providing useful open services derived from the same data



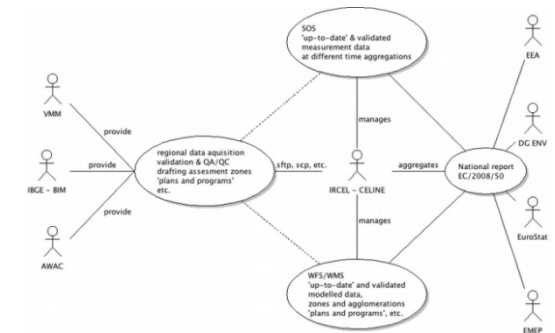
INSPIRE DATA THEME

III.7 EF

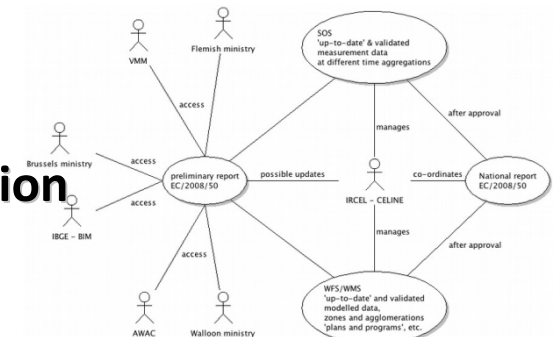
III.11 AM

III.13 AC

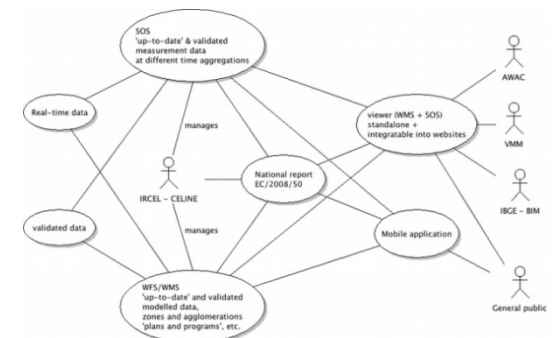
UC-EP01-01 The reporting service



UC-EP01-02 Validation and official submission



UC-EP01-03 Providing useful open services derived from the same data



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eENVplus Sintesi casi d'uso - Pilota 2

EP02 - Pilot in Italy:

Scenario: Implementation of a SEIS for air quality data

- UC-EP02-01: National collection of reporting data
- UC-EP02-02: Official submission of National Reporting

UC-EP02-01

National collection of reporting data

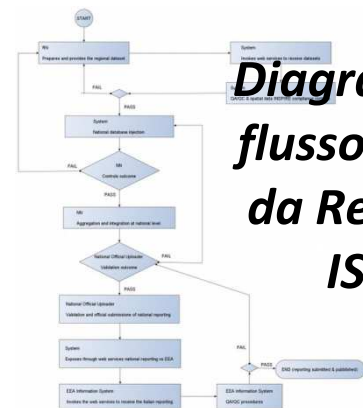
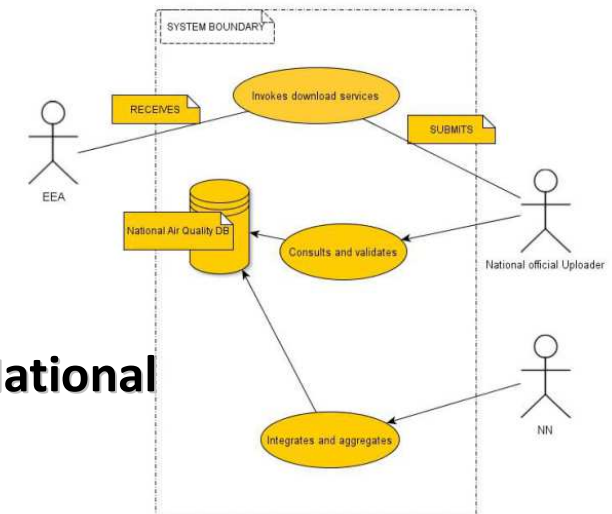
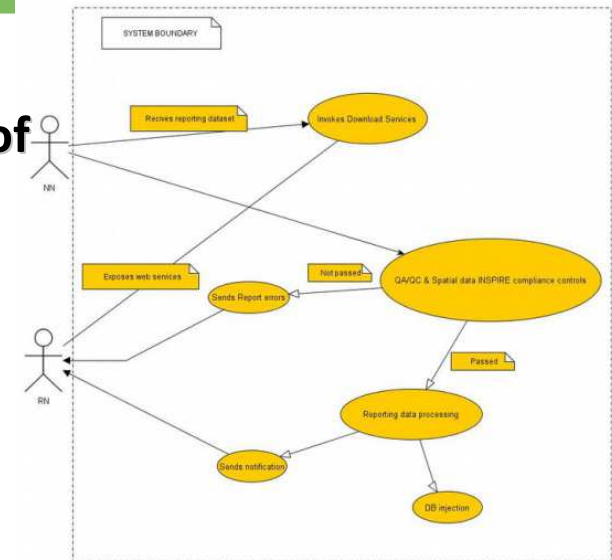


