

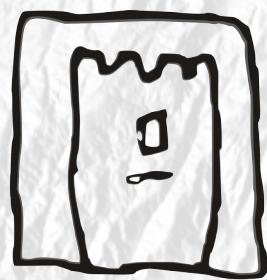


# **2º Encontro de Utilizadores QGIS Portugal**

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## **QGIS no Município de Pinhel**

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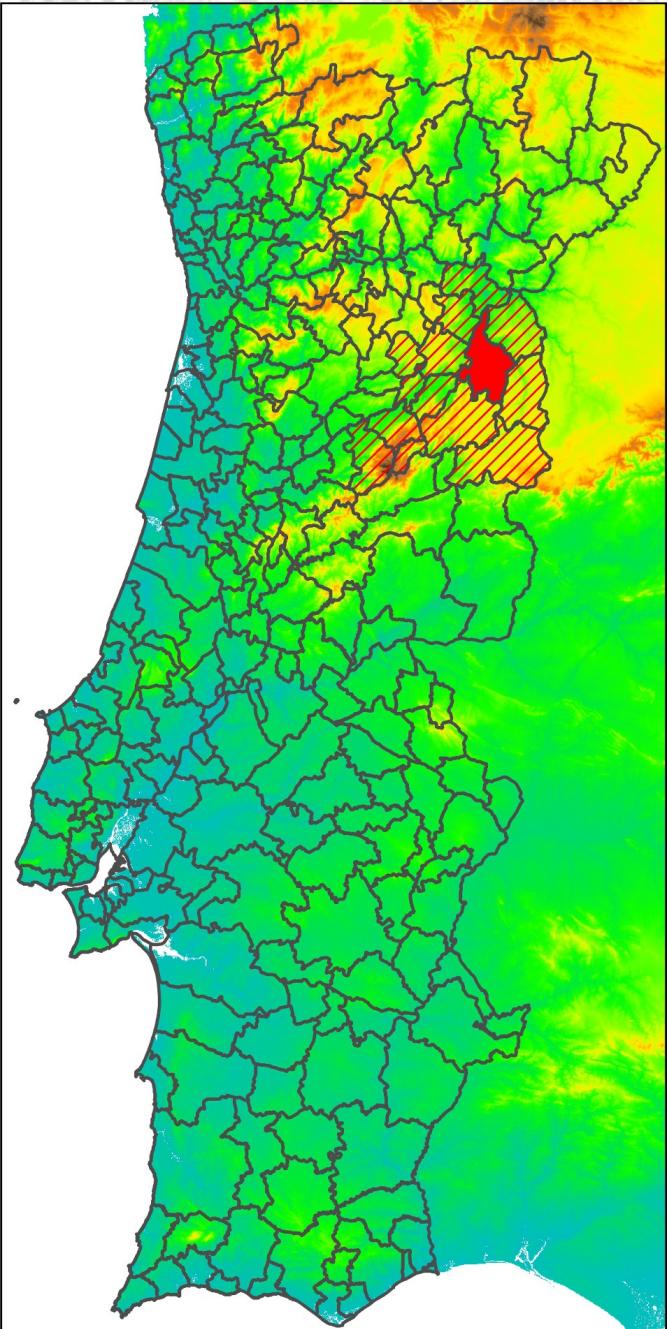
Município de  
PINHEL



**Pedro Venâncio**

**Coimbra, 2 de Junho de 2014**

# Concelho de Pinhel



- Distrito da Guarda
- Área: 484,52 Km<sup>2</sup>
- População: 9627 (2011)
- Freguesias: 18 (2013)

# Infraestrutura de Dados Espaciais

Servidor

Dados

Mapas

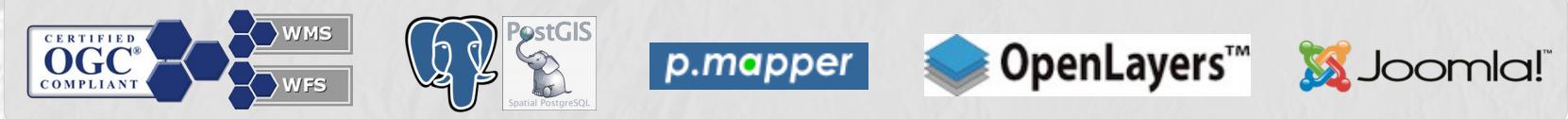
Web

Serviços

Clientes

~ 70 GB  
Imagens Raster

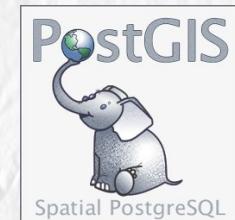
~ 800 layers  
PostGIS



# **Infraestrutura de Dados Espaciais**

# QGIS na Infraestrutura de Dados Espaciais

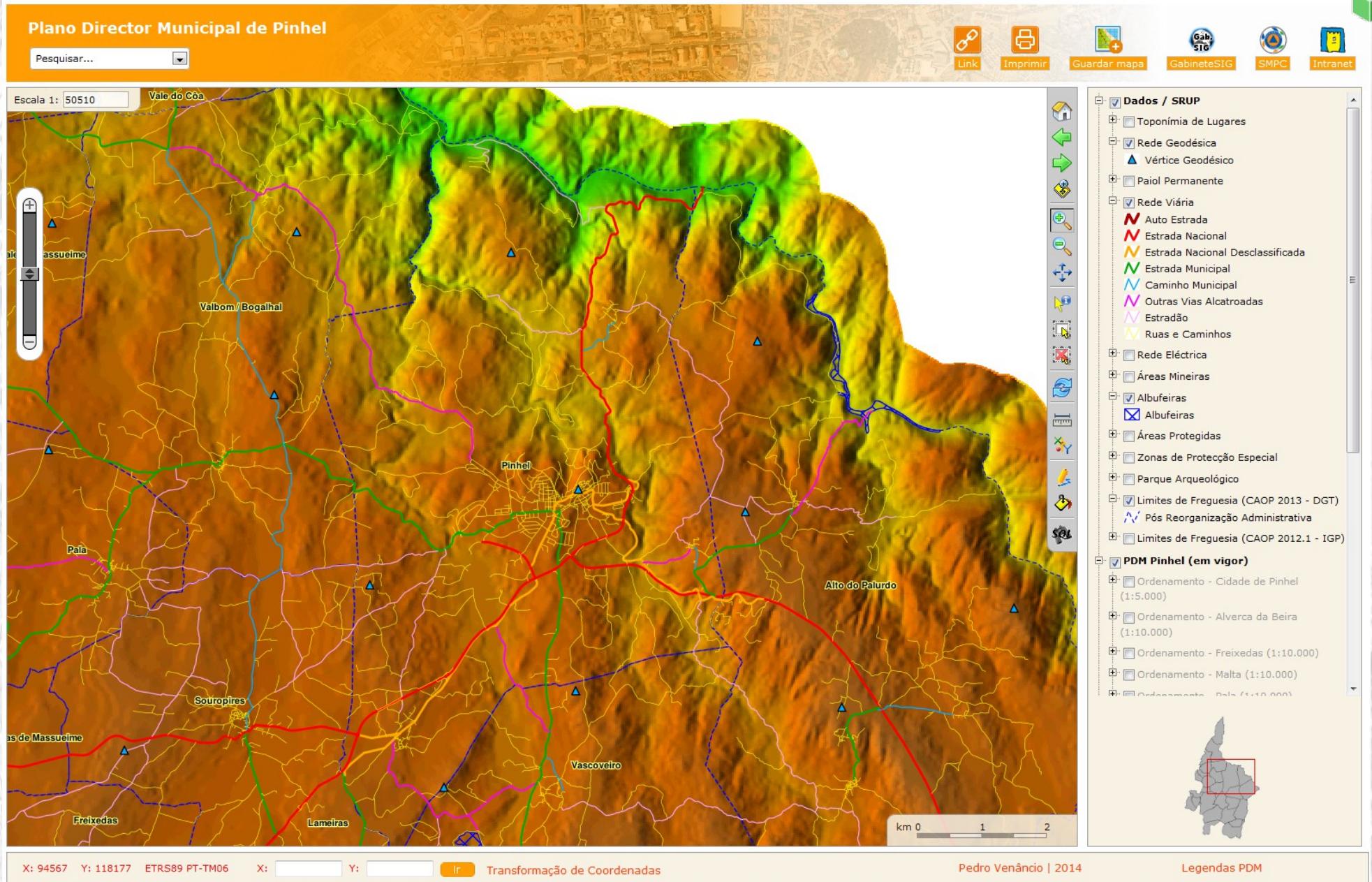
- Interface para PostGIS (DB Manager):
  - Criação de Esquemas, Tabelas, Campos, Restrições, etc.;
  - Importação de layers (shapefiles/spatialite) para o PostGIS;
  - Carregamento de layers (vector/raster) para o canvas do QGIS;
  - Execução consultas SQL;
  - Visualização rápida dos resultados das consultas;
  - Armazenamento dos resultados das consultas no PostGIS;
  - Edição de dados;
  - Análise espacial;
  - Exportação de layers PostGIS para outros formatos (vector/raster);
  - Versionamento (*versioning*) de tabelas;
  - Tarefas de administração (Índices, Vacuum Analyse).



