



HLanData

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



INSPIRE conference 2011 EDINBURGH • 27 June - 1 July

Workshop:

**Land Cover/Land Use Data model commonalties.
HLANDATA project user's perspective**

**HLANDATA harmonization:
Land Cover/ Land Use integration
practical applications**

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- ✓ Hlandata introduction
- ✓ INSPIRE: creating synergies
- ✓ Harmonization Methodology - Testing
- ✓ Conclusions



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Hlandata introduction

To demonstrate the feasibility of harmonizing existing European Land Use and Land Cover Geographic Information considering data categorization and data models and also end users requirements through the development of user oriented value-added services



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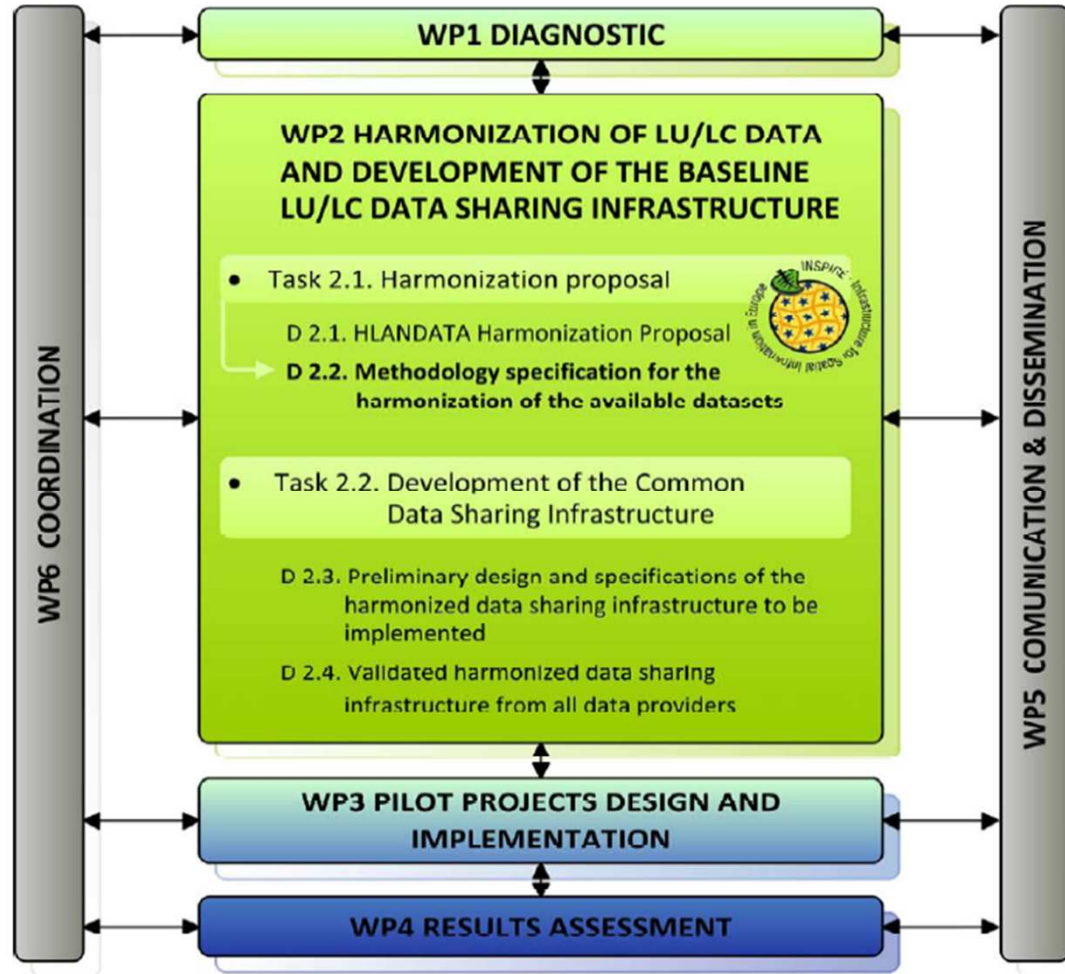
Hlandata introduction

