The Veneto Region role for the interoperability and management of the open data

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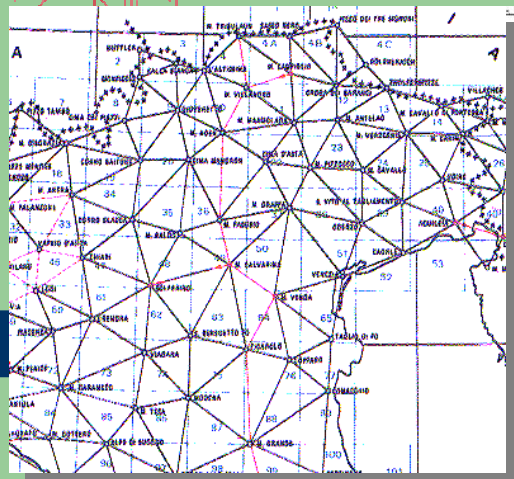
Area Infrastrutture

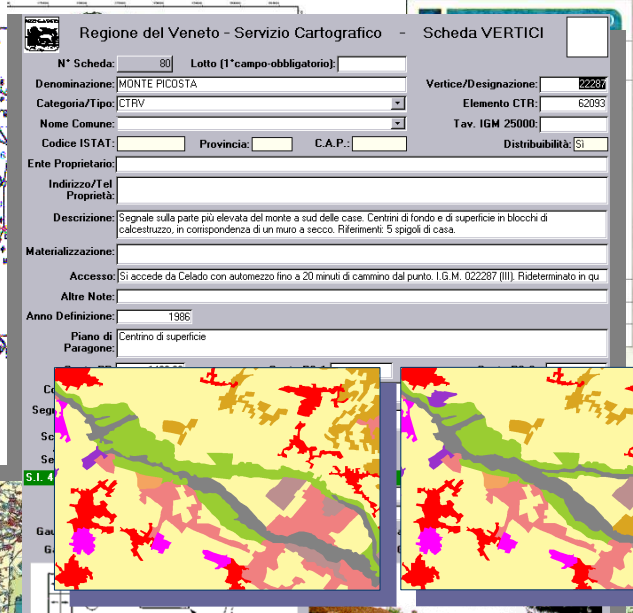
Dipartimento Territorio

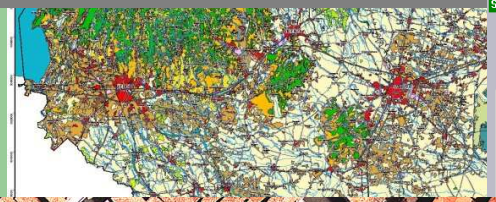
Sezione Pianificazione Territoriale Strategica e Cartografia

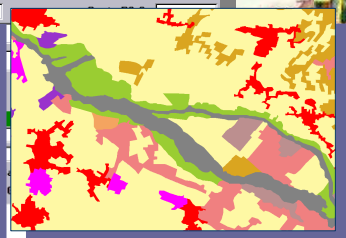
- Veneto Region gives the availability of their data through the Spatial Data Infrastructure according to the CAD (Digital Administration Code), and INSPIRE directive.
- Veneto Region distributes 450 information resources of which 330 are spatial data
- All these data are accessible because the IODL 2.0 license

