

Policies for geographical data in the coastal and maritime zone management
Genova 24 Aprile 2012

Coastal dataset organisation in the MAREMED Regions

Corinna ARTOM Dipartimento Pianificazione Territoriale, Urbanistica

0.THE CONTEXT

INSPIRE Directive

OGC standards

National action over cartography data

Regional action over cartography data

“DATA FORUM” Brussels 2009

PRESENTATION



Yellow = Atlantic Ocean
Orange = Mediterranean Sea
Blue = Balkan/Black Sea
Pink = Baltic Sea
Green = North Sea
Pink/Blue = Islands

- ▶ Presentation
- ▶ Meetings and activities
- ▶ Documents
- ▶ Useful links

▶ Contacts:

CPMR
François DESRENTES, Director
E-mail: francois.desrentes@crpm.org ;
anne.lezin@crpm.org
Tel: + 33 2 99 35 40 50

Provence-Alpes-Côte d'Azur Region
Corine LOCHET - Maritime Affairs Dept
E-mail: clochet@regionpaca.fr

More information on the Aquamarina
"Data and Indicators" group (meetings,
documents...), by clicking on the following
link: [Data and Indicators](#)

<http://www.crpm.org/en/index.php?act=13,32,1>

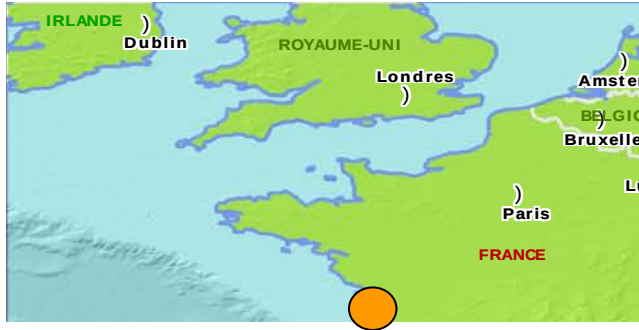
MAREMED

is developed within the framework of the creation of an integrated Mediterranean maritime policy (COM (2009) 466 final - 11.09.2009)

- Coordination of regional maritime policies, between themselves and with National, European and Mediterranean levels
- The project targets those of maritime policy bearing an intrinsic transnational dimension:
 - governance
 - integrated coastal zone management
 - pollution
 - adaptation to climate change in coastal zones
 - fishing
 - management of coastal and maritime data

The partnership with the CPMR allows the results to be shared with the fifty Regions of its inter-Mediterranean Commission; and with the other commissions

MAREMED PARTNERSHIP



MAritime REgions cooperation for MEditerranean

1.SURVEY ON PARTNERS SITUATION

QUESTIONNAIRE REDACTION

THE QUESTIONNAIRE WAS AIMED ESPECIALLY TO KNOW WHETHER THE ADMINISTRATIONS HAVE A DATA MANAGEMENT AND HAVE DATA ON THE DIFFERENT MAREMED TOPICS

11 PARTNERS FROM 5 COUNTRIES ANSWERED

1.SURVEY ON PARTNERS SITUATION

QUESTIONNAIRE REDACTION

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1.SURVEY ON PARTNERS SITUATION

ALMOST ALL HAVE A SDI FOR THE DATA MANAGEMENT, INTERNAL OR EXTERNAL, AT REGIONAL OR NATIONAL LEVEL OR IN ASSOCIATION FOR DIFFERENT ADMINISTRATIONS (CRIGE)

