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ENERGIC OD

European NEtwork for Redistributing Geospatial Information to user Communities - Open Data

D4.2 - REPORT ON THE MOST
RELEVANT FIELDS OF APPLICATION
AND USER NEEDS, STRICTLY RELATED
TO INNOVATIVE APPLICATIONS,
SERVICES AND SEMANTIC CONTENT TO
BE IMPLEMENTED – ANNEX I

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¹ R = Report, P = Prototype, D = Demonstrator, O = Other

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Abbreviations and acronyms

Abbreviation / Acronym	Description
CA	Consortium Agreement
CIP	Competitiveness and Innovation Framework Programme
DoW	Description of Work
EB	Executive Board
EC	European Commission
EEA	European Environment Agency
END	Environmental Noise Directive
ENERGIC OD	European NETwork for Redistributing Geospatial Information to user Communities- Open Data
ETC-ACM	European Topic Centre for Air Pollution and Climate Change Mitigation
GA	General Assembly
GPS	Global Positioning System
GIS	Geographic Information System
GrAg	Grant Agreement
ICT	Information and Communications Technologies
JDBC	Java DataBase Connectivity
NEF	Negotiation Form Facility
NOISE	Noise Observation and Information Service for Europe
OGC	Open Geospatial Consortium
PC	Project Coordinator
PO	Project Officer
PSP	Policy Support Programme
QC	Quality Control
R&D	Research and Development
RDBMS	Relational database management system
RNE	Repartition of Noise Exposure
SDI	Spatial Data Infrastructure
SDK	Software Development Kit
SFS	Simple Features Specification
SQL	Structured Query Language
VH	Virtual Hubs
WFS	Web Feature Service
WMS	Web Map Service
WP	Work Package
WPL	Work Package Leader
WPS	Web Processing Service

Table 1. Abbreviations and Acronyms



EXECUTIVE SUMMARY

This annex collect the T4.3-T4.4 surveys completed by ENERGIC OD Partners.

A1 - ZARAGOZA COUNCIL HISTORIC CARTOGRAPHY VIEWER (UNIZAR)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://www.zaragoza.es/ciudad/risp/detalle_Risp?id=29	Planos de cartografía histórica	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0449/_index.djvu	Plano general. Dionisio Casañal. 1879	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0450/_index.djvu	Plano del término municipal. Dionisio Casañal. 1892	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0451/_index.djvu	Plano [1910-1920]	SPARQL	1.1	TBD	Georeferenced raster image file (to be	TBD	DjVu

					created)		
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0452/_index.djvu	Plano general parcelario del casco histórico. Dionisio Casañal. 1911	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0738/AMZ_4-2_0738_MAN000_GUIA.djvu	Plano del [casco histórico] de Zaragoza. Dionisio Casañal. 1911 (por manzanas y casas)	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0421/_index.djvu	Plano parcelario. Instituto Geográfico y Catastral. 1935	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0245/_index.djvu	Plano por sectores o barriadas. 1944	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0425/_index.djvu	Plano parcelario del término municipal. Instituto Geográfico y Catastral y Ayuntamiento de Zaragoza. 1962-1969	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/images_archivo/cartografia/AMZ_4-2_0814/_index.djvu	Plano topográfico o parcelario del término municipal. Galtier. 1971-1974	SPARQL	1.1	TBD	Georeferenced raster image file	TBD	DjVu

					(to be created)		
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0642/_index.djvu	Plano de la ciudad. Ayuntamiento de Zaragoza. 1982	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	TBD	DjVu
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_01_ORDENACION/_index.djvu ; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_02_CENTRO_HISTORICO/_index.djvu ; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_03_CALIFICACION/_index.djvu ; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_04_CLASIFICACION/_index.djvu	Plan General de Ordenación Urbana de 1986	SPARQL	1.1	TBD	Georeferenced raster image file (to be created)	DjVu	
http://idezar.zaragoza.es/wms/IDEZar_base/IDEZar_base	WMS Mapa Base Zaragoza	WMS	1.3.0	Capabilities XML	WMS	1.3.0	image/png, image/jpeg, image/gif
http://idezar.zaragoza.es/IDEZar_Base_Tiled/WMS_TileCache	WMS-C Mapa Base Zaragoza	WMS-C	1.1.1	Capabilities XML	WMS-C	1.1.1	image/png, image/jpeg, image/gif
http://idezar.zaragoza.es/IDEZar_Base_WMTS/TileCache	WMTS Mapa Base Zaragoza	WMTS	1.1.0	Capabilities XML	WMTS	1.1.0	image/png, image/jpeg, image/gif

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://www.zaragoza.es/ciudad/risp/detalle_Risp?id=29	Planos de cartografía histórica	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0449/_index.djvu	Plano general. Dionisio Casañal. 1879	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0450/_index.djvu	Plano del término municipal. Dionisio Casañal. 1892	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0451/_index.djvu	Plano [1910-1920]	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0452/_index.djvu	Plano general parcelario del casco histórico. Dionisio Casañal. 1911	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0738/AMZ_4-2_0738_MAN000_GUIA.djvu	Plano del [casco histórico] de Zaragoza. Dionisio Casañal. 1911 (por manzanas y casas)	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0421/_index.djvu	Plano parcelario. Instituto Geográfico y Catastral. 1935	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0245/_index.djvu	Plano por sectores o barriadas. 1944	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0425/_index.djvu	Plano parcelario del término municipal. Instituto Geográfico y Catastral y Ayuntamiento de Zaragoza. 1962-1969	change of format and georeferencing (will be done off-line in the development phase)	Client-side API	FTP/HTTP to raster data file (JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0425/_index.djvu	Plano topográfico o	change of format and	Client-side	FTP/HTTP to raster data file

vo/cartografia/AMZ_4-2_0814/_index.djvu	parcelario del término municipal. Galtier. 1971-1974	georeferencing (will be done off-line in the development phase)	API	(JPEG 2000 or GeoTIFF)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0642/_index.djvu	Plano de la ciudad. Ayuntamiento de Zaragoza. 1982			
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_01_ORDENACION/_index.djvu; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_02_CENTRO_HISTORICO/_index.djvu; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_03_CALIFICACION/_index.djvu; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_04_CLASIFICACION/_index.djvu	Plan General de Ordenación Urbana de 1986			
http://idezar.zaragoza.es/wms/IDEZar_base/IDEZar_base	WMS Mapa Base Zaragoza			
http://idezar.zaragoza.es/IDEZar_Base_Tiled/WMSTileCache	WMS-C Mapa Base Zaragoza			
http://idezar.zaragoza.es/IDEZar_Base_WMSTileCache	WMTS Mapa Base Zaragoza			

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://www.zaragoza.es/ciudad/risp/detalle_Risp?id=29	Planos de cartografía histórica	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0449/_index.djvu	Plano general. Dionisio Casañal. 1879	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0450/_index.djvu	Plano del término municipal. Dionisio Casañal. 1892	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0451/_index.djvu	Plano [1910-1920]	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0452/_index.djvu	Plano general parcelario del casco histórico. Dionisio Casañal. 1911	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0738/AMZ_4-2_0738_MAN000_GUI A.djvu	Plano del [casco histórico] de Zaragoza. Dionisio Casañal. 1911 (por	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)

	manzanas y casas)							
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0421/_index.djvu	Plano parcelario. Instituto Geográfico y Catastral. 1935	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0245/_index.djvu	Plano por sectores o barriadas. 1944	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0425/_index.djvu	Plano parcelario del término municipal. Instituto Geográfico y Catastral y Ayuntamiento de Zaragoza. 1962-1969	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0814/_index.djvu	Plano topográfico o parcelario del término municipal. Galtier. 1971-1974	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_0642/_index.djvu	Plano de la ciudad. Ayuntamiento de Zaragoza. 1982	*	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/risp/	Zaragoza (SPAIN)	Yes (to be created)
http://www.zaragoza.es/	Plan	*	Raster	Fully	NO restriction	http://www.zaragoza.es/	Zaragoza	Yes (to be

imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_01_ORDENACION/_index.djvu; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_02_CENTRO_HISTORICO/_index.djvu ; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_03_CALIFICACION/_index.djvu ; http://www.zaragoza.es/imagenes_archivo/cartografia/AMZ_4-2_PGOU1986/AMZ_4-2_PGOU1986_04_CLASIFICACION/_index.djvu	General de Ordenación Urbana de 1986			accessible		za.es/ciudad/risp/	(SPAIN)	created)
http://idezar.zaragoza.es/wms/IDEZar_base/IDEZar_base	WMS Mapa Base Zaragoza	*****	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/idezar/	Zaragoza (SPAIN)	Yes
http://idezar.zaragoza.es/IDEZar_Base_Tiled/WMS/TileCache	WMS-C Mapa Base Zaragoza	*****	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/idezar/	Zaragoza (SPAIN)	Yes
http://idezar.zaragoza.es/IDEZar_Base_WMSTiles/TileCache	WMTS Mapa Base Zaragoza	*****	Raster	Fully accessible	NO restriction	http://www.zaragoza.es/ciudad/idezar/	Zaragoza (SPAIN)	Yes

VH processing				
Data Processing	Input	Output	API availability	Info link

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
Y	Make use of existing service	Y	OpenStreetMap		Yes

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>Urban development and transformation</p>			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>				
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>				

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/inNOvation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more key word related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging	NO		
Agricultural Sustainability and Productivity	NO		
Smart Cities and Communities	YES	Raise awareness about the changes and development of Zaragoza from 1879 to the present.	Planning (retrospective)
Water and Raw Materials	NO		

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;	NO		
Secure, clean and efficient energy;	NO		
Smart, green and integrated transport;	NO		
Climate action, environment, resource efficiency and raw materials;	NO		
Europe in a changing world - inclusive, innovative and reflective societies;	NO		
Secure societies - protecting freedom and security of Europe and its citizens.	NO		

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture	NO		
Biodiversity	NO		
Climate	NO		
Disasters	NO		
Ecosystems	NO		
Energy	NO		
Health	NO		
Water	NO		
Weather	NO		

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.	Yes	Valuing of preserved documents

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community			
Volunteered GI communities			
Open data network			
SMEs			
PAs			
Citizen (for example, elderly, youngsters, students, tourists)			
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			

A2 - EYE2EYE (AED-SICAD)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://www.geoportal-wildau.de/isk/wild_baumkatas-ter	Baumkataster - Gemeinde Wildau	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-amt-spreenhagen.de/isk/baeume	Baumkataster - Amt Spreenhagen	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-beelitz.de/isk/beel_baumkatas-ter	Baumkataster - Stadte Beelitz	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-gartz.de/isk/gartz_baeume	Baumkataster - Amt Gartz	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-klosterlehnin.de/isk/lehn_bau- mkataster	Baumkataster - Kloster Lehnin	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-trebbin.de/isk/treb_baumkatas-ter	Baumkataster - Stadt Trebbin	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geoportal-schoeneiche-bei-berlin.de/isk/baumkataster	Baumkataster - Gemeinde Schöneiche bei Berlin	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	

http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Biotopkataster/MapServer/WMServer?request=GetCapabilities&Version=1.3.0&SERVICE=WMS	Biotopkataster Brandenburg WMS	WMS		ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://geoportal.brandenburg.de/gs-json/xml?fileid=D3543F17-AF92-45AD-8655-DFDEDB65348A	Strukturkarte von Fließgewässern des Landes Brandenburg	Shape					
http://geoportal.brandenburg.de/gs-json/xml?fileid=A061BB02-70AC-4422-BB58-4A49F585D7F2	Kartierung von Biotopen, geschützten Biotopen (§ 30 BNatSchG und § 18 BbgNatSchAG) und FFH-Lebensräumen im Land Brandenburg	Shape					
http://www.geo.brandenburg.de/ows/bg_berechtigungen.cgi	Braunkohle Übersichtskarte zu Bergbaurechtigungen	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geo.brandenburg.de/ows/bg_betriebsstaetten.cgi	Braunkohle Betriebsstättenübersicht Bergbau Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.brandenburg-forst.de:8080/geoserver/fgk_raster/ows?REQUEST=GetCapabilities&SERVICE=WMS	Forstgrundkarte des Landes Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.o-p-r.info/ows1/jbk	Jagdbezirkskataster im Landkreis OPR	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geo.brandenburg.de/ows/bo_ertrag_lw.cgi	Landwirtschaftliches Ertragspotential Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://www.geo.brandenburg.de/ows/bo_retention.cgi?	Retentionsflächen Überschwemmung Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	

http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Schutzgebiete/MapServer/WMSServer?request=GetCapabilities&Version=1.1.1&SERVICE=WMS	Schutzgebiete im Land Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://217.6.137.235/cgi-bin/mapserv?map=/usr/lib/cgi-bin/Verfahren.map&REQUEST=GetCapabilities&SERVICE=WMS	Bodenordnungsverfahren des Landes Brandenburg	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gruene_wege_wander	20 grüne Hauptwege - Digitale Wanderkarte	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k01_01boges2010	Bodengesellschaften 2010	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/UA_luftaus22_10_03	Bodennahes Windfeld und Luftaustausch	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k_kis	Berlin Kompensationsflächenkataster	WMS	1.3	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_lplan	Berlin Landschaftsplan	WFS	2	ISO 19115, INSPIRE 2.0, BE/BB	WMS	1.3	

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://www.geoportal-wildau.de/isk/wild_baumkataster	Baumkataster - Gemeinde Wildau	NO	Client-side API	WMS
http://www.geoportal-amt-spreenhagen.de/isk/baeume	Baumkataster - Amt Spreenhagen	NO	Client-side API	WMS
http://www.geoportal-beelitz.de/isk/beel_baumkataster	Baumkataster - Stadte Beelitz	NO	Client-side API	WMS
http://www.geoportal-gartz.de/isk/gartz_baeume	Baumkataster - Amt Gartz	NO	Client-side	WMS

			API	
http://www.geoportal-klosterlehnin.de/isk/lehn_baumkataster	Baumkataster - Kloster Lehnin	NO	Client-side API	WMS
http://www.geoportal-trebbin.de/isk/treb_baumkataster	Baumkataster - Stadt Trebbin	NO	Client-side API	WMS
http://www.geoportal-schoeneiche-bei-berlin.de/isk/baumkataster	Baumkataster - Gemeinde Schöneiche bei Berlin	NO	Client-side API	WMS
http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Biotopkataster/MapServer/WMSServer?request=GetCapabilities&Version=1.3.0&SERVICE=WMS	Biotopkataster Brandenburg WMS	NO	Server-Side	Shape
http://geoportal.brandenburg.de/gs-json/xml?fileid=D3543F17-AF92-45AD-8655-DFDEDB65348A	Struktur Güte von Fließgewässern des Landes Brandenburg			
http://geoportal.brandenburg.de/gs-json/xml?fileid=A061BB02-70AC-4422-BB58-4A49F585D7F2	Kartierung von Biotopen, geschützten Biotopen (§ 30 BNatSchG und § 18 BbgNatSchAG) und FFH-Lebensräumen im Land Brandenburg			
http://www.geo.brandenburg.de/ows/bg_berechtigungen.cgi	Braunkohle Übersichtskarte zu Bergbaurechtigungen	NO	Client-side API	WMS
http://www.geo.brandenburg.de/ows/bg_betriebsstaetten.cgi	Braunkohle Betriebsstättenübersicht Bergbau Brandenburg	NO	Client-side API	WMS
http://www.brandenburg-forst.de:8080/geoserver/fgk_raster/ows?REQUEST=GetCapabilities&SERVICE=WMS	Forstgrundkarte des Landes Brandenburg	NO	Client-side API	WMS
http://www.o-p-r.info/ows1/jbk	Jagdbezirkskataster im Landkreis OPR	NO	Client-side API	WMS
http://www.geo.brandenburg.de/ows/bo_ertrag_lw.cgi	Landwirtschaftliches Ertragspotential Brandenburg	NO	Client-side API	WMS
http://www.geo.brandenburg.de/ows/bo_retention.cgi?	Retentionsflächen Überschwemmung Brandenburg	NO	Client-side API	WMS
http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Schutzgebiete/MapServer/WMSServer?request=GetCapabilities&Version=1.1.1&SERVICE=WMS	Schutzgebiete im Land Brandenburg	NO	Client-side API	WMS
http://217.6.137.235/cgi-bin/mapserv?map=/usr/lib/cgi-	Bodenordnungsverfahren des	NO	Client-side	WMS

bin/Verfahren.map&REQUEST=GetCapabilities&SERVICE=WMS	Landes Brandenburg		API	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gruene_wege_wander	20 grüne Hauptwege - Digitale Wanderkarte	NO	Client-side API	WMS
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k01_01boges2010	Bodengesellschaften 2010	NO	Client-side API	WMS
http://fbinter.stadt-berlin.de/fb/wms/senstadt/UA_luftaus22_10_03	Bodennahes Windfeld und Luftaustausch	NO	Client-side API	WMS
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k_kis	Berlin Kompensationsflächenkataster	NO	Client-side API	WMS
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_lplan	Berlin Landschaftsplan	NO	Client-side API	WFS

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://www.geoportal-wildau.de/isk/wild_baumkataster	Baumkataster - Gemeinde Wildau	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geoportal-amt-spreenhagen.de/isk/baume	Baumkataster - Amt Spreenhagen	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geoportal-beelitz.de/isk/beel_baumkataster	Baumkataster - Städte Beelitz	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geoportal-gartz.de/isk/gartz_baume	Baumkataster - Amt Gartz	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geoportal-klosterlehnin.de/isk/lehn_baumkataster	Baumkataster - Kloster Lehnin	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES

http://www.geoportal-trebbin.de/isk/treb_baumkataster	Baumkataster - Stadt Trebbin	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geoportal-schoeneiche-bei-berlin.de/isk/baumkataster	Baumkataster - Gemeinde Schöneiche bei Berlin	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Biotopkataster/MapServer/WMServer?request=GetCapabilities&Version=1.3.0&SERVICE=WMS	Biotopkataster Brandenburg WMS	****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://geoportal.brandenburg.de/gs-json/xml?fileid=D3543F17-AF92-45AD-8655-DFDEDB65348A	Strukturgüte von Fließgewässern des Landes Brandenburg							
http://geoportal.brandenburg.de/gs-json/xml?fileid=A061BB02-70AC-4422-BB58-4A49F585D7F2	Kartierung von Biotopen, geschützten Biotopen (§ 30 BNatSchG und § 18 BbgNatSchAG) und FFH-Lebensräumen im Land Brandenburg							
http://www.geo.brandenburg.de/ows/bg_berechtigungen.cgi	Braunkohle Übersichtskarte zu Bergbaurechtigungen	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geo.brandenburg.de/ows/bg_betriebsstaetten.cgi	Braunkohle Betriebsstättenübersicht Bergbau Brandenburg	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.brandenburg.de	Forstgrundkarte	*****	Vektor	Fully	NO	http://geoportal.brandenburg.de	Brandenburg	YES

- forst.de:8080/geoserver/fgk_raster/ows?REQUEST=GetCapabilities&SERVICE=WMS	des Landes Brandenburg			accessible		andenburg.de	g (GERMANY)	
http://www.o-p-r.info/ows1/jbk	Jagdbezirkskataster im Landkreis OPR	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geo.brandenburg.de/ows/bo_ertrag_lw.cgi	Landwirtschaftliches Ertragspotential Brandenburg	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://www.geo.brandenburg.de/ows/bo_retention.cgi?	Retentionsflächen Überschwemmung Brandenburg	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://luaplms01.brandenburg.de/ArcGIS/services/Natur/OSIRIS_Schutzgebiete/MapServer/WMServer?request=GetCapabilities&Version=1.1.1&SERVICE=WMS	Schutzgebiete im Land Brandenburg	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://217.6.137.235/cgi-bin/mapserv?map=/usr/lib/cgi-bin/Verfahren.map&REQUEST=GetCapabilities&SERVICE=WMS	Bodenordnungsverfahren des Landes Brandenburg	*****	Vektor	Fully accessible	NO	http://geoportal.brandenburg.de	Brandenburg (GERMANY)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gruene_wege_wander	20 grüne Hauptwege - Digitale Wanderkarte	*****	Vektor	Fully accessible	NO	http://stadtentwicklung.berlin.de	Berlin	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k01_01boges2010	Bodengesellschaften 2010	*****	Vektor	Fully accessible	NO	http://stadtentwicklung.berlin.de	Berlin	YES

http://fbinter.stadt-berlin.de/fb/wms/senstadt/UA_luftaus22_10_03	Bodennahes Windfeld und Luftaustausch	*****	Vektor	Fully accessible	NO	http://stadtentwicklung.berlin.de	Berlin	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k_kis	Berlin Kompensationsflächenkataster	*****	Vektor	Fully accessible	NO	http://stadtentwicklung.berlin.de	Berlin	YES
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_lplan	Berlin Landschaftsplan	*****	Vektor	Fully accessible	NO	http://stadtentwicklung.berlin.de	Berlin	YES

VH processing				
Data Processing	Input	Output	API availability	Info link

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?• Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention)</p> <ul style="list-style-type: none"> • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 				
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>				
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>				

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity			
Smart Cities and Communities			
Water and Raw Materials			

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;			
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;			
Europe in a changing world - inclusive, innovative and reflective societies;			
Secure societies - protecting freedom and security of Europe and its citizens.			

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture			
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy			
Health			
Water			
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.		

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community			
Volunteered GI communities			
Open data network			
SMEs			
PAs			
Citizen (for example, elderly, youngsters, students, tourists)			
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			

A3 - COASTLINE EVOLUTION MONITORING (BRGM)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://mapsref.brgm.fr/WMS/mapserv?map=/carto/RefCom/ (under construction)	Coastline data	WFS	1.3	INSPIRE	WFS	1.3	-

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://mapsref.brgm.fr/WMS/mapserv?map=/carto/RefCom/ (under construction)	Coastline data	NO	Client-side API	geoJSON

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://mapsref.brgm.fr/WMS/mapserv?map=/carto/RefCom/ (under construction)	Coastline data	*****	Vector	Fully accessible	NO	http://www.cartografia.regione.lombardia.it	4 régions Aquitaine, Languedoc-Roussillon, Corse, PACA (FRANCE)	YES

VH processing				
Data Processing	Input	Output	API availability	Info link
Conversion	WFS	geoJSON	full	

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
Yes	production and publication	N	users according to VH and Catalogue		full

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>Coastline public data access, and crowdsourcing Sensor Observation Service</p>			
	<p>EU Policy (Eu Directives, ..)</p>	<p>National Policy</p>	<p>International Policy</p>	<p>Regional Policy</p>
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	<p>INSPIRE, Opendata directives</p>	<p>Public environmental data diffusion</p>		
	<p>Answer</p>			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	<p>The data are isolated, rarely diffused. The aim is to structure, diffuse and enhance it with crowdsourcing.</p>			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity			
Smart Cities and Communities			
Water and Raw Materials			

B. Societal challenges, as intended by EU and Horizon2020, will bring together resources and knowledge across different fields, technologies and

disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;			
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;			
Europe in a changing world - inclusive, innovative and reflective societies;			
Secure societies - protecting freedom and security of Europe and its citizens.			

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture			
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy			
Health			
Water	YES	The coastline application will inform the public about the reality of the coastline, and will inform the authorities about the feeling of people (by crowdsourcing)	
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.		

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community			
Volunteered GI communities			
Open data network			
SMEs			
PAs			
Citizen (for example, elderly, youngsters, students, tourists)			
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			

A4 - ONOMAP! (CNRS)

The OnoM@p system

1 Background context

1.1 Noise societal and environmental issues

The Green Paper on Future Noise Policy (COM(96) 540) published by the Commission of the European Communities reports that between 17 and 22% (close to 80 million people) of the Union's population are exposed to continuous daytime outdoor noise levels caused by transport above what are generally considered to be acceptable - more than 65 dB(A). An additional 170 million citizens are exposed to noise levels between 55 and 65 dB(A), which is the level at which people become seriously annoyed during the daytime [1]. According to the same report, road transport noise stands for the dominant noise source and accounts for 90% of the population exposed to noise levels higher than 65 dB(A).

The Environmental Protection UK³ organization underlines that noise can cause annoyance and fatigue, interfere with communication and sleep, reduce efficiency and damage hearing. The World Health Organisation recommends a guideline level of 30 dB(A) L_{Aeq} for undisturbed sleep, and a daytime level for outdoor sound levels of 50 dB(A) to prevent people from becoming "moderately annoyed".

Noise impacts on biodiversity stand obviously for an important environmental issue. Indeed, anthropogenic activities - especially motorized transportation modes - result in pervasive noise that implies a lessening of both the richness and abundance of the animal species [2], an alteration of the communication which can threaten the reproduction and predation [3]. However, the lack of a standardized method for assessing traffic noise impact in natural environment must explain the absence of action plans for the purpose of conserving wildlife habitat [4].

1.2 Noise regulation

At the French level, the law n°92-1444 from 31 december 1992 regarding fight against noise codifies at once the prevention, the reduction and the limitation of both noise emission and propagation susceptible to harming resident health [5]. In terms of neighbourhood noise, the decree n°2006-1099 from 31 august 2006 relating to the fight against neighbourhood noise sets acoustic criteria at once for sports, cultural and professional activities [6]. Additionally, the decree

³The Environmental Protection UK is a UK environmental Non-Governmental Organization (NGO). Website: <http://www.environmental-protection.org.uk/>

from 30 June 1999 relating to the acoustic characteristics of residential buildings regulates the acoustic insulation for all new buildings [7]. Regarding land transports, any new project or development plan concerning road or rail infrastructure must take into account noise according to the article L571-9 of the Environment Code [8].

At the European level, the Environmental Noise Directive (END) 2002/49/CE relating to the assessment and management of environmental noise aims at defining a common approach planned to avoid, prevent or reduce the harmful effects, including annoyance, due to the exposure to environmental noise [9].

The END relies on four main axis:

- 1) monitoring environmental noise;
- 2) informing and consulting the population;
- 3) addressing local noise issues;
- 4) developing a long-term european strategy.

The Directive defines environmental noise as the "unwanted or harmful outdoor sound created by human activities, including noise emitted by means of transport, road traffic, rail traffic, air traffic, and from sites of industrial activity" and requires - in the context of noise monitoring - the drawing up of strategic noise maps for cities of more than 100 000 inhabitants. In both urban and suburban areas, methods to contend with noise pollution consist in various actions (e.g. road resurfacing, acoustic screens insertion, speed limits reduction, traffic deviation, new public transportation policies setting up, etc.). The action plans can be evaluated upstream their implementation through noise propagation simulations. Besides, the European Environment Agency (EEA) and the European Topic Centre for Air Pollution and Climate Change Mitigation (ETC-ACM) handle the maintenance of the Noise Observation and Information Service for Europe (NOISE⁴) on behalf of the European Commission. This web-service collects data related to strategic noise maps.

1.3 Noise control

The assessment of environmental noise can be undertaken in two ways, namely through both **numerical simulations** and **measurements**.

Numerical simulations at the environmental scale rest on engineering computational models that require huge information concerning the investigated area (e.g. the building, the topography, the nature of soils and of the road pavements, the yearly probabilities of occurrence of meteorological conditions, etc.) and noise sources (e.g. road, railway and air traffics, noisy industries and activities, etc.). Unfortunately, some of this information is sometimes missing or incomplete. In addition, high computational capabilities are yet required for the calculation of a noise map at an agglomeration scale. Besides, simulation-based forecast enables the estimate of mean acoustic indicators and leads to "frozen" noise maps that badly reflect the real sound environment (e.g. cultural or festive activities, road works or plannings, etc.).

⁴NOISE website: <http://noise.eionet.europa.eu/>.

Measurements enable to capture the time variations of environmental noise levels and lead consequently to complementary information with simulations results. The spatial granularity is relatively poor due to financial reasons (little bit of sensors can be deployed because of their cost), but a few works aim at capitalizing on noise monitoring networks by assimilating the collected experimental data for correcting simulated noise maps [10]. Noise monitoring is already operational in a few French⁵ and European⁶ agglomerations through urban noise observatories [11]. Such monitoring setups must achieve several targets as completing noise mapping approaches, informing citizens about their noise exposure and sharing knowledge concerning environmental noise [12].

A finer spatial granularity can be obtained experimentally through **mobile measurements** [13]. Mobile measurements involve two main devices: an acoustic sensor (a sonometer generally) and a global positioning system (GPS). The synchronization of both devices enables to get geo-localized acoustic data (typically global and third octave bands A-weighted sound levels $L_{Aeq,1s}$). The representativeness of the collected data is ensured by performing several measurements at given locations and at various moments of the day in order to end up with a satisfying temporal and spatial representativeness. Such measurements can be accomplished by city dwellers themselves by using their smartphones which embed both a microphone and GPS. This is the basis of the NoiseTube⁷ [14] and SoundCity⁸ applications that both aim at building a huge noise database thanks to voluntary citizens contribution. Both of them invites the contributor to pass information on the emerging noise sources⁹ during the measurement additionally.

The development of the **OnoM@p system** rests on citizens voluntary collaboration for a massive acquisition of noise data in urban environment. With the *NoiseCapture* application installed on their smartphone, each individual can estimate its own noise exposure and contribute to a community noise data collection. The output database is based on Open Geospatial Consortium (OGC) standards and is completely managed by open source tools. Such an initiative is thus valuable at once for the citizen (*i.e.* at the individual scale), for the collectivities and for the environmental science community (*i.e.* at the collective scale). For the citizens, this application offers them the possibility of estimating their personal noise exposure and, by uploading their measurements, of contributing to a participative noise maps. For us, scientists, this project stands for an opportunity to gather a large amount of noise data over a wide area and to study the feasibility of improving the representativeness of simulation-based noise maps by integrating crowdsourced data information. Such a database can be also useful for many other purposes, in particular concerning the data qualification. Such information is also interesting for local collectivities and main agglomerations that can lean upon this collective effort to better inform the population of its noise exposure.

