National Spatial Data Infrastructure:

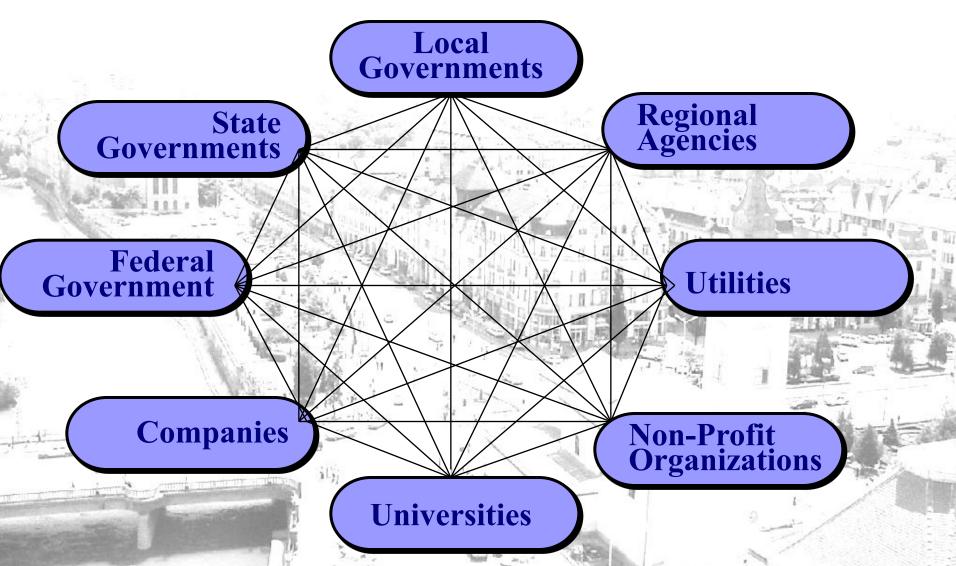
Between Necessity and Possibility

Droj, G.; Mancea, A.; Buda, A.

The power of GIS is the power of partnership.

An universal approach and extensive government support make it all possible

Partnership Organization



Standards

Information Architecture

Data Maintenance

Training

Formal Agreements

Data Models

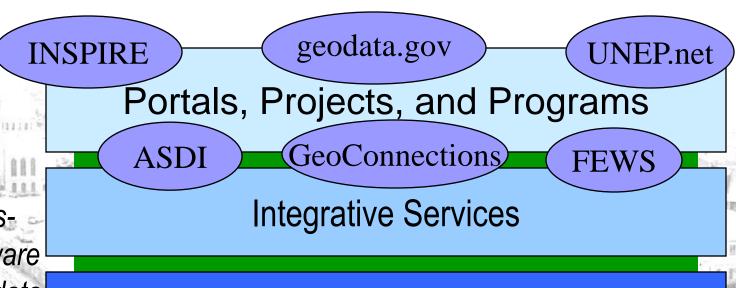
High-speed Networks

Synchronized Schedules

Spatial Data Infrastructure

- SDIs generally seeks to establish a minimum environment that enables applications to flourish using compatible standards and policies.
- The infrastructure provides the bridge between data and applications.