BUT DATA ARE OFTEN DISPERSED AMONG DIFFERENT STRUCTURES

SOME KIND OF DATA, AS FOR FISHING, ARE NOT AVAILABLE FOR OTHER USES

SOME, AS FOR OIL SPILL POLLUTION, ARE NOT MANAGED

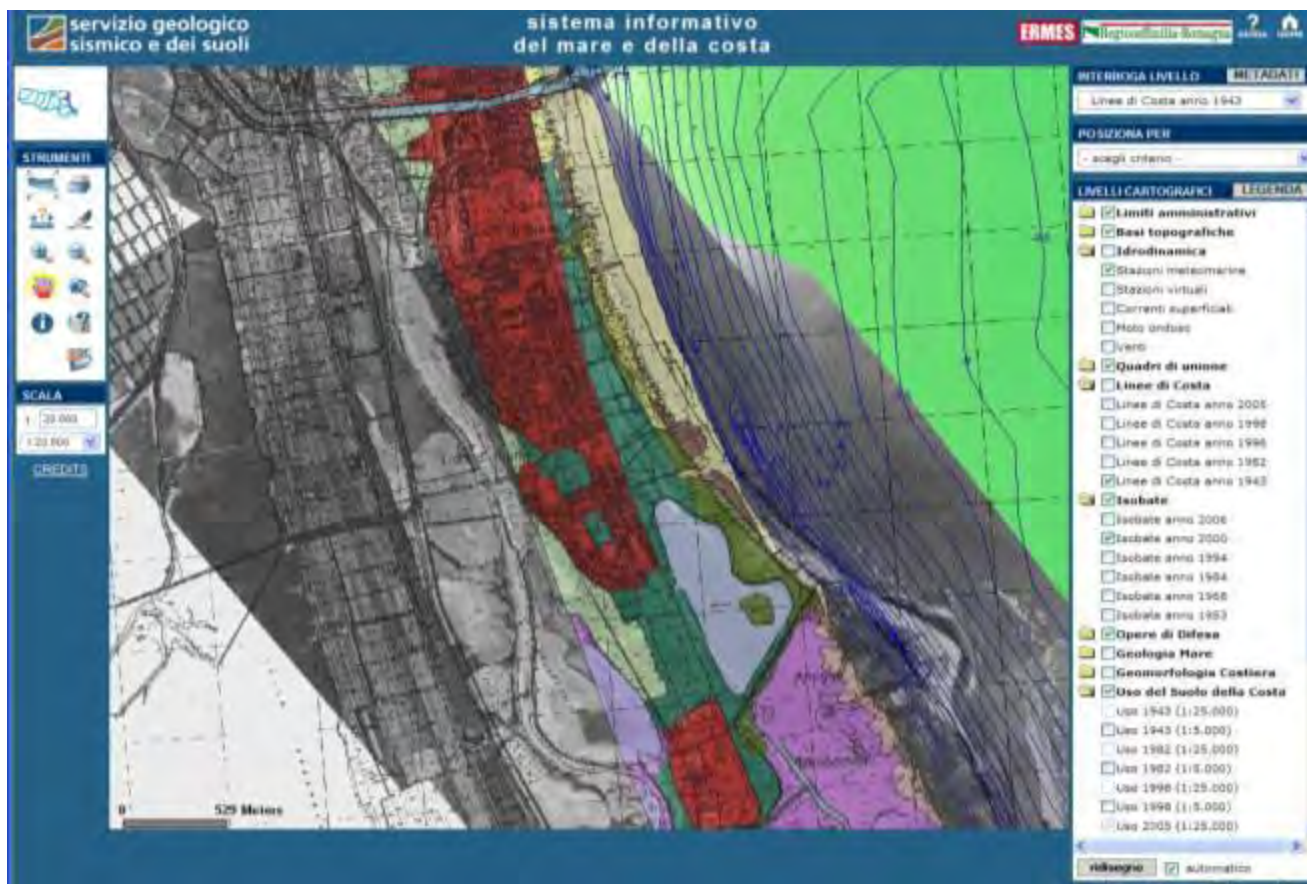
1.SURVEY ON PARTNERS SITUATION

OPEN DATA POLICIES ARE IN DEVELOPMENT BOTH AT REGIONAL AND NATIONAL LEVEL (GREECE, ITALY)

BUT THERE ARE NOT DEDICATED BUDGET (ERDF FUNDS ARE OFTEN THE ONLY OCCASION TO IMPLEMENT SYSTEMS)