2 General overview

The OnoM@p (*Open noise Map*) system stands for a noise data architecture based on geo-localized sound levels measurements ensured by voluntary

⁵Dunkerque and Calais agglomeration community, Lille Métropole agglomeration community, Ile-de-France region, Greater Lyons urban community, Saint-Etienne Métropole, Grenoble agglomeration community, Nice Côte d'Azur agglomeration community, Aix-en-Provence agglomeration community.

⁶Dublin (IRL), Rotterdam (NL), Oss (NL), Gdansk (PL), Brussels (B), Turin (I), Madrid (E), Barcelona (E).

⁷NoiseTube Website: <http://www.noisetube.net/>.

⁸SoundCity Website: <http://www.inria.fr/centre/paris-rocquencourt/actualites/lancement-de-l-appli-soundcity>.

⁹Such information can be useful for research studies concerning the recognition of noise sources according to their sound characteristics.

individual via a dedicated smartphone application named *NoiseCapture* (See Section 2.2). This application enables the user on one hand to estimate its noise exposure and on the other to upload its personal measurements to the CNRS database (See Section 2.3). Then more advanced noise-related indicators as statistical and spatial indicators are evaluated (See Section 4.8) by combining the collected noise data with OpenStreetMap and statistical data through the Energic-OD Virtual Hub (See Section 2.5). Finally, the gathered data are published through Web Services (See Section 2.6). Figure 1 summarizes the conceptual model behind the OnoM@p system.

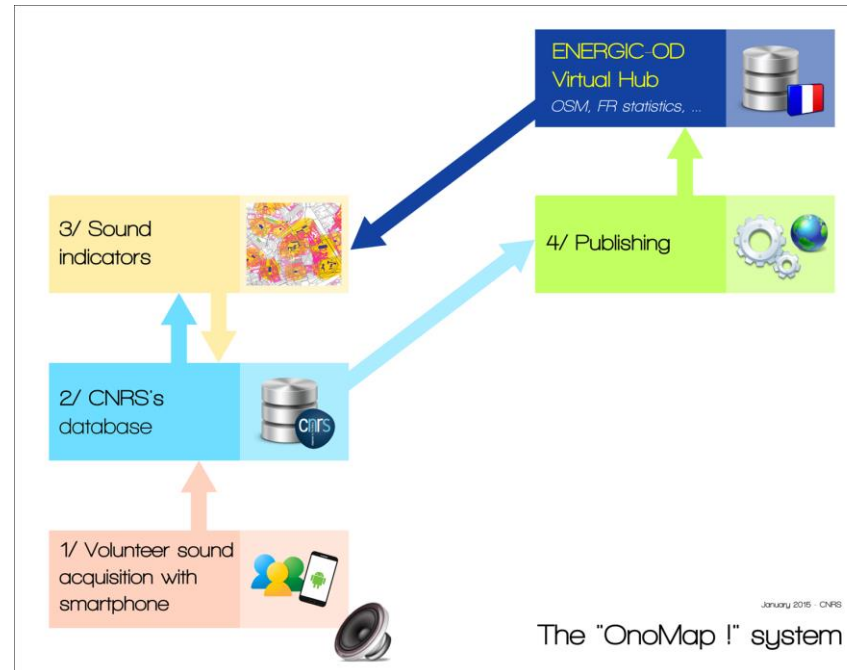


Figure 1: Conceptual model of the OnoM@p system.

2.1 System components

OnoM@p can be represented as a five-component system such as depicted in Figure 1. The system relies on several tools and frameworks indicated in Figure 2 (See Section 3.8), as well as standards and programming languages detailed in Figure 3 (See Section 1).

2.1.1 Tools and frameworks

The *NoiseCapture* application is implemented through the Android Software Development Kit (SDK). The sound signal processing is developed entirely in the

Java programming language.

The data uploaded by the volunteers (from NoiseCapture) feed the CNRS database which is managed by the open source project H2GIS10. H2GIS is a spatial extension of the H2 database that completely complies with the OGC (Open Geospatial Consortium) for SQL (Structured Query Language) standards and built on the JDBC (Java DataBase Connectivity) compliant H2 database. H2GIS is harnessed for both building the noise measurements database directly issued from the users contributions, and computing additional noise indicators by compiling the noise data with statistical and geographical data (See Section 48).

The database is interfaced with the open source software Geoserver¹¹ which is used to share and render thematic maps. The resulting data collected in the CNRS database are made available as Web Map Service (WMS) layers. WMS layers are displayed in a custom map browser thanks to Leaflet¹².

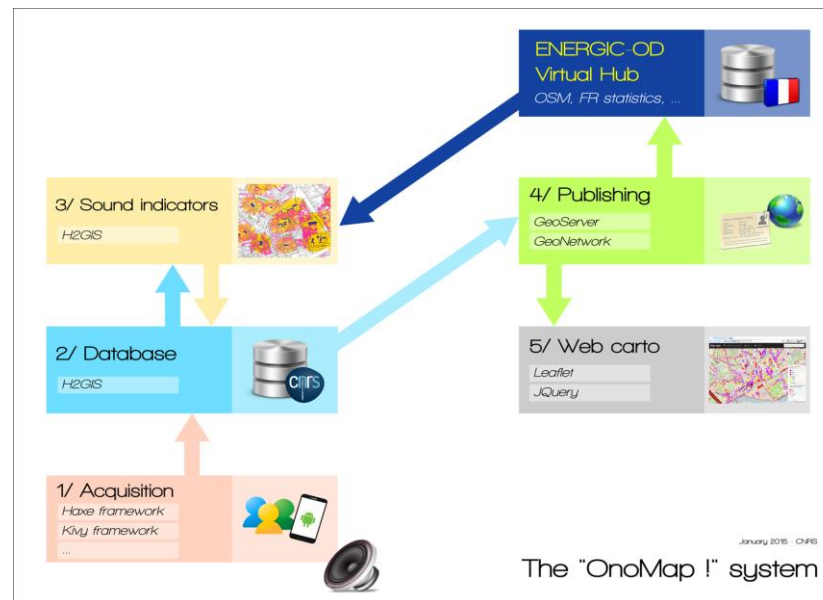


Figure 2: Tools and frameworks involved in the OnoM@p System.

¹⁰H2GIS website: <http://www.h2gis.org/>.

¹¹Geoserver website: <http://geoserver.org/>.

¹²Leaflet website: <http://leafletjs.com/>.

2.1.2 Standards and programming languages

The data collected along a journey (*i.e.* a track) and shared by the volunteers with the *NoiseCapture* application are forwarded to the CNRS database in zipped files which are encoded as a hexadecimal string and whose contents are stored in XML files. The zip file contains 3 files (See Section 2.2):

- a *geojson* file, called *track_locations*, that stores all track coordinates;
- a *txt* file, named *track_indicators*, that contains the noise indicators computed along the track;
- another *txt* file, called *track_metadata*, that concatenates some metadata concerning the smartphone, the calibration method, etc (see Table 2).

These three files are transferred to the CNRS server by means of a Web Processing Service (WPS) that is handled by GeoServer. The zipped files received on the server are unzipped and the extracted files are integrated to the database by a relational database management system (RDBMS) SQL script.

The estimation of the advanced noise indicators is handled by GeoServer too and implemented through Simple Features Specification (SFS) for SQL. Besides, the open-source JavaScript library Leaflet¹³ is used for the rendering based on HTML5 canvas.

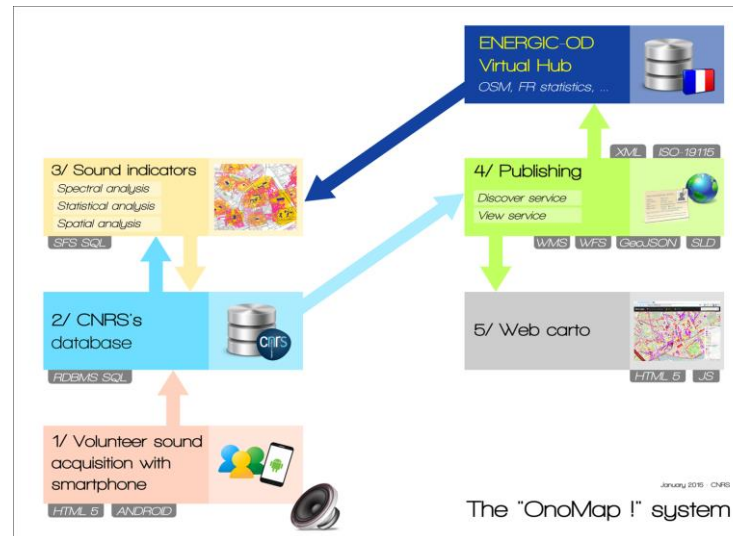


Figure 3: Standards and programming languages involved in the OnoM@p system.

¹³Leaflet website: <http://leafletjs.com/>.

2.2 Smartphone application: *NoiseCapture*

NoiseCapture is a smartphone application dedicated to Android devices. The interface is made up of several activities illustrated in Figure 5 and detailed hereafter.

2.2.1 Measurement

The measurement screen, presented at Figure 5(a), proposes 4 actions in the form of actions icons explained in the Table 2.





	Start/stop measurement
	Cancel measurement
	View history
	View measurement(s) map

Table 2: Signification of the actions icons available in the measurement screen of *NoiseCapture*.

During the measurement (*i.e.* along the track), *NoiseCapture* computes each second the equivalent A-weighted sound levels for each of the $N_f=20$ third octave bands comprised between the nominal frequencies 125 Hz until 10 kHz. An one-third octave bands spectrum is displayed and refreshed at each computation. The minimum, the mean and the maximum global A-weighted sound levels L_{Amin} , L_{Amean} and L_{Amax} are also given, the mean value being calculated from:

$$L_{Amean} = 10\log_{10}(\sum_{n=1}^{N_t} L_{Aglobal,n}),$$


with $L_{Aglobal,n}$ the n^{th} A-weighted global sound level recorded from the beginning of the measurement (N_t samples). The A-weighted global sound level is evaluated from the 20 one-third octave bands sound levels $L_{A,i}$ as:

$$L_{Aglobal} = 10\log_{10}(\frac{1}{N_f} \sum_{i=1}^{N_f} 10^{L_{A,i}/10}).$$

2.2.2 Results

The results, illustrated at Figure 5(b), correspond to both acoustical and statistical indicators computed for the whole duration of the measurement. The percentile levels¹⁴ L_{A10} , L_{A50} and L_{A90} stand for the sound levels exceeded for 10%, 50% and 90% of the measurement period respectively. Both the minimum and the maximum global A-weighted sound levels L_{Amin} and L_{Amax} are informed. Moreover, the average A-weighted sound levels per third octave bands $L_{A,i}$ are

¹⁴ L_{A10} represents the peak noise, L_{A50} the mean value of the noise levels and L_{A90} the mean value of the background noise.

printed and the global sound level $L_{Aglobal}$ is displayed through both a numeric value and a coloured circular gauge. The Repartition of Noise Exposure (RNE) is also shown in the form of a pie chart that represents a classification of sound levels within five levels ranges, as follows: [$< 45\text{dB(A)}$], [$45 - 55\text{dB(A)}$], [$55 - 65\text{dB(A)}$], [$65 - 75\text{dB(A)}$] and [$> 75\text{dB(A)}$]. Instead of the cancellation action available on the measurement screen, the user is invited to share its last measurement by uploading the corresponding data to the CNRS server ().

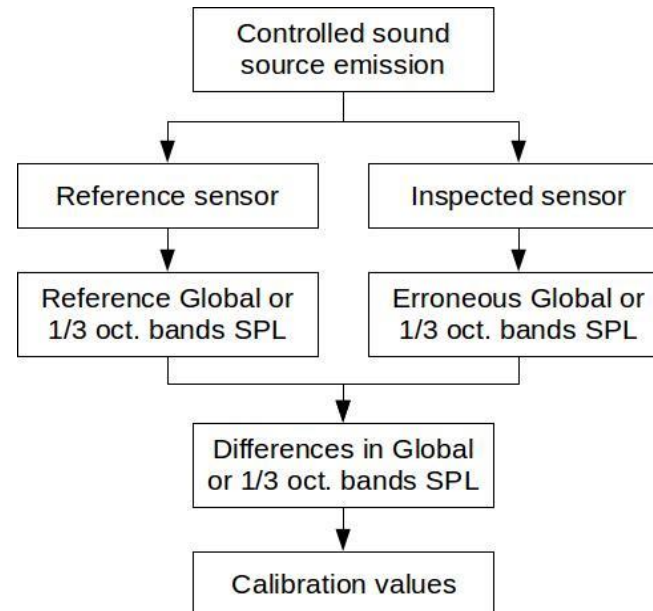


Figure 4: Calibration process.

2.2.3 History

This screen gathers all performed measurements and proposes three possible actions:

- to remove selected measurements;
- to show selected measurements on a map;
- to show the results in numeric values.

2.2.4 Map

At the first launch of this window, the following caution message is displayed: “*In order to load the map, you must enable the data transfer option in the user settings*”. When the data transfer is activated, the user is able to see its measurement points on a map based on OpenStreetMap data.

2.2.5 Calibration

This screen enables the user to calibrate its measurement device. A calibration consists in confronting the result(s) given by the *NoiseCapture* application with the one(s) either *a priori*-known or delivered by a sonometer, for a reference noise excitation (see Figure 4). *NoiseCapture* proposes three calibration procedures:

1. *Sonometer with global value*: the device estimate of the A-weighted global sound level $L_{A\text{global}}$ is confronted with the value obtained through a simultaneous measurement by a sonometer using a controlled sound source emitting a standardized noise.
2. *Sonometer with frequency band values*: the third octave bands values of the A-weighted sound levels $L_{A,i}$ are compared with the ones delivered by a sonometer for a reference noise excitation.
3. *Reference to background noise*: the background noise is employed as reference noise excitation.

Calibration data (*i.e.* correction values and used calibration method) are stored and linked to the user profile.

2.2.6 Help

This screen gives some information concerning the application.

2.2.7 About

This window presents both the acousticians and geomaticians team behind the *NoiseCapture* application development and maintenance.



Figure 5: Screenshots of the *NoiseCapture* application: (a) measurement screen, (b) results screen and (c) noise map visualization.

2.3 Smartphone data and CNRS database structure

The database is populated with the three files contained in each zip file send by a smartphone. Six tables are used to collect all data in the database.

- *noisecapture_track*: this table contains the data referring to noise indicators along the GPS tracks;
- *noisecapture_user*: this table aggregates information about the contributors;
- *noisecapture_point*: this table is made up with measurement points data with supplementary information concerning the device state;
- *noisecapture_calibrate*: this table gathers the calibration values for the GPS tracks for each nominal frequency;
- *noisecapture_freq*: this table gives the sound levels per nominal frequencies for each measurement point.

- freq: this table lists the nominal frequencies.

The entity keys of these tables and their description are reported in Table 3. The corresponding smartphone file is also reported.

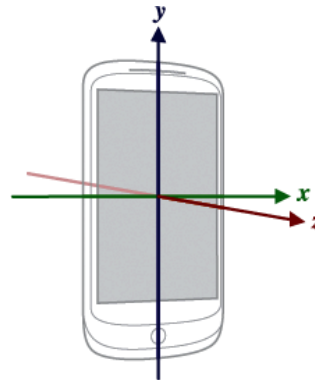


Figure 6: Coordinate system of the device (Source: <http://developer.android.com/reference/android/hardware/SensorEvent.html>).

Tables	Entity keys	Keys types	Description	Smartphone file
noisecapture_track	pk_track	int4 (PK)	Unique key relative to the GPS track	-
	pk_user	int4	Unique key relative to the user	-
	sel	float8	A-weighted Sound Exposure Level along the track	track_indicators
	la10	float8	A-weighted sound level exceeded for 10% of the sample period [dB(A)]	track_indicators
	la50	float8	A-weighted sound level exceeded for 50% of the sample period [dB(A)]	track_indicators
	la90	float8	A-weighted sound level exceeded for 90% of the sample period [dB(A)]	track_indicators
	la_min	float8	Minimum A-weighted sound level [dB(A)]	track_indicators
	la_max	float8	Maximum A-weighted sound level [dB(A)]	track_indicators

	noise_status	int4	Mean A-weighted sound level status	track_indicators
	noise_pie_1	int4	Percentage of the measurement duration for which 1-second A-weighted sound levels are comprised within the 1 st range of sound levels ([< 45dB(A)])	track_indicators
	noise_pie_2	int4	Percentage of the measurement duration for which 1-second A-weighted sound levels are comprised within the 2 nd range of sound levels ([45 – 55dB(A)])	track_indicators
	noise_pie_3	int4	Percentage of the measurement duration for which 1-second A-weighted sound levels are comprised within the 3 rd range of sound levels ([55 – 65dB(A)])	track_indicators
	noise_pie_4	int4	Percentage of the measurement duration for which 1-second A-weighted sound levels are comprised within the 4 th range of sound levels ([65 – 75dB(A)])	track_indicators
	noise_pie_5	int4	Percentage of the measurement duration for which 1-second A-weighted sound levels are comprised within the 5 th range of sound levels ([> 75dB(A)])	track_indicators
	calibration_mode	int2	Device calibration method (See Section 41).	
noisecapture_user	pk_user	int4 (PK)	Unique key relative to the user	-
	user_hash	varchar(20)	Hash key relative to the user	-
	pseudo	varchar(20)	User pseudonym	track_metadata
	date_creat	date	Date of creation of the user profile	-
oisecapture_point	pk_point	int4 (PK)	Unique key relative to the point	-
	the_geom	point (geometry)	Point coordinates	track_locations
	pk_track	int4 (FK)	Track index	-
	leq_calc	float8	Equivalent sound level [dB(A)]	track_locations

	speed	float8	Speed of the device [m.s ⁻²]	track_locations
	accuracy	float8	Accuracy of the GPS position	track_locations
	orientation	float8	Orientation of the device ¹⁵ [(azimuth, pitch, roll)]	track_locations
	nb_sat	int4	Number of GPS satellites	track_locations
	time_date	timestamp	Date and time of the sample	track_locations
	provider	int2	Provider	track_locations
noisecapture_calibrate	pk_track	int4 (FK)	Unique key relative to the GPS track	-
	pk_freq	int2 (FK)	Unique key relative to the nominal frequency	-
	delta	float8	Calibration value [dB(A)]	track_locations
noisecapture_freq	pk_point	int4 (FK)	Unique key relative to the GPS point	-
	pk_freq	int2 (FK)	Unique key relative to the nominal frequency	-
	noise_level	float8	Sound level [dB(A)]	track_locations
freq	pk_freq	int2 (PK)	Unique key relative to the nominal frequency	-
	freq	int4	Nominal frequency [Hz]	track_locations

Table 3: Data model (PK: Primary Key; FK: Foreign Key).

¹⁵Azimuth is the angle around the z-axis, pitch corresponds to the angle around the x-axis and roll matches the angle around the y-axis in the coordinate system represented at Figure 6.

2.4 Advanced noise-related indicators

In addition to the noise indicators evaluated directly by the *NoiseCapture* application (*i.e.* $L_{Aglobal,inst}$, L_{Amin} , L_{Amean} and L_{Amax}), more advanced indicators can be estimated.

The first step relies on the calculation of the day-evening-night equivalent sound level (L_{den}), also named Community Noise Equivalent Level (CNEL). This indicator corresponds to an average sound level over a 24-hour period, with penalties of 5 dB and of 10 dB added for the evening hours (19:00-22:00) and for the nighttime period (22:00-07:00), that is:

$$L_{den} = 10\log_{10}\left(\frac{12}{24} \times 10^{L_{day}/10} + \frac{4}{24} \times 10^{(L_{evening}+5)/10} + \frac{8}{24} \times 10^{(L_{night}+10)/10}\right),$$

where L_{day} , $L_{evening}$ and L_{night} correspond to the A-weighted long-term average sound levels for daytime (06:00-18:00), eveningtime and nighttime periods respectively [15].

Statistical indicators can also be evaluated by connecting the noise database with geographical and population data. For example, population exposure can be reckoned by confronting noise data with land-use rates data. Thus, an estimate of the inhabitants exposed to ranged noise levels (*i.e.* the distribution of noise exposure in the population) is allowed by combining the sound levels (*e.g.* the L_{den} values) comprised within a range of values over the studied territory and its demographic distribution.

2.5 Exchanges with the Energic-OD Virtual Hub

The produced data feed into the Energic-OD Virtual Hub. Firstly, the data collected by the user are sent into the CNRS database and, afterwards, these data are relayed to the Virtual Hub after publishing (See Section 48). The OnoM@p system will be able to share the collected data and the computed indicators as a set of thematic maps using WMS layers. These layers could be merged into the Virtual Hub as a discovery service.

2.6 Publishing

The data publishing is ensured by Discovery and View Services. Thus georeferenced maps are produced by using WMS. These maps display the users noise data on a OpenStreetMap-based geographic map. Advanced indicators (See Section 48) are also mapped in this way. The geographical features are handled by a Web Feature Service (WFS).

2.7 References

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Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://www.openstreetmap.org	OpenStreetMap	-					
http://professionnels.ign.fr/contoursiris#tab-3	Contour Iris	-					
http://www.insee.fr/fr/bases-de-donnees/default.asp?page=infracommunal.htm	Insee population	-					

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://www.openstreetmap.org	OpenStreetMap	CRS transformation from WGS84 to French projection	rest api to query data according a bounding box and a temporal filter	geojson
http://professionnels.ign.fr/contoursiris#tab-3	Contour Iris		rest api to query data according a bounding box and a temporal filter	geojson
http://www.insee.fr/fr/bases-de-donnees/default.asp?page=infracommunal.htm	Insee population		rest api to query data according a bounding box and a temporal filter	json

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://www.openstreetmap.org	OpenStreet Map	*****	Vector	Fully accessible	NO		France	YES
http://professionnels.ign.fr/contoursiris#tab-3	Contour Iris	*****	Vector	Fully accessible	NO		France	YES
http://www.insee.fr/fr/bases-de-donnees/default.asp?page=infracommunal.htm	Insee population	*****	Attributes	Fully accessible	NO		France	YES

VH processing					
Data Processing	Input	Output		API availability	Info link
Extract OMS layers (road, building and landcover)	OSM model	3 vector layers (road, building and landcover)			

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
Yes	yes using WMS service	NO	Noise level in db(A)	Online webcarto	

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	noise pollution in urban and semi-urban areas			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	Environmental noise Directive (END) 2002/49/CE			
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	Propose a new method to build noise Map based on citizen participatory.			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity			
Smart Cities and Communities	YES	Combined acoustic measures taken on-site via a smartphone application, it is now possible to imagine automatically generating up-to-date collaborative noise maps. The goal is to involve the citizen as much as possible in a collective effort to evaluate and monitor the state and health of a given terrain.	Evaluate, impact, noise pollution, participatory
Water and Raw Materials			

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;			
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;	YES	In this project, the CNRS will build upon its previous research to develop a novel platform for generating collaborative noise maps. The stakes are twofold: (1) public participation and (2) highlighting the community's initiatives to put the citizen at the center of this data acquisition project.	Sharing knowledges, reduce noise exposure in personal life activities
Europe in a changing world - inclusive, innovative and reflective societies;	YES		
Secure societies - protecting freedom and security of Europe and its citizens.			

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture			
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy			
Health			
Water			
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.		

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	yes	Noise data will be used by professional to build exposure indicators, or decision maps.	
Volunteered GI communities	yes	Noise data will be collected by VGI.	
Open data network	yes	The app will used Open data network in order to create spatial indicators (demographic data coupled with noise measures).	
SMEs			
PAs			
Citizen (for example, elderly, youngsters, students, tourists)	yes	The noise data collected by the app are a valuable resource for both the scientists and public authorities since they provide a low-cost alternative solution to simulations or fixed sensors network monitoring while keeping the citizen at the heart of the research and of the action plan.	
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?	CNRS will organized noise map parties to promote user-contributed noise data and host workshops and other publicity campaigns to promote the discovery and use of the noise map platform. The CNRS is well-experienced in this domain thanks to its role in the development of OrbisGIS and Cartopolis. CNRS has two years of experience organizing map parties with the Humanitarian Open Street Map task force (HOT project).		

A5 - PROXISANTÉ (DEPTH)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://download.geofabrik.de/	OpenStreetMap	-	-	-	HTTP	-	PBF
http://carto.atlasante.fr/cgi-bin/mapservwfs	AtlasSanté	-	-	INSPIRE	WFS	1.0.0	GML
http://dataratp.download.opendatasoft.com/RATP_GTFS_FULL.zip	Paris Transport Network	-	-	-	HTTP	-	GTFS
https://data.toulouse-metropole.fr/explore/dataset/tisseo-gtfs/files/bd1298f158bc39ed9065e0c17ebb773b/download/	Toulouse Transport Network	-	-	-	HTTP	-	GTFS
http://ressources.data.sncf.com/api/datasets/1.0/sncf-intercites-gtfs/attachments/export_intercites_gtfs_last_zip	LyonTransport Network	-	-	-	HTTP	-	GTFS
http://www.insee.fr/fr/ppp/bases-de-donnees/donnees-detaillees/donnees-carroyees/zip/200m-carreaux-metropole.zip	Population location	-	-	-	HTTP	-	MIF/MID

http://www.tigeo.fr/geoserver/sdis81/wfs	defibrillator	-	-	INSPIRE	WFS	2.0.0	GML
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Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://download.geofabrik.de/	OpenStreetMap			
http://carto.atlasante.fr/cgi-bin/mapservwfs	AtlasSanté			
http://dataratp.download.opendatasoft.com/RATP_GTFS_FULL.zip	Paris Transport Network			
https://data.toulouse-metropole.fr/explore/dataset/tisseo-gtfs/files/bd1298f158bc39ed9065e0c17ebb773b/download/	Toulouse Transport Network			
http://ressources.data.sncf.com/api/datasets/1.0/sncf-intercites-gtfs/attachments/export_intercites_gtfs_last_zip	LyonTransport Network			
http://www.insee.fr/fr/ppp/bases-de-donnees/donnees-detaillees/donnees-carroyees/zip/200m-carreaux-metropole.zip	Population location			
http://www.tigeo.fr/geoserver/sdis81/wfs	defibrillator			

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://download.geofabrik.de/	OpenStreet Map							
http://carto.atlasante.fr/cgi-bin/mapservwfs	AtlasSanté							
http://dataratp.download.opendatasoft.com/RATP_GTFS_FULL.zip	Paris Transport Network							
https://data.toulouse-metropole.fr/explore/dataset/tisseo-gtfs/files/bd1298f158bc39ed9065e0c17ebb773b/download/	Toulouse Transport Network							

http://ressources.data.sncf.com/api/datasets/1.0/sncf-intercites-gtfs/attachments/export_intercites_gtfs_last.zip	LyonTransport Network							
http://www.insee.fr/fr/ppp/bases-de-donnees/donnees-detaillees/donnees-carroyees/zip/200m-carreaux-metropole.zip	Population location							
http://www.tigeo.fr/geoserver/sdis81/wfs	defibrillator							

VH processing				
Data Processing	Input	Output	API availability	Info link
Generating isochrones maps from road graphs and kml POI files	KML or GeoJSON	GeoJSON (polygon)	OpenTripPlanner	http://www.opentripplanner.org/
Calculating number of people living in a given polygon	GeoJSON polygon	Number of people (INT)		
Converting WFS/GML into GeoJson with caching mechanism	WFS layer + BBOX or extent	GeoJSON		http://tilestache.org/

Information about crowdsourcing (data publication trough the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?• Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention)</p> <ul style="list-style-type: none"> • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<ul style="list-style-type: none"> • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>		<p>Instruction N°DGOS/R2/2012/267 du 3 juillet 2012 relative au temps d'accès en moins de trente minutes à des soins urgents.</p>		
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	<p>The application will permit to find where urgency services have to be implemented</p>			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging	YES	The application permit to identify the area where there is a lack of health services. It can help public authorities to take decisions of new implementations of health services	
Agricultural Sustainability and Productivity			
Smart Cities and Communities			
Water and Raw Materials			

B. Societal challenges, as intended by EU and Horizon2020, will bring together resources and knowledge across different fields, technologies and

disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;	NO		
Secure, clean and efficient energy;	NO		
Smart, green and integrated transport;	NO		
Climate action, environment, resource efficiency and raw materials;	NO		
Europe in a changing world - inclusive, innovative and reflective societies;	NO		
Secure societies - protecting freedom and security of Europe and its citizens.	NO		

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS)

project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture			
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy			
Health	YES	The application permit to identify the area where there is a lack of health services. It can help public authorities to take decisions of new implementations of health services	
Water			
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.		

