



# Introdução aos Sistemas de Informação Geográfica -SIG

Quantum GIS



Jorge Ribeiro

jribeiro@estg.ipvc.pt

School of Technology and Management

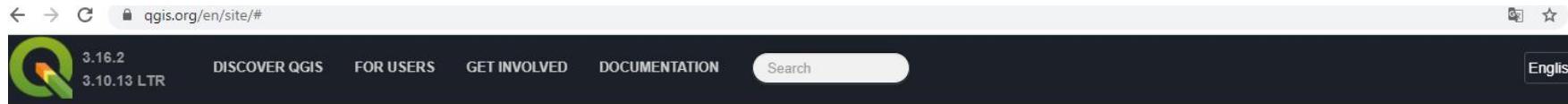
Polytechnic Institute of Viana do Castelo

[www.ipvc.pt](http://www.ipvc.pt)

PORTUGAL

# Agenda

<https://qgis.org>



The screenshot shows the top navigation bar of the QGIS website. It includes a logo for QGIS 3.16.2 and 3.10.13 LTR, links for 'DISCOVER QGIS', 'FOR USERS', 'GET INVOLVED', and 'DOCUMENTATION', a search bar, and a language selection for 'English'.

## QGIS

A Free and Open Source Geographic Information System



Create, edit, visualise, analyse and publish geospatial information on Windows, Mac, Linux, BSD and mobile devices

For your desktop, server, in your web browser and as developer libraries

[Download Now](#)

[Support QGIS](#)



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← → 🔍 [qgis.org/en/site/forusers/download.html](https://qgis.org/en/site/forusers/download.html)

 3.16.2  
3.10.13 LTR      DISCOVER QGIS      FOR USERS      GET INVOLVED      DOCUMENTATION      Search

## Download QGIS for your platform

Binary packages (installers) are available from this page.

The current version is QGIS 3.16.2 'Hannover' and was released on 21.12.2020.

The long-term repositories currently offer QGIS 3.10.13 'A Coruña'.

QGIS is available on Windows, macOS, Linux and Android.

INSTALLATION DOWNLOADS    ALL RELEASES    SOURCES

### Download for Windows

QGIS in OSGeo4W:

 [OSGeo4W Network Installer \(64 bit\)](#) 

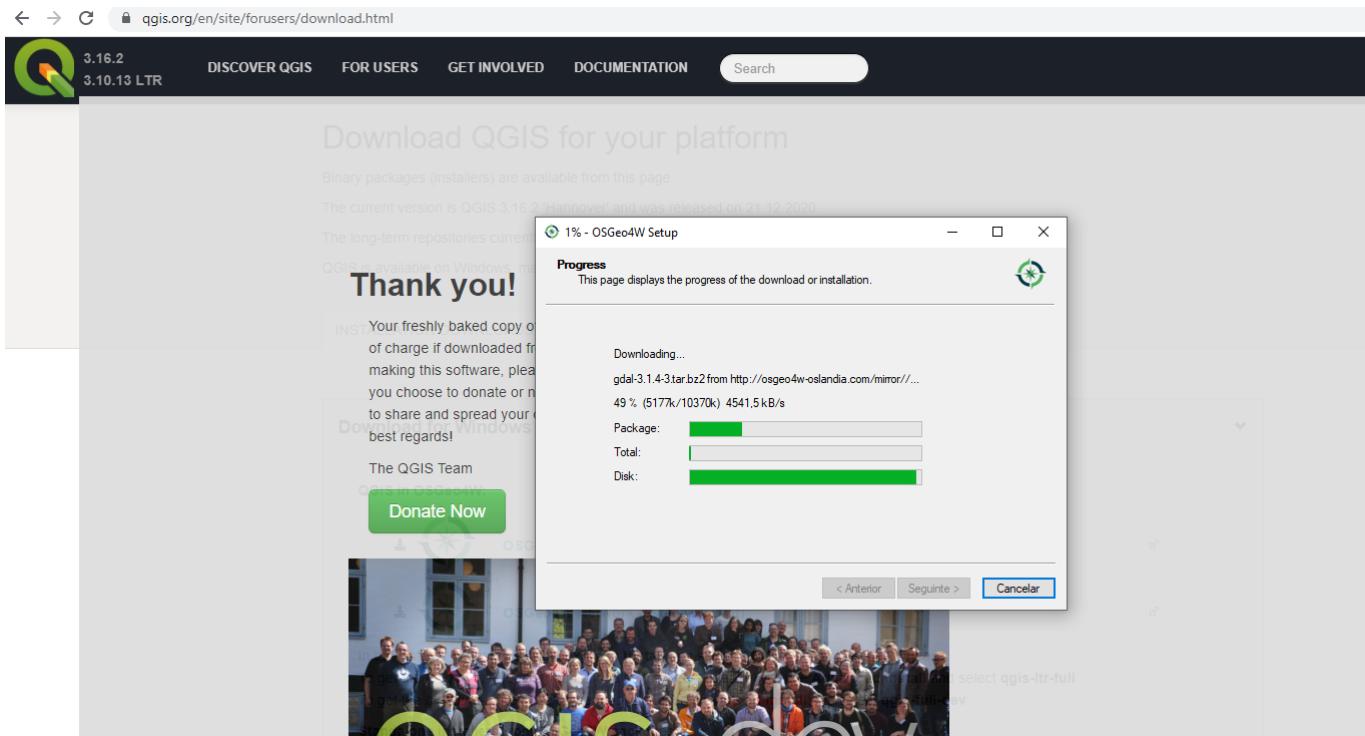
 [OSGeo4W Network Installer \(32 bit\)](#) 

In the installer choose **Desktop Express Install** and select **QGIS** to install the *latest release*.  
To get the *long term release* (that is not also the latest release) choose **Advanced Install** and select **qgis-ltr-full**  
To get the *bleeding-edge development build* choose **Advanced Install** and select **qgis-full-dev**

**Standalone installers from OSGeo4W packages**

Latest release (richest on features):

# Agenda



The screenshot shows the QGIS download page at [qgis.org/en/site/forusers/download.html](http://qgis.org/en/site/forusers/download.html). The page displays the QGIS logo and version information (3.16.2, 3.10.13 LTR). It features a "Thank you!" message and a "Donate Now" button. A progress dialog box titled "1% - OSGeo4W Setup" is overlaid on the page, showing the download of "gdal-3.1.4-3.tar.bz2" from "http://osgeo4w-oslandia.com/mirror//...". The progress bar is at 49% completion.



Quantum GIS  
Guia do Usuário  
Versão 1.7.4 'Wroclaw'

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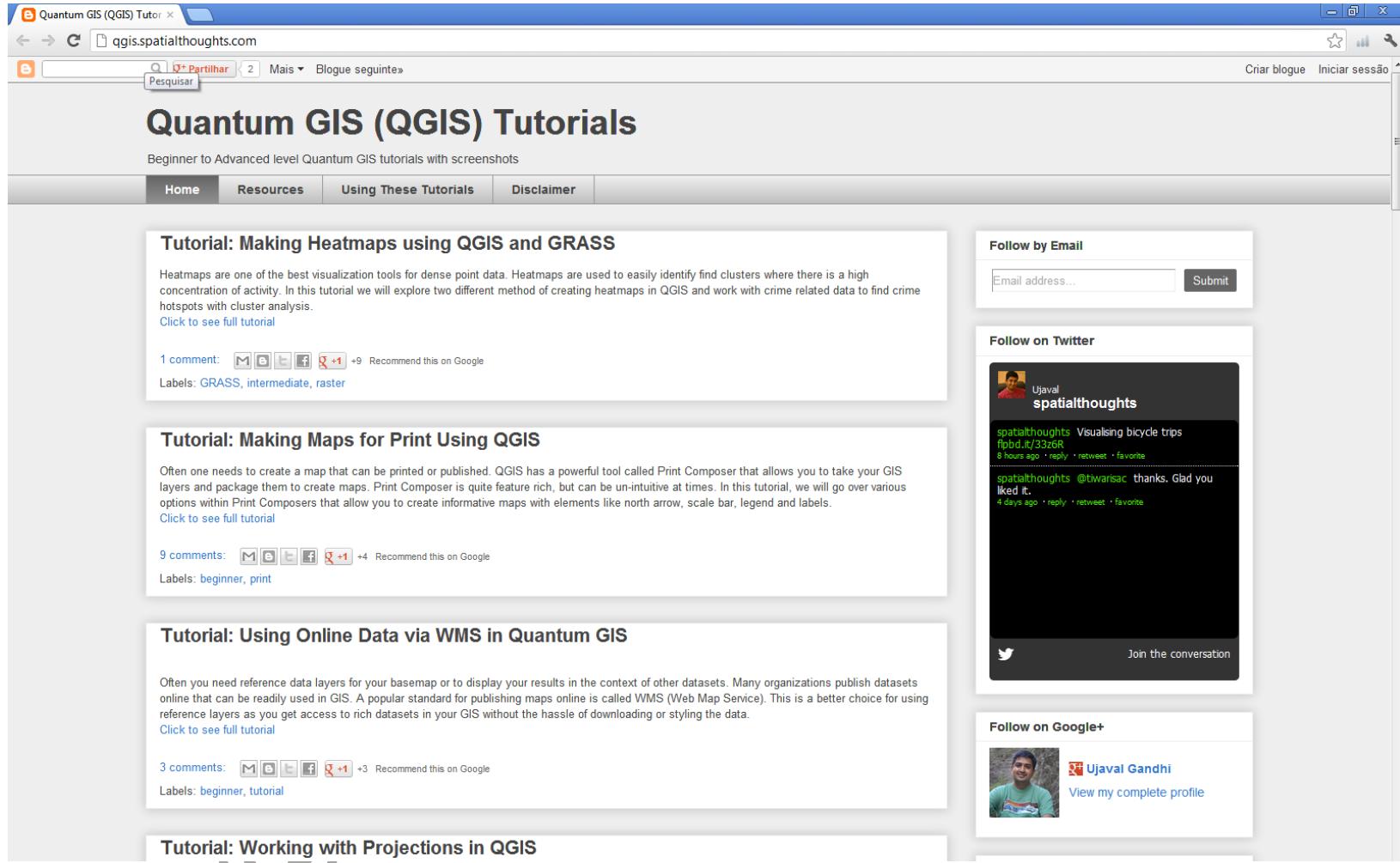
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Quantum GIS

# Agenda

The screenshot shows the Quantum GIS documentation website. At the top, there's a navigation bar with links for Manuals, Wiki, Planet, Chat, Bugs, Shop, Download, and Questions. Below the navigation is a banner featuring a historical painting of a harbor and the text "Quantum GIS Version 1.8.0 'Lisboa'". The main content area is titled "Manuals" and contains information about the QGIS project's documentation. It mentions a gentle GIS introduction, a User Guide, a Coding and Compilation Guide, and an API Documentation. It also encourages users to translate the English manual into other languages. Below this, there's a section for the "QGIS User Guide" which is described as the original User Guide of the software. It notes that the document is released under the GNU Free Documentation License. Further down, there's a section for "QGIS 1.7" which lists several PDF versions available for download in English, German, Italian, Russian, French, and Portuguese. There's also a note about the conversion from LaTeX/SVN to RST/Sphinx/GIT. The bottom of the page has sections for "QGIS 1.6" and "QGIS 1.5", each with a list of PDF files available for download. The footer of the page includes the OSGeo logo and a "Donate" button.

# Agenda



The screenshot shows a web browser displaying the "Quantum GIS (QGIS) Tutorials" website at [qgis.spatialthoughts.com](http://qgis.spatialthoughts.com). The page features a navigation bar with links for Home, Resources, Using These Tutorials, and Disclaimer. Below the navigation is a search bar and a "Partilhar" (Share) button.

**Tutorial: Making Heatmaps using QGIS and GRASS**

Heatmaps are one of the best visualization tools for dense point data. Heatmaps are used to easily identify find clusters where there is a high concentration of activity. In this tutorial we will explore two different method of creating heatmaps in QGIS and work with crime related data to find crime hotspots with cluster analysis.

[Click to see full tutorial](#)

1 comment: +9 Recommend this on Google

Labels: GRASS, intermediate, raster

**Tutorial: Making Maps for Print Using QGIS**

Often one needs to create a map that can be printed or published. QGIS has a powerful tool called Print Composer that allows you to take your GIS layers and package them to create maps. Print Composer is quite feature rich, but can be un-intuitive at times. In this tutorial, we will go over various options within Print Composers that allow you to create informative maps with elements like north arrow, scale bar, legend and labels.

