



# HLanData

HARMONIZATION OF EUROPEAN  
LAND USE AND LAND COVER DATABASES  
FOR THE CREATION OF VALUE ADDED SERVICES

## Creation of value-added services based on Harmonized Land Use and Land Cover Datasets

CIP-ICT PSP-2009-3- GEO-250475

**Isabel Goñi**  
INSPIRE 2010



- INSPIRE states that before the 15th of May of 2012, the rules for the implementation of the datasets included in INSPIRE's Annexes II and III must be approved.
  - ✓ Land cover is one of the themes included in the Annex II
  - ✓ Land use is one of the themes included in the Annex III
- All European Member States will have to make available their geographic information as established in INSPIRE.

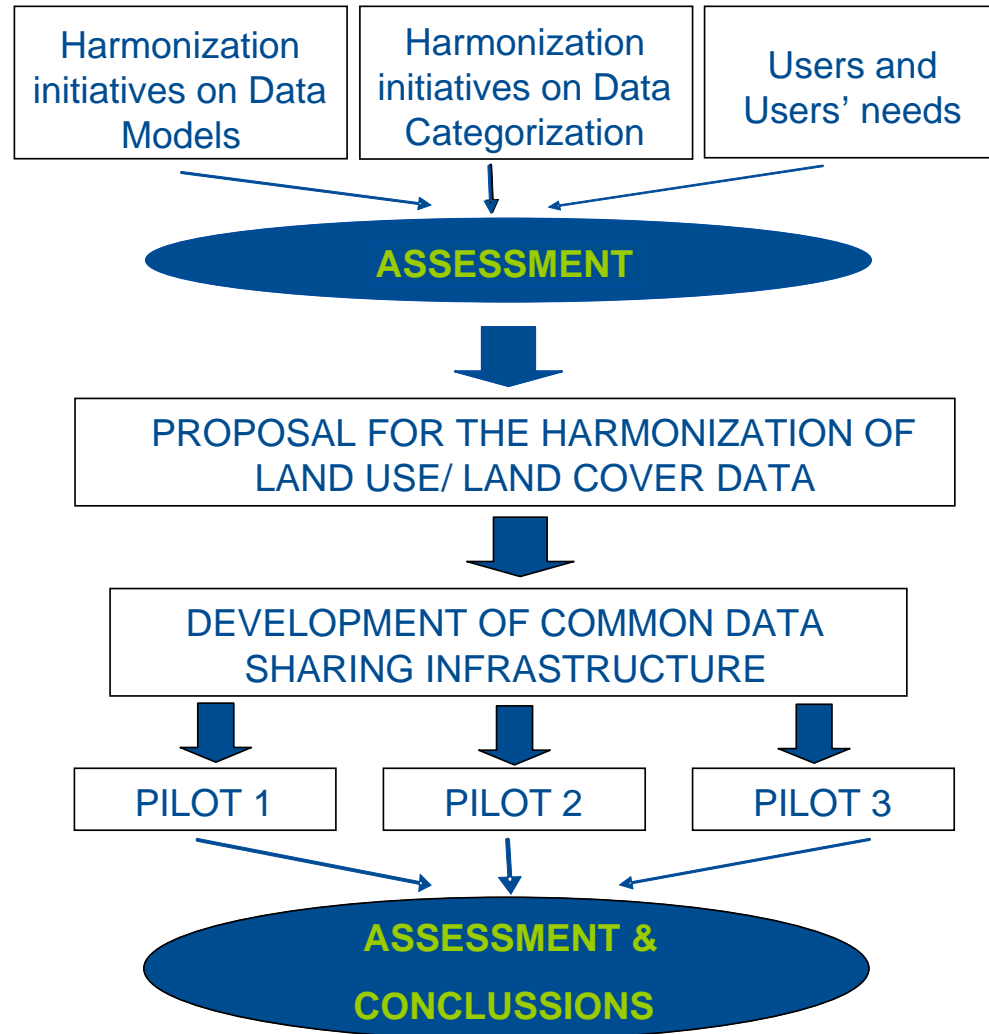
- Currently there is no harmonized data model allowing access to land use and land cover data owned by the different Member States
- Thus the transnational applications which need to access and use data coming from different member states cannot be easily implemented

To demonstrate the feasibility of harmonizing existing European Land Use and Land Cover Geographic Information considering:

- Data categorization
- Data models
- End users requirements.