The New Paradigm of SDIs

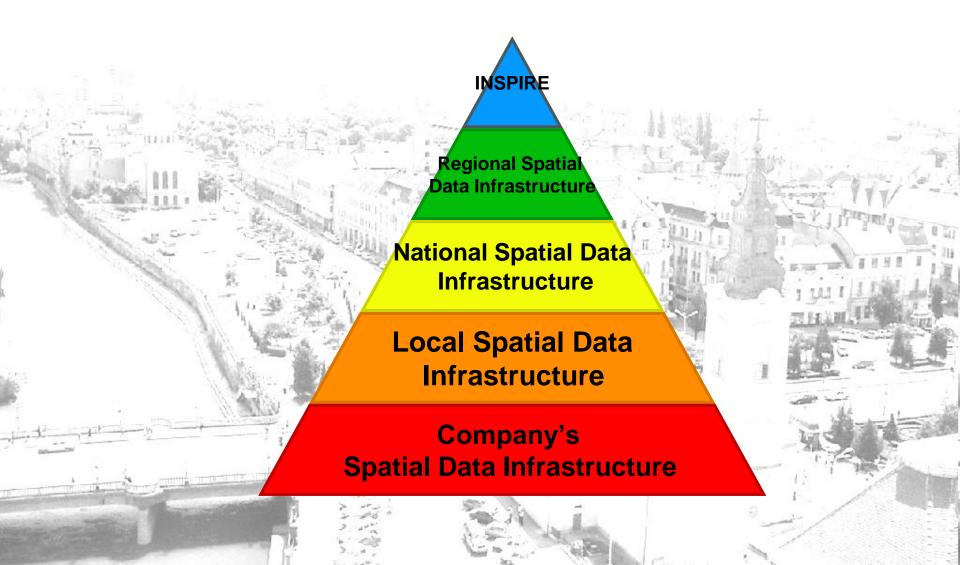


Standardsbased software Interfaces, data content models, and operational agreements

Access & Discovery Services

Data Sources

Spatial Data Infrastructure



Levels of interoperability

Institutional level:

- □ Access rules
- Data protection
- Copyright

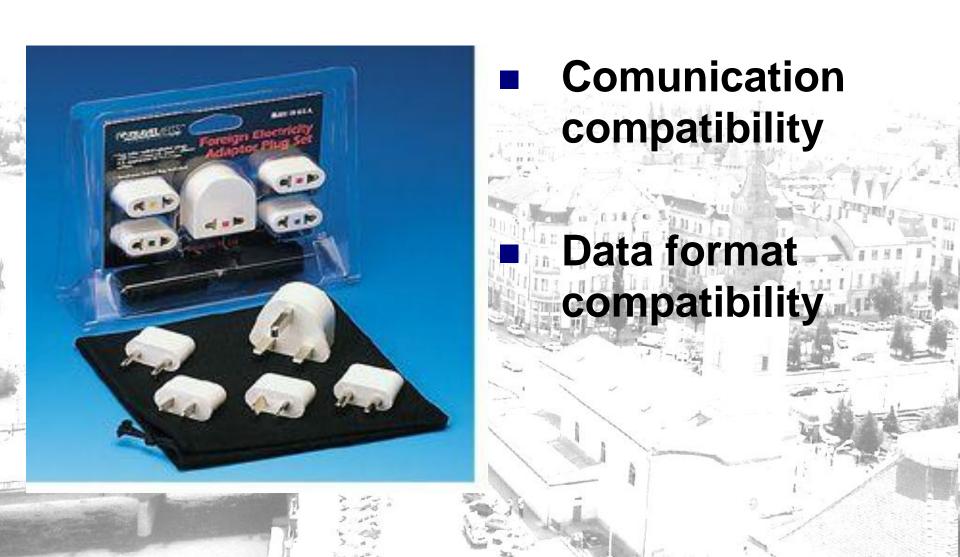
Technical level:

Hardware, software and comunication protocols compatibility

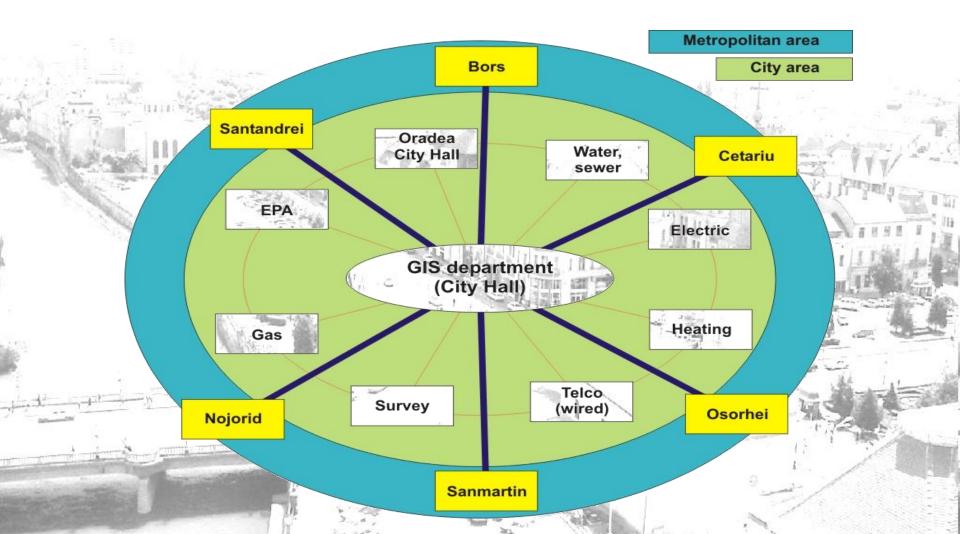
Semantic level:

Data standards
Public data

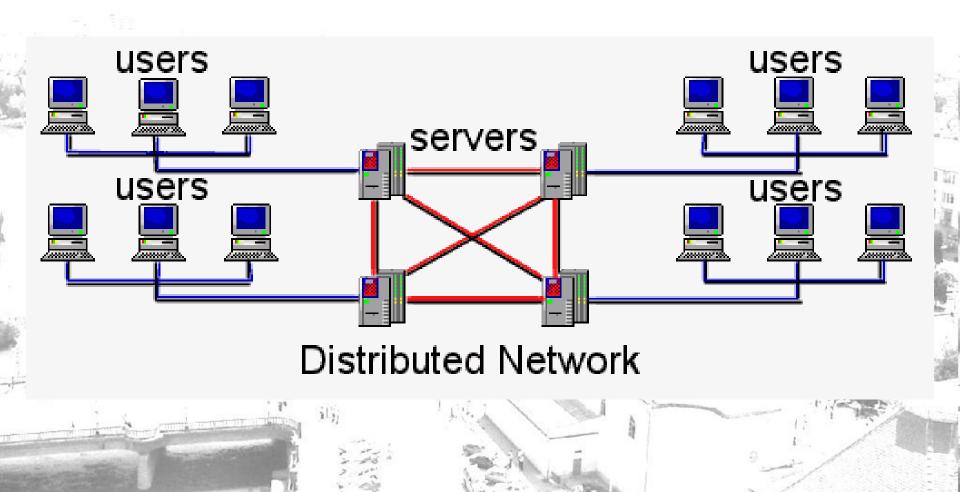
Interoperability- example



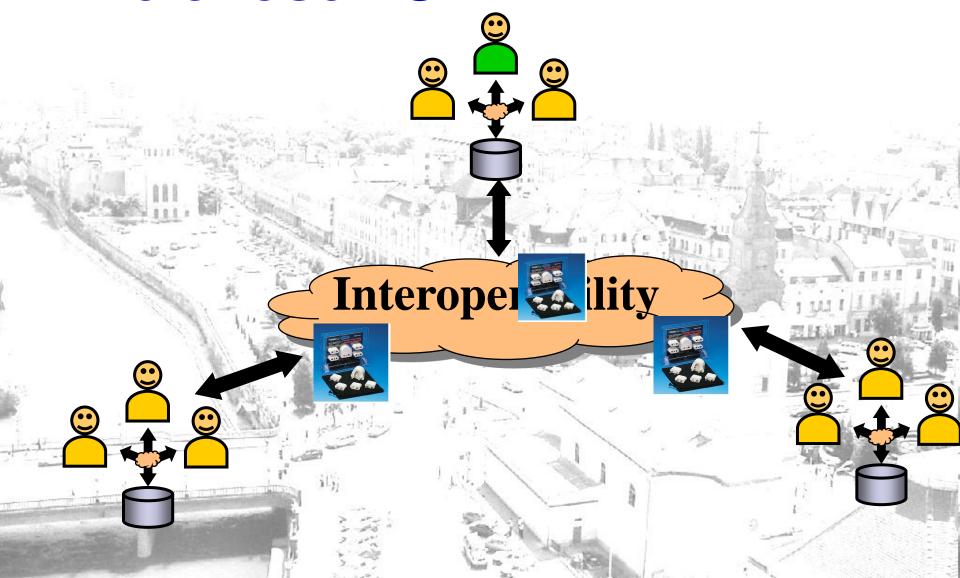
Vision



The chosen SDI



The chosen SDI



Necessary Steps

Preliminary steps

- To define the geospatial data structures and data standards,
- To establish and to define classified lists of unique codes at metropolitan level
- To solve the communication and problems at metropolitan level
- To establish the access and sharing rules for data (public data, private data, shared just between partners)
- To establish the data transfer format which is recognized by all the software used by the partners

Necessary Steps

- The correlation of existing geospatial data with the established data standards for each partner
- The integration of all geospatial data and alpha numeric data
- The implementation of necessary software modules for data exchange and interrogation
- The implementation of necessary software modules for Intranet and Internet portals