# QGIS



# QGIS / MapServer



# QGIS / MapServer

**Plano Municipal de Emergência de Protecção Civil de Pinhel**

Pesquisar...

Escala 1: 50000

Link Imprimir Guardar mapa GabineteSIG SMPC Intranet

km 0 1 2

X: 89516 Y: 117954 ETRS89 PT-TM06 X: Y: Transformação de Coordenadas

Dados  
Toponímia de Lugares  
Rede Viária  
Limites de Freguesia (CAOP 2013 - DGT)  
Pós Reorganização Administrativa  
Limites de Freguesia (CAOP 2012.1 - IGP)

Infraestruturas  
Agentes  
Agents de Protecção Civil  
Combustíveis  
Posto de Abastecimento  
Armazenamento de Produtos Inflamáveis  
Estabelecimentos de Ensino  
Estabelecimento de Ensino  
Respostas Sociais  
Equipamentos Desportivos  
Equipamento Desportivo  
Serviços  
Serviço Público  
Cultura  
Mercado  
Farmácia  
Turismo  
Religião  
Outro  
Áreas Mineiras  
Antigas Áreas Mineiras  
Pedreiras  
Activa  
Inactiva  
Aproveitamentos Hidroeléctricos  
Equipamento

Pedro Venâncio | 2014

# QGIS / GeoTagging



QGIS 2.2.0-Valmiera - gouveias

Project Edit View Layer Settings Plugins Vector Raster Database Web MMQGIS Processing Help

Layers

gouveias\_3763

mosaico\_rgbi\_2010

Visualizador de imagens - IMG\_20140409\_143937.jpg [12/92]

Ficheiro Editar Ver Ir Ajuda

Attributes - gouveias\_3763

filename	IMG_20140409_143544.jpg
longitude	-7.163963800000000
latitude	40.65697099999999
altitude	821.09900000000046
north	M
direction	308.00000000000000
gps_date	2014/04/09 13:35:44
img_date	NULL

Coordinate: 81697.5, 110359.3

Cancel

# QGIS / GeoTagging



QGIS 2.2.0-Valmiera - Pontes

Project Edit View Layer Settings Plugins Vector Raster Database Web MMQGIS Processing Help

Layers

pontes

mosaico\_rgbi\_2010

Visualizador de imagens - IMG\_20140213\_145456.jpg [89/169]

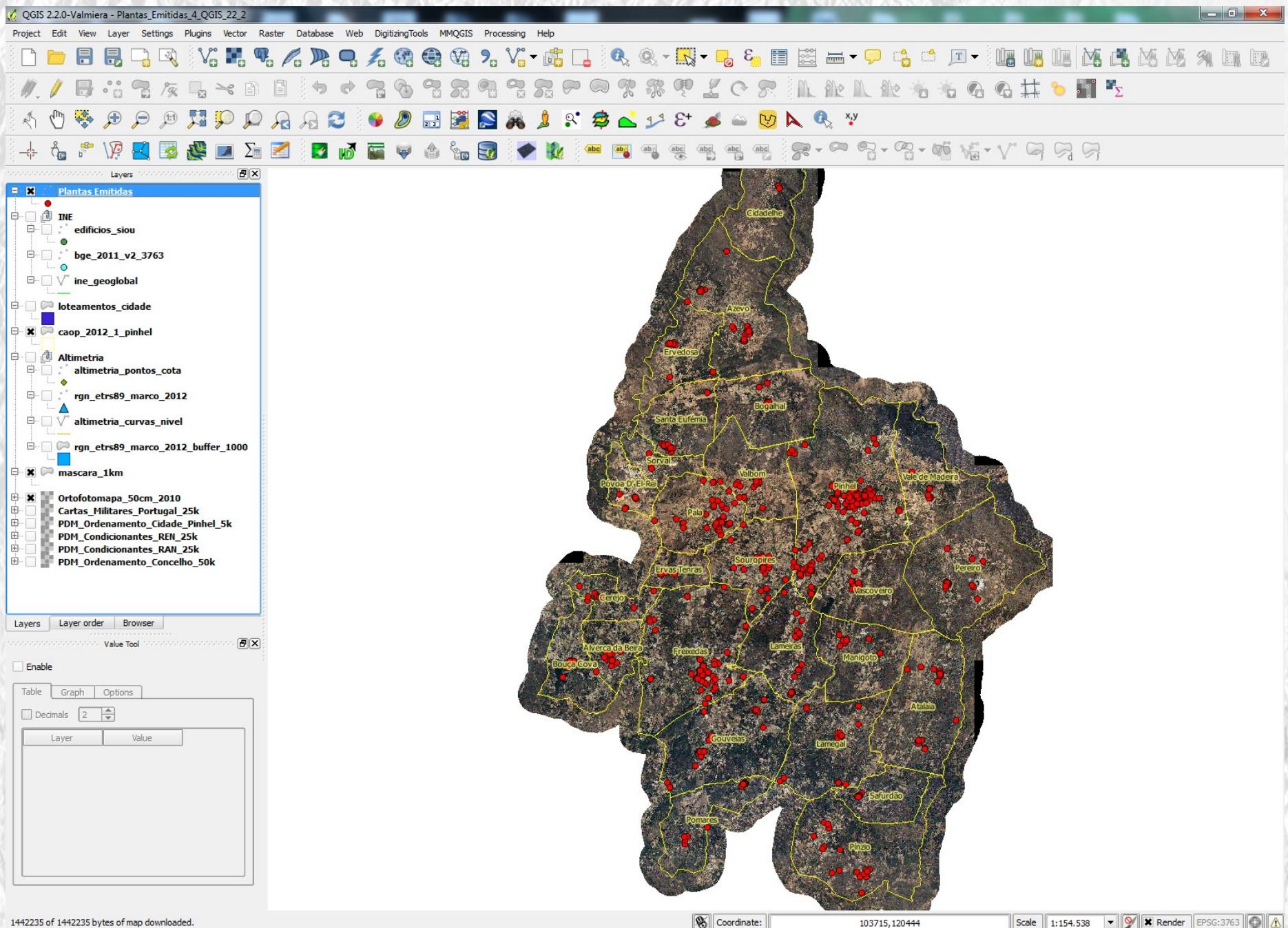
Ficheiro Editar Ver Ir Ajuda

IMG\_20140213\_145456.jpg f/2,6 1/120 seg. 3264 x 2448 24,5%

Coordinate: 91514.1,124110.8 Scale 1:846 Render EPSG:3763

The screenshot shows the QGIS interface. The main canvas displays a satellite map of a bridge over a river, with several red arrows pointing to specific features on the bridge. To the left of the main canvas is a photo viewer window titled "Visualizador de imagens - IMG\_20140213\_145456.jpg [89/169]". This window shows a photograph of a stone arch bridge with ivy growing on it, spanning a river. The QGIS toolbar and various layers are visible at the top and left of the interface.