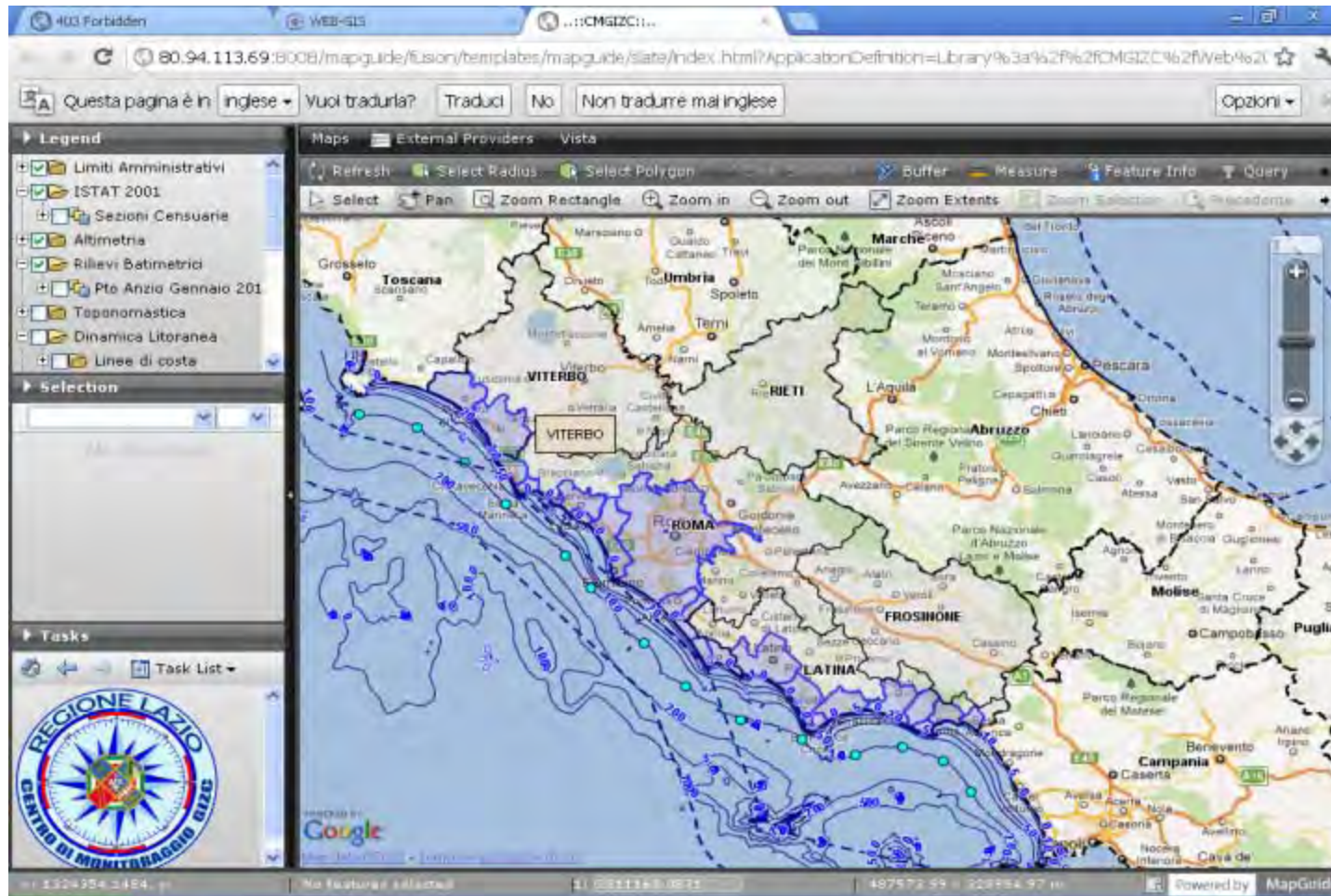
FOR THE NEXT FINANCIAL PERIOD 2014 - 2020 THE PROGRAMMES RELATING TO THE COASTAL AND MARITIME ISSUES SHOULD FINANCE DATA IMPLEMENTATION AND UPDATING

REGIONAL EXAMPLES OF DATA TOOLS



Regione
Emilia Romagna

<http://ambiente.regione.emilia-romagna.it/geologia/cartografia/webgis-banchedati/sistema-informativo-mare-costa>



