

Following INSPIRE: spatial data harmonization from a European perspective

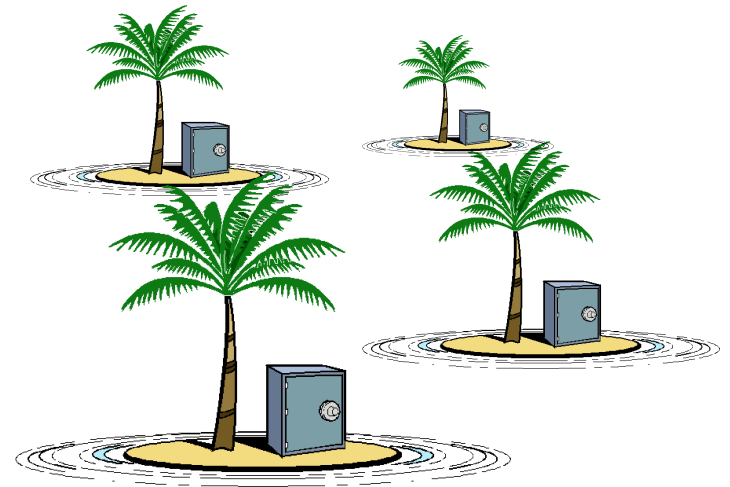
Nicola Ferrè - IZSVe

IV CONGRESSO NAZIONALE DI ECOPATOLOGIA DELLA FAUNA
Domodossola 11-13 October, 2017

Why INSPIRE?

The general situation on spatial information in Europe is one of fragmentation of datasets and sources, gaps in availability, lack of harmonisation between datasets and duplication of information collection. These problems make it difficult to identify, access and use data that is available (INSPIRE undated)

EU has islands of data of different standards and quality...



Why INSPIRE?

Data policy restrictions

pricing, copyright, access rights,
licensing policy

..in summary: no **infrastructure!**

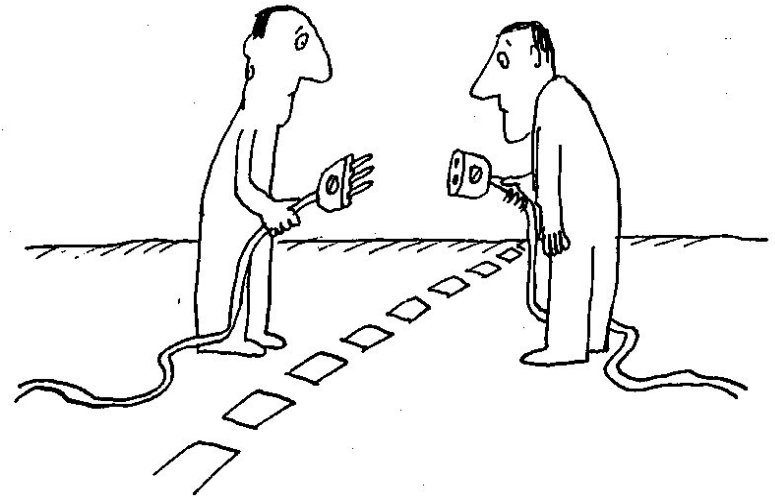
Lack of co-ordination

across borders
between levels of government

Lack of standards and their use

incompatible information
incompatible information systems
fragmentation of information
redundancy