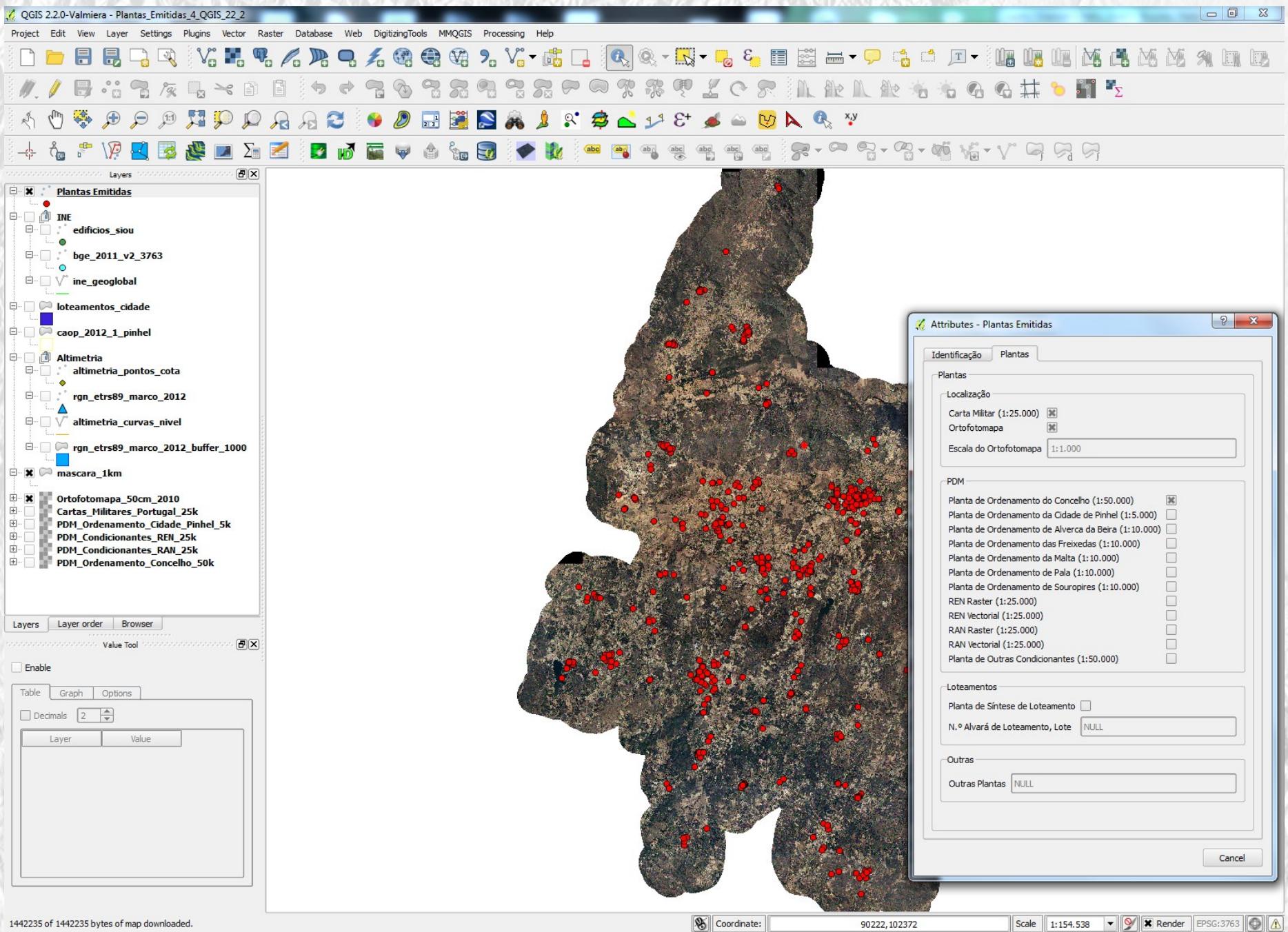
# Plantas de Localização



1442235 of 1442235 bytes of map downloaded.

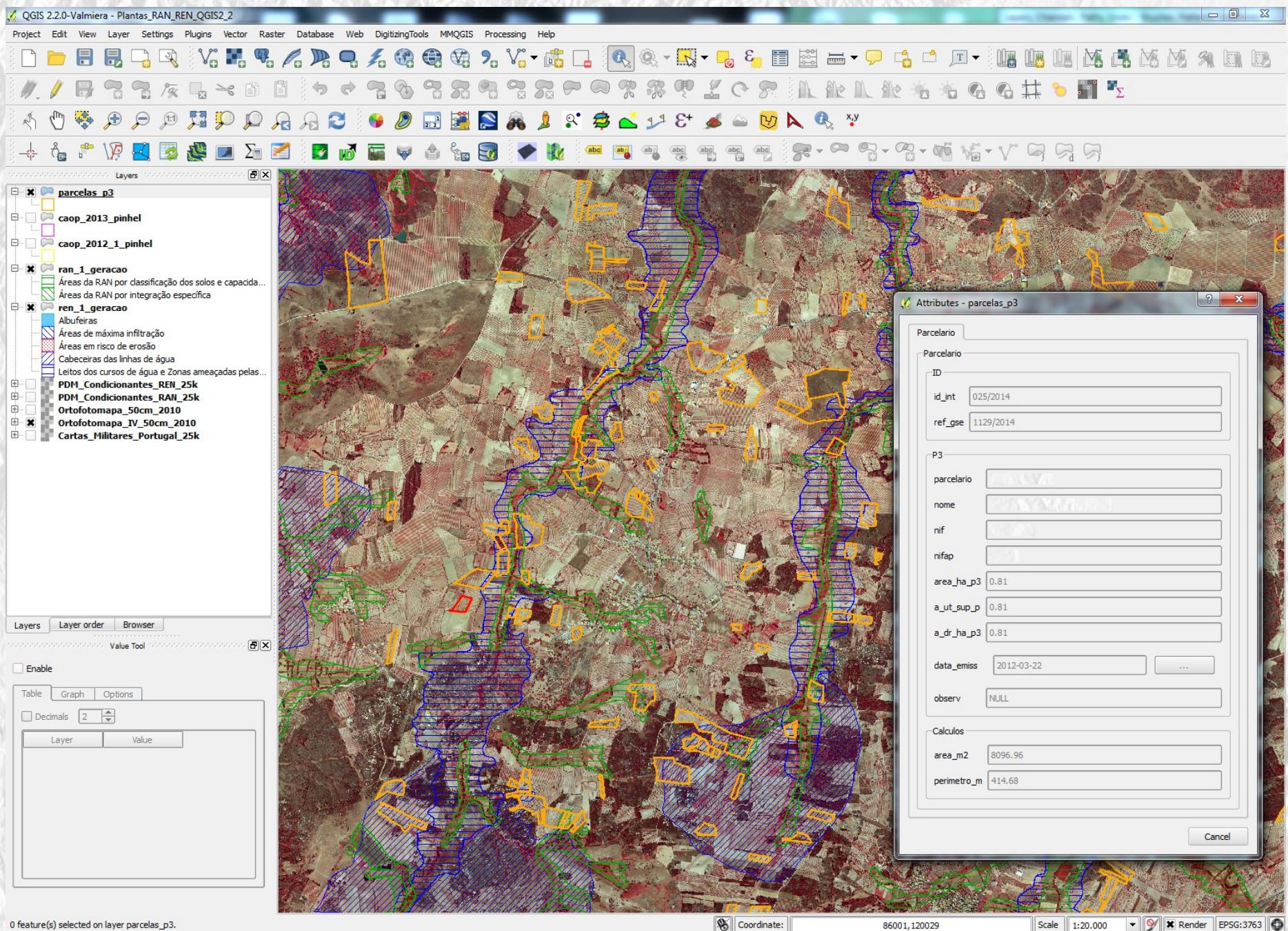
Coordinate: 103715,120444 Scale: 1:154.538 Render EPSG:3763

