

OPENCOESIONE

www.opencoessione.gov.it

www.dps.tesoro.it/opencoessione

Rappresentare I dati di OpenCoessione su una mappa

Maurizio Napolitano
Fondazione Bruno Kessler Trento

*OpenCoessione Data Journalism Day
Roma, 8 novembre 2012*

Perchè un'altra mappa?

Può accadere che si abbia l'esigenza di

10/09/2012 - OpenCoesione presents new data! - Read the news!

OpenCoesione is the first web portal on the implementation of investments programmed over the 2007-2013 cycle by Italy's regional and central administrations through resources aimed at cohesion. Data are published so as to enable citizens to evaluate whether the projects do fulfil their needs and whether resources are employed effectively. [Click here](#) to learn more.

2007-2013 TOTAL RESOURCES
99,286 BILLION EURO

MONITORED INVESTMENTS
14,7 BILLION EURO

MONITORED PROJECTS
473.048

46,7 BILLION EURO

Investment nature
What are projects for?

Issues
Which are the sectors involved?

Issue	Amount (euro)
Purchase of goods and services	12.537.942.813,0
Infrastructure	25.309.372.160,8
State aid to enterprises	5.332.584.514,72
Support for people	1.723.147.040,44
Equity infusions	120.242.044,71
Non available	1.238.621.679,67
Digital Agenda	1.744.561,46
Environment	5.525.868,88
Urban and rural areas	1.092.797,41
Competitiveness of enterprises	1.835.519,44
Culture and tourism	1.783.796,63
Energy	1.206.324,72
Social inclusion	1.956.598,42
Childcare and elderly people care	223.817,74
Education	5.307.562,28
Strengthening public administration	1.846.283,62
Research & Innovation	6.215.496,18
Transport	14.333.612,41

GRANDI PROGETTI. COMPLETAMENTO LINEA 1 DELLA METROPOLITANA DI NAPOLI 1.376.000.000 euro

RADDOPPIO PALERMO LIE/BRANCAICO-PALERMO NOTTO-PUNTA RAIO E SISTEMAZIONE TECNOLOGICA DEL NODO E DELLA TRATTA PALERMO-FILMETOTTO 1.077.232.563 euro

NORD-SUD GAMAETRA-GEA - LOTTO C1 DAL KM 51,2 DELLA SS 117 A KM 4,0 DEL TRACCIATO IN VARIANTE, INCLUSO COLLEGAMENTO LEONORTE 398.958.000 euro

HOLISE - SICMA 2002 - PERCORSO RICOSTRUZIONE 146.150.000 euro

RADDOPPIO PALERMO-MESSINA - TRATTA FILMETOTTO-OGGIASTRILLO 333.000.000 euro

OpenCoesione

How to...

Open data

OPENCoesione website allows for access to summary data on single projects and individual subjects involved, through an engine that enables both direct search and search filtered by territory, topic and nature of the given projects, and also by combining such variables.

Download data
No open data

Ministero del Territorio
DPS
Comunità Demozionistica per la Programmazione Territoriale

Cambiare I colori
Aggiungere etichette
Usare ulteriori indicatori
Insolare delle geometrie
Qualità per la stampa
Avere un vettoriale
Creare un cartogramma

....

Cosa serve?

Ingredienti

- Dati
- Geodati
- Software per elaborare i dati
- Software GIS

GIS = Geographical Information Systems

Cosa useremo?

Open data & Open Source

- Dati
- Geodati
- Software per elaborare i dati
- Software GIS

GIS = Geographical Information Systems

OPENCOESIONE





→ Sezione cartografia

Ad esempio il file

reg2011_g.zip

```
unzip reg2011_g.zip
```

? ? ?
? ?

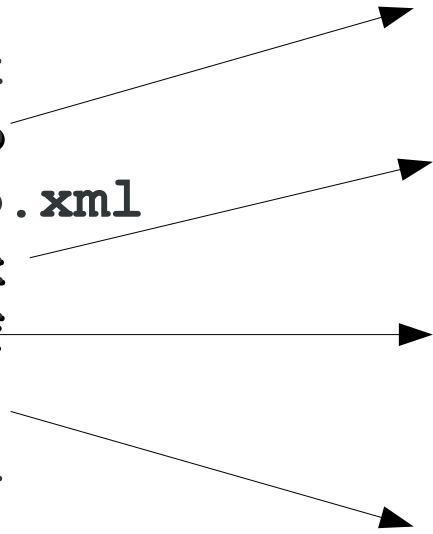
```
reg2011_g.sbx  
reg2011_g.shp  
reg2011_g.shp.xml  
reg2011_g.shx  
reg2011_g.dbf  
reg2011_g.prj  
reg2011_g.sbn
```

? ? ?
? ?

ESRI Shape File

Tanti file per una sola informazione

- reg2011_g.sbx
- reg2011_g.shp**
- reg2011_g.shp.xml
- reg2011_g.shx**
- reg2011_g.dbf**
- reg2011_g.prj**
- reg2011_g.sbn



GEOMETRIE

INDICE
attributi ↔ geometrie

ATTRIBUTI

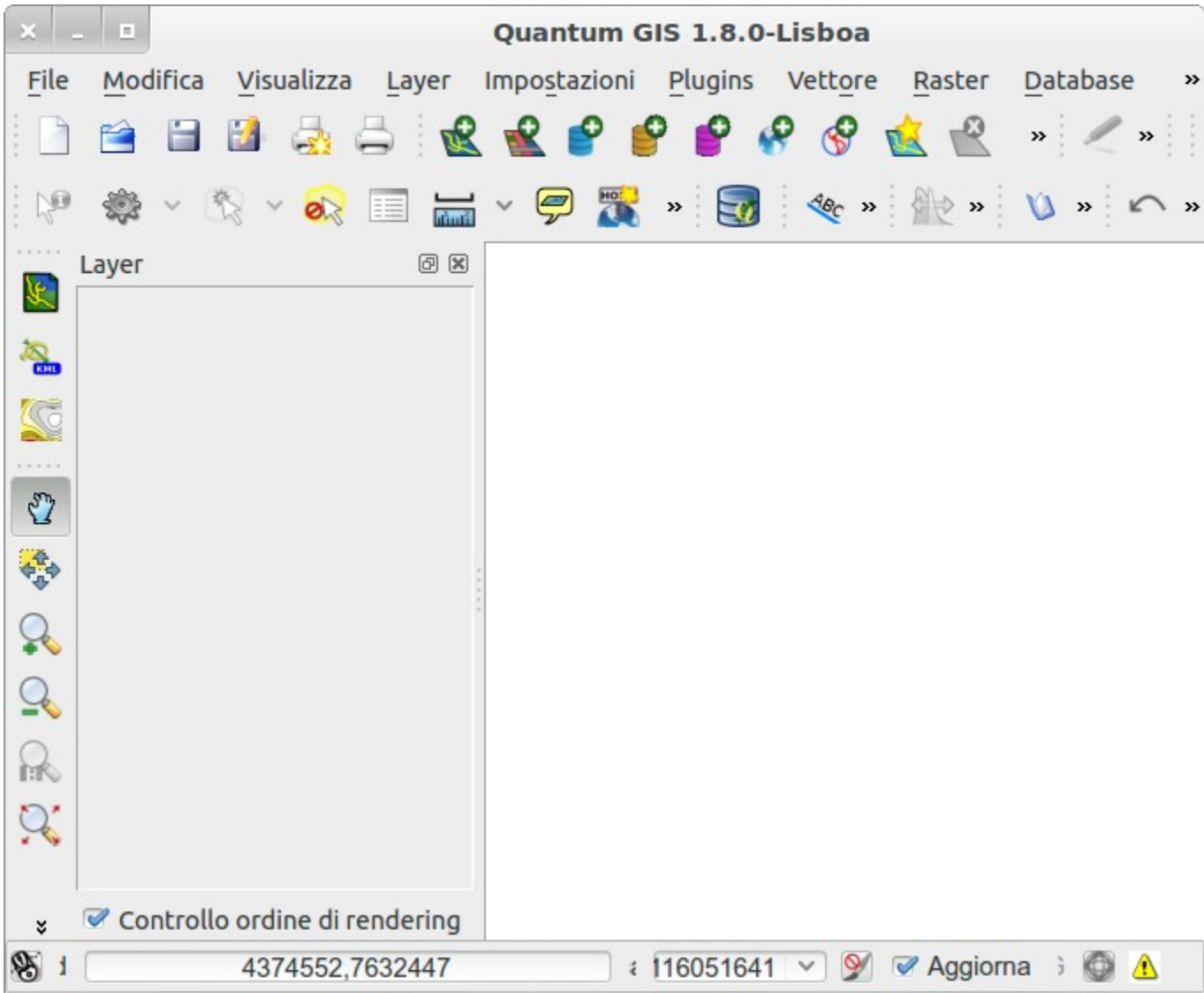
PROIEZIONE



Ok ... ma ora?

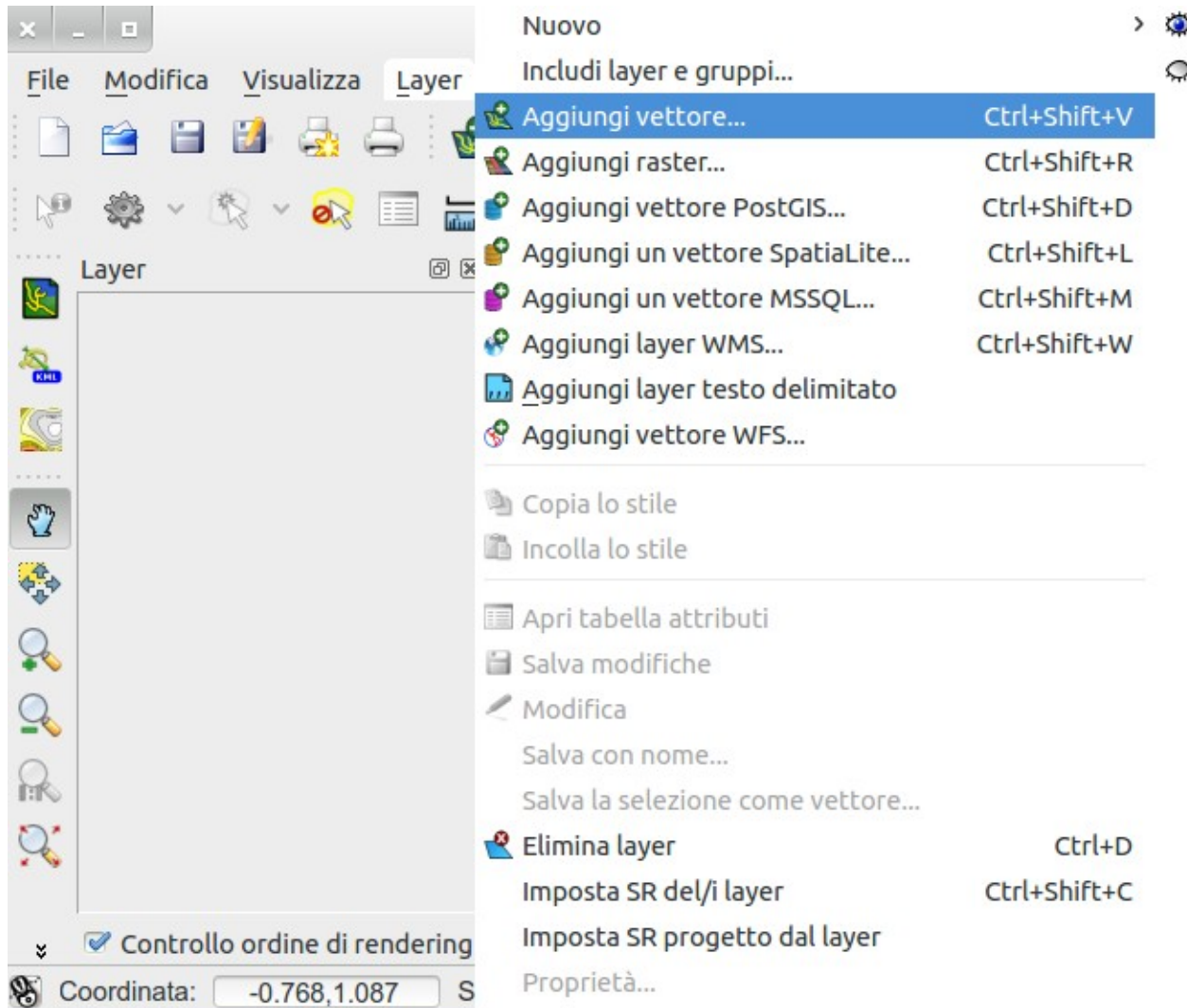
Vedere un ESRI Shape File

Quantum GIS help me!