Diagramma di flusso dei dati da Regione a ISPRA



INSPIRE DATA THEME

III.11 AM

UC-EP02-02

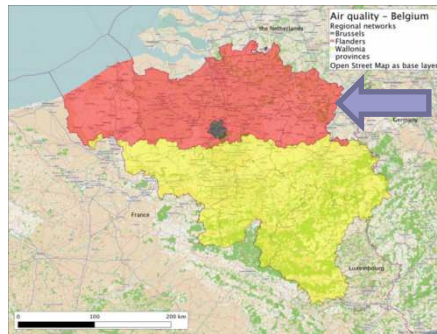
Official submission of National Reporting

eENVplus Sintesi casi d'uso - Pilota 3

EP03 - Pilot in Belgium:

Scenario: Providing INSPIRE-compliant access to utility services: the case of sewage networks in Flanders

- UC-EP03-01: Consulting the sewage database for the expansion and maintenance of the sewage system and wastewater treatment infrastructure
- UC-EP03-02: Joint management tool for the sewage database
- UC-EP03-03: Dissemination of information on sewage system to all stakeholders



INSPIRE DATA THEME

I.8 HY

III.6 US

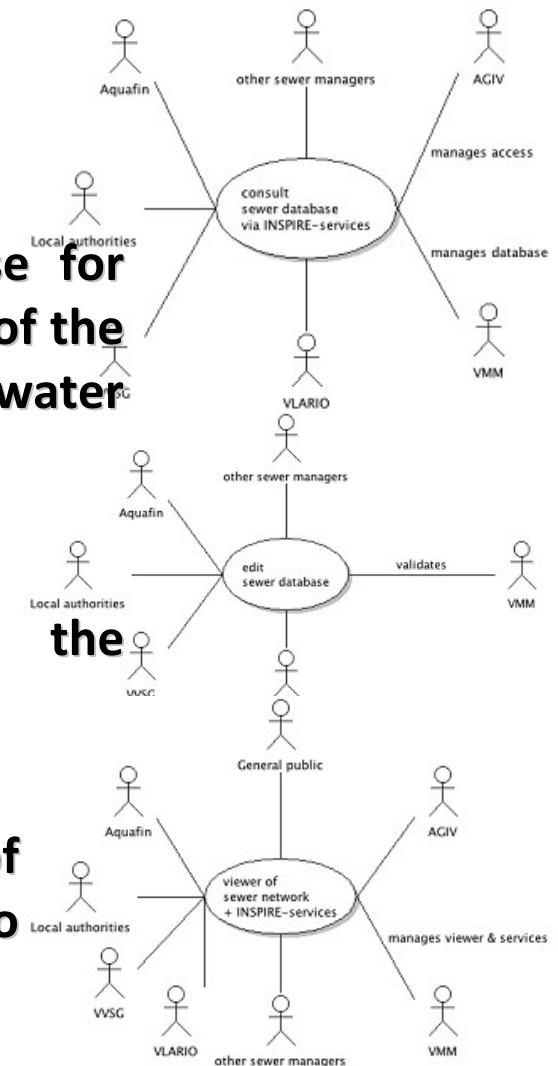
UC-EP03-01

Consulting the sewage database for the expansion and maintenance of the sewage system and wastewater treatment infrastructure