Section 2: User communities and final user requirements

Question			
2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	YES	The application has an API that will permit users to generate isochron maps on any kind of dataset	
Volunteered GI communities	NO		
Open data network	YES	The application has an API that will permit users to generate isochron maps on any kind of dataset	
SMEs	YES	The application will be OpenSource and could be reuse by others SMEs	
PAs	YES	The application permit to identify the area where there is a lack of health services. It can help public authorities to take decisions of new implentations of health services	
Citizen (for example, elderly, youngsters, students, tourists)	NO		
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			

A6 - NATURAL HAZARDS ASSESSMENT FOR AGRICULTURE (IGIK)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
IGiK's products will be delivered to the VH	quantitative crop yield reduction for selected EU NUTs levels	WMS	1.3	INSPIRE	WMS	1.3	-
http://mapy.geoportal.gov.pl/wss/service/img/guest/TOPO/MapServer/WMSServer	topographic map of Poland as a background	WMS	1.3	INSPIRE	WMS	1.3	-

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
IGiK's products will be delivered to the VH	quantitative crop yield reduction for selected EU NUTs levels	Not needed	client side api	wms
http://mapy.geoportal.gov.pl/wss/service/img/guest/TOPO/MapServer/WMSServer	topographic map of Poland as a background	Not needed	client side api	wms

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
IGiK's products will be delivered to the VH	quantitative crop yield reduction for selected EU NUTs levels	*****	raster	free, registration Not required	Not for commercial use		Poland	Y
http://mapy.geoportal.gov.pl/wss/service/img/guest/TOPO/MapServer/WMServer	topographic map of Poland as a background	*****	raster	free, registration not required	No restrictions	http://mapy.geoportal.gov.pl	Poland	Y

VH processing				
Data Processing	Input	Output	API availability	Info link
Attribute table visualization	Data table associated with a wms raster	Numeric information		

Information about crowdsourcing (data publication trough the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
Crowdsourcing not needed					

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?• Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention)</p> <ul style="list-style-type: none"> • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	Agriculture			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.	NO	NO	NO	NO
	Answer			
1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?	No impact			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity	YES	The app will raise the endusers' awareness about the current condition of crops, possible damages due to natural hazards and estimate crop yield reduction.	agriculture hazard, crop yield
Smart Cities and Communities			
Water and Raw Materials			

B. Societal challenges, as intended by EU and Horizon2020, will bring together resources and knowledge across different fields, technologies and

disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;	YES	The app will allow to assess potential shortage of crops and to anticipate increase of their price. It will also allow insurance companies to assess the levels of financial compensation which should be given to farmers due to damages of crops.	food security
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;			
Europe in a changing world - inclusive, innovative and reflective societies;			
Secure societies - protecting freedom and security of Europe and its citizens.			

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS)

project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture	YES	The app will raise the endusers' awareness about the current condition of crops, possible damages due to natural hazards and estimate crop yield reduction.	Economic trade of agricultural products, condition of food
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy			
Health			
Water			
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.	NO	

Section 2: User communities and final user requirements

Question			
2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community			
Volunteered GI communities			
Open data network			
SMEs	YES	insurance companies	YES
PAs			
Citizen (for example, elderly, youngsters, students, tourists)	YES	farmer, agriculture policy makers	YES
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?	The app will raise the endusers' awareness about the current condition of crops, possible damages due to natural hazards and estimate crop yield reduction. It will allow to assess potential shortage of crops and to anticipate increase of their price. It will also allow insurance companies to assess the levels of financial compensation which should be given to farmers due to damages of crops.		

A7 - BIODIVERSITY BIRD INDICATOR (LUP)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
ftp://ftp.glc.f.umd.edu/glc/f/Landsat/	Landsat data	FTP	1.3	INSPIRE	WMS	1.3	-
http://www.vito-eodata.be/PDF/portal/Application.html#Home	PROBA-V data	Homepage, custom ftp after data order	-	-	HTTP	-	SHP
-Not yet available	bird habitat suitability maps	WMS	1.3	INSPIRE	WMS	1.3	-
http://luaplms01.brandenburg.de/invekos_internet/viewer.htm	Feldblockkataster	?	1.3	INSPIRE	WMS	1.3	-
http://otile1.mqcdn.com/tiles/1.0.0/map...	MapQuest-OSM Tile	URL					
http://otile1.mqcdn.com/tiles/1.0.0/sat...	MapQuest Open Aerial Tile	URL					
http://a.tile.openstreetmap.org	OSM Tile	URL					

http://www.osm-wms.de/	OSM Hillshade Europe	WMS					
ftp://modis-atmos.gsfc.nasa.gov/L3LandSurfaceProducts/Data/NDVI/	MODIS NDVI	FTP					
-Not yet available	Sentinell II	?					

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
ftp://ftp.glcfc.umd.edu/glcfc/Landsat/	Landsat data			
http://www.vito-eodata.be/PDF/portal/Application.html#Home	PROBA-V data			
-Not yet available	bird habitat suitability maps			
http://luaplms01.brandenburg.de/invekos_internet/viewer.htm	Feldblockkataster			
http://otile1.mqcdn.com/tiles/1.0.0/map...	MapQuest-OSM Tile			
http://otile1.mqcdn.com/tiles/1.0.0/sat...	MapQuest Open Aerial Tile			
http://a.tile.openstreetmap.org	OSM Tile			
http://www.osm-wms.de/	OSM Hillshade Europe			
ftp://modis-atmos.gsfc.nasa.gov/L3LandSurfaceProducts/Data/NDVI/	MODIS NDVI			
-Not yet available	Sentinell II			

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
ftp://ftp.glcf.umd.edu/glcf/Landsat/	Landsat data							
http://www.vito-eodata.be/PDF/portal/Application.html#Home	PROBA-V data							
-Not yet available	bird habitat suitability maps							
http://luaplms01.brandenburg.de/invekos_internet/viewer.htm	Feldblockkattaster							
http://otile1.mqcdn.com/tiles/1.0.0/map...	MapQuest-OSM Tile							
http://otile1.mqcdn.com/tiles/1.0.0/sat...	MapQuest Open Aerial Tile							
http://a.tile.openstreetmap.org	OSM Tile							
http://www.osm-wms.de/	OSM Hillshade Europe							
ftp://modis-atmos.gsfc.nasa.gov/L3LandSurfaceProducts/Data/NDVI/	MODIS NDVI							
-Not yet available	Sentinell II							

VH processing				
Data Processing	Input	Output	API availability	Info link
Search and download of satellite data with added criteria, like path/row, cloud cover, date	Text file with attributes	geotiff		

Information about crowdsourcing (data publication trough the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>Agriculture, Biodiversity, Landuse planning</p>			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	<p>CAP reform, InVeKos, EU biodiversity targets 2020</p>			
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	<p>Potential habitat suitability for agricultural bird species, which are part of the EU biodiversity indicator, potential impact of new agricultural reform on biodiversity</p>			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity	YES	Policy decision instrument, information tool	bird; biodiversity; GAP-reform; Brandenburg; habitat suitability
Smart Cities and Communities			
Water and Raw Materials			

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;	YES	Interactive platform for agrobiodiversity to provide everyone involved in the implementation of the new reform (in particular with the so called "Greening" measures) with information and assistance for a ecologically worthwhile implementation	agroviodiversity
Secure, clean and efficient energy;	NO		
Smart, green and integrated transport;	NO		
Climate action, environment, resource efficiency and raw materials;	NO		
Europe in a changing world - inclusive, innovative and reflective societies;	NO		
Secure societies - protecting freedom and security of Europe and its citizens.	NO		

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture	YES	agricultural fields & crops	crops, agriculture
Biodiversity	YES	habitat suitability	agroiodiversity, potential bird habitat
Climate	NO		
Disasters	NO		
Ecosystems	YES	habitat suitability	agroiodiversity
Energy	NO		
Health	NO		
Water	NO		
Weather	NO		

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.	NO	

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	NO		
Volunteered GI communities	NO		
Open data network	NO		
SMEs	NO		
PAs	NO		
Citizen (for example, elderly, youngsters, students, tourists)	NO		
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?	Policy instrument, information tool		

A8 - GEOPAN ATL@S (POLIMI)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Biodiversità - Habitat Rete Natura 2000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.sit.comune.parma.it/cgi-bin/files/2013/shp/fabbri.zip	Fabbricati	SHP	-	-	SHP	-	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMServer	Ortofoto AGEA 2012	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/dusaf21/MapServer/WMServer	DUSAF 2.1 - Uso suolo 2007	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IBA.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/Atlante_desertific	Atlante nazionale delle aree a rischio di desertificazione	WMS	1.3	INSPIRE	WMS	1.3	

azione.map							
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Bacini_idrografici.map	Bacini idrografici principali e secondari	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_ecopedologica.map	Carta ecopedologica d'Italia	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_geologica.map	Carta geologica d'Italia	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Catalogo_Frane.map	Catalogo frane	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Classificazione_sismica_2012.map	Classificazione sismica dei comuni italiani al 2012	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Edifici.map	Edificato dei capoluoghi di provincia	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_ferroviana.map	Infrastrutture ferroviarie	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_stradale.map	Infrastrutture stradali	WMS	1.3	INSPIRE	WMS	1.3	

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/ortofoto_colore_12.map	Ortofoto a colori anno 2012 con relative date del volo	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/ortofoto_colore_sisma_aquila.map	Ortofoto a colori sisma L'Aquila con relative date del volo - Aprile 2009	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_pericolosità.map	PAI - Pericolosità idrogeologica	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_rischio.map	PAI - Rischio idrogeologico	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosità_sismica_002.map	Pericolosità sismica di riferimento a passo 0,02 gradi	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosità_sismica_005.map	Pericolosità sismica di riferimento a passo 0,05 gradi	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Aste_fluviali.map	Reticolo idrografico	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Siti_protetti.map	Siti protetti - VI Elenco ufficiale aree protette	WMS	1.3	INSPIRE	WMS	1.3	

v1.3/Vettoriali/EUAP.map	(EUAP)						
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006.map	Uso del suolo - Corine Land Cover anno 2006	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_IV_Livello	Uso del suolo - Corine Land Cover anno 2000 IV Livello	WMS	1.3	INSPIRE	WMS	1.3	

Cover2000_IVliv.map							
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006_IVliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	WMS	1.3	INSPIRE	WMS	1.3	
http://wms.pcn.minambiente.it/wcs/DES_SAL_ACQUE	Atlante della desertificazione - Acquiferi potenzialmente salini	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_AREE	Atlante della desertificazione - Aree protette	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_URBANO	Atlante della desertificazione - Aree urbane e principali infrastrutture	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_NDVI	Atlante della desertificazione - Indice di vegetazione normalizzato (Normalized Difference Vegetation Index - NDVI)	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_PASCOLI	Atlante della desertificazione - Intensita' di Pascolamento	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_AGROSEM	Atlante della desertificazione - Misure agroambientali su seminativi	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_PASCOLI	Atlante della	WCS	1.1.2	INSPIRE	WCS	1.1.2	

.it/wcs/DES_SIC_SECCO	desertificazione - Numero medio annuo di giorni di suolo secco						
http://wms.pcn.minambiente.it/wcs/DES_ERO_RILLS	Atlante della desertificazione - Presenza di fenomeni di erosione	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_SIC_POTEN	Atlante della desertificazione - Siccità potenziale	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/wcs/DES_ERO_SUOLI	Atlante della desertificazione - Suoli sottili su forti pendenze	WCS	1.1.2	INSPIRE	WCS	1.1.2	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IBA.A.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WFS/Atlante_desertificazione.map	Atlante nazionale delle aree a rischio di desertificazione	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Bacini_idrografici.map	Bacini idrografici principali e secondari	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_ecopedologica.map	Carta ecopedologica d'Italia	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_geologica.map	Carta geologica d'Italia	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Catalogo_Frane.map	Catalogo frane	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Classificazione_sismica	Classificazione sismica	WFS	1.1.0	INSPIRE	WFS	1.1.0	

.it/ogc?map=/ms_ogc/wfs/Classificazione_sismica_2012.map	dei comuni italiani al 2012						
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Edifici.map	Edificato dei capoluoghi di provincia	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Reteferroviaria.map	Infrastrutture ferroviarie	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Retestradale.map	Infrastrutture stradali	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_pericolosita.map	PAI - Pericolosità idrogeologica	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_rischio.map	PAI - Rischio idrogeologico	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosita_sismica_002.map	Pericolosità sismica di riferimento a passo 0,02 gradi	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosita_sismica_005.map	Pericolosità sismica di riferimento a passo 0,05 gradi	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Assefluviali.map	Reticolo idrografico	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/EUSitiProtetti.map	Siti protetti - VI Elenco ufficiale aree protette	WFS	1.1.0	INSPIRE	WFS	1.1.0	

AP.map	(EUAP)						
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006.map	Uso del suolo - Corine Land Cover anno 2006	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000_IVliv.map	Uso del suolo - Corine Land Cover anno 2000 IV Livello	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006_IVliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	WFS	1.1.0	INSPIRE	WFS	1.1.0	

map							
http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WMSServer	Toponomastica	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WMSServer	Idrografia	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WMSServer	Viabilità	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/siat/services/OGC/CTP2013/ImageServer/WMSServer	Carta Tecnica Provinciale	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/arcgis/services/Soleggiamento_DSM_DTM/MapServer/WMSServer	LIDAR Soleggiamento DSM e DTM	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WMSServer	Ambiti Statistici	WMS	1.1.1	INSPIRE	WMS	1.1.1	
http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WFSServer	Toponomastica	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WFSServer	Idrografia	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WFSServer	Viabilità	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WFSServer	Ambiti Statistici	WFS	1.1.0	INSPIRE	WFS	1.1.0	

n.it/arcgis/services/Ambiti_St atistici/MapServer/WFSServe r							
http://geoservices.provincia.t n.it/wfs/cl2D	Curve di livello grezze	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://geoservices.provincia.t n.it/wfs/cl2Ds	Curve di livello smussate	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://sdi.provincia.bz.it/geos erver/wms	Vari tematismi	WMS	1.3	?	WMS	1.3	
http://sdi.provincia.bz.it/geos erver/wms	Vari tematismi	WFS	1.1.0	?	WFS	1.1.0	
http://idt.regione.veneto.it/ wms_c0107_reteviaria/servic e.svc/get	Rete Viaria	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c04_acqua/service.svc/ get	c04010240012_Elemen toldrico	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c04_acqua/service.svc/ get	c0401031_Laghi	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c0501_litologia/service. svc/get	c0501031_LitologiaReg	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c0505_geositi/service.s vc/get	c0505013_Geositi	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c0506021_copsuolo/ser vice.svc/get	c0506021_CopSuolo	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/ wms_c0507021_cartasuolive neto/service.svc/get	c0507021_CartaSuoliV eneto	WMS	1.3	INSPIRE	WMS	1.3	

http://idt.regione.veneto.it/wms_c0604011_tipihabitat/service.svc/get	c0604011_TipiHabitat	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605011_CategForestali	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605021_CategForestaliCI	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605081_BoschiProtezione	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0801021_CentriStoriciAtl	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0802011_VilleVenete	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c1101_tutele/service.svc/get	c1101011_SIC	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/wms_c1101_tutele/service.svc/get	c1101021_ZPS	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/WMS_c1101_Tutele/service.svc/get	c1101081_TutPaesIntRegCPr	WMS	1.3	INSPIRE	WMS	1.3	
http://idt.regione.veneto.it/WMS_c1101_Tutele/service.svc/get	c1101091_TutPaesIntRegCEL	WMS	1.3	INSPIRE	WMS	1.3	
http://serviziogc.regione.fvg.it/geoserver/wms	Vari tematismi	WMS	1.3	?	WMS	1.3	

http://serviziogc.regione.fvg.it/geoserver/wfs	Vari tematismi	WFS	1.1.0	?	WFS	1.1.0	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsortoregp/wms_ortoregp2010?	Ortofoto Piemonte	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimslimammwms/wms_limitiAmm?	Limiti amministrativi	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsidrowms/wms_idro?	Idrografia	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/gsareprot/rp-01/areeprotwms/wms_gsareprot_1?	Aree Protette e Rete Natura 2000	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/arevincwms/wms_aree_vincoli?	Aree Vincolate	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/punvincwms/wms_benivigliano?	Beni Vincolati	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondocart_rif_bn?	BDTRE - Base cartografica di riferimento - 2015 - WMS B/N (Vettoriali)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondocart_rif?	BDTRE - Base cartografica di riferimento - 2015 - WMS Colori (Vettoriali)	WMS	1.3	INSPIRE	WMS	1.3	

http://geomap.reteunitaria.piemonte.it/ws/ginevra/rp-01/ngvwms/wms_ngv_1?	Viabilità e reti di trasporto	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_cds?	Consumo di Suolo	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/urbasv/rp-01/urbawms/urba_prgc_wms	Mosaicatura Piani Regolatori	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/disspaiwms/wms_vtdifsuolo_dissesti_pai?	Dissesti PAI	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/fascpaiwms/wms_vtdifsuolo_fasce_fluviali?	Fasce Fluviali	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/rmepaiwms/wms_vtdifsuolo_ree_rme?	Aree RME	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/incendiwms/wms_vtmonfor_incendi_boschivi?	Incendi boschivi	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/interventipsrwms/wms_vtmonfor_interventi_psr?	Piano di Sviluppo Rurale - Interventi	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/cartaforwms/wms_vtmonfor_cartafor?	PFT - Copertura forestale e altri usi del suolo	WMS	1.3	INSPIRE	WMS	1.3	

http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/pisifwms/wms_vtmonfor_pisif?	Piani di Sistemazione Idraulico- forestale (PISIF)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/popsemewms/wms_vtmonfor_popseme?	Popolamenti da seme	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsprrwms/wms_tav4_ppr?	TavolaP4 piano paesaggistico	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/anagamb/rp-01/ulowmsspub/wms_unita_locali_operative?	Anagrafe dei soggetti ambientali - Unità Locali Operative	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/ambpat/rp-01/rifwmspub/wms_impianti_rifiuti_authorized?	Impianti autorizzati al recupero e/o smaltimento di rifiuti	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/aera/rp-01/aerawms/wms_aera_emissioni_puntuali?	Inventario Emissioni Puntuali in atmosfera (AERA ALCOTRA)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/aera/rp-01/aerawms/wms_aera_emissioni_tot?	Inventario Emissioni Totali in atmosfera (AERA ALCOTRA)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/arbo/rp-01/arbowmsspub/wms_siar_compat_terror?	Attività soggette a normativa Seveso - Stabilimenti e Elementi territoriali vulnerabili	WMS	1.3	INSPIRE	WMS	1.3	

http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/sentieri/wms/wms_vtmonfor_sentieri?	Rete regionale dei percorsi escursionistici	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wms_corpi_idrici_wfd?	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMS (Raster 1:10.000)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMTS (Raster 1:10.000)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 - WMS (Raster 1:10.000)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 - WMTS (Raster 1:10.000)	WMS	1.3	INSPIRE	WMS	1.3	
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsraffgnsswfs/wfs_vertici_rete?	Vertici di Rete (raffittimento della rete IGM95 e GNSS)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wfs_corpi_idrici_w	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	WFS	1.1.0	INSPIRE	WFS	1.1.1	

fd?							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTERNE/28.asp	Servizio di visualizzazione WMS del Dataset: Bacini Idrografici	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1400.asp	Servizio di visualizzazione WMS del Dataset: Aree Protette e relativi Piani - ed. 2011	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTERNE/626.asp	Servizio di visualizzazione WMS del Dataset: Reticolo Idrografico e Nodi Idrografici sc. 1:10000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTERNE/436.asp	Servizio di visualizzazione WMS del Dataset: Laghi sc 1:5000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/39.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso del Suolo sc. 1:25000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/5.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso e Copertura del Suolo sc. 1:100000 (COR.IN.E.)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/5.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso	WMS	1.3	INSPIRE	WMS	1.3	

ONE/1415.asp	del Suolo sc. 1:10000						
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1371.asp	Servizio di visualizzazione WMS del Dataset: Acclività - 7 classi sc. 1:10000 - ed. 2007	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/272.asp	Servizio di visualizzazione WMS del Dataset: Foreste Regionali - ex demaniali sc. 1:10000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/750.asp	Servizio di visualizzazione WMS del Dataset: Zone rilevanti per la salvaguardia dei siti di interesse comunitario della Rete Natura 2000 e Misure di Conservazione valide per i SIC Alpini Liguri	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/STRUTTURE/854.asp	Servizio di visualizzazione WMS del Dataset: Edifici e Costruzioni - livelli della CTR sc. 1:5000 - 1990/2006	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENIFICHE/1007.asp	Servizio di visualizzazione WMS del Dataset: Sondaggi e Stratigrafie	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/750.asp	Servizio di visualizzazione WMS	WMS	1.3	INSPIRE	WMS	1.3	

oriocartografico/PIANIFICAZIONE/1205.asp	del Dataset: Interventi di difesa suolo sc. 1:5000						
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENIFICHE/1246.asp	Servizio di visualizzazione WMS del Dataset: Zone Sismiche - D.G.R. 1308/2008	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1478.asp	Servizio di visualizzazione WMS del Dataset: PAI Piano Assetto Idrogeologico del F. Po - Dissesti e Vincoli	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1015.asp	Servizio di visualizzazione WMS del Dataset: Carta delle Criticità ad Uso di Protezione Civile sc. 1:25000 - D.G.R. 746/2007	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/755.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Biogeografia e Bioclim	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Habitat Rete Natura 2000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Servizio di visualizzazione WMS	WMS	1.3	INSPIRE	WMS	1.3	

oriocartografico/BIOLOGIA/1182.asp	del Dataset: Biodiversità - Specie ed Altri Elementi Rilevanti						
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/555.asp	Servizio di visualizzazione WMS del Dataset: Carta Geologica Regionale con elementi di Geomorfologia (CGR) sc. 1:25000 - tav. 229.4 - Savona	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1577.asp	Servizio di visualizzazione WMS del Dataset: Uso del Suolo sc. 1:10000 - ed. 2012	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1572.asp	Servizio di visualizzazione WMS del Dataset: Zone a Protezione Speciale (ZPS) - DGR n.650/2012	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1584.asp	Servizio di visualizzazione WMS del Dataset: Esposizione dei versanti LIDAR - 9 classi sc. 1:5000 - ed. 2008	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1363.map	Servizio di visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000	WMS	1.3	INSPIRE	WMS	1.3	
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AGRICOLTURA/1363.map	Servizio di	WMS	1.3	INSPIRE	WMS	1.3	

one.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1593.map	visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000 - ed. 2013						
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1281.map	Servizio di visualizzazione WMS del Dataset: Remover - Rete di Monitoraggio dei Versanti sc.1:10000	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1626.map	Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità alluvionale - Direttiva Alluvioni 2007/60/CE e Dlgs 49/2010	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1627.map	Servizio di visualizzazione WMS del Dataset: Classi di rischio alluvionale ed elementi territoriali esposti - Direttiva Alluvioni 2007/60/CE e D.lgs 49/2010	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico	Servizio di visualizzazione WMS del Dataset: Inventario dei Fenomeni FranosI sc. 1:10000 - Progetto IFFI	WMS	1.3	INSPIRE	WMS	1.3	

/GEOSCIENTIFICHE/492.map							
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1686.map	Servizio di visualizzazione WMS del Dataset: P.T.A. 2014 - Registro delle aree protette	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1693.map	Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità da inondazioni marine - Direttiva Alluvioni 2007/60/CE	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1698.map	Servizio di visualizzazione WMS del Dataset: Aree inondate eventi alluvionali ottobre-novembre 2014 - DGR59/2015	WMS	1.3	INSPIRE	WMS	1.3	
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1702.map	Servizio di visualizzazione WMS del Dataset: Land Cover sc. 1:10000 - ed. 2012	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2013	WMS	1.3	INSPIRE	WMS	1.3	

http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ct_r5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2013	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr	Database Topografico Regionale	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008	Database Topografico Regionale 2008	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_map	Database Topografico Regionale 2008 vista combinata	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/ambiti_amministrativi	Ambiti Amministrativi	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ct_r5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ct_r5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/agea2011_rgb	Ortofoto AGEA 2011 RGB	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/agea2011_ir	Ortofoto AGEA 2011 Infrarossi	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/agea2011_multifunzione	Ortofoto multifunzione EMILIA-ROMAGNA -	WMS	1.3	INSPIRE	WMS	1.3	

romagna.it/wms/agea2008_rgb	AGEA 2008 RGB						
http://servizigis.regione.emilia-romagna.it/wms/agea2008_ir	Ortofoto multifunzione EMILIA-ROMAGNA - AGEA 2008 Infrarossi	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/ctr5	Carta Tecnica Regionale 1:5.000 - Edizione 1998	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/ctr25	Carta Tecnica Regionale 1:25.000 - Edizione 1998-2000	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/ctr250	Carta Topografica Regionale 1:250.000 - Edizione del 1994	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/ctrmultiscala	CTR - Multiscala	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/carta_storica_regionale_1853	Carta Storica Regionale 1:50.000 - Edizione del 1999	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/geologia10k	Carta geologica 1:10.000	WMS	1.3	INSPIRE	WMS	1.3	

http://servizigis.regione.emilia-romagna.it/wms/geologia50k	Carta geologica 1:50.000	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/geologia_sintesi	Carta geologica di sintesi	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/paesaggio_geologico	Paesaggio geologico	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/suoli	Tematismi dei suoli e carte derivate	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/areeprotette_natura2000	Aree Protette e Natura 2000	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/carta_della_vegetazione	Carta della vegetazione	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/tematismi_numerici_ctr10k	Tematismi numerici tratti dalla CTR 10.000 - 1988	WMS	1.3	INSPIRE	WMS	1.3	
http://servizigis.regione.emilia-romagna.it/wms/uso_del_suolo	Uso del suolo	WMS	1.3	INSPIRE	WMS	1.3	

http://servizigis.regione.emilia-romagna.it/wfs/carta_della_vegetazione	Carta della vegetazione (WFS)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://servizigis.regione.emilia-romagna.it/wfs/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013 (WFS)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://servizigis.regione.emilia-romagna.it/wfs/uso_del_suolo	Uso del suolo (WFS)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://webgispcn.autoritabacino.marche.it/cgi-bin/mapserv.exe?map=/ms_ogc/service/wms_pai_adbmarche.map	PAI	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmscastore&	CASTORE_WMS	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsofc&	Geoscopio_wms OFC	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsfotogrammi&map_resolution=91&	Geoscopio_wms FOTOTECA	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsfotogrammi&map_resolution=91&	Geoscopio_wms	WMS	?	?	WMS	?	

na.it/wmsraster/com.rt.wms.RTmap/wms?map=wmscatasato&map_resolution=91&	CATASTO						
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsctr&map_resolution=91&	Geoscopio_wms CTR	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbtm_rt.qgs	Regione Toscana - DBTM_DataBaseTopograficoMultiscala	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmstopogr&	Geoscopio_wms BASI TOPOGRAFICHE	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsambamm&	Geoscopio_wms AMBITI_AMMINISTRATIVI	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsambpogr&	Geoscopio_wms AMBITI_DI_PROGRAMMAZIONE	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsucs&map_resolution=91&	Geoscopio_wms USO_E_COPERTURA_DEL_SUOLO	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmssentieristica&map_resolution=91&	Geoscopio_wms SENTIERISTICA	WMS	?	?	WMS	?	

http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsidrogr&map_resolution=91&	Geoscopio_wms IDROGRAFIA	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmspiapae&	Geoscopio_wms PIANO_PAESAGGISTICO	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsgeologia&	Geoscopio_wms GEOLOGIA_INDAGINI_GEOTEMATICHE_E_MINERARIE	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbgeologico_rt.qgs	Regione Toscana - DB_GEOLOGICO	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsarprot&map_resolution=91&	Geoscopio_wms AREE_PROTETTE	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsperid r&	Geoscopio_wms RISCHIO IDROGEOLOGICO	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=mappe_acustiche_rt.qgs	Regione Toscana - MAPPE_ACUSTICHE	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmspedologia&map_resolution=91&	Geoscopio_wms PEDOLOGIA	WMS	?	?	WMS	?	

http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsidrogeologico&	Geoscopio_wms VINCOLO IDROGEOLOGICO	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmstoponomastica&	Geoscopio_wms TOPONOMASTICA	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsterritorimontani&	Geoscopio_wms TERRITORI_MONTANI	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbusosuolostorico_rt.qgs	Regione Toscana - Usi del suolo e rendite catastali nella Toscana Granducale (1835)	WMS	?	?	WMS	?	
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbse dimi_rt.qgs	Regione Toscana - Periodizzazione della crescita urbana (1897-2007)	WMS	?	?	WMS	?	
http://geo.umbriaterritorio.it/arcgis/services/public/CTR_10K_WGS84/MapServer/WMS Server	Carta Tecnica Regionale formato raster a scala 1:10.000 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/CTR_5K_WGS84/MapServer/WMS Server	Carta Tecnica Regionale formato raster a scala 1:5.000 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/CATASTO_5K_WGS84/MapServer/WMS Server	Catasto Regionale formato raster a scala 1:5.000 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	

http://geo.umbriaterritorio.it/arcgis/services/public/ECOGRAFICO_CATASTALE1_WGS84/MapServer/WMSServer	Ecografico Catastale Regionale WGS 84 - Grafo tratti stradali, Fabbricati, Numeri civici	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2011_WGS84/MapServer/WMSServer	Ortofoto Umbria 2011 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2008_WGS84/MapServer/WMSServer	Ortofoto Umbria 2008 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2005_WGS84/MapServer/WMSServer	Ortofoto Umbria 2005 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2000_WGS84/MapServer/WMSServer	Ortofoto Umbria 2000 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_1997_WGS84/MapServer/WMSServer	Ortofoto Umbria 1997 WGS 84	WMS	1.3	INSPIRE	WMS	1.3	
http://webgis.agriforeste.regione.umbria.it/cgi-bin/mapservwms	Cartografia agriforeste	WMS	1.3	?	WMS	1.3	
http://geocatalogo.regione.abruzzo.it/erdas-iws/ogc/wms/	Mosaici UTM-WGS84	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sist	SISTEMA DELLE CONOSCENZE	WMS	1.3	INSPIRE	WMS	1.3	

ema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Armatura_Urbana_e_Territoriale/MapServer/WmsServer	CONDIVISE - Armatura Urbana Territoriale						
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_dei_Rischi/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Rischi	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_dei_Valori/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Valori	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_dei_Vincoli/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Vincoli	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_del_Degrado_e_Abandono/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Degrado e Abbandono	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianifica	Aree protette	WMS	1.3	INSPIRE	WMS	1.3	

zione_e_Vincoli_Aree_Protette/MapServer/WmsServer							
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_PAIAreeRischio/MapServer/WmsServer	Piano per l'assetto Idrogeologico PAI - Carta del Rischio	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_PAI_pericolosità/MapServer/WmsServer	Piano per l'assetto Idrogeologico PAI - Carta della pericolosità	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Piano_Regionale_Paesistico_2004/MapServer/WmsServer	Piano Regionale Paesistico 2004	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_PSDA_Pericolosità/MapServer/WmsServer	PSDA Piano Stralcio Difesa Dalle Alluvioni	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Vincolo_Idrogeologico_RD30_1923/MapServer/WmsServer	Carta del Vincolo Idrogeologico	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Uso_Suolo_Edizione	Carta dell'Uso del Suolo ed. 2000	WMS	1.3	INSPIRE	WMS	1.3	