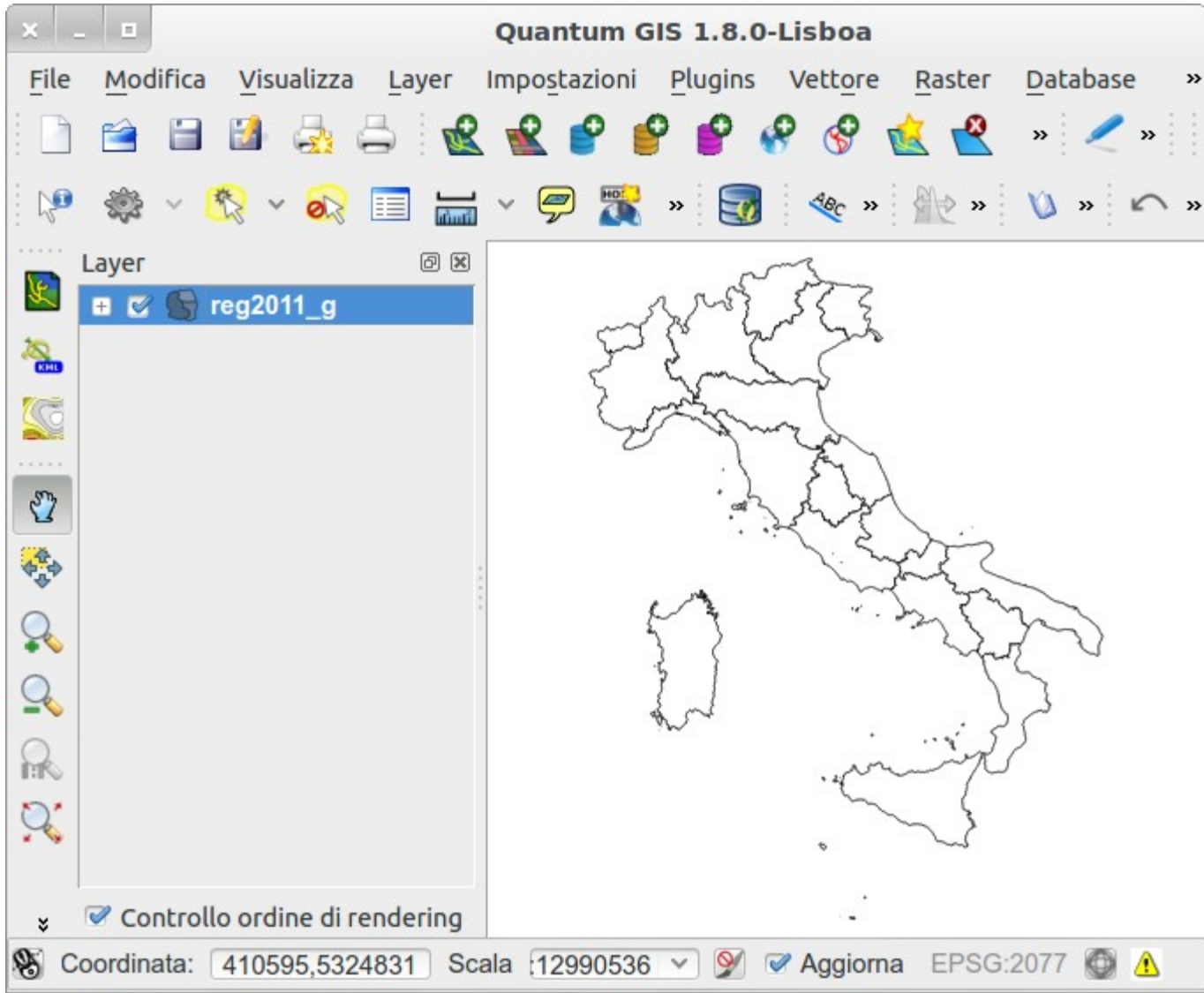
Vedere un ESRI Shape File

Quantum GIS help me!



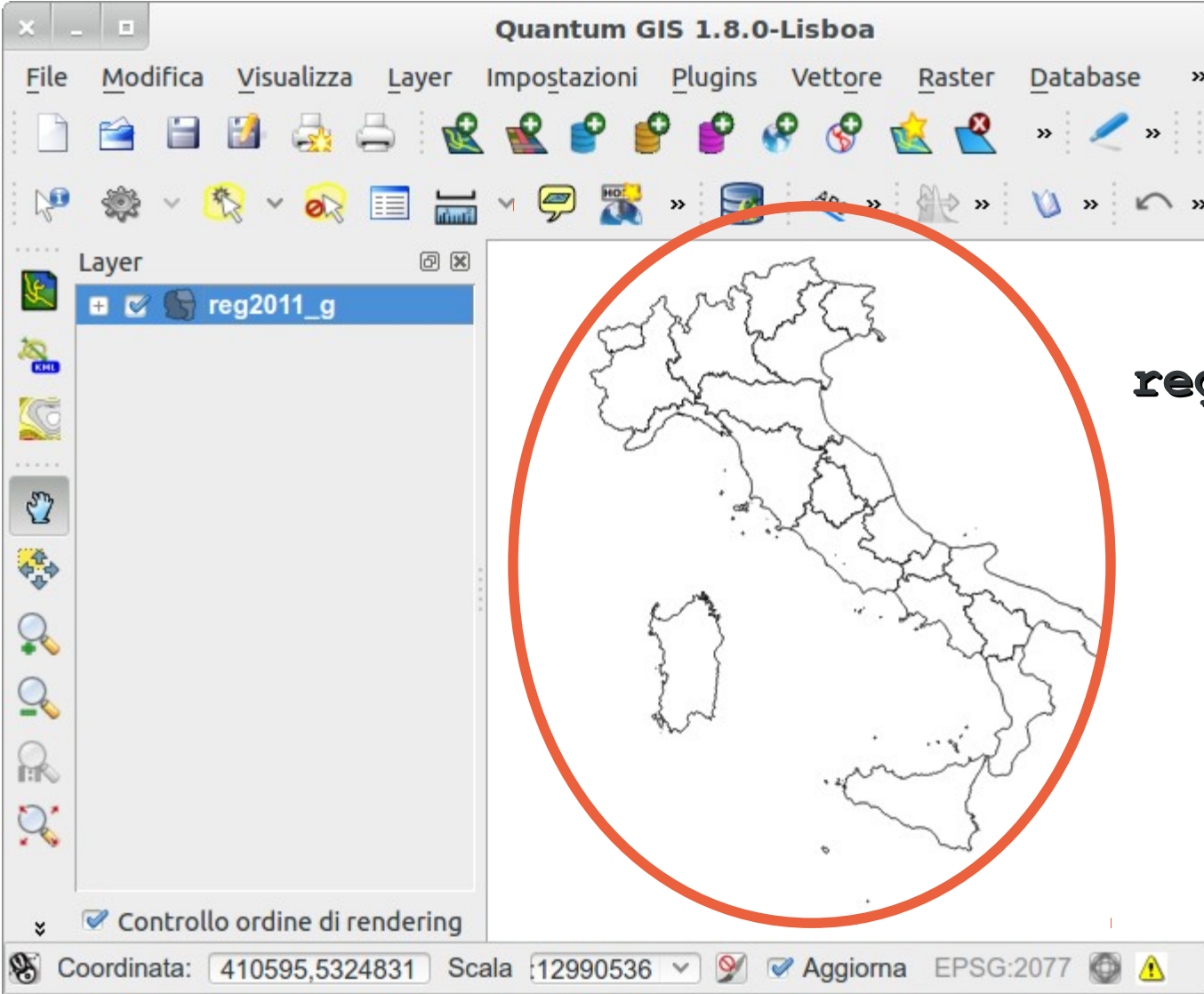
Vedere un ESRI Shape File

Quantum GIS help me!



Vedere un ESRI Shape File

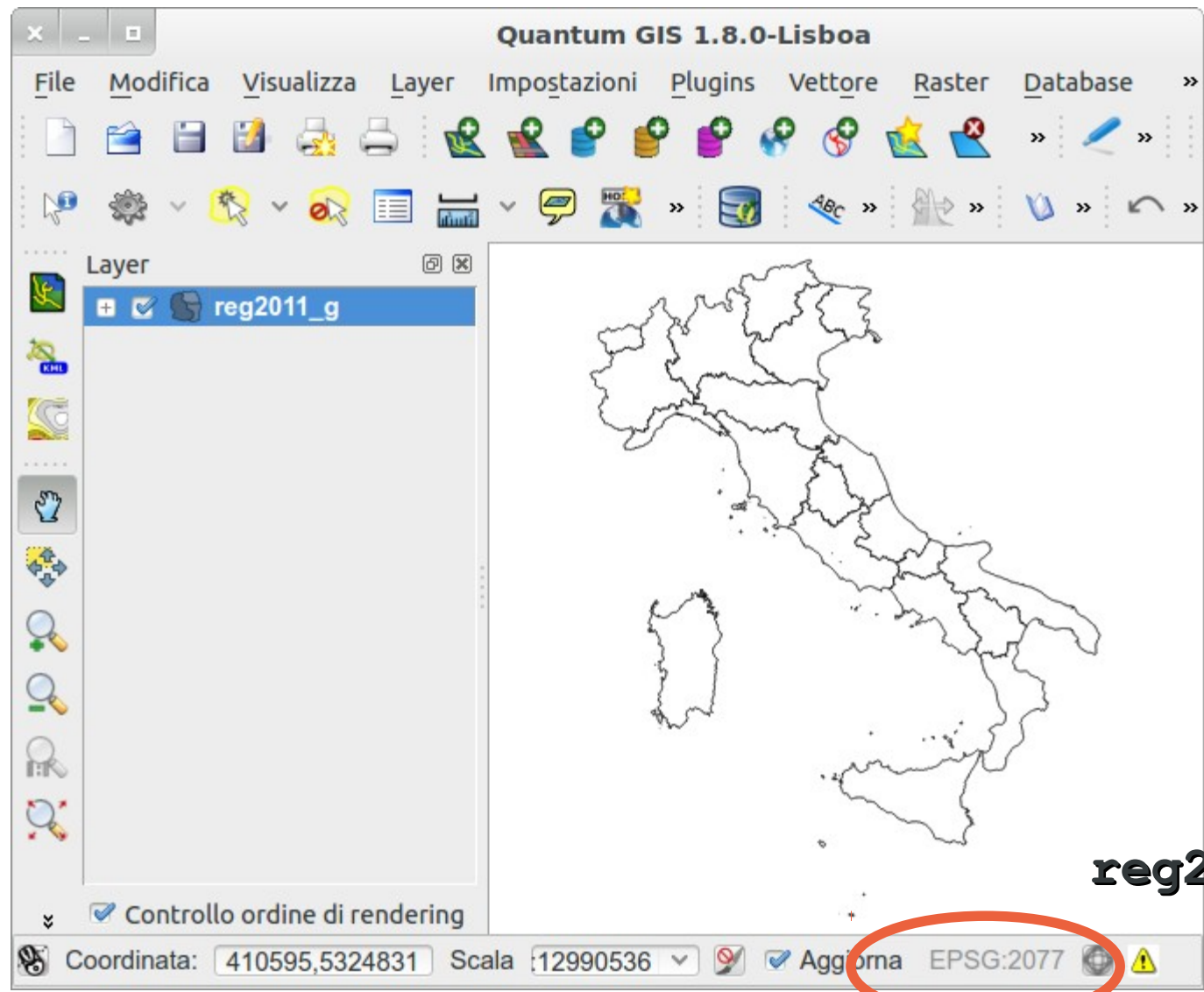
Quantum GIS help me!