# Plantas de Localização

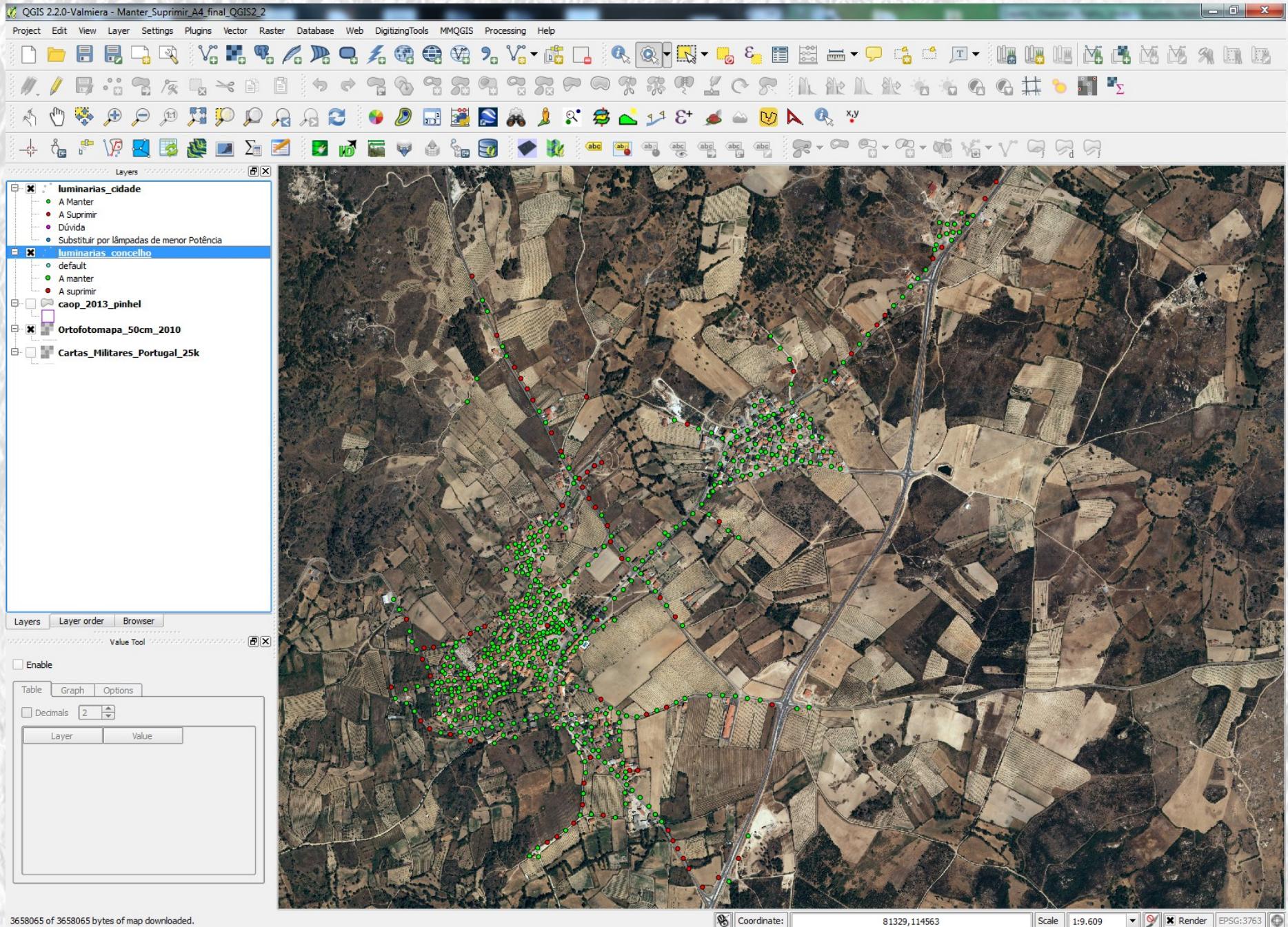


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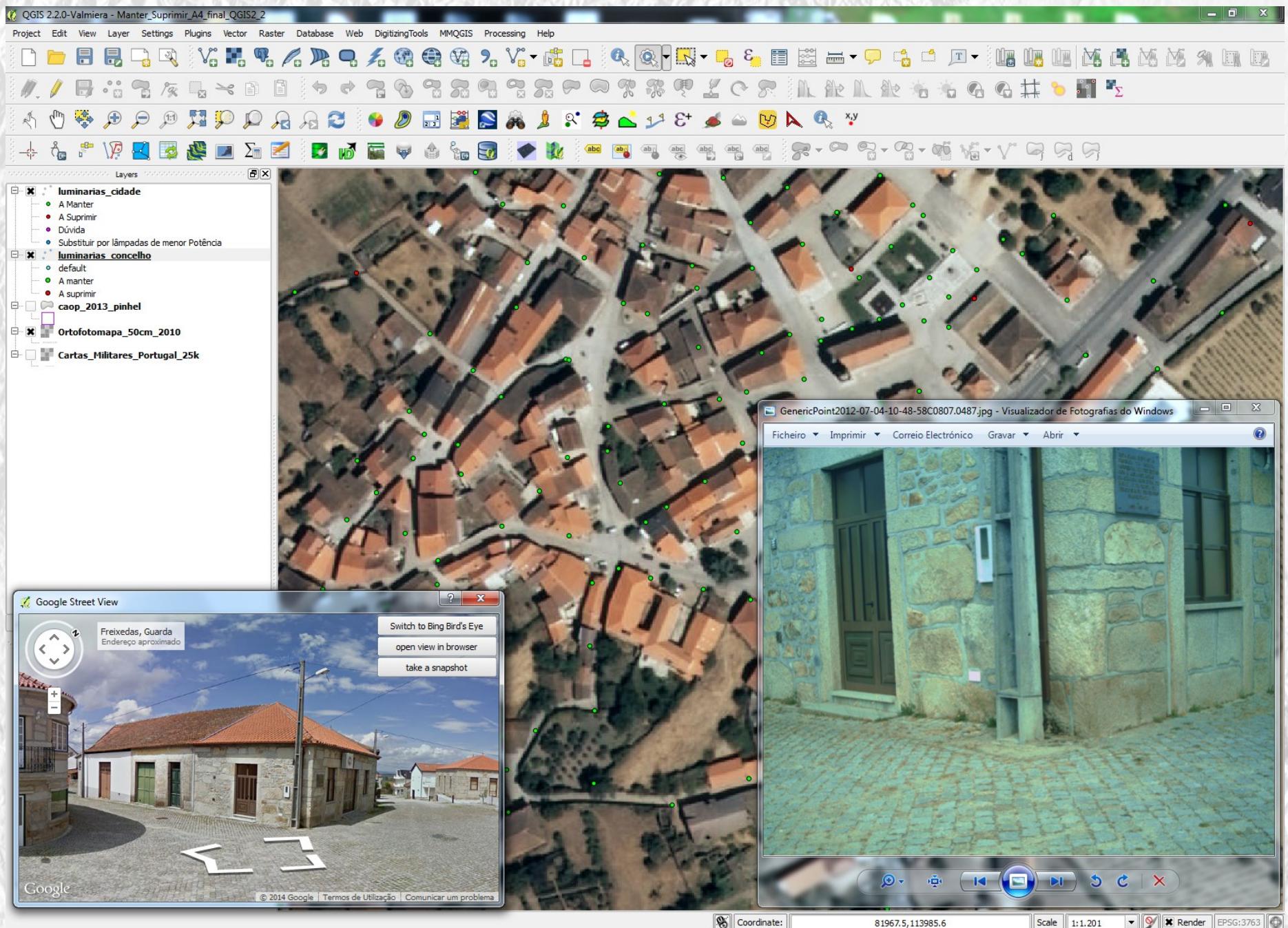
# Enquadramento em Áreas de RAN / REN