_2000/MapServer/WmsServer							
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Geobotanica_Habitat/MapServer/WmsServer	Cartografia geobotanica dei SIC al di fuori delle aree protette: Carta degli habitat.	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Tip_For_Categorie_Tipologie_Forestali/MapServer/WmsServer	Carta Tipologico-Forestale della Regione Abruzzo	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Potenziale/MapServer/WmsServer	Rischio erosione potenziale dei suoli	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Suoli_e_Paesaggi_Abruzzo/MapServer/WmsServer	Carta dei suoli della Regione Abruzzo - ARSSA	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Reale/MapServer/WmsServer	Rischio erosione reale dei suoli	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop	Carta Aree Esondabili	WMS	1.3	INSPIRE	WMS	1.3	

p_Difesa_Suolo_Geologia_Pedologia/Difesa_Suolo_Geologia_Aree_Esondabili_Criterio_Geomorfologico/MapServer/WmsServer							
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_12_Pendenze/MapServer/WmsServer	Piano AIB 12 Carta delle Pendenze	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_13_Esposizione/MapServer/WmsServer	Piano AIB 13 Carta dell'Esposizione	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_47_Livello_di_pericolosità/MapServer/WmsServer	Piano AIB 47 Carta del Livello di Pericolosità	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2011_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2011	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2010_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2010	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2009_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2009	WMS	1.3	INSPIRE	WMS	1.3	

o_2009_RegioneAbruzzo/MapServer/WmsServer							
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2007_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2007	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1954_IGM/MapServer/WmsServer	Volo Base IGM 1954	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_1975_Casmez/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 -75 (b/n)	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_Casmez_Colore/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 colore	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1975_ENEL/MapServer/WmsServer	Volo ENEL 1975	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1976_IGM/MapServer/WmsServer	Volo IGM 1975 - 1976	WMS	1.3	INSPIRE	WMS	1.3	

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1978_PHF/MapServer/WmsServer	Volo Zone Montane PHF 1978	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1979_Chieti_S_Salvo/MapServer/WmsServer	Volo SNAM 1979	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1982_1986_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 1981 – 1987	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1985_IGM/MapServer/WmsServer	Volo IGM 1985 - 1986	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1988_Alta_Quota/MapServer/WmsServer	Volo Italia Ripresa ad alta quota 1988/1989	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1991_IGM/MapServer/WmsServer	Volo IGM 1991	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1994_ITALIA/MapServer/WmsServer	Volo ITALIA 1994	WMS	1.3	INSPIRE	WMS	1.3	

o_1994_Italia/MapServer/WmsServer							
http://catasto.regione.abruzzo.it:6080/arcgis/services/GeoPiani_di_Volo/Piani_di_Volo_1996_PST/MapServer/WmsServer	Volo Parco Scientifico e Tecnologico d'Abruzzo 1996	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/GeoPiani_di_Volo/Piani_di_Volo_2001_2002_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2001 – 2002	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/GeoPiani_di_Volo/Piani_di_Volo_2004_2005_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2004 – 2005	WMS	1.3	INSPIRE	WMS	1.3	
http://catasto.regione.abruzzo.it:6080/arcgis/services/GeoPiani_di_Volo/Piani_di_Volo_2006_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2006	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/acque_interne_marine/MapServer/WMSServer	Acque interne e marine	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/acque_superficiali/MapServer/WMSServer	Acque superficiali	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/altimetria/MapServer/WMSServer	Altimetria	WMS	1.3	INSPIRE	WMS	1.3	

http://servizi.geo.regione.molise.it/arcgis/services/aree_faunistiche_venatorie/MapServer/WMServer	Aree Faunistico-Venatorie	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/attivita_turistico_culturale/MapServer/WMServer	Attività turistico ricreative - beni cultural	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Basi_cartografiche/MapServer/WMServer	Basi Cartografiche	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Basi_IGM/MapServer/WMServer	Basi IGM	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Limiti_ISTAT/MapServer/WMServer	Basi Territoriali	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/CTR_5000/MapServer/WMServer	Carta Tecnica Regionale in scala 1:5.000	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/CTR_10000/MapServer/WMServer	Carta Tecnica Regionale scala 1:10.000	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Catasto/MapServer/WMServer	Catasto	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Conservazione_natura/MapServer/WMServer	Conservazione Natura	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Fenom	Fenomeni Franosi	WMS	1.3	INSPIRE	WMS	1.3	

eni_franosi/MapServer/WMS Server							
http://servizi.geo.regione.molise.it/arcgis/services/Geologia/MapServer/WMSserver	Geologia	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Ortofotografico_Molise_2007/MapServer/WMSserver	Ortofoto	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Pericolosità_sismica/MapServer/WMSserver	Pericolosità Sismica	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Pertinenze_fluviali/MapServer/WMSserver	Pertinenze Fluviali	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Piani_di_bacino/MapServer/WMSserver	Piani di Bacino (PAI)	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Uso_del_Suolo/MapServer/WMSserver	Uso del Suolo	WMS	1.3	INSPIRE	WMS	1.3	
http://servizi.geo.regione.molise.it/arcgis/services/Viabilità_Teleatlas/MapServer/WMSserver	Viabilità	WMS	1.3	INSPIRE	WMS	1.3	
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms.Esrimap/WMS_CTR	Carta Tecnica Regionale	WMS	?	?	WMS	?	
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms	Confini Comunali	WMS	?	?	WMS	?	

s.Esrimap/WMS_ConfiniComunali							
http://iws.sit.puglia.it/ecwp/ecw_wms.dll?	Ortofoto, DTM, Uso del suolo	WMS	?	?	WMS	?	
http://rsdi.regione.basilicata.it/geoserver/wms	Vari tematismi	WMS	1.3	?	WMS	1.3	
http://rsdi.regione.basilicata.it/geoserver/wfs	Vari tematismi	WFS	1.1.0	?	WFS	1.1.0	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Ortofoto 10k - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Limiti Amministrativi Comuni Campania - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Province Regione Campania - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Province Regione Campania - GeoPortale Regione Campania Servizio WMS -Sfondo	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMSServer	Raster IGM 50.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMSServer	Raster CTR 25.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	

http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMSserver	Raster Carta Amministrativa 200.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMSserver	Raster Fisica 200.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	WMS	1.3	INSPIRE	WMS	1.3	
http://gis.provincia.rc.it/geoserver/ows	Provincia di Reggio Calabria tematismi vari	WMS	1.3	?	WMS	1.3	
http://88.41.139.86/scripts/wms_ccr_calabria.asp	Vari tematismi	WMS	1.3	?	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto_ATA20122013_15cm_Enna/MapServer/WMSserver	Ortofoto 15cm area urbana di Enna - Volo ATA 2012-2013	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/StradeEdifici_2000/MapServer/WMSserver	Carta Tecnica Numerica scala 1:2.000 - Strade ed Edifici	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Fogli_cartografati/MapServer/WMSserver	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Trapani_ata20122013/MapServer/WMSserver	Ortofoto 15cm area urbana di Trapani - Volo ATA 2012-2013	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto15cm_Palermo_ata20122013/MapServer/WMSserver	Ortofoto 15cm area urbana di Palermo -	WMS	1.3	INSPIRE	WMS	1.3	

ANE/Ortofoto14cm_Palermo_ata20122013/MapServer/WMServer	Volo ATA 2012-2013						
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Messina_ata20122013/MapServer/WMServer	Ortofoto 15cm area urbana di Messina - Volo ATA 2012-2013	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Ragusa_ata20122013/MapServer/WMServer	Ortofoto 15cm area urbana di Ragusa - Volo ATA 2012-2013	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Regimi_Normativi/MapServer/WMServer	Piano Paesaggistico delle Isole Egadi - Regimi Normativi	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Componenti_Paesaggio/MapServer/WMServer	Piano Paesaggistico delle Isole Egadi - Componenti del paesaggio	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico delle Isole Egadi - Beni paesaggistici	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto14cm_Messina_ata20122013/MapServer/WMServer	Ortofoto 15cm Area urbanizzata di Messina ATA 2012-2013 - WGS84 Web Mercatore	WMS	1.3	INSPIRE	WMS	1.3	

http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto_ata20122013_webmercator/MapServer/WMSServer	Ortofoto Regione Siciliana ATA 2012-2013 - WGS84 Web Mercatore	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico di Trapani - Ambito 1 - Componenti del paesaggio	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico di Trapani - Ambito 1 - Regimi normativi	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico di Trapani - Ambito 1 - Beni paesaggistici	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto_agea2010_webmercator/MapServer/WMSServer	Ortofoto Regione Siciliana AGEA 2010 - WGS84 / Pseudo-Mercator	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico delle Isole Pelagie - Beni paesaggistici	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico delle Isole Pelagie - Componenti del paesaggio	WMS	1.3	INSPIRE	WMS	1.3	

ver/WMSserver							
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Regimi_Normativi/MapServer/WMSserver	Piano Paesaggistico delle Isole Pelagie - Regimi normativi	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Regimi_Normativi/MapServer/WMSserver	Piano Paesaggistico di Siracusa - Regimi normativi	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Componenti_Paesaggio/MapServer/WMSserver	Piano Paesaggistico di Siracusa - Componenti del paesaggio	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Beni_Paesaggistici/MapServer/WMSserver	Piano Paesaggistico di Siracusa - Beni paesaggistici	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolosita_Agg_f33/MapServer/WMSserver	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Pericolosità da frana - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_Agg_f33/MapServer/WMSserver	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Dissesti - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_Agg_f33/MapServer/WMSserver	P.A.I. Sicilia -	WMS	1.3	INSPIRE	WMS	1.3	

it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_Agg_f33/MapServer/WMSServer	Aggiornamenti - Geomorfologia - Rischio da frana - UTM WGS84 33N						
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico di Agrigento - Regimi normativi	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico di Agrigento - Componenti del paesaggio	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico di Agrigento - Beni paesaggistici	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/BACINI_IDROGRAFICI_ENNA/MapServer/WMSServer	Bacini idrografici territorio provinciale Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_10000_f33/MapServer/WMSServer	CARTA dell'USO del SUOLO (CLC) della Regione Siciliana - scala 1:10.000 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_ReteEcologica_f33/MapServer/WMSServer	Carta della Rete Ecologica Siciliana - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	

http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/SIC_ZPS_f33/MapServer/WMServer	Siti di importanza comunitaria (SIC) e Zone di protezione Speciale (ZPS) - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/SIC_ZPS/MapServer/WMServer	Siti di importanza comunitaria (SIC) e Zone di protezione Speciale (ZPS) - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/PDG/PDG_BoschiResidui/MapServer/WMServer	Piano di Gestione Residui boschivi e zone umide dell'ennese-palermitano	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/Intervisibilita/MapServer/WMServer	Carta dell'intervisibilità del territorio della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://www.comune.agrigento.sitr.it/ArcGIS/services/Agrigento/Catasto/MapServer/WMServer?	Catasto Agrigento - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/VINCOLI_SISTEMA_ANTROPICO_AMBIENTALE_EN/MapServer/WMServer	Vincoli del Sistema Antropico-Ambientale della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMServer	Patrimonio Archeologico, Storico ed Architettonico della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.trapani.sitr.it/ArcGIS/services/Arche	Aree Archeologiche Trapani	WMS	1.3	INSPIRE	WMS	1.3	

ologia_trapani/MapServer/WMServer							
http://www.provincia.enna.it/ArcGIS/services/RETICOLO_IDROGRAFICO_ENNA/MapServer/WMServer	Reticolo Idrografico della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_bas	Carta Tecnica scala 1:10.000 - Comune di Acireale - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_catasto	Catasto Fabbricati e Terreni - Comune di Acireale - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_vincoli	Carta dei vincoli - Comune di Acireale - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_prg	Piano Regolatore Generale - Comune di Acireale - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.it/ArcGIS/services/CARTA_NATURA_TIPO_PAESAGGI/MapServer/WMServer	Carta Natura Tipi di Paesaggio della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.it/ArcGIS/services/CARTA_NATURA_UNITA_PAESAGGIO/MapServer/WMServer	Carta Natura Unità di Paesaggio della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.it/ArcGIS/services/LIMITI_AMMINISTRATIVI/MapServer/WMServer	Limiti amministrativi comunali della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	

http://www.provincia.enna.sitr.it/ArcGIS/services/BOSCHI_ENNA/MapServer/WMSServer	Boschi della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://151.8.208.34/cgi-bin/mapserv.exe?map=/ms4w/data/map/adrano_vincoli.map	Carta dei Vincoli - Comune di Adrano - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/PARCHI_E_RISERVE/MapServer/WMS Server	Parchi e Riserve della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Parchi_Riserve_f33/MapServer/WMSServer	Parchi e Riserve - Regione Sicilia - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Toponimi_IGM25000_f33/MapServer/WMSServer	Toponimi IGM 1:25.000 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.trapani.sitr.it/ArcGIS/services/Aree_protette_WGS84/MapServer/WMSServer	Aree Protette Provincia di Trapani - UTM WGS84	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/ISTAT_LimitiAmministrativi_2011/MapServer/WMSServer	Limiti Amministrativi 2011 ISTAT - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_DLG_S_227_01/MapServer/WMSServer	Carta forestale regionale siciliana	WMS	1.3	INSPIRE	WMS	1.3	

http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_LR_19_96/MapServer/WMSServer	Carta forestale regionale siciliana	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CATEGORIE_FORESTALI/MapServer/WMSServer	Carta forestale regionale siciliana	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CLASSES_INVENTARIALI/MapServer/WMSServer	Carta forestale regionale siciliana	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_AREE_ECOLOGICAMENTE_OMOGENEE/MapServer/WMSServer	Aree ecologicamente omogenee	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_VINCOLO_IDROGEOLOGICO/MapServer/WMSServer	Vincolo Idrogeologico	WMS	1.3	INSPIRE	WMS	1.3	
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_BOSCHI_VETUSTI/MapServer/WMSServer	Boschi vetusti	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/SIC_ZPS/MapServer/WMSServer	Siti di importanza comunitaria (SIC) e Zone di protezione speciale (ZPS) nella Regione Sicilia - (coord. UTM-WGS84 fuso 33)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ImpBirdAreas/MapServer/WMS	IBA - Important Bird Area, aree importanti per gli uccelli (coord.	WMS	1.3	INSPIRE	WMS	1.3	

erver	UTM-WGS84 fuso 33)						
http://www.provincia.agrigento.sitr.it/ArcGIS/services/RD3267idrogeol/MapServer/WMSsever	Vincolo idrogeologico ex R.D. 3267 del 1923 - provincia AG (coord. UTM-WGS84 fuso 33)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ComuniSicilia/MapServer/WMSsever	Territori comuni della Sicilia (coord. UTM-WGS84 fuso 33)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/IGM50K/MapServer/WMSsever	Raster - Cartografia IGMI 1:50000 del territorio della Provincia di Agrigento (coord. UTM-WGS84 fuso 33)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMSsever	Aree di interesse paesaggistico della Provincia di Enna	WMS	1.3	INSPIRE	WMS	1.3	
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Sismicita_storica_wgs84/MapServer/WMSsever	Sismicità storica - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	WMS	1.3	INSPIRE	WMS	1.3	
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Geologia_Faglie_wgs84/MapServer/WMSsever	Geologia e faglie - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	WMS	1.3	INSPIRE	WMS	1.3	
http://www.provincia.trapani.sitr.it/ArcGIS/rest/services/U	Uso del suolo Aree "Natura 2000"	WMS	1.3	INSPIRE	WMS	1.3	

so_suolo_natura_2000_wms/MapServer	Provincia di Trapani						
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_AGG-2008_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/IGM_25000_Raster_f33/MapServer/WMSserver	IGM 1:25.000 Raster - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - Raster B/N - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_AGG-2008_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - Raster B/N - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Quickbird_2006-2007_f33/MapServer/WMSserver	Immagini satellitari Quickbird 2006-2007 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/PRG_NODI_SITR_f33/MapServer/WMSserver	Piani Regolatori Generali - Nodi Comunali SITR - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_f33/MapServer/WMSserver	P.A.I. Sicilia - Geomorfologia - Dissesti - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	

http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolosita_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Pericolosità da frana - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Rischio da frana - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_SitiAttenzione_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Siti Attenzione - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Rischio_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Rischio Idraulico - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Pericolosita_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Pericolosità Idraulica - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_SitiAttenzione_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Siti Attenzione - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Esondazione_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Esondazione - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_IT2000_f33/MapServer/WMServer	Ortofoto IT2000 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	

http://map.sitr.regione.sicilia.it/ArcGIS/services/IGM_50000_Raster/MapServer/WMSServer	IGM 1:50.000 Raster B/N - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_LimitiAmministrativi_f33/MapServer/WMSServer	Limiti Amministrativi C.T.R. scala 1:10.000 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_ATA20072008_f33/MapServer/WMSServer	Ortofoto ATA 2007-2008 - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_Natura_f33/MapServer/WMSServer	Carta Natura - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_f33/MapServer/WMSServer	Carta dell' uso dei suoli - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CTN_2000_Raster/MapServer/WMSServer	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - GAUSS BOAGA	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTN_2000_Raster_f33/MapServer/WMSServer	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - UTM WGS84 33N	WMS	1.3	INSPIRE	WMS	1.3	
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Fogli_cartografati/MapServer/WFS	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	

tp://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Numeri_Civici/GeoDataServer/WFSServer	Carta Tecnica Numerica scala 1:2.000 - Numeri Civici - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Trapani - Ambito 1 - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Pelagie - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Egadi - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Siracusa - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Agrigento - Servizio WFS	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ImpBirdAreas/MapServer/WFSServer	IBA - Important Bird Area, aree importanti per gli uccelli (coord. UTM-WGS84 fuso 33)	WFS	1.1.0	INSPIRE	WFS	1.1.0	
http://www.provincia.agrigento.sitr.it/ArcGIS/services/RD3	Vincolo idrogeologico ex R.D. 3267 del 1923 -	WFS	1.1.0	INSPIRE	WFS	1.1.0	

267idrogeol/MapServer/WFS Server	provincia AG (coord. UTM-WGS84 fuso 33)						
http://webgis.regione.sardegna.it/geoserver/ows	Vari tematismi	WMS	1.3	?	WMS	1.3	
http://webgis.regione.sardegna.it/geoserver/wfs	Vari tematismi	WFS	1.1.0	?	WFS	1.1.0	
http://www.cartografia.servizi.it/arcgis/services/wms/ctr_wms/MapServer/WMSServer	Carta Tecnica Regionale 1:10000 aggiornata dai Database Topografici - WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ctr_wms/MapServer/WMSServer	Carta Tecnica Regionale 1:10000 ed. 1980-94 servizio WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/dusaf21/MapServer/WMSServer	DUSAF 2.1 - Uso suolo 2007 - Servizio di mappa WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMSServer	Ortofoto AGEA 2012 (WMS)	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.regione.lombardia.it/ArcGISIT2/services/PGT/tav_previsioni_b/MapServer/WMSServer	PGT - Tavola delle Previsioni di Piano - WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.servizi.it/arcgis/services/ambiente/Rete_e_infrastrutture_del_sottosuolo_WMS/MapServer/WMSServer	Reti e infrastrutture del sottosuolo - WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	

http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/fisica_wms/MapServer/WMServer	Mappa fisica - Servizio di Mappa WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/politica_wms/MapServe	Mappa politica - Servizio di Mappa WMS	WMS	1.3	INSPIRE	1.3	INSPIRE	
https://www.dati.lombardia.it/resource/4gej-rwsm.json	Mappe Negozi e Locali Storici	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/iu2c-9p5j.json	Mappa musei	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/hi38-chs9?method=export&format=Shapefile	Mappa Distretti Urbani del Commercio Riconosciuti da Regione Lombardia	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/u8qe-3an8.json	Mappa fattorie didattiche lombarde	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/jayn-vsw3.json	Mappa Mercati Storici	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/drv3-2qjn.json	Mappa Registro Regionale Sonde Geotermiche	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/3d7p-g83c.json	Mappa elenco regionale degli agriturismo	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/h662-8bn8.json	Mappa strutture ricettive alberghiere e extra-alberghiere	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/dia7-79gf.json	Mappa punti di interesse progetto Garda bresciano	Endpoint SODA API	-	-	-	-	

https://www.dati.lombardia.it/api/geospatial/d9mg-gia6?method=export&format=Shapefile	Comune Bergamo - Mappa ZTL	SHP	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/4bb9-k356?method=export&format=Shapefile	Mappa classificazione sismica dei comuni lombardi	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/8ux9-ue3c.json	Mappa Stazioni Meteorologiche	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/efh9-eyd6?method=export&format=Shapefile	Limiti amministrativi 2014 delle province di Regione Lombardia	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/bf55-y6y4.json	Mappa istituzioni scolastiche e scuole statali	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Stradario e Fabbricati	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/6nzq-m2cw.json	01	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/6y9j-zbn6.json	Mappa punti di interesse progetto Villa Reale Monza	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/78qi-2hyx.json	Agri-Lecco	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/562w-jc3b?method=export&format=Shapefile	CM Tirano numeri civici	SHP	-	-	-	-	

https://www.dati.lombardia.it/api/geospatial/kq4w-c83t?method=export&format=Shapefile	Aree omogenee per rischio neve	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/tdqc-xh3g.json	CM Tirano Civici Fabbricati Stradario	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/b794-fvxp?method=export&format=Shapefile	Aree omogenee per rischi naturali	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/72wv-3r68.json	Mappa rete monitoraggio corsi acqua	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/ds2z-s86c?method=export&format=Shapefile	Aree omogenee rischio valanghe	SHP	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/rn86-mwpx?method=export&format=Shapefile	Parchi Seveso Comuni	SHP	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Toponomastica completa	SHP	-	-	-	-	
https://www.dati.lombardia.it/api/geospatial/xs58-d3hi?method=export&format=Shapefile	Aree omogenee per rischio incendi boschivi	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/wx72-53nz.json	Mappa rete monitoraggio laghi	Endpoint SODA API	-	-	-	-	
https://www.dati.lombardia.it/resource/7u4b-rc7c.json	COMUNE PIOLTELLO MAPPA SERVIZIO BIKE	Endpoint SODA API	-	-	-	-	

	SHARING						
https://www.dati.lombardia.it/api/geospatial/hxvd-52zt?method=export&format=Shapefile	PROVINCIA MONZA BRIANZA Beni culturali	SHP	-	-	-	-	
https://www.dati.lombardia.it/resource/vqd8-hab4.json	Musei progetto garda bresciano	Endpoint SODA API	-	-	-	-	

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Biodiversità - Habitat Rete Natura 2000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.sit.comune.parma.it/cgi-bin/files/2013/shp/fabbri.zip	Fabbricati	YES (ED50 UTM32N->WGS 84 UTM 32N)	Client-side API	WFS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMSServer	Ortofoto AGEA 2012	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/dusaf21/MapServer/WMSServer	DUSAF 2.1 - Uso suolo 2007	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IBA.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/Atlante_desertificazione.map	Atlante nazionale delle aree a rischio di desertificazione	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Bacini_idrografici.map	Bacini idrografici principali e secondari	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_ec	Carta ecopedologica d'Italia	NO	Client-side API	WMS

opedologica.map				
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_geologica.map	Carta geologica d'Italia	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Catalogo_Frane.map	Catalogo frane	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Classificazione_sismica_2012.map	Classificazione sismica dei comuni italiani al 2012	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Edifici.map	Edificato dei capoluoghi di provincia	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_ferroviana.map	Infrastrutture ferroviarie	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_stradale.map	Infrastrutture stradali	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/ortofoto_colore_12.map	Ortofoto a colori anno 2012 con relative date del volo	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/ortofoto_colore_sisma_aquila.map	Ortofoto a colori sisma L'Aquila con relative date del volo - Aprile 2009	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_pericolosita.map	PAI - Pericolosità idrogeologica	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_risc	PAI - Rischio idrogeologico	NO	Client-side API	WMS

hio.map				
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosita_sismica_002.map	Pericolosita' sismica di riferimento a passo 0,02 gradi	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosita_sismica_005.map	Pericolosita' sismica di riferimento a passo 0,05 gradi	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Aste_fluviali.map	Reticolo idrografico	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/EUAP.map	Siti protetti - VI Elenco ufficiale aree protette (EUAP)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map	Uso del suolo - Corine Land	NO	Client-side API	WMS

=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006.map	Cover anno 2006			
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2000_IVliv.map	Uso del suolo - Corine Land Cover anno 2000 IV Livello	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006_IVliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	NO	Client-side API	WMS
http://wms.pcn.minambiente.it/wcs/DES_SAL_ACQUE	Atlante della desertificazione - Acquiferi potenzialmente salini	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_AREE	Atlante della desertificazione - Aree protette	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_URBANO	Atlante della desertificazione - Aree urbane e principali infrastrutture	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_NDVI	Atlante della desertificazione - Indice di vegetazione normalizzato (Normalized Difference Vegetation Index - NDVI)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_PASCOLI	Atlante della desertificazione - Intensita' di Pascolamento	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_AGROSEM	Atlante della desertificazione - Misure agroambientali su seminativi	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_SIC_SECCO	Atlante della desertificazione - Numero medio annuo di giorni di suolo secco	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_RILLS	Atlante della desertificazione - Presenza di fenomeni di erosione	NO	Client-side API	WFS

http://wms.pcn.minambiente.it/wcs/DES_SIC_POTEN	Atlante della desertificazione - Siccità potenziale	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/wcs/DES_ERO_SUOLI	Atlante della desertificazione - Suoli sottili su forti pendenze	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IBA.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WFS/Atlante_desertificazione.map	Atlante nazionale delle aree a rischio di desertificazione	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Bacini_idrografici.map	Bacini idrografici principali e secondari	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_ecopedologica.map	Carta ecopedologica d'Italia	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_geologica.map	Carta geologica d'Italia	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Catalogo_Frane.map	Catalogo frane	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Classificazione_sismica_2012.map	Classificazione sismica dei comuni italiani al 2012	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Edifici.map	Edificato dei capoluoghi di provincia	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Rete_ferroviaria.map	Infrastrutture ferroviarie	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Rete_stradale.map	Infrastrutture stradali	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_pericolosita.map	PAI - Pericolosità idrogeologica	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_rischio.map	PAI - Rischio idrogeologico	NO	Client-side API	WFS

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosita_sismica_002.map	Pericolosita' sismica di riferimento a passo 0,02 gradi	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosita_sismica_005.map	Pericolosita' sismica di riferimento a passo 0,05 gradi	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Aste_fluviali.map	Reticolo idrografico	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/EUAP.map	Siti protetti - VI Elenco ufficiale aree protette (EUAP)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006.map	Uso del suolo - Corine Land Cover anno 2006	NO	Client-side API	WFS
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000_I	Uso del suolo - Corine Land Cover anno 2000 IV Livello	NO	Client-side API	WFS

Vliv.map				
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006_I_Vliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	NO	Client-side API	WFS
http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WMS/Server	Toponomastica	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WMS/Server	Idrografia	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WMS/Server	Viabilità	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/siat/services/OGC/CTP2013/ImageServer/WMS/Server	Carta Tecnica Provinciale	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/arcgis/services/Soleggiamento_DSM_DTM/MapServer/WMS/Server	LIDAR Soleggiamento DSM e DTM	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WMS/Server	Ambiti Statistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WFS/Server	Toponomastica	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WFS/Server	Idrografia	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WFS/Server	Viabilità	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WFS/Server	Ambiti Statistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://geoservices.provincia.tn.it/wfs/cl2	Curve di livello grezze	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS