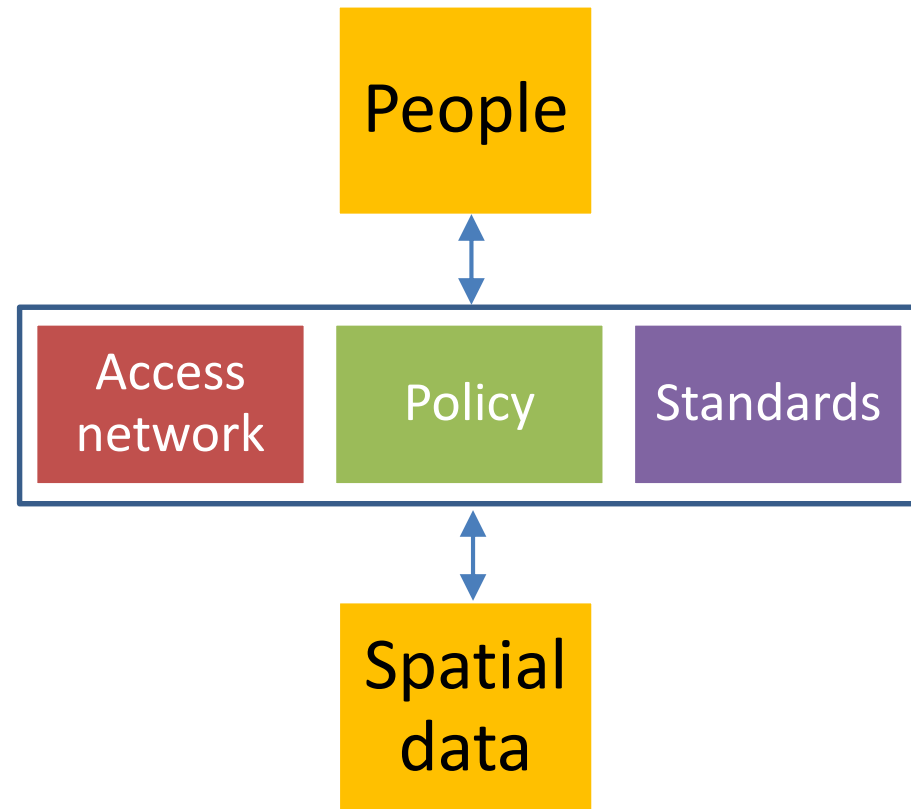
Lack of data



Spatial Data Infrastructure

Spatial Data Infrastructure (SDI)

a framework of policies,
institutional arrangements,
technologies, data and people that
makes it possible to share and
reuse effectively geographic
information



Source: Assessing the Impacts of Spatial Data Infrastructures: Methods and Gaps

Craglia M., Johnston A.