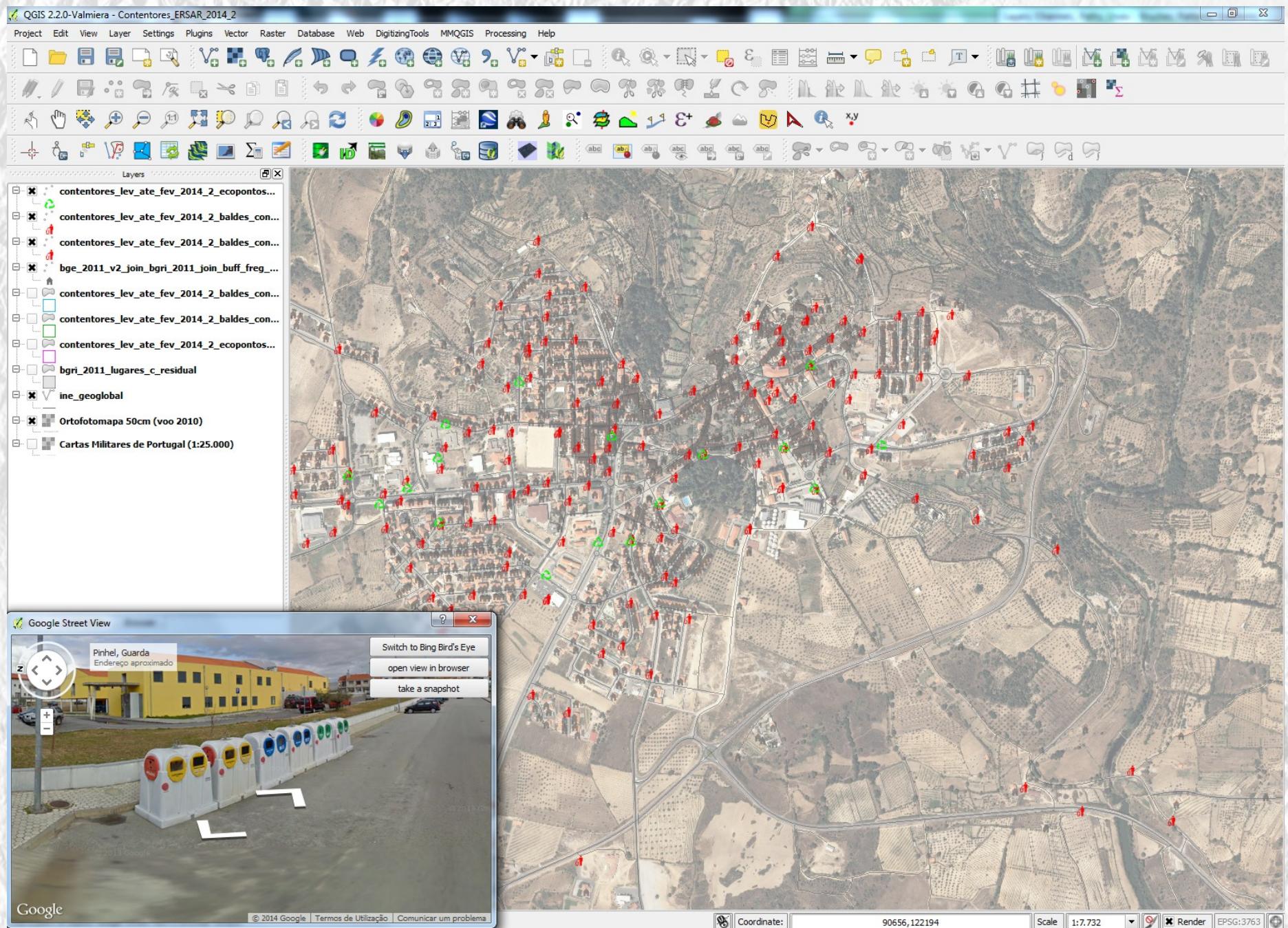
# Cadastro da Iluminação Pública



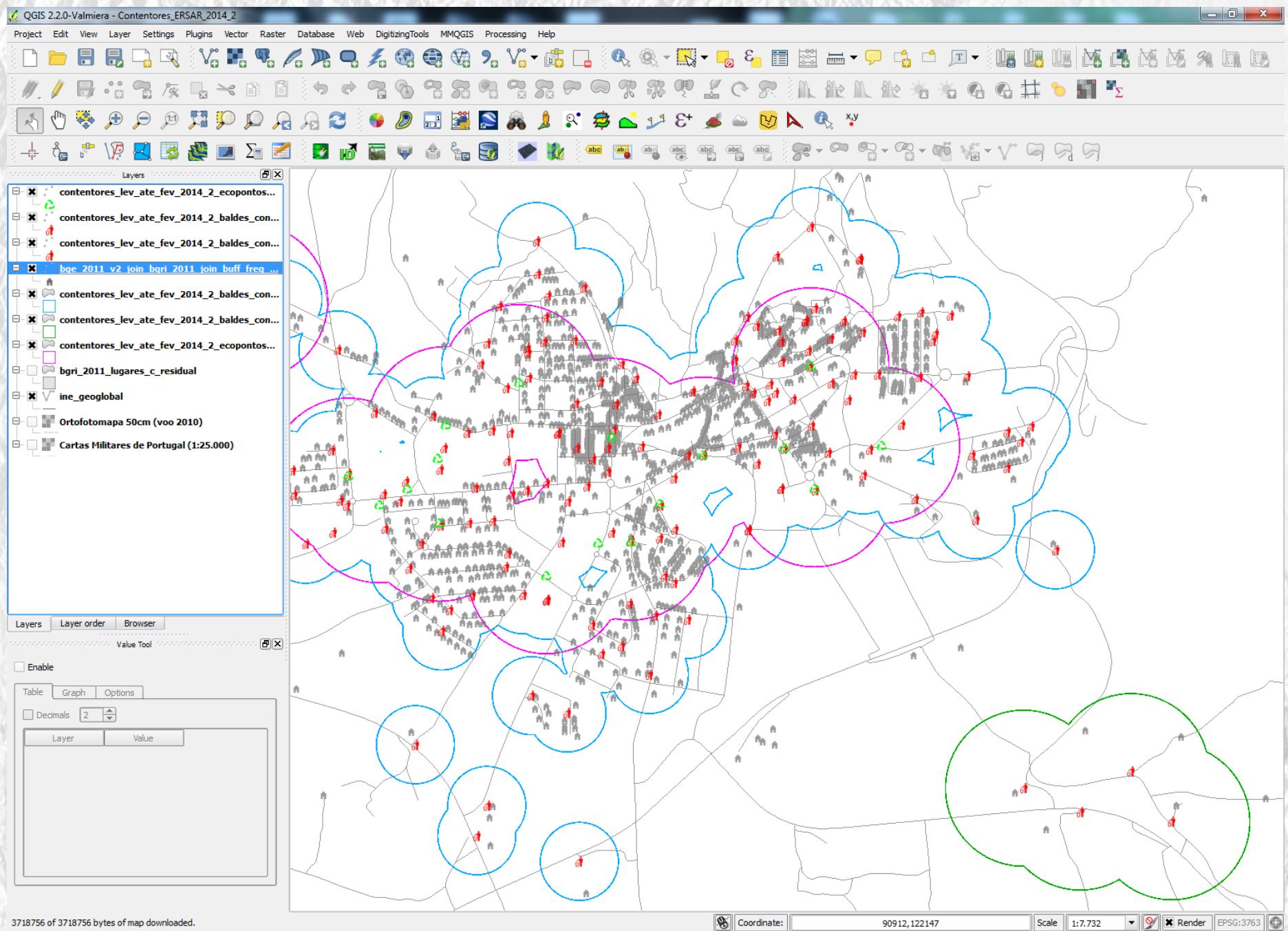
# Cadastro da Iluminação Pública



# Cadastro RSU / ERSAR

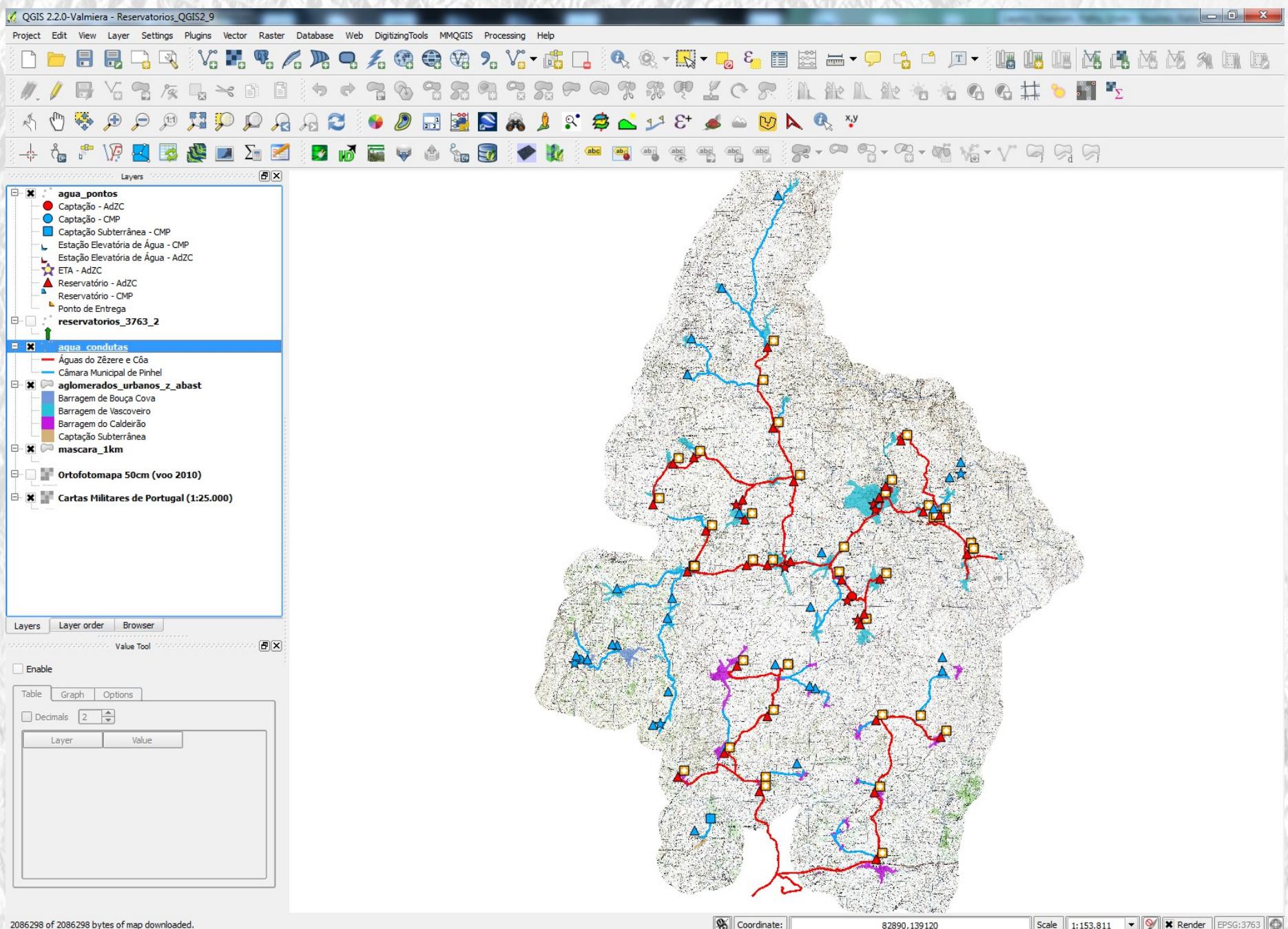


