



## INSPIRE

### An Infrastructure for Spatial Information in Europe

#### What is INSPIRE?

**INSPIRE** is a European Directive 2007/02/EC setting the legal framework for the establishment and operation of an Infrastructure for Spatial Information in the European Community.

**INSPIRE** is based on the infrastructures for spatial information operated by European Member States.

The purpose of **INSPIRE** is to support the formulation, implementation, monitoring, and evaluation of Community environmental policies, and policies that affect the environment.

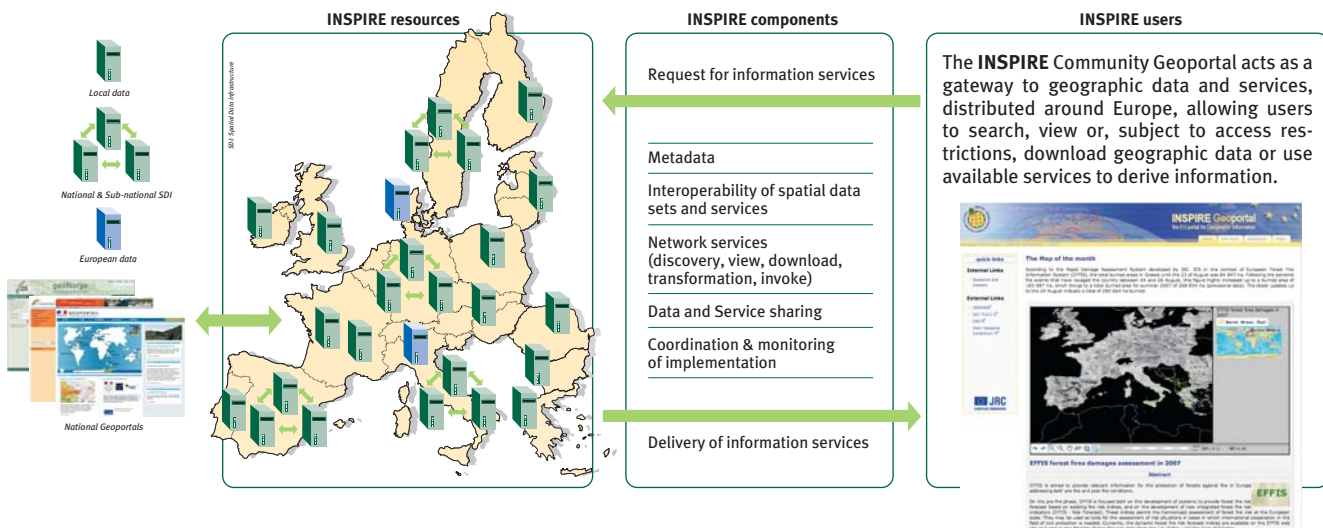
**INSPIRE** does not require collection of new spatial data.



#### INSPIRE Principles

- **Efficiency.** Spatial data are stored, made available and maintained at the most appropriate level.
- **Harmonisation & interoperability.** It is possible to combine spatial data from different sources across the EU in a consistent way and share them between several users and applications.
- **Sharing.** It is possible for spatial data collected at one level of public authority to be shared between other public authorities.
- **Access.** Spatial data are made available under conditions which do not unduly restrict their extensive use.
- **Discovery & use.** It is easy to discover available spatial data, to evaluate their suitability for the purpose and to know the conditions applicable for their use.

#### INSPIRE Information Flow



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#### INSPIRE Data Themes

##### 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.

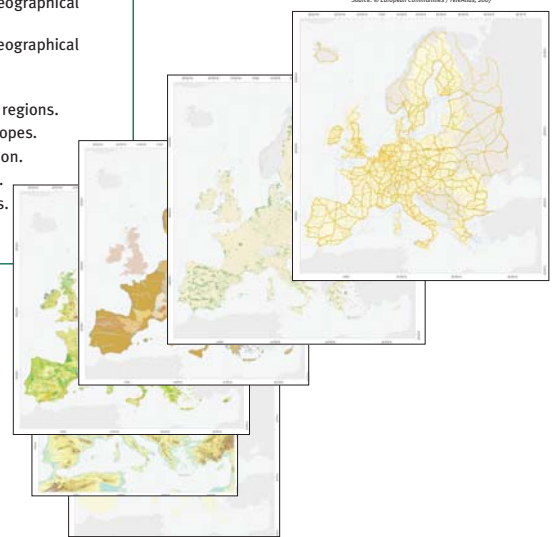
##### Annex II

- 1 Elevation.
- 2 Land cover.
- 3 Orthoimagery.
- 4 Geology.

##### Annex III

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1 Statistical units.</li> <li>2 Buildings.</li> <li>3 Soil.</li> <li>4 Land use.</li> <li>5 Human health and safety.</li> <li>6 Utility and Government services.</li> <li>7 Environmental monitoring facilities.</li> <li>8 Production &amp; industrial facilities.</li> <li>9 Agricultural &amp; aquaculture facilities.</li> <li>10 Population distribution-demography.</li> <li>11 Area management / restriction / regulation zones &amp; reporting units.</li> </ol> | <ol style="list-style-type: none"> <li>11 Area management / restriction / regulation zones &amp; reporting units.</li> <li>12 Natural risk zones.</li> <li>13 Atmospheric conditions.</li> <li>14 Meteorological geographical features.</li> <li>15 Oceanographic geographical features.</li> <li>16 Sea regions.</li> <li>17 Bio-geographical regions.</li> <li>18 Habitats and biotopes.</li> <li>19 Species distribution.</li> <li>20 Energy resources.</li> <li>21 Mineral resources.</li> </ol> |
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*Harmonised spatial data specifications more stringent for Annex I & II than for Annex III*



#### INSPIRE contribution to GEO

- Making accessible interoperable spatial data and services operated by Member States in Europe, and EU institutions.
- Developing standards and specifications relevant to the GEO effort.
- Contributing with the European geo-portal to the GEO Clearinghouse and Geo-portal.

#### GEO contribution to INSPIRE

- Contributing to the development of standards and specifications of relevance to **INSPIRE**.
- Promoting interoperability between GEO and the European Spatial Data Infrastructure.
- Promoting greater accessibility and use of interoperable earth observation data and services.

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