reg2011_g.shp

Vedere un ESRI Shape File

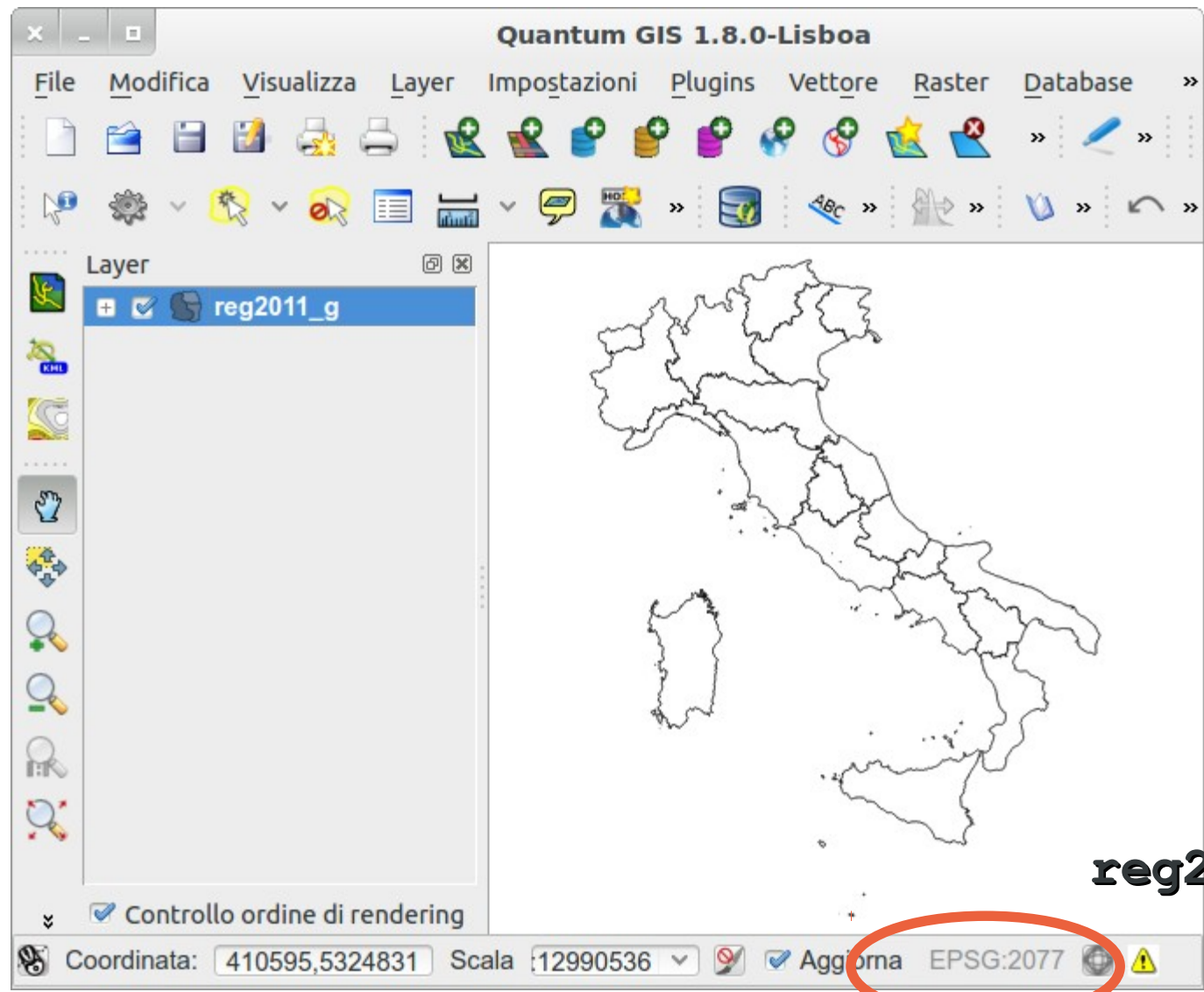
Quantum GIS help me!



reg2011_g.prj

Vedere un ESRI Shape File

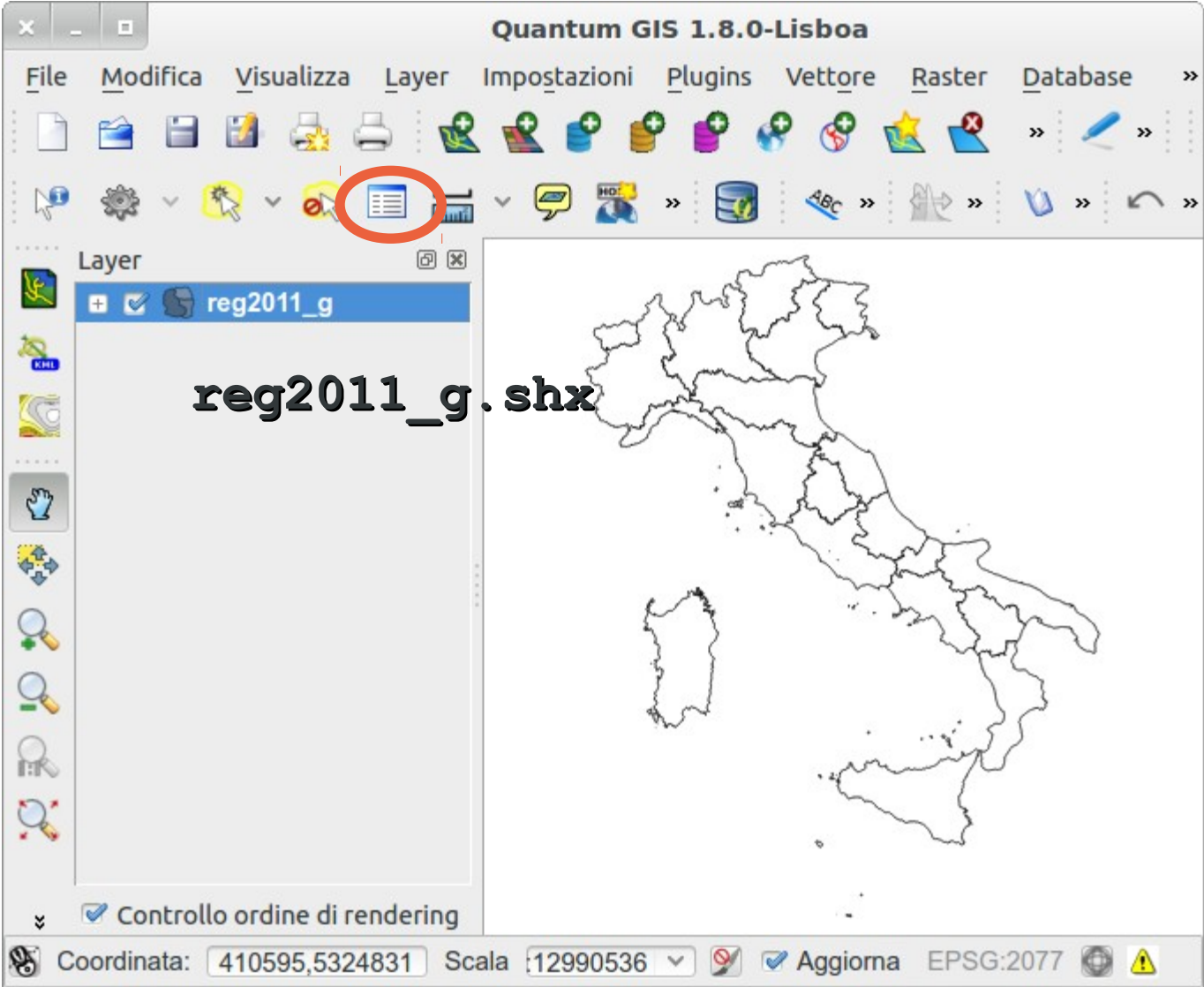
Quantum GIS help me!



reg2011_g.prj

Vedere un ESRI Shape File

Quantum GIS help me!



Vedere un ESRI Shape File

Quantum GIS help me!