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http://geoservices.provincia.tn.it/wfs/cl2Ds	Curve di livello smussate	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://sdi.provincia.bz.it/geoserver/wms	Vari tematismi	NO	Client-side API	WMS
http://sdi.provincia.bz.it/geoserver/wms	Vari tematismi	NO	Client-side API	WFS
http://idt.regione.veneto.it/wms_c0107_reteviaria/service.svc/get	Rete Viaria	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c04_acqua/service.svc/get	c04010240012_Elementoldric o	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c04_acqua/service.svc/get	c0401031_Laghi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0501_litologia/service.svc/get	c0501031_LitologiaReg	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0505_geositi/service.svc/get	c0505013_Geositi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0506021_copsuolo/service.svc/get	c0506021_CopSuolo	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0507021_cartasuoliveneto/service.svc/get	c0507021_CartaSuoliVeneto	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0604011_tipihabitat/service.svc/get	c0604011_TipiHabitat	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605011_CategForestali	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605021_CategForestaliCI	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605081_BoschiProtezione	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0801021_CentriStoriciAtl	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0802011_VilleVenete	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/wms_c1101_	c1101011_SIC	YES (ROMA40/OVEST-	Client-side API	WMS

tutele/service.svc/get		>WGS 84 UTM 32N)		
http://idt.regione.veneto.it/wms_c1101_tutele/service.svc/get	c1101021_ZPS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/WMS_c1101_Tutele/service.svc/get	c1101081_TutPaesIntRegCPr	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://idt.regione.veneto.it/WMS_c1101_Tutele/service.svc/get	c1101091_TutPaesIntRegCEL	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://serviziogc.regione.fvg.it/geoserver/wms	Vari tematismi	NO	Client-side API	WMS
http://serviziogc.regione.fvg.it/geoserver/wfs	Vari tematismi	NO	Client-side API	WFS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsortoregp/wms_ortoregp2010?	Ortofoto Piemonte	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimslimmwms/wms_limitiAmm?	Limiti amministrativi	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsidrowms/wms_idro?	Idrografia	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/gsareprot/rp-01/areeprotwms/wms_gsareprot_1?	Aree Protette e Rete Natura 2000	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/arevincwms/wms_ree_vincoli?	Aree Vincolate	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/punvincwms/wms_benivigliano?	Beni Vincolati	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondo_cart_rif_	BDTRE - Base cartografica di riferimento - 2015 - WMS B/N (Vettoriali)	NO	Client-side API	WMS

bn?				
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondo_cart_rif?	BDTRE - Base cartografica di riferimento - 2015 - WMS Colori (Vettoriali)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/ginevra/rp-01/ngvwms/wms_ngv_1?	Viabilità e reti di trasporto	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_cds?	Consumo di Suolo	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/urbasv/rp-01/urbawms/urba_prgc_wms	Mosaicatura Piani Regolatori	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/disspaiwms/wms_vtdifsuolo_dissesti_pai?	Dissesti PAI	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/fascpaiwms/wms_vtdifsuolo_fasce_fluviali?	Fasce Fluviali	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/rmepaiwms/wms_vtdifsuolo_ree_rme?	Aree RME	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/incendiwms/wms_vtmonfor_incendi_boschivi?	Incendi boschivi	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/interventipsrwms/wms_vtmonfor_interventi_psr?	Piano di Sviluppo Rurale - Interventi	NO	Client-side API	WMS

http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/cartaforwms/wms_vtmonfor_cartafor?	PFT - Copertura forestale e altri usi del suolo	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/pisifwms/wms_vtmonfor_pisif?	Piani di Sistemazione Idraulico- forestale (PISIF)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/popsemewms/wms_vtmonfor_popseme?	Popolamenti da seme	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimspprwms/wms_tav4_ppr?	TavolaP4 piano paesaggistico	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/anagamb/rp-01/ulowmspan/wms_unita_locali_operative?	Anagrafe dei soggetti ambientali - Unità Locali Operative	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/ambpat/rp-01/rifwmspub/wms_impianti_rifiuti_autorizzati?	Impianti autorizzati al recupero e/o smaltimento di rifiuti	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/aera/rp-01/aerawms/wms_aera_emissioni_puntuali?	Inventario Emissioni Puntuali in atmosfera (AERA ALCOTRA)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/aera/rp-01/aerawms/wms_aera_emissioni_tot?	Inventario Emissioni Totali in atmosfera (AERA ALCOTRA)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/arbo/rp-01/arbowmspub/wms_siar_compat_territ?	Attività soggette a normativa Seveso - Stabilimenti e Elementi territoriali vulnerabili	NO	Client-side API	WMS

http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/sentieriwms/wms_vtmonfor_sentieri?	Rete regionale dei percorsi escursionistici	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wms_corpi_idrici_wfd?	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMS (Raster 1:10.000)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMTS (Raster 1:10.000)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 - WMS (Raster 1:10.000)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 - WMTS (Raster 1:10.000)	NO	Client-side API	WMS
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsraffgnsswfs/wfs_vertici_rete?	Vertici di Rete (raffittimento della rete IGM95 e GNSS)	NO	Client-side API	WFS
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wfs_corpi_idrici_wfd?	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	NO	Client-side API	WFS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTERNE/28.asp	Servizio di visualizzazione WMS del Dataset: Bacini Idrografici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1400.asp	Servizio di visualizzazione WMS del Dataset: Aree Protette e relativi Piani - ed. 2011	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it	Servizio di visualizzazione	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

t/mapfiles/repertoriocartografico/ACQUE_INTERNE/626.asp	WMS del Dataset: Reticolo Idrografico e Nodi Idrografici sc. 1:10000			
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTERNE/436.asp	Servizio di visualizzazione WMS del Dataset: Laghi sc 1:5000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/39.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso del Suolo sc. 1:25000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/5.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso e Copertura del Suolo sc. 1:100000 (COR.IN.E.)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1415.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso del Suolo sc. 1:10000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1371.asp	Servizio di visualizzazione WMS del Dataset: Acclività - 7 classi sc. 1:10000 - ed. 2007	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/272.asp	Servizio di visualizzazione WMS del Dataset: Foreste Regionali - ex demaniali sc. 1:10000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/750.asp	Servizio di visualizzazione WMS del Dataset: Zone rilevanti per la salvaguardia dei siti di interesse comunitario della Rete Natura 2000 e Misure di Conservazione valide per i SIC Alpini Liguri	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/STRUT	Servizio di visualizzazione WMS del Dataset: Edifici e	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

TURE/854.asp	Costruzioni - livelli della CTR sc. 1:5000 - 1990/2006			
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1007.asp	Servizio di visualizzazione WMS del Dataset: Sondaggi e Stratigrafie	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1205.asp	Servizio di visualizzazione WMS del Dataset: Interventi di difesa suolo sc. 1:5000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1246.asp	Servizio di visualizzazione WMS del Dataset: Zone Sismiche - D.G.R. 1308/2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1478.asp	Servizio di visualizzazione WMS del Dataset: PAI Piano Assetto Idrogeologico del F. Po - Dissesti e Vincoli	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1015.asp	Servizio di visualizzazione WMS del Dataset: Carta delle Criticità ad Uso di Protezione Civile sc. 1:25000 - D.G.R. 746/2007	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/755.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Biogeografia e Bioclim	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Habitat Rete Natura 2000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1182.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Specie ed Altri Elementi Rilevanti	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/555.asp	Servizio di visualizzazione WMS del Dataset: Carta Geologica Regionale con	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

	elementi di Geomorfologia (CGR) sc. 1:25000 - tav. 229.4 - Savona			
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1577.asp	Servizio di visualizzazione WMS del Dataset: Uso del Suolo sc. 1:10000 - ed. 2012	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1572.asp	Servizio di visualizzazione WMS del Dataset: Zone a Protezione Speciale (ZPS) - DGR n.650/2012	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1584.asp	Servizio di visualizzazione WMS del Dataset: Esposizione dei versanti LIDAR - 9 classi sc. 1:5000 - ed. 2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1363.map	Servizio di visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1593.map	Servizio di visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000 - ed. 2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1281.map	Servizio di visualizzazione WMS del Dataset: Remove - Rete di Monitoraggio dei Versanti sc.1:10000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1626.map	Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità alluvionale - Direttiva Alluvioni 2007/60/CE e Dlgs 49/2010	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1627.map	Servizio di visualizzazione WMS del Dataset: Classi di rischio alluvionale ed elementi territoriali esposti - Direttiva Alluvioni 2007/60/CE e D.lgs 49/2010	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/GEOS CIENTIFICHE/492.map	Servizio di visualizzazione WMS del Dataset: Inventario dei Fenomeni Franosi sc. 1:10000 - Progetto IFFI	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1686.map	Servizio di visualizzazione WMS del Dataset: P.T.A. 2014 - Registro delle aree protette	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1693.map	Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità da inondazioni marine - Direttiva Alluvioni 2007/60/CE	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1698.map	Servizio di visualizzazione WMS del Dataset: Aree inondate eventi alluvionali ottobre-novembre 2014 - DGR59/2015	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://mapserver.gis.umn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1702.map	Servizio di visualizzazione WMS del Dataset: Land Cover sc. 1:10000 - ed. 2012	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull -	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

	DBTR2013			
http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr	Database Topografico Regionale	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008	Database Topografico Regionale 2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_map	Database Topografico Regionale 2008 vista combinata	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/ambiti_amministrativi	Ambiti Amministrativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/agea2011_rgb	Ortofoto AGEA 2011 RGB	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/agea2011_ir	Ortofoto AGEA 2011 Infrarossi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/agea2008_rgb	Ortofoto multifunzione EMILIA-ROMAGNA - AGEA 2008 RGB	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/agea2008_ir	Ortofoto multifunzione EMILIA-ROMAGNA - AGEA 2008 Infrarossi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://servizigis.regione.emilia-romagna.it/wms/dbtr2008_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/ctr5	Carta Tecnica Regionale 1:5.000 - Edizione 1998	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/ctr25	Carta Tecnica Regionale 1:25.000 - Edizione 1998-2000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/ctr250	Carta Topografica Regionale 1:250.000 - Edizione del 1994	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/ctrmultiscala	CTR - Multiscala	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/carta_storica_regionale_1853	Carta Storica Regionale 1:50.000 - Edizione del 1999	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/geologia10k	Carta geologica 1:10.000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/geologia50k	Carta geologica 1:50.000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/geologia_sintesi	Carta geologica di sintesi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/paesaggio_geologico	Paesaggio geologico	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/suoli	Tematismi dei suoli e carte derivate	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/areeprotette_natura2000	Aree Protette e Natura 2000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/carta_della_vegetazione	Carta della vegetazione	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://servizigis.regione.emilia-romagna.it/wms/tematismi_numerici_ctr_10k	Tematismi numerici tratti dalla CTR 10.000 - 1988	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wms/uso_del_suolo	Uso del suolo	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizigis.regione.emilia-romagna.it/wfs/carta_della_vegetazione	Carta della vegetazione (WFS)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://servizigis.regione.emilia-romagna.it/wfs/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013 (WFS)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://servizigis.regione.emilia-romagna.it/wfs/uso_del_suolo	Uso del suolo (WFS)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://webgispcn.autoritabacino.marche.it/cgi-bin/mapserv.exe?map=/ms_ogc/service/wms_pai_adbmarche.map	PAI	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_scastore&	CASTORE_WMS	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sofc&	Geoscopio_wms OFC	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sfotogrammi&map_resolution=91&	Geoscopio_wms FOTOTECA	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_scatasto&map_resolution=91&	Geoscopio_wms CATASTO	NO	Client-side API	WMS

http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sctr&map_resolution=91&	Geoscopio_wms CTR	NO	Client-side API	WMS
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbtm_rt.qgs	Regione Toscana - DBTM_DataBaseTopografico Multiscala	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_stopogr&	Geoscopio_wms BASI TOPOGRAFICHE	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sambamm&	Geoscopio_wms AMBITI_AMMINISTRATIVI	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sambprogr&	Geoscopio_wms AMBITI_DI_PROGRAMMAZIONE	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sucs&map_resolution=91&	Geoscopio_wms USO_E_COPERTURA_DELSUOLO	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_ssentieristica&map_resolution=91&	Geoscopio_wms SENTIERISTICA	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sidrogr&map_resolution=91&	Geoscopio_wms IDROGRAFIA	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_spiapae&	Geoscopio_wms PIANO_PAESAGGISTICO	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm_sgeologia&	Geoscopio_wms GEOLOGIA_INDAGINI_GEOTEMATICHE_E_MINERARIE	NO	Client-side API	WMS
http://www502.regione.toscana.it/geoscopio_qg/cgi-	Regione Toscana - DB_GEOLOGICO	NO	Client-side API	WMS

bin/qgis_mapserv?map=dbgeologico_rt.qgs				
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm sarprot&map_resolution=91&	Geoscopio_wms AREE_PROTETTE	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm speridr&	Geoscopio_wms RISCHIO IDROGEOLOGICO	NO	Client-side API	WMS
http://www502.regione.toscana.it/geosc opio_qg/cgi-bin/qgis_mapserv?map=mappe_acustiche_rt.qgs	Regione Toscana - MAPPE_ACUSTICHE	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm spedologia&map_resolution=91&	Geoscopio_wms PEDOLOGIA	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm sidrogeologico&	Geoscopio_wms VINCOLO IDROGEOLOGICO	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm stoponomastica&	Geoscopio_wms TOPONOMASTICA	NO	Client-side API	WMS
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wm sterritorimontani&	Geoscopio_wms TERRITORI_MONTANI	NO	Client-side API	WMS
http://www502.regione.toscana.it/geosc opio_qg/cgi-bin/qgis_mapserv?map=dbusosuolostorico_rt.qgs	Regione Toscana - Usi del suolo e rendite catastali nella Toscana Granducale (1835)	NO	Client-side API	WMS
http://www502.regione.toscana.it/geosc opio_qg/cgi-bin/qgis_mapserv?map=dbsedimi_rt.qgs	Regione Toscana - Periodizzazione della crescita urbana (1897-2007)	NO	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/servi	Carta Tecnica Regionale	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

ces/public/CTR_10K_WGS84/MapServer/WMServer	formato raster a scala 1:10.000 WGS 84			
http://geo.umbriaterritorio.it/arcgis/services/public/CTR_5K_WGS84/MapServer/WMServer	Carta Tecnica Regionale formato raster a scala 1:5.000 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/CATASTO_5K_WGS84/MapServer/WMServer	Catasto Regionale formato raster a scala 1:5.000 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ECOGRAFICO_CATASTALE1_WGS84/MapServer/WMServer	Ecografico Catastale Regionale WGS 84 - Grafo tratti stradali, Fabbricati, Numeri civici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2011_WGS84/MapServer/WMServer	Ortofoto Umbria 2011 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2008_WGS84/MapServer/WMServer	Ortofoto Umbria 2008 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2005_WGS84/MapServer/WMServer	Ortofoto Umbria 2005 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_2000_WGS84/MapServer/WMServer	Ortofoto Umbria 2000 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geo.umbriaterritorio.it/arcgis/services/public/ORTOFOTO_1997_WGS84/MapServer/WMServer	Ortofoto Umbria 1997 WGS 84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://webgis.agriforeste.regione.umbria.it/cgi-bin/mapservwms	Cartografia agriforeste	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://geocatalogo.regione.abruzzo.it/erdas-iws/ogc/wms/	Mosaici UTM-WGS84	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_	SISTEMA DELLE CONOSCENZE CONDIVISE - Armatura Urbana	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

Condivise/Sistema_delle_Conoscenze_Co ndivise_Armatura_Urbana_e_Territoriale /MapServer/WmsServer	Territoriale			
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co
ndivise/Sistema_delle_Conoscenze_Co
ndivise_Carta_dei_Rischi/MapServer/Wm
sServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co ndivise/Sistema_delle_Conoscenze_Co ndivise_Carta_dei_Rischi/MapServer/Wm sServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Rischi	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co
ndivise/Sistema_delle_Conoscenze_Co
ndivise_Carta_dei_Valori/MapServer/Wm
sServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co ndivise/Sistema_delle_Conoscenze_Co ndivise_Carta_dei_Valori/MapServer/Wm sServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Valori	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co
ndivise/Sistema_delle_Conoscenze_Co
ndivise_Carta_dei_Vincoli/MapServer/W
msServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co ndivise/Sistema_delle_Conoscenze_Co ndivise_Carta_dei_Vincoli/MapServer/W msServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Vincoli	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co
ndivise/Sistema_delle_Conoscenze_Co
ndivise_Carta_del_Degrado_e_Abbandon
o/MapServer/WmsServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Co ndivise/Sistema_delle_Conoscenze_Co ndivise_Carta_del_Degrado_e_Abbandon o/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Degrado e Abbandono	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pia
nificazione_e_Vincoli_Aree_Protette/Ma
pServer/WmsServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pia nificazione_e_Vincoli_Aree_Protette/Ma pServer/WmsServer	Aree protette	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
<a href="http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pia
nificazione_e_Vincoli_PAI_AreeRischio/M
apServer/WmsServer">http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pia nificazione_e_Vincoli_PAI_AreeRischio/M apServer/WmsServer	Piano per l'assetto Idrogeologico PAI - Carta del Rischio	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pia	Piano per l'assetto Idrogeologico PAI - Carta della	YES (ROMA40/OVEST- >WGS 84 UTM 32N)	Client-side API	WMS

nificazione_e_Vincoli_PAI_pericolosita/MapServer/WmsServer	pericolosità			
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Piano_Regionale_Paesistico_2004/MapServer/WmsServer	Piano Regionale Paesistico 2004	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_PSDA_Pericolosita/MapServer/WmsServer	PSDA Piano Stralcio Difesa Dalle Alluvioni	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Vincolo_Idrogeologico_RD30_1923/MapServer/WmsServer	Carta del Vincolo Idrogeologico	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Uso_Suolo_Edizione_2000/MapServer/WmsServer	Carta dell'Uso del Suolo ed. 2000	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Geobotanica_Habitat/MapServer/WmsServer	Cartografia geobotanica dei SIC al di fuori delle aree protette: Carta degli habitat.	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Tip_For_Categorie_Tipologie_Forestali/MapServer/WmsServer	Carta Tipologico-Forestale della Regione Abruzzo	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Potenziale/MapServer/WmsServer	Rischio erosione potenziale dei suoli	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia	Carta dei suoli della Regione Abruzzo - ARSSA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

ia_Pedologia/Agricoltura_Uso_Suolo_Suoli_e_Paesaggi_Abruzzo/MapServer/WmsServer				
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Reale/MapServer/WmsServer	Rischio erosione reale dei suoli	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Difesa_Suolo_Geologia_Aree_Esondabili_Criterio_Geomorfologico/MapServer/WmsServer	Carta Aree Esondabili	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_12_Pendenze/MapServer/WmsServer	Piano AIB 12 Carta delle Pendenze	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_13_Esposizione/MapServer/WmsServer	Piano AIB 13 Carta dell'Esposizione	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_47_Livello_di_pericolosità/MapServer/WmsServer	Piano AIB 47 Carta del Livello di Pericolosità	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2011_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2011	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2010_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2010	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2009_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2009	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2007_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2007	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1954_IGM/MapServer/WmsServer	Volo Base IGM 1954	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_1975_Casmez/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 -75 (b/n)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_Casmez_Colore/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 colore	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1975_ENEL/MapServer/WmsServer	Volo ENEL 1975	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1976_IGM/MapServer/WmsServer	Volo IGM 1975 - 1976	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1978_PHF/MapServer/WmsServer	Volo Zone Montane PHF 1978	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1979_Chieti_S_Salvo/MapServer/WmsServer	Volo SNAM 1979	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1982_1986_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 1981 – 1987	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1985_IGM/MapServer/WmsServer	Volo IGM 1985 - 1986	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1988_Alta_Quota/MapServer/WmsServer	Volo Italia Ripresa ad alta quota 1988/1989	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1991_IGM/MapServer/WmsServer	Volo IGM 1991	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1994_Italia/MapServer/WmsServer	Volo ITALIA 1994	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1996_PST/MapServer/WmsServer	Volo Parco Scientifico e Tecnologico d’Abruzzo 1996	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2001_2002_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2001 – 2002	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2004_2005_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2004 – 2005	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2006_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2006	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/acque_interne_marine/MapServer/WMServer	Acque interne e marine	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/acque_superficiali/MapServer/WMServer	Acque superficiali	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/altimetria/MapServer/WMServer	Altimetria	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/aree_faunistiche_venatorie/MapServer/WMServer	Aree Faunistico-Venatorie	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/attivita_turistico_culturale/MapServer/WMServer	Attività turistico ricreative - beni cultural	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Basi_cartografiche/MapServer/WMServer	Basi Cartografiche	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Basi_IGM/MapServer/WMServer	Basi IGM	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Limiti_ISTAT/MapServer/WMServer	Basi Territoriali	NO	Client-side API	WMS

http://servizi.geo.regione.molise.it/arcgis/services/CTR_5000/MapServer/WMSserver	Carta Tecnica Regionale in scala 1:5.000	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/CTR_10000/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Catasto/MapServer/WMSserver	Catasto	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Conservazione_natura/MapServer/WMSserver	Conservazione Natura	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Fenomeni_franosi/MapServer/WMSserver	Fenomeni Franosi	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Geologia/MapServer/WMSserver	Geologia	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Ortofoto_Molise_2007/MapServer/WMSserver	Ortofoto	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Pericolosita_sismica/MapServer/WMSserver	Pericolosità Sismica	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Pertinenze_fluviali/MapServer/WMSserver	Pertinenze Fluviali	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Piani_di_bacino/MapServer/WMSserver	Piani di Bacino (PAI)	NO	Client-side API	WMS
http://servizi.geo.regione.molise.it/arcgis/services/Uso_suolo/MapServer/WMSserver	Uso del Suolo	NO	Client-side API	WMS

ver				
http://servizi.geo.regione.molise.it/arcgis/services/Viabilita_Teleatlas/MapServer/WMSserver	Viabilità	NO	Client-side API	WMS
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms.Esrimap/WMS_CTR	Carta Tecnica Regionale	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms.Esrimap/WMS_ConfiniComunali	Confini Comunali	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://iws.sit.puglia.it/ecwp/ecw_wms.dll?	Ortofoto, DTM, Uso del suolo	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://rsdi.regione.basilicata.it/geoserver/wms	Vari tematismi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://rsdi.regione.basilicata.it/geoserver/wfs	Vari tematismi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSserver	Ortofoto 10k - GeoPortale Regione Campania Servizio WMS -Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSserver	Limiti Amministrativi Comuni Campania - GeoPortale Regione Campania Servizio WMS -Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSserver	Province Regione Campania - GeoPortale Regione Campania Servizio WMS -Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSserver	Province Regione Campania - GeoPortale Regione Campania Servizio WMS -Sfondo	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMSserver	Raster IGM 50.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/s	Raster CTR 25.000 -	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

ervices/cartografia_base_raster/MapServer/WMServer	GeoPortale Regione Campania Servizio WMS -Sfondo-			
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster Carta Amministrativa 200.000 - GeoPortale Regione Campania Servizio WMS - Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster Fisica 200.000 - GeoPortale Regione Campania Servizio WMS -Sfondo-	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://gis.provincia.rc.it/geoserver/ows	Provincia di Reggio Calabria tematismi vari	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://88.41.139.86/scripts/wms_ccr_calabria.asp	Vari tematismi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto_ATA20122013_15cm_Enna/MapServer/WMServer	Ortofoto 15cm area urbana di Enna - Volo ATA 2012-2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/StradeEdifici_2000/MapServer/WMServer	Carta Tecnica Numerica scala 1:2.000 - Strade ed Edifici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Fogli_cartografati/MapServer/WMServer	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Trapani_ata20122013/MapServer/WMServer	Ortofoto 15cm area urbana di Trapani - Volo ATA 2012-2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Palermo_ata20122013/MapServer/WMServer	Ortofoto 15cm area urbana di Palermo - Volo ATA 2012-2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/s	Ortofoto 15cm area urbana di	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

ervices/AREE_URBANE/Ortofoto14cm_Messina_ata20122013/MapServer/WMSServer	Messina - Volo ATA 2012-2013			
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Ragusa_ata20122013/MapServer/WMSServer	Ortofoto 15cm area urbana di Ragusa - Volo ATA 2012-2013	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Regimi Normativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Componenti del paesaggio	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Beni paesaggistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto14cm_Messina_ata20122013/MapServer/WMSServer	Ortofoto 15cm Area urbanizzata di Messina ATA 2012-2013 - WGS84 Web Mercatore	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto_ata20122013_webmercatore/MapServer/WMSServer	Ortofoto Regione Siciliana ATA 2012-2013 - WGS84 Web Mercatore	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico di Trapani - Ambito 1 - Componenti del paesaggio	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Regimi_Normativi/MapServer/W	Piano Paesaggistico di Trapani - Ambito 1 - Regimi normativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

MSServer				
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico di Trapani - Ambito 1 - Beni paesaggistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CACHED/ortofoto_agea2010_wbmercator/MapServer/WMServe	Ortofoto Regione Siciliana AGEA 2010 - WGS84 / Pseudo-Mercator	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico delle Isole Pelagie - Beni paesaggistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Componenti_Paesaggio/MapServer/WMServer	Piano Paesaggistico delle Isole Pelagie - Componenti del paesaggio	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Regimi_Normativi/MapServer/WMServer	Piano Paesaggistico delle Isole Pelagie - Regimi normativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Regimi_Normativi/MapServer/WMServer	Piano Paesaggistico di Siracusa - Regimi normativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Componenti_Paesaggio/MapServer/WMServer	Piano Paesaggistico di Siracusa - Componenti del paesaggio	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico di Siracusa - Beni paesaggistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolo	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Pericolosità	NO	Client-side API	WMS

sita_Agg_f33/MapServer/WMSserver	da frana - UTM WGS84 33N			
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_Agg_f33/MapServer/WMSserver	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Dissesti - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_Agg_f33/MapServer/WMSserver	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Rischio da frana - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Regimi_Normativi/MapServer/WMSserver	Piano Paesaggistico di Agrigento - Regimi normativi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Componenti_Paesaggio/MapServer/WMSserver	Piano Paesaggistico di Agrigento - Componenti del paesaggio	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Beni_Paesaggistici/MapServer/WMSserver	Piano Paesaggistico di Agrigento - Beni paesaggistici	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/BACINI_IDROGRAFICI_ENNA/MapServer/WMSserver	Bacini idrografici territorio provinciale Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_10000_f33/MapServer/WMSserver	CARTA dell'USO del SUOLO (CLC) della Regione Siciliana - scala 1:10.000 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_ReteEcologica_f33/MapServer/WMSserver	Carta della Rete Ecologica Siciliana - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/SIC_ZPS_f33/MapServer/WMSserver	Siti di importanza comunitaria (SIC) e Zone di protezione Speciale (ZPS) - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/SIC_ZPS_f33/MapServer/WMSserver	Siti di importanza comunitaria	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

ervices/SIC_ZPS/MapServer/WMSserver	(SIC) e Zone di protezione Speciale (ZPS) - GAUSS BOAGA			
http://www.provincia.enna.sitr.it/ArcGIS/services/PDG/PDG_BoschiResidui/MapServer/WMSserver	Piano di Gestione Residui boschivi e zone umide dell'ennese-palermitano	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/Intervisibilita/MapServer/WMSserver	Carta dell'intervisibilità del territorio della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.comune.agrigento.sitr.it/ArcGIS/services/Agrigento/Catasto/MapServer/WMSserver?	Catasto Agrigento - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/VINCOLI_SISTEMA_ANTROPICO_AMBIENTALE_EN/MapServer/WMSserver	Vincoli del Sistema Antropico-Ambientale della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMSserver	Patrimonio Archeologico, Storico ed Architettonico della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.trapani.sitr.it/ArcGIS/services/Archeologia_trapani/MapServer/WMSserver	Aree Archeologiche Trapani	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/RETICOLO_IDROGRAFICO_ENNA/MapServer/WMSserver	Reticolo Idrografico della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_base	Carta Tecnica scala 1:10.000 - Comune di Acireale - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_catasto	Catasto Fabbricati e Terreni - Comune di Acireale - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_vincoli	Carta dei vincoli - Comune di Acireale - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS

http://sitr.comune.acireale.ct.it/ows/acireale/acireale_prg	Piano Regolatore Generale - Comune di Acireale - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/CARTA_NATURA_TIPO_PAESAGGI/MapServer/WMServer	Carta Natura Tipi di Paesaggio della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/CARTA_NATURA_UNITA_PAESAGGIO/MapServer/WMServer	Carta Natura Unità di Paesaggio della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/LIMITI_AMMINISTRATIVI/MapServer/WMServer	Limiti amministrativi comunali della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/BOSCHI_ENNA/MapServer/WMServer	Boschi della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://151.8.208.34/fcgi-bin/mapserv.exe?map=/ms4w/data/map/adrano_vincoli.map	Carta dei Vincoli - Comune di Adrano - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/PARCHI_E_RISERVE/MapServer/WMServer	Parchi e Riserve della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Parchi_Riserve_f33/MapServer/WMServer	Parchi e Riserve - Regione Sicilia - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Toponimi_IGM25000_f33/MapServer/WMServer	Toponimi IGM 1:25.000 - UTM WGS84 33N	NO	Client-side API	WMS
http://www.provincia.trapani.sitr.it/ArcGIS/services/Aree_protette_WGS84/MapServer/WMServer	Aree Protette Provincia di Trapani - UTM WGS84	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/ISTAT_LimitiAmmini	Limiti Amministrativi 2011 ISTAT - UTM WGS84 33N	NO	Client-side API	WMS

strativi_2011/MapServer/WMServer				
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_DLGS_227_01/MapServer/WMServer	Carta forestale regionale siciliana	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_LR_19_96/MapServer/WMServer	Carta forestale regionale siciliana	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CATEGORIE_FORESTALI/MapServer/WMServer	Carta forestale regionale siciliana	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CLASSI_INVENTARIALI/MapServer/WMServer	Carta forestale regionale siciliana	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_AREE_ECOLOGICAMENTE_OMOGENEE/MapServer/WMServer	Aree ecologicamente omogenee	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_VINCOLO_IDROGEOLOGICO/MapServer/WMServer	Vincolo Idrogeologico	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_BOSCHI_VETUSTI/MapServer/WMServer	Boschi vetusti	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.agrigento.sitr.it/ArGIS/services/SIC_ZPS/MapServer/WMServer	Siti di importanza comunitaria (SIC) e Zone di protezione speciale (ZPS) nella Regione Sicilia - (coord. UTM-WGS84 fuso 33)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.agrigento.sitr.it/ArGIS/services/ImpBirdAreas/MapServer/WMServer	IBA - Important Bird Area, aree importanti per gli uccelli (coord. UTM-WGS84 fuso 33)	NO	Client-side API	WMS
http://www.provincia.agrigento.sitr.it/ArGIS/services/RD3267idrogeol/MapServer	Vincolo idrogeologico ex R.D. 3267 del 1923 - provincia AG	NO	Client-side API	WMS

r/WMSserver	(coord. UTM-WGS84 fuso 33)			
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ComuniSicilia/MapServer/WMSserver	Territori comuni della Sicilia (coord. UTM-WGS84 fuso 33)	NO	Client-side API	WMS
http://www.provincia.agrigento.sitr.it/ArcGIS/services/IGM50K/MapServer/WMSserver	Raster - Cartografia IGMI 1:50000 del territorio della Provincia di Agrigento (coord. UTM-WGS84 fuso 33)	NO	Client-side API	WMS
http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMSserver	Aree di interesse paesaggistico della Provincia di Enna	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Sismicita_storica_wgs84/MapServer/WMSserver	Sismicità storica - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Geologia_Faglie_wgs84/MapServer/WMSserver	Geologia e faglie - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://www.provincia.trapani.sitr.it/ArcGIS/rest/services/Usso_suolo_natura_2000_wms/MapServer	Uso del suolo Aree "Natura 2000" Provincia di Trapani	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_AGG-2008_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/IGM_25000_Raster_f33/MapServer/WMSserver	IGM 1:25.000 Raster - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - Raster B/N - UTM WGS84 33N	NO	Client-side API	WMS

http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_AGG-2008_f33/MapServer/WMServer	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - Raster B/N - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Quickbird_2006-2007_f33/MapServer/WMServer	Immagini satellitari Quickbird 2006-2007 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/PRG_NODI_SITR_f33/MapServer/WMServer	Piani Regolatori Generali - Nodi Comunali SITR - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Dissesti - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolosità_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Pericolosità da frana - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Rischio da frana - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_SitiAttenzione_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Siti Attenzione - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Rischio_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Rischio Idraulico - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Pericolosità_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Pericolosità Idraulica - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_SitiAttenzione_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Siti Attenzione - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Esondazione_f33/MapServer/WMServer	P.A.I. Sicilia - Idraulica - Esondazione - UTM WGS84 33N	NO	Client-side API	WMS