[Click to see full tutorial](#)

9 comments: +4 Recommend this on Google

Labels: beginner, print

**Tutorial: Using Online Data via WMS in Quantum GIS**

Often you need reference data layers for your basemap or to display your results in the context of other datasets. Many organizations publish datasets online that can be readily used in GIS. A popular standard for publishing maps online is called WMS (Web Map Service). This is a better choice for using reference layers as you get access to rich datasets in your GIS without the hassle of downloading or styling the data.

[Click to see full tutorial](#)

3 comments: +3 Recommend this on Google

Labels: beginner, tutorial

**Tutorial: Working with Projections in QGIS**

Join the conversation

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Ujaval spatialthoughts

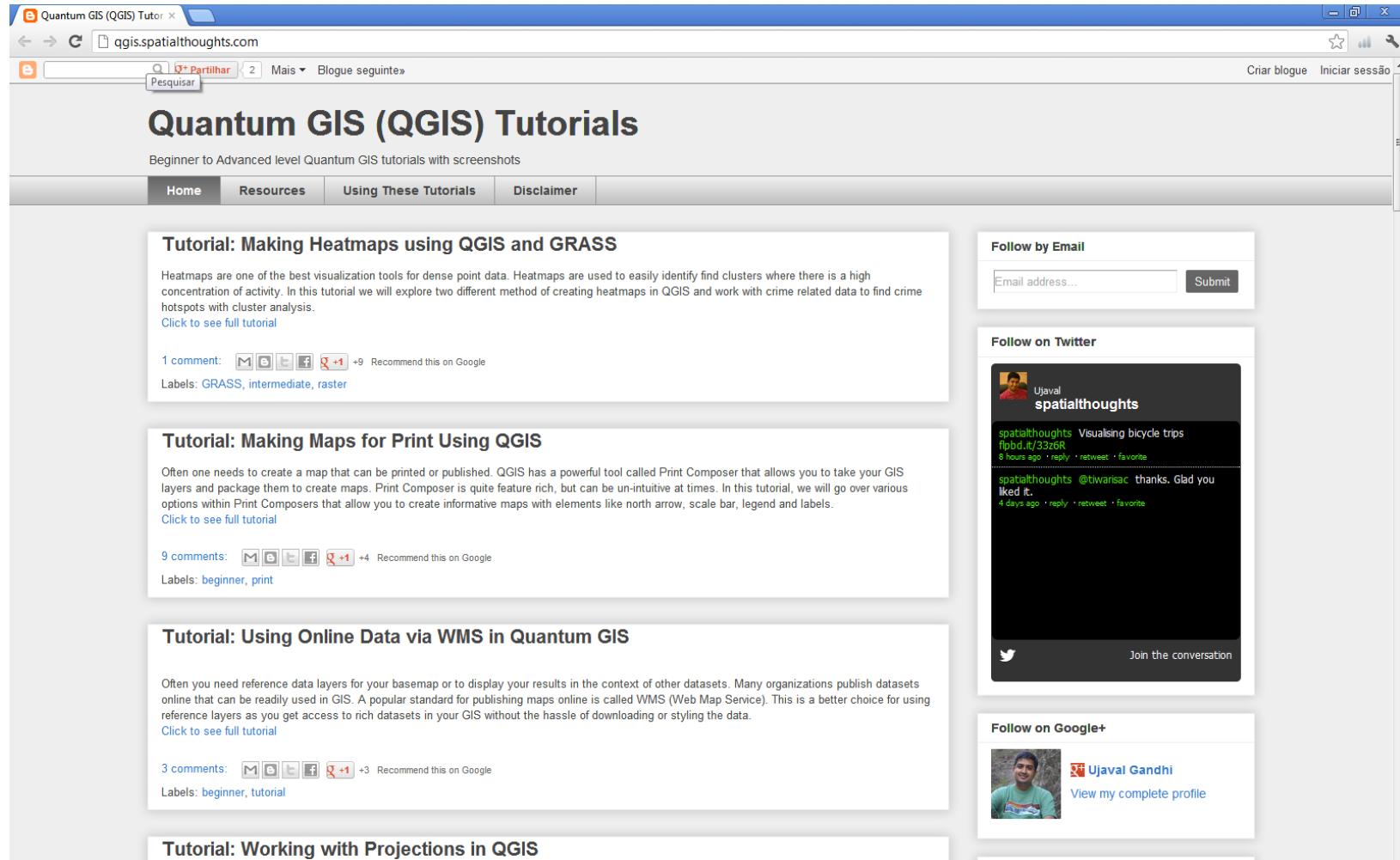
spatialthoughts Visualising bicycle trips [fbcd.it/3326R](http://fbcd.it/3326R) 8 hours ago • reply • retweet • favorite

spatialthoughts @tiwarisac thanks. Glad you liked it. 4 days ago • reply • retweet • favorite

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**Quantum GIS (QGIS) Tutorials**

Beginner to Advanced level Quantum GIS tutorials with screenshots

**Tutorial: Making Heatmaps using QGIS and GRASS**

Heatmaps are one of the best visualization tools for dense point data. Heatmaps are used to easily identify find clusters where there is a high concentration of activity. In this tutorial we will explore two different method of creating heatmaps in QGIS and work with crime related data to find crime hotspots with cluster analysis.

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[Click to see full tutorial](#)

3 comments: +3 Recommend this on Google

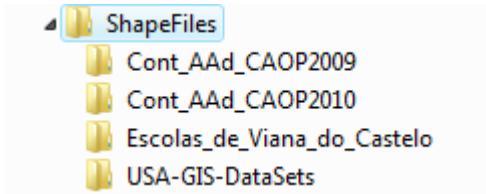
Labels: beginner, tutorial

**Tutorial: Working with Projections in QGIS**

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The screenshot shows a web browser displaying the 'Tutoriais' category of the 'QUANTUM GIS' website at [qgisbrasil.wordpress.com/category/tutoriais/](http://qgisbrasil.wordpress.com/category/tutoriais/). The main header features the 'Quantum GIS BRASIL' logo with a green 'Q' icon and a blue compass rose graphic. Below the header is a navigation menu with links: INÍCIO, BAIXAR, COLABORAR, DOCUMENTAÇÃO, EQUIPE, FAQ, FOMENTO, SOBRE, and SUPORTE. The main content area is titled 'Arquivo da categoria: Tutoriais'. A featured post is titled 'Quantum GIS 1.8 'Lisboa': Instalação no Windows Seven' (published on JUN 17 by jorgepsantos2002). Below the post is a large image of a historical map of Lisbon with the text 'Quantum GIS Version 1.8.0 'Lisboa''. To the right of the main content are two sidebar boxes: one for 'OSGeo Your Open Source Compass' and another for 'open source initiative'. The sidebar also includes links for 'Doar com pagseguro', 'RECENTES' (Demanda de cursos, etc.), and 'CATEGORIAS' (Colabore, Sugestões).

- Considere os Ficheiros (ShapeFiles):



- Cont\_AAd\_CAOP2009.dbf
- Cont\_AAd\_CAOP2009.prj
- Cont\_AAd\_CAOP2009.sbn
- Cont\_AAd\_CAOP2009.sbx
- Cont\_AAd\_CAOP2009.shp
- Cont\_AAd\_CAOP2009.shx
- Cont\_AAd\_CAOP2009.xml

- Cont\_AAD\_CAOP2010.dbf
- Cont\_AAD\_CAOP2010.prj
- Cont\_AAD\_CAOP2010.sbn
- Cont\_AAD\_CAOP2010.sbx
- Cont\_AAD\_CAOP2010.shp
- Cont\_AAD\_CAOP2010.shp.xml
- Cont\_AAD\_CAOP2010.shx



- escolas\_viana.dbf
- escolas\_viana.prj
- escolas\_viana.sbn
- escolas\_viana.sbx
- escolas\_viana.shp
- escolas\_viana.shp.xml
- escolas\_viana.shx

- agcn07p020\_nt00338.tar.gz
- pr9009p010g\_nt00370.tar.gz
- road001\_shp\_nt00308.tar.gz
- roadtr020\_nt00030.tar.gz

<http://geospatialdesktop.com/gis-data/>

# Agenda

- Considere os Ficheiros (ShapeFiles): <http://geospatialdesktop.com/gis-data/>

The Geospatial Desktop  
Open Source GIS & Mapping

Home About the Book Annotated Chapter List Excerpts Illustrations Changes Code GIS Data Resources Contact

**GIS Data**

**Sample Data**

The sample data for Desktop GIS includes world boundaries, cities, and a global mosaic.

- [Download World Boundaries and Cities](#) (3.3 Mb, Shapefiles)
- [Download World Mosaic](#) (31 Mb, TIFF)
- [Bird Data from Chapter 3](#) (1.3 Kb Shapefile)
- [Alaska GNIS Data used in Chapter 9](#) (2.4 Mb, Shapefile)

**Additional Sources**

- [Natural Earth](#)
- [National Atlas](#)
- [http://freegis.org](#) – list of free data sources
- [http://www.data.gov/catalog/geodata](#) – U.S. Geodata

**Categories**

- Apps
- Book
- GDAL
- GMT
- OGR
- QGIS
- Rasters

**Archives**

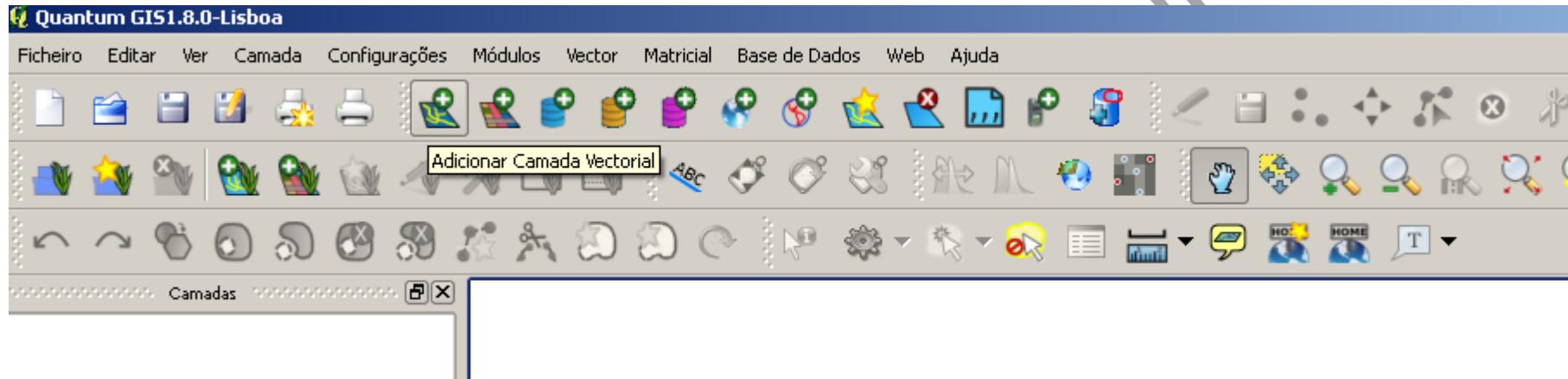
- March 2012
- February 2012
- January 2012
- November 2011
- April 2009
- February 2009
- January 2009
- December 2008
- March 2008
- February 2008
- January 2008