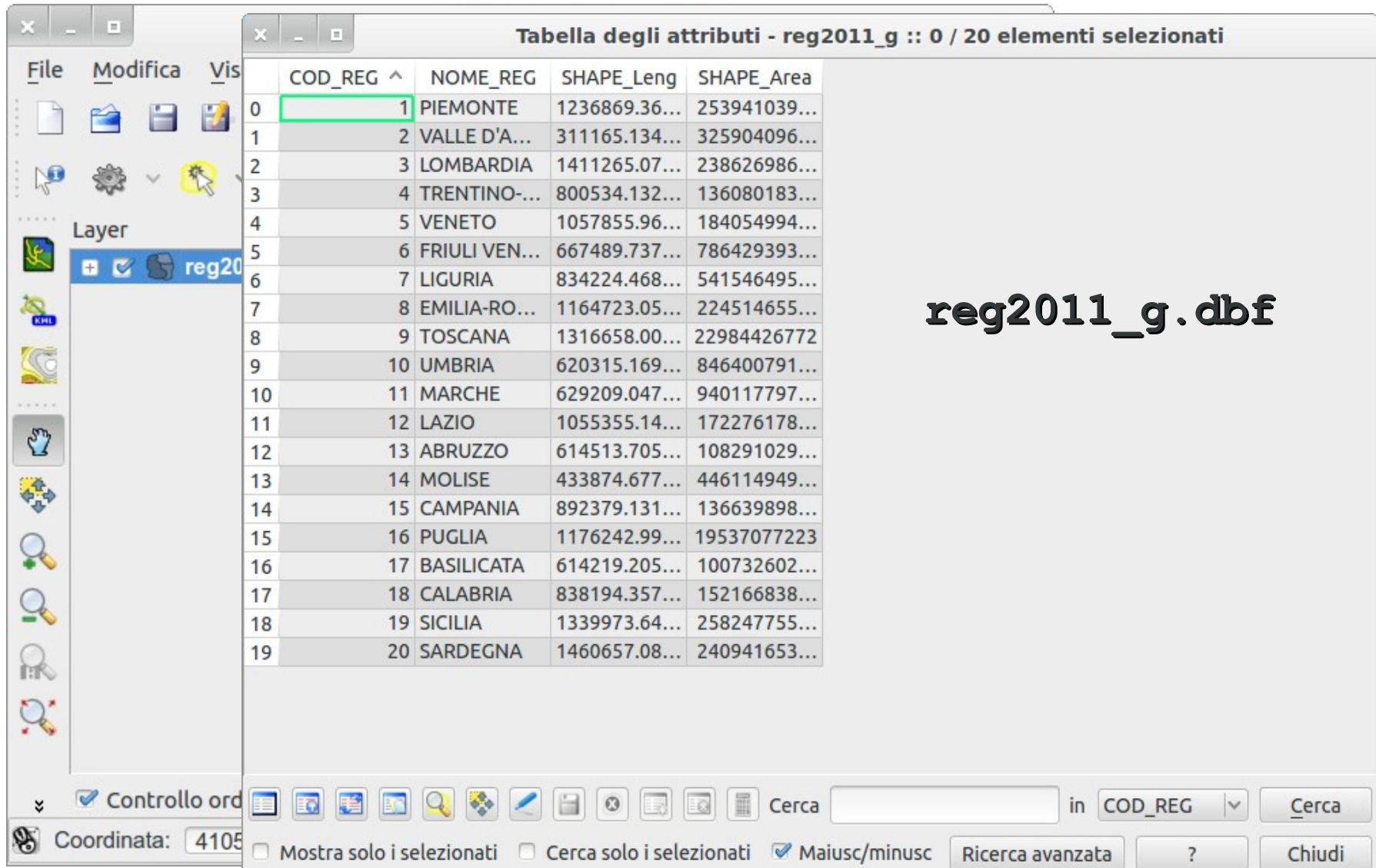


Tabella degli attributi - reg2011_g :: 0 / 20 elementi selezionati

	COD_REG ^	NOME_REG	SHAPE_Leng	SHAPE_Area
0	1	PIEMONTE	1236869.36...	253941039...
1	2	VALLE D'A...	311165.134...	325904096...
2	3	LOMBARDIA	1411265.07...	238626986...
3	4	TRENTINO-...	800534.132...	136080183...
4	5	VENETO	1057855.96...	184054994...
5	6	FRIULI VEN...	667489.737...	786429393...
6	7	LIGURIA	834224.468...	541546495...
7	8	EMILIA-RO...	1164723.05...	224514655...
8	9	TOSCANA	1316658.00...	22984426772
9	10	UMBRIA	620315.169...	846400791...
10	11	MARCHE	629209.047...	940117797...
11	12	LAZIO	1055355.14...	172276178...
12	13	ABRUZZO	614513.705...	108291029...
13	14	MOLISE	433874.677...	446114949...
14	15	CAMPANIA	892379.131...	136639898...
15	16	PUGLIA	1176242.99...	19537077223
16	17	BASILICATA	614219.205...	100732602...
17	18	CALABRIA	838194.357...	152166838...
18	19	SICILIA	1339973.64...	258247755...
19	20	SARDEGNA	1460657.08...	240941653...

reg2011_g.dbf

Controlla ordine Mostra solo i selezionati Cerca solo i selezionati Maiusc/minusc Ricerca avanzata ? Chiudi

Unire I dati

Avere una chiave condivisa

Tabella degli attributi - reg2011_g :: 0 / 20 elementi selezionati

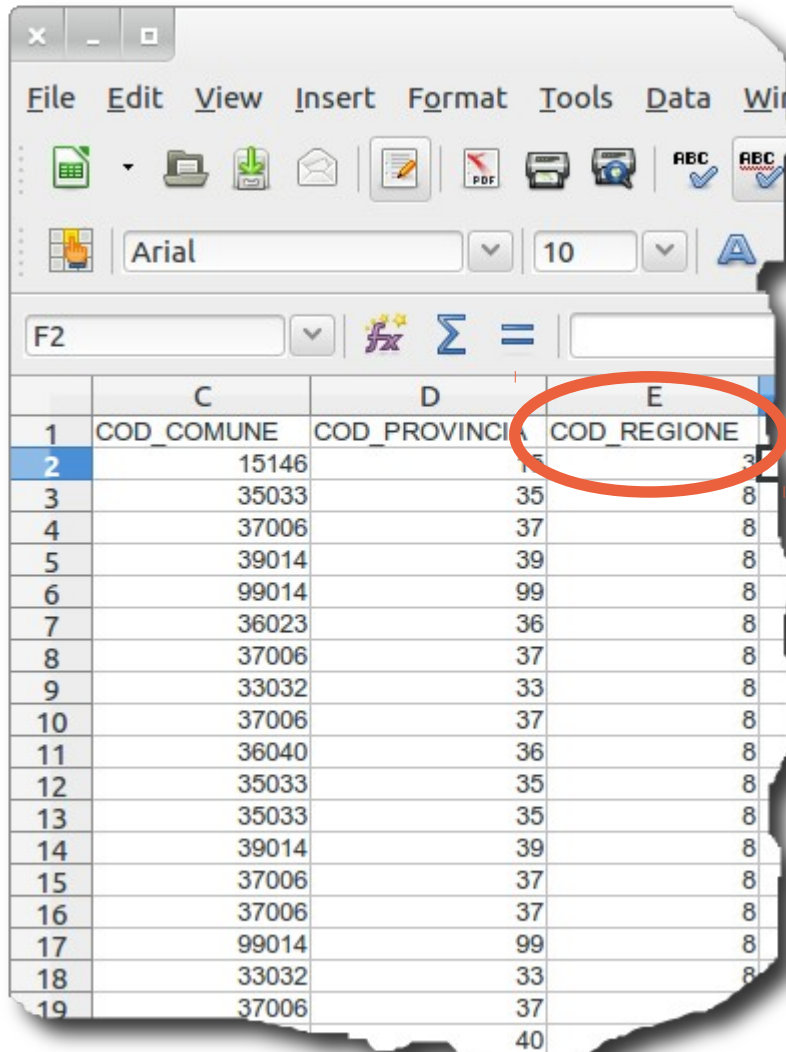
	COD_REG	NOME_REG	SHAPE_Leng	SHAPE_Area
0	1	PIEMONTE	1236869.36...	253941039...
1	2	VALLE D'A...	311165.134...	325904096...
2	3	LOMBARDIA	1411265.07...	238626986...
3	4	TRENTINO-...	800534.132...	136080183...
4	5	VENETO	1057855.96...	184054994...
5	6	FRIULI VEN...	667489.737...	786429393...
6	7	LIGURIA	834224.468...	541546495...
7	8	EMILIA-RO...	1164723.05...	224514655...
8	9	TOSCANA	1316658.00...	22984426772
9	10	UMBRIA	620315.169...	846400791...
10	11	MARCHE	629209.047...	940117797...
11	12	LAZIO	1055355.14...	172276178...
12	13	ABRUZZO	614513.705...	108291029...
13	14	MOLISE	433874.677...	446114949...
14	15	CAMPANIA	892379.131...	136639898...
15	16	PUGLIA	1176242.99...	19537077223
16	17	BASILICATA	614219.205...	100732602...
17	18	CALABRIA	838194.357...	152166838...
18	19	SICILIA	1339973.64...	258247755...
19	20	SARDEGNA	1460657.08...	240941653...

Cerca in COD_REG

Mostra solo i selezionati Cerca solo i selezionati Maiusc/minusc

Unire I dati

... e nel csv di opencoesione ...



The screenshot shows a spreadsheet application window with a menu bar (File, Edit, View, Insert, Format, Tools, Data, Win) and a toolbar. The spreadsheet contains a table with the following data:

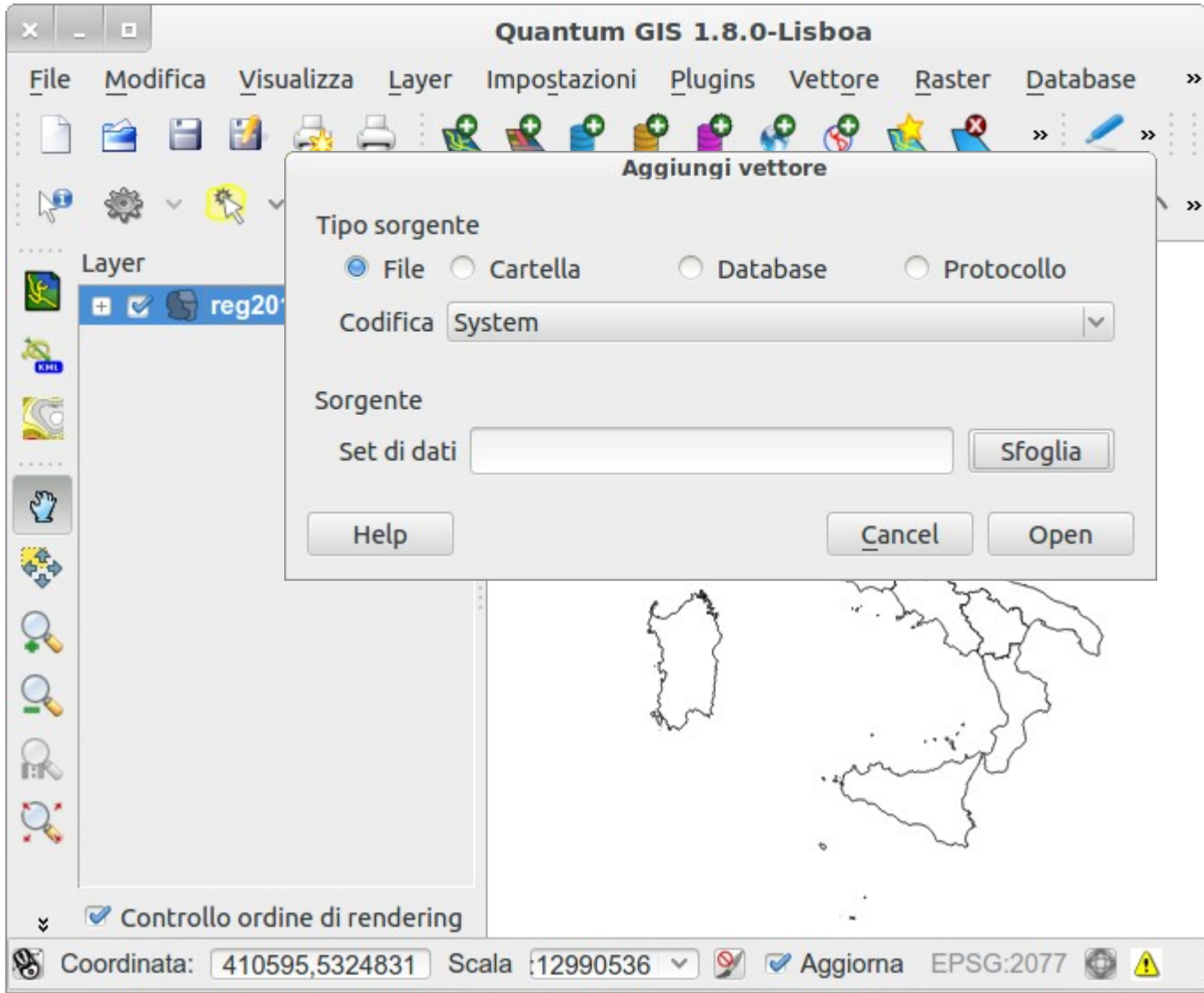
	C	D	E
1	COD_COMUNE	COD_PROVINCIA	COD_REGIONE
2	15146	35	8
3	35033	35	8
4	37006	37	8
5	39014	39	8
6	99014	99	8
7	36023	36	8
8	37006	37	8
9	33032	33	8
10	37006	37	8
11	36040	36	8
12	35033	35	8
13	35033	35	8
14	39014	39	8
15	37006	37	8
16	37006	37	8
17	99014	99	8
18	33032	33	8
19	37006	37	8
		40	

YES!