33/MapServer/WMServer	33N			
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_IT2000_f33/MapServer/WMServer	Ortofoto IT2000 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/IGM_50000_Raster/MapServer/WMServer	IGM 1:50.000 Raster B/N - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTR_LimitiAmministrativi_f33/MapServer/WMServer	Limiti Amministrativi C.T.R. scala 1:10.000 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_ATA20072008_f33/MapServer/WMServer	Ortofoto ATA 2007-2008 - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_Natura_f33/MapServer/WMServer	Carta Natura - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_f33/MapServer/WMServer	Carta dell' uso dei suoli - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CTN_2000_Raster/MapServer/WMServer	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - GAUSS BOAGA	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/CTN_2000_Raster_f33/MapServer/WMServer	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - UTM WGS84 33N	NO	Client-side API	WMS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Fogli_cartografati/MapServer/WFSServer	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/Numeri_Civici/GeoDataServer/WFSServer	Carta Tecnica Numerica scala 1:2.000 - Numeri Civici - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://map.sitr.regione.sicilia.it/ArcGIS/s	Piano Paesaggistico di Trapani	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS

ervices/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Geodata/GeoDataServer/WFSServer	- Ambito 1 - Servizio WFS			
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Pelagie - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Egadi - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Siracusa - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Agrigento - Servizio WFS	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ImpBirdAreas/MapServer/WFSServer	IBA - Important Bird Area, aree importanti per gli uccelli (coord. UTM-WGS84 fuso 33)	NO	Client-side API	WFS
http://www.provincia.agrigento.sitr.it/ArcGIS/services/RD3267idrogeol/MapServer/WFSServer	Vincolo idrogeologico ex R.D. 3267 del 1923 - provincia AG (coord. UTM-WGS84 fuso 33)	NO	Client-side API	WFS
http://webgis.regione.sardegna.it/geoserver/ows	Vari tematismi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WMS
http://webgis.regione.sardegna.it/geoserver/wfs	Vari tematismi	YES (ROMA40/OVEST->WGS 84 UTM 32N)	Client-side API	WFS
http://www.cartografia.servizirl.it/arcgis/services/wms/ctr_wms/MapServer/WMS Server	Carta Tecnica Regionale 1:10000 aggiornata dai Database Topografici - WMS	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ctr_wms/MapServer/WMS Server	Carta Tecnica Regionale 1:10000 ed. 1980-94 servizio WMS	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ctr_wms/MapServer/WMS Server	DUSAF 2.1 - Uso suolo 2007 -	NO	Client-side API	WMS

a.it/ArcGIS10/services/wms/dusaf21/MapServer/WMServer	Servizio di mappa WMS			
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMServer	Ortofoto AGEA 2012 (WMS)	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10T2/services/PGT/tav_previsioni_b/MapServer/WMServer	PGT - Tavola delle Previsioni di Piano - WMS	NO	Client-side API	WMS
http://www.cartografia.servizirl.it/arcgis/services/ambiente/Rete_e_infrastrutture_del_sottosuolo_WMS/MapServer/WMServer	Reti e infrastrutture del sottosuolo - WMS	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/fisica_wms/MapServer/WMServer	Mappa fisica - Servizio di Mappa WMS	NO	Client-side API	WMS
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/politica_wms/MapServer	Mappa politica - Servizio di Mappa WMS	NO	Client-side API	WMS
https://www.dati.lombardia.it/resource/4gej-rwsm.json	Mappe Negozi e Locali Storici	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/iu2c-9p5j.json	Mappa musei	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/hi38-chs9?method=export&format=Shapefile	Mappa Distretti Urbani del Commercio Riconosciuti da Regione Lombardia	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/u8qe-3an8.json	Mappa fattorie didattiche lombarde	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/jayn-vsw3.json	Mappa Mercati Storici	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/drv3-2qjn.json	Mappa Registro Regionale Sonde Geotermiche	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/	Mappa elenco regionale degli	?	Client-side API	WFS

3d7p-g83c.json	agriturismo			
https://www.dati.lombardia.it/resource/h662-8bn8.json	Mappa strutture ricettive alberghiere e extra-alberghiere	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/dia7-79gf.json	Mappa punti di interesse progetto Garda bresciano	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/d9mg-gia6?method=export&format=Shapefile	Comune Bergamo - Mappa ZTL	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/4bb9-k356?method=export&format=Shapefile	Mappa classificazione sismica dei comuni lombardi	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/8ux9-ue3c.json	Mappa Stazioni Meteorologiche	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/efh9-eyd6?method=export&format=Shapefile	Limiti amministrativi 2014 delle province di Regione Lombardia	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/bf55-y6y4.json	Mappa istituzioni scolastiche e scuole statali	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Stradario e Fabbricati	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/6nzq-m2cw.json	01	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/6y9j-zbn6.json	Mappa punti di interesse progetto Villa Reale Monza	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/78qi-2hyx.json	Agri-Lecco	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/562w-jc3b?method=export&format=Shapefile	CM Tirano numeri civici	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geosp	Aree omogenee per rischio	?	Client-side API	WFS

atial/kq4w-c83t?method=export&format=Shapefile	neve			
https://www.dati.lombardia.it/resource/dqc-xh3g.json	CM Tirano Civici Fabbricati Stradario	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/b794-fvxp?method=export&format=Shapefile	Aree omogenee per rischi naturali	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/72wv-3r68.json	Mappa rete monitoraggio corsi acqua	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/ds2z-s86c?method=export&format=Shapefile	Aree omogenee rischio valanghe	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/rn86-mwvf?method=export&format=Shapefile	Parchi Seveso Comuni	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Toponomastica completa	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/xs58-d3hi?method=export&format=Shapefile	Aree omogenee per rischio incendi boschivi	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/wx72-53nz.json	Mappa rete monitoraggio laghi	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/7u4b-rc7c.json	COMUNE PIOLTELLO MAPPA SERVIZIO BIKE SHARING	?	Client-side API	WFS
https://www.dati.lombardia.it/api/geospatial/hxvd-52zt?method=export&format=Shapefile	PROVINCIA MONZA BRIANZA Beni culturali	?	Client-side API	WFS
https://www.dati.lombardia.it/resource/vq48-hab4.json	Musei progetto garda bresciano	?	Client-side API	WFS

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://www.cartografiari.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Biodiversità - Habitat Rete Natura 2000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Liguria (ITALY)	YES
http://www.sit.comune.parma.it/cgi-bin/files/2013/shp/fabbricati.zip	Fabbricati	**	Vector	Fully accessible	NO Restrictions	http://www.sit.comune.parma.it	Parma (ITALY)	NO
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMServer	Ortofoto AGEA 2012	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Lombardia (ITALY)	YES
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/dusaf21/MapServer/WMServer	DUSAF 2.1 - Uso suolo 2007	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Lombardia (ITALY)	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IBA.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/raster/Atlante_desertificazione.map	Atlante nazionale delle aree a rischio di desertificazione	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Bacini_idrografici_principali_e_secondari.map	Bacini idrografici principali e secondari	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_ecopedologica_d'Italia.map	Carta ecopedologica d'Italia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Carta_geologica_d'Italia.map	Carta geologica d'Italia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Catalogo_frane.map	Catalogo frane	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Classificazione_sismica_dei_comuni_italiani_al_2012.map	Classificazione sismica dei comuni italiani al 2012	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Edifici.map	Edificato dei capoluoghi di provincia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_ferroviaria.map	Infrastrutture ferroviarie	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Rete_stradale.map	Infrastrutture stradali	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Raster/ortofoto_colore_12.map	Ortofoto a colori anno 2012 con relative date del volo	*****	Raster	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Raster/ortofoto_colore_sisma_aquila.map	Ortofoto a colori sisma L'Aquila con relative date del volo - Aprile 2009	*****	Raster	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_pericolosita.map	PAI - Pericolosità idrogeologica	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/PAI_rischio.map	PAI - Rischio idrogeologico	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosita_sismica_002.map	Pericolosità sismica di riferimento a passo 0,02 gradi	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Pericolosita_sismica_005.map	Pericolosità sismica di riferimento a passo 0,05 gradi	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Aste_fluviali.map	Reticolo idrografico	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/EUAP.map	Siti protetti - VI Elenco ufficiale aree protette (EUAP)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

Cover2000.map	2000							
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006.map	Uso del suolo - Corine Land Cover anno 2006	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2000_IVliv.map	Uso del suolo - Corine Land Cover anno 2000 IV Livello	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WMS_v1.3/Vettoriali/Corine_Land_Cover2006_IVliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_SAL_ACQUE	Atlante della desertificazione - Acquiferi potenzialmente salini	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_ERO_AREE	Atlante della desertificazione - Aree protette	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/wcs/DES_URBANO	Atlante della desertificazione - Aree urbane e principali infrastrutture	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_ERONDVI	Atlante della desertificazione - Indice di vegetazione normalizzato (Normalized Difference Vegetation Index - NDVI)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_EROPASCOLI	Atlante della desertificazione - Intensita' di Pascolamento	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_EROAGROSEM	Atlante della desertificazione - Misure	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

	agroambientali su seminativi							
http://wms.pcn.minambiente.it/wcs/DES_SIC_SECCO	Atlante della desertificazione - Numero medio annuo di giorni di suolo secco	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_ERORILLS	Atlante della desertificazione - Presenza di fenomeni di erosione	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_SICPOTEN	Atlante della desertificazione - Siccità potenziale	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/wcs/DES_EROSUOLI	Atlante della desertificazione - Suoli sottili su forti pendenze	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IBA.map	Aree importanti per l'avifauna (IBA - Important Birds Areas)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/WFS/Atlante_desertificazione.map	Atlante nazionale delle aree a rischio di desertificazione	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Bacini_idrografici_principali_e_secondari.map	Bacini idrografici principali e secondari	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_ecopedologica.map	Carta ecopedologica d'Italia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Carta_geologica_d'Italia.map	Carta geologica d'Italia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Catalogo_Frane.map	Catalogo frane	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Classificazione_sismica_2012.m	Classificazione sismica dei comuni italiani al	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

ap	2012							
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Edifici.map	Edificato dei capoluoghi di provincia	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Rete_ferroviana.map	Infrastrutture ferroviarie	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Rete_stradale.map	Infrastrutture stradali	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/IUTI.map	Inventario dell'Uso delle Terre d'Italia (IUTI)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_pericolosa.map	PAI - Pericolosità idrogeologica	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/PAI_rischio.map	PAI - Rischio idrogeologico	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosità_sismica_002.map	Pericolosità sismica di riferimento a passo 0,02	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

	gradi							
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Pericolosita_sismica_005.map	Pericolosità sismica di riferimento a passo 0,05 gradi	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Aste_fluviali.map	Reticolo idrografico	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/EUAP.map	Siti protetti - VI Elenco ufficiale aree protette (EUAP)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/SIC.map	Siti protetti - Rete Natura 2000 - Siti di Importanza Comunitaria (SIC)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/ZPS.map	Siti protetti - Rete Natura 2000 - Zone di Protezione Speciale (ZPS)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/RAMSAR.map	Siti protetti - Zone umide di importanza internazionale (Ramsar)	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Specchi_Acqua.map	Laghi e altri specchi d'acqua interni	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover1990.map	Uso del suolo - Corine Land Cover anno 1990	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000.map	Uso del suolo - Corine Land Cover anno 2000	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006.map	Uso del suolo - Corine Land Cover anno 2006	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2000_IVliviv.map	Uso del suolo - Corine Land Cover anno 2000 IV Livello	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES

http://wms.pcn.minambiente.it/ogc?map=/ms_ogc/wfs/Corine_Land_Cover2006_IVliv.map	Uso del suolo - Corine Land Cover anno 2006 IV Livello	*****	Vector	Fully accessible	NO Restrictions	http://www.pcn.minambiente.it	ITALY	YES
http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WMSServer	Toponomastica	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WMSServer	Idrografia	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WMSServer	Viabilità	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/siat/services/OGC/CTP2013/ImageServer/WMSServer	Carta Tecnica Provinciale	*****	Raster	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Soleggiamento_DSM_DTM/MapServer/WMSServer	LIDAR Soleggiamento DSM e DTM	*****	Raster	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WMSServer	Ambiti Statistici	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES

http://geoservices.provincia.tn.it/arcgis/services/Toponomastica/MapServer/WFSServer	Toponomastica	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Idrografia/MapServer/WFSServer	Idrografia	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Viabilita/MapServer/WFSServer	Viabilità	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/arcgis/services/Ambiti_Statistici/MapServer/WFSServer	Ambiti Statistici	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/wfs/cl2D	Curve di livello grezze	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://geoservices.provincia.tn.it/wfs/cl2Ds	Curve di livello smussate	*****	Vector	Fully accessible	NO Restrictions	www.territorio.provincia.tn.it	Provincia autonoma di Trento (Italy)	YES
http://sdi.provincia.bz.it/geoserver/wms	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	-	Provincia autonoma di Bolzano (Italy)	YES
http://sdi.provincia.bz.it/geoserver/wms	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	-	Provincia autonoma di Bolzano (Italy)	YES

http://idt.regione.veneto.it/wms_c0107_reteviaria/service.svc/get	Rete Viaria	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c04_acqua/service.svc/get	c04010240012_Elementoldrico	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c04_acqua/service.svc/get	c0401031_Laghi	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0501_litologia/service.svc/get	c0501031_LitologiaReg	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0505_geositi/service.svc/get	c0505013_Geositi	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0506021_copsuolo/service.svc/get	c0506021_CopSuolo	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0507021_cartasuoliveneto/service.svc/get	c0507021_CartaSuoliVeneto	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0604011_tipihabitat/service.svc/get	c0604011_TipiHabitat	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605011_CategForestali	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES

http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605021_C ategForestaliCI	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c0605_ecosistemifor/service.svc/get	c0605081_B oschiProtezione	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0801021_C entriStoriciAtl	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c08_patrimonio_caa/service.svc/get	c0802011_V illeVenete	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c1101_tuttele/service.svc/get	c1101011_S IC	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/wms_c1101_tuttele/service.svc/get	c1101021_Z PS	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/WMS_c1101_Tuttele/service.svc/get	c1101081_T utPaesIntRe gCPr	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://idt.regione.veneto.it/WMS_c1101_Tuttele/service.svc/get	c1101091_T utPaesIntRe gCEL	*****	Vector	Fully accessible	NO Restrictions	http://idt.regione.veneto.it/app/metacatalog/	Regione Veneto	YES
http://serviziogc.regione.fvg.it/geoserver/wms	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	http://irdat.regione.fvg.it	Regione Friuli Venezia-Giulia	YES

http://serviziogc.regione.fvg.it/geoserver/wfs	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	http://irdat.regione.fvg.it	Regione Friuli Venezia-Giulia	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsortoregp/wms_ortoregp2010?	Ortofoto Piemonte	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimslimmwms/wms_limitiAmm?	Limiti amministrativi	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsidrowms/wms_idro?	Idrografia	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/gsareprot/rp-01/areeprotwms/wms_gsareprot_1?	Aree Protette e Rete Natura 2000	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/arevincwms/wms_aree_vincoli?	Aree Vincolate	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/gsvincoli/rp-01/punvincwms/wms_	Beni Vincolati	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

benivigliano?								
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondo_cart_rif_bn?	BDTRE - Base cartografica di riferimento - 2015 - WMS B/N (Vettoriali)	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_sfondo_cart_rif?	BDTRE - Base cartografica di riferimento - 2015 - WMS Colori (Vettoriali)	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/ginevra/rp-01/ngvwms/wms_ngv_1?	Viabilità e reti di trasporto	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsbasewms/wms_cds?	Consumo di Suolo	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/urbasv/rp-	Mosaicatura Piani Regolatori	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

01/urbawms/urba_prg_c_wms								
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/disspaiwms/wms_vtdifsuolo_dissesti_pai?	Dissesti PAI	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/fascpaiwms/wms_vtdifsuolo_fasce_fluviali?	Fasce Fluviali	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtdifsuolo/rp-01/rmepaiwms/wms_vtdifsuolo_aree_rme?	Aree RME	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/incendiwms/wms_vtmonfor_incendi_boschivi?	Incendi boschivi	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/interventipsrwms/wms_vtmonfor_interventi_psr?	Piano di Sviluppo Rurale - Interventi	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/cartaforwms/wms_vtmonfor_cartafor?	PFT - Copertura forestale e altri usi del suolo	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/pisifwms/wms_vtmonfor_pisif?	Piani di Sistemazione e Idraulico-forestale (PISIF)	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/popsemwms/wms_vtmonfor_popseme?	Popolamenti da seme	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsprwms/wms_tav4_ppr?	TavolaP4 piano paesaggistico	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/anagamb/rp-01/ulowmsp/wms_unita_locali_operative?	Anagrafe dei soggetti ambientali - Unità Locali Operative	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/ambpat/rp-01/rifwmsp/wms_impianti_rifiuti_authorized?	Impianti autorizzati al recupero e/o smaltimento di rifiuti	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

http://geomap.reteunitaria.piemonte.it/ws/area/rp-01/aerawms/wms_aera_emissioni_puntuali?	Inventario Emissioni Puntuali in atmosfera (AERA ALCOTRA)	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/area/rp-01/aerawms/wms_aera_emissioni_tot?	Inventario Emissioni Totali in atmosfera (AERA ALCOTRA)	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/arbo/rp-01/arbowmspub/wms_siar_compat_territ?	Attività soggette a normativa Seveso - Stabilimenti e Elementi territoriali vulnerabili	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/vtmonfor/rp-01/sentieriwms/wms_vtmonfor_sentieri?	Rete regionale dei percorsi escursionistici	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wms_corpi_idrici_wfd?	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMS (Raster 1:10.000)	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2015.xml	BDTRE - Base cartografica di riferimento - 2015 - WMTS (Raster 1:10.000)	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wms_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 - WMS (Raster 1:10.000)	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/WEBCAT/CAPABILITIES/wmts_regp_basecarto10bn_2014.xml	BDTRE - Base cartografica di riferimento - 2014 -	*****	Raster	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES

	WMTS (Raster 1:10.000)							
http://geomap.reteunitaria.piemonte.it/ws/taims/rp-01/taimsraffgnsswfs/wfs_vertici_rete?	Vertici di Rete (raffittimento della rete IGM95 e GNSS)	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://geomap.reteunitaria.piemonte.it/ws/esiri/rp-01/siriogc/wfs_corpi_idrici_wfd?	Corpi idrici WFD 2000/60/CE Triennio 2009 - 2011	*****	Vector	Fully accessible	NO Restrictions	http://www.geoportale.piemonte.it	Regione Piemonte	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTE_RNE/28.asp	Servizio di visualizzazione WMS del Dataset: Bacini Idrografici	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1400.asp	Servizio di visualizzazione WMS del Dataset: Aree Protette e relativi Piani - ed. 2011	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTE	Servizio di visualizzazione WMS del Dataset:	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

RNE/626.asp	Reticolo Idrografico e Nodi Idrografici sc. 1:10000							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/ACQUE_INTE_RNE/436.asp	Servizio di visualizzazione WMS del Dataset: Laghi sc 1:5000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/39.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso del Suolo sc. 1:25000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/5.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso e Copertura del Suolo sc. 1:100000 (COR.IN.E.)	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1415.asp	Servizio di visualizzazione WMS del Dataset: Carta Uso del Suolo sc.	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

	1:10000							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1371.asp	Servizio di visualizzazione WMS del Dataset: Acclività - 7 classi sc. 1:10000 - ed. 2007	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/272.asp	Servizio di visualizzazione WMS del Dataset: Foreste Regionali - ex demaniali sc. 1:10000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/750.asp	Servizio di visualizzazione WMS del Dataset: Zone rilevanti per la salvaguardia dei siti di interesse comunitario della Rete Natura 2000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

	e Misure di Conservazione valide per i SIC Alpini Liguri							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/STRUTTURE/854.asp	Servizio di visualizzazione WMS del Dataset: Edifici e Costruzioni - livelli della CTR sc. 1:5000 - 1990/2006	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1007.asp	Servizio di visualizzazione WMS del Dataset: Sondaggi e Stratigrafie	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1205.asp	Servizio di visualizzazione WMS del Dataset: Interventi di difesa suolo sc. 1:5000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1246.asp	Servizio di visualizzazione WMS del Dataset: Zone	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

	Sismiche - D.G.R. 1308/2008							
http://www.cartografiari.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1478.asp	Servizio di visualizzazione WMS del Dataset: PAI Piano Assetto Idrogeologico del F. Po - Dissesti e Vincoli	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiari.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1015.asp	Servizio di visualizzazione WMS del Dataset: Carta delle Criticità ad Uso di Protezione Civile sc. 1:25000 - D.G.R. 746/2007	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiari.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/755.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Biogeografia	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

	e Bioclim							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1179.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Habitat Rete Natura 2000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/BIOLOGIA/1182.asp	Servizio di visualizzazione WMS del Dataset: Biodiversità - Specie ed Altri Elementi Rilevanti	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/555.asp	Servizio di visualizzazione WMS del Dataset: Carta Geologica Regionale con elementi di Geomorfologia (CGR) sc. 1:25000 -	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

	tav. 229.4 - Savona							
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/PIANIFICAZIONE/1577.asp	Servizio di visualizzazione WMS del Dataset: Uso del Suolo sc. 1:10000 - ed. 2012	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/AMBIENTE/1572.asp	Servizio di visualizzazione WMS del Dataset: Zone a Protezione Speciale (ZPS) - DGR n.650/2012	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/QUOTE/1584.asp	Servizio di visualizzazione WMS del Dataset: Esposizione dei versanti LIDAR - 9 classi sc. 1:5000 - ed. 2008	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1363.map	Servizio di visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AGRICOLTURA/1593.map	Servizio di visualizzazione WMS del Dataset: Tipi Forestali della Regione Liguria sc. 1:25000 - ed. 2013	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://mapserver.gis.uvmn.edu/mapserver http://www.cartografiarl.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/1281.map	Servizio di visualizzazione WMS del Dataset: Remover - Rete di Monitoraggio dei Versanti sc.1:10000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

<p>http://mapserver.gis.univie.ac.at/mapserver http://www.cartografiari.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1626.map</p>	<p>Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità alluvionale - Direttiva Alluvioni 2007/60/CE e Dlgs 49/2010</p>	<p>*****</p>	<p>Vector</p>	<p>Fully accessible</p>	<p>NO Restrictions</p>	<p>http://geoportale.regione.liguria.it</p>	<p>Regione Liguria</p>	<p>YES</p>
<p>http://mapserver.gis.univie.ac.at/mapserver http://www.cartografiari.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1627.map</p>	<p>Servizio di visualizzazione WMS del Dataset: Classi di rischio alluvionale ed elementi territoriali esposti - Direttiva Alluvioni 2007/60/CE e D.lgs 49/2010</p>	<p>*****</p>	<p>Vector</p>	<p>Fully accessible</p>	<p>NO Restrictions</p>	<p>http://geoportale.regione.liguria.it</p>	<p>Regione Liguria</p>	<p>YES</p>

<p>http://mapserver.gis.univgenova.it/mapserver http://www.cartografi.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/GEOSCIENTIFICHE/492.map</p>	<p>Servizio di visualizzazione WMS del Dataset: Inventario dei Fenomeni Franosi sc. 1:10000 - Progetto IFFI</p>	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
<p>http://mapserver.gis.univgenova.it/mapserver http://www.cartografi.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1686.map</p>	<p>Servizio di visualizzazione WMS del Dataset: P.T.A. 2014 - Registro delle aree protette</p>	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
<p>http://mapserver.gis.univgenova.it/mapserver http://www.cartografi.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/AMBIENTE/1693.map</p>	<p>Servizio di visualizzazione WMS del Dataset: Scenari di pericolosità da inondazioni marine - Direttiva Alluvioni 2007/60/CE</p>	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES

http://mapserver.gis.unimn.edu/mapserver http://www.cartografiari.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1698.map	Servizio di visualizzazione WMS del Dataset: Aree inondate eventi alluvionali ottobre-novembre 2014 - DGR59/2015	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://mapserver.gis.unimn.edu/mapserver http://www.cartografiari.regione.liguria.it/mapserver/mapserv.exe?MAP=E:/progetti/mapfiles/repertoriocartografico/PIANIFICAZIONE/1702.map	Servizio di visualizzazione WMS del Dataset: Land Cover sc. 1:10000 - ed. 2012	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.liguria.it	Regione Liguria	YES
http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2013	*****	Raster	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/dbtr2013_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight -	*****	Raster	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES

	DBTR2013							
http://servizigis.regionemilia-romagna.it/wms/dbtr	Database Topografico Regionale	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/dbtr2008	Database Topografico Regionale 2008	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/dbtr2008_map	Database Topografico Regionale 2008 vista combinata	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/ambiti_amministrativi	Ambiti Amministrativi	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/dbtr2008_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	*****	Raster	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/dbtr2008_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	*****	Raster	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/dbtr2011	Ortofoto AGEA 2011	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES

romagna.it/wms/agea 2011_rgb	RGB					romagna.it	Romagna	
http://servizigis.region e.emilia-romagna.it/wms/agea 2011_ir	Ortofoto AGEA 2011 Infrarossi	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.region e.emilia-romagna.it/wms/agea 2008_rgb	Ortofoto multifunzion e EMILIA-ROMAGNA - AGEA 2008 RGB	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.region e.emilia-romagna.it/wms/agea 2008_ir	Ortofoto multifunzion e EMILIA-ROMAGNA - AGEA 2008 Infrarossi	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.region e.emilia-romagna.it/wms/dbtr 2008_ctr5	Carta Tecnica Regionale 1:5.000 - MonoFull - DBTR2008	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.region e.emilia-romagna.it/wms/dbtr 2008_ctr5_light	Carta Tecnica Regionale 1:5.000 - MonoLight - DBTR2008	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.region e.emilia-	Carta Tecnica	*****	Vector	Fully accessible	NO Restrictions	http://geoportale. regione.emilia-	Regione Emilia	YES

romagna.it/wms/ctr5	Regionale 1:5.000 - Edizione 1998					romagna.it	Romagna	
http://servizigis.regionemilia-romagna.it/wms/ctr25	Carta Tecnica Regionale 1:25.000 - Edizione 1998-2000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/ctr250	Carta Topografica Regionale 1:250.000 - Edizione del 1994	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/ctrmultiscala	CTR - Multiscala	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/carta_storica_regionale_1853	Carta Storica Regionale 1:50.000 - Edizione del 1999	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/geologia10k	Carta geologica 1:10.000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regionemilia-romagna.it/wms/geol	Carta geologica 1:50.000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regionemilia-romagna.it	Regione Emilia Romagna	YES

ogia50k								
http://servizigis.regione.emilia-romagna.it/wms/geologia_sintesi	Carta geologica di sintesi	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/paesaggio_geologico	Paesaggio geologico	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/suoli	Tematismi dei suoli e carte derivate	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/aree_protette_natura2000	Aree Protette e Natura 2000	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/carta_della_vegetazione	Carta della vegetazione	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wms/tema	Tematismi numerici tratti dalla	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES

tismi_numerici_ctr10k	CTR 10.000 - 1988							
http://servizigis.regione.emilia-romagna.it/wms/uso_del_suolo	Uso del suolo	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wfs/carta_della_vegetazione	Carta della vegetazione (WFS)	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wfs/rete_escursionistica	Rete Escursionistica - Percorsi e punti d'interesse escursionistici 2013 (WFS)	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://servizigis.regione.emilia-romagna.it/wfs/uso_d_el_suolo	Uso del suolo (WFS)	*****	Vector	Fully accessible	NO Restrictions	http://geoportale.regione.emilia-romagna.it	Regione Emilia Romagna	YES
http://webgispcn.autoritabacino.marche.it/cgi-bin/mapserv.exe?map=/ms_ogc/service/wms_pai_adbmarche.map	PAI	*****	Vector	Fully accessible	NO Restrictions	?	Regione Marche	?

http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmscastore&	CASTORE_WMS	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsofc&	Geoscopio_wms OFC	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsfotogrammi&map_resolution=91&	Geoscopio_wms FOTOTECA	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmscatasto&map_resolution=91&	Geoscopio_wms CATASTO	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsctr&map_resolution=91&	Geoscopio_wms CTR	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbtm_rt.qgs	Regione Toscana - DBTM_Data BaseTopograficoMultiscala	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?

http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsstopogr&	Geoscopio_wms BASI TOPOGRAFICHE	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?
http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsambamm&	Geoscopio_wms AMBITI_AMMINISTRATIVI	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?
http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsambpr ogr&	Geoscopio_wms AMBITI_DI_PROGRAMMAZIONE	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?
http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsucs&map_resolution=91&	Geoscopio_wms USO_E_COPERTURA_DELL_SUOLO	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?
http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsstentieristica&map_resolution=91&	Geoscopio_wms SENTIERISTICA	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?
http://www502.region.e.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsidrogr&map_resolution=91&	Geoscopio_wms IDROGRAFIA	*****	Vector	Fully accessible	NO Restrictions	http://www.region.e.toscana.it/	Regione Toscana	?

http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmspiapae&	Geoscopio_wms PIANO_PAE SAGGISTICO	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsgeologia&	Geoscopio_wms GEOLOGIA_I NDAGINI_G EOTEMATICA HE_E_MINE RARIE	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbgeologico_rt.qgs	Regione Toscana - DB_GEOLOGICO	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsarprot&map_resolution=91&	Geoscopio_wms AREE_PROTETTE	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsperidr&	Geoscopio_wms RISCHIO IDROGEOLOGICO	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=mappe_acustiche_r	Regione Toscana - MAPPE_ACUSTICHE	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?

t.qgs								
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmspedologia&map_resolution=91&	Geoscopio_wms PEDOLOGIA	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsidrogeologico&	Geoscopio_wms VINCOLO IDROGEOLOGICO	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmstoponomastica&	Geoscopio_wms TOPONOMASTICA	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/wmsraster/com.rt.wms.RTmap/wms?map=wmsterritorimontani&	Geoscopio_wms TERRITORI_MONTANI	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbusosuolostorico_rt.qgs	Regione Toscana - Usi del suolo e rendite catastali nella	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?

