

eENVplus - eEnvironmental services for advanced applications within INSPIRE

CIP – Pilot Actions

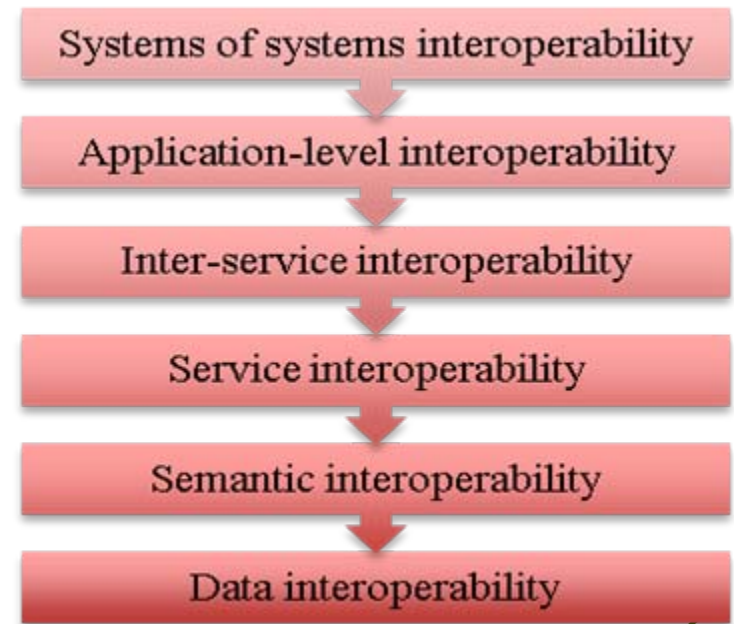
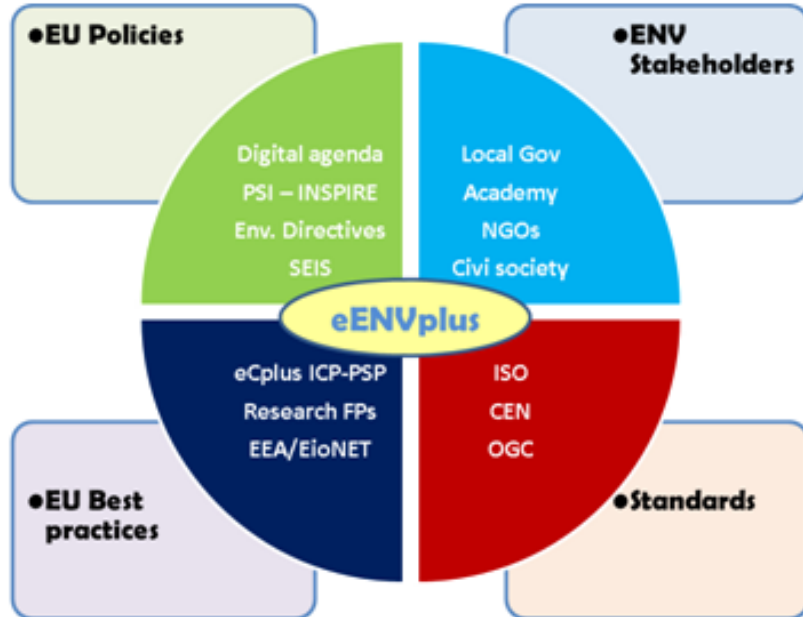
Grant agreement no: 325232

Starting date: 01 January 2013

Giorgio Saio
GISIG

Key objective

- to support INSPIRE and SEIS implementation
- through deployment and integration of value-added eEnvironment services
- available at national level and through past/on-going key EC-funded project
- eENVplus provides Members State and the GI Communities, with tools addressing a **multi-level interoperability stack**:



Initiatives

Policy

Environmental Directives

Digital Agenda
10011001011011011000100 2010-2020
for Europe



EIS

PSI



From Objectives to the

eENVplus



Air

Water

Nature Conservation

ENV Risks

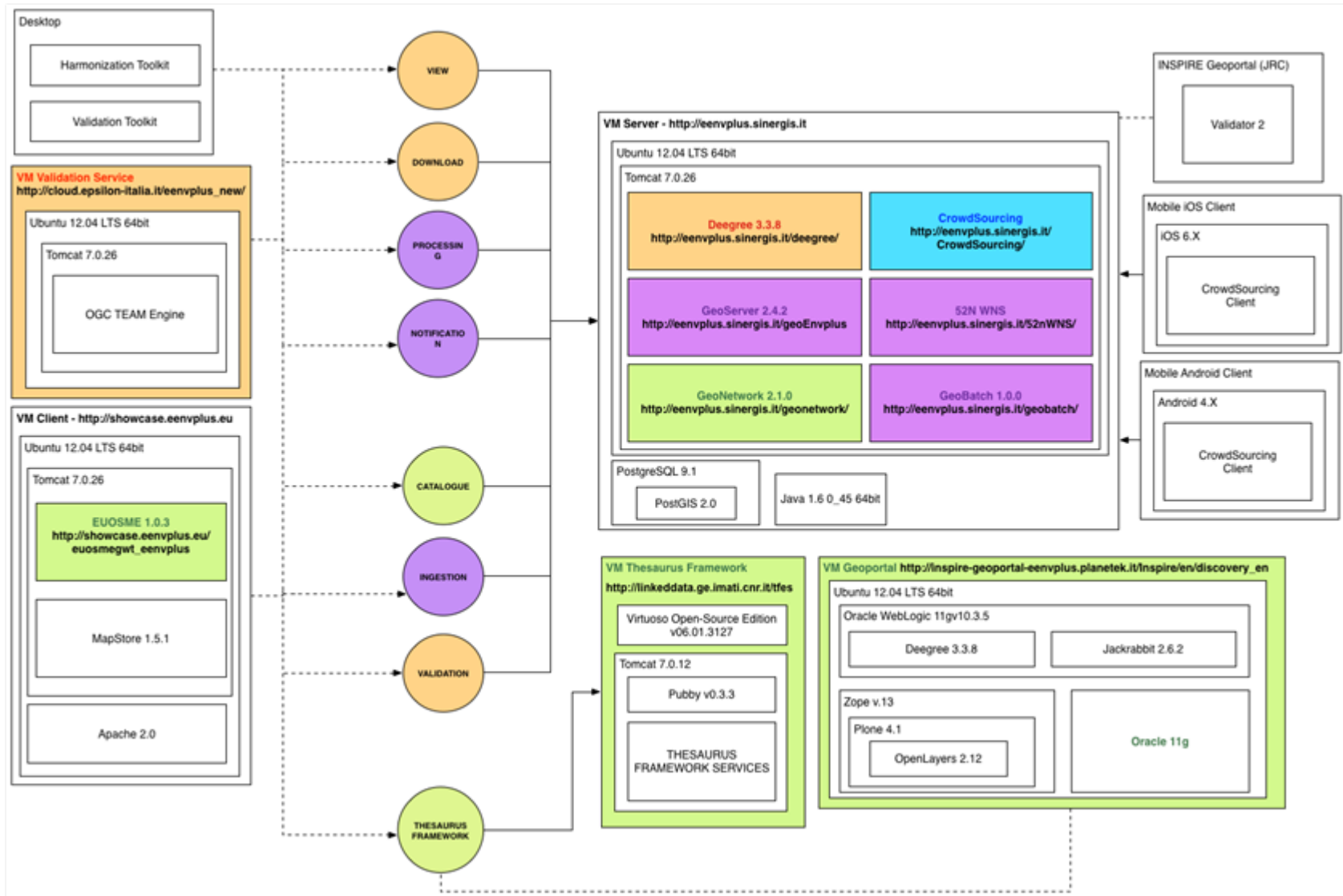
Land Use Planning

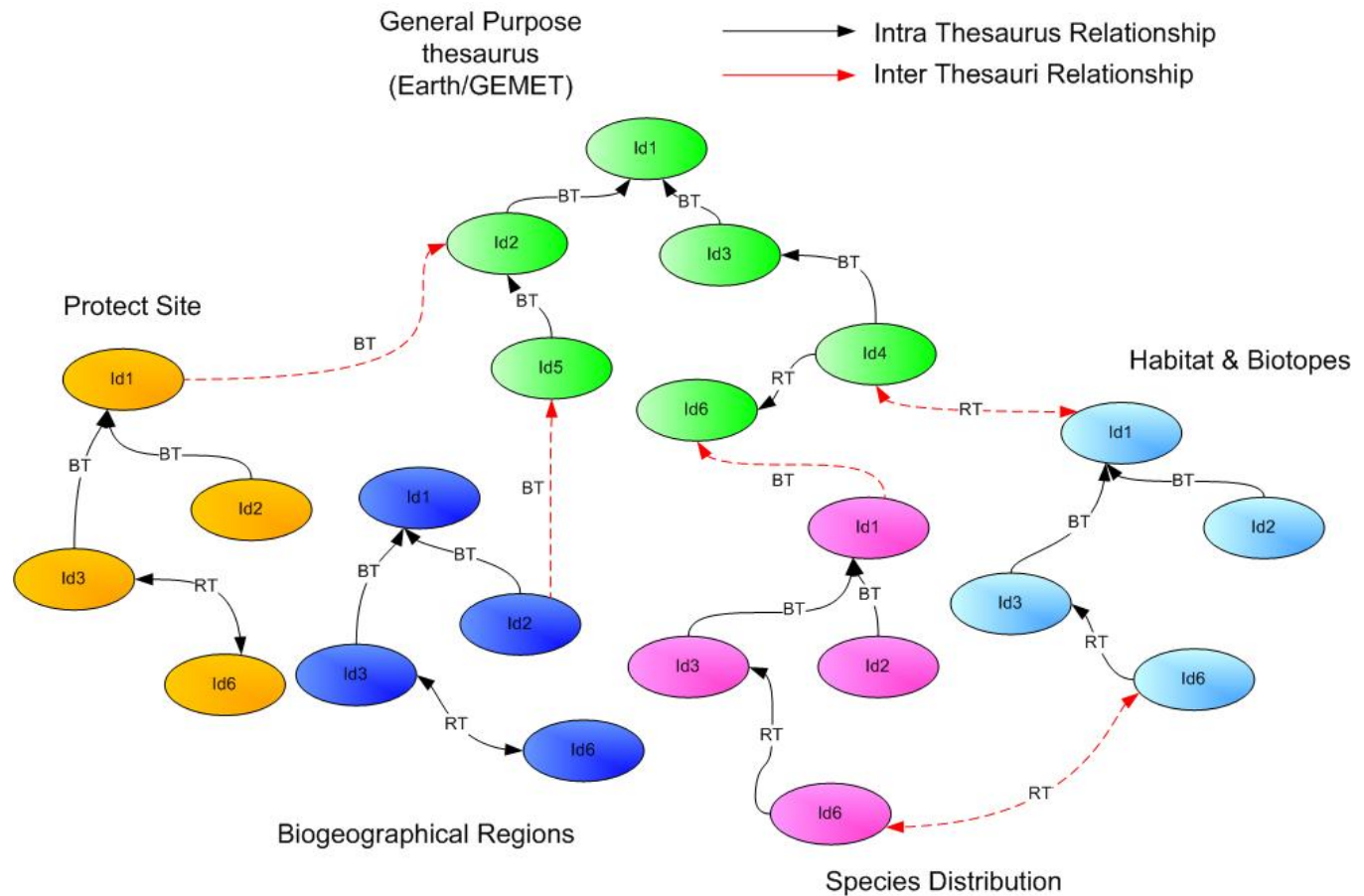
Everyday Life



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





- integration of different available thesauri
- cross walking from a thesaurus to another

- eENVplus infrastructure is composed by a set of components combined into the nodes of the infrastructure

