#### **SWIM and Horizon 2020 Support Mechanism**

Working for a Sustainable Mediterranean, Caring for our Future



#### **INSPIRE**

#### **Background and Principles**

Presented by:

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SWIM and Horizon 2020 SM REG-5: Regulatory and organizational issues of decentralized water management

17-18 April 2018, Vienna, Austria





























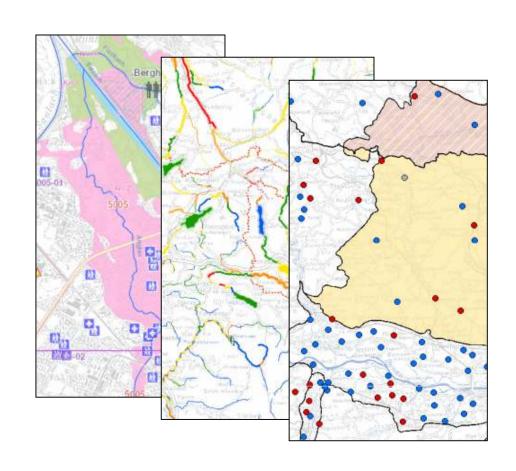
# Spatial data infrastructure for EU environmental Policies and Activities

- Enable the sharing of environmental spatial information among public sector organisations
- ❖ Facilitate public access to spatial information across Europe
- Assist in policy-making across boundaries



# Most environmental data is of spatial nature

- Monitoring sites
- **\*** Environmental quality data
- Observations
- Pressures on the environment
- Protected sites
- Hazard zones & risk areas
- ... and many more ...



# Obstacles preventing the widespread use of spatial data needed

- Gaps still remain (data missing or incomplete)
- The description of available data is often incomplete
- **A** large variety of formats exist
- **❖** Data are not interoperable

- Many data sources are not consistent
- **Scales are not compatible**
- Reference Systems are not harmonised
- Costs and access restrictions

### Needs for INSPIRE

#### **Environmental Needs**

- Better information needed to support policies
- Improvement of existing information flows
- Diversity across regions to be considered
- Revision of approach to reporting and monitoring >> moving to concept of sharing of information

#### Situation in Europe

- **❖** Data policy restrictions
- Lack of co-ordination across borders and levels of government
- Lack of standards incompatible information and information systems
- Existing data not re-useable fragmentation of information, redundancy, inability to integrate

# **INSPIRE Vision & Principles**

- Data should be <u>collected only once</u> and maintained at the level where this can be done most effectively
- It should be possible to <u>combine seamless spatial information</u> <u>from different sources</u> across Europe and share it with many users and applications
- It should be possible for spatial data collected at one level of government to be shared between all levels of government
- Spatial data needed for good governance at all levels should be readily and transparently available
- Easy to find what spatial data is available, <u>evaluate</u> its <u>fitness for purpose</u> and to know which <u>conditions</u> apply <u>for its use</u>

# **INSPIRE Scope**

- Lays down general rules to establish an infrastructure for spatial information
- Based on the infrastructure established and operated by Member States
- Does not require the collection of new spatial data
- Does not affect existing intellectualy Property Rights











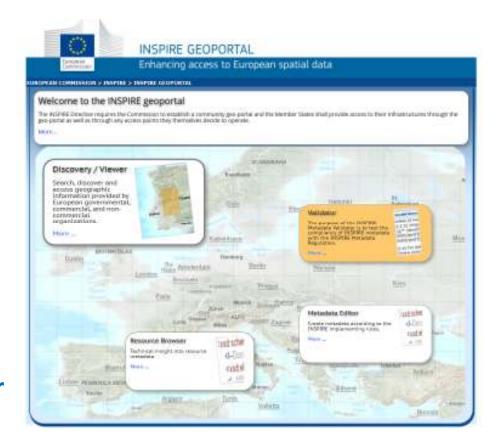






# **INSPIRE Components**

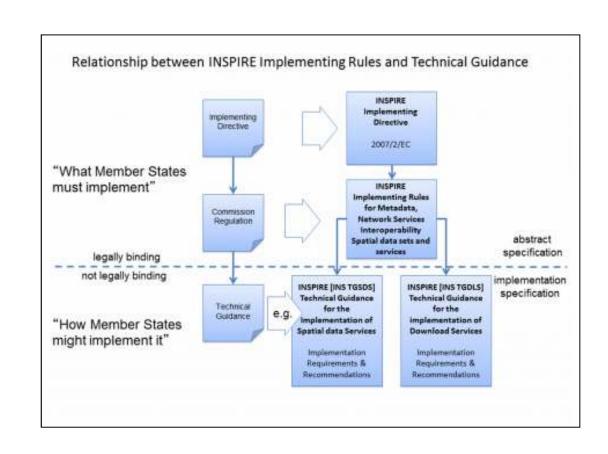
- ❖ Metadata
- Harmonisation and interoperability of spatial data sets and services
- Network services (discovery, view, download, transform, middleware)
- Data and Service sharing (policy)
- Coordination and measures for Monitoring & Reporting



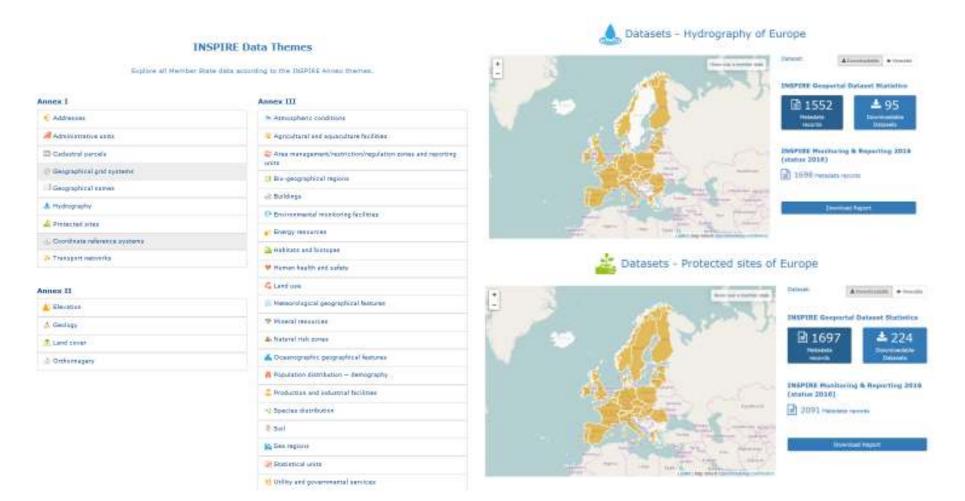
# Implementing Rules & Technical Guidance

#### **Implementing Rules**

- Metadata
- Data specifications
- Network Services
- **❖** Data and Service Sharing
- **❖** Spatial Data Services
- Monitoring & Reporting



# INSPIRE addresses 34 Spatial Data Themes



## https://inspire.ec.europa.eu/



### http://inspiregeoportal.ec.europa.eu/thematicviewer/Home.action



#### **Priority Datasets**

Explore Member States' priority datasets for eReporting related to the following domains





#### Industry

Covers industrial emissions and industrial accidents.



#### Waste

Landfill of waste, waste from extractive industries, soil, banning of exports of metallic mercury ...



#### Nature & Biodiversity

Covers conservation of natural habitats and wild fauna and flora, wild birds.



#### Water

Water Framework Directives, Urban waste water, bathing water, ...



#### Marine

Covers marine environmental policy.

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#### Thank you for your attention.

This Project is funded by the European Union

