**Meta**

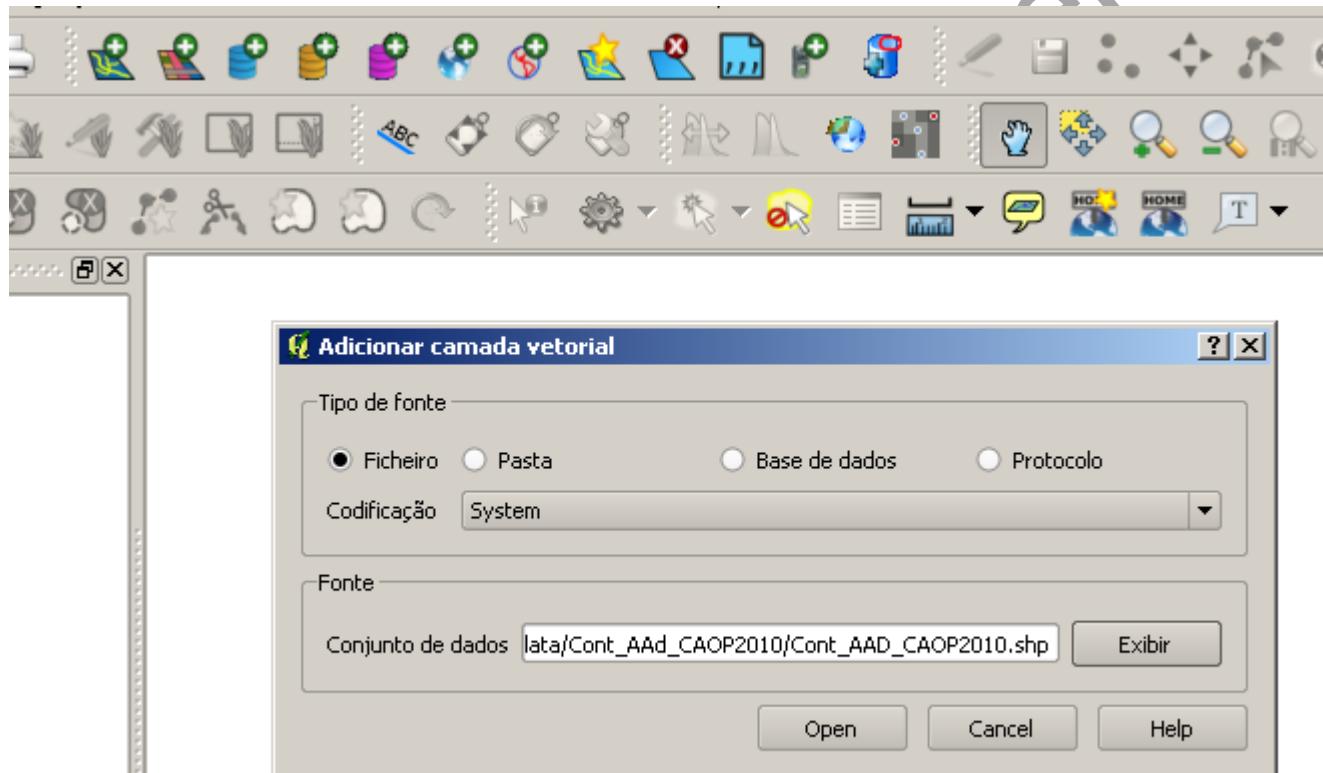
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- Entries RSS
- Comments RSS

Search Find

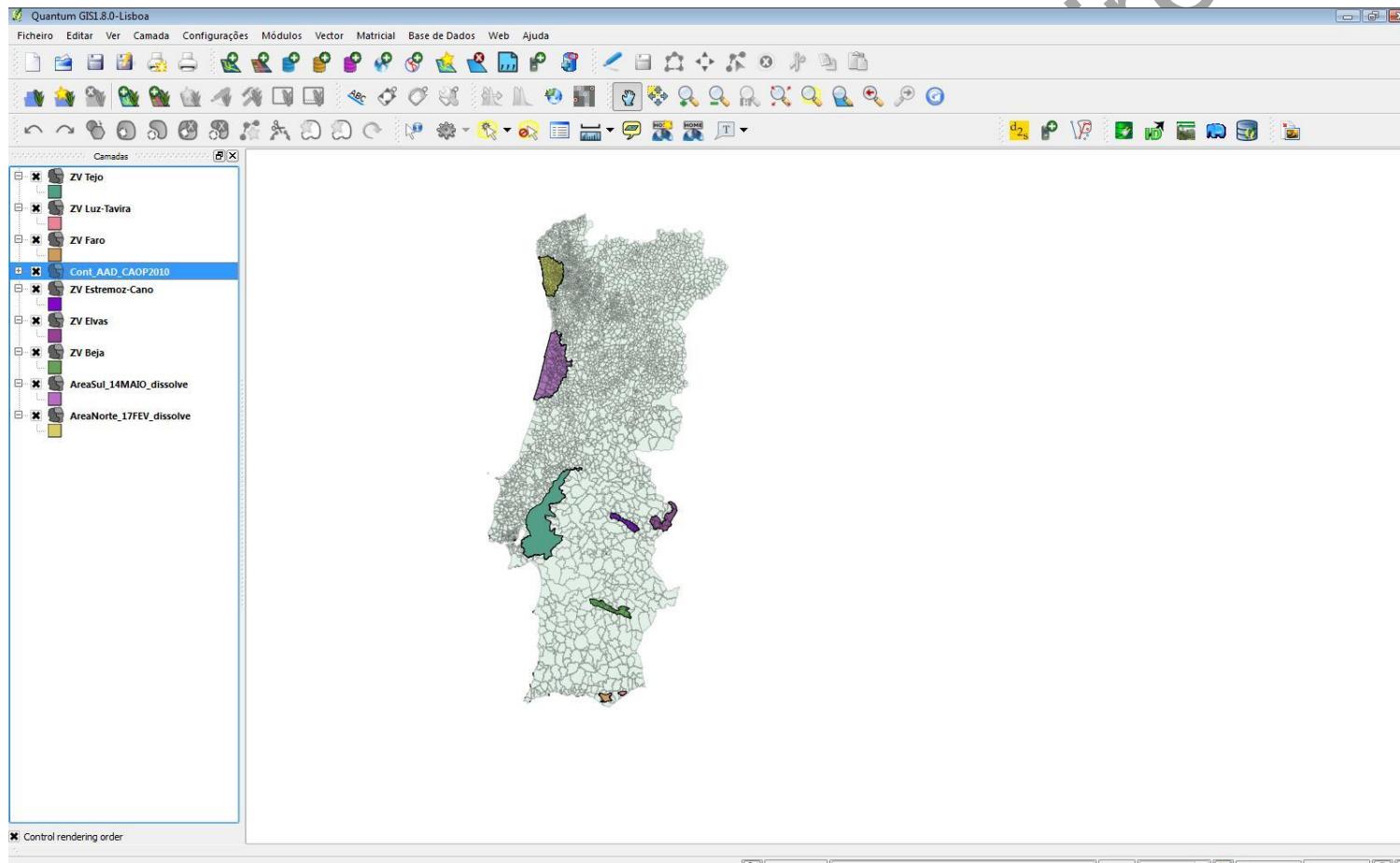
- Visualize-os no Quantum GIS:



- Visualize-os no Quantum GIS:

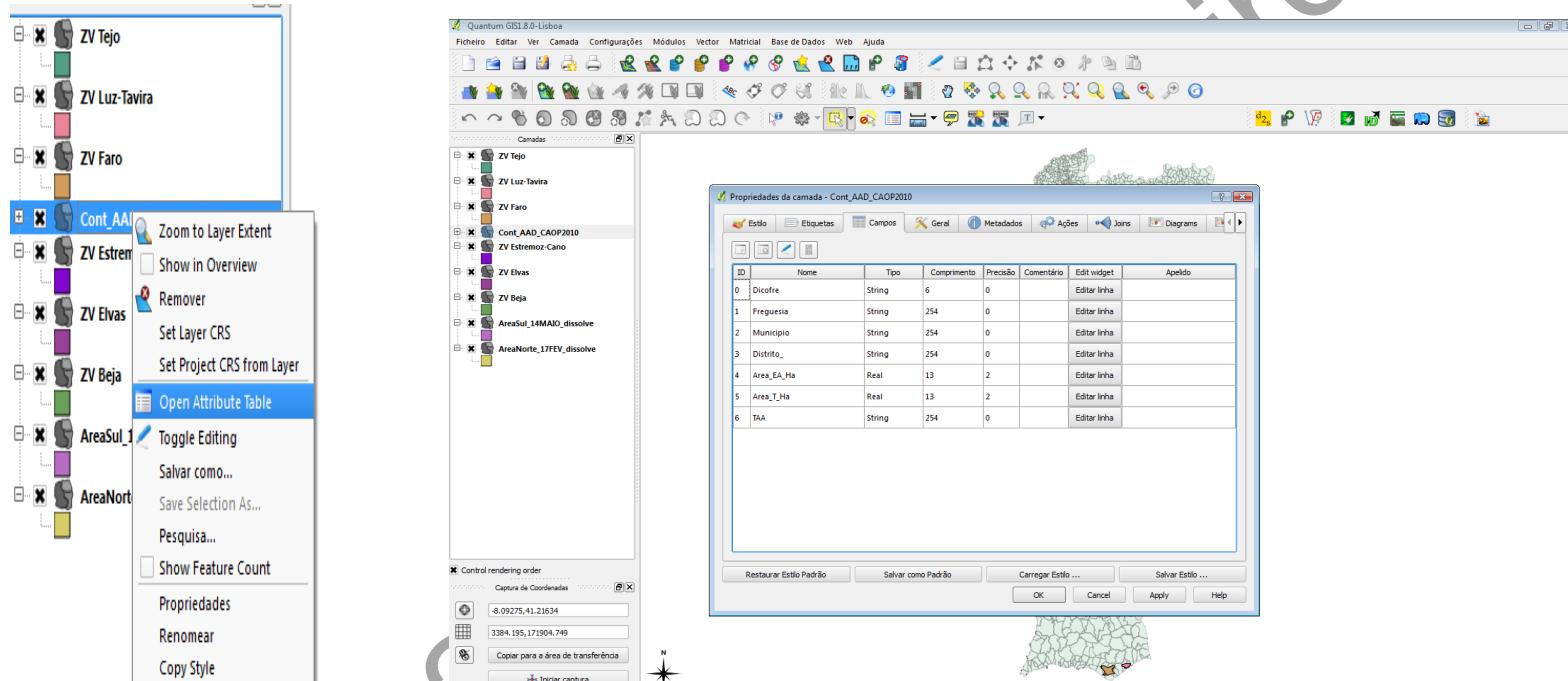


- Visualize-os no Quantum GIS:

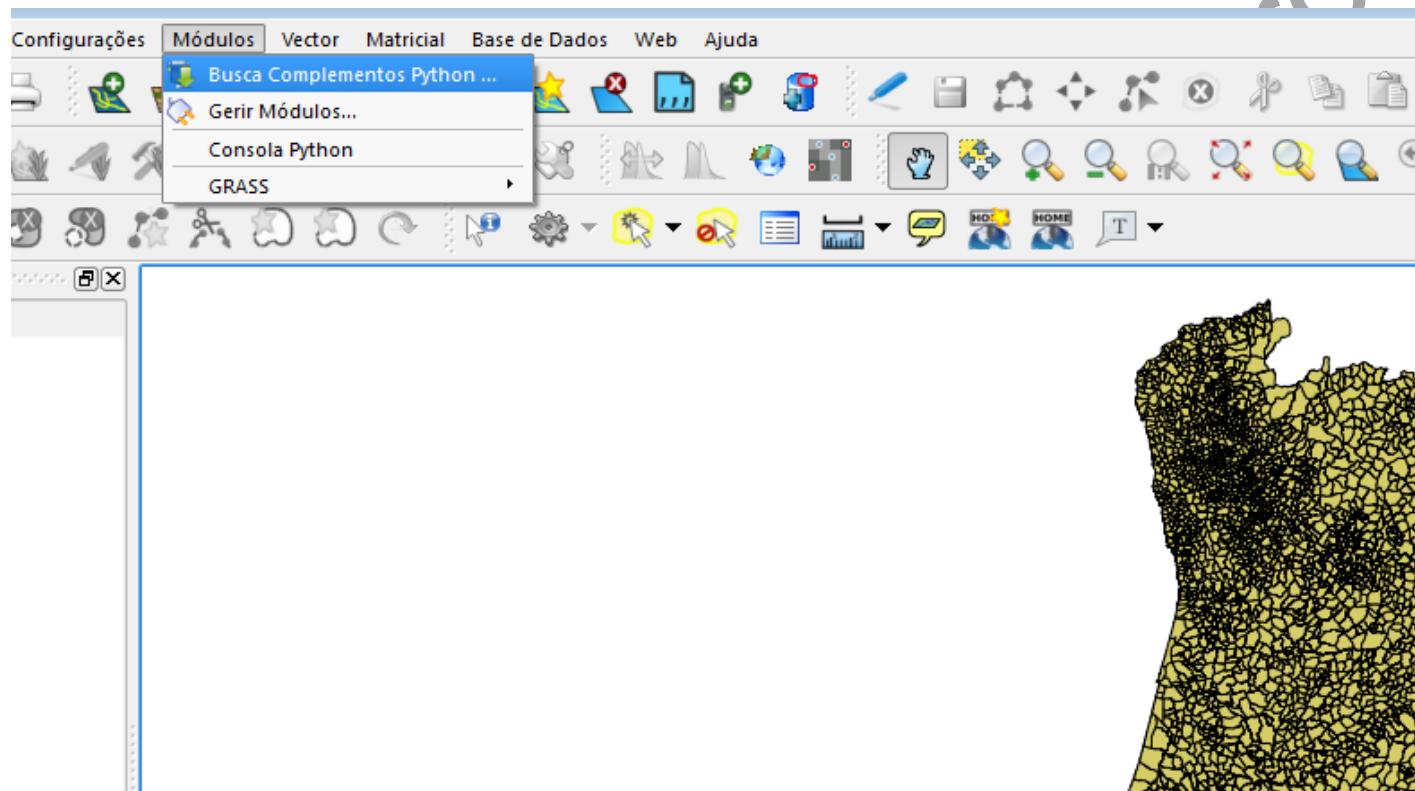


# Agenda

## • Visualize-os no Quantum GIS:



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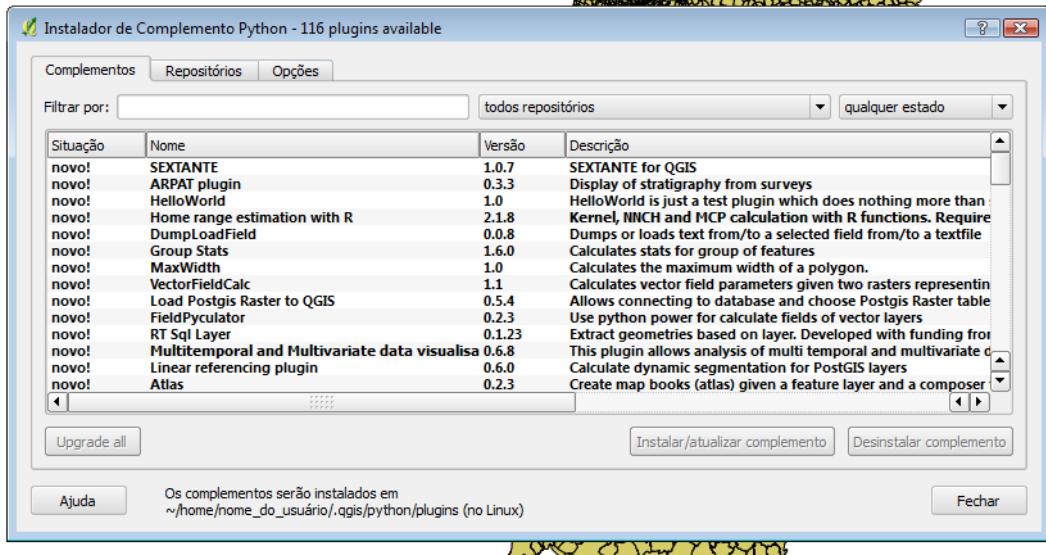


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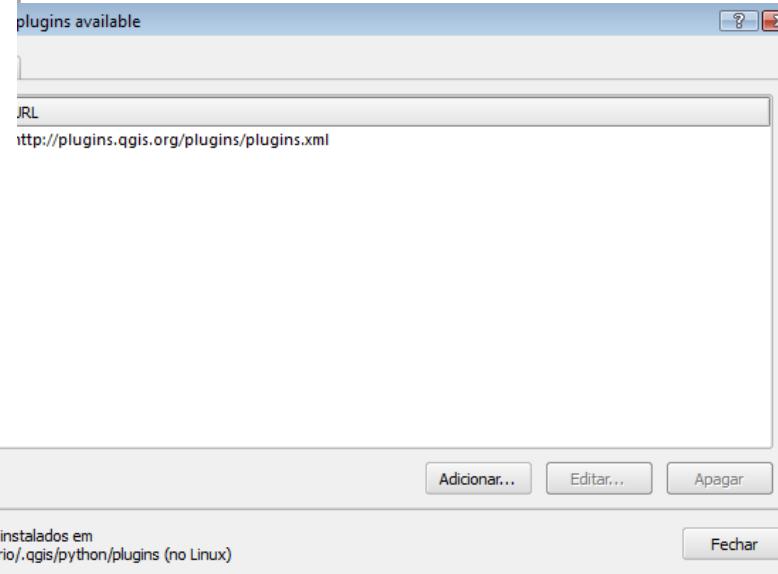
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# Agenda