- ✓ Use of the Land Use and Land Cover geographic data at a European level
- ✓ Creation of value-added European services.
- ✓ Very practical approach
- ✓ Taking into account:
 - ✓ Both data model and data categorization
 - ✓ Together with the different users' and applications' needs when using these datasets



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

Hlandata introduction





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Hlandata introduction

- ✓ To **assess the relevant information** related to the harmonization of the Land Use and Land Cover Datasets:
- ✓ To **make a proposal for the harmonization** of the Land Use and Land Cover datasets
- ✓ To develop and optimize of **common data sharing infrastructure** (based on web services) needed for the management of the harmonized Land Use and Land Cover datasets
- ✓ To **implement 3 pilot** projects providing some value added service to a certain type of end users.
- ✓ To make the assessment and **disseminate** the obtained **pilot results** within their respective fields of action.
- ✓ To **promote the creation of an experts' network** composed of producers and users of this information.



TWG-DS & TESTING
LC LU LC LU



P1 GN

P2 TRACASA

P3 IGN

P4 AGI

P5 GISAT

P6 TDF

P7 SEA

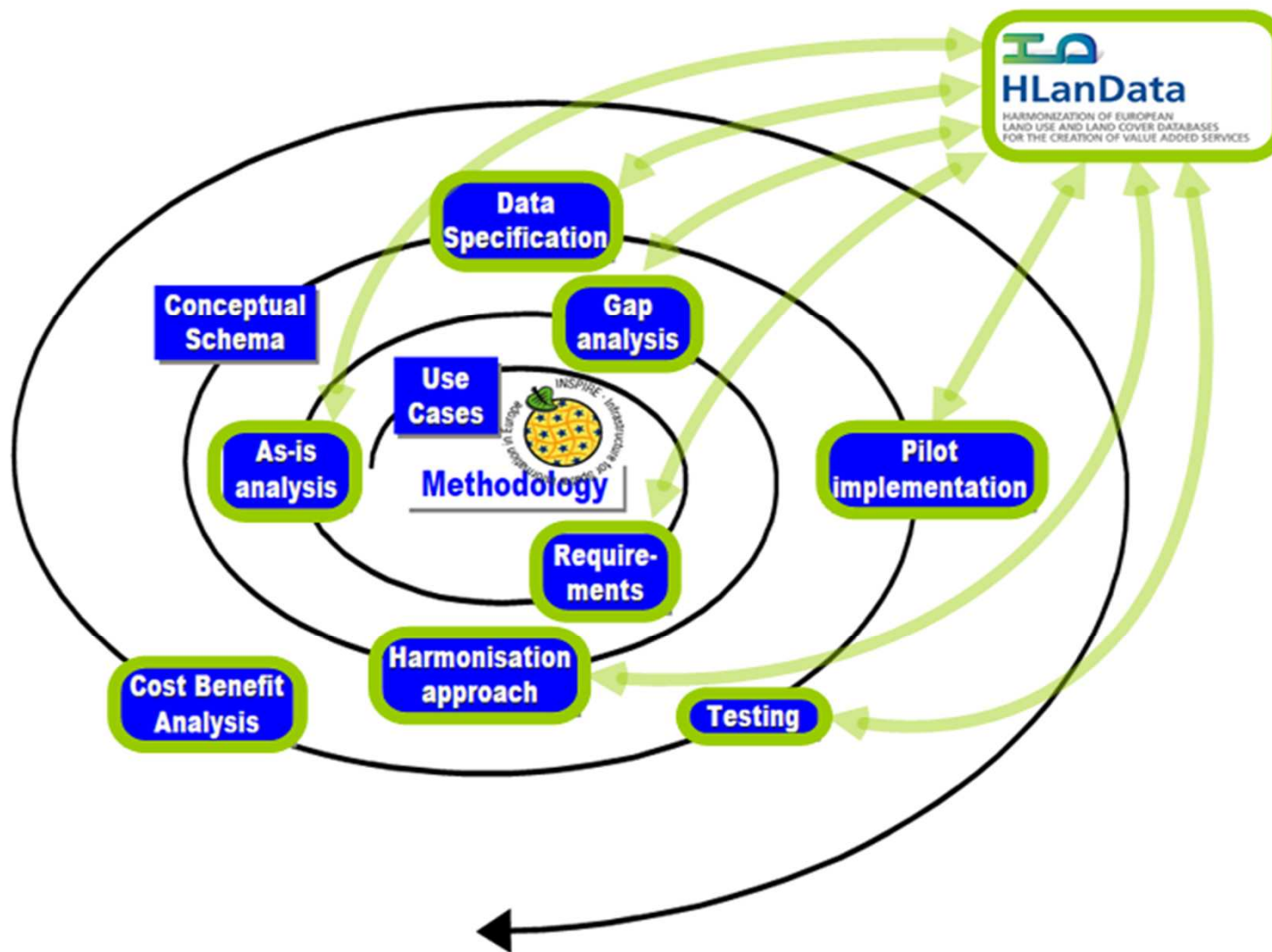
P8 CEIT ALANOVA