- ✓ **Harmonization of the LC/LU datasets**
  - ✓ Previous harmonization initiatives and related results:
    - ▶ Data Models
    - ▶ Data Categorizations
  - ✓ Make a proposal
  - ✓ Develop common data sharing infrastructure, based on web services
- ✓ **Implement 3 pilot projects**
  - ✓ Value added service: users' real needs
  - ✓ Certain type of users: from the point of view of the applications
  - ✓ Assessment and disseminate results
- ✓ **Experts' network**
  - ✓ Producers
  - ✓ Users

# General approach



**COMMON DATA SHARING INFRASTRUCTURE:**  
Common Web services allowing to visualize, overlay  
information from different sources



Participant no.*	Participant organisation name	Country	Role
1 (C)	Gobierno de Navarra – Departamento de Desarrollo Rural y Medio Ambiente	Spain	Content provider End user for Pilot 1
2 (P)	Trabajos Catastrales S.A.	Spain	Technology provider
3 (P)	Instituto Geográfico Nacional – Centro Nacional de Información Geográfica	Spain	Content provider End user for Pilot 1
4 (P)	UAB Aerogeodezijos Institutas - AGI	Lithuania	Content provider End user for Pilot 2
5 (P)	GISAT	Czech Republic	Content provider End user for Pilot 2
6 (P)	Technology Development Forum	Latvia	Content Provider End user Pilot 1
7 (P)	Slovak Environmental Agency	Slovakia	Content provider for Pilot 3 End user for Pilot 3
8 (P)	CEIT ALANOVA	Austria	Technology provider End user for Pilots 1, 2 and 3.
9 (P)	ISOCARP	The Netherlands	Dissemination of project results, end user and validates Pilot 2



Target: all users

*Partners: GN, TRACASA, IGN/CNIG, GISAT, AGI,  
TDF, SEA, CEIT*

*Value added services*

- ✓ ***Visualization** of the information layers from different sources.*
- ✓ ***Overlay** and integration of information from several sources.*

Target: intermediate-level users

*Partners: GN, TRACASA, IGN/CNIG, TDF, CEIT*

*Value added services*

- ✓ *Advanced viewing*
- ✓ *Overlaying different layers*
- ✓ *Spatial and temporal analysis*
- ✓ *Downloads*
- ✓ *Data maintenance (for producers)*
- ✓ *E-learning tool*

## Sub-Pilot 2.1: Harmonized interoperable national land information system

Target: Policy makers

*Partners: GISAT, CEIT*

*Value added services*

- ✓ *Stock and flows land account*
- ✓ *Socio-economic data integration*
- ✓ *Statistical analysis*