## • Visualize-os no Quantum GIS:



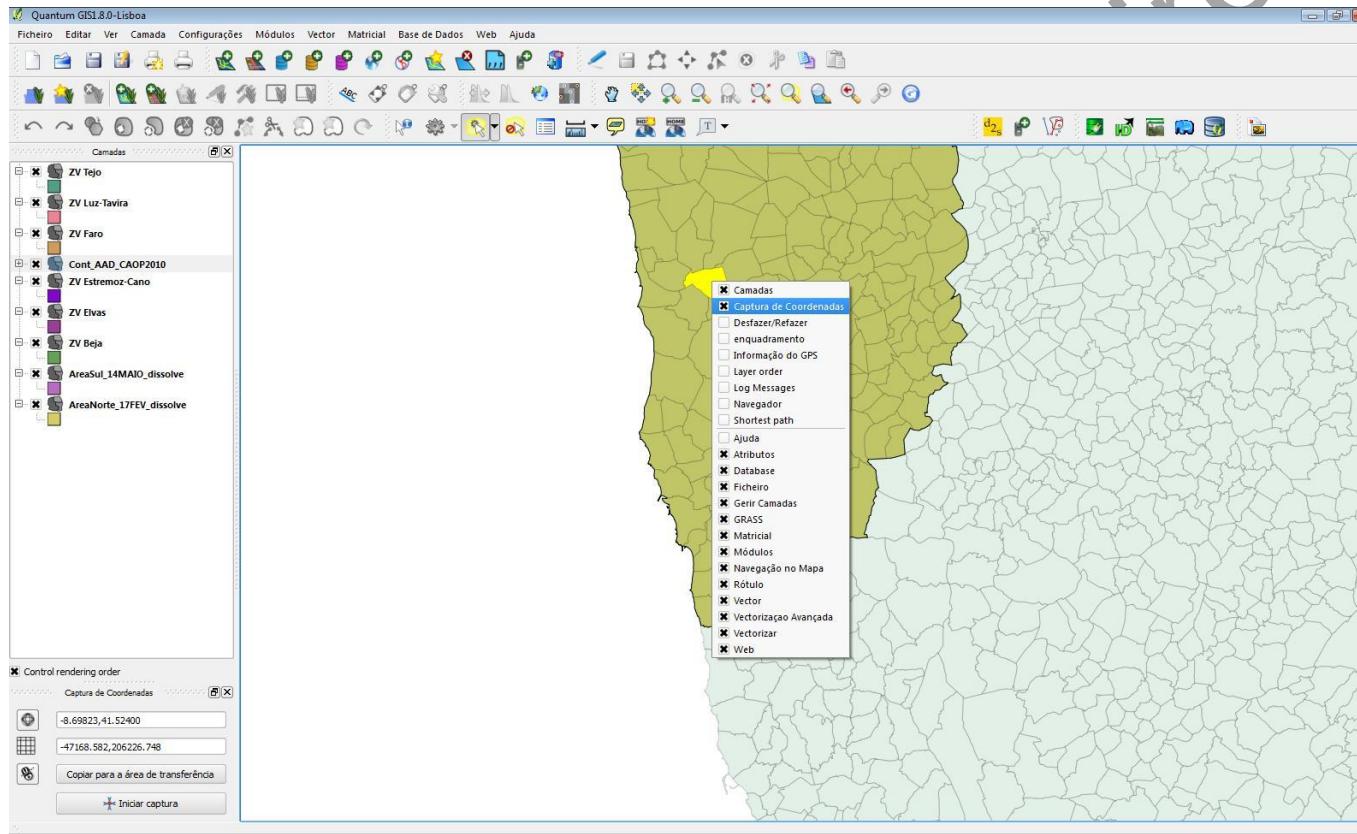
Ribeiro



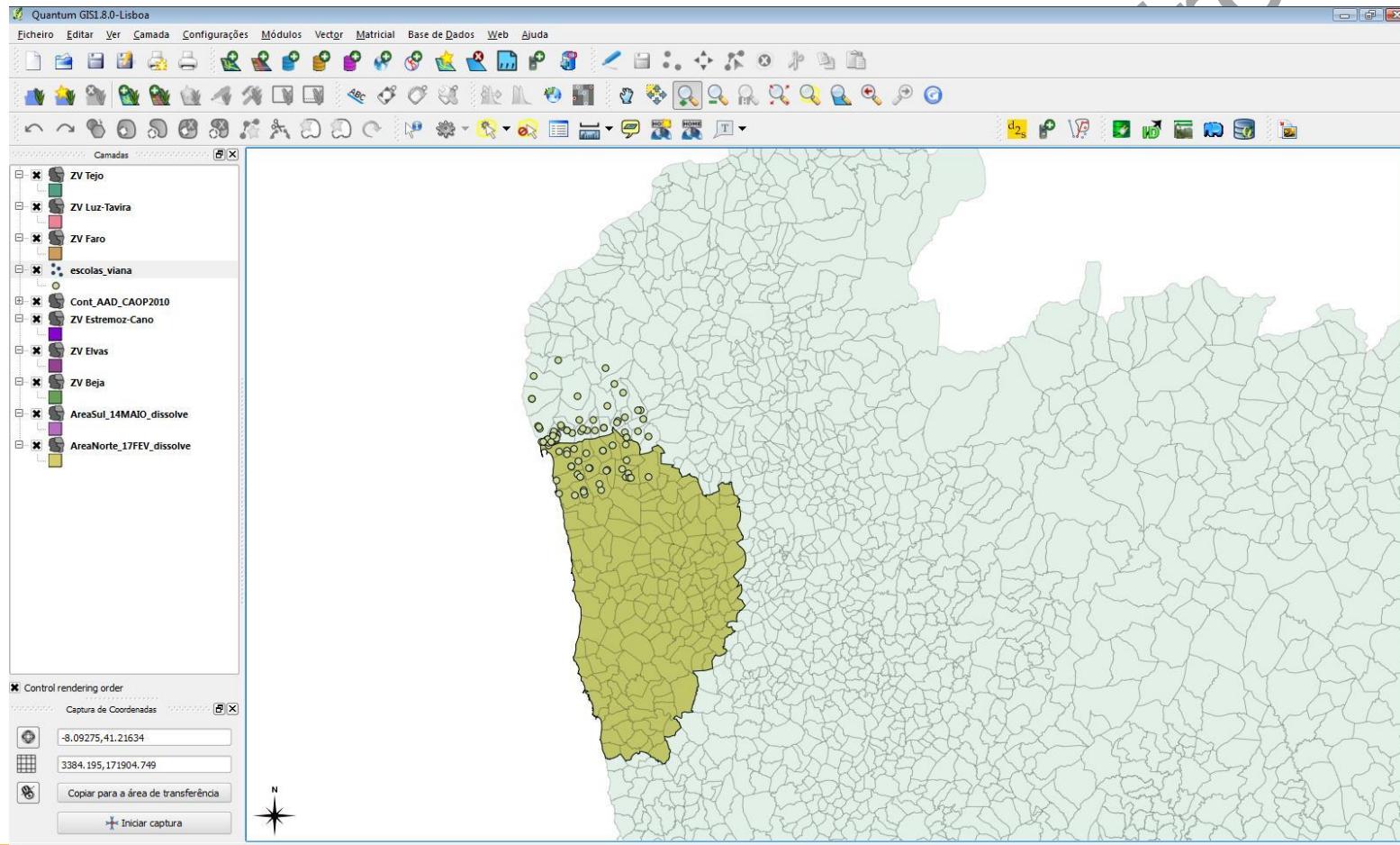
@2023

# Agenda

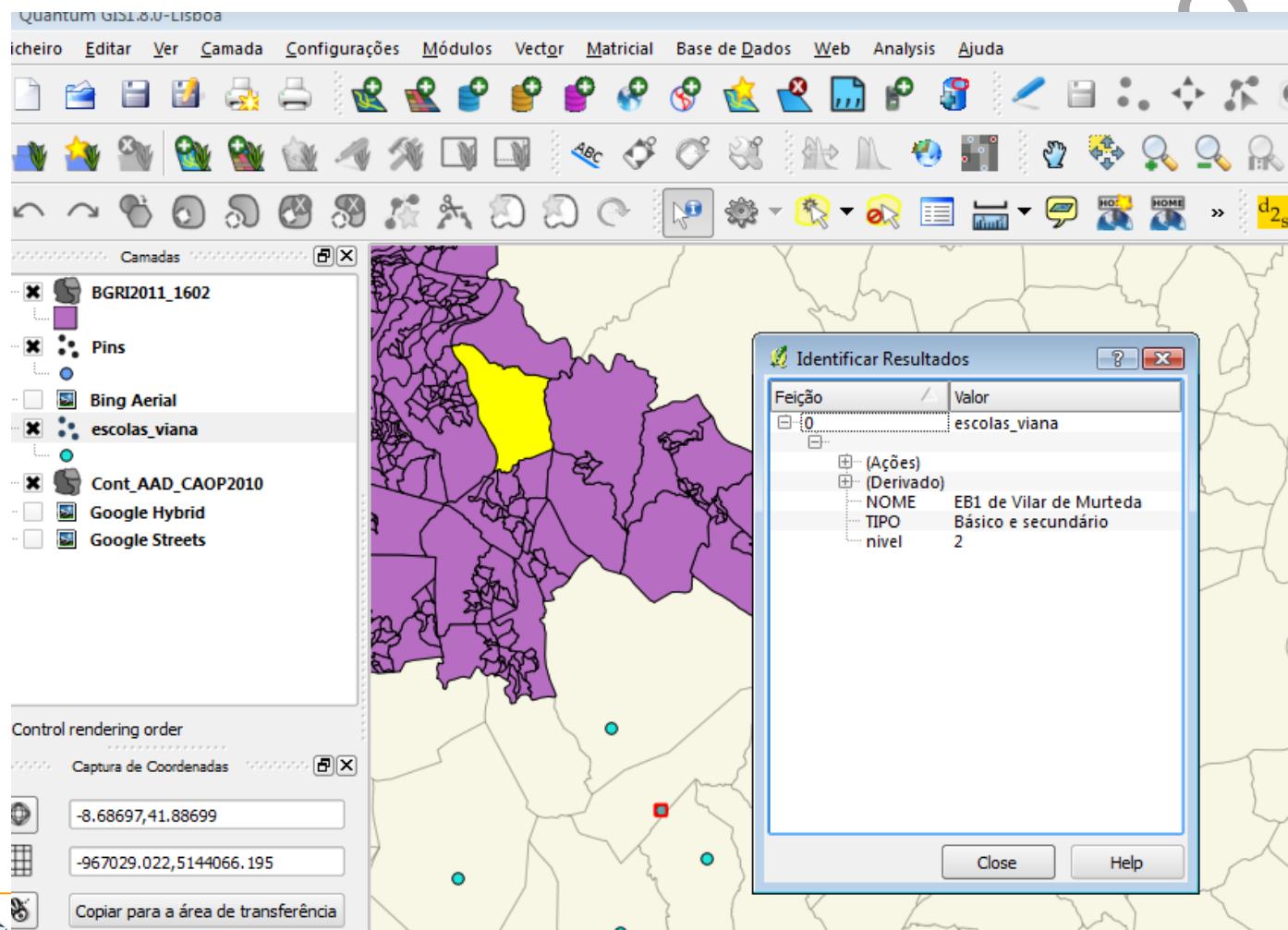
## • Visualize-os no Quantum GIS:



- Visualize-os no Quantum GIS:

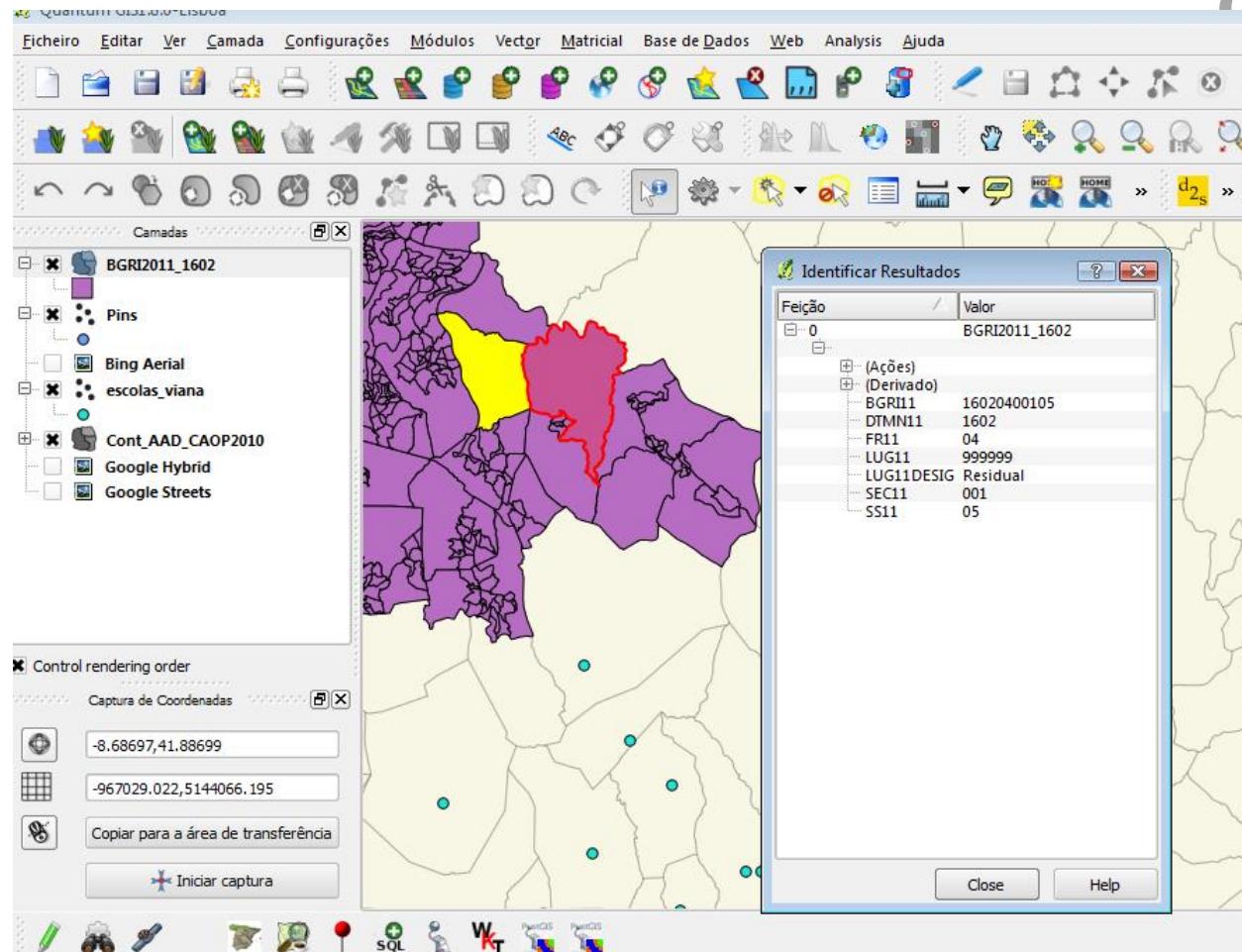


- Visualize-os no Quantum GIS:



# Agenda

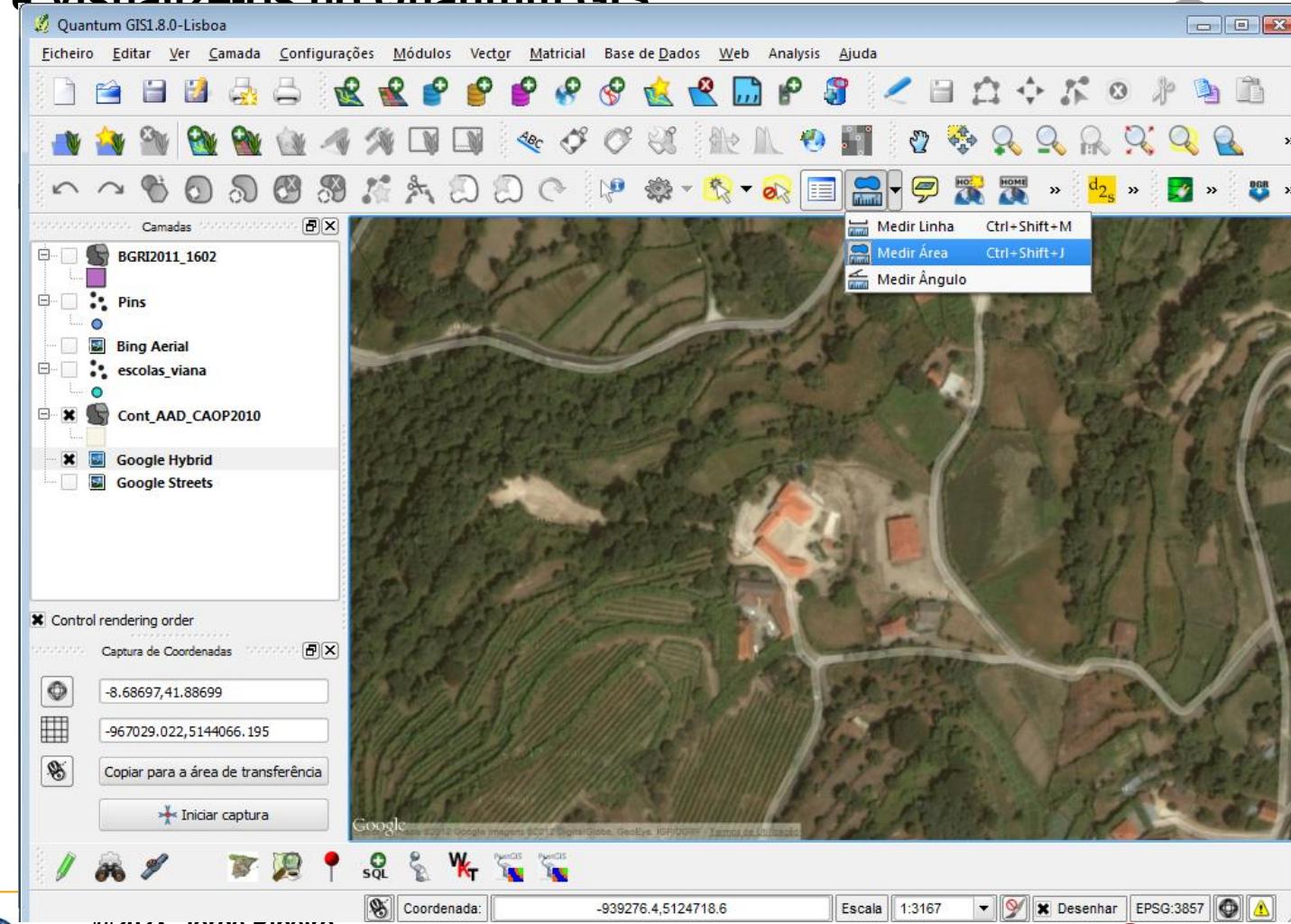
- Visualize-os no Quantum GIS:



DISTRITO:1602  
FREGUESIA:04  
SECÇÃO:001  
SUB-SECÇÃO:05

# Agenda

## • Visualize-os no Quantum GIS:

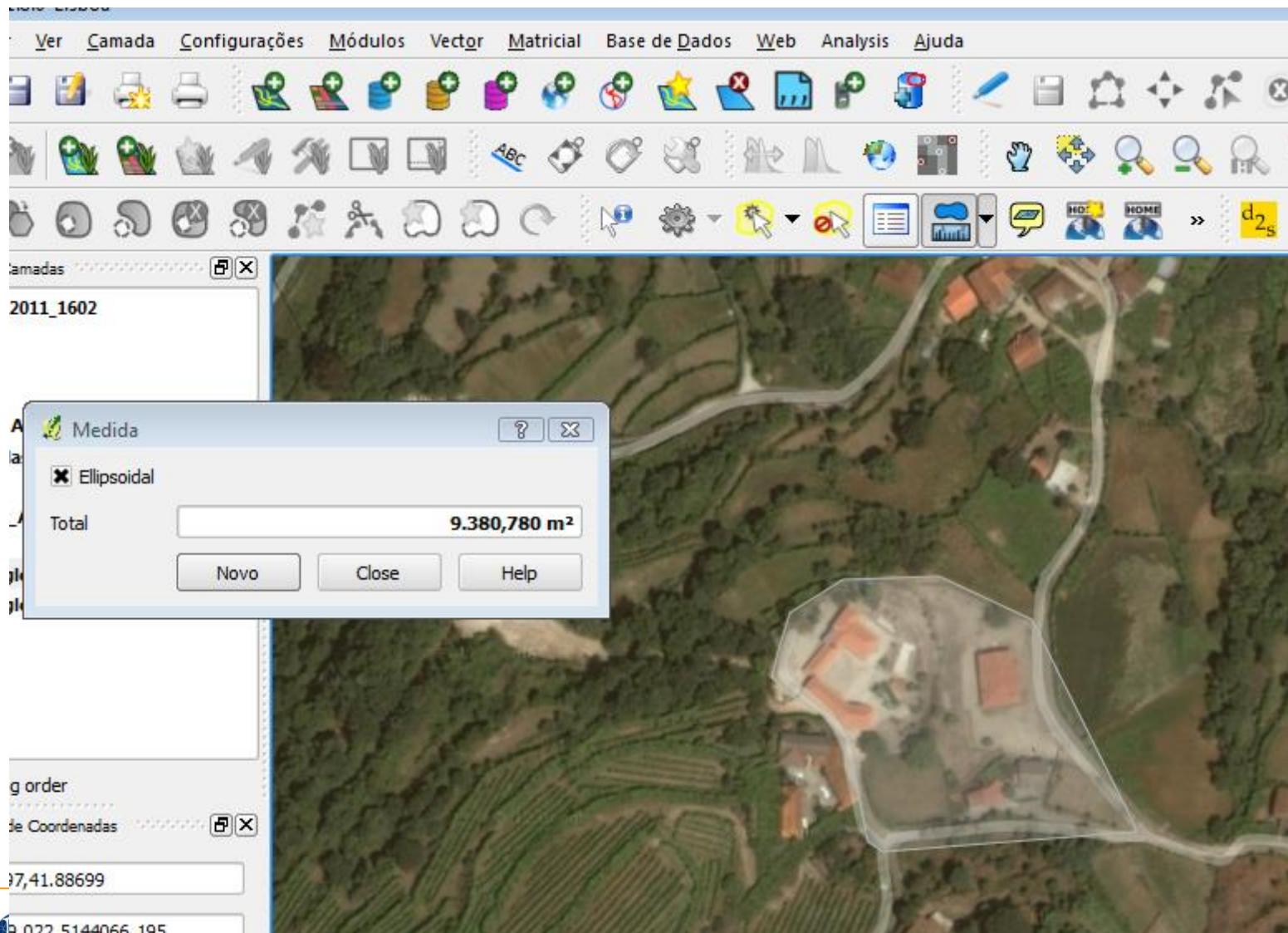


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Quantum GIS

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- Visualize-os no Quantum GIS:

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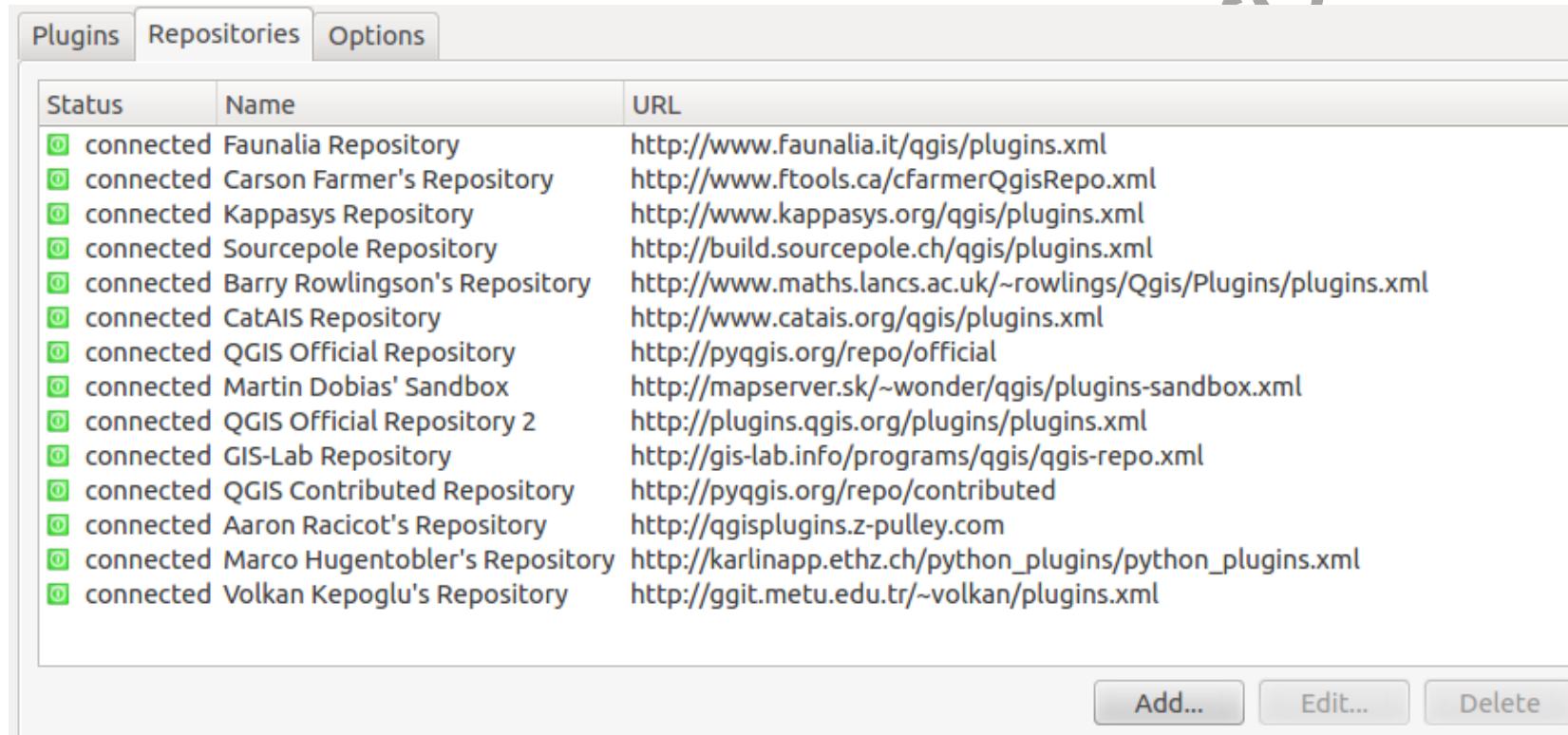
# Agenda

- **Visualize-os no Quantum GIS, usando o GoogleMaps:**
- Official Qgis Repository: <http://plugins.qgis.org/plugins/plugins.xml>
- <http://spatialgalaxy.net/2012/01/14/qgis-plugin-of-the-week-openlayers/>
- <http://pvanb.wordpress.com/2010/07/17/adding-google-openlayers-maps-to-your-desktop-gis/>
- <http://gis.stackexchange.com/questions/30132/how-to-install-openlayers-plugin-on-qgis-1-8>
- <http://qgisbrasil.wordpress.com/category/documentacao/tutoriais/>
- <http://planet.qgis.org/planet/tag/osm/>

Setup de Instalação do OpenLayers:

<http://www.qgis.org/downloads/QGIS-OSGeo4W-1.7.4-d211b16-Setup.exe>

## • Visualize-os no Quantum GIS: Openlayers Overview



The screenshot shows the 'Plugins' tab of the Quantum GIS application's configuration interface. It lists various software repositories that can be used to download additional functionality for QGIS. The columns are 'Status', 'Name', and 'URL'. Most repositories listed are currently connected.

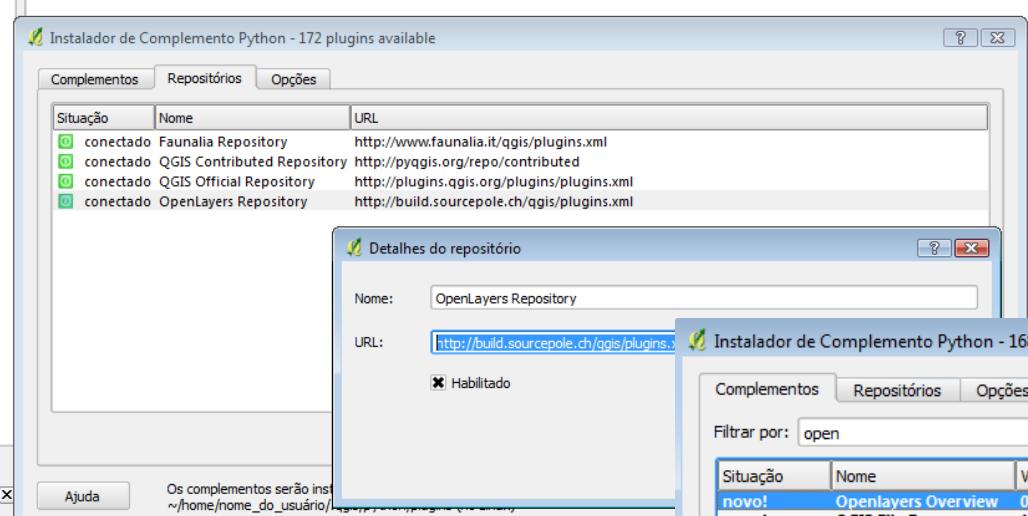
Status	Name	URL
connected	Faunalia Repository	<a href="http://www.faunalia.it/qgis/plugins.xml">http://www.faunalia.it/qgis/plugins.xml</a>
connected	Carson Farmer's Repository	<a href="http://www.ftools.ca/cfarmerQgisRepo.xml">http://www.ftools.ca/cfarmerQgisRepo.xml</a>
connected	Kappasys Repository	<a href="http://www.kappasys.org/qgis/plugins.xml">http://www.kappasys.org/qgis/plugins.xml</a>
connected	Sourcepole Repository	<a href="http://build.sourcepole.ch/qgis/plugins.xml">http://build.sourcepole.ch/qgis/plugins.xml</a>
connected	Barry Rowlingson's Repository	<a href="http://www.maths.lancs.ac.uk/~rowlings/Qgis/Plugins/plugins.xml">http://www.maths.lancs.ac.uk/~rowlings/Qgis/Plugins/plugins.xml</a>
connected	CatAIS Repository	<a href="http://www.catais.org/qgis/plugins.xml">http://www.catais.org/qgis/plugins.xml</a>
connected	QGIS Official Repository	<a href="http://pyqgis.org/repo/official">http://pyqgis.org/repo/official</a>
connected	Martin Dobias' Sandbox	<a href="http://mapserver.sk/~wonder/qgis/plugins-sandbox.xml">http://mapserver.sk/~wonder/qgis/plugins-sandbox.xml</a>
connected	QGIS Official Repository 2	<a href="http://plugins.qgis.org/plugins/plugins.xml">http://plugins.qgis.org/plugins/plugins.xml</a>
connected	GIS-Lab Repository	<a href="http://gis-lab.info/programs/qgis/qgis-repo.xml">http://gis-lab.info/programs/qgis/qgis-repo.xml</a>
connected	QGIS Contributed Repository	<a href="http://pyqgis.org/repo/contributed">http://pyqgis.org/repo/contributed</a>
connected	Aaron Racicot's Repository	<a href="http://qgisplugins.z-pulley.com">http://qgisplugins.z-pulley.com</a>
connected	Marco Hugentobler's Repository	<a href="http://karlinapp.ethz.ch/python_plugins/python_plugins.xml">http://karlinapp.ethz.ch/python_plugins/python_plugins.xml</a>
connected	Volkan Kepoglu's Repository	<a href="http://ggit.metu.edu.tr/~volkan/plugins.xml">http://ggit.metu.edu.tr/~volkan/plugins.xml</a>

Buttons at the bottom right of the dialog are 'Add...', 'Edit...', and 'Delete'.

- Visualize-os no Quantum GIS:

## Agenda

# Openlayers Overview



Introdução a

Control rendering order Openlayers Overview

Enable map Streets

Aveiro Figueira da Foz Coimbra Tomar Caldas da Rainha Portugal

POWERED BY Google Dados do mapa @2012 Tomas de Sant'ana

Ribeiro

Instalador de Complemento Python - 168 plugins available

Complementos Repositórios Opções

Filtrar por: open todos repositórios qualquer estado

Situação	Nome	Versão	Descrição
novo!	Openlayers Overview	0.1.7	Show area of map in browser with openlayers(google maps and others)
novo!	QGIS File Browser	1.2.2	A tree like file browser that allows opening any supported qgis format into the map canvas
não instalado	Item Browser	1.6.0	Browse a multiple selection with auto-zooming to feature and an option to open feature form
não instalado	XyTools	0.3.1	Tools for managing tabular data with x y columns. It can open spreadsheet files (Libre/OpenOffice, Excel, etc)
Instalado	OGR2Layers	0.8.8	A plugin to export OGR layers to OpenLayers HTML
Instalado	QuickWKT	1.8	Quick WKT/WKB viewer, this Qgis Plugin opens a dialog where the user can paste (E)WKT and WKB data
Instalado	OpenStreetMap plugin	0.5	Viewer and editor for OpenStreetMap data

