

# Report on Working Group 1: ESDAC and INSPIRE „WG1”

what happened since Paris...

by  
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on behalf of the WG members

# WG participants

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*Mandate by ESNB SC – September 2008*

The INSPIRE Directive became in force and it is decided to establish ESDAC. ESDAC will not contain all the data itself. In the case users need data from ESDAC the system will online contact the national soil databases and draw information from there.

It is needed to set up a data specification for the data to be included in the ESDAC. This specification should be in line with the present data available in the European Soil Information System and the data present at national level.

The mandate of the group is the development of this data specification and support to JRC activities for ESDAC (soil action working plan for 2009).

# Introduction to the INSPIRE Directive and data specification procedures

# INSPIRE Directive

- INSPIRE lays down general rules to establish an infrastructure for spatial information in Europe
  - for the purposes of Community environmental policies and
  - policies or activities which may have an impact on the environment.
- INSPIRE to be based on the infrastructures for spatial information established and operated by the Member States
  - INSPIRE is a distributed infrastructure.
- INSPIRE does not require collection of new spatial data
- INSPIRE does not affect existing Intellectual Property Rights
- Entry into force 15 May 2007



# INSPIRE Spatial Data Scope

## Annex I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

## Annex II

1. Elevation
2. Land cover
3. Ortho-imagery
4. Geology

*Harmonised spatial data specifications more stringent for Annex I and II than for Annex III*

# INSPIRE Thematic Scope

## Annex III

1. Statistical units
2. Buildings
3. Soil
4. Land use
5. Human health and safety
6. Utility and governmental services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution – demography
11. Area management/restriction /regulation zones & reporting units
12. Natural risk zones
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
20. Energy Resources
21. Mineral resources

# INSPIRE Components

- Metadata
- Interoperability of spatial data sets and services
- Network services (discovery, view, download, invoke)
  - Made available through the European geo-portal
- Data and Service sharing (policy)
- Coordination and measures for Monitoring & Reporting

## *INSPIRE is a Framework Directive*

*Detailed technical provisions for the issues above will be laid down in Implementing Rules*

*Once adopted, Implementing Rules become European legislative acts and national law in 27 Member States and in some EFTA countries*





# Interoperability and harmonisation of spatial data sets and services

- The development of INSPIRE Implementing rules for the interoperability and, where practicable, harmonisation of spatial data sets and services follow a two-step approach:
  - Development of conceptual framework and specification methodology.
    - DS-D 2.3 Definition of Annex Themes and Scope
    - DS-D 2.5 *Generic Conceptual Model (GCM)*,
    - DS-D 2.6 *Methodology for Specification Development*.
    - DS-D 2.7 Guidelines for Encoding
  - Development of data specifications for each data theme based on the
    - conceptual framework
    - common specification development methodology,
    - and on the INSPIRE roadmap

# Data Specification development roadmap

<b>Description</b>	<b>Who</b>	<b>Start</b>	<b>End</b>
Task 1: User requirements and use cases	TWG	2008-03	2008-05
Task 2: Analysis of the relevant reference materials	TWG	2008-02	2008-05
Task 3: “As-is” analysis according to the methodology in D2.6	TWG	2008-02	2008-08
Task 4: Gap analysis according to the methodology in D2.6	TWG	2008-02	2008-08
Task 5: Drafting data specification of Annex I data themes	TWG	2008-05	2009-03
Task 6: Testing of draft data specifications for themes	SDICs, LMOs	2008-10	2009-02
Task 7: Preparation and adoption of IR for the interoperability and harmonisation of spatial data sets and services for Annex I spatial data themes	CT, TWG INSPIRE Committee	2009-02	2009-05