Regione Lazio

<http://www.cmgizc.info>

NATIONAL EXAMPLES OF DATA TOOLS

Domande frequenti | Δημόσια, Ανοικτά Δεδομένα

www.geodata.gov.gr/maps/

Πείτε μας τη γνώμη σας

geodata.gov.gr beta
ΔΗΜΟΣΙΑ ΔΕΔΟΜΕΝΑ, ΑΝΟΙΚΤΑ ΔΕΔΟΜΕΝΑ

<data
geo="άνοικτά">
</data>

Επιλογή υποβάθρων: Κτηματολόγιο Α.Ε. | Διαφάνεια χάρτη | Αναζήτηση τοποθεσίας | Εντολές

Στοιχεία χάρτη

Αναζήτηση σε επίπεδα

Κατάλογος δεδομένων

Βασικά υπόβαθρα

- Απογραφικά Όρια
 - ☒ Όρια Δήμων (Καποδιστριακοί Δήμοι - ΕΛ.ΣΤΑΤ.)
 - ☐ Όρια Νομών (ΕΛ.ΣΤΑΤ.)
 - ☐ Όρια Νομών (Ο.Κ.Χ.Ε.)
 - ☐ Διαμερίσματα (ΕΛ.ΣΤΑΤ.)
- Διανομές Φύλλων Χάρτου
 - ☐ Διανομή Φύλλων Χάρτου του ΟΚΧΕ κλίμακας 1:5000 σε προβολικό ΕΓΣΑ 87
- Διοικητικά Όρια
 - ☐ Όρια Δήμων (Καλλικράτης)
 - ☐ Όρια Δήμων (Καποδιστριακοί Δήμοι - Ο.Κ.Χ.Ε.)
 - ☐ Όρια Δήμων (Προ Καποδιστριακοί Δήμοι - ΥΠ.Ε.Σ.)
 - ☐ Δασικές Υπηρεσίες
 - ☐ Περιφέρειες

Προβολή χάρτη

WGS84 - EPSG:4326

100 km
50 mi

Εργαλεία

Αναζήτηση

- ☒ Σημειακή αναζήτηση

Απόσταση αναζήτησης 50 μέτρα

- ☒ Αναζήτηση σε όλα τα επίπεδα

Μετακίνηση σε συντεταγμένες

GREECE

2.DATA ASSESSMENT

A form was elaborated in order to know:

- data features
- metadata compliant ISO 19115
- data structure
- WMS WFS services available
- services URL

Ref. **6FP** Humboldt project “*Development of a framework for data harmonisation and service integration*”

Administrative units

Field	Value
Native data format	Oracle spatial DGN - Bentley DWG - Autocad DXF - ASCII Interchange format GEOMEDIA MSACCESS MAPINFO - Structured (.TAB, .DAT, .ID, .MAP) MGE - Intergraph SHAPE - ArcView SID - Raster Compressed MrSID
Spatial Reference System - EPSG - CODE	GAUSS BOAGA - MERCATORE TRASVERSO CONFORME DI GAUSS Ellipsoid - Datum: INTERNATIONAL (HAYFORD) - ROMA40 FUSE WEST EPSG - CODE: 3003
Nomenclature, terminology used	Administrative units, municipalities, provinces, region
Metadata Model (ISO/TC211 - ISO19139) URL	http://www.cartografiarl.regione.liguria.it/RepINSPIRE/tmp/r_liguri.D.56.2011-11-14.html
Scale	1:5000
Extension (spatial, temporal and thematic)	Entire regional territory, year 2003, without thematic
Procedures for data acquisition	Extract of boundaries from the regional technical map 1:5000, integrated by tracing the limits of the municipal cadastral maps at scale 1:5000 and with acquisition of the shoreline from ortophoto IT2000

**Structure of the
database (name of
spatial level, column
names, column types,
column lenght)**

TABLE NAME: COMUNI_5000

Columns name - columns type:

Name	Null	Type
-----	-----	-----
COD_PROV		VARCHAR2(3)
COD_COM		VARCHAR2(3)
CODICE_COMUNE		VARCHAR2(6)
NOME_PROVINCIA		VARCHAR2(50)
NOME_COMUNE		VARCHAR2(40)
COD_COM_MONTANA		VARCHAR2(3)
COM_MONTANA		VARCHAR2(140)
COD_CONS_COMUNI		VARCHAR2(3)
CONS_COMUNI		VARCHAR2(140)
ID_COMUNE_SISMICO		NUMBER(5)
SISMICO		VARCHAR2(2)
DESCR_SISMICO		VARCHAR2(50)
EX_OB2_DOCUP_97_99		VARCHAR2(1)
AMBITO_EDILIZIA		VARCHAR2(1)
Z_SV_DLGS_146_97_M		VARCHAR2(5)
DESCR_ZONE_SV_P_M		VARCHAR2(100)
DESCR_ZONE_SV_P_R		VARCHAR2(100)
A_SV_EX_CEE_268_75		VARCHAR2(1)
DESCR_AREE_SV		VARCHAR2(100)
Z_MON_99152_110271		VARCHAR2(1)
DESCR_ZONE_MON		VARCHAR2(100)
COD_ASL		VARCHAR2(3)
NOME_ASL		VARCHAR2(50)
NOME_DOP		VARCHAR2(50)
SUP_MGE_HA		FLOAT(126)
PERIMETRO_MGE_KM		FLOAT(126)
POPOLAZIONE_FM_1991		FLOAT(126)
POPOLAZIONE_FM_2001		FLOAT(126)
POPOLAZIONE_F_2001		FLOAT(126)
POPOLAZIONE_M_2001		FLOAT(126)
COD_CATASTALE		VARCHAR2(4)
CAP_PRINCIPALE		VARCHAR2(5)
GDO_GEOMETRY		SDO_GEOMETRY()
Z_SV_DLGS_146_97_R		VARCHAR2(5)
COD_DOP		NUMBER(10)
ID		NOT NULL NUMBER(10)

Display mode (legend, classification, style)	Legend: comuni 1:5000 Classification: - Identificativo - Perimetro [Km] - Superficie [Ha] - Codice ISTAT Provincia - Provincia - Codice ISTAT Comune - Comune - Codice Belfiore - Codice Avviamento Postale - Azienda Sanitaria Locale - Ambito Edilizia Abitativa e Scolastica - Comunità Montana - Consorzio Comuni - Denominazione Origine Protetta - Area Obiettivo 2 Documento Unico Prog. 1997/99 - Zone Montane L.991 1952 - L.1102 1971 - Zone Svantaggiate DLGS. n. 146/97 proposta regionale - Zone Svantaggiate DLGS. n. 146/97 proposta ministeriale - Aree Svantaggiate L. 268/75 - Livello Sismicità Ord. 3274/03 Style: - boundary color RGB (255,215,0) - width 1
OGC web services (WMS) URL	http://www.cartografiarl.regione.liguria.it/mapfiles/repertoriocartografico/CONFINI/56.asp?service=WMS&request=getCapabilities

3.TEST FOR VERIFY THE INTEROPERABILITY OF SERVICES

At each partners we asked, as a part of the form, to give us the URL of WMS for each of 3 levels:

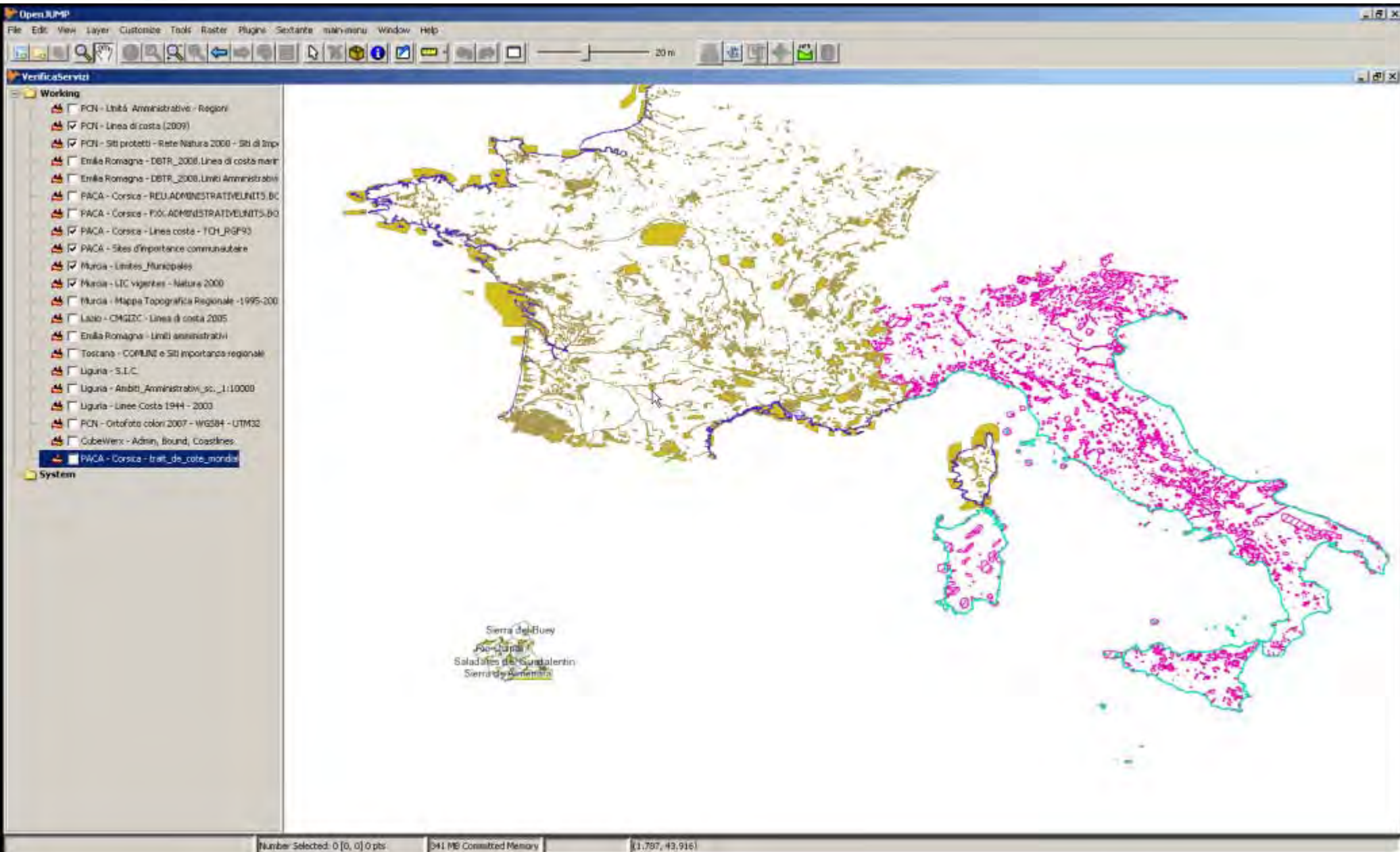
- **Administrative units**
- **Shoreline**
- **SIC/Natura 2000**

3.TEST FOR VERIFY THE INTEROPERABILITY OF SERVICES

We did a test of services with two desktop GIS software, OpenJump (open source) and Gaia (free version - carbon tools project).

At first we created the URL connection for the services of the project's partners. After we tried to test the simple requests provided for WMS's services (getCapabilities, getMap, getFeatureInfo), for each cartography level indicated.