Upgrade all

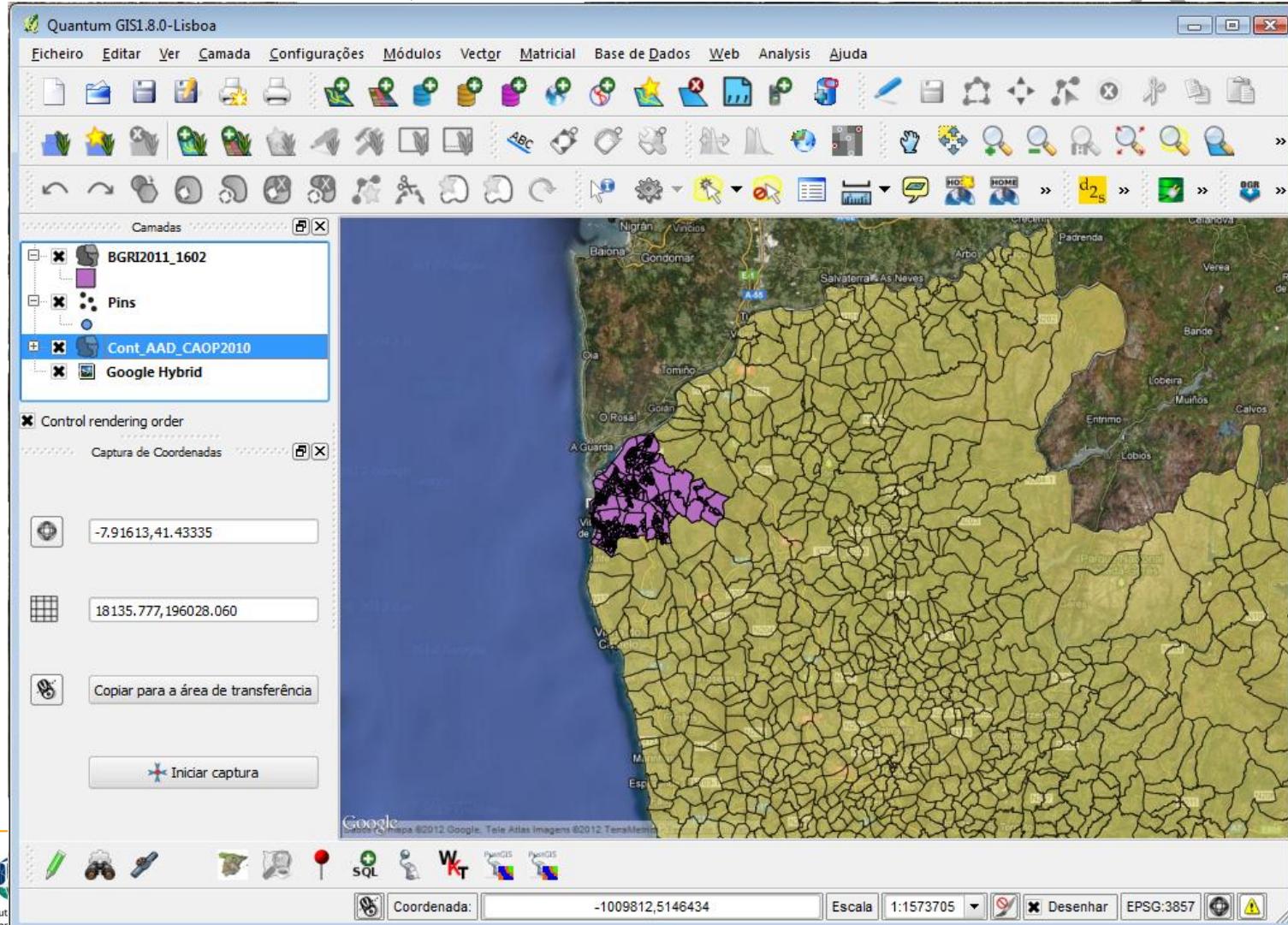
Instalar complemento Desinstalar complemento

Ajuda

Os complementos serão instalados em ~ /home / nome \_ do \_ usuário /.qgis/python/plugins (no Linux)

Fechar

- Visualize-os no Quantum GIS:



# Agenda

## • Visualize-os no Quantum GIS:

<http://build.sourcepole.ch/qgis/plugins.xml>

The screenshot shows the QGIS Python Plugin Installer interface. On the left, a main window lists four repositories: Faunalia Repository, QGIS Contributed Repository, QGIS Official Repository, and OpenLayers Repository. The OpenLayers Repository is selected. A detailed view window shows its name as "OpenLayers Repository" and URL as "http://build.sourcepole.ch/qgis/plugins.xml". The URL field is highlighted. On the right, a search results window displays a list of available plugins, filtered by "openlayer". The results include:

Situação	Nome	Versão	Descrição	Autor
novo!	Mapfile Tools	0.9	Load UMN Mapserver Mapfile as Layer	Sourcepole
novo!	Watermark Plugin	Version 1.0	Render watermark using QgsPluginLayer	Sourcepole
novo!	Profile export	0.21	A plugin to export raster profiles to xml files	Sourcepole
novo!	Openlayers Plugin	0.53	OpenStreetMap, Google Maps, Bing Maps layers and more	Sourcepole & Luiz Motta
Instalado	Openlayers Overview	0.1.7	Show area of map in browser with openlayers(google maps and others)	Luiz Motta
Instalado	OGR2Layers	0.8.8	A plugin to export OGR layers to OpenLayers HTML	lucadelu

At the bottom of the search results window, there are buttons for "Upgrade all", "Instalar complemento" (Install plugin), "Desinstalar complemento" (Uninstall plugin), "Ajuda" (Help), and "Fechar" (Close). A message at the bottom states: "Os complementos serão instalados em ~ /home / nome \_ do \_ usuário / .qgis / python / plugins (no Linux)".

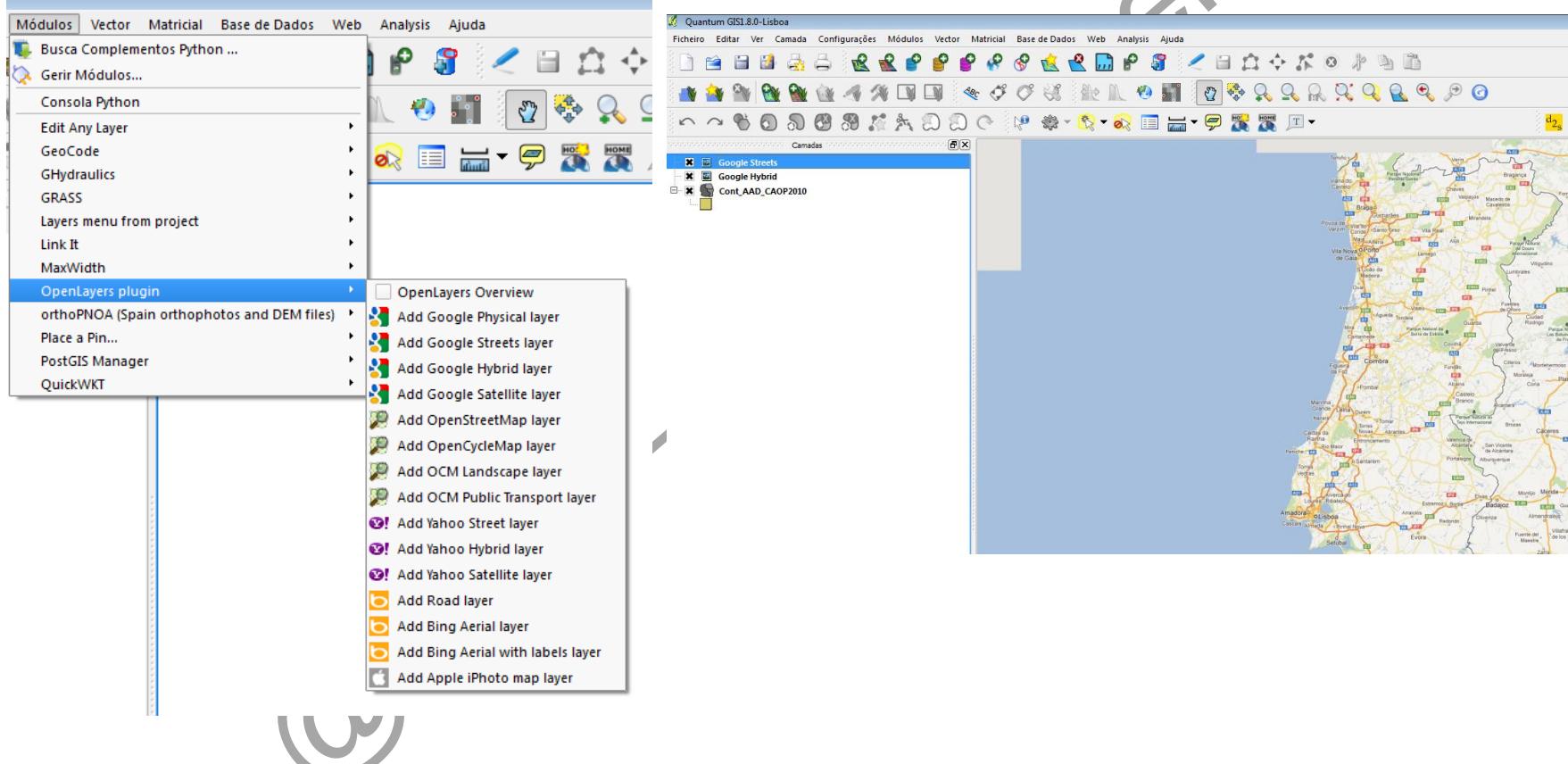
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**IPVC**  
Instituto Politécnico  
de Viana do Castelo

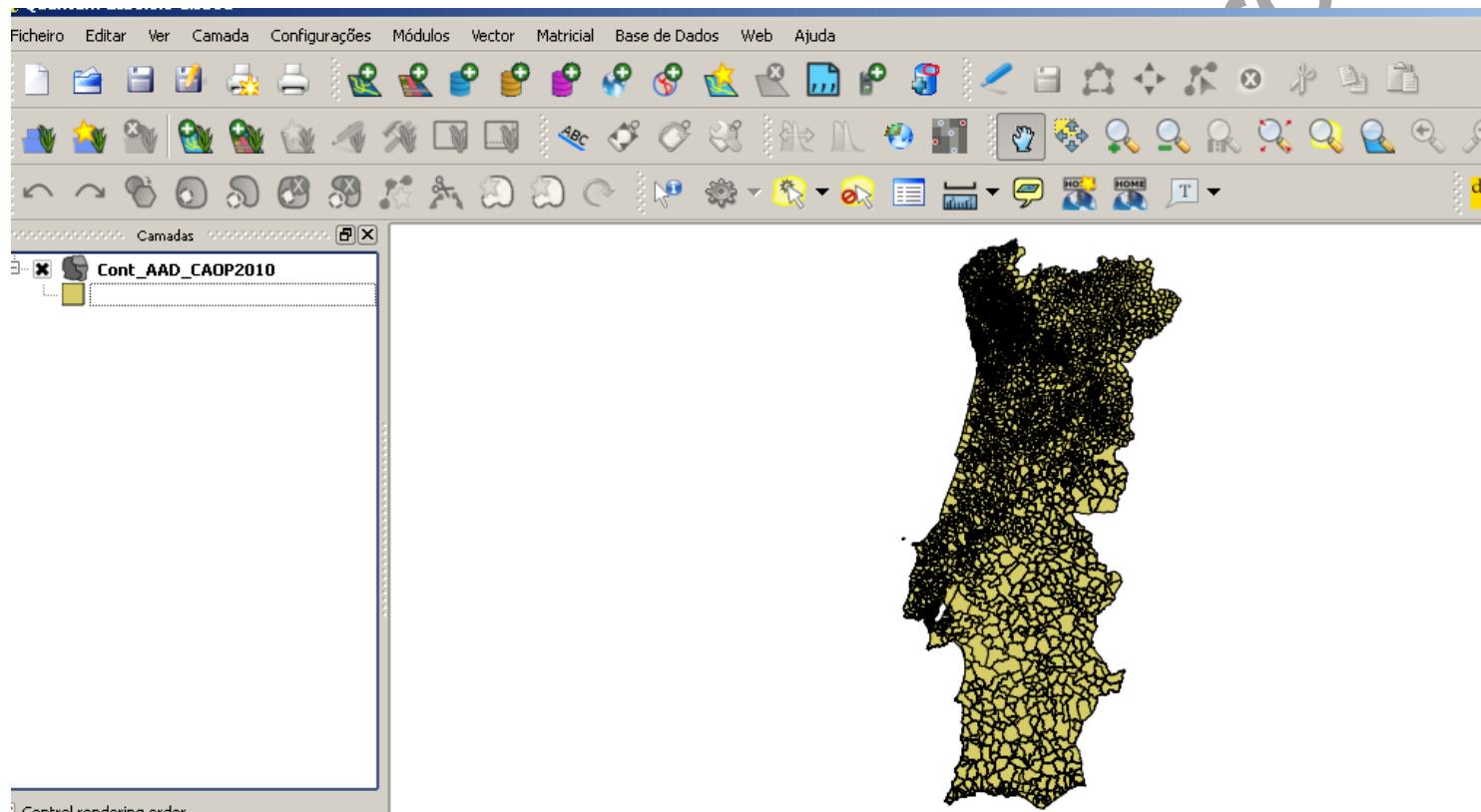
# Agenda

## • Visualize-os no Quantum GIS:

<http://build.sourcepole.ch/qgis/plugins.xml>

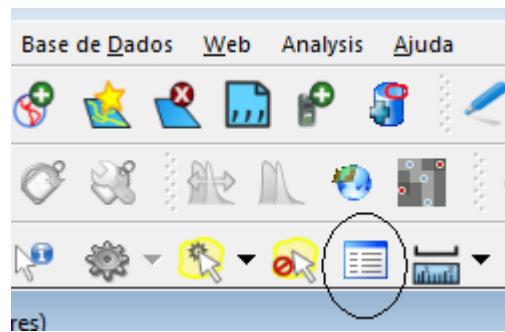


- Visualize-os no Quantum GIS:



# Agenda

- Visualize-os no Quantum GIS:



	Dicofre	Freguesia	Municipio	Distrito_	Area_EA_Ha	Area_T_Ha	TAA
161	150103	ALCÁCER DO S...	ALCÁCER DO S...	SETÚBAL	28682.16	28682.16	ÁREA PRINCIPAL
162	120702	ALCÁÇOVA	ELVAS	PORALEGRE	6.07	987.57	ÁREA PRINCIPAL
163	120702	ALCÁÇOVA	ELVAS	PORALEGRE	981.5	987.57	ÁREA SECUND...
164	071301	ALCÁÇOVAS	VIANA DO ALE...	ÉVORA	26800.47	26800.47	ÁREA PRINCIPAL
165	180602	ALCAFACHE	MANGUALDE	VISEU	1287.81	1287.81	ÁREA PRINCIPAL
166	050501	ALCAFOZES	IDANHA-A-NO...	CASTELO BRAN...	5681.88	5681.88	ÁREA PRINCIPAL
167	050401	ALCAIDE	FUNDÃO	CASTELO BRAN...	1671.51	1671.51	ÁREA PRINCIPAL
168	050201	ALCAINS	CASTELO BRAN...	CASTELO BRAN...	3694.47	3694.47	ÁREA PRINCIPAL
169	141604	ALCANEDE	SANTARÉM	SANTARÉM	10583.56	10583.56	ÁREA PRINCIPAL
170	140201	ALCANENA	ALCANENA	SANTARÉM	1035.86	1035.86	ÁREA PRINCIPAL
171	141605	ALCANHÕES	SANTARÉM	SANTARÉM	1145.38	1145.38	ÁREA PRINCIPAL
172	110602	ALCÂNTARA	LISBOA	LISBOA	443.76	443.76	ÁREA PRINCIPAL
173	081301	ALCANTARILHA	SILVES	FARO	2460.51	2460.51	ÁREA PRINCIPAL
174	141701	ALCARAVELA	SARDOAL	SANTARÉM	3677.44	3677.44	ÁREA PRINCIPAL
175	101601	ALCRIA	PORTO DE MÓS	LEIRIA	1309.32	1309.32	ÁREA PRINCIPAL
176	050402	ALCRIA	FUNDÃO	CASTELO BRAN...	2148.14	2148.14	ÁREA PRINCIPAL
177	020901	ALCRIA RUIVA	MERTOLA	BEJA	21666.87	21666.87	ÁREA PRINCIPAL
178	100101	ALCOBAÇA	ALCOBAÇA	LEIRIA	306.66	306.66	ÁREA PRINCIPAL
179	141401	ALCOBERTAS	RIO MAIOR	SANTARÉM	3203.01	3203.01	ÁREA PRINCIPAL
180	150201	ALCOCHETE	ALCOCHETE	SETÚBAL	11943.45	11943.45	ÁREA PRINCIPAL
181	110301	ALCOENTRE	AZAMBUJA	LISBOA	4705.33	4705.33	ÁREA PRINCIPAL
182	182401	ALCOFRA	VOUZELA	VISEU	2896.27	2896.27	ÁREA PRINCIPAL
183	050403	ALCONGOSTA	FUNDÃO	CASTELO BRAN...	731.05	731.05	ÁREA PRINCIPAL
184	141901	ALCOROCHEL	TORRES NOVAS	SANTARÉM	859.22	859.22	ÁREA PRINCIPAL

# Agenda

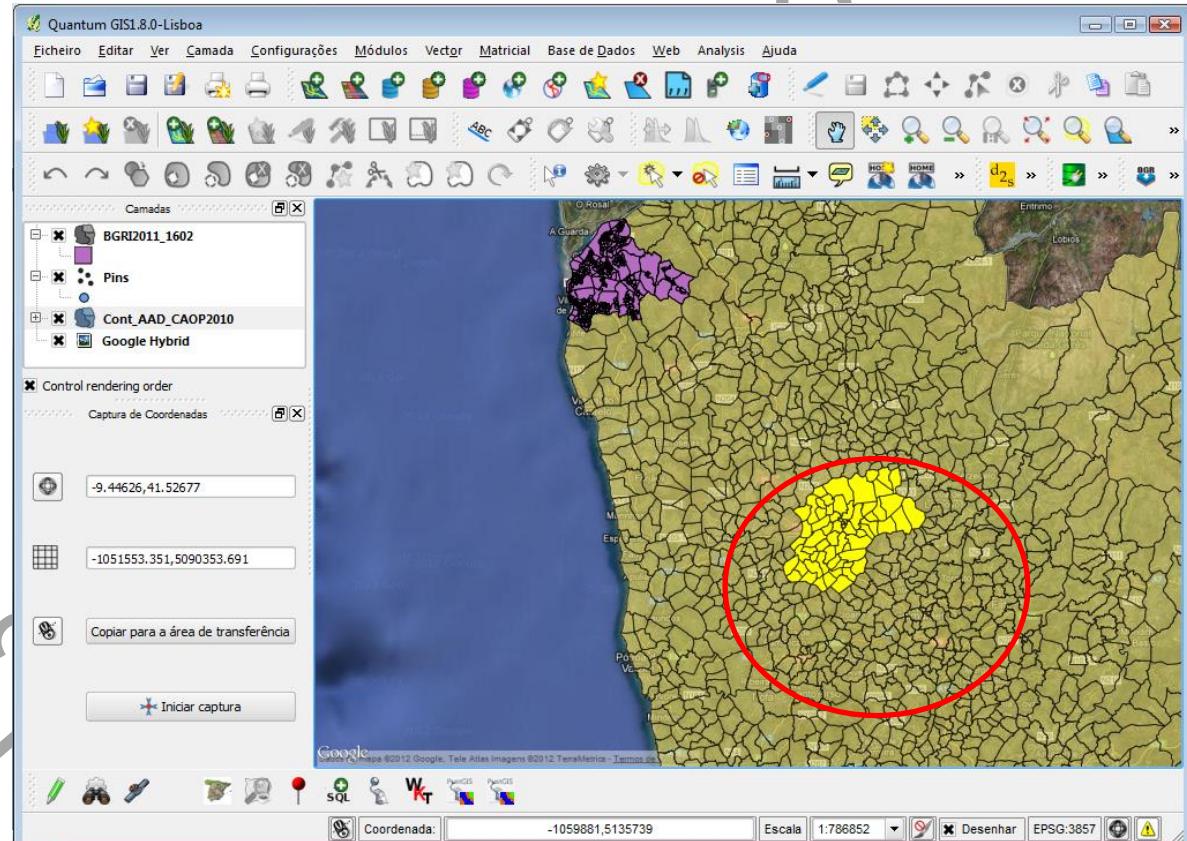
- Visualize-os no Quantum GIS:

10 (111 matching features)

	Municipio	Distrito_	Area_EA_Ha	Area_T_Ha	TAA
S...	ALCÁCER DO S...	SETÚBAL	28682.16	28682.16	ÁREA PRINCIPAL
ELVAS	PORTELALEGRE		6.07	987.57	ÁREA PRINCIPAL
ELVAS	PORTELALEGRE		981.5	987.57	ÁREA SECUND...
VIANA DO ALE...	ÉVORA		26800.47	26800.47	ÁREA PRINCIPAL
MANGUALDE	VISEU		1287.81	1287.81	ÁREA PRINCIPAL
IDANHA-A-NO...	CASTELO BRAN...		5681.88	5681.88	ÁREA PRINCIPAL
FUNDÃO	CASTELO BRAN...		1671.51	1671.51	ÁREA PRINCIPAL
CASTELO BRAN...	CASTELO BRAN...		3694.47	3694.47	ÁREA PRINCIPAL
SANTARÉM	SANTARÉM		10583.56	10583.56	ÁREA PRINCIPAL
ALCANETRA	SANTARÉM		1035.86	1035.86	ÁREA PRINCIPAL
SANTARÉM	SANTARÉM		1145.38	1145.38	ÁREA PRINCIPAL
LISBOA	LISBOA		443.76	443.76	ÁREA PRINCIPAL
HA SILVES	FARO		2460.51	2460.51	ÁREA PRINCIPAL
SARDOAL	SANTARÉM		3677.44	3677.44	ÁREA PRINCIPAL
PORTO DE MÓS	LEIRIA		1309.32	1309.32	ÁREA PRINCIPAL
FUNDÃO	CASTELO BRAN...		2148.14	2148.14	ÁREA PRINCIPAL
VA MÉRTOLA	BEJA		21666.87	21666.87	ÁREA PRINCIPAL
ALCOBAÇA	LEIRIA		306.66	306.66	ÁREA PRINCIPAL
RIO MAIOR	SANTARÉM		3203.01	3203.01	ÁREA PRINCIPAL
ALCOCHETE	SETÚBAL		11943.45	11943.45	ÁREA PRINCIPAL
AZAMBUJA	LISBOA		4705.33	4705.33	ÁREA PRINCIPAL
VOUZELA	VISEU		2896.27	2896.27	ÁREA PRINCIPAL
A FUNDÃO	CASTELO BRAN...		731.05	731.05	ÁREA PRINCIPAL
L TORRES NOVAS	SANTARÉM		859.22	859.22	ÁREA PRINCIPAL

Buscar por: BRAGA em: Municipio Buscar

actere Busca avançada ? Fechar



# Agenda

- Aceda ao site do **Instituto Nacional de Estatística** e faça o download dos mapas dos concelhos, distritos e freguesias e **Visualize-os no Quantum GIS**:

The screenshot shows a web browser window with the URL [mapas.ine.pt/download/index2011.phtml](http://mapas.ine.pt/download/index2011.phtml). The page title is "CENSOS". The main content area displays a tree view of geographical data for Portugal, categorized by region (Norte, Centro, Alentejo, Madeira, Açores) and district (e.g., Minho-Lima, Grande Porto, Tâmega). A sidebar on the left provides information about the data, including population statistics and family units.

<http://mapas.ine.pt/download/index2011.phtml>

# Agenda

The screenshot shows the homepage of the Instituto Nacional de Estatística (INE) website. The main navigation bar includes links for 'O INE', 'Serviços disponíveis', 'Eventos', 'Mapa do Portal', and 'Ajuda'. On the left, there is a vertical sidebar with several menu items under 'Informação Estatística', 'Censos 2011', and 'WebInq - Inquéritos'. The 'Informação geográfica' menu item is highlighted with a red circle. To its right, there is a section titled 'Destques' (Highlights) featuring news articles. Below this, there is another section titled 'Em foco' (In focus) with a single article. At the bottom of the sidebar, there is an 'E-mail' input field and a download link for 'BGRI2011\_1602.zip'.

ional de Estatística e faça o download dos freguesias e **Visualize-os no Quantum GIS**:

Quantum GIS

# Agenda

- Aceda ao site do **Instituto Nacional de Estatística** e faça o download dos mapas dos concelhos, distritos e freguesias e **Visualize-os no Quantum GIS**:



# Agenda

- Aceda ao site do **Instituto Nacional de Estatística** e faça o download dos mapas dos concelhos, distritos e freguesias e **Visualize-os no Quantum GIS**:

The screenshot shows a web browser window with the URL [mapas.ine.pt/download/index2011.phtml](http://mapas.ine.pt/download/index2011.phtml). The page is titled "CENSOS" and features the INSTITUTO NACIONAL DE ESTATÍSTICA logo. The main content area is titled "Censos 2011 - Importação dos principais dados alfanuméricos e geográficos (BGR)". On the left, there's a sidebar with "Período de referência dos dados" (1991, 2001) and a list of data types: População residente, População presente, Famílias, Alojamentos, and Edifícios. The right side shows a hierarchical tree view of "Área Geográfica" data, starting with Portugal, then subdividing into Continente, Norte, Minho-Lima, Arcos de Valdevez, Melgaço, Monção, Paredes de Coura, Ponte da Barca, Ponte de Lima, Valença, Viana do Castelo, Vila Nova de Cerveira, Cávado, Ave, Grande Porto, Tâmega, Entre Douro e Vouga, Douro, Alto Trás-os-Montes, Centro, and Lisboa. Each item has a file size listed in parentheses.