Proceedings 7th AGILE Conference on Geographic Information Science, Greece 2004

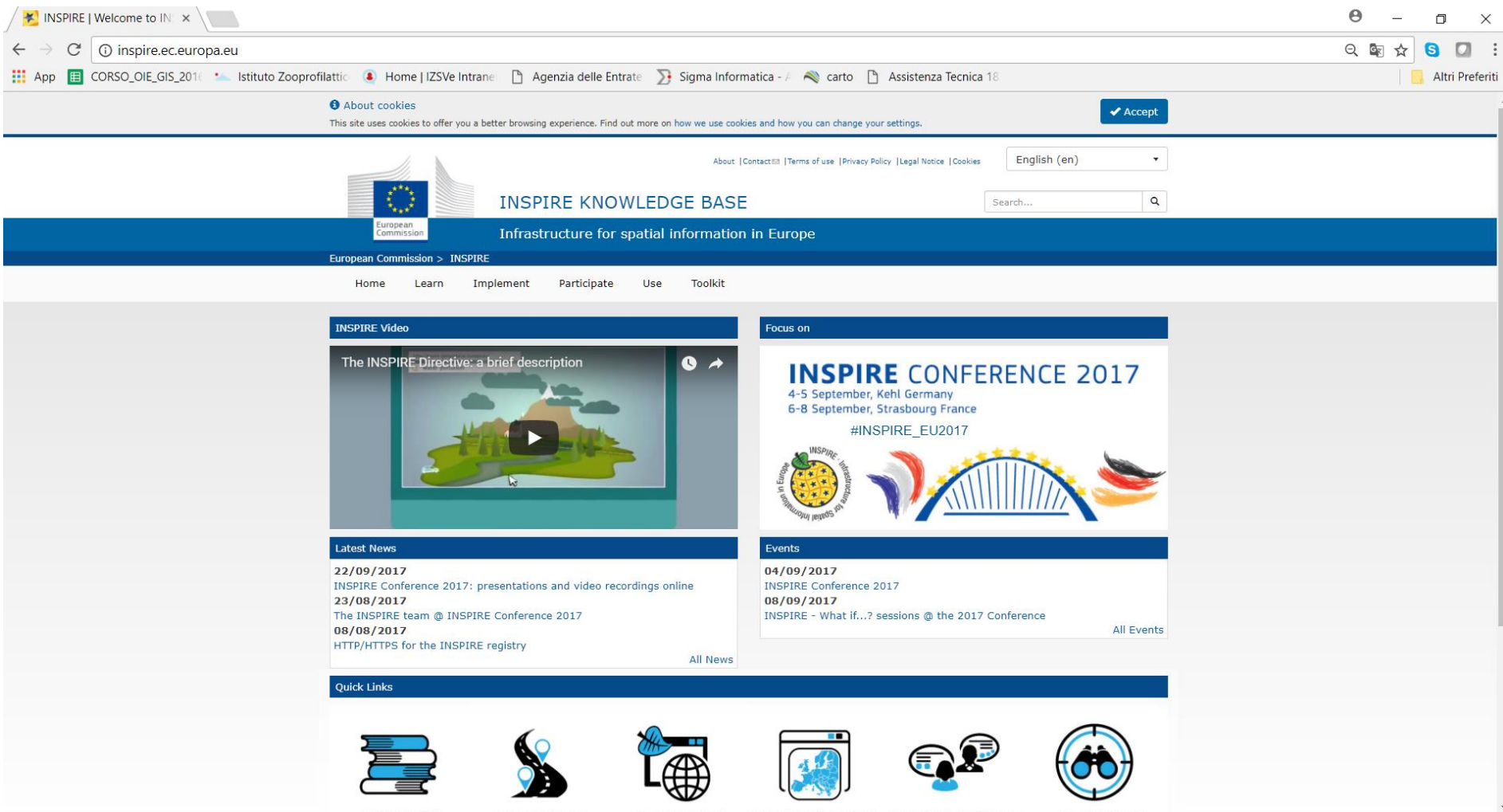
Directive 2007/2/EC - INSPIRE

- **Data should be collected once** and maintained at the level where this **can be done most effectively**.
- It must be possible to **combine seamlessly** spatial information from different sources across Europe and **share it** between many users and applications.
- It must be **easy to discover** which geographic information is available, **fits the needs** for a particular use and under what **conditions** it can be acquired and used.



A word cloud illustrating the key concepts of the INSPIRE Directive. The words are arranged in a cluster, with 'collected' being the largest and most prominent in magenta. Other words include 'share' in orange, 'data' in orange, 'conditions' in red, 'easy' in magenta, 'discover' in red, 'combine' in green, and 'seamlessly' in green.

http://inspire.ec.europa.eu/



The screenshot shows the INSPIRE Knowledge Base website in a web browser. The browser's address bar displays 'inspire.ec.europa.eu'. The website's header includes the European Commission logo, the text 'INSPIRE KNOWLEDGE BASE', and a navigation menu with links like 'Home', 'Learn', 'Implement', 'Participate', 'Use', and 'Toolkit'. A search bar is also present. The main content area is divided into several sections: 'INSPIRE Video' featuring a video player for 'The INSPIRE Directive: a brief description'; 'Focus on' highlighting the 'INSPIRE CONFERENCE 2017' with dates and locations; 'Latest News' listing recent updates; and 'Events' listing specific conference sessions. At the bottom, there is a 'Quick Links' section with icons representing various services like data access, maps, and user support.

INSPIRE | Welcome to IN x

inspire.ec.europa.eu

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English (en)

INSPIRE KNOWLEDGE BASE

Search...

European Commission

Infrastructure for spatial information in Europe

European Commission > INSPIRE

Home Learn Implement Participate Use Toolkit

INSPIRE Video

The INSPIRE Directive: a brief description

Focus on

INSPIRE CONFERENCE 2017
4-5 September, Kehl Germany
6-8 September, Strasbourg France
#INSPIRE_EU2017

Latest News

22/09/2017
INSPIRE Conference 2017: presentations and video recordings online
23/08/2017
The INSPIRE team @ INSPIRE Conference 2017
08/08/2017
HTTP/HTTPS for the INSPIRE registry

All News

Events

04/09/2017
INSPIRE Conference 2017
08/09/2017
INSPIRE - What if...? sessions @ the 2017 Conference