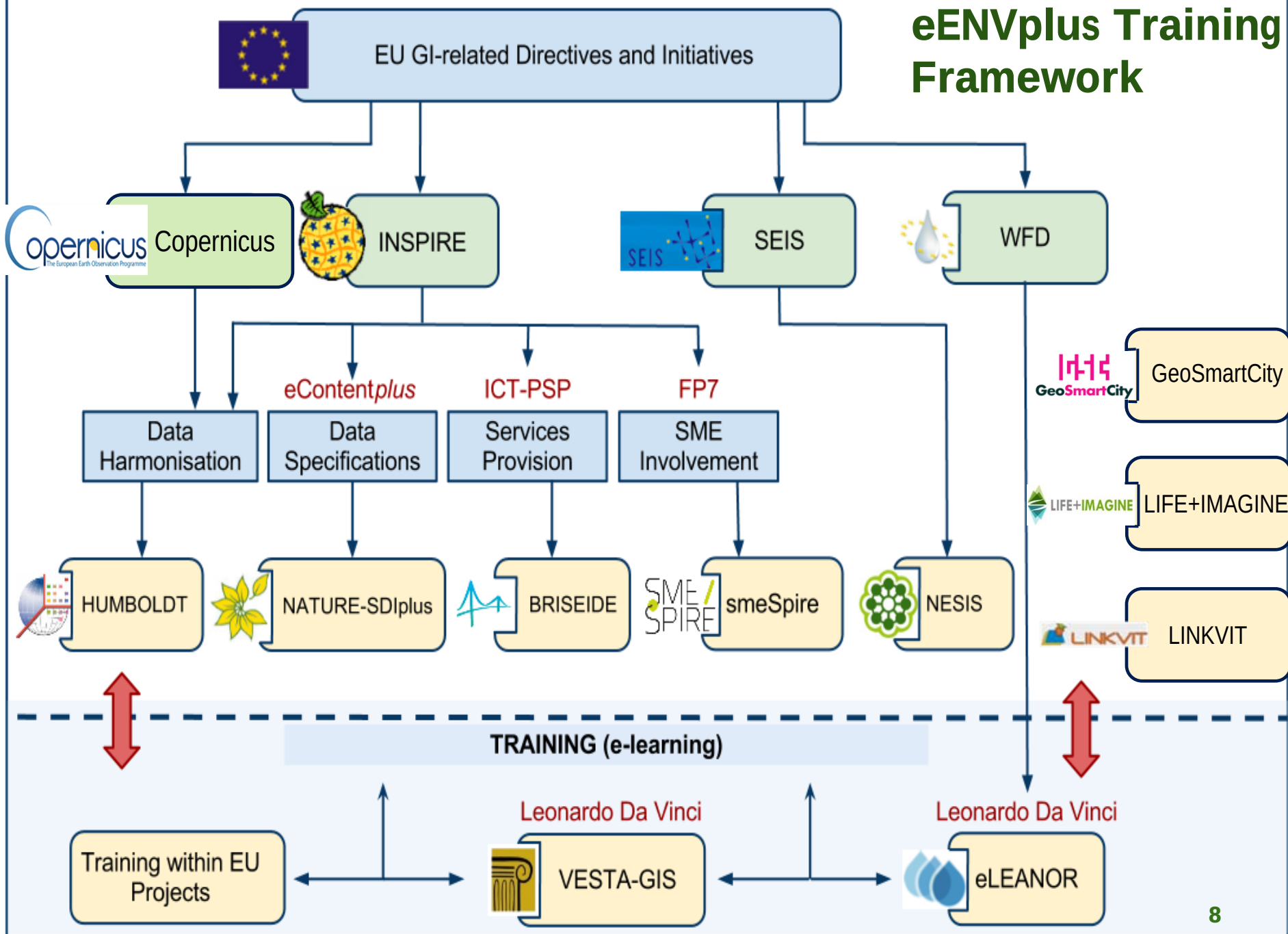
Software components



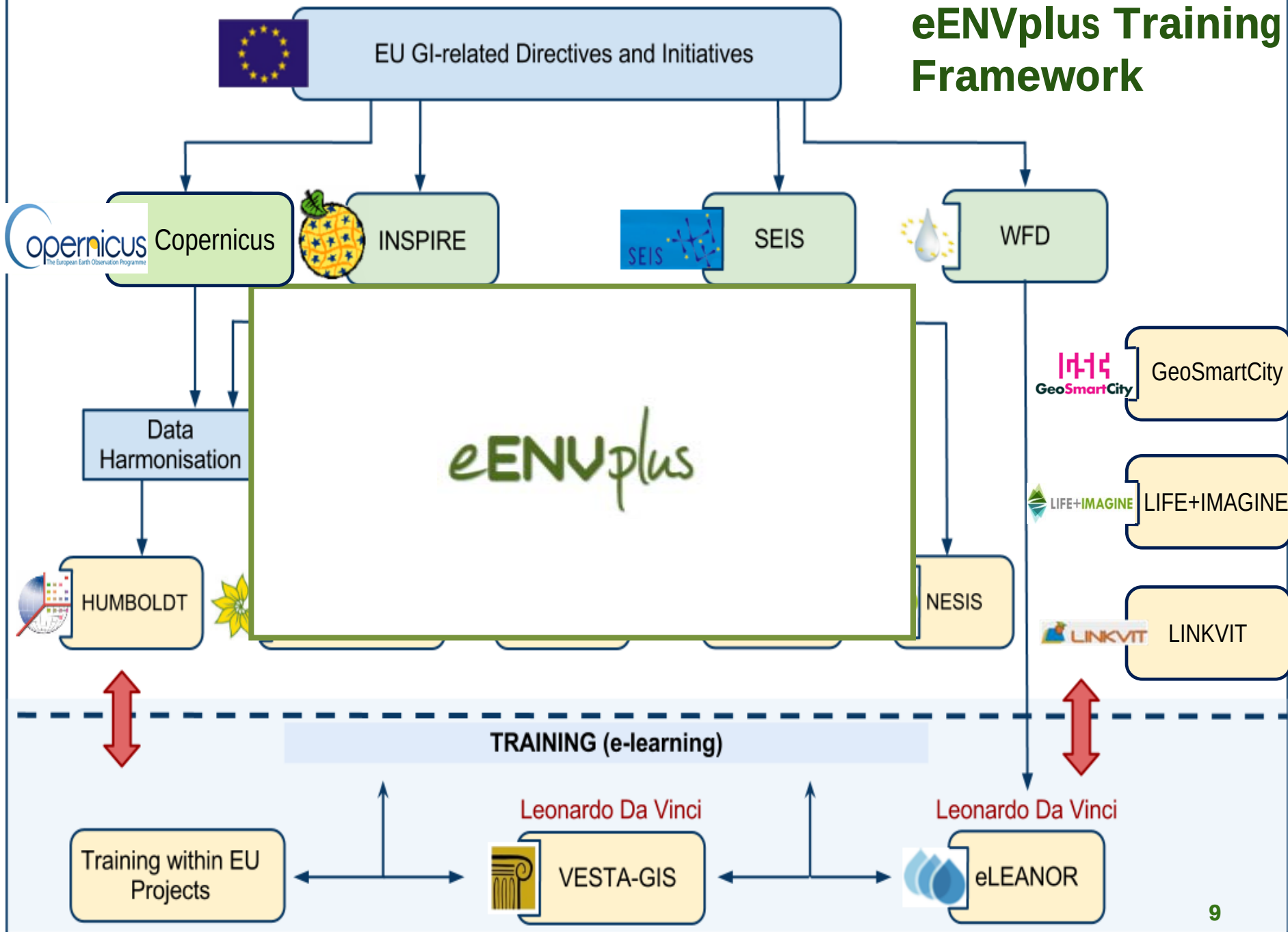
Data structure components



eENVplus Training Framework



eENVplus Training Framework



Underlying content, INSPIRE data Themes

- Various National datasets related to many INSPIRE Annex I-II-III Data Themes, are considered for eENVplus (some are under IPR, many are Open Data)
- After the 1st data analysis, not all of them will be harmonised

Pilot Applications: EP01 EP02 EP03 EP04 EP05 EP06 EP07 EP08 EP09 EP10										
ANNEX I										
1. RS: Coordinate reference systems										
4. AU: Administrative units										
6. CP: Cadastral parcels										
8. HY: Hydrography										
9. PS: Protected sites										
ANNEX II										
2. LC: Land cover										
3. Ol: Orthoimagery										
4. GE: Geology										
ANNEX III										
1. SU: Statistical units										
4. LU: Land use										
5. HH: Human health and safety										
6. US: Utility and governmental services										
7. EF: Environmental monitoring facilities										
8. PF: Production and industrial facilities										
11. AM: Area mng/rest/reg zones & rep. units										
12. NZ: Natural risk zones										
13. AC: Atmospheric conditions										
14. MF: Meteorological geographical features										
17. BR: Bio-geographical regions										
18. HB: Habitats and biotopes										
19. SD: Species distribution										



■ National Agencies:

- Environmental Agencies: VMM (BE), ISPRA (IT), CENIA (CZ), SAZP (SK), MRD (HU) with support of GEO (HU); moreover, EPSILON in close cooperation with GR EA
- Mapping Agencies: DGT (PT), NLSI (IC)
- Thematic Agencies: Geological (**GeoZS, SLO**), Nature (ATEN, FR)

■ **Technical partners:** CNR-IMATI, Epsilon, Sinergis, Graphitech, disy, EPSIT, PKH

■ **University:** GEO

■ **Standardization Body:** GIST (Secretary of CEN TC/287 Geographical Information)