## Sub-Pilot 2.2: National land statistical accounting system

Target: Policy makers

*Partner: AGI, CEIT*

*Data provided from: Lithuania*

*Value added services*

- ✓ *GMES Core Mapping Services*

Target: General and specialized users

*Partners: SEA, CEIT*

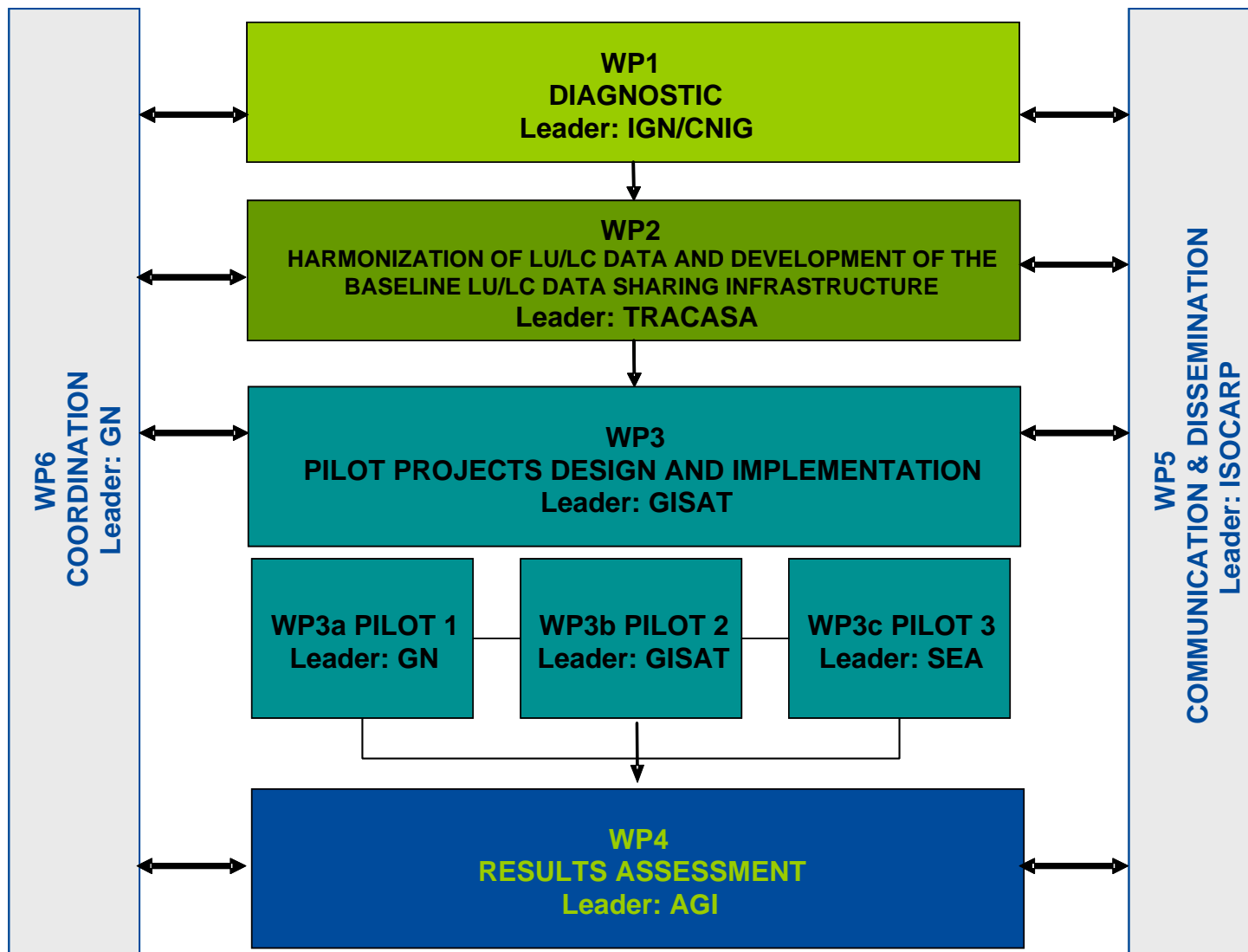
*Data provided from: Slovakia*

## *Value added services*

- ✓ *Viewing and Overlaying different layers*
- ✓ *Spatial and temporal analysis*
- ✓ *Data maintenance in different levels*

- ✓ Land Use-Land Cover harmonization proposal
- ✓ Common Data sharing infrastructure
  - ✓ Standard services
- ✓ Added Value Services
  - ✓ Pilot 1 services
  - ✓ Pilot 2 services
  - ✓ Pilot 3 services

# Work Plan



# Gantt Diagram

WORK PACKAGE	YEAR 1												YEAR 2												YEAR 3																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36							
WP1. DIAGNOSTIC	█	█	█	█	█																																						
WP2. HARMONIZATION OF LU/LC DATA AND DEVELOPMENT OF THE BASELINE LU/LC DATA SHARING INFRASTRUCTURE'						█	█	█	█	█	█	█	█	█	█																												
WP3. PILOT PROJECTS DESIGN AND IMPLEMENTATION																																											
WP5. COMMUNICATION AND DISSEMINATION	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█			
WP6. PROJECT MANAGEMENT AND COORDINATION	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█



## Contact Information

✓ **Coordinator:**

Gobierno de Navarra

**Delia Sola**

[dsolajim@cfnavarra.es](mailto:dsolajim@cfnavarra.es)

✓ **Technical coordinator:**

TRACASA

**Isabel Goñi**

[igoni@tracasa.es](mailto:igoni@tracasa.es)

✓ **Supporting coordinator:**

TRACASA

**María cabello**

[mcabello@tracasa.es](mailto:mcabello@tracasa.es)

✓ **Project Website:**

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

*THANKS FOR YOUR ATTENTION!*