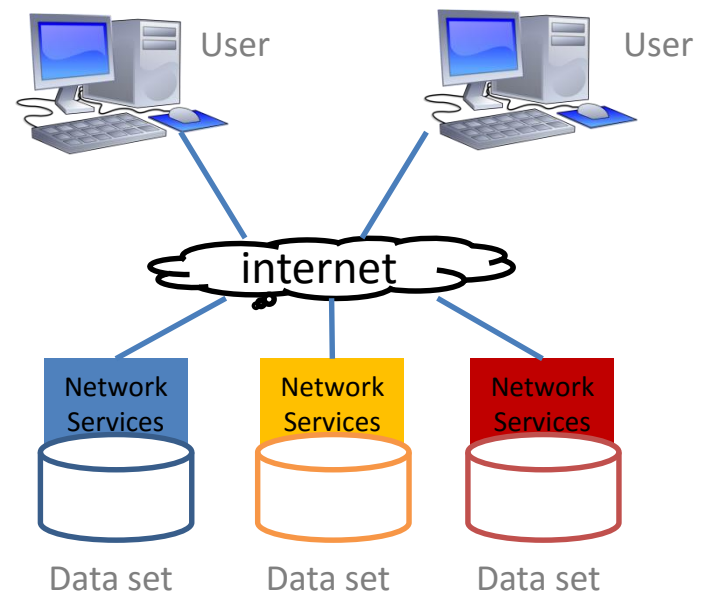
All Events

Quick Links

Icons representing various services: books, map, globe, Europe map, people, and binoculars.

..how it works..

- Datasets used in Member States may stay as they are
- Data or service providers have to provide a transformation between their internal data model and the harmonised data specification
- Provide access to spatial data via network services and according to a harmonised data specification to achieve interoperability of data



..why INSPIRE and ungulates?

ANNEX: 1



[Addresses](#)



[Cadastral parcels](#)



[Geographical grid systems](#)



[Hydrography](#)



[Transport networks](#)

ANNEX: 2



[Elevation](#)



[Land cover](#)



[Administrative units](#)



[Coordinates](#)



[Geographical features](#)



[Protected areas](#)



[Geology](#)



[Orthorectification](#)

ANNEX: 3



[Agricultural and aquaculture facilities](#)



[Atmospheric conditions](#)



[Buildings](#)



[Environmental monitoring facilities](#)



[Human health and safety](#)



[Meteorological geographical features](#)



[Natural risk zones](#)



[Population distribution and demography](#)



[Sea regions](#)



[Species distribution](#)



[Utility and governmental services](#)



[Area management / restriction / regulation zones & reporting units](#)



[Bio-geographical regions](#)



[Energy Resources](#)



[Habitats and biotopes](#)



[Land use](#)



[Mineral Resources](#)



[Oceanographic geographical features](#)



[Production and industrial facilities](#)



[Soil](#)



[Statistical units](#)

..why INSPIRE and ungulates?



INSPIRE
Infrastructure for Spatial Information in Europe

D2.8.III.19 Data Specification on *Species Distribution* – Technical Guidelines

Title	D2.8.III.19 INSPIRE Data Specification on <i>Species Distribution</i> – Technical Guidelines
Creator	INSPIRE Thematic Working Group <i>Species Distribution</i>
Date	2013-12-10
Subject	INSPIRE Data Specification for the spatial data theme <i>Species Distribution</i>
Publisher	European Commission Joint Research Centre
Type	Text
Description	This document describes the INSPIRE Data Specification for the spatial data theme <i>Species Distribution</i>
Contributor	Members of the INSPIRE Thematic Working Group <i>Species Distribution</i>
Format	Portable Document Format (pdf)
Source	
Rights	Public
Identifier	D2.8.III.19_v3.0
Language	En
Relation	Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Union (INSPIRE)
Coverage	Project duration

Species Distribution is a biodiversity theme focused on geographical distribution of occurrence of biological organisms aggregated by grid region or any administrative or analytical unit.[..]

To achieve harmonization EU Nomen is the preferred reference list for species taxon names to be used the second choice is European Nature Information System and finally Natura2000