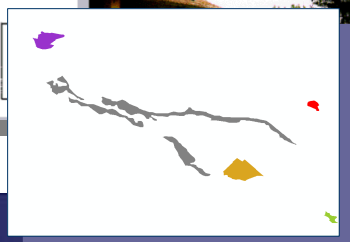
REGIONE DEL VENETO

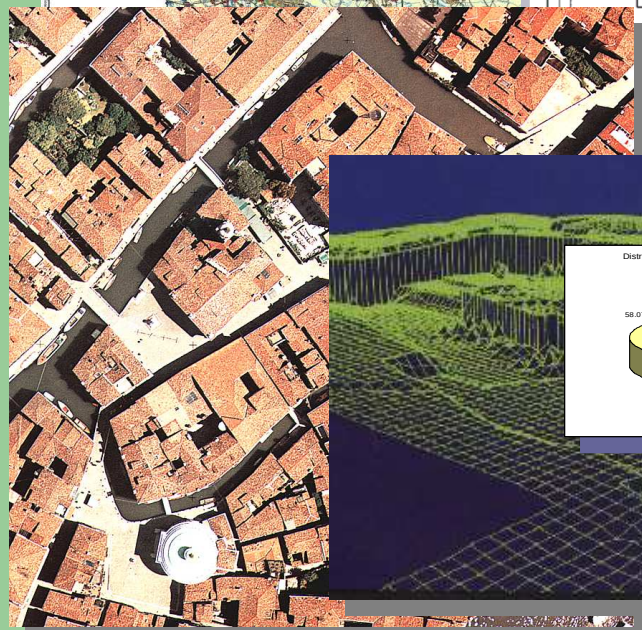


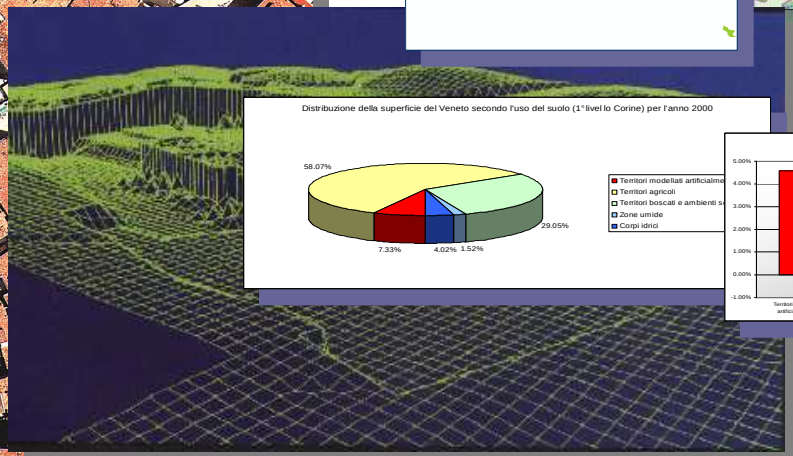


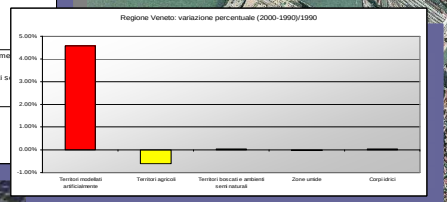


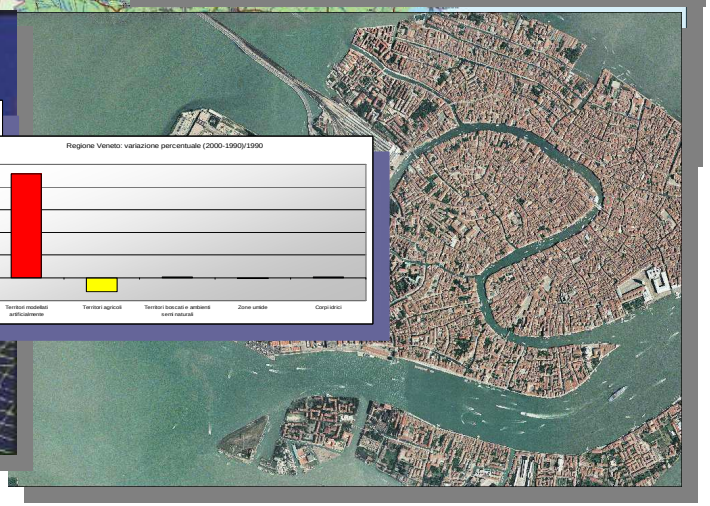




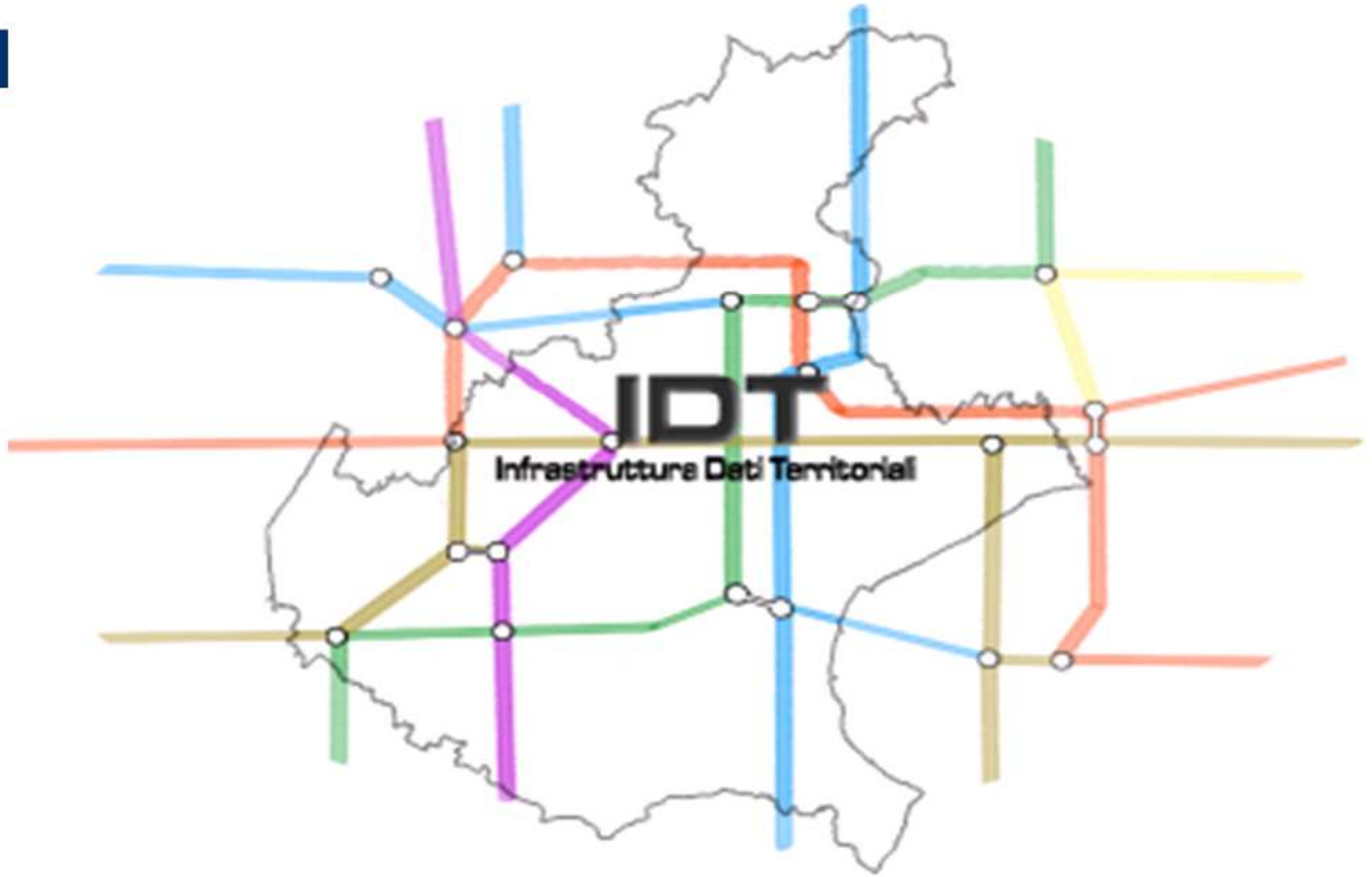


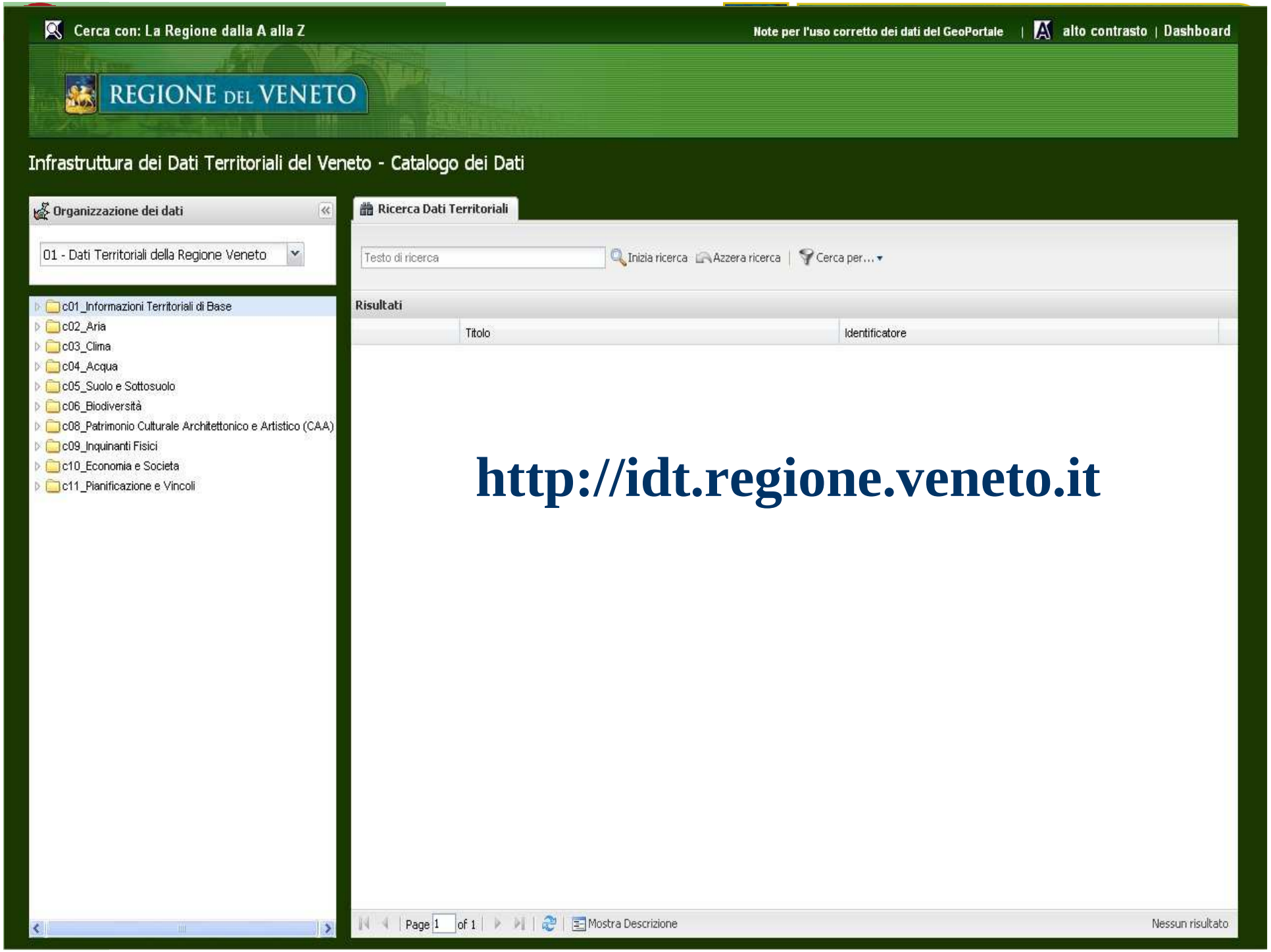






Infrastruttura Dati Territoriali




Cerca con: La Regione dalla A alla Z
Note per l'uso corretto dei dati del GeoPortale | alto contrasto | Dashboard