# Cadastro RSU / ERSAR



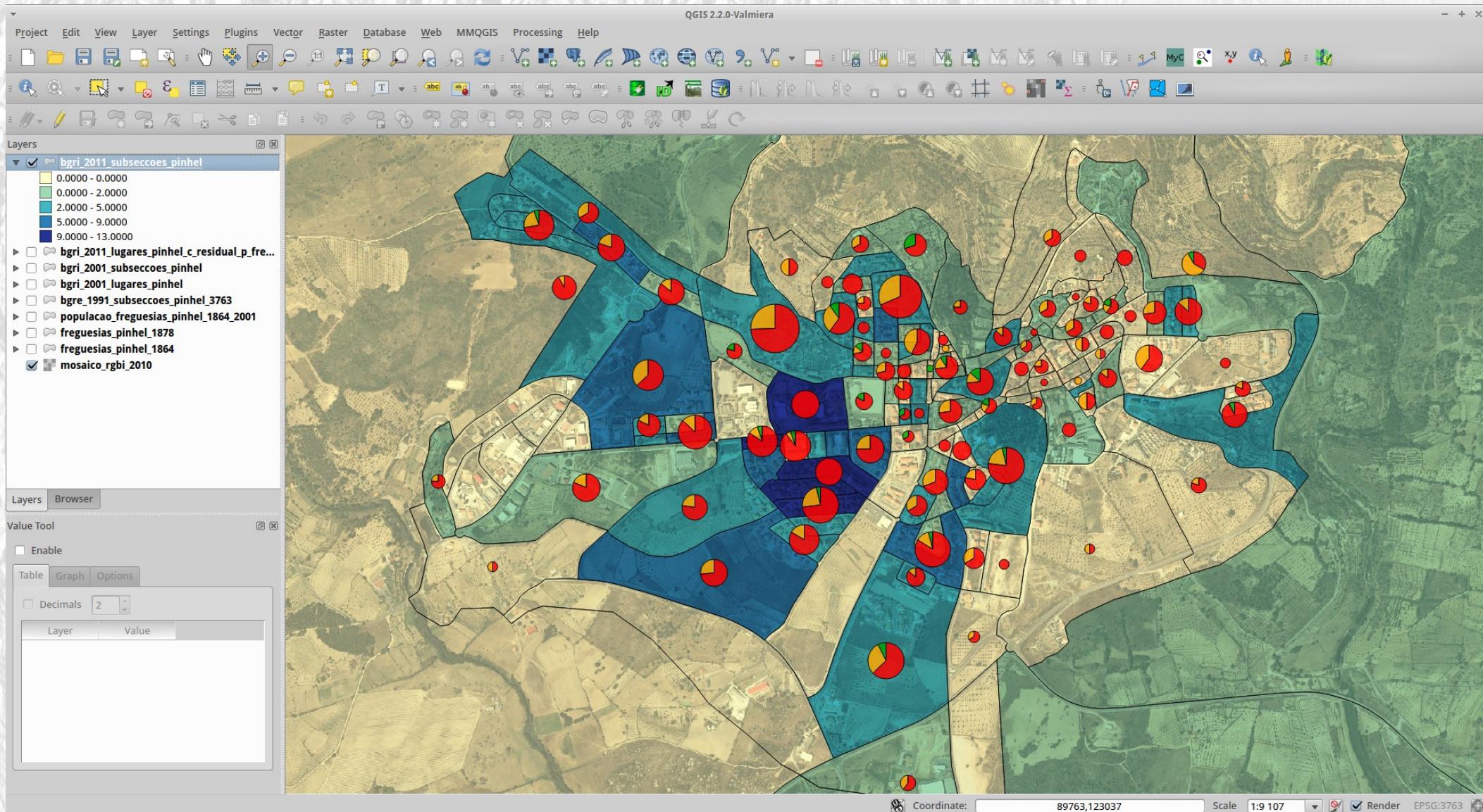
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# Cadastro de Infraestruturas de Água e Saneamento