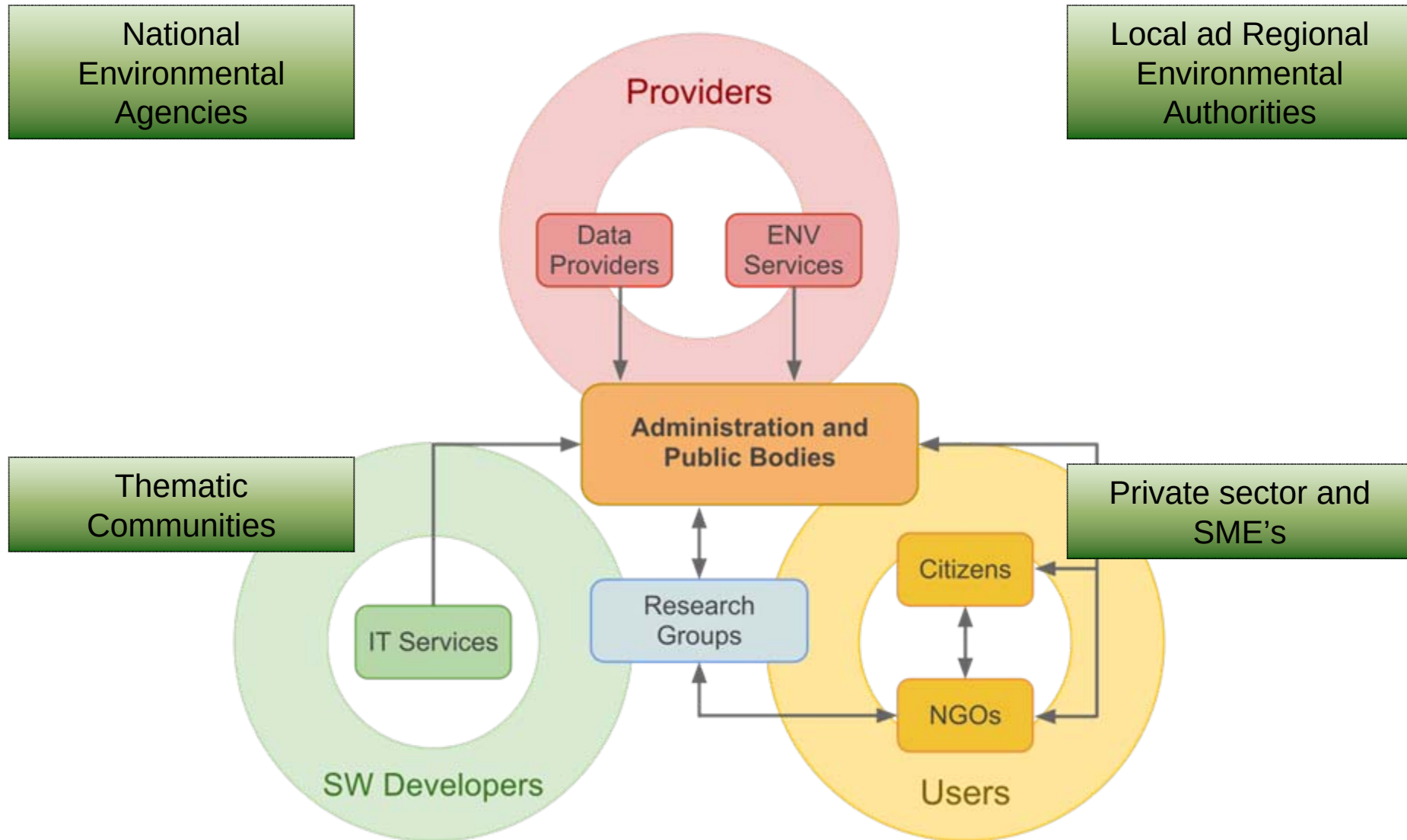
■ **European Association:** GISIG (eENVplus Coordinator)

Pilots / Scenarios / Use Cases

- In 10 pilots, 3 cross-border
- Pilots (10): the actual implementation of the scenarios in a geographical area
- Scenarios (9): the different use cases considered by eENVplus, which the applications correspond to
- Use Case (26): a methodology used in system analysis to identify, clarify, and organize system and user requirements
- Offering examples on how the eENVplus outcomes can be utilized in a variety of different situations (ENV aspects) and users' needs
- Providing streamline of the tools available to the project into the main flow of INSPIRE compliance
- Proposing interoperability among applications (existing or planned)