UC-EP03-02

Joint management tool for the sewage database

UC-EP03-03 Dissemination of information on sewage system to all stakeholders



eENVplus Sintesi casi d'uso - Pilota 4

EP04 - Cross-border Pilot in Czech R. / Slovakia

Scenario: CSspire - Everyday Life Issues Connected to Environmental Aspects

- UC-EP04-01: I want to cut a tree down on land which is under my ownership (outside of the forest)
- UC-EP04-02: I want to use water from underground sources in a quantity greater than 500 qm/day (build a well and draw water)
- UC-EP04-03: I am seeking a quiet and clean place to build a cottage



INSPIRE DATA THEME

I.6 CP

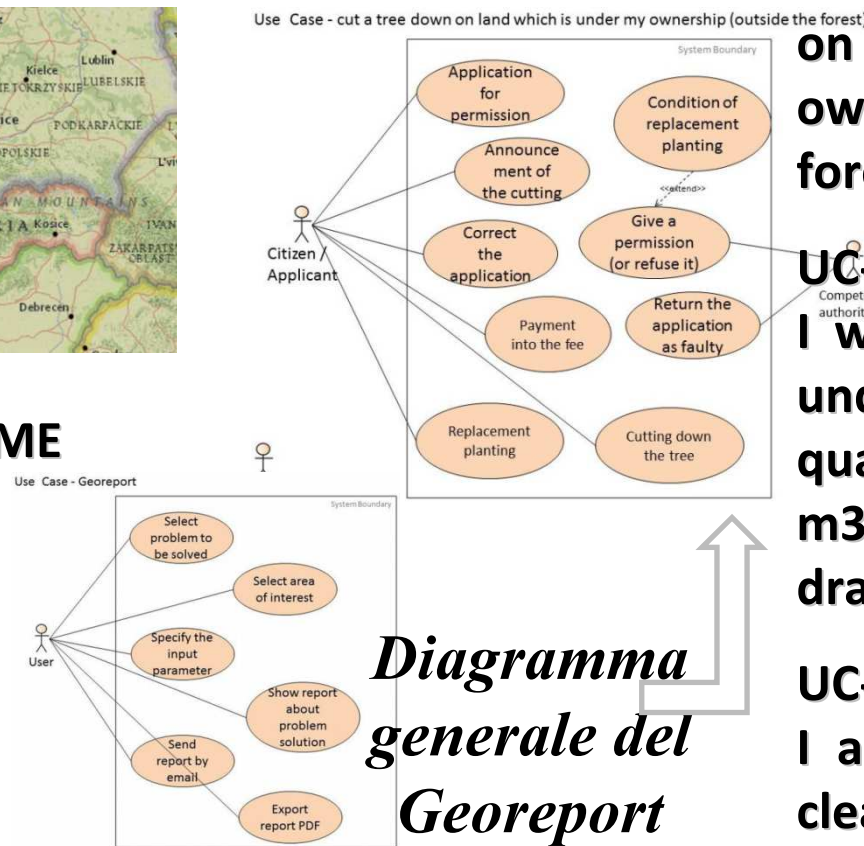
I.9 PS

II.2 LC

III.4 LU

III.6 US

III.8 PF



UC-EP04-01

I want to cut a tree down on land which is under my ownership (outside of the forest)