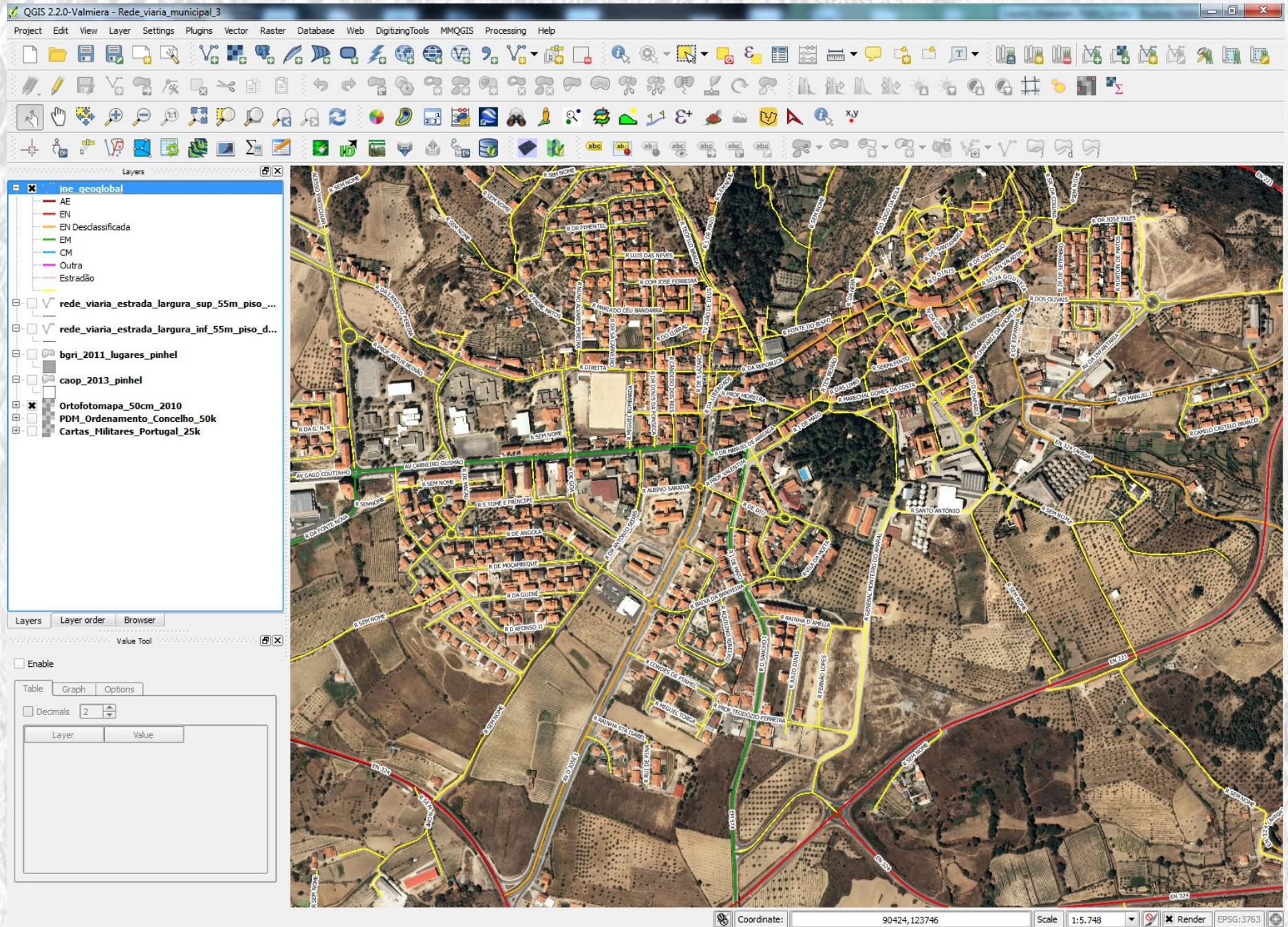


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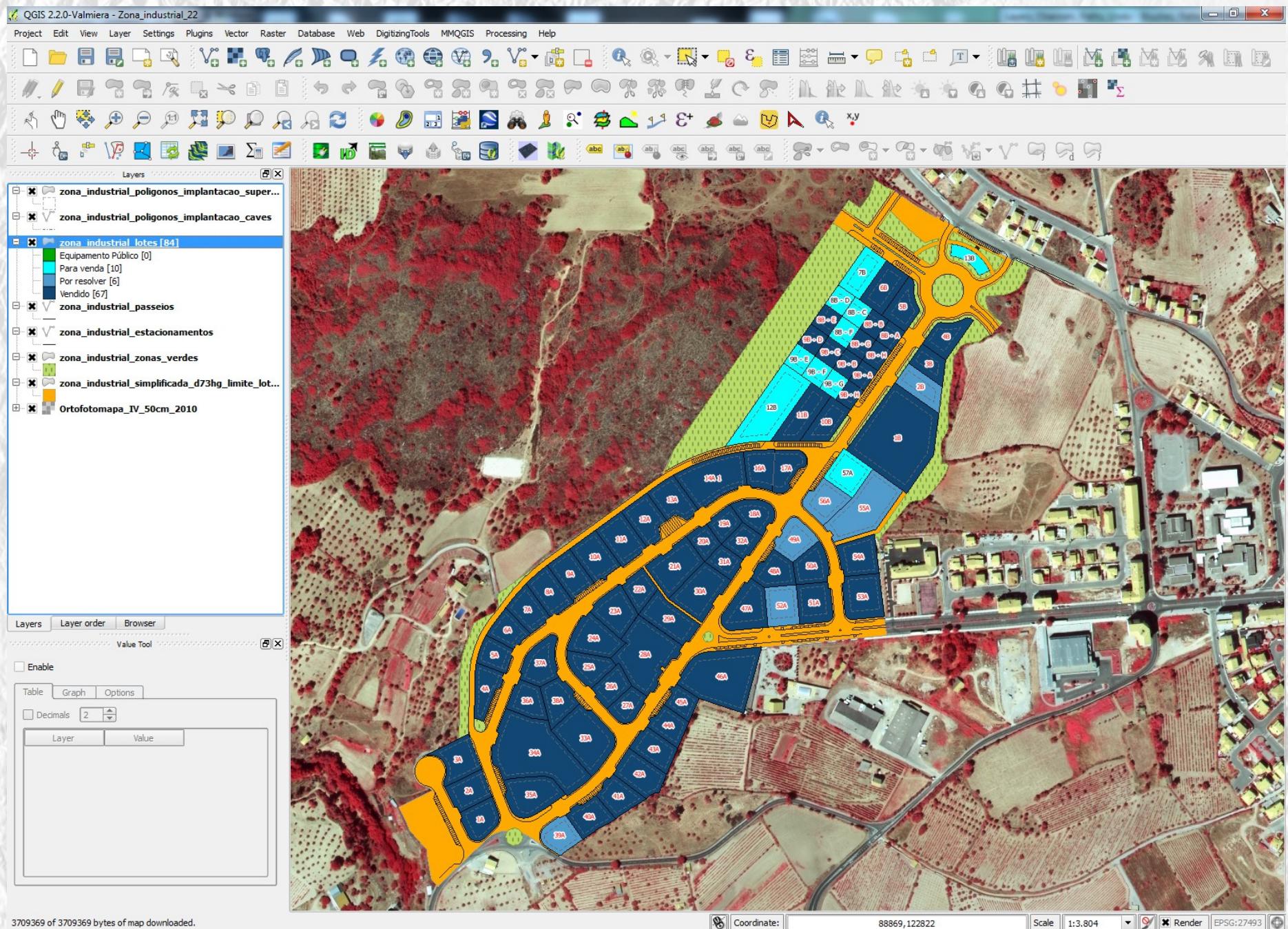
# Informação Estatística