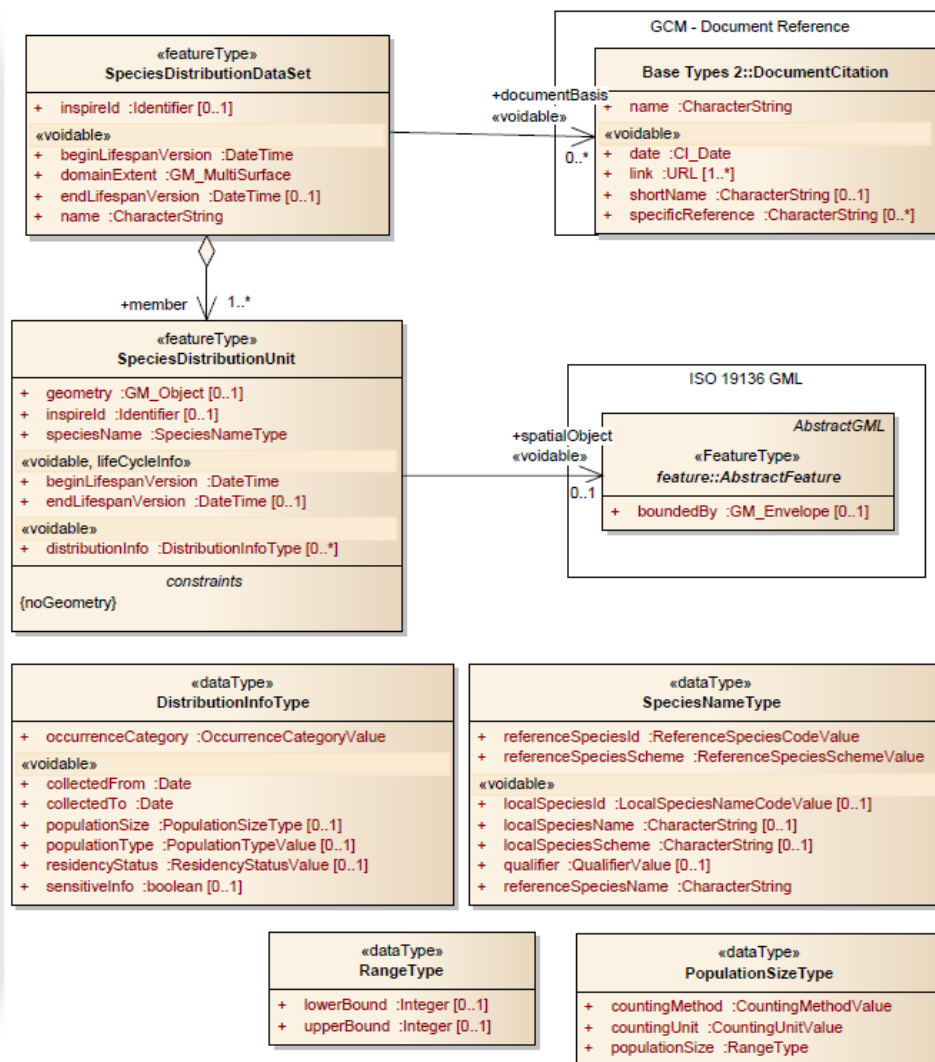
..why INSPIRE and ungulates?



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..implementation..

Ricerca Corrente - IZS VE 08/2012 RC

Prioritising infectious diseases, their early detection and control scenarios, in the ungulate populations of the North-Eastern Italian Alps.

Work package: GIS and data harmonisation

.. to define a way to harmonies the data provided by various authorities involved in the wild life control.

the step wise process

identification

- identification of the datasets that are of “wide use” among researchers

policy

- definition of a framework in order to define the set of policies, strategies and initiatives for increasing access, sharing, and use of identified information among the research community and beyond

metadata

- harmonisation of documenting existing datasets (metadata) and on the necessary tools to make this documentation accessible

harmonisation

- definition of agreed-upon data specifications. This will allow to map existing datasets to a common set of models.

technology

- for any internet platform implementation, technology is a must
- setting up W3C-compliant services for discovery, view, and access

coordination

- strategic function necessary to maintain political support and ensure policy integration
- capacity building, education and training, and technical implementation

The data catalogue

Visore metadati

10.100.113.23/gnv-fe-selvatici/it#/metadata/2917fa96-71ee-463f-b1b1-8cbd1ea313ae

App Intranet IZSve Sigma Informatica - A

Altri Preferiti

Selvatici

CATALOGO PROGETTO WEBGIS CONTATTI Italiano

RICERCA

Parole chiave

inspire

Cerca

Data di validità

da a

DETTAGLI « Torna ai risultati

Dati popolazione muflone

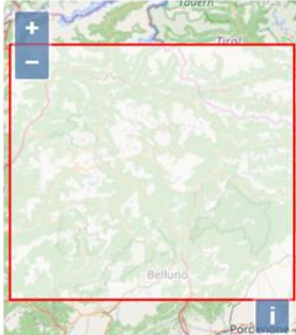
Dati riguardanti la consistenza della specie in totale e suddivisi per sesso e classi d'età; - Dati relativi alla programmazione del prelievo venatorio (Piano di Prelievo Autorizzato - Prelievo Effettuato); - Dati di mortalità (n. ritrovamenti e investimenti).