CODICE REGIONE ISTAT

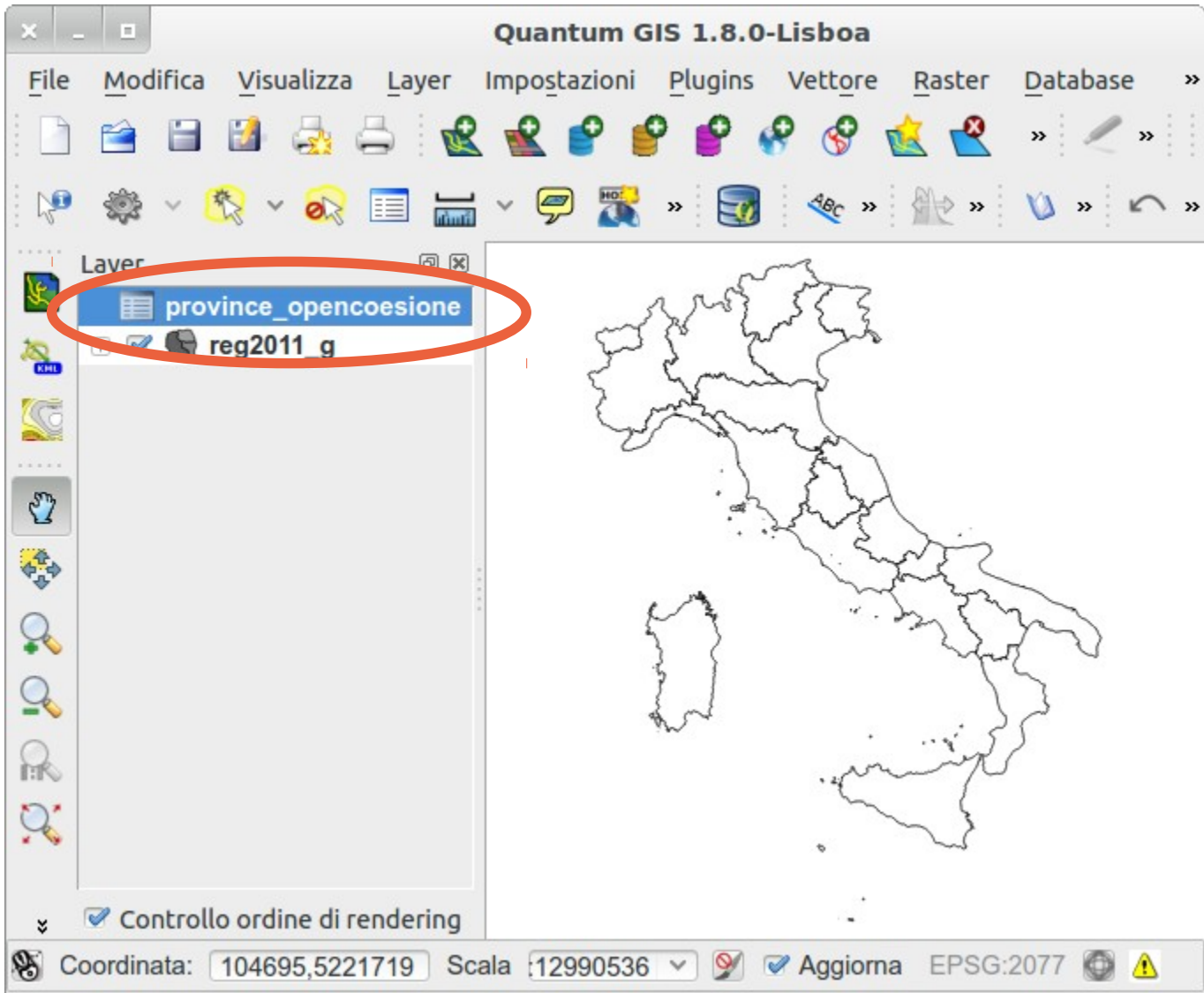
Unire in QGIS

CSV di OpenCoesione + Attributi Vettoriale Regioni ISTAT



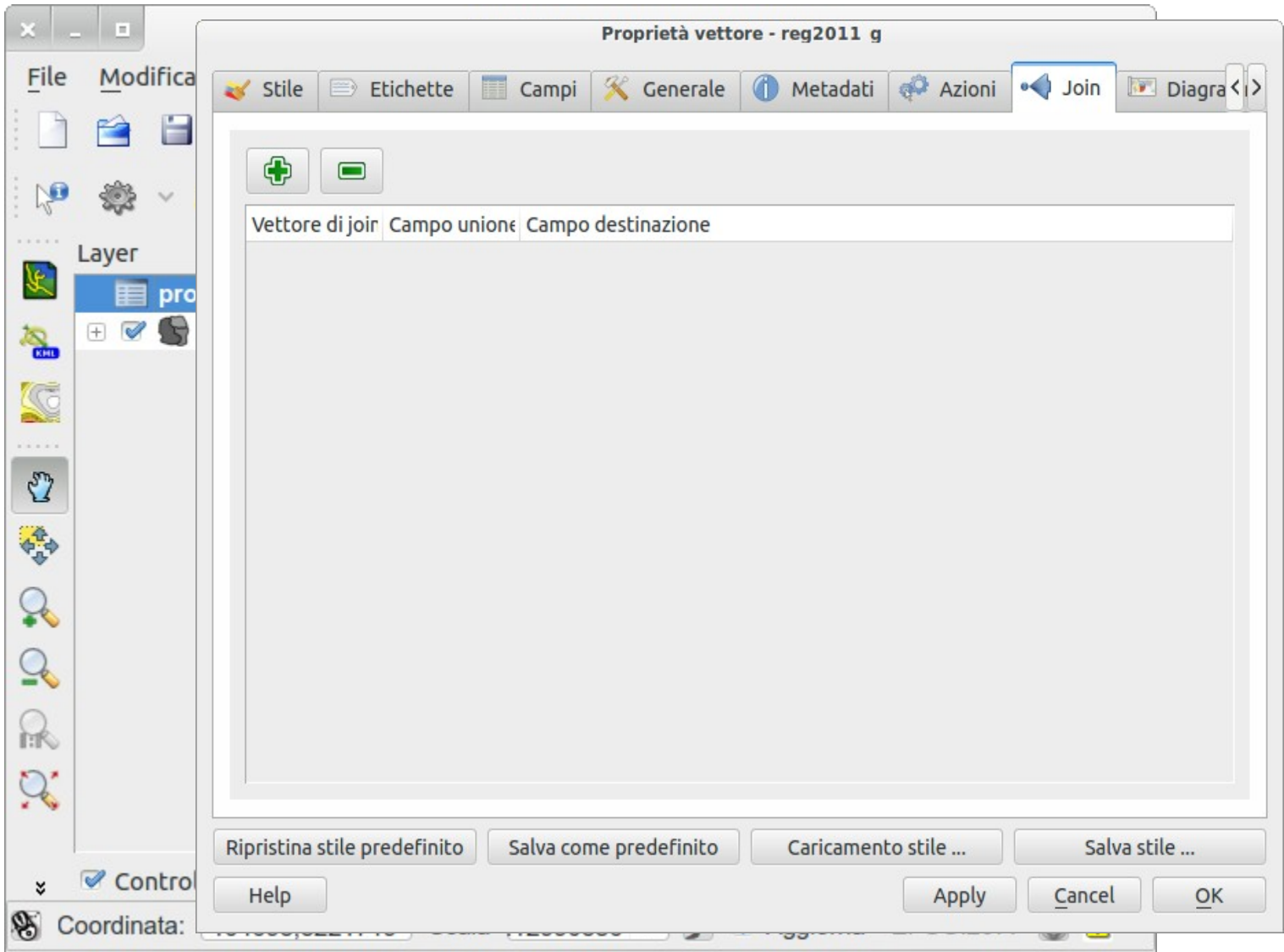
Unire in QGIS

CSV di OpenCoesione + Attributi Vettoriale Regioni ISTAT



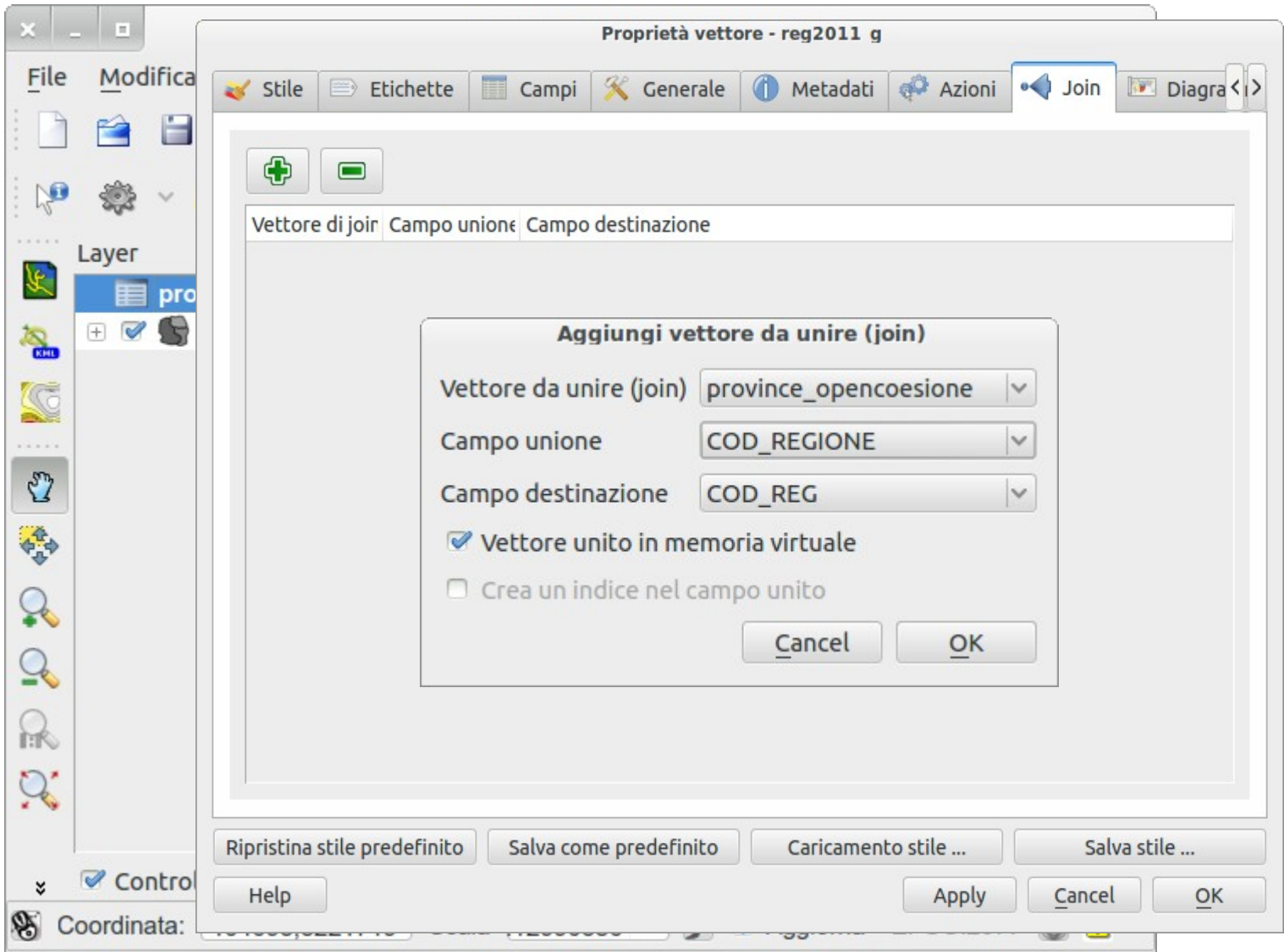
Unire in QGIS

CSV di OpenCoesione + Attributi Vettoriale Regioni ISTAT