REGIONE DEL VENETO
Infrastruttura dei Dati Territoriali del Veneto - Catalogo dei Dati
Organizzazione dei dati
01 - Dati Territoriali della Regione Veneto
c01_Informazioni Territoriali di Base
c02_Aria
c03_Clima
c04_Acqua
c05_Suolo e Sottosuolo
c06_Biodiversità
c08_Patrimonio Culturale Architettonico e Artistico (CAA)
c09_Inquinanti Fisici
c10_Economia e Societa
c11_Pianificazione e Vincoli
Ricerca Dati Territoriali
Testo di ricerca
Inizia ricerca
Azzera ricerca
Cerca per...
Risultati
Titolo
Identificatore
http://idt.regione.veneto.it
Page 1 of 1
Mostra Descrizione
Nessun risultato

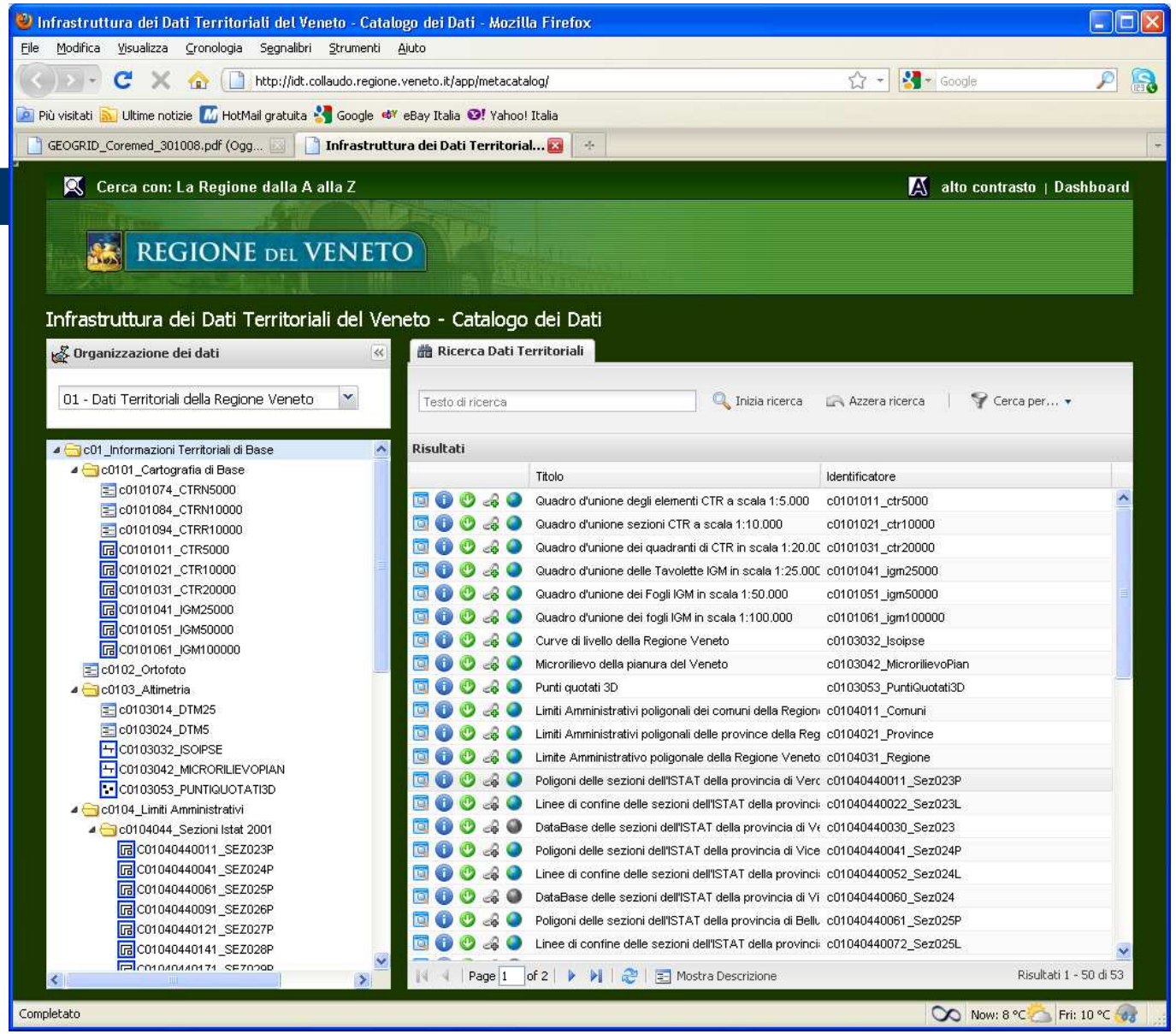
SDI: What was done

450 information resources are available so far, of which 330 are spatial type (related to areas of industry, including: land use planning and constraints, architectural and artistic heritage, soil and subsoil, biodiversity, geology, infrastructure, economy and society, etc. .).