	Toscana Granducale (1835)							
http://www502.regione.toscana.it/geoscopio_qg/cgi-bin/qgis_mapserv?map=dbsedimi_rt.qgs	Regione Toscana - Periodizzazione della crescita urbana (1897-2007)	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.toscana.it/	Regione Toscana	?
http://geo.umbriaterritorio.it/arcgis/services/public/CTR_10K_WGS84/MapServer/WMSServer	Carta Tecnica Regionale formato raster a scala 1:10.000 WGS 84	*****	Raster	Fully accessible	I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.	http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi	Regione Umbria	Yes

<p>http://geo.umbriaterriorio.it/arcgis/services/public/CTR_5K_WGS84/MapServer/WMSServer</p>	<p>Carta Tecnica Regionale formato raster a scala 1:5.000 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>
<p>http://geo.umbriaterriorio.it/arcgis/services/public/CATASTO_5K_WGS84/MapServer/WMSServer</p>	<p>Catasto Regionale formato raster a scala 1:5.000 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>

					<p>ne alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>			
<p>http://geo.umbriaterriorio.it/arcgis/services/public/ECOGRAFICO_CATASTALE1_WGS84/MapServer/WMSServer</p>	<p>Ecografico Catastale Regionale WGS 84 - Grafo tratti stradali, Fabbricati, Numeri civici</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>

<p>http://geo.umbriateritorio.it/arcgis/services/public/ORTOFOTO_2011_WGS84/MapServer/WMSServer</p>	<p>Ortofoto Umbria 2011 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>
<p>http://geo.umbriateritorio.it/arcgis/services/public/ORTOFOTO_2008_WGS84/MapServer/WMSServer</p>	<p>Ortofoto Umbria 2008 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazio</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>

					<p>ne alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>			
<p>http://geo.umbriateritorio.it/arcgis/services/public/ORTOFOTO_2005_WGS84/MapServer/WMServer</p>	<p>Ortofoto Umbria 2005 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>

<p>http://geo.umbriateritorio.it/arcgis/services/public/ORTOFOTO_2000_WGS84/MapServer/WMSServer</p>	<p>Ortofoto Umbria 2000 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>
<p>http://geo.umbriateritorio.it/arcgis/services/public/ORTOFOTO_1997_WGS84/MapServer/WMSServer</p>	<p>Ortofoto Umbria 1997 WGS 84</p>	<p>*****</p>	<p>Raster</p>	<p>Fully accessible</p>	<p>I Servizi possono essere usati liberamente per uso locale di studio e di ricerca. Non possono essere utilizzati per attività commerciali. In caso di necessità di pubblicazione e/o altri utilizzi occorre richiedere apposita autorizzazione</p>	<p>http://www.umbriageo.regione.umbria.it/pagine/servizi-wms-attivi</p>	<p>Regione Umbria</p>	<p>Yes</p>

					ne alla Regione Umbria - Servizio Paesaggio, Territorio, Geografia. In ogni caso nelle elaborazioni deve essere sempre riportata la fonte dei dati.			
http://webgis.agriforeste.regione.umbria.it/cgi-bin/mapservwms	Cartografia agriforeste	*****	Vector	Fully accessible	?		Regione Umbria	Yes
http://geocatalogo.regione.abruzzo.it/erdas-iws/ogc/wms/	Mosaici UTM-WGS84	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze Condivise/Sistema_delle_Conoscenze Condivise_Armatura_Urbana_e_Territoriale/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Armatura Urbana Territoriale	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze Condivise/Sistema_delle_Conoscenze Condivise_Carta_dei_Rischi/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Rischi	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_dei_Valori/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Valori	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_dei_Vincoli/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Vincoli	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Sistema_delle_Conoscenze_Condivise/Sistema_delle_Conoscenze_Condivise_Carta_del_Degrado_e_Abandono/MapServer/WmsServer	SISTEMA DELLE CONOSCENZE CONDIVISE - Degrado e Abbandono	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Aree_Protette/MapServer/WmsServer	Aree protette	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_e_Vincoli/Pianificazione_e_Vincoli_PAIRisk/MapServer/WmsServer	Piano per l'assetto Idrogeologico PAI - Carta del Rischio	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_e_Vincoli/Pianificazione_e_Vincoli_PAIPericolosita/MapServer/WmsServer	Piano per l'assetto Idrogeologico PAI - Carta della pericolosità	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_e_Vincoli/Pianificazione_Regionale_Paesistico_2004/MapServer/WmsServer	Piano Regionale Paesistico 2004	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_e_Vincoli/Pianificazione_PSDA_Difesa_Dalle_Pericolosita/MapServer/WmsServer	PSDA Piano Stralcio Difesa Dalle Alluvioni	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Pianificazione_e_Vincoli/Pianificazione_e_Vincoli_Vincolo_Idrogeologico_RD30_1923/MapServer/WmsServer	Carta del Vincolo Idrogeologico	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Uso_Suolo_Edizione_2000/MapServer/WmsServer	Carta dell'Uso del Suolo ed. 2000	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Geobotanica_Habitat/MapServer/WmsServer	Cartografia geobotanica dei SIC al di fuori delle aree protette: Carta degli habitat.	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Agricoltura_Uso_Suolo/Agricoltura_Tip_Foreste/MapServer/WmsServer	Carta Tipologico-Forestale della Regione Abruzzo	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Potenziale/MapServer/WmsServer	Rischio erosione potenziale dei suoli	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Suoli_e_Paesaggi_Abruzzo/MapServer/WmsServer	Carta dei suoli della Regione Abruzzo - ARSSA	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Agricoltura_Uso_Suolo_Rischio_Erosione_Reale/MapServer/WmsServer	Rischio erosione reale dei suoli	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Difesa_Suolo_Geologia_Pedologia/Difesa_Suolo_Geologia_Aree_Esondabili_Criterio_Geomorfologico/MapServer/WmsServer	Carta Aree Esondabili	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_12_Pendenze/MapServer/WmsServer	Piano AIB 12 Carta delle Pendenze	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_13_Esposizione/MapServer/WmsServer	Piano AIB 13 Carta dell'Esposizione	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Protezione_Civile/Protezione_Civile_AIB_47_Livello_di_pericolosita/MapServer/WmsServer	Piano AIB 47 Carta del Livello di Pericolosità	*****	Vector	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2011_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2011	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2010_RegioneAbruzzo	Volo Regione Abruzzo 2010	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

o/MapServer/WmsServer								
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2009_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2009	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2007_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2007	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1954_IGM/MapServer/WmsServer	Volo Base IGM 1954	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_1975_Casmez/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 -75 (b/n)	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1974_Casmez_Colore/MapServer/WmsServer	Volo Cassa del Mezzogiorno 1974 colore	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1975_ENEL/MapServer/WmsServer	Volo ENEL 1975	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1976_IGM/MapServer/WmsServer	Volo IGM 1975 - 1976	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1978_PHF/MapServer/WmsServer	Volo Zone Montane PHF 1978	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1979_Chieti_S_Salvo/MapServer/WmsServer	Volo SNAM 1979	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1982_1986_Regione_Abruzzo/MapServer/WmsServer	Volo Regione Abruzzo 1981 – 1987	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1985_IGM/MapServer/WmsServer	Volo IGM 1985 - 1986	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1988_Alta_Quota/MapServer/WmsServer	Volo Italia Ripresa ad alta quota 1988/1989	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1991_IGM/MapServer/WmsServer	Volo IGM 1991	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1994_Italia/MapServer/WmsServer	Volo ITALIA 1994	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes

http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_1996_PST/MapServer/WmsServer	Volo Parco Scientifico e Tecnologico d'Abruzzo 1996	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2001_2002_Regione_Abruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2001 – 2002	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2004_2005_Regione_Abruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2004 – 2005	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://catasto.regione.abruzzo.it:6080/arcgis/services/Geop_Piani_di_Volo/Piani_di_Volo_2006_RegioneAbruzzo/MapServer/WmsServer	Volo Regione Abruzzo 2006	*****	Raster	Fully accessible	NO Restrictions	http://www.regione.abruzzo.it/	Regione Abruzzo	Yes
http://servizi.geo.regione.molise.it/arcgis/services/acque_interne_marine/MapServer/WMServer	Acque interne e marine	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes

http://servizi.geo.regione.molise.it/arcgis/services/acque_superficiali/MapServer/WMSServer	Acque superficiali	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/altimetria/MapServer/WMSServer	Altimetria	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/aree_faunistiche_venatorie/MapServer/WMSServer	Aree Faunistico-Venatorie	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/attivita_turistico_ricreativa_beni_culturali/MapServer/WMSServer	Attività turistico ricreative - beni cultural	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Basi_cartografiche/MapServer/WMSServer	Basi Cartografiche	*****	Raster	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Basi_IGM/MapServer/WMSServer	Basi IGM	*****	Raster	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Limiti_ISTAT/MapServer/WMSServer	Basi Territoriali	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes

http://servizi.geo.regione.molise.it/arcgis/services/CTR_5000/MapServer/WMServer	Carta Tecnica Regionale in scala 1:5.000	*****	Raster	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/CTR_10000/MapServer/WMServer	Carta Tecnica Regionale scala 1:10.000	*****	Raster	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Catasto/MapServer/WMServer	Catasto	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Conservazione_natura/MapServer/WMServer	Conservazione Natura	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Fenomeni_Franosi/MapServer/WMServer	Fenomeni Franosi	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Geologia/MapServer/WMServer	Geologia	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Ortofoto_Molise_2007/MapServer/WMServer	Ortofoto	*****	Raster	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes

http://servizi.geo.regione.molise.it/arcgis/services/Pericolosita_sismica/MapServer/WMSServer	Pericolosità Sismica	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Pertinenze_fluviali/MapServer/WMSserver	Pertinenze Fluviali	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Piani_di_Bacino_(PAI)/MapServer/WMSserver	Piani di Bacino (PAI)	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/UsodelSuolo/MapServer/WMSserver	Uso del Suolo	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://servizi.geo.regione.molise.it/arcgis/services/Viabilita_Teleatlantas/MapServer/WMSserver	Viabilità	*****	Vector	Fully accessible	NO Restrictions	http://www.geo.regione.molise.it	Regione Molise	Yes
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms.EsriMap/WMS_CTR	Carta Tecnica Regionale	*****	Raster	Fully accessible	NO Restrictions	http://webgis.sit.puglia.it	Regione Puglia	?
http://cartografia.sit.puglia.it/wmsconnector/com.esri.wms.EsriMap/WMS_ConfiniComunali	Confini Comunali	*****	Vector	Fully accessible	NO Restrictions	http://webgis.sit.puglia.it	Regione Puglia	?

http://iws.sit.puglia.it/ecwp/ecw_wms.dll?	Ortofoto, DTM, Uso del suolo	*****	Raster	Fully accessible	NO Restrictions	http://webgis.sit.puglia.it	Regione Puglia	?
http://rsdi.regione.basilicata.it/geoserver/wms	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	http://rsdi.regione.basilicata.it/	Regione Basilicata	Yes
http://rsdi.regione.basilicata.it/geoserver/wfs	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions	http://rsdi.regione.basilicata.it/	Regione Basilicata	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Ortofoto 10k - GeoPortale Regione Campania Servizio WMS - Sfondo-	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Limiti Amministrativi Comuni Campania - GeoPortale Regione Campania Servizio WMS - Sfondo-	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Province Regione Campania - GeoPortale Regione Campania	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes

	Servizio WMS - Sfondo-							
http://sit.regione.campania.it:80/arcgis/services/cartografia_base/MapServer/WMSServer	Province Regione Campania - GeoPortale Regione Campania Servizio WMS - Sfondo	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster IGM 50.000 - GeoPortale Regione Campania Servizio WMS - Sfondo-	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster CTR 25.000 - GeoPortale Regione Campania Servizio WMS - Sfondo-	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster Carta Amministrativa 200.000 - GeoPortale	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Ragione Campania	Yes

MSServer	Regione Campania Servizio WMS - Sfondo-							
http://sit.regione.campania.it:80/arcgis/services/cartografia_base_raster/MapServer/WMServer	Raster Fisica 200.000 - GeoPortale Regione Campania Servizio WMS - Sfondo-	*****	Raster	Fully accessible	NO Restrictions	http://sit.regione.campania.it/	Regione Campania	Yes
http://gis.provincia.rc.it/geoserver/ows	Provincia di Reggio Calabria tematismi vari	*****	Vector	Fully accessible	NO Restrictions		Regione Calabria	Yes
http://88.41.139.86/scripts/wms_ccr_calabria.asp	Vari tematismi	*****	Vector	Fully accessible	NO Restrictions		Regione Calabria	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto_ATA20122013_15cm_Enna/MapServer/WMServer	Ortofoto 15cm area urbana di Enna - Volo ATA 2012-2013	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/CART_2000/StradeEdifici_2000/MapServer/WMServer	Carta Tecnica Numerica scala 1:2.000 - Strade ed	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

	Edifici							
http://map.sitr.region.e.sicilia.it/ArcGIS/services/CART_2000/Fogli_cartografati/MapServer/WMSServer	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Trapani_ata20122013/MapServer/WMSServer	Ortofoto 15cm area urbana di Trapani - Volo ATA 2012-2013	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Palermo_ata20122013/MapServer/WMSServer	Ortofoto 15cm area urbana di Palermo - Volo ATA 2012-2013	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Messina_ata20122013/MapServer/WMSServer	Ortofoto 15cm area urbana di Messina - Volo ATA 2012-2013	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/AREE_URBANE/Ortofoto14cm_Ragusa_ata20122013/MapServer/WMSServer	Ortofoto 15cm area urbana di Ragusa -	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

ta20122013/MapServer/WMSServer	Volo ATA 2012-2013							
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Regimi Normativi	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Componenti del paesaggio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico delle Isole Egadi - Beni paesaggistici	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/CACHED/ortofoto14cm_Messina_ata20122013/MapServer/WMSServer	Ortofoto 15cm Area urbanizzata di Messina ATA 2012-2013 - WGS84 Web Mercatore	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/CACHED/ortofoto_ata20122013_webmercator/MapServer/WMServer	Ortofoto Regione Siciliana ATA 2012-2013 - WGS84 Web Mercatore	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Componenti_Paesaggio/MapServer/WMServer	Piano Paesaggistico di Trapani - Ambito 1 - Componenti del paesaggio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Regimi_Normativi/MapServer/WMServer	Piano Paesaggistico di Trapani - Ambito 1 - Regimi normativi	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico di Trapani - Ambito 1 - Beni paesaggistici	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/CACHED/ortofoto_agea2010_webmercator/MapServer/WMServe	Ortofoto Regione Siciliana AGEA 2010 - WGS84 / Pseudo-Mercator	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Beni_Paesaggistici/MapServer/WMSServer	Piano Paesaggistico delle Isole Pelagie - Beni paesaggistici	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico delle Isole Pelagie - Componenti del paesaggio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico delle Isole Pelagie - Regimi normativi	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Regimi_Normativi/MapServer/WMSServer	Piano Paesaggistico di Siracusa - Regimi normativi	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Componenti_Paesaggio/MapServer/WMSServer	Piano Paesaggistico di Siracusa - Componenti del paesaggio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico di Siracusa - Beni paesaggistici	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolosità_Agg_f33/MapServer/WMServer	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Pericolosità da frana - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_Agg_f33/MapServer/WMServer	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Dissesti - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_Agg_f33/MapServer/WMServer	P.A.I. Sicilia - Aggiornamenti - Geomorfologia - Rischio da frana - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Regimi_Normativi/MapServer/WMServer	Piano Paesaggistico di Agrigento - Regimi normativi	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Componenti_Paesaggio/MapServer/WMServer	Piano Paesaggistico di Agrigento - Componenti del paesaggio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Beni_Paesaggistici/MapServer/WMServer	Piano Paesaggistico di Agrigento - Beni paesaggistici	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/BACINI_IDROGRAFICI_ENNA/MapServer/WMServer	Bacini idrografici territorio provinciale Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_10000_f33/MapServer/WMServer	CARTA dell'USO del SUOLO (CLC) della Regione Siciliana - scala 1:10.000 - UTM	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

	WGS84 33N							
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Carta_ReteEcologica_f33/MapServer/WMSServer	Carta della Rete Ecologica Siciliana - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/SIC_ZPS_f33/MapServer/WMSServer	Siti di importanza comunitaria (SIC) e Zone di protezione Speciale (ZPS) - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/SIC_ZPS/MapServer/WMSServer	Siti di importanza comunitaria (SIC) e Zone di protezione Speciale (ZPS) - GAUSS BOAGA	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/PDG/PDG_BoschiResidui/MapServer/W	Piano di Gestione Residui boschivi e	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes

MSServer	zone umide dell'ennese-palermitano							
http://www.provincia.enna.sitr.it/ArcGIS/services/Intervisibilita/MapServer/WMSServer	Carta dell'intervisibilità del territorio della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.comune.agrigento.sitr.it/ArcGIS/services/Agrigento-Catasto/MapServer/WMSServer?	Catasto Agrigento - GAUSS BOAGA	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/VINCOLI_SISTEMA ANTROPICO-AMBIENTALE_EN/MapServer/WMSServer	Vincoli del Sistema Antropico-Ambientale della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMServer	Patrimonio Archeologico, Storico ed Architettonico della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.trapani.sitr.it/ArcGIS/services/ArcheologieTrapani	Aree Archeologiche Trapani	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

apani/MapServer/WMSServer								
http://www.provincia.enna.sitr.it/ArcGIS/services/RETICOLO_IDROGRAFICO_ENNA/MapServer/WMSServer	Reticolo Idrografico della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_base	Carta Tecnica scala 1:10.000 - Comune di Acireale - GAUSS BOAGA	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_catasto	Catasto Fabbricati e Terreni - Comune di Acireale - GAUSS BOAGA	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_vincoli	Carta dei vincoli - Comune di Acireale - GAUSS BOAGA	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sitr.comune.acireale.ct.it/ows/acireale/acireale_prg	Piano Regolatore Generale -	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

	Comune di Acireale - GAUSS BOAGA							
http://www.provincia.enna.sitr.it/ArcGIS/services/CARTA_NATURA_TIPO_PAESAGGI/MapServer/WMSServer	Carta Natura Tipi di Paesaggio della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/CARTA_NATURA_UNITA_PAESAGGIO/MapServer/WMSServer	Carta Natura Unità di Paesaggio della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/LIMITI_AMMINISTRATIVI/MapServer/WMSServer	Limiti amministrativi comunali della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.enna.sitr.it/ArcGIS/services/BOSCHI_ENNA/MapServer/WMSServer	Boschi della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://151.8.208.34/cgi-bin/mapserv.exe?map=/ms4w/data/map/adrano_vincoli.map	Carta dei Vincoli - Comune di Adrano - GAUSS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

	BOAGA							
http://www.provincia.enna.sitr.it/ArcGIS/services/PARCHI_E_RISERVE/MapServer/WMSServer	Parchi e Riserve della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Parchi_Riserve_f33/MapServer/WMSServer	Parchi e Riserve - Regione Sicilia - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/Toponimi_IGM25000_f33/MapServer/WMSServer	Toponimi IGM 1:25.000 - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.trapani.sitr.it/ArcGIS/services/Aree_protette_WGS84/MapServer/WMSServer	Aree Protette Provincia di Trapani - UTM WGS84	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/WGS84_F33/ISTAT_LimitiAmministrativi_2011/MapServer/WMSServer	Limiti Amministrativi 2011 ISTAT - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_DLGS_227_01/MapServer/WMS_Server	Carta forestale regionale siciliana	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_LR_19_96/MapServer/WMS_Server	Carta forestale regionale siciliana	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CATEGORIE_FORESTALI/MapServer/WMS_Server	Carta forestale regionale siciliana	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_CF_CLASSI_INVENTARIALI/MapServer/WMS_Server	Carta forestale regionale siciliana	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_AREE_ECOLOGICAMENTE_OMOGENEE/MapServer/WMS_Server	Aree ecologicamente omogenee	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_VINCOLO_IDROGEOLOGICO/MapServer/WMS_Server	Vincolo Idrogeologico	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

http://sif.regione.sicilia.it/sifgis/services/SIF_WMS_BOSCHI_VETUSTI/MapServer/WMSServer	Boschi vetusti	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.agrigento.sitr.it/ArcGIS/services/SIC_ZPS/MapServer/WMSServer	Siti di importanza comunitaria (SIC) e Zone di protezione speciale (ZPS) nella Regione Sicilia - (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ImpBirdAreas/MapServer/WMSServer	IBA - Important Bird Area, aree importanti per gli uccelli (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

http://www.provincia.agrigento.sitr.it/ArcGIS/services/RD3267idrogeol/MapServer/WMS/Server	Vincolo idrogeologico ex R.D. 3267 del 1923 - provincia AG (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ComuniSicilia/MapServer/WMS/Server	Territori comuni della Sicilia (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.agrigento.sitr.it/ArcGIS/services/IGM50K/MapServer/WMS/Server	Raster - Cartografia IGMI 1:50000 del territorio della Provincia di Agrigento (coord. UTM-WGS84 fuso 33)	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

http://www.provincia.enna.sitr.it/ArcGIS/services/PATRIMONIO_ARCHEOLOGICO_STORICO_ARCHITETTONICO_EN/MapServer/WMS_Server	Aree di interesse paesaggistico della Provincia di Enna	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Sismicita_storica_wgs84/MapServer/WMS_Server	Sismicità storica - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://webgis.protezionecivilesicilia.it/arcgis/services/WGS84/MS_ex_OPCM3278-2003_Geologia_Faglie_wgs84/MapServer/WMS_Server	Geologia e faglie - Microzonazione sismica del versante orientale dell'Etna (OPCM 3278/2003)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.trapani.sitr.it/ArcGIS/rest/services/Usosuolo_natura_2000_wms/MapServer	Uso del suolo Aree "Natura 2000" Provincia di Trapani	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region e.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_AGG-2008_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region e.sicilia.it/ArcGIS/services/WGS84_F33/IGM_25000_Raster_f33/MapServer/WMSserver	IGM 1:25.000 Raster - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region e.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - Raster B/N - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region e.sicilia.it/ArcGIS/services/WGS84_F33/CTR_10000_Raster_AGG-2008_f33/MapServer/WMSserver	Carta Tecnica Regionale scala 1:10.000 - ediz.2008 - Raster B/N - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Quickbird_2006-2007_f33/MapServer/WMServer	Immagini satellitari Quickbird 2006-2007 - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/PRG_NODI_SITR_f33/MapServer/WMServer	Piani Regolatori Generali - Nodi Comunali SITR - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Dissesti_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Dissesti - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Pericolosita_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Pericolosità da frana - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_Rischio_f33/MapServer/WMServer	P.A.I. Sicilia - Geomorfologia - Rischio da frana - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Geomorfologia_SitiAttenzione_f33/MapServer/WMSServer	P.A.I. Sicilia - Geomorfologia - Siti Attenzione - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Rischio_f33/MapServer/WMSServer	P.A.I. Sicilia - Idraulica - Rischio Idraulico - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Pericolosita_f33/MapServer/WMSServer	P.A.I. Sicilia - Idraulica - Pericolosità Idraulica - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_SitiAttenzione_f33/MapServer/WMSServer	P.A.I. Sicilia - Idraulica - Siti Attenzione - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/PAI_F33/Idraulica_Esondazione_f33/MapServer/WMSServer	P.A.I. Sicilia - Idraulica - Esondazione - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_IT2000_f33/MapS	Ortofoto IT2000 - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.sicilia.it	Regione Sicilia	Yes

erver/WMSserver								
http://map.sitr.region.e.sicilia.it/ArcGIS/services/IGM_50000_Raster/MapServer/WMSserver	IGM 1:50.000 Raster B/N - GAUSS BOAGA	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/CTR_LimitiAmministrativi_f33/MapServer/WMSserver	Limiti Amministrativi C.T.R. scala 1:10.000 - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Ortofoto_ATA20072008_f33/MapServer/WMSserver	Ortofoto ATA 2007-2008 - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Carta_Natura_f33/MapServer/WMSserver	Carta Natura - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region.e.sicilia.it/ArcGIS/services/WGS84_F33/Carta_UsoSuolo_f33/MapServer/WMSserver	Carta dell'uso dei suoli - UTM WGS84 33N	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.region.e.sicilia.it	Regione Sicilia	Yes

http://map.sitr.region e.sicilia.it/ArcGIS/services/CTN_2000_Raster /MapServer/WMSServ er	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - GAUSS BOAGA	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.re gione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region e.sicilia.it/ArcGIS/services/WGS84_F33/CTN_2000_Raster_f33/Map Server/WMSServer	Carta Tecnica Numerica scala 1:2.000 - Raster B/N - UTM WGS84 33N	*****	Raster	Fully accessible	NO Restrictions	http://www.sitr.re gione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.region e.sicilia.it/ArcGIS/services/CART_2000/Fogli_ cartografati/MapServe r/WFSServer	Carta Tecnica Numerica scala 1:2.000 - Fogli Cartografati - Servizio WFS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.re gione.sicilia.it	Regione Sicilia	Yes
tp://map.sitr.regione.s icilia.it/ArcGIS/service s/CART_2000/Numeri _Civici/GeoDataServer /WFSServer	Carta Tecnica Numerica scala 1:2.000 - Numeri Civici - Servizio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.re gione.sicilia.it	Regione Sicilia	Yes

	WFS							
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/TP_Ambito1_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Trapani - Ambito 1 - Servizio WFS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Pelagie_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Pelagie - Servizio WFS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/Egadi_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico delle Isole Egadi - Servizio WFS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/SR_Geodata/GeoDataServer/WFSServer	Piano Paesaggistico di Siracusa - Servizio WFS	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://map.sitr.regione.sicilia.it/ArcGIS/services/BCC_PIANI_PAESAGGISTICI/AG_Geodata/GeoDataServer/WFSS	Piano Paesaggistico di Agrigento - Servizio	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes

erver	WFS							
http://www.provincia.agrigento.sitr.it/ArcGIS/services/ImpBirdAreas/MapServer/WFSServer	IBA - Important Bird Area, aree importanti per gli uccelli (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://www.provincia.agrigento.sitr.it/ArcGIS/services/RD3267idrogeol/MapServer/WFSServer	Vincolo idrogeologico ex R.D. 3267 del 1923 - provincia AG (coord. UTM-WGS84 fuso 33)	*****	Vector	Fully accessible	NO Restrictions	http://www.sitr.regione.sicilia.it	Regione Sicilia	Yes
http://webgis.regione.sardegna.it/geoserver/ows	Vari tematismi	*****	Vector	Autenticazione necessaria	NO Restrictions		Regione Sardegna	?
http://webgis.regione.sardegna.it/geoserver/wfs	Vari tematismi	*****	Vector	Autenticazione necessaria	NO Restrictions		Regione Sardegna	?
http://www.cartografia.servizirl.it/arcgis/ser	Carta Tecnica	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lom	Regione Lombardia	Yes

vices/wms/ctr_wms/MapServer/WMSServer	Regionale 1:10000 aggiornata dai Database Topografici - WMS					bardia.it		
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ctr_wms/MapServer/WMSServer	Carta Tecnica Regionale 1:10000 ed. 1980-94 servizio WMS	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/dusaf21/MapServer/WMSServer	DUSAF 2.1 - Uso suolo 2007 - Servizio di mappa WMS	*****	Vector	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/ortofoto2012_wms/MapServer/WMSServer	Ortofoto AGEA 2012 (WMS)	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
http://www.cartografia.regione.lombardia.it/ArcGISIT2/services/PGT/tav_previsioni_b/MapServer/WMSServer	PGT - Tavola delle Previsioni di Piano - WMS	*****	Vector	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes

http://www.cartografia.servizirl.it/arcgis/services/ambiente/Rete_e_infrastrutture_del_sottosuolo_WMS/MapServer/WMSServer	Reti e infrastrutture del sottosuolo - WMS	*****	Vector	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/fisica_wms/MapServer/WMSServer	Mappa fisica - Servizio di Mappa WMS	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
http://www.cartografia.regione.lombardia.it/ArcGIS10/services/wms/politica_wms/MapServer	Mappa politica - Servizio di Mappa WMS	*****	Raster	Fully accessible	NO Restrictions	http://www.cartografia.regione.lombardia.it	Regione Lombardia	Yes
https://www.dati.lombardia.it/resource/4gej-rwsm.json	Mappe Negozi e Locali Storici	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/iu2c-9p5j.json	Mappa musei	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/hi38-chs9?method=export&format=Shapefile	Mappa Distretti Urbani del Commercio Riconosciuti da Regione Lombardia	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/u8qe-3an8.json	Mappa fattorie didattiche lombarde	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?

https://www.dati.lombardia.it/resource/jayn-vsw3.json	Mappa Mercati Storici	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/dr3-2qjn.json	Mappa Registro Regionale Sonde Geotermiche	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/3d7p-g83c.json	Mappa elenco regionale degli agriturismo	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/h662-8bn8.json	Mappa strutture ricettive alberghiere e extra-alberghiere	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/dia7-79gf.json	Mappa punti di interesse progetto Garda bresciano	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/d9mg-gia6?method=export&format=Shapefile	Comune Bergamo - Mappa ZTL	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?

https://www.dati.lombardia.it/api/geospatial/4bb9-k356?method=export&format=Shapefile	Mappa classificazione sismica dei comuni lombardi	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/8ux9-ue3c.json	Mappa Stazioni Meteorologiche	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/efh9-eyd6?method=export&format=Shapefile	Limiti amministrativi 2014 delle province di Regione Lombardia	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/bf55-y6y4.json	Mappa istituzioni scolastiche e scuole statali	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Stradario e Fabbricati	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/6nzbq-m2cw.json	01	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/6y9j-zbn6.json	Mappa punti di interesse progetto	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?