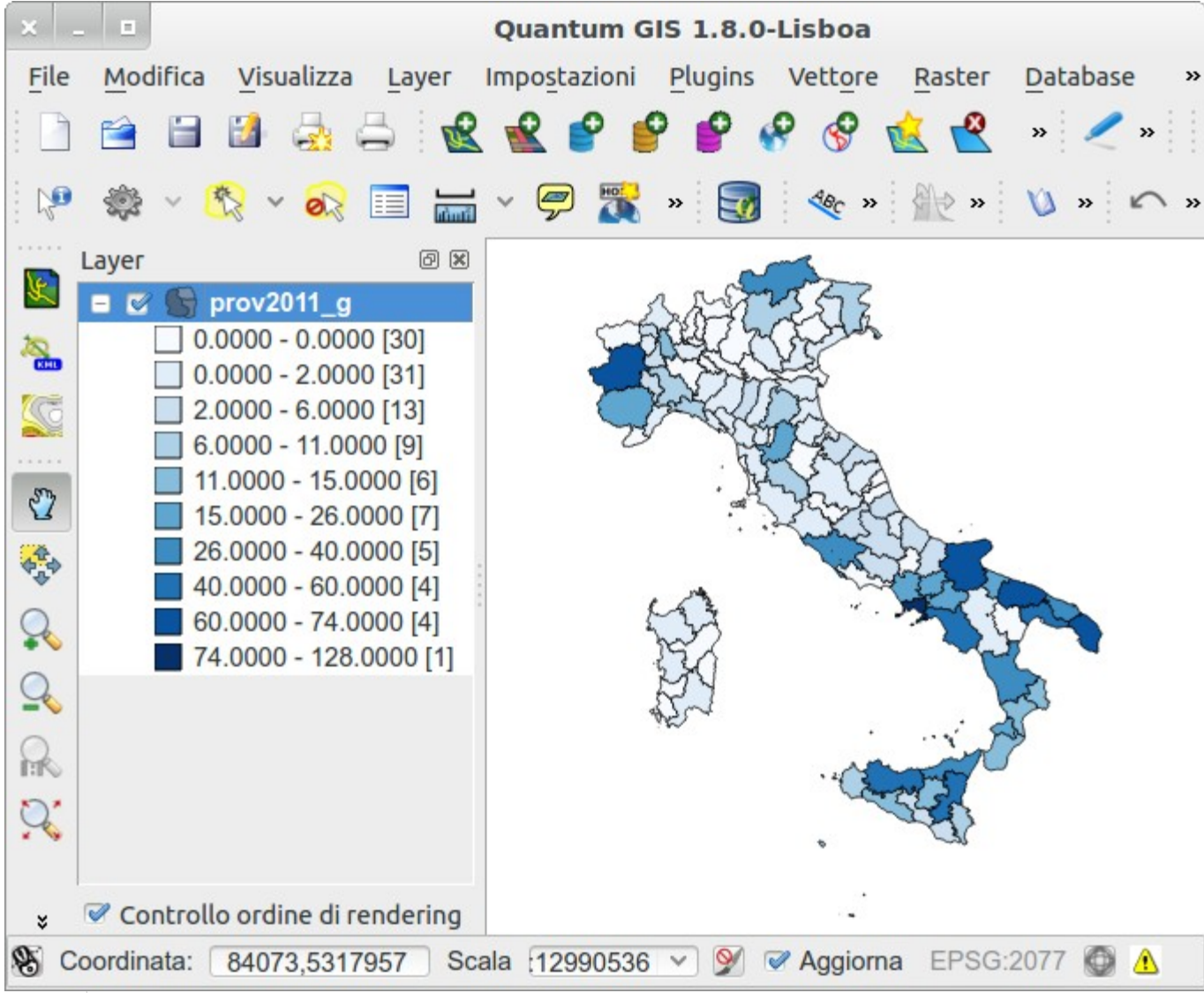
Unire in QGIS

CSV di OpenCoesione + Attributi Vettoriale Regioni ISTAT



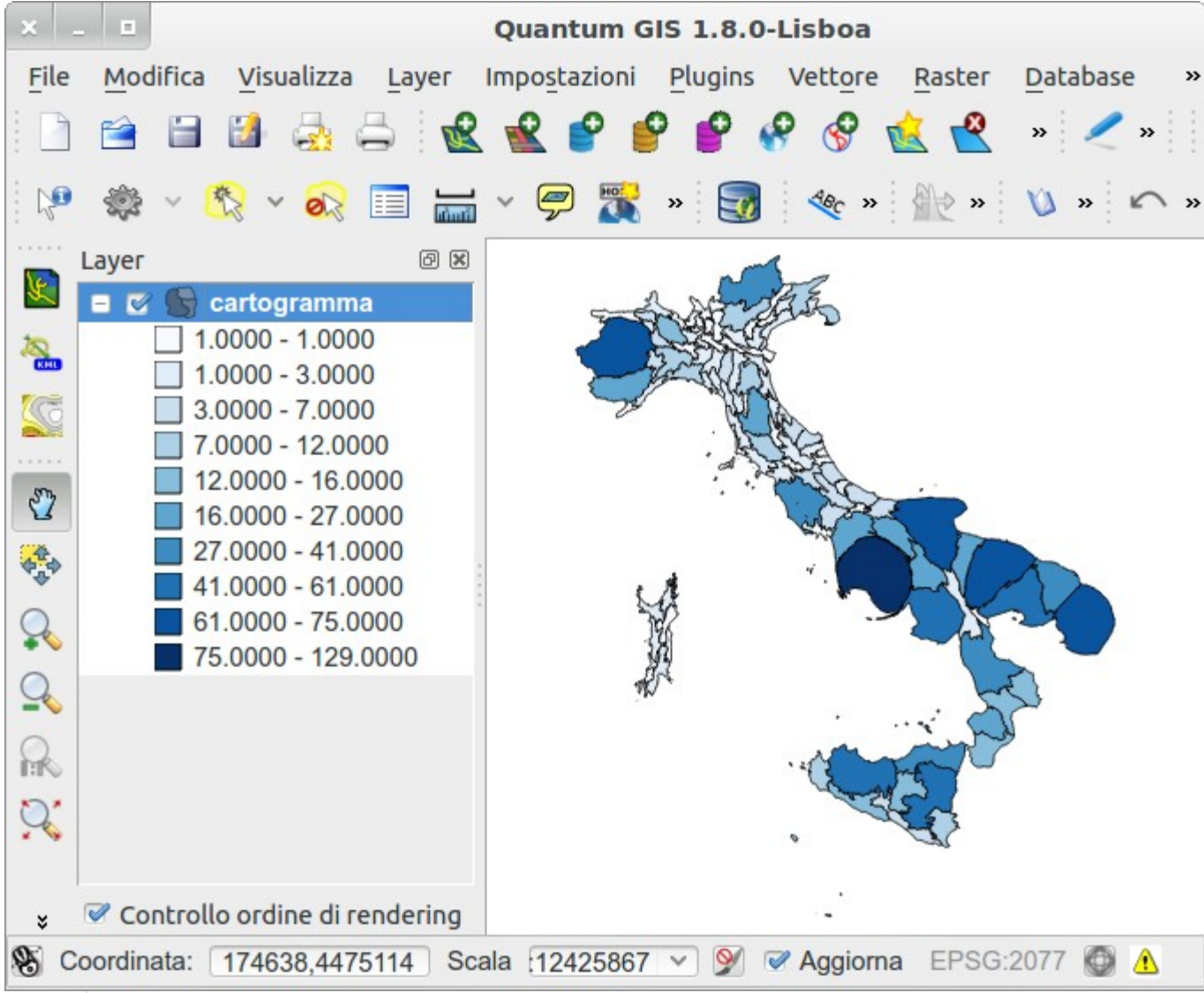
Nuove rappresentazioni

Nuovi stili (es. Numero di progetti per provincia)



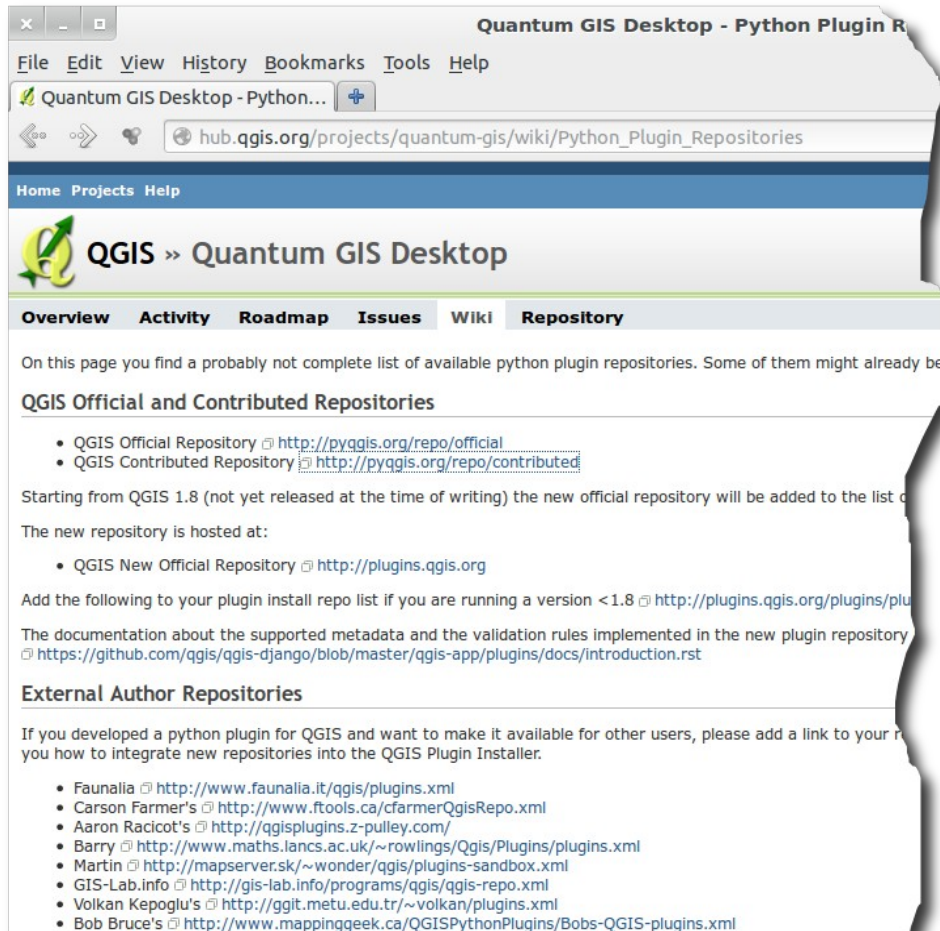
Nuove rappresentazioni

Cartogrammi



QGIS Plugins

Estendere le funzioni di qgis (es. cartogramma)