Keywords: Demografia,INSPIRE,Mortalità,Muflone,Prelievo

Date

Data di pubblicazione: 19 maggio 2014
Ultimo aggiornamento: 24 ottobre 2016 15:06:35 ora legale Europa occidentale
Data di validità: dal 01 gennaio 2010 al 31 dicembre 2010

Bounding Box



Coordinate system:
WGS84

Min. 11.45918267692417
X

Min. 46.05170258005983
Y

Max. 12.821487364180818
X

Max. 46.89421639292363
Y

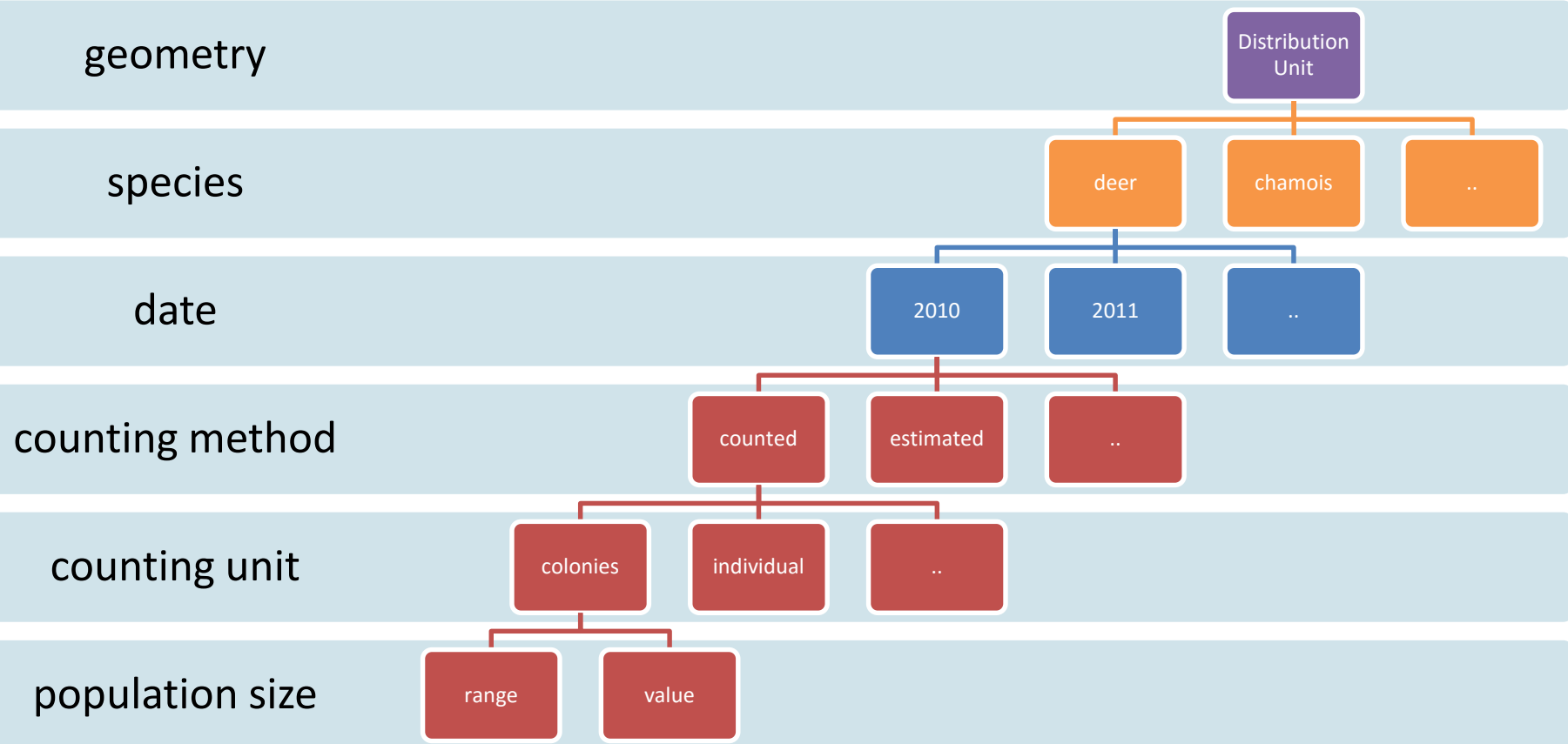