UC-EP04-02

I want to use water from underground sources in a quantity greater than 500 m3/day (build a well and draw water)

UC-EP04-03

I am seeking a quiet and clean place to build a cottage

eENVplus Sintesi casi d'uso - Pilota 5

EP05 - Pilot in France:
Scenario: Natural Areas INSPIRE Compliance Toolbox

- UC-EP05-01: Determine if the user is in or near a Protected site / a Biogeographical Region or an Habitat / Biotope zone
- UC-EP05-02: I've seen a species – Is there other around me?



INSPIRE DATA THEME

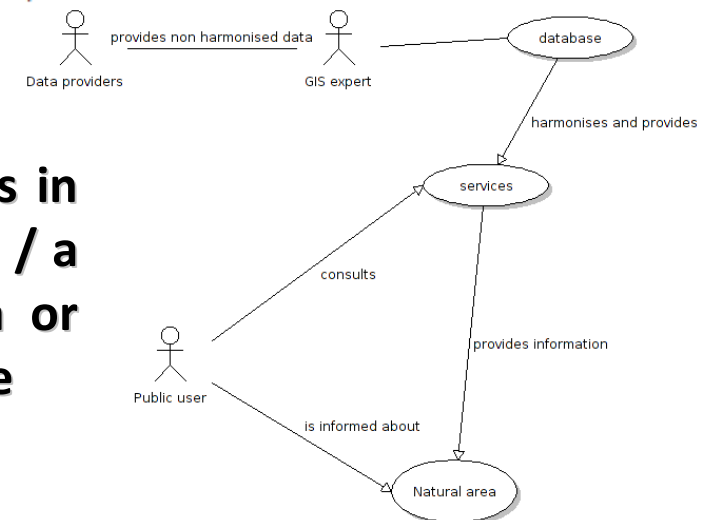
I.9 PS

III.17 BR

III.18 HB

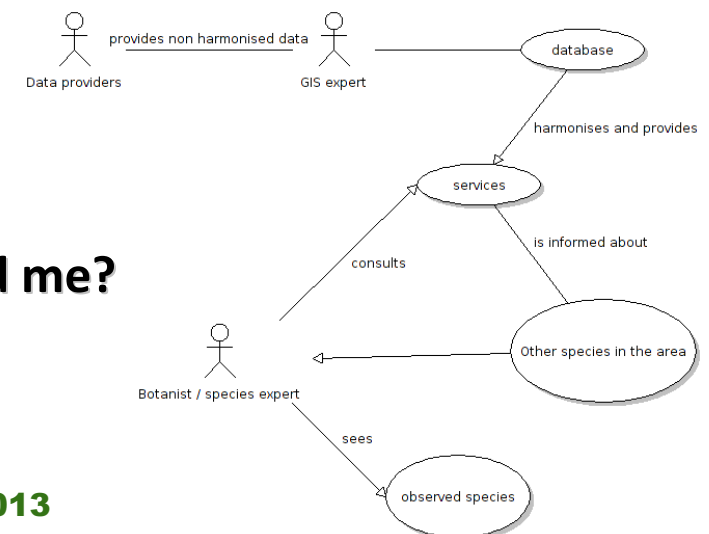
UC-EP05-01

Determine if the user is in or near a Protected site / a Biogeographical Region or a Habitat / Biotope zone



