

Revised scope of INSPIRE

5 INSPIRE principles remains unchanged

Main aim: establishment of a European Spatial Data Infrastructure (= spatial data, services, guidelines, data sharing, access, organisation)

INSPIRE is not aiming at an extensive programme of new data collection

Reduced ambition, checked with public internet consultation results from 2003



ESDI driven by environmental needs

INSPIRE focus: environment as the driver

- analysis of policies versus spatial data needs
- maximise efficiency: multi-purpose datasets, cost-effectiveness

Need for a common geographic framework

- basic spatial reference data = common foundation for spatial data integration supporting environmental and sectoral policies
- logical starting point for ESDI: common conceptual data model for all spatial data objects

Improved sharing of commonly used spatial data

- Easy access across the Community
- Spatial coherence
- Interoperability (where relevant)



Reduced ambition

Limited number of thematic issues, focus on basic reference data and commonly shared thematic data

Reduced requirements on harmonisation and interoperability of spatial datasets and services (differentiation between Annex I and Annex II data)

Only relevant for those data at local level that is coordinated at a higher level or required by legislation

Reduced ambition of services related to data collection obligations, view, metadata, download, transformation, e-commerce

=> *Impact (+/-) of reduced ambition assessed by XIA Task Force*



Policies versus data requirements

Common reference and thematic data requirements:

- 6EAP strategies
(health, marine, urban, soil, air, biodiversity)
- implementation of policies
(water, climate change, forest, noise, SEA)
- policy monitoring and review
(EIA, EPER, Seveso, nitrate, waste, habitats)
- local, regional, national level

	6EAP Strategies						Policy Implementation					Policy review/monitoring				
	Environment & Health	Marine thematic strategy	Urban thematic strategy	Soil protection thematic strategy	Biodiversity strategy	Air quality Directive - Café	Water Framework Directive	IPCC - Climate change	Noise	Forest protection	SEA	Nitrate Directive	Waste framework Directive	Habitats/Birds Directive	EIA	IPPC - EPER
I Coordinate reference systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Geographical names	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Administrative units	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Ortho-imagery	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Transport networks	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Hydrography/water catchments	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Elevation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Land cover	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Cadastral parcels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Geographical grid systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Protected sites	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
I Addresses	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Land use and land use plans	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Meteorological spatial features	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Population distribution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Species distribution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Government service and environmental monitoring facilities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Habitats and biotopes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Statistical units	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Bio-geographical regions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Agricultural and aquaculture facilities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Buildings	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Natural risk zones	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Area management/restriction/regulation zones & reporting units	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Production and industrial facilities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Geology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Human health and safety	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Atmospheric conditions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Oceanic spatial features	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Sea regions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
II Geo-morphology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Noise and radiation zones	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Transmission lines and pipelines	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



INSPIRE Annex I data

Basic data

Administrative units

Transport networks

Hydrography including water catchments

Elevation (including terrestrial elevation, bathymetry and coastline)

Protected sites

Land cover

Cadastral parcels

Ortho-imagery

Referencing and coordinate systems

Coordinate reference systems

Geographical names

Geographical grid systems

Addresses including postal regions



Levels of harmonization Annex I data

Data should be consistent:

– geometrically

- geo-referencing (to allow consistent overlay of data)

– semantically

- definition of spatial objects

– logically

- unique identifiers and key attributes
- topology
- seamless cross-boundary(?)

and according to defined quality standards (e.g. accuracy, updating frequency,)



Commonly used thematic data – INSPIRE

Annex II data

Statistical units

Buildings

Soil

Geology

Land use

Human health and safety

Government service and
environmental monitoring facilities

Production and industrial facilities

Agricultural and aquaculture
facilities

Population distribution -
demography

- Area management/restriction/
regulation zones & reporting units
- Natural risk zones
- Atmospheric conditions
- Meteorological spatial features
- Sea regions
- Bio-geographical regions
- Habitats and biotopes
- Species distribution
- Oceanic spatial features



Levels of harmonization Annex II data

Data should be consistent:

– geometrically

- geo-referencing (to allow consistent overlay of data)

– semantically

- definition of spatial objects

– logical consistent

- unique identifiers of individual features and key attributes
- topology
- seamless cross-boundary
- updating frequency
- accuracy