AZIONI DISPONIBILI

Mappa

Download metadato

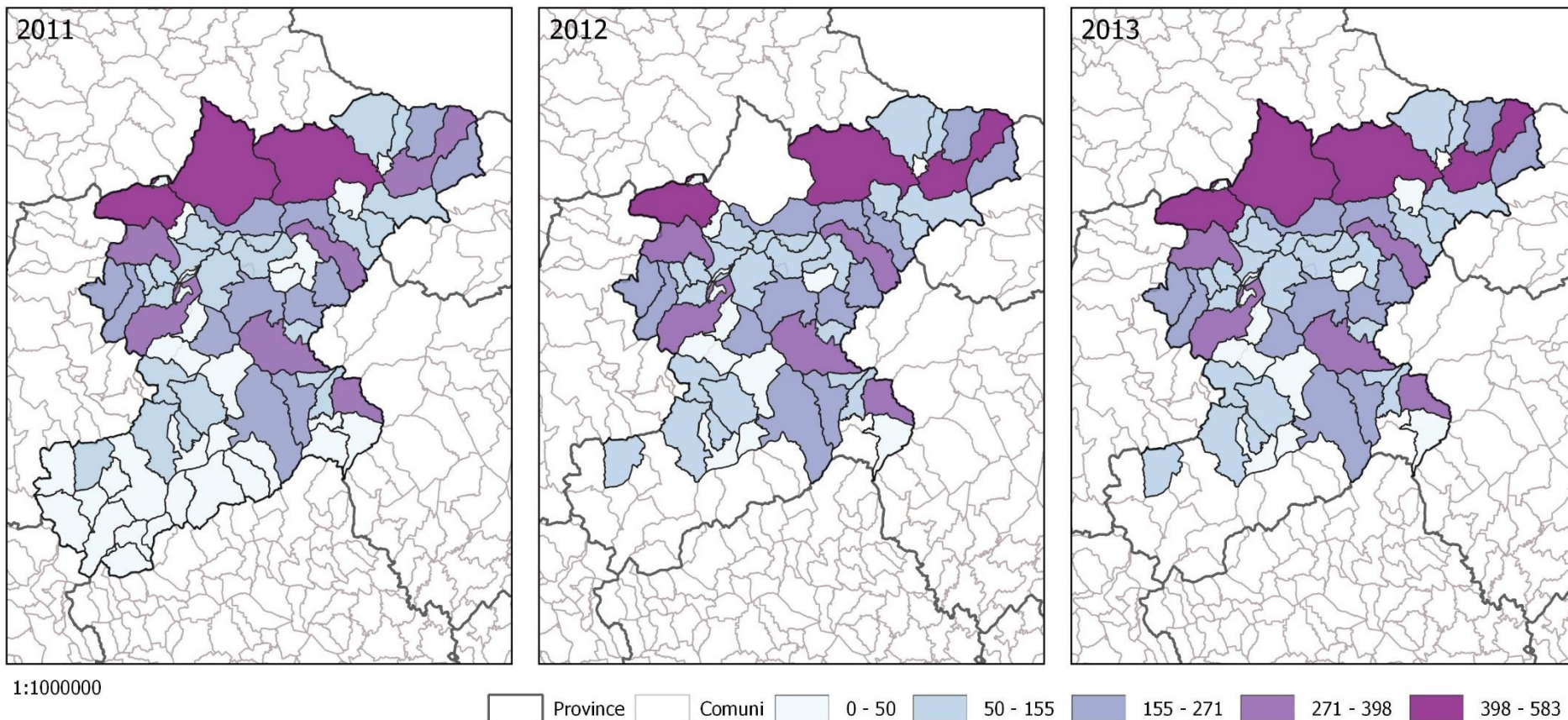
Download dato

Nested data



Examples

Distribuzione geografica del camoscio per dati calcolati e per annualità derivata dai dati definiti secondo lo schema Inspire - Species distribution



**Following INSPIRE:
data harmonization for research
activity from a European perspective**

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