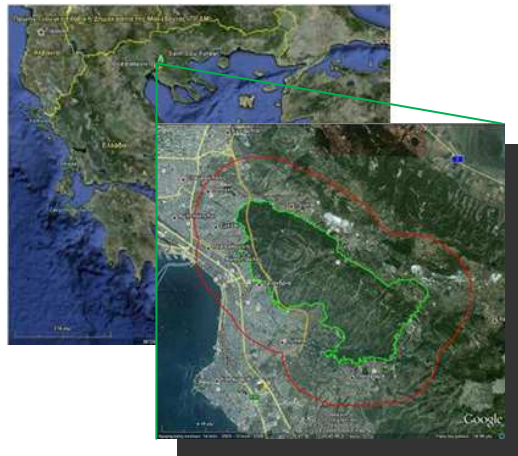
UC-EP05-02

**I've seen a species –
Are there others around me?**



EP06 - Pilot in Greece:
Scenario: Forest Fire Management

- UC-EP06-01: Awareness Phase, data acquisition, pre-processing and preparation
- UC-EP06-02: Emergency Phase



INSPIRE DATA THEME

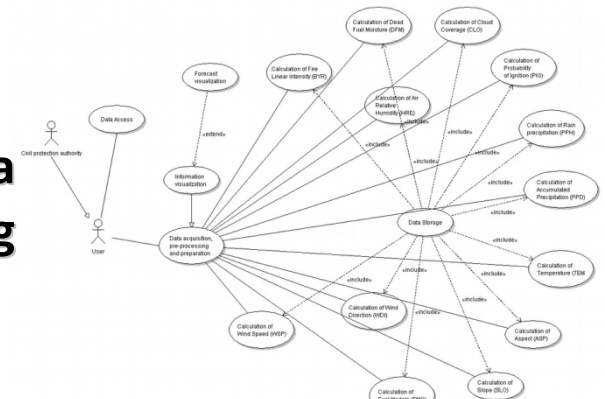
11.2 LC

III.7 EF

III.12 NZ

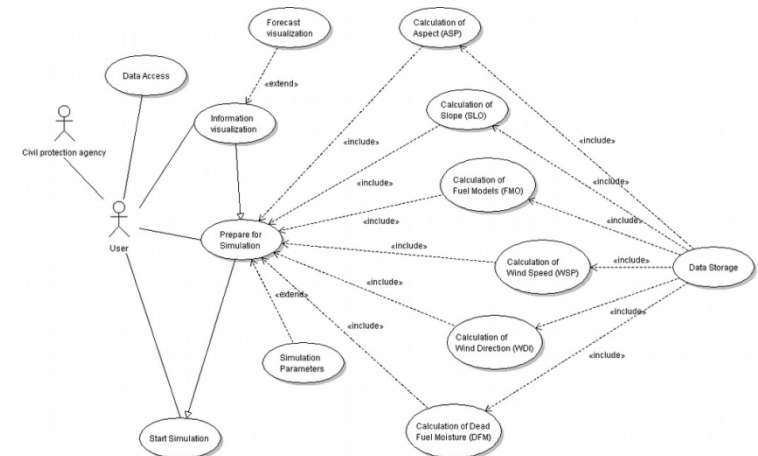
III.14 MF

UC-EP06-01
Awareness Phase, data acquisition, pre-processing and preparation



UC-EP06-02

Emergency Phase



eENVplus Sintesi casi d'uso - Pilota 7

EP07 - Cross-border Pilot in Hungary / Slovakia
Scenario: Window on the Protected Areas - Mobile Conservation Map

- UC-EP07-01: Mobile Conservation Map (MCM) application



INSPIRE DATA THEME

I.8 HY

I.9 PS

UC-EP07-01 Mobile Conservation Map (MCM) application



eENVplus Sintesi casi d'uso - Pilota 8

EP08 - Pilot in Iceland:
Scenario: INSPIRE Geoportal

- UC-EP08-01: Discover and Viewing, INSPIRE compliant services for nature conservation purpose
- UC-EP08-02: Crowd sourcing on environmental objects in Iceland