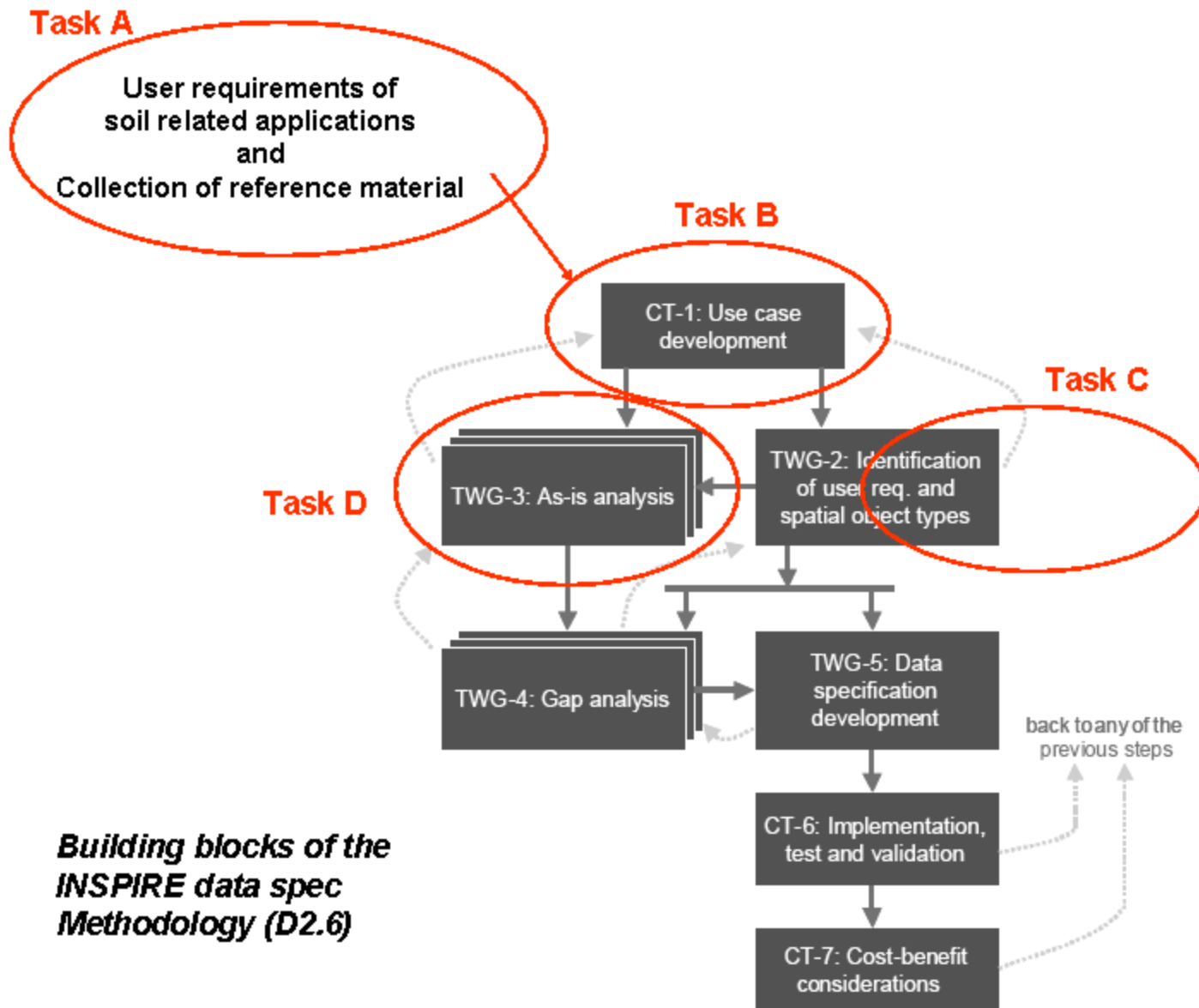


Figure 5 – The process of developing INSPIRE data specifications

# INSPIRE Tender for the ESDAC Consortium

Analyzing the soil data infratructural environment (step 1)

- Task A. Collection of user requirements of soil related applications and collection of “reference material”.
- Tasks B. Use Case development
- Tasks C. In-depth analysis of the collected reference material