450 information resources

Classe	DESCRIZIONE
c0101011_ctr5000	Quadro d'unione Elementi CTR 1:5000
c0101021_ctr10000	Quadro d'unione Sezioni CTR 1:10000
c0101031_ctr20000	Quadro d'unione Quadranti CTR 1:20000
c0101041_igm25000	Quadro d'unione Tavolette IGM 1:25000
c0101051_igm50000	Quadro d'unione Fogli IGM 1:50000
c0101061_igm100000	Quadro d'unione Fogli IGM 1:100000
c0101074_CTRN5000	Prodotto CTRN 5000
c0101084_CTRN10000	Prodotto CTRN 10000
c0101094_CTRR10000	Prodotto CTRR 10000
c0103010_DTM25	Modello digitale del terreno ris. 25 m
c0103014_DTM25	Prodotto DTM 25 m
c0103024_DTM5	Prodotto DTM 5 m
c0103032_Isoipse	Isoipse
c0103042_MicrorilievoPian	Microrilievo della pianura al metro
c0103053_PuntiQuotati3D	Punti quotati 3D
c0104011_Comuni	Limiti amministrativi comunali
c0104021_Province	Limiti amministrativi provinciali
c0104031_Regione	Limite Regionale
c01040440011_Sez023P	Sezioni censuarie ISTAT areali, provincia di Verona
c01040440022_Sez023L	Sezioni censuarie ISTAT lineari, provincia di Verona
c01040440030_Sez023	MDB Sezioni censuarie ISTAT areali, provincia di Verona
c01040440041_Sez024P	Sezioni censuarie ISTAT areali, provincia di Vicenza
c01040440052_Sez024L	Sezioni censuarie ISTAT lineari, provincia di Vicenza
c01040440060_Sez024	MDB Sezioni censuarie ISTAT areali, provincia di Vicenza
c01040440061_Sez025P	Sezioni censuarie ISTAT areali, provincia di Belluno
c01040440072_Sez025L	Sezioni censuarie ISTAT lineari, provincia di Belluno
c01040440080_Sez025	MDB Sezioni censuarie ISTAT areali, provincia di Belluno
c01040440091_Sez026P	Sezioni censuarie ISTAT areali, provincia di Treviso
c01040440102_Sez026L	Sezioni censuarie ISTAT lineari, provincia di Treviso
c01040440110_Sez026	MDB Sezioni censuarie ISTAT areali, provincia di Treviso
c01040440121_Sez027P	Sezioni censuarie ISTAT areali, provincia di Venezia
c01040440132_Sez027L	Sezioni censuarie ISTAT lineari, provincia di Venezia
c01040440140_Sez027	MDB Sezioni censuarie ISTAT areali, provincia di Venezia
c01040440141_Sez028P	Sezioni censuarie ISTAT areali, provincia di Padova
c01040440152_Sez028L	Sezioni censuarie ISTAT lineari, provincia di Padova
c01040440160_Sez028	MDB Sezioni censuarie ISTAT areali, provincia di Padova
c01040440171_Sez029P	Sezioni censuarie ISTAT areali, provincia di Rovigo
c01040440182_Sez029L	Sezioni censuarie ISTAT lineari, provincia di Rovigo
c01040440190_Sez029	MDB Sezioni censuarie ISTAT areali, provincia di Rovigo
c0104052_StatoL	Confine di stato
c0104061_ComunitaMontane	Comunità montane
c01070240012_ElementoStradale	Tratte del Grafo della viabilità stradale a livello regionale
c01070240023_GiunzioneStradale	Nodi del Grafo della viabilità stradale a livello regionale
c01070340013_IntFerroviar	Nodi del Grafo della viabilità ferroviaria a livello regionale
c01070340022_TrtFerroviar	Tratte del Grafo della viabilità ferroviaria a livello regionale
c0109010_CSLRegione	Prodotto CAPOSALDI Regionali
c0109013_CSLRegione	CAPOSALDI Regionali
c0109020_CSLIGM	Prodotto CAPOSALDI IGM
c0109023_CSLIGM	CAPOSALDI IGM
c0109030_VTRRegione	Prodotto VERTICI trigonometrici
c0109033_VTRRegione	VERTICI trigonometrici
c0110010_FotogrammiAerei	Prodotto Fotogrammi aerei
c0201010_ConcInquinanteNO2	Concentrazioni medie annuali e n. di superamenti dei limiti di legge del inquinante atmosferico NO2
c0201020_ConcInquinanteO3	Concentrazioni medie annuali e n. di superamenti dei limiti di legge del inquinante atmosferico O3

330 informative resources of spatial type



WMS

- Web Map Service (WMS)

