



# LPIS as part of the NSDI of Bulgaria

LPIS

Sofia, 17-18 September 2008





## LPIS as part of the NSDI of Bulgaria

# State of the implementation/transposition of INSPIRE in Bulgaria

### Premises:

- Directive 2007/2/EC – published in EC OJ on 25 April 2007, in force since 15 May 2007.
- Resolution of Council of Ministers on 19 April 2007
- E-governance Act accepted by the Parliament on 30 May 2007 (S.G. № 46/12 June 2007)
- Order by the Prime Minister (17 September 2007) to form Inter-ministerial work-group
- Resolution of Council of Ministers on 31 January 2008 for approval of ACTION PLAN for INSPIRE DIRECTIVE (SPATIAL DATA) implementation
- Resolution of Council of Ministers on 22 February 2008 – nominates SAITC as an institution responsible for transposition and implementation of the Directive INSPIRE.





## LPIS as part of the NSDI of Bulgaria

### State of the implementation/transposition of INSPIRE in Bulgaria

#### Done till now:

- formed work-group which elaborated a draft program (Action plan) for integrated spatial data bases
- formed Inter-ministerial work-group which approved the draft program, considered some templates of questionnaires, selected one, and asked governmental institutions, spatial data holders, to fill and return them
- Resolution of Council of Ministers for approval of draft program (ACTION PLAN) for INSPIRE DIRECTIVE (SPATIAL DATA) implementation
- The Council of Ministers nominated SAITC as an institution responsible for transposition and implementation of the Directive INSPIRE

#### Steps to be taken:





## LPIS as part of the NSDI of Bulgaria

### LPIS and INSPIRE or INSPIRE and LPIS

**DIRECTIVE 2007/2/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
establishing an Infrastructure for Spatial Information in the European  
Community (INSPIRE)**

Infrastructure for integrated spatial information services that should allow the users to identify and access spatial or geographical information, visualise information layers; Coordination and reporting

LPIS and most agricultural data sets are not in the Annexes

The INSPIRE Directive gives a base for:

- easy creation of the SDI, it provides a package of methodologies,
- use of standards - ISO191xx and other standards,
- provides an interoperability framework for other initiatives,
- avoids duplication.







## LPIS as part of the NSDI of Bulgaria

### Some key words:

(11) Many initiatives are taken at national and Community level to collect, harmonise or organise the dissemination or use of spatial information. Such initiatives may be established by Community legislation, such as ....Regulation (EC) No 2152/2003 of the European Parliament and of the Council of 17 November 2003 concerning monitoring of forests and environmental interactions in the Community (Forest focus) (5), in the framework of Community funded programmes (for example Corine land cover, European Transport Policy Information System) or may emanate from **initiatives** taken at national or regional level. This Directive **will not only complement** such initiatives by providing a framework that will enable them to become interoperable, but it will also build upon existing experience and initiatives rather than duplicate the work that has already been done.

(14) The implementation of the **national infrastructures** should be progressive and, accordingly, the spatial data themes covered by this Directive should be accorded different levels of priority. The implementation should take account of the extent to which spatial data are needed for a **wide range of applications in various policy areas**, of the priority of actions provided for under Community policies that need harmonised spatial data and of the progress already made by the harmonisation efforts undertaken in the Member States.

(17) Network services are necessary for sharing spatial data between the various levels of public authority in the Community. Those network services should make it possible to discover, transform, view and download spatial data and to invoke spatial data and e-commerce services. The services of the network should work in accordance with commonly agreed specifications and minimum performance criteria in order to ensure the interoperability of the infrastructures established by the Member States. **The network of services should also include the technical possibility to enable public authorities to make their spatial data sets and services available.**





## LPIS as part of the NSDI of Bulgaria

### Key parts of LPIS are in INSPIRE annexes (some partly)

#### **ANNEX I**

##### 6. **Cadastral parcels**

Areas defined by cadastral registers or equivalent.

#### **ANNEX II**

##### 2. Land cover

Physical and biological cover of the earth's surface including artificial surfaces, **agricultural areas**, forests, (semi-)natural areas, wetlands, water bodies.

#### **ANNEX III**

##### 3. Soil

**Soils** and subsoil characterised according to depth, texture, structure and content of particles and organic material, stoniness, erosion, where appropriate mean slope and anticipated water storage capacity.

##### 4. Land use

Territory characterised according to its current and future planned functional dimension or socio-economic purpose (e.g. residential, industrial, commercial, **agricultural**, forestry, recreational).

##### 9. **Agricultural and aquaculture facilities**

Farming equipment and production facilities (including irrigation systems, greenhouses and stables).

##### 11. Area management/restriction/regulation **zones and reporting units**







## LPIS as part of the NSDI of Bulgaria

# Is LPIS as a piece of the puzzle NSDI/INSPIRE?

### Some definitions:

#### CHAPTER I

#### GENERAL PROVISIONS

##### Article 3

For the purposes of this Directive, the following definitions shall apply:

1. 'infrastructure for spatial information' means metadata, spatial **data sets** and spatial data **services**; network services and technologies; agreements on sharing, access and use; and coordination and monitoring mechanisms, processes and procedures, established, operated or made available in accordance with this Directive;

**SDI (resp. NSDI)** - Spatial Data Infrastructure is the base collection of technologies, data, human resources, policies, institutional arrangements, and partnerships that enable the availability, exchange of and access to geographically-related information using common practices, protocols, and specifications. SDI consists of a framework that enables users with different mandates and disciplines to operate in a cooperative and cohesive manner to acquire access, retrieve, analyze and disseminate geospatial data and information in an easy and secure way.