INSPIRE DATA THEME

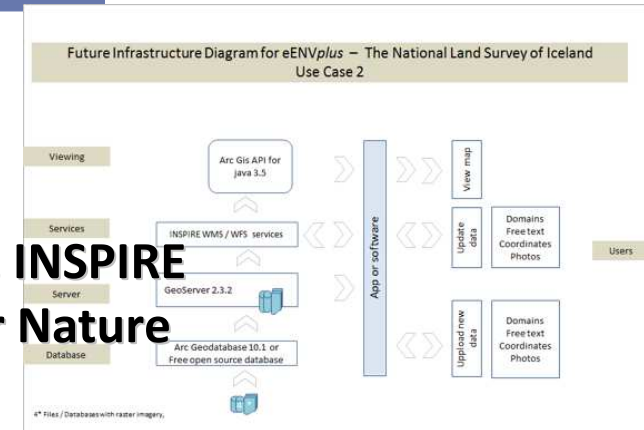
I.1 RS

I.4 AU

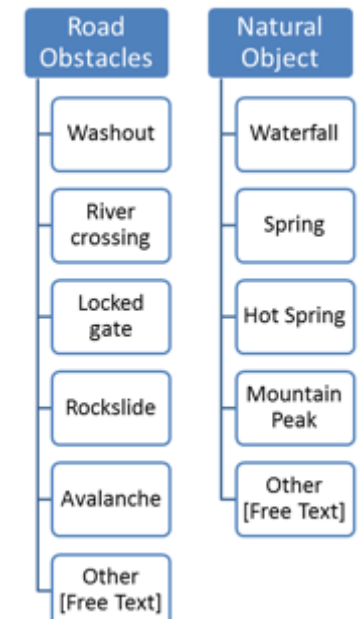
I.7 TN

I.9 PS

UC-EP08-01 Discover and viewing, INSPIRE compliant services for Nature Consevation purpose



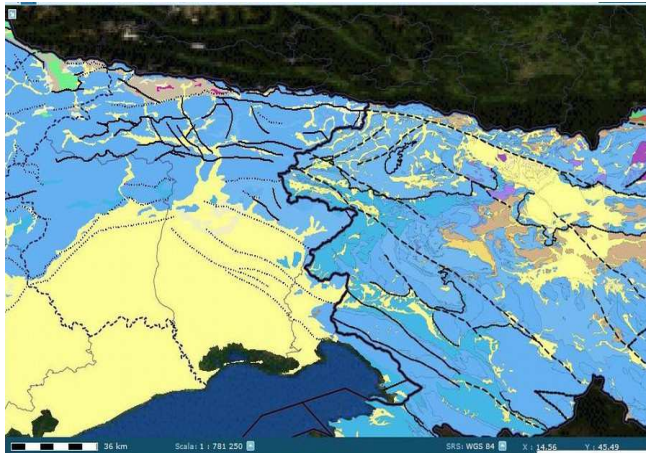
UC-EP08-02: Crowdsourcing on environmental objects in Iceland



eENVplus Sintesi casi d'uso - Pilota 9

EP09 - Cross-border Pilot in Italy / Slovenia
Scenario: Geological Map Harmonization

- UC-EP09-01: Environmental risk (geo-hazard): landslide susceptibility map
- UC-EP09-02: Environmental risk (geohazard): analysis of flooding phenomena