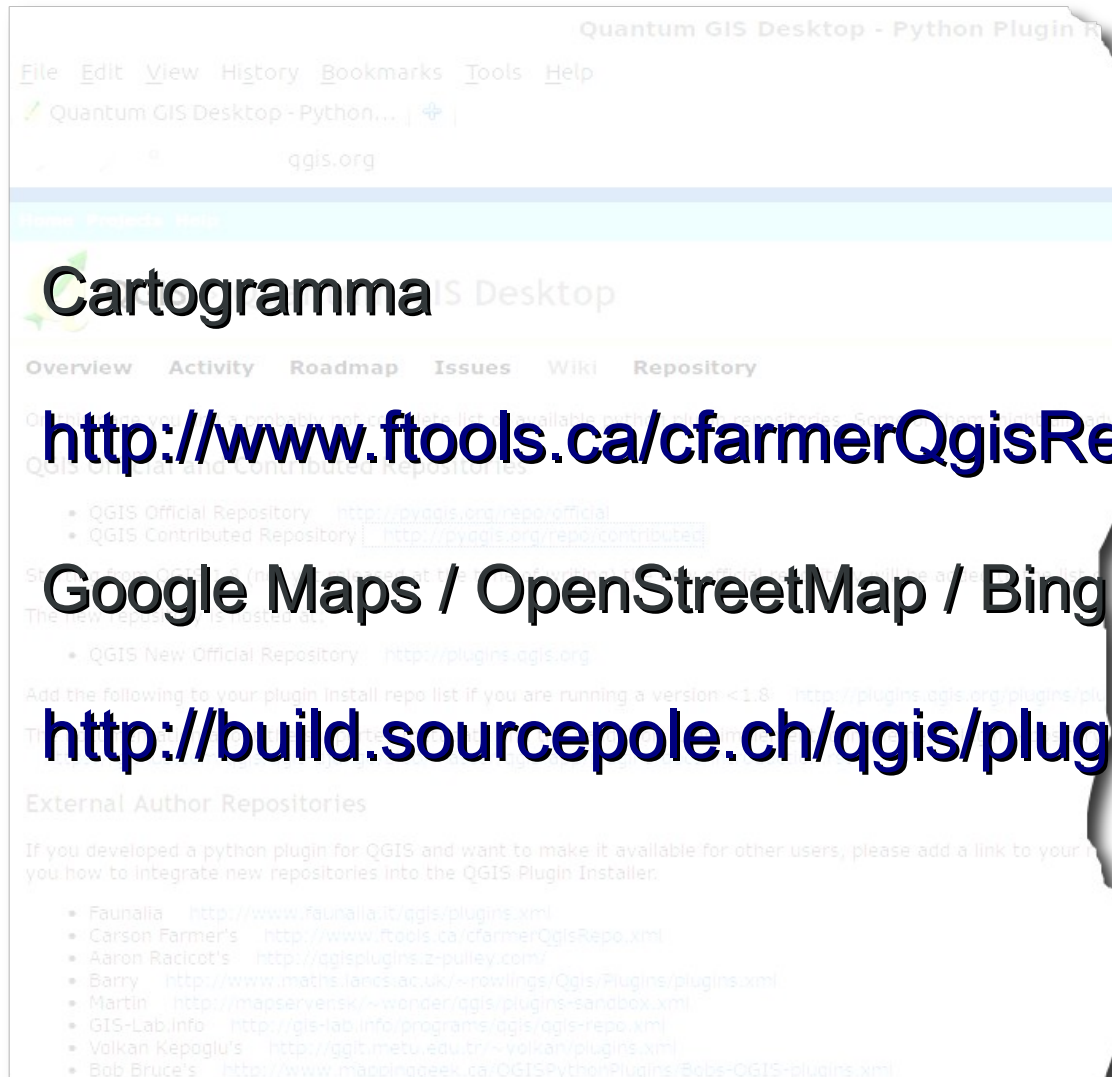


The screenshot shows a web browser window titled "Quantum GIS Desktop - Python Plugin R...". The address bar displays "hub.qgis.org/projects/quantum-gis/wiki/Python_Plugin_Repositories". The page content includes a navigation menu with "Home", "Projects", and "Help". Below the QGIS logo, the page title is "QGIS » Quantum GIS Desktop". A sub-menu highlights "Repository". The main text states: "On this page you find a probably not complete list of available python plugin repositories. Some of them might already be...". A section titled "QGIS Official and Contributed Repositories" lists two items: "QGIS Official Repository" with URL <http://pyqgis.org/repo/official> and "QGIS Contributed Repository" with URL <http://pyqgis.org/repo/contributed>. Another section mentions "Starting from QGIS 1.8 (not yet released at the time of writing) the new official repository will be added to the list of..." and lists "The new repository is hosted at:" with "QGIS New Official Repository" at <http://plugins.qgis.org>. A note for older versions (< 1.8) points to <http://plugins.qgis.org/plugins/plu>. Documentation for metadata and validation rules is provided at <https://github.com/qgis/qgis-django/blob/master/qgis-app/plugins/docs/introduction.rst>. The "External Author Repositories" section lists several external sources: Faunalia (<http://www.faunalia.it/qgis/plugins.xml>), Carson Farmer's (<http://www.ftools.ca/cfarmerQgisRepo.xml>), Aaron Racicot's (<http://qgisplugins.z-pulley.com/>), Barry (<http://www.maths.lancs.ac.uk/~rowlings/Qgis/Plugins/plugins.xml>), Martin (<http://mapserver.sk/~wonder/qgis/plugins-sandbox.xml>), GIS-Lab.info (<http://gis-lab.info/programs/qgis/qgis-repo.xml>), Volkan Kepoglu's (<http://ggit.metu.edu.tr/~volkan/plugins.xml>), and Bob Bruce's (<http://www.mappinggeek.ca/QGISPythonPlugins/Bobs-QGIS-plugins.xml>).

http://hub.qgis.org/projects/quantum-gis/wiki/Python_Plugin_Repositories

QGIS Plugins

Estendere le funzioni di qgis (es. cartogramma)



Quantum GIS Desktop - Python Plugin R

File Edit View History Bookmarks Tools Help

Quantum GIS Desktop - Python... +

qgis.org

Cartogramma S Desktop

Overview Activity Roadmap Issues Wiki Repository

<http://www.ftools.ca/cfarmerQgisRepo.xml>

- QGIS Official Repository <http://pyqgis.org/repo/official>
- QGIS Contributed Repository <http://pyqgis.org/repo/contributed>

Google Maps / OpenStreetMap / Bing in background

- QGIS New Official Repository <http://plugins.qgis.org>

Add the following to your plugin install repo list if you are running a version <1.8 <http://plugins.qgis.org/plugins/pl>

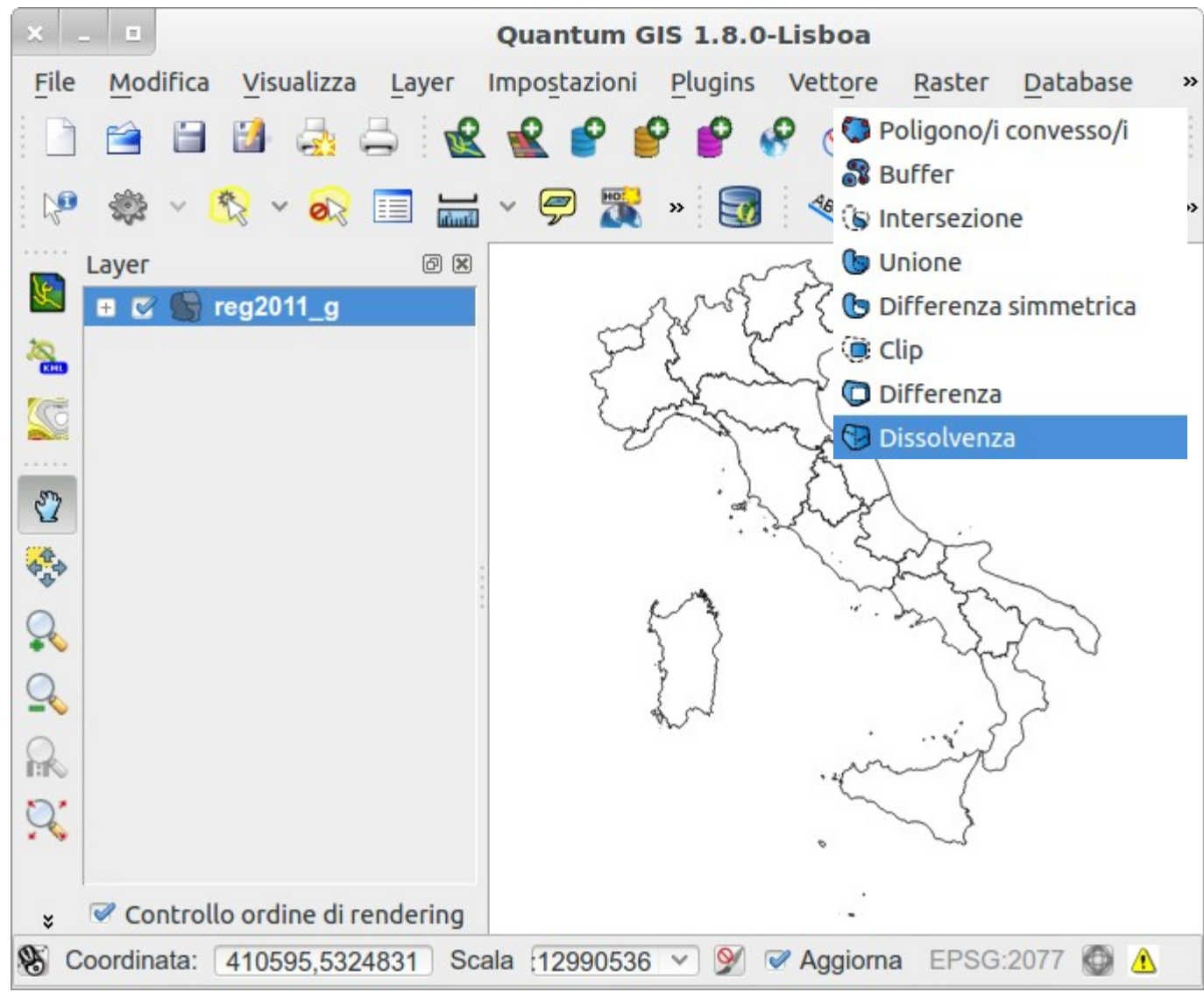
External Author Repositories

If you developed a python plugin for QGIS and want to make it available for other users, please add a link to your repository to this page. This page shows you how to integrate new repositories into the QGIS Plugin Installer:

- Faunalia <http://www.faunalia.it/qgis-plugins.xml>
- Carson Farmer's <http://www.ftools.ca/cfarmerQgisRepo.xml>
- Aaron Racicot's <http://qgisplugins@z-pulley.com/>
- Barry <http://www.maths.lancs.ac.uk/~rowlings/Qgis/Plugins/plugins.xml>
- Martin <http://mapservensk/~wonder/qgis/plugins-sandbox.xml>
- GIS-Lab.info <http://gis-lab.info/programs/qgis/qgis-repo.xml>
- Volkan Kepoglu's <http://ggit.metu.edu.tr/~volkan/plugins.xml>
- Bob Bruce's <http://www.mappinggeeks.ca/QGISPythonPlugins/Bobs-QGIS-plugins.xml>

