

Infrastructure for Spatial Information in Europe - INSPIRE -

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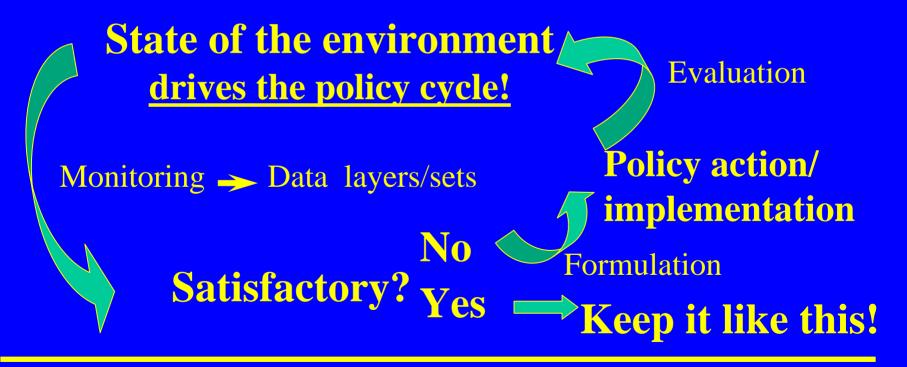
Infrastructure for Spatial Information in Europe - INSPIRE -

- 1. Policy context
- 2. Legal Framework
- 3. Implementation
- 4. Current status of legal framework



Policy context for INSPIRE

6th Environmental Action Programme Sustainable Development Strategy Governance white paper





6th Environmental action programme

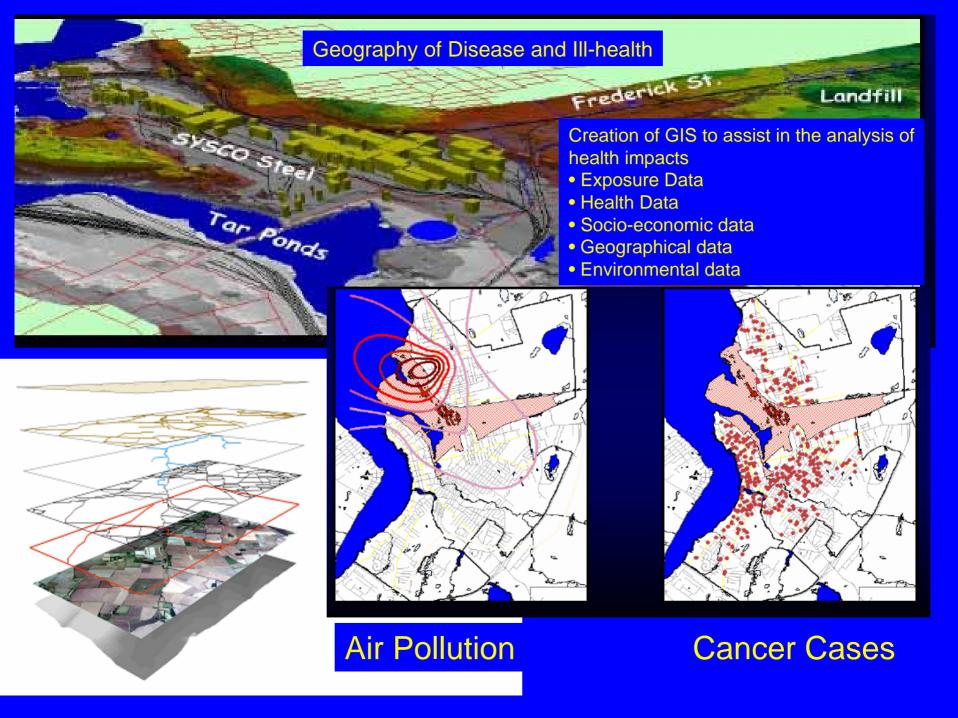
Complexity of environmental problems - interrelation between issues



Integrated policy-making: 4 priorities climate change, nature and biodiversity, environment and health, waste and resources, 7 thematic strategies: soil, marine, natural resources, pesticides, air pollution, urban, waste recycling



Integrated approach to knowledge gathering



Spatial data component	Environmental issue												
	Water – inland, sea	Air and climate change	Nature/biodiversity	Soil	Land	Waste	Noise	Health	Hazards/risks	Transport and environm.	Agriculture/forestry	Energy	Coast (land/sea)
Geographical location													
Geodetic reference	X	X	X	X	X	X	X	X	X	X	X	X	X
system													
Geographical grids	X	X	X	X	X	X	X	X	X	X	X	X	X
Monitoring sites	X	X	X	X	X	X	X	X	X	X	X	X	X
Geographical names	X	X	X	X	X	X	X	X	X	X	X	X	X
Administrative units													
Official administrative	X	X	X	X	X	X	X	X	X	X	X	X	X
units													
Elevation													
Elevation	X		X	X	X		X		X				X
Bathymetry	X		X				X	X					X
Coastline	X						X	X					X
Geo-physical environment													
Bedrock geology	X		X	X				X					X
Geo-morphology					X		X		X				X
Soil	X		X	X	X	X	X				X		X
Hydrography													
Hydrography			X	X	X	X		X	X	X	X	X	X
Water catchments	X		X	X	X	X		X	X		X	X	X