INSPIRE DATA THEME

I.7 TN

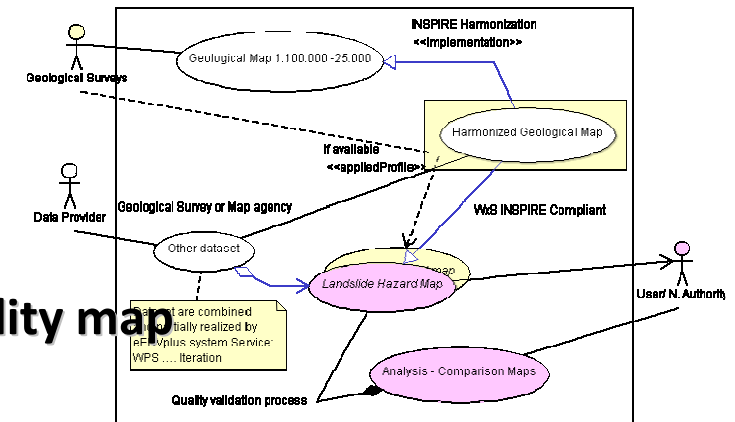
I.8 HY

II.1 EL

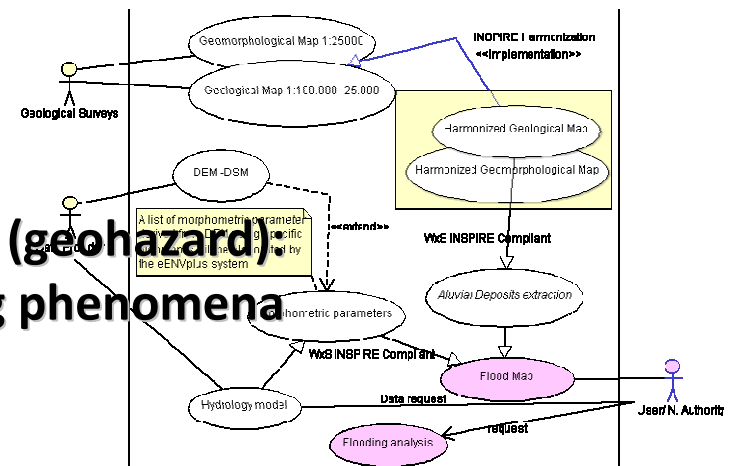
II.4 GE

III.12 NZ

UC-EP09-01 Environmental risk (geo-hazard): landslide susceptibility map



UC-EP09-02 Environmental risk (geohazard): analysis of flooding phenomena



eENVplus Sintesi casi d'uso - Pilota 10

EP10 - Pilot in Portugal Scenario: Urban Landuse Planning

- UC-EP10-01: Delineation of study areas
- UC-EP10-02: Evaluate urban and rural growth
- UC-EP10-03: Evaluate and document data accuracy
- UC-EP10-04: Evaluate spatial planning impact on urban growth
- UC-EP10-05: Evaluate the impact of urban growth on air and water quality
- UC-EP10-06: Integrate statistical data (time series)



INSPIRE DATA THEME

I.4 AU

II.3 OI

III.1 SU

III.4 LU

UC-EP10-01

Access to data and definition of study areas

UC-EP10-02

Evaluate urban and rural growth

UC-EP10-03

Evaluate and document data accuracy

UC-EP10-04

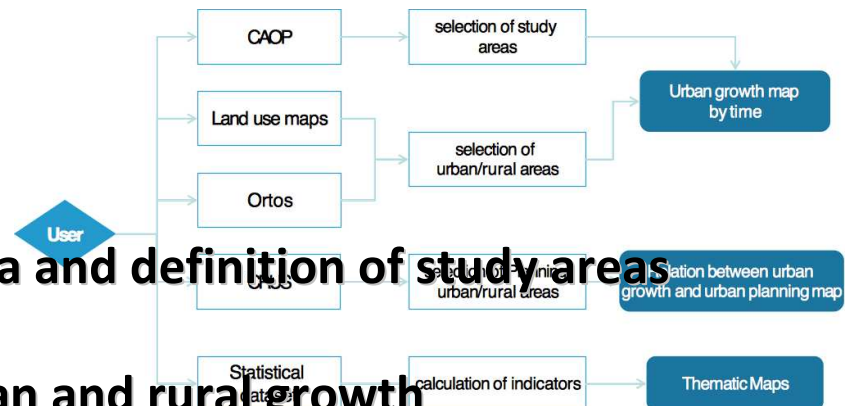
Evaluate spatial planning impact on urban growth

UC-EP10-05

Evaluate the impact of urban growth

UC-EP10-05

Integrate statistical data



Grazie dell'attenzione!

? Domande

WP7 Leader

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