The coordinate of the map for the test were configured as WGS84 Lat/Lon (epsg:4326) obviously for obtaining a global consultation of cartography data





OpenJUMP
File Edit View Layer Customize Tools Raster Plugins Sextante main-menu Window Help

VerificaServizi

Working

- ☒ Regione Lazio - CMGIZC - Limiti Comunali Costieri
- ☐ Valencia - Unità amministrative
- ☐ Valencia - SIC nature 2000
- ☐ Valencia - linea di costa
- ☐ PCN - Linea di costa (2009)
- ☐ PCN - Siti protetti - Rete Natura 2000 - Siti di Imp
- ☐ PCN - Unità Amministrative - Regioni
- ☒ Emilia Romagna - DBTR_2008.Linea di costa marit
- ☒ Emilia Romagna - DBTR_2008.Limiti Amministrativi
- ☐ PACA - Corsica - REU,ADMINISTRATIVEUNITS,BC
- ☐ PACA - Corsica - FXX,ADMINISTRATIVEUNITS,BO
- ☐ PACA - Corsica - Linea costa - TCH_RGF93
- ☐ PACA - Sites d'importance communautaire
- ☐ Murcia - Limites Municipales
- ☐ Murcia - LIC vigentes - Natura 2000
- ☐ PACA - Corsica - trait_de_cote_mondial
- ☐ Murcia - Mappa Topografica Regionale - 1995-200
- ☒ Lazio - CMGIZC - Linea di costa 2005
- ☐ Emilia Romagna - Limiti amministrativi
- ☐ Toscana - COMUNI
- ☐ Toscana - SITI DI IMPORTANZA REGIONALE
- ☐ Liguria - S.I.C.
- ☐ Liguria - Ambiti Amministrativi_sc_1:10000
- ☐ Liguria - Linee Costa 1944 - 2003
- ☐ PCN - Ortofoto colori 2007 - WGS84 - UTM32
- ☐ CubeWorx - Admin, Bound, Coastlines

System

ITALY - LAZIO REGION

Administrative units:
<http://80.94.113.69:8008/mapguide/mapagent/mapagent.fcgi>
 service=WMS
 request=getCapabilities (ok)
 request=getMap (ok)
 request=getFeatureInfo (ok)

Umbria

Molise

Campania

Number Selected: 0 [0, 0] 0 pts | 376 MB Committed Memory | (13.4157, 43.217)

OpenJUMP

File Edit View Layer Customize Tools Raster Plugins Sextante main-menu Window Help

VerificaServizi

Working

- ☒ Regione Lazio - CMGIZC - S.I.C.
- ☐ Regione Lazio - CMGIZC - Linee Comunali Costiere
- ☐ Valencia - Unità amministrative
- ☐ Valencia - SIC natura 2000
- ☐ Valencia - linea di costa
- ☐ PCN - Linea di costa (2009)
- ☐ PCN - Siti protetti - Rete Natura 2000 - Siti di Imp.
- ☒ **PCN - Unità Amministrative - Regione**
- ☒ Emilia Romagna - DBTR_2008.Linea di costa maritt.
- ☒ Emilia Romagna - DBTR_2008.Linea Amministrativa
- ☐ PACA - Corsica - REG. ADMINISTRATIVEUNITS.BC
- ☐ PACA - Corsica - REG. ADMINISTRATIVEUNITS.BO
- ☐ PACA - Corsica - Linea costa - TCH_RGP93
- ☐ PACA - Sites d'importance communautaire
- ☐ Murcia - Limites Municipales
- ☐ Murcia - LIC vigentes - Natura 2000
- ☐ PACA - Corsica - trait de cote mondial
- ☐ Murcia - Mappa Topografica Regionale - 1995-200
- ☐ Lazio - CMGIZC - Linea di costa 2006
- ☐ Emilia Romagna - Unità amministrative
- ☐ Toscana - COMUNI
- ☐ Toscana - SITI DI IMPORTANZA REGIONALE
- ☐ Liguria - S.I.C.
- ☐ Liguria - Ambiti Amministrativi_sc_1:10000
- ☐ Liguria - Linea Costa 1944 - 2003
- ☐ PCN - Ortofoto colori 2007 - WGS84 - UTM32
- ☐ CubeWerkz - Admin, Bound, Coastlines

System

ITALY - LAZIO REGION

Sic/Natura 2000:

<http://80.94.113.69:8008/mapguide/mapagent/mapagent.fcgi>

service=WMS

request=getCapabilities (ok)

request=getMap (ok)

request=getFeatureInfo (ok)

Number Selected: 0/0, 0/0 pts | 334 MB Committed Memory | (12.167, 43.1657)