SDI: the map services

50 WMS services are accessible and viewable with the possibility of direct use of cartographic Viewer for accessing data

Informative resources

http://idt.regione.veneto.it/WMS_c0101_CartografiaBase/wmservice.aspx
http://idt.regione.veneto.it/WMS_C0104_LimitiAmministrativi/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0103_Altimetria/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0107024_GrafoStrade/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0107034_GrafoFerrovie/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0107064_SFMR/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0401_Idrografia/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0409_QualitaServiziIdriciI/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0501_Litologia/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0502_Idrogeologia/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0503_Geomorfologia/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0504_Permeabilita/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0505_Geositi/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0506021_CopSuolo/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0508_RischiNaturali/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0605_EcosistemiForestali/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0604011_TipiHabitat/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0901_Inquinamentoluminoso/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0903_RadiazioniNonIoniz/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0904034_RumorStradeExtra/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0904054_RumorositaFerrov/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1013043_LocInfrastAero/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1016_Agricoltura/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1017041_AziendeRischioRLc/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1021081_DiscaricheLoc/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1101_Tutele/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1102_Vincoli/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1103_PianifTerrVigente/wmservice.aspx
http://idt.regione.veneto.it/WMS_c1103054_AreeRischioPAI/wmservice.aspx
http://idt.regione.veneto.it/WMS_PTRC91_Tav1/wmservice.aspx
http://idt.regione.veneto.it/WMS_PTRC91_Tav2/wmservice.aspx
http://idt.regione.veneto.it/WMS_PTRC91_Tav3/wmservice.aspx
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http://idt.regione.veneto.it/WMS_PTRC91_Tav9/wmservice.aspx
http://idt.regione.veneto.it/WMS_PTRC91_Tav10/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507021_CartaSuoliVeneto/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507031_CartaSuoliBSL/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507041_ClassiCapUsoSuoli/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507051_CarbonioOrganico/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507061_RischioPercolAzot/wmservice.aspx
http://idt.regione.veneto.it/WMS_c0507074_RischioErosione/wmservice.aspx
http://idt.collaudo.regione.veneto.it/WMS_c0801_CentriStorici/wmservice.aspx
http://idt.collaudo.regione.veneto.it/WMS_c0802011_VilleVenete/wmservice.aspx

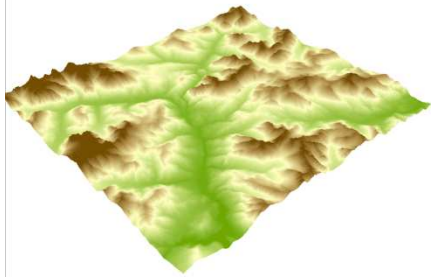
Cartographic DB

http://idt.regione.veneto.it/WMS_CTR_BN/wmservice.aspx
http://idt.regione.veneto.it/WMS_CTR_Colori/wmservice.aspx
http://idt.regione.veneto.it/WMS_Ortofoto2007/wmservice.aspx
http://idt.regione.veneto.it/WMS_Base50000Speditiva/wmservice.aspx
http://idt.regione.veneto.it/WMS_Base50000SpeditivaColore/wmservice.aspx

SDI: The Cartographic products

6 are the types of map products whose spread is already known:

- Regional Technical Numerical Map
- Raster Regional Technical Map
- Digital orthoimages
- Digital Terrain Models
- Aircraft frames
- Geodetic points (regional leveling stations, IGMI leveling stations, regional GPS vertex)



Licences

- CC-BY-3.0
- IODLv2.0

Use Licence of the data

- The Strategical Territorial Planning and Cartography Section , by the Director Decree No 16 of 23/07/2012 adopted the license "Italian Open Data License 2.0" (IODL 2.0 http://www.dati.gov.it/iodl/2.0/), for the geotopographic and territorial data of the Veneto Region.
- This License has been produced in order to provide a certificate tool to the local authorities that would facilitate the dissemination and reuse of data.