P9 ISOCARP



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INSPIRE: creating synergies

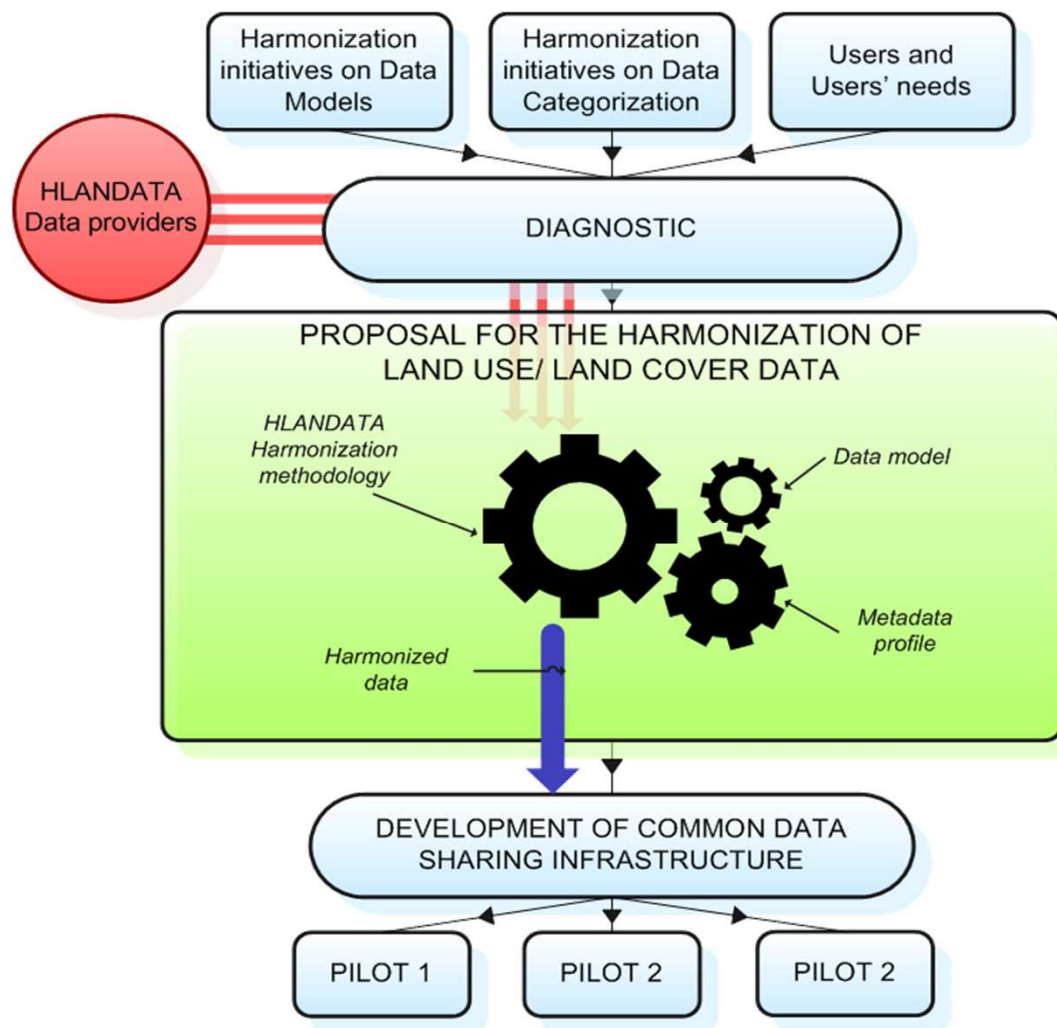


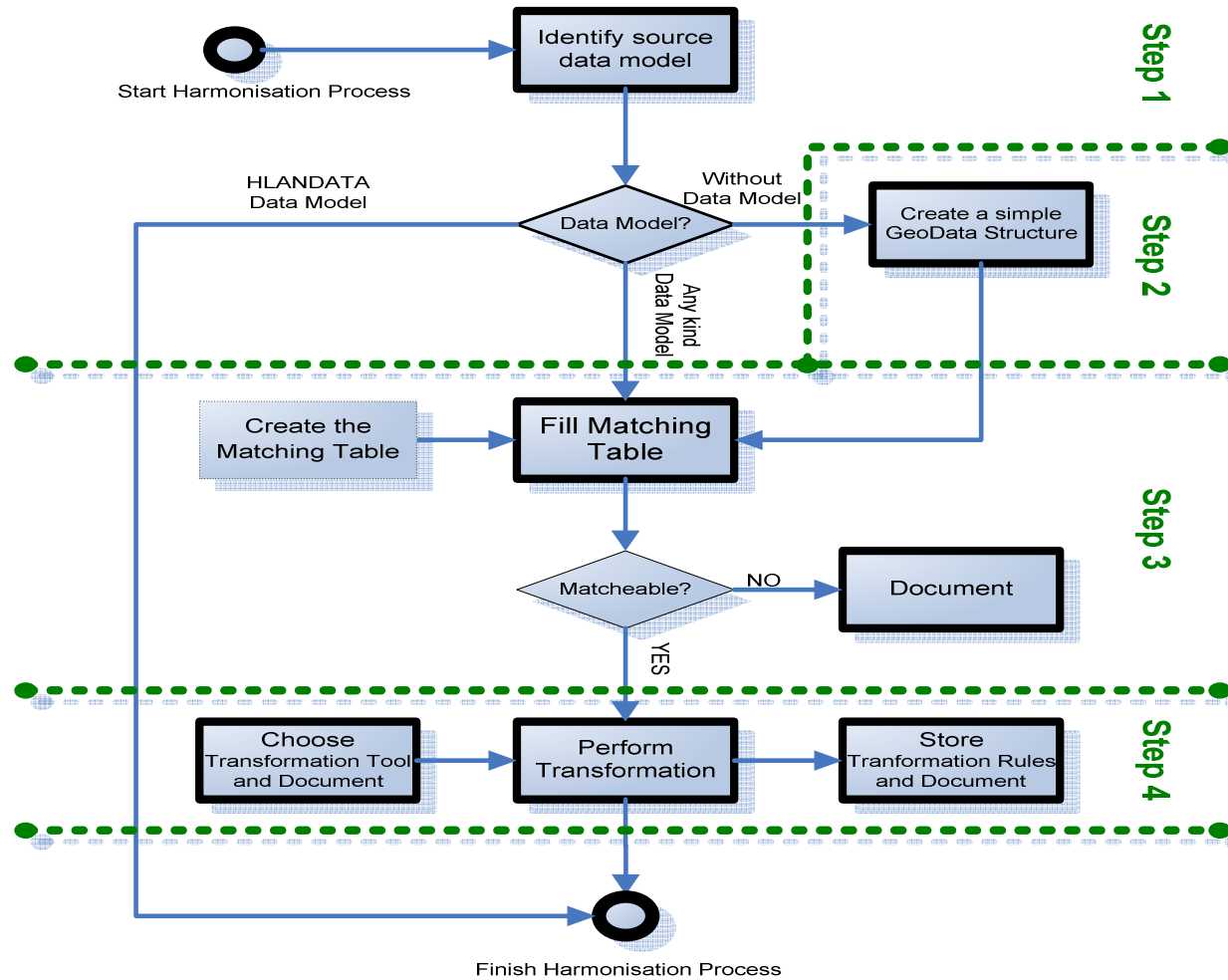


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INSPIRE: creating synergies

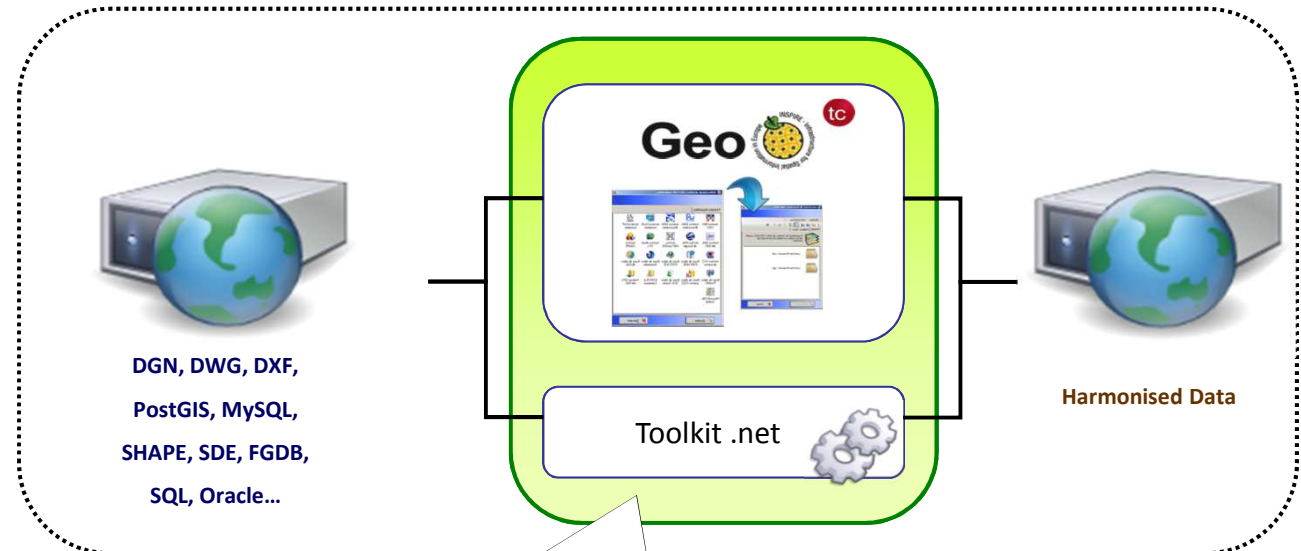
- ✓ DS LU v 2.0
 - ▶ Suggested profile model approach
 - ✓ Integrated **Core** model, **Existing** model & **Planned** model
 - ▶ Participation on the development of the nomenclature
 - ✓ Adopt a common and feasible LU nomenclature designed for INSPIRE. And permit in appropriate way rest of well-defined and contrasted nomenclatures as optional (LUCAS, SEEA, nationals...)
- ✓ DS LC v 2.0
- ✓ Enhance LU-LC relationship
- ✓ Complete - reuse elements of data quality, metadata, portrayal: PLAN4ALL





■ Harmonisation

- Desktop application
- Multilingual (Spanish, English...)
- Version PRO
- Updated via WEB



1. Transform formats
2. Update attributes
3. Change CRS
4. **Identify XSD schemes**
5. **Export GML 3.2.1**





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Conclusions

- ✓ Hlandata-INSPIRE cooperation brings detailed user's perspective and wider perspective LC-LU
- ✓ Hlandata will use and test DS LC and LU v2.0
- ✓ Reuse of knowledge and creations of stronger synergies

Thanks for you attention!!