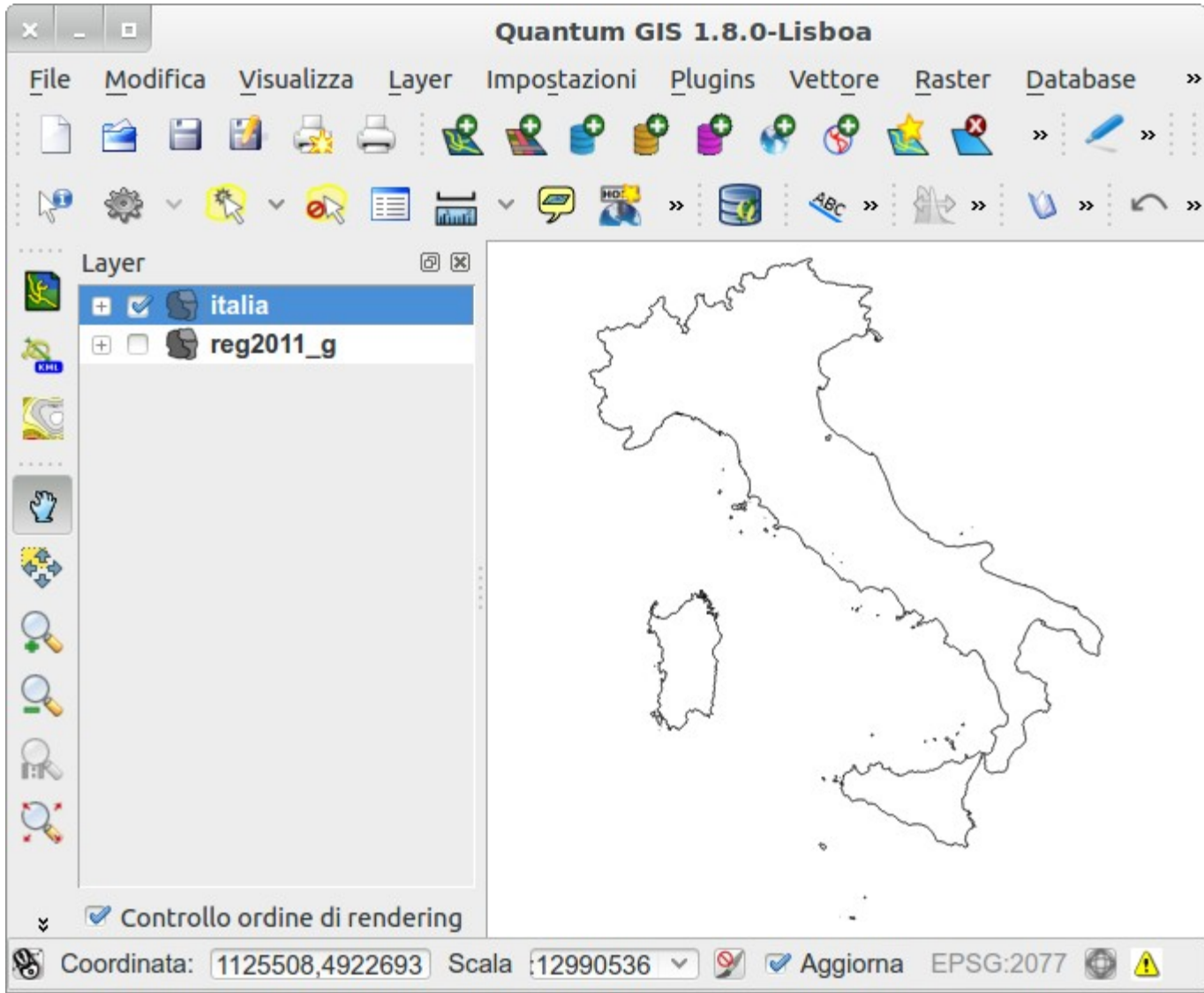
Geoprocessing

Dissolvenza per ottenere il confine di stato



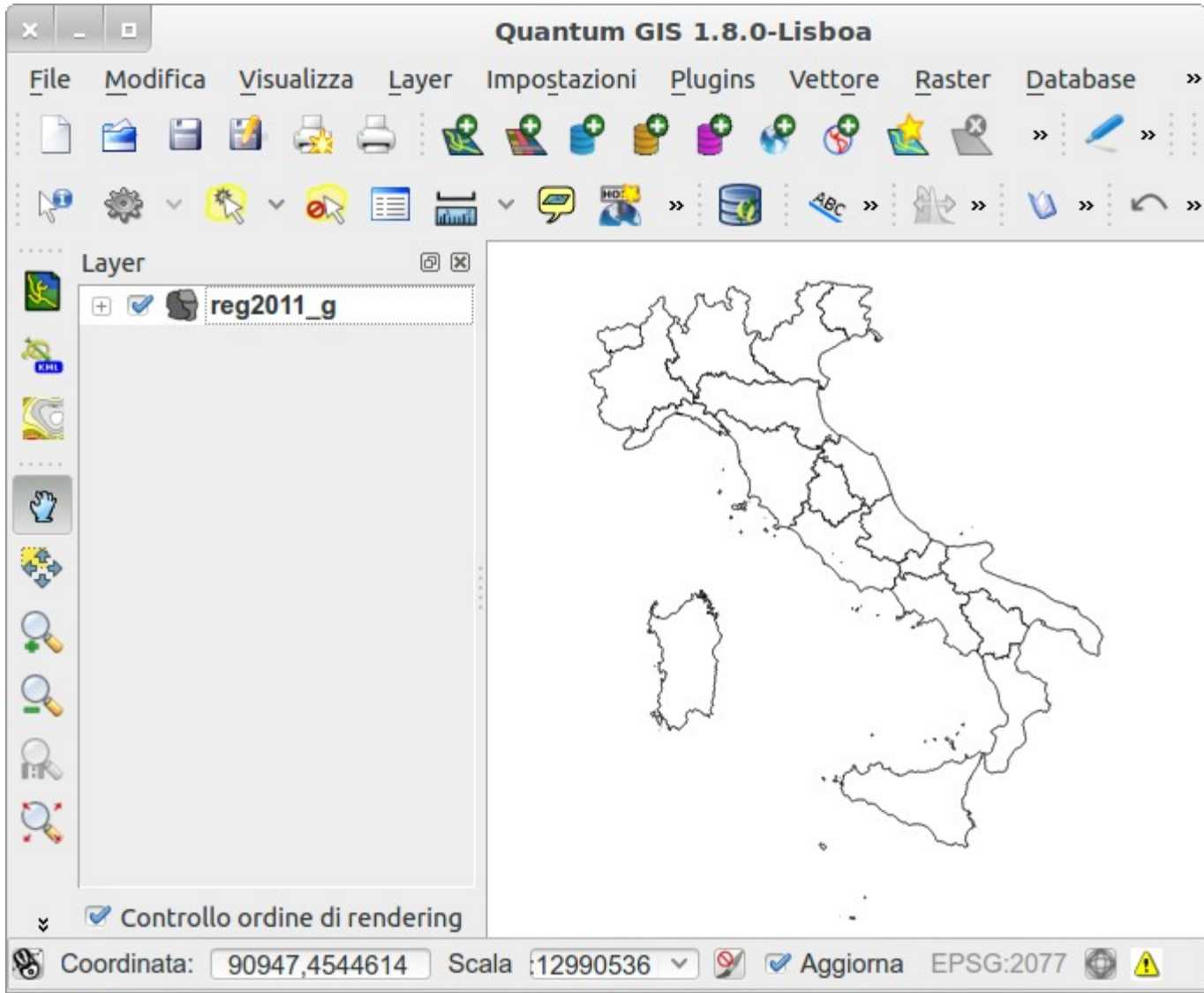
Geoprocessing

Dissolvenza per ottenere il confine di stato



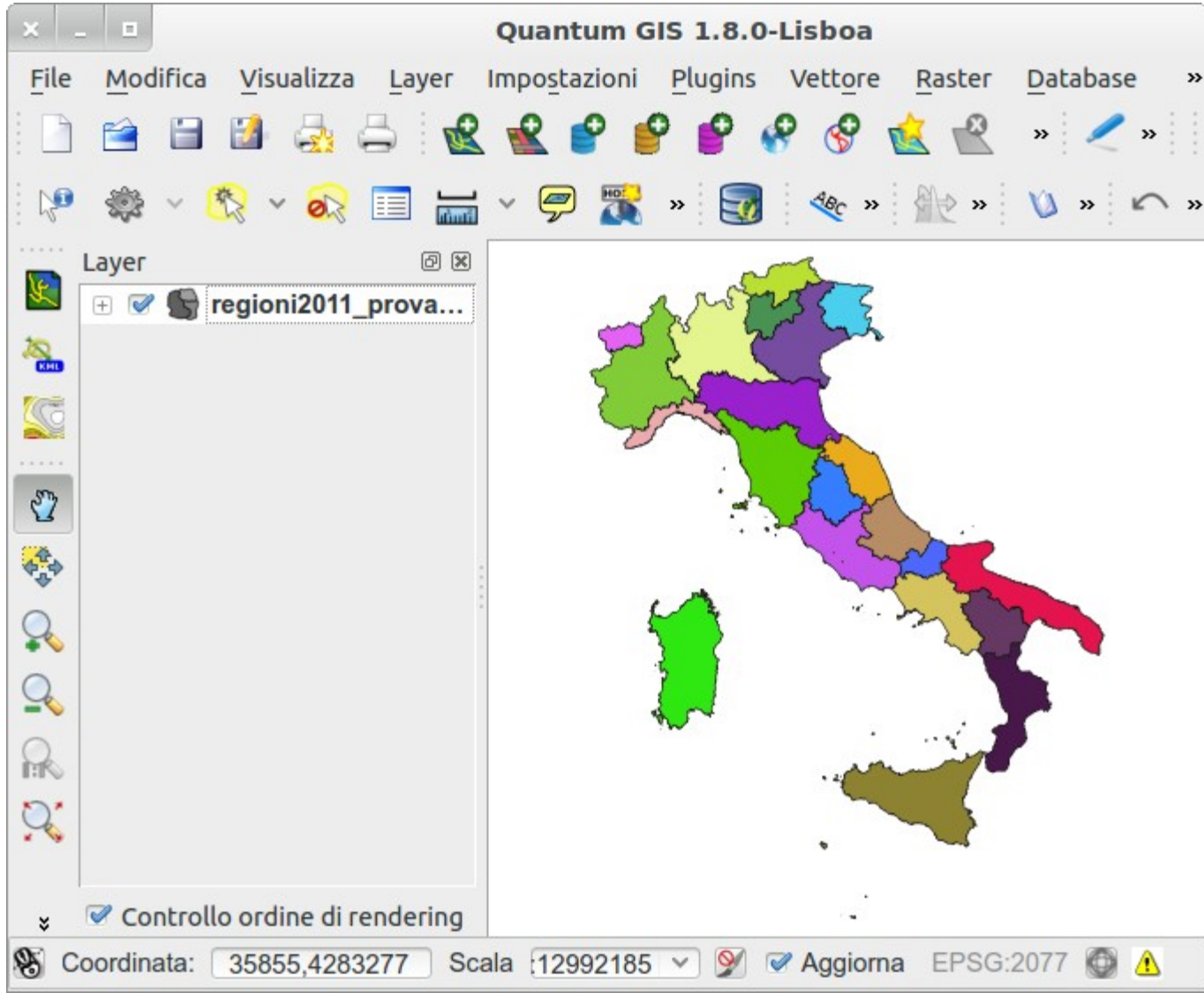
Cambiare le geometrie

Via il Trentino Alto Adige



Cambiare le geometrie

... ed ora l'Italia con le due Province Autonome



Grazie per l'attenzione

Email: napo@fbk.eu

Blog: de.straba.us

Twitter: [@napo](https://twitter.com/napo)

Slide: slideshare.net/napo