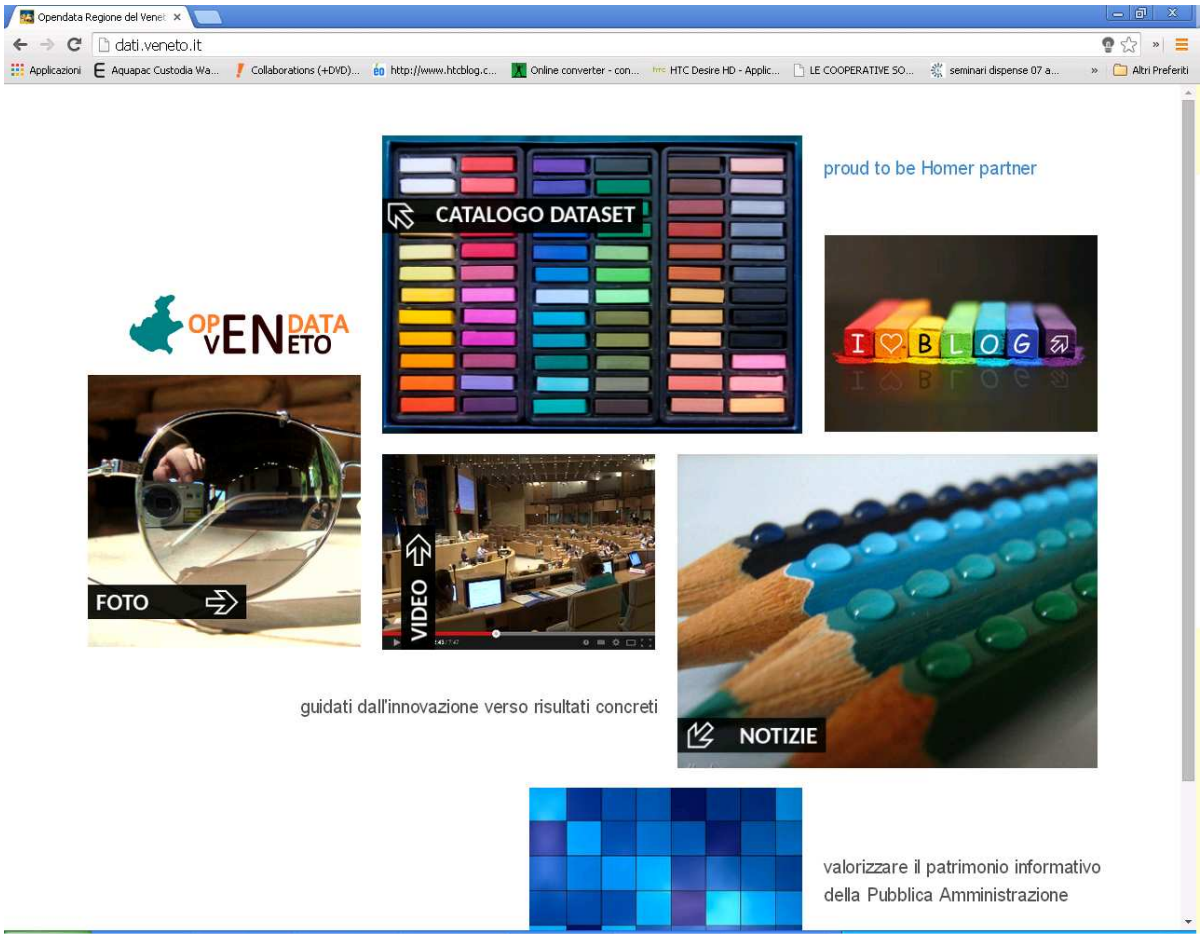
Licence Open Data

- All other data in the Regional Geoportal produced from other Regional Departments, Regional or Local Authorities are distributed according to the license contained in its "Metadata tab". If the card does not contain the metadata license to use the relevant data you need to contact the holder of the data through the information available in that metadata tab.

Open Data Veneto

- Veneto Region has initiated the topic of open data with the site Open Data Veneto and thus also making them available through the Open data channel (also winning the award the best Open Data Region 2012.