**LPIS** is a tool for treatment of specific geo spatial data for specific purposes – it works in **spatial dimension**

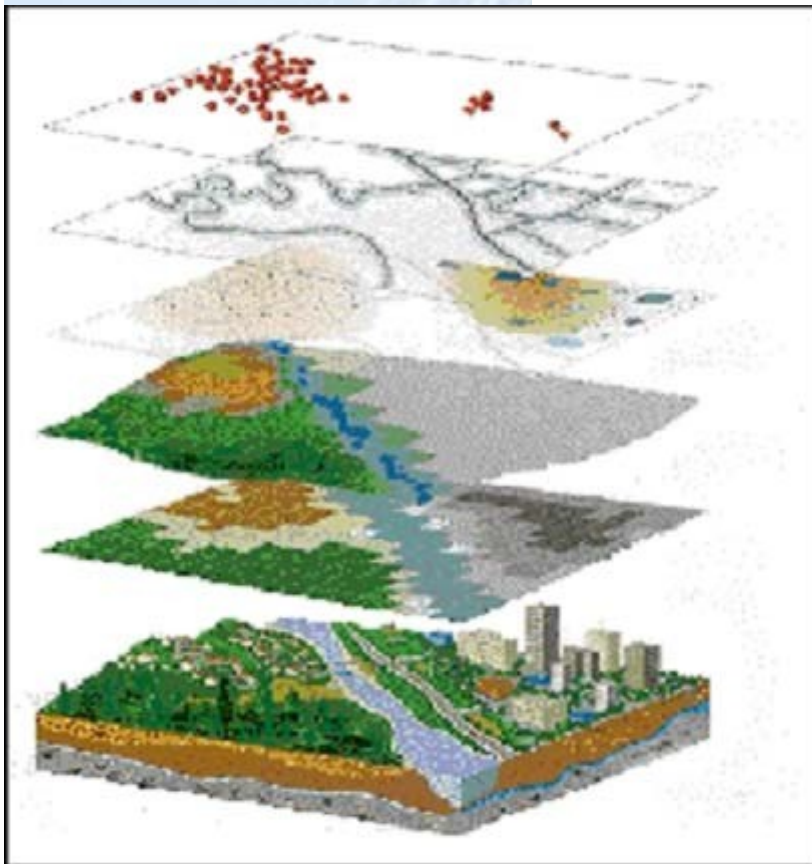
More or less the SDI is a set of sector/thematic oriented SD-structures (some call them “layers”); When we combine them in a country we have NSDI; when we combine NSDI of different countries we could have international – ISDI or EUSDI which is one of the goals of INSPIRE.





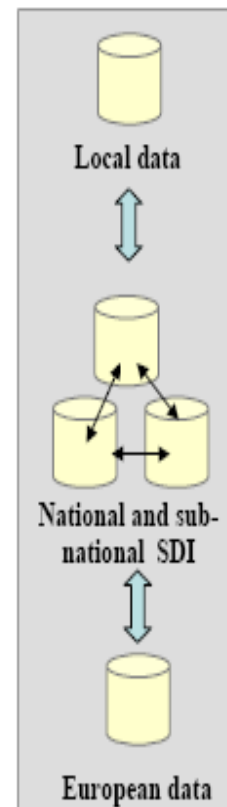
## LPIS as part of the NSDI of Bulgaria

The themes of LPIS take significant part in the SPATIAL DATA THEMES – are they layer/s in the global picture?

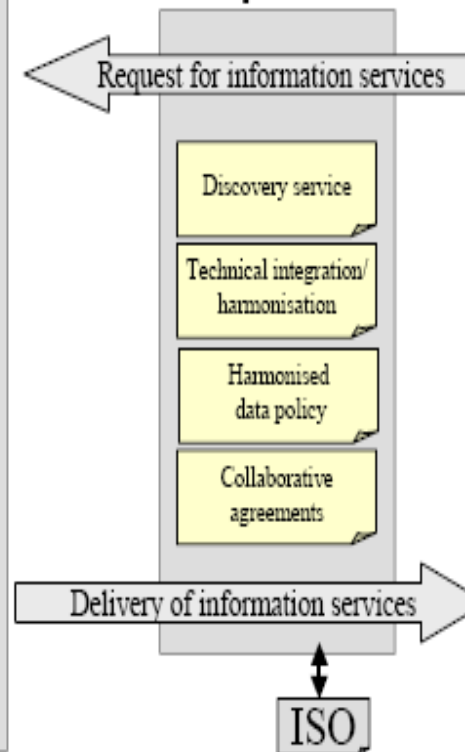


## INSPIRE information flow

### Data resources



### INSPIRE specifications



### Users



SDI – Spatial Data Infrastructure





## LPIS as part of the NSDI of Bulgaria

### NSDI of Bulgaria

Since 2004, efforts have been made to structure the Bulgarian SDI activities. The work is coordinated by two agencies and they are playing an important role in this process:

The State Agency for Information Technology and Communications (SAITC) and,

The Agency for Sustainable Development and Eurointegration (ASDE).

The objective is to coordinate activities of different ministries that produce and use spatial data, the specific state agencies, regional and local authorities, etc. The collaboration with the private sector is also seen as important. Major efforts are made to develop new datasets which are basic components for the building the INSPIRE oriented Bulgarian SDI.





## LPIS as part of the NSDI of Bulgaria

### Conclusions

One significant piece of Bulgarian NSDI is the new e-governance act. What is the most specific in the act?

E-governance means **datasets** and **services** with them!!

Could we say “LPIS is a service with agricultural data”?







LPIS as part of the NSDI of Bulgaria

Thank you for your attention!

LPIS

**Questions?**

**Opinions?**