	Villa Reale Monza							
https://www.dati.lombardia.it/resource/78qi-2hyx.json	Agri-Lecco	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/562w-jc3b?method=export&format=Shapefile	CM Tirano numeri civici	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/kq4w-c83t?method=export&format=Shapefile	Aree omogenee per rischio neve	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/tdqc-xh3g.json	CM Tirano Civici Fabbricati Stradario	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/b794-fvxp?method=export&format=Shapefile	Aree omogenee per rischi naturali	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/72wv-3r68.json	Mappa rete monitoraggio corsi acqua	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/ds2z-s86c?method=export	Aree omogenee rischio valanghe	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?

&format=Shapefile								
https://www.dati.lombardia.it/api/geospatial/rn86-mwpmf?method=export&format=Shapefile	Parchi Seveso Comuni	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/9kfm-35pn?method=export&format=Shapefile	CM Tirano Toponomastica completa	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/xs58-d3hi?method=export&format=Shapefile	Aree omogenee per rischio incendi boschivi	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/wx72-53nz.json	Mappa rete monitoraggio laghi	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/resource/7u4b-rc7c.json	COMUNE PIOLTELLO MAPPA SERVIZIO BIKE SHARING	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
https://www.dati.lombardia.it/api/geospatial/hxvd-52zt?method=export&format=Shapefile	PROVINCIA MONZA BRIANZA Beni culturali	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?

https://www.dati.lombardia.it/resource/vqd8-hab4.json	Musei progetto garda bresciano	**	Vector	Fully accessible	NO Restrictions	https://www.dati.lombardia.it/	Regione Lombardia	?
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VH processing				
Data Processing	Input	Output	API availability	Info link
No				

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
No					

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link
A semantic service to be developed	Ontology	RDF probably	

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>Agriculture, Biodiversity and Landscape; Urban development and transformation</p>			
	<p>EU Policy (Eu Directives, ..)</p>	<p>National Policy</p>	<p>International Policy</p>	<p>Regional Policy</p>
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	<p>INSPIRE Directive; Common Agriculture Policy; Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Habitat Directive); European Landscape Convention; European Convention on the Protection of the Archaeological Heritage.</p>	<p>Codice dei Beni culturali e del paesaggio " (Codice Urbani). Translation: Codex on Culturale Heritage and Landscape (Urbani Codex) - Legislative Deree Jan 22 2004, n. 42</p>	<p>World heritage Convention (WHC)</p>	<p>Piano Paesaggistico Regionale - Piano Territoriale Regionale (PTR) Translation: Regional Plan for Landscape - section of Regional Territorial Plan of Lombardy Region, http://webbox.lispa.it/PTR-2/Volumi/pdf/volume3/Volume%201_Relazione/3PTR_PPR_Relazione.pdf;</p>

	Answer
1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?	Territorial management is increasingly giving attention to landscape and ecosystems management as a whole. The GeoPan Atl@s app will allow retrieval and access of valuable information on landscape regarding natural present and past cultivations, biodiversity aspects, environmental and man-built traces to preserve, ancient and current river-beds and many more. The app will provide an interactive and case-specific Spatial Data Infrastructure (SDI) that will actively contribute to INSPIRE Directive on a more general level. More specifically, GeoPan App will attempt to tackle some specific national and regional prescriptions on cultural heritage and cultural landscapes as well as aspects such as agriculture, water courses and environment on a more EU/international scale.

A.European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity	YES	One of the main challenges of the agriculture sector is the environmental one i.e. issues relating to resource efficiency, soil and water quality and threats to habitats and biodiversity. These challenges will be tackled through CAP and through activities of EIP AGRI. GeoPan will give valuable information in terms of quantitative and qualitative indicators to both policy makers but also to users such as farmers or agencies for environment protection. Also, GeoPan functionalities could be of use in aspects of Rural Development Policies (e.g.	ecology; water&agriculture; landscape features; landscape management

		4.restoring, preserving and enhancing ecosystems related to agriculture and forestry; 5.promoting resource efficiency; 6.promoting social inclusion, poverty reduction and economic development in rural areas).	
Smart Cities and Communities	YES		participatory approach; better planning; energy management
Water and Raw Materials			

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;			
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;	Yes	GeoPan will explore the potentials of integrating the past and the current geographic information in order to give a better insight on proper/improper interventions on the territory and the urban context. Emphasis will be given to the use of soil and land in terms of sustainable use and management of natural resources and ecosystems. In particular, the variations of ancient river-beds and of ancient agricultural species cultivation will be mapped to highlight	resource efficiency; inland waters; climate change; biodiversity; landscape management; eco-systems;

		the changes both in natural context and human habits.	
Europe in a changing world - inclusive, innovative and reflective societies;	Yes	GeoPan app is conceived a highly interactive instrument that will depend on volunteered information, often coming from the users themselves. Hence, it will attempt a direct engagement of citizens, civil society organisations and enterprises interested in built heritage and landscape, in order to foster the development of more innovative societies. GeoPan will strongly contribute to the Digital Heritage and to new richer interpretations of EU culture as a whole. GeoApp is intensely motivated to stimulate new market solutions regarding the management of the landscape and territory.	creative awareness; digital heritage; economic growth; innovation policies; inclusive and reflective societies
Secure societies - protecting freedom and security of Europe and its citizens.	Yes	GeoPan will rely on a dynamic Spatial data Infrastructure dedicated to environment that could have a twofold function: 1) act as an alarm tool (e.g. in case of improper building or a natural anomaly in a river flow or other); 2) safety-signal tool to be implemented in case of major disaster events like floods, fires, landslides, earthquake etc. (e.g. to communicate that a person or a house or another asset is safe and can be localized or contacted).	disaster-resilience; erosion; inland waters; floods;

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture	YES	GeoPan can be very useful tool in terms of land use and land cover change, especially when it comes to high resolution and in-situ data. In particular, the changes in the extent and severity of land degradation and desertification could be monitored that could largely contribute to Agriculture SBA of GEOSS.	
Biodiversity	YES	GeoPan can contribute to the taxonomic and spatial gaps to be filled	

		for the topic of Biodiveristy, in particular when it comes to monitoring the condition and extent of ecosystems and distribution and status of species. GeoPan will give a specific focus to agricultural and forestry areas. The app-lication will attempt to contribute to increase the rhythm of information collection and dissemination among end-users.	
Climate			
Disasters			
Ecosystems	YES	GeoPan will make a contribution towards a better harmonized and shared observations regarding natural resources, in particular the terrestrial and coastal areas (e.g. Lake of Como and Albenga riverbeds). The app can contribute to spatial and topical gaps to be filled. Particular importance will be given to a better and more coherent integration of <i>in situ</i> data with space-based observations. The area, condition, and natural resource stock levels in ecosystems such as forests, rangelands, and inland waters will be examined and monitored, giving valuable input to methodologies and observations to detect, monitor and predict changes in ecosystem condition and to define resource potentials and limits.	
Energy			
Health			
Water	YES	GeoPan will not tackle the whole water cycle. However, the app will be extremely useful regarding the indicators such as streamflow, lake and reservoir levels, snow cover, groundwater routes and also possibly the water quality and water use. GeoPan could contorbute to the collection and use of hydrological observations where these are lacking so as to integrated in-situ networks and other data collected automatically.	
Weather			

	YES/NO	Name
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D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.	YES	Urban Atlas initiative
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Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	YES	GeoPan will use informtions coming from the world of geomatic communitis and gographic portals at national/regional/local level. This way Geopan will help these coommunities to increase the use of open cartography.	
Volunteered GI communities	YES	GeoPan functionalities regard landscape and built environment, combining hence data (facts) with experience (involvement of communities). GeoPan will build upon the information deriving from volunteered information datasets, in particular those regarding historic cartography and integration with current data. On the other side, GeoPan will provide info not only regarding the location but the extensive geographical/historical context of a given landscape. As it deals with landscape layers and hence heritage and identity of a place and people, GeoPan could make a significant contribution to community based Web 2.0 and collaborative engagement of participants in a shared project.	
Open data network	YES	Geopan will built upon open geographical data using thus the information of the Open data network on regional and national level, in the framework of PSI Directive. Particular attention will be given to the historic cartographic information useful to detect information such as ancient traces of riverbeds, dry walls and terraces, agricultural species and so forth. In this sense, GeoPan Atlas will	

		possibly contribute with relevant information of geo-historical context. Integrated data on land cover and possible changes in landscape can contribute to a more informed decision making on land use, as suggested by the Open Data communication.	
SMEs	YES	Awareness raising towards the territory as resource for economical growth will be fostered through GeoPan. Entrepreneurial skills of existing SMEs but also of common citizens (e.g. craftsmen, local bio-producers, bio-farmers) could be stimulated so they could advertise their product through GeoPan or use GeoPan information for their own businesses.	
PAs	YES	GeoPan functions will be able to contribute directly to the territorial management in general and to landscape management in particular, putting focus on the historic information that is not used by professional sufficiently. This app will foster a more informed decision making, tailored to the real needs of the territory, in combination with public policies.	
Citizen (for example, elderly, youngsters, students, tourists)	YES	Enriched information about the changes of landscapes will give significant contribution for visitors and tourists about both natural environment and cultural aspects, agricultural species cultivated in the past (or currently), inland waters etc. It will be possible to explore the activities around these main territorial features and hence connect in a more direct way to the socio-economic aspects and with identity of a specific location.	
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?	<p>PROFESSIONAL: Professional users could benefit from GeoPan mainly for in-situ data provided in addition to those collected by the local stations. GeoPan App can provide a better context (geographical and historical) to the data collected.</p> <p>CITIZENS/TOURISTS/STUDENTS: GeoPan App interprets the needs of Public Authorities to perform a better and more efficient territorial management. To do so, not only current information (facts) are needed. These data have often very particular context that needs to be presented in both space and time, with a resolution that allows model making, scenario simulations and hence thematic interpretation. In this sense, GeoPan will try to tackle needs regarding geographic position, the description of landscape and illustration of changes over time. Furthermore, GeoPan will foster new needs for knowledge and desire to establish a better connection with the landscape and with the built environment it hosts. Special attention will be given to the non-professional users and common citizens.</p>		

A9 - GEODEMOS (SRP)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://fbinter.stadt-berlin.de/fb/csw	FIS-Broker CSW-Service SenStadtUm Berlin	CSW	2.0.2	ISO 19115 / 19119	CSW	2.0.2	-
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_brw2015	Bodenrichtwerte 01.01.2015	CSW	2.0.2	ISO 19115 / 19119	WFS	1.1.1	text/xml; subtype=gml/2.1.2 text/xml; subtype=gml/3.1.1 text/xml; subtype=gml/3.2.1
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_gruenfl	Grünanlagenbestand Berlin	CSW	2.0.2	ISO 19115 / 19119	WFS	1.1.1	text/xml; subtype=gml/2.1.2 text/xml; subtype=gml/3.1.1 text/xml; subtype=gml/3.2.1
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_spielplatz	Grünanlagenbestand Berlin	CSW	2.0.2	ISO 19115 / 19119	WFS	1.1.1	text/xml; subtype=gml/2.1.2 text/xml; subtype=gml/3.1.1 text/xml; subtype=gml/3.2.1
http://fbinter.stadt-berlin.de/fb/wms/senstadt/bplan	Bebauungspläne, vorhabenbezogene Bebauungspläne (Geltungsbereiche)	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png

http://fbinter.stadt-berlin.de/fb/wms/senstadt/brw_2015_amtlich	Bodenrichtwerte 01.01.2015	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/denkmal	Denkmalkarte Berlin	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/kluftbild2014	Digitale farbige Orthophotos 2014 (DOP20RGB)	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/fnp_2015	FNP (Flächennutzungsplan Berlin), Stand Neubekanntmachung 2015	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gruengruen	Grünanlagenbestand Berlin	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/sanier	Sanierungsgebiete	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gruenspielplatz	Spielplatzbestand Berlin	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/Ms_ozS_K09_2012	Wohnlagenkarte nach Adressen zum Berliner Mietspiegel 2015	CSW	2.0.2	ISO 19115 / 19119	WMS	1.3.0	image/jpeg image/png
www.berlin.de/badegewaesser/baden-details/index.php/index/all.kml?q=	Liste der Badestellen (Badegewässerqualität)	-	-	-	HTTP	-	kml

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://fbinter.stadt-berlin.de/fb/csw	FIS-Broker CSW-Service SenStadtUm Berlin	-	-	CSW
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_brw2015	Bodenrichtwerte 01.01.2015	NO	Both	GML / geoJSON
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_gruenfl	Grünanlagenbestand Berlin	NO	Both	GML / geoJSON
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_spielplatz	Grünanlagenbestand Berlin	NO	Both	GML / geoJSON
http://fbinter.stadt-berlin.de/fb/wms/senstadt/bplan	Bebauungspläne, vorhabenbezogene Bebauungspläne (Geltungsbereiche)	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/brw_2015_amtlich	Bodenrichtwerte 01.01.2015	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/denkmal	Denkmalkarte Berlin	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/k_luftbild2014	Digitale farbige Orthophotos 2014 (DOP20RGB)	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/fnp_2015	FNP (Flächennutzungsplan Berlin), Stand Neubekanntmachung 2015	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gris_oeffgruen	Grünanlagenbestand Berlin	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/sanier	Sanierungsgebiete	YES (EPSG:3068 -> EPSG:25833)	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gris_spielplatz	Spielplatzbestand Berlin	NO	Both	image/png
http://fbinter.stadt-berlin.de/fb/wms/senstadt/MsozS_K09_2012	Wohnlagenkarte nach Adressen zum Berliner Mietspiegel 2015	NO	Both	image/png
www.berlin.de/badegewaesser/baden-details/index.php/index/all.kml?q=	Liste der Badestellen (Badegewässerqualität)	YES (EPSG:4326 -> EPSG:25833)	Both	KML / geoJSON

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://fbinter.stadt-berlin.de/fb/csw	FIS-Broker CSW-Service SenStadtUm Berlin			Fully accessible	-	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_brw2015	Bodenrichtwerte 01.01.2015	*****	Vector	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_gruenfl	Grünanlagebestand Berlin	*****	Vector	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wfs/geometry/senstadt/re_spielplatz	Grünanlagebestand Berlin	*****	Vector	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/bplan	Bebauungspläne, vorhabenbezogene Bebauungspläne (Geltungsbereiche)	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/brw_2015_amtlich	Bodenrichtwerte 01.01.2015	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/denkmal	Denkmalkarte Berlin	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/digitale	Digitale	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES

berlin.de/fb/wms/senstadt/k_luftbild2014	farbige Orthophotos 2014 (DOP20RGB)		grid	accessible	cklung.berlin.de/geoinformation/download/nutzIII.pdf	twicklung.berlin.de/geoinformation/	(Germany)	
http://fbinter.stadt-berlin.de/fb/wms/senstadt/fnp_2015	FNP (Flächennutzungsplan Berlin), Stand Neubekanntmachung 2015	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gris_oeffgruen	Grünanlagenbestand Berlin	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/sanier	Sanierungsgebiete	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/gris_spielplatz	Spielplatzbestand Berlin	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
http://fbinter.stadt-berlin.de/fb/wms/senstadt/MsozS_K09_2012	Wohnlagenkarte nach Adressen zum Berliner Mietspiegel 2015	*****	Raster / grid	Fully accessible	http://www.stadtentwicklung.berlin.de/geoinformation/download/nutzIII.pdf	http://www.stadtentwicklung.berlin.de/geoinformation/	Berlin (Germany)	YES
www.berlin.de/badegewaesser/baden-details/index.php/index/all.kml?q=	Liste der Badestellen (Badegewässerqualität)	***	Vector	Fully accessible	http://creativecommons.org/licenses/by-sa/3.0/de/	http://daten.berlin.de/	Berlin (Germany)	NO

VH processing				
Data Processing	Input	Output	API availability	Info link
Address service if applicable				

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
N crowdsourcing is not needed by the pilot					

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?• Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention)</p> <ul style="list-style-type: none"> • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>Urban development, NOise pollution, social evolution of urban spaces</p>			
	<p>EU Policy (Eu Directives, ..)</p>	<p>National Policy</p>	<p>International Policy</p>	<p>Regional Policy</p>
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	<p>INSPIRE (for data access)</p>			
	<p>Answer</p>			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	<p>with the current state of knowledge: not relevant</p>			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging	NO		
Agricultural Sustainability and Productivity	NO		
Smart Cities and Communities	NO		
Water and Raw Materials	NO		

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;	NO		
Secure, clean and efficient energy;	NO		
Smart, green and integrated transport;	NO		
Climate action, environment, resource efficiency and raw materials;	NO		
Europe in a changing world - inclusive, inNOvative and reflective societies;	NO		
Secure societies - protecting freedom and security of Europe and its citizens.	NO		

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture	NO		
Biodiversity	NO		
Climate	NO		
Disasters	NO		
Ecosystems	NO		
Energy	NO		
Health	NO		
Water	NO		
Weather	NO		

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.		

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	NO		
Volunteered GI communities	NO		
Open data network			
SMEs			
PAs			
Citizen (for example, elderly, youngsters, students, tourists)	YES	whoever. mobile Europeans who are looking for a suitable place of residence	Not the daily usage is the goal, but the support for the election of a pleasant residence, where you every day feels comfortable. This means that after the use of the app every day is nice for the user.
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			

A10 - SENSOR OPEN DATA PORTAL, INTERNET OF THINGS (ALKANTE)

Applications and services: requirements and specifications

Information for Virtual Hub data discovery/access							
Data endpoint	Assigned name (data source name)	Service Protocol (for discovery)	Service Protocol Version (for discovery)	Metadata standard profile	Service Protocol (for access)	Service Protocol Version (for access)	Data format
http://tile.openstreetmap.fr/	OSM France	-	-	-	TMS, Tile service	1.3	-
http://bano.openstreetmap.fr/data/ (french national open address database)	BANO France	-	-	-	HTTP	-	SHP, CSV
http://tile.geobretagne.fr/gwc02/service/wmts	Satellite Brittany, France	CSW	2.0.2		WMTS	1.0	-
http://carto.sigloire.fr/cgi-bin/mapserv	Water Sensor Network, Pays De La Loire, France	CSW	2.0.2	ISO 19115/19139	WMS	1.3	-
http://services.sandre.eaufrance.fr/geo/eth_FXX?	Hydrography BD Carthage France	CSW	2.0.2	ISO 19115/19139	WMS/WFS	1.3/1.1	WFS, SHP, MIF/MID

Information for VH/Pilot interaction				
Data endpoint	Assigned name	Data harmonization	Interface with VH	Service interface(s) and data format(s)
http://tile.openstreetmap.fr/	OSM France	NO	Client-side API	WMS
http://baNO.openstreetmap.fr/data/ (french national open address database)	BANO France	NO	Client-side API	WFS, geoJSON
http://tile.geobretagne.fr/gwc02/service/wmts	Satellite Brittany, France	NO	Client-side API	WMTS
http://carto.sigloire.fr/cgi-bin/mapserv	Water Sensor Network, Pays De La Loire, France	NO	Client-side API	WMS
http://services.sandre.eaufrance.fr/geo/eth_FXX?	Hydrography BD Carthage France	NO	Client-side API	WMS

General Information about the data to be brokered by VH								
Data endpoint	Assigned name	Degree of data openness	Data typology	Accessibility	Availability	Source portal	Geographic coverage	Metadata availability
http://tile.openstreetmap.fr/	OSM France	****	Vector	Fully accessible	NO	http://openstreetmap.fr	France	NO
http://bano.openstreetmap.fr/data/ (french national open address database)	BANO France	***	Vector	Fully accessible	NO	http://bano.openstreetmap.fr/	France	NO
http://tile.geobretagne.fr/gwc02/service/wmts	Satellite Brittany, France	****	Raster	Fully accessible	NO	http://cms.geobretagne.fr/services	Britanny, France	YES
http://carto.sigloire.fr/cgi-bin/mapserv	Water Sensor Network, Pays De La Loire, France	****	Vector	Fully accessible	NO	http://catalogue.sigloire.fr/catalogue/	Pays de la Loire, France	YES
http://services.sandre.eaufrance.fr/geo/eth_FXX?	Hydrography BD Carthage France	****	Vector	Fully accessible	NO	http://www.sandre.eaufrance.fr/atlascatalogue	France	YES

VH processing				
Data Processing	Input	Output	API availability	Info link

Information about crowdsourcing (data publication through the VH)					
Use of crowdsourcing	Typology of use	Already existing service	Data source	Interface	API availability
NO crowdsourcing needed					

Virtual Hub Semantic services			
Semantic service to be added to VH	Typology	Interface	Info link

Thematic fields of applications and user needs

Section 1: National/EU/International Policy -APP development framework

Question	Answer			
<p>1. What is the thematic field of the Application?</p> <ul style="list-style-type: none"> • Agriculture, Biodiversity and Landscape (Common Agriculture Policy, Landscape Convention) • Inland water bodies and coastline monitoring (Water and Groundwater Framework Directives) • Urban development and transformation (Smart Cities and Urban Atlas initiatives, Energy Efficiency Directive, • Urban Heat Island (UHI) Effect, Retrofitting and Decarbonisation policies) • noise pollution in urban and semi-urban areas • Management of public transport between different agencies of a given area (city, region, etc.) • Geolocalization and accessibility of "public facilities", in particular for the aging society. 	<p>With respect to our data providers : environment, hydrology and Energy monitoring</p>			
	EU Policy (Eu Directives, ..)	National Policy	International Policy	Regional Policy
<p>1b. Does your app take into consideration any specific Directives of standards prescribed by your region/country/EU and which indicate ones? (E.g. INSPIRE directive, Water Groundwater Framework Directives, etc.). If relevant, please indicate specific articles.</p>	INSPIRE in using SWE standrads to make sensor data available			
	Answer			
<p>1.c If yes for, briefly describe (direct or indirect) impact you foresee that you app might bring to the abovementioned legislation?</p>	Facilitate the sensor data dissemination			

A. European Innovation Partnerships (EIPs) are a new approach to EU research and innovation. They are challenge-driven, focusing on societal benefits and a rapid modernisation of the associated sectors and markets. *For more info consult: http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=eip*

A. Thematic Taxonomy - List of themes (Eu EIPs)			A. Eu EIPs -APP Sub-Theme KEYWORDS
A.a. Does the field of application fall under (or crosses) one of the EIPs: Active and Healthy aging, Agricultural Sustainability and Productivity, Smart Cities and Communities, Water and Raw Materials? If yes, which one(s)?	YES/NO	Ab. If yes, briefly explain what could be the benefits of your app to the community of the EIP you refer to (max 500 characters). <i>If you choose, two or more EIPs, provide separate explanations.</i>	A.cAPP KEYWORD. Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EIPs, thinking to the possible added value of VH implementation</i>
Active and Healthy aging			
Agricultural Sustainability and Productivity			
Smart Cities and Communities	YES	help monitor measures form sensors	Energy monitoring
Water and Raw Materials	YES	help monitor measures form sensors	Water temperature monitoring

B. Societal challenges, as intended by **EU** and **Horizon2020**, will bring together resources and knowledge across different fields, technologies and disciplines, including social sciences and the humanities. These cover:

B. Thematic Taxonomy - List of themes (Eu Societal challenges)			B. Eu Societal Challenges - APP Sub-Theme KEYWORDS
Ba. Does your app tackle any of these challenges?	YES/NO	B.b. If yes, briefly describe in what manner (max. 500 characters)	B.cAPP KEYWORD. Eu Societal Challenges Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the EU societal challenges thinking to the possible added value of VH implementation</i>
Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy;			
Secure, clean and efficient energy;			
Smart, green and integrated transport;			
Climate action, environment, resource efficiency and raw materials;			
Europe in a changing world - inclusive, innovative and reflective societies;			
Secure societies - protecting freedom and security of Europe and its citizens.			

C. The Societal Benefit Areas (SBAs) are nine environmental fields of interest around which the Global Earth Observation System of Systems (GEOSS) project is exerting its efforts. These include:

C. Thematic Taxonomy - List of themes (SBAs - GEOSS)			C. SBAs GEOSS - APP Sub-Theme KEYWORDS
C.a. Do you think your app can contribute to one of these thematic fields? If yes, which ones?	YES/NO	C.b If yes, briefly describe in what manner? (max. 500 words)	C.cAPP KEYWORD. SBAs GEOSS Sub-Theme suggested for your APP domain and geographic development. <i>Provide 1 or more keyword related to the SBAs thinking to the possible added value of VH implementation</i>
Agriculture			
Biodiversity			
Climate			
Disasters			
Ecosystems			
Energy	YES	Help monitor energy consumption	Sensor, monitoring
Health			
Water	YES	Help monitor water temperature	Sensor, monitoring
Weather			

	YES/NO	Name
D. Are there any thematic fields covered by your app that are not represented by EIPs, the Societal challenges or Societal Benefit Areas? If yes, please name them.	NO	

Section 2: User communities and final user requirements

Question

2.1 Are there stakeholders that your application match? If yes, which ones?			
	Answer YES/NO	Description	How does your app make a difference in everyday life of people?
Professional geomatic community	YES	Local authorities having a geoportal can enrich the data they disseminate with sensor data provided in opendata or geomatic data formats	
Volunteered GI communities			
Open data network	YES	Bring sensor data into the opendata world	
SMEs	YES	SME providing sensors	Facilitates the dissemination of sensor measures
PAs			
Citizen (for example, elderly, youngsters, students, tourists)			
2.2 Describe in what manner your app tackles (or could tackle) the needs of different final users (single or communities)?			