- 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 **Slovakia and Hungary**, cross-border pilot
- INSPIRE Geoportal - Nature conservation data in **Iceland**, pilot in **Iceland**
- Geological Map Harmonization in **Italy and Slovenia**, cross-border pilot
- Urban Landuse Planning: in **Portugal**

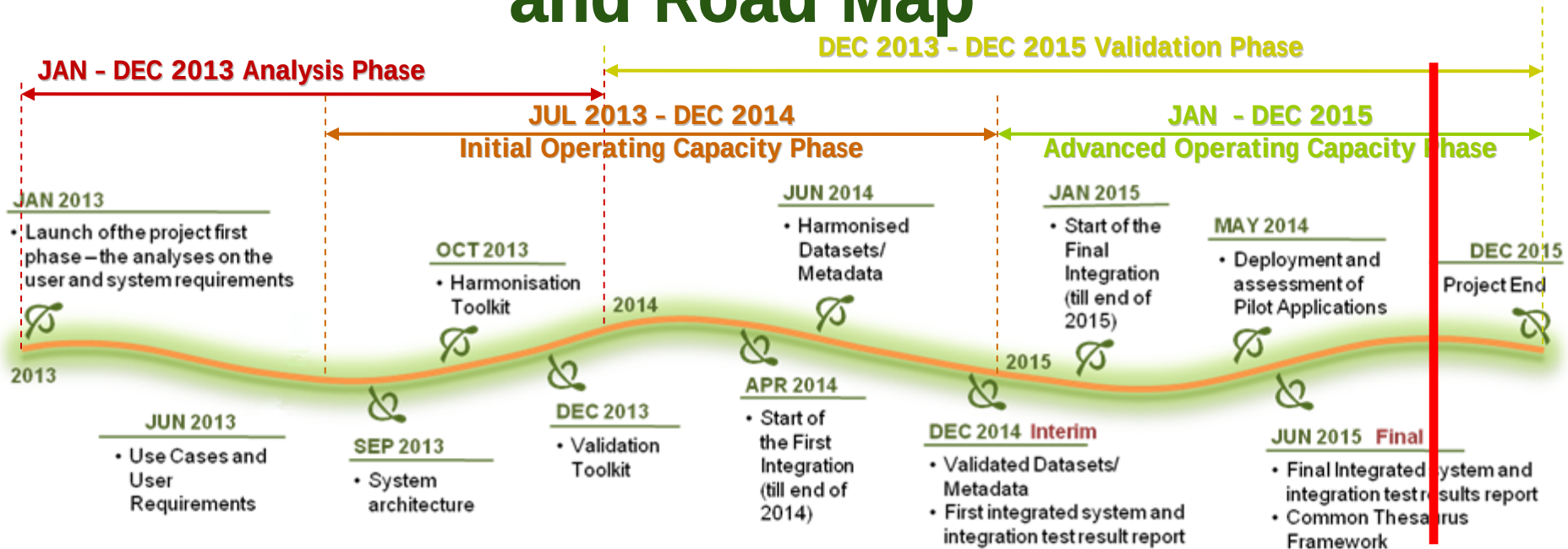
Target Groups

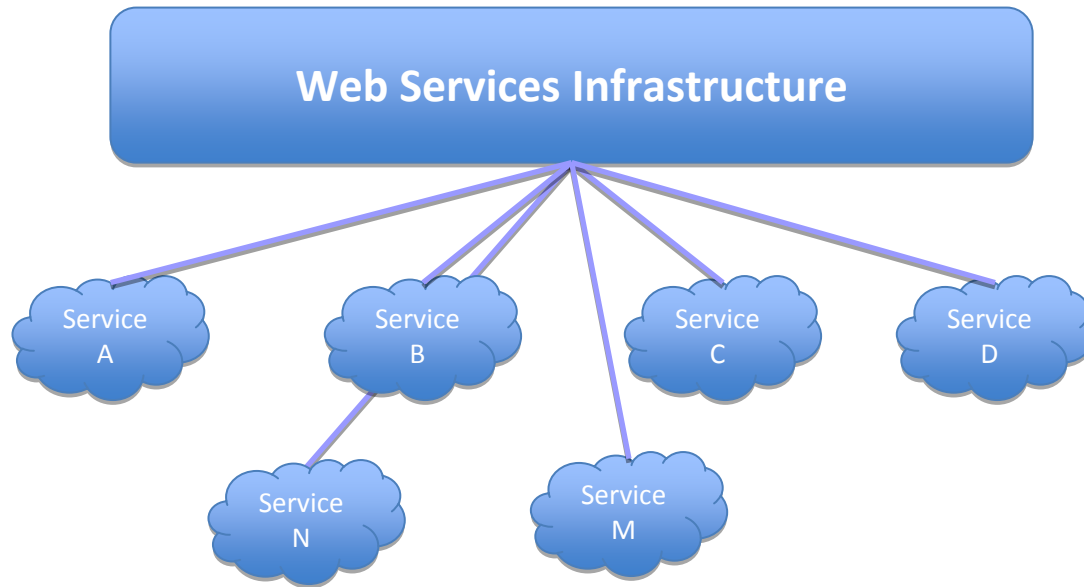


Macro-actions foreseen by eENVplus



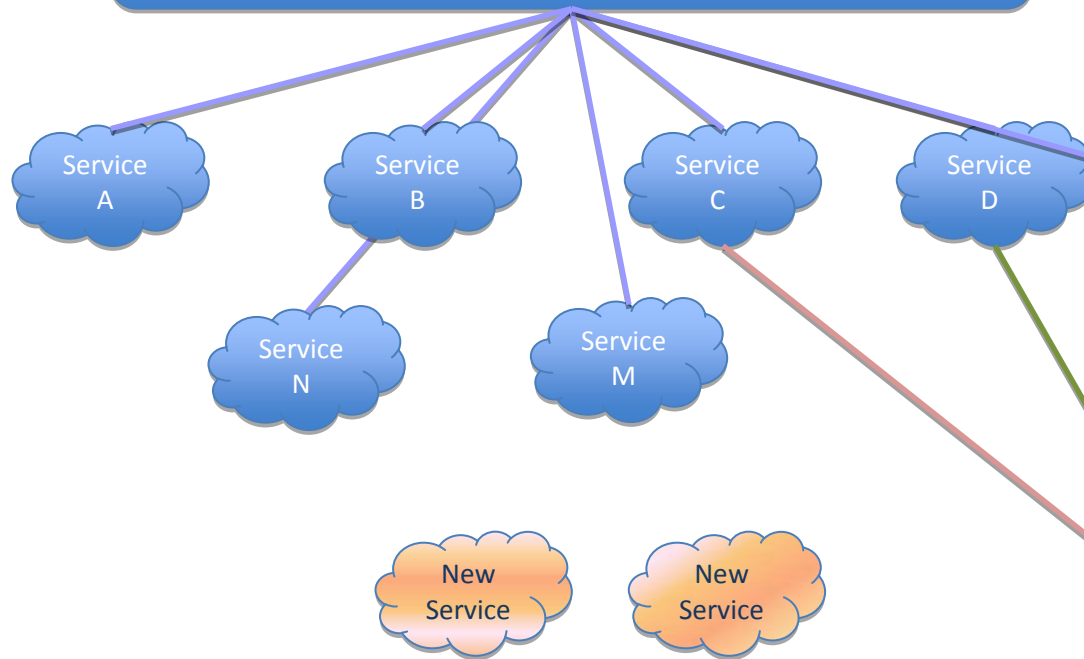
and Road Map





- 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 the Framework for implementing/use/sharing eEnvironmental services
- That will be part of the long term sustainability plan after the project conclusion

Web Services Infrastructure



Pilot Applications

eENVplus



9:15-10:45	INSPIRE/eENVplus National workshop (in English) -INSPIRE in Slovenia (Tomaž Petek) -eENVplus presentation (Giorgio Saio, GISIG) -The eENVplus Infrastructure (Graphitech) -The eENVplus showcase (GISIG)
10:45-11:00 Coffee break	
11:00-12:45	-eENVplus pilots and scenarios (C. Cipolloni, ISPRA, Matevž Novak, GeoZS) -The INSPIRE data model for the IT-SLO pilot (ISPRA) Stakeholder training session (in English) -The eENVplus Training Framework and eLearning tools (G.Saio) -on-line Training action organisation
12:45-13:45 Lunch	

Thanks for your interest in eENVplus !

Giorio Saio

g.saio@gisig.it

GISIG - eENVplus Coordinator