# Progress Report

<b>Progress Report ESBN Working Group:</b>	
<b>1. Reporting period:</b>	November 2008 – September 2009
<b>2. Mandate</b>	
<p>The INSPIRE Directive became in force and it is decided to establish ESDAC. ESDAC will not contain all the data itself. In the case users need data from ESDAC the system will online contact the national soil databases and draw information from there. It is needed to set up a data specification for the data to be included in the ESDAC. This specification should be in line with the present data available in the European Soil Information System and the data present at national level. The mandate of the group is the development of this data specification and support to JRC activities for ESDAC</p>	
<b>3. Planned actions ongoing calendar year</b>	
<p>Assist the JRC in the process of INSPIRE data specifications by elaboration of the technical specifications for a contract that JRC could stipulate with external organizations.</p>	
<b>4. Realized activities and results reporting period</b>	
<p>During 2009, one WG meeting was held (March 2009) with the main objective to discuss the “Technical Specifications” for a contract that JRC intends to give out to the Consortium that was awarded the EC-JRC Framework Contract (FWC) for soil studies. The results of this specific contract will feed in the INSPIRE data specification process for soil, which will be tackled by an official INSPIRE Thematic Working Group (TWG) for Soil that is to be appointed by the end of 2009. Minutes of the meeting are in Annex-1.</p> <p>Before the meeting, the JRC drafted the technical specifications and sent them to WG members for comments; few comments were received. The draft specifications were also sent to the JRC INSPIRE team that made some extensive comments. All received comments were integrated in a new document, which was on the table for discussion during the WG meeting at which the WG went collectively through the specifications discussing the integrated comments and adding new ones. JRC prepared an amended version and distributed among WG members for ultimate comments. (see Annex-2). The final version was used for negotiation with the FWC consortium. A contract was stipulated between JRC and the consortium for implementation of the technical specifications; this contract started in mid-July and will deliver final results early 2010. The kick-off meeting will take place on 27 August 2009.</p>	
<b>5. Foreseen actions next reporting period</b>	
<p>JRC will keep the WG updated on future contract developments and the WG will review the outcomes of the contract. The JRC will keep the WG informed on call for experts for the official INSPIRE TWG for Soil. The WG will candidate itself for participation in the TWG Soil. The WG Chair could possibly candidate for TWG “facilitator”.</p>	
<b>General conclusion</b>	we are <i>in line</i> with the plans

# Major work steps after Paris, 2008

- Creation of a draft specification of the work to contract, Version 1
- Meeting on the 17<sup>th</sup> of March, 2009, Ispra, Version 2
- Version 3
  - Major changes are:
    - addition of policy areas list
    - removal of Task-D (As-is analysis)
    - an indication of the duration of the tasks and total duration
    - a change of person-power in Task-C from 30 to 35, so that we end up with a total of 100 person-days.

# Major work steps after Paris, 2008

- Version 4
  - Main changes are in:
    - the list of policy areas
    - the text and correct phrasing (according to INSPIRE)
    - the minimum amount of applications:  
lowered from 40 to 25, but 5 to 10  
applications with a cross-border or pan-European element in it; to be covered with 25 person-days.
- Finalization of the text and transferring it to JRC
- 24 August 2009, the JRC had (by video-conference) the kick-off meeting with Cranfield University for the contract lasting for 7.5 months

# Next steps

- Proposal for process:(Postponed!)
  - April-June 2009: composition of TWGs Annex II and III
    - kick-off (Postponed!)
  - TWGs will propose own work programme
    - Taking into account the tasks (Postponed!)
  - Draft INSPIRE data specifications ready by Summer 2011
    - Followed by testing and stakeholder consultation (Postponed!)
  - Commission to draft Implementing Rules (legislative measures) based on draft specifications (Postponed!)
  - May 2012: INSPIRE Committee to vote on proposed legislative measures (Postponed!)



# Next steps

- ESDAC, considered as a “European-level” soil data node in a network of “national” soil data nodes, tries to identify where the soil related data are. This could be the subject of a study
  - ESDAC to discover which soil data are available and where to get them from.
- GSSoil harmonization

# Outline of Discussion Forum 1

## Developing a European soil data hierarchy

- How should ESDAC really work?
- Does the view of national soil data providers match that of the Commission
- Guidelines to the JRC for developing