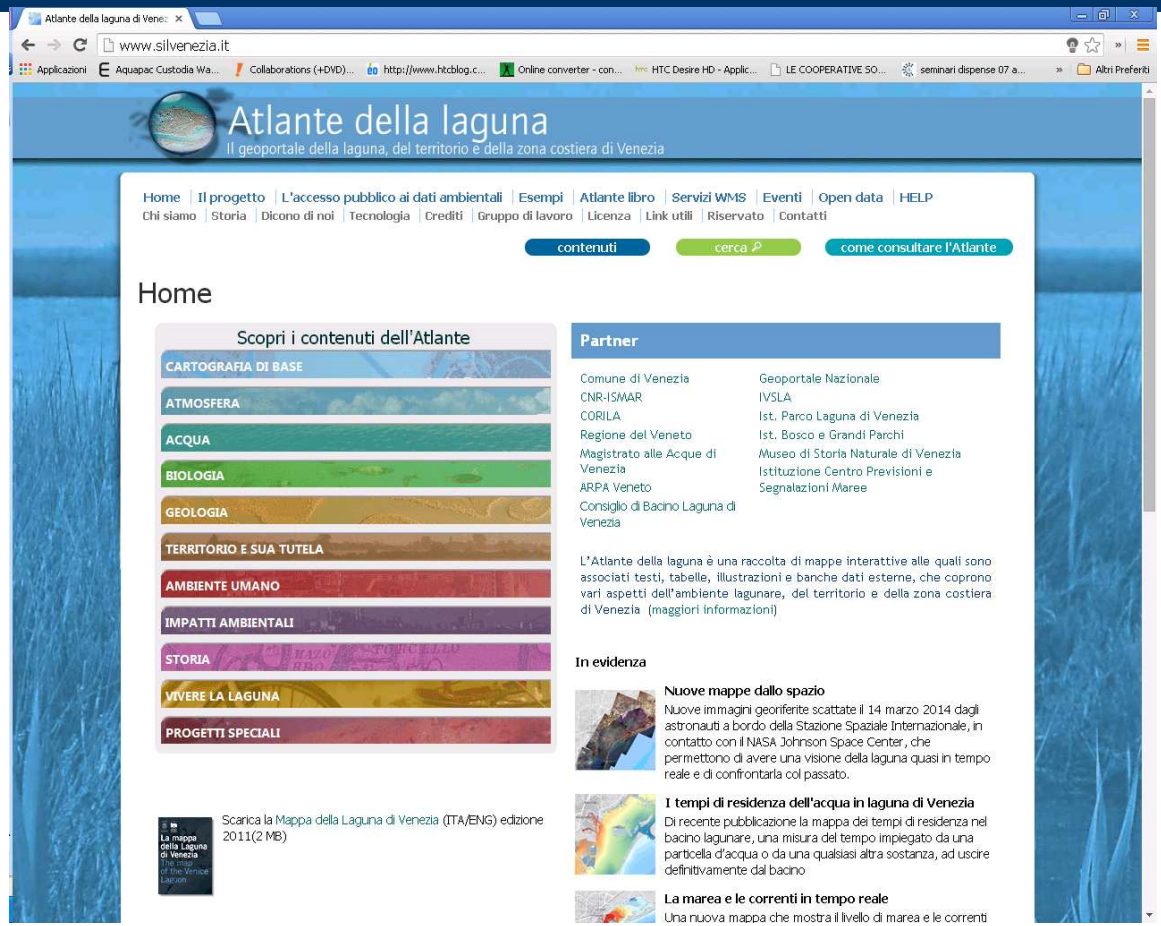
Dati.veneto.it the open data portal



Interoperability/Agreement

- Interoperability and availability are related to a series of agreements with public authorities and the Municipality of Venice by signing the agreement for the Atlas of the lagoon.
- Veneto Region is partner of the Atlas till the beginning.

The Lagoon Atlas



The Veneto Region Data

- Open Data
- Geoportal Data
- Habitat Maps

Interoperability and management of the open data

- **A recipe to share geographic data in Europe:**

“Energic-OD project” **(European Network for Redistributing Geospatial Information to user Communities – Open Data)**

Why this project?

- The world of the geo-information is extremely heterogeneous
- The different user and system requirements are too various to be supported by a single unique system or technology
- Wide number of different systems have been developed in order to support the delivery and use of geospatial data sets in different domains (INSPIRE, GMES/Copernicus, GBIF)

The traditional approach to interoperability

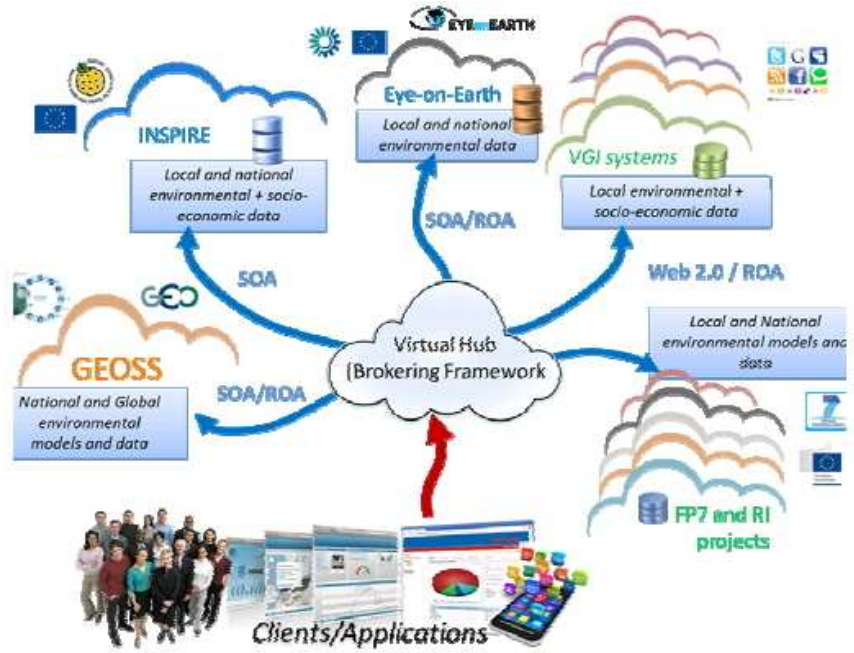
- Consists in the definition of a set of common interfaces, metadata and data models, - the federation model – to be adopted by all the partecipants
- This Federated approach requires:
  - That the governances of the subsystems agree on the federated model
  - The deployment of new components (mediators) in all the infrastructures to enable the participation in the federation

The geo-information situation

- In general there is not any organization that can be in charge of both imposing common specifications at global level, and enforcing their adoption. It is the typical unregulated situation of the Internet, where beside a set of simple and basic specifications (i.e. Internet and Web protocols) nothing can be globally agreed

Proposed service or solution

- Standardization
- Mediation through brokering



Interesting properties

- **Adds a broker between the clients and servers**
- **Clients no longer need to know which server they are using**
- **Can have many brokers, many servers**

Benefits compared to existing solutions

EXISTING SOLUTIONS

- Pesence of an overarching organization
- Big effort to define a standard
- The resoulting standard will be presumably complex
- It requires actions by the infrastructures managers (financial barriers, lack of expertise)

ENERGIC OD APPROACH

- No action required to either data users or data providers to address interoperability
- A wide range of infrastructures will be accessible through the Virtual Hubs

Clonclusions

- **ENERGIC-OD will adopt an innovative brokering approach based on the deployment of specific components (the brokers) which are in charge of all the interoperability issues.**