Source:
INSPIRE
ETC
position
paper



INSPIRE Legal Framework: General Issues

Initiators: ENV, ESTAT, JRC - supported by MoU

also support of INFSO and RTD

Context: Cross-sectoral initiative, starting as a platform

for ENV policy needs, extendable to support

multiple policies

Objective: Unlock spatial information to support our policies

Scope:

- Creation of spatial data infrastructure
 - Existing spatial data from Public sector
 - Electronic format
 - National to local
 - 17 themes
 - Environmental data
 - Cross-sector data

1. Legal Framework (Cont.)

17 Themes:

- 1. Geographical location
- 2. Administrative units
- 3. Properties, buildings and addresses
- 4. Elevation
- 5. Geo-physical environment
- 6. Land surface/land cover
- 7. Transport
- 8. Utilities and facilities
- 9. Society and population

- 10. Spatial planning/ Area regulation
- 11. Air and climate
- 12. Water/hydrography
- 13. Ocean and seas
- 14. Biota/biodiversity
- 15. Natural resources
- 16. Natural and technological risks and natural disasters
- 17. Areas under anthropogenic stress

1. Geographical location	7. Transport	13. Ocean and seas
1.1 Geodetic reference systems	7.1 Transport networks	13.1 Oceanographic features
1.2 Geographical names	7.2 Transport services	13.2 Sea regions
1.3 Geographical grids	8. Utilities and facilities	14. Biota/biodiversity
2. Administrative units	8.1 Transmission lines and pipelines	14.1 Biomes/ Bio-ecological
2.1 Official administrative units	8.2 Environmental protection facilities	14.2 Vegetation
2.2 Government management zone:	14.3 Habitats and biotopes	
2.3 Blocks, census and statistical	8.4 Production facilities, industry	14.4 Species distribution
districts	Agricultural	15. Natural resources
2.4 Civil security units	8.5 Trade and service facilities	15.1 Ecosystem resources
2.5 Environment management &	9. Society and population	15.2 Water resources
reporting units	9.1 Urban and rural settlement	15.3 Agricultural land and soil
2.6 Postal codes/regions	9.2 Demography	resources
3. Properties, buildings and	9.3 Human health and safety	15.4 Forest resources
addresses	9.4 Cultural heritage	15.5 Fishery resources
3.1 Properties	9.5 Natural amenities	15.6 Geological resources
3.2 Buildings	10. Spatial planning/Area regulation	115.7 Renewable energy resources
3.3 Addresses	10.1 Land use plans	16. Natural and technological risks
4. Elevation	10.2 Protected sites	and natural disasters
4.1 Terrestrial elevation	10.3 Area restriction/regulation zones	16.1 Natural risk vulnerability zones
4.2 Bathymetry	11. Air and climate	16.2 Technological risk vulnerability
4.3 Coastline	11.1 Air and atmospheric conditions	zones
5. Geo-physical environment	11.2 Meteorological spatial features	16.3 Technological accidents and
<u>5.1 Soil</u>	11.3 Climate zones	natural disasters
5.2 Geo-morphology	12. Water/ Hydrography	17. Areas under anthropogenic
5.3 Bedrock geology	12.1 Hydrographic networks/ Surface	stress
6. Land surface/Land cover	water bodies	17.1 Polluted areas
6.1 Land cover	12.2 Water catchments	17.2 Noise and radiation zones
6.2 Landscape	12.3 Groundwater bodies/aquifers	17.3 Areas of intensive exploitation
6.3 Orthophoto-images		
6.4 Unclassified satellite data		



Legal Framework: Obstacles & Measures

Obstacle 1: Documentation on information is lacking

Measure 1: (ST – MT) Document to standards and maintain

Obstacle 2: GAPS in spatial data

Measure 2: (MT – LT) Make cross-sector spatial data available =

NOT IN INSPIRE FRAMEWORK, BUT DAUGHTERS!!

Obstacle 3: Data is not compatible

Measure 3: (MT – LT) Contribute to standards and harmonise

Obstacle 4: Incompatible GIS initiatives

Measure 4: Establish IT service network to publish,

discover, evaluate, view and access according

to common standards

Obstacle 5: Barriers to use of spatial data

Measure 5: Establish licensing framework to share



Implementation

- Preparation of implementation on a voluntary basis:
 - establishment of precursor co-ordination structures
 - definition of implementation programme and starting its execution
 - preparation of implementing legislation
- Key issues for implementation:
 - Linkage to GMES
 - Use of existing funding programmes
 - Engagement of stakeholders: geospatial interest groups



Current status and future steps

- Internet consultation finished since 29 May:
 - ->More than 180 replies
 - ->Strong support from stakeholders: 88% of the respondents consider that at least some of the obstacles should be addressed by INSPIRE (76% consider that all should be addressed)
- Ongoing extended impact assessment: due by end of June 2003
- Future Steps
 - -> October: Adoption of proposal
 - -> **November:** Start discussion in Council under IT presidency and in European Parliament