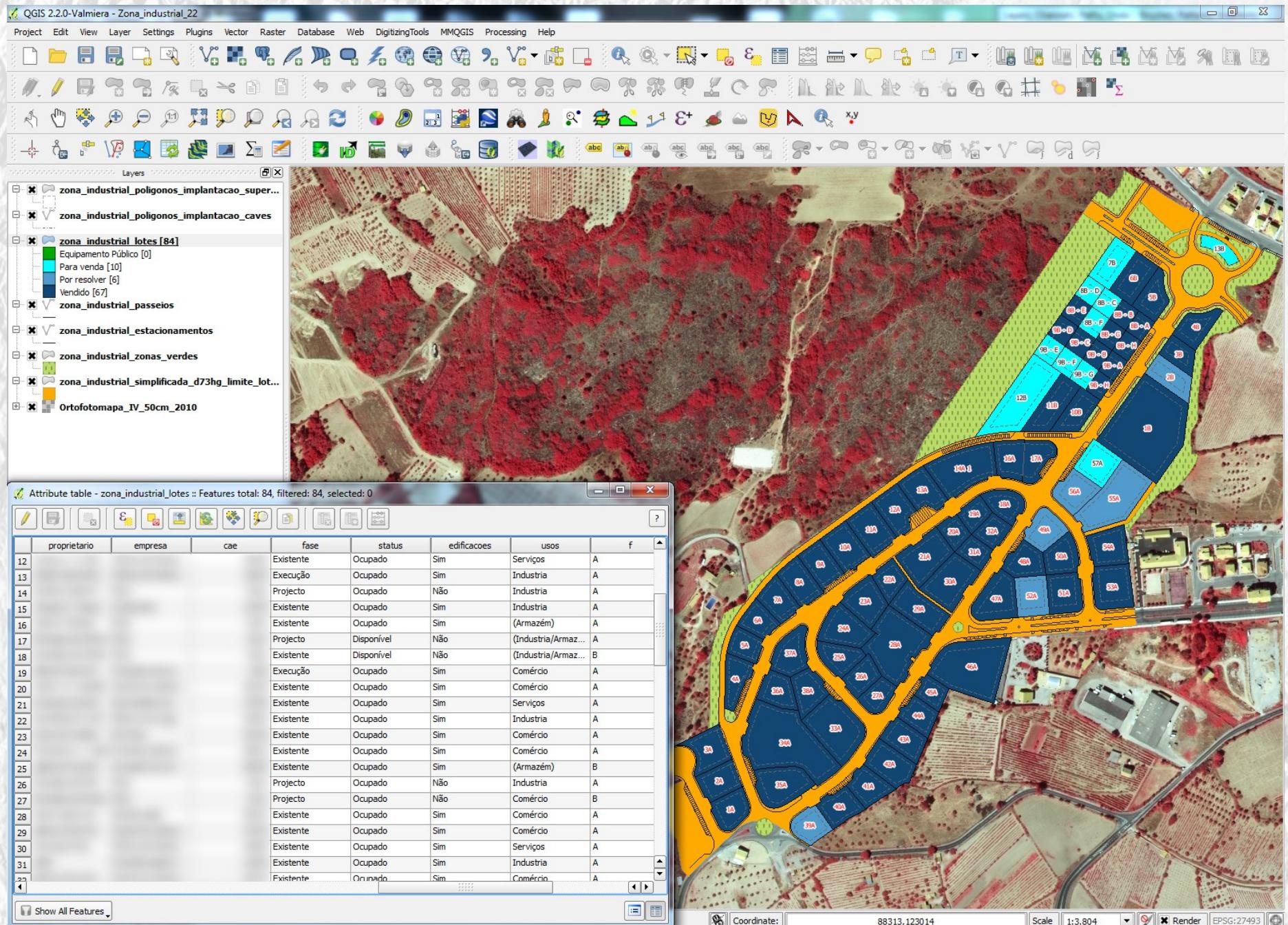
# Gestão da Rede Viária / Toponímia das Ruas



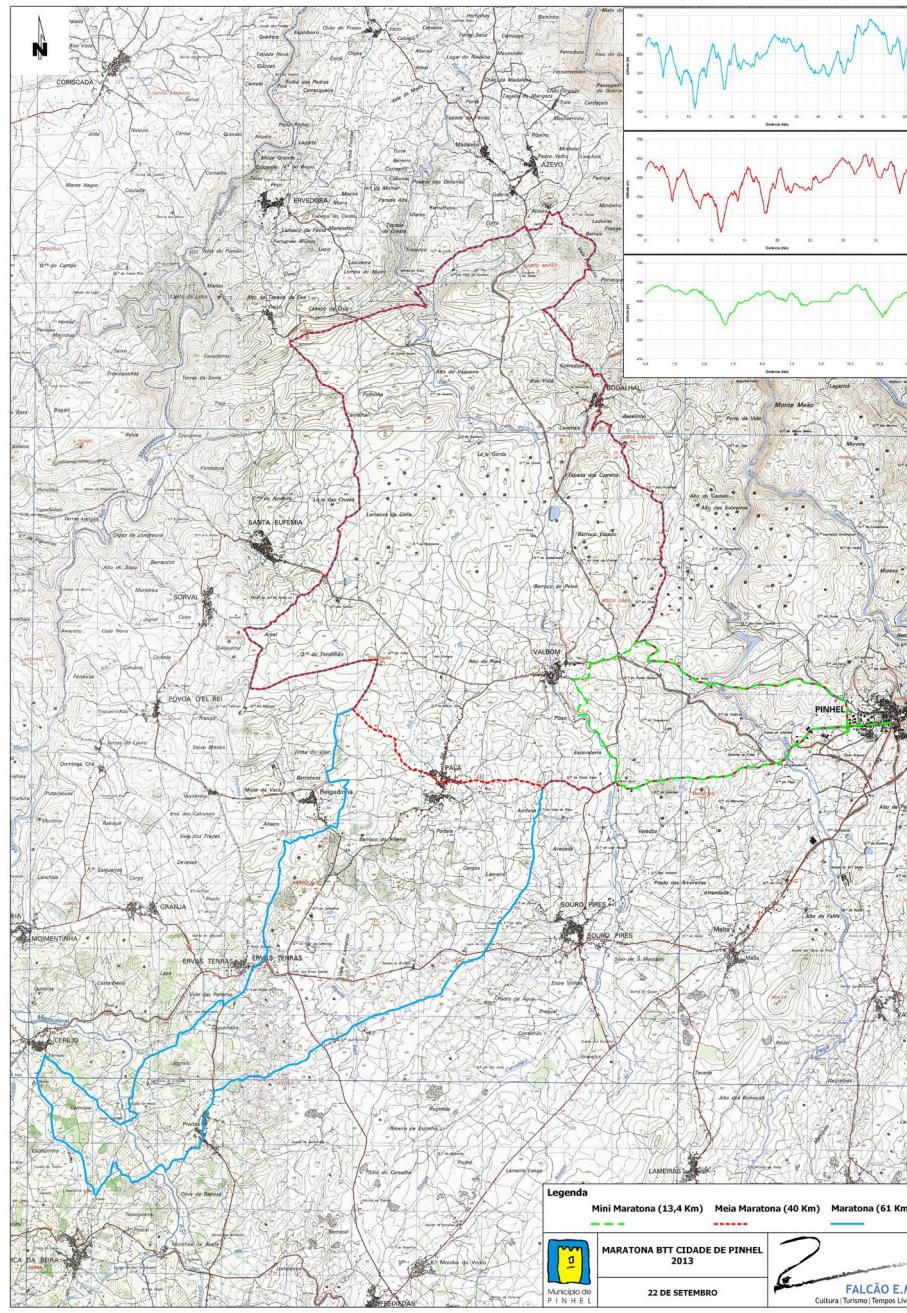
# Parque Industrial



# Parque Industrial



# Percursos Pedestres / BTT



# Percursos Pedestres / BTT

## Gabinete de Sistemas de Informação Geográfica

CÂMARA MUNICIPAL DE PINHEL

Palavras chave... Pesquisar

Home Gab. SIG Equipa Membros SIG Conceitos Formação Documentação WebSIG Aplicações WebServices GeoWebServices Bases de Dados Espaciais Coordenadas Transformação Utilitários Diversos Contactos Formulário

### Maratona BTT Cidade de Pinhel 2013

The map displays a blue line representing the bicycle route, starting and ending in Pinhel. A callout box shows coordinates: elevation=642.9480590820312 and location=40.772975,-7.069708. The map includes a legend for roads (N102, E802, N221, N224, N226, N226) and a scale bar. Below the map is an elevation profile graph showing altitude changes from 450m to 700m.

[Download do Percurso \(GPX\)](#)  
[Download do Percurso \(KML\)](#)  
[Download do Perfil](#)  
[Análise do Percurso](#)  
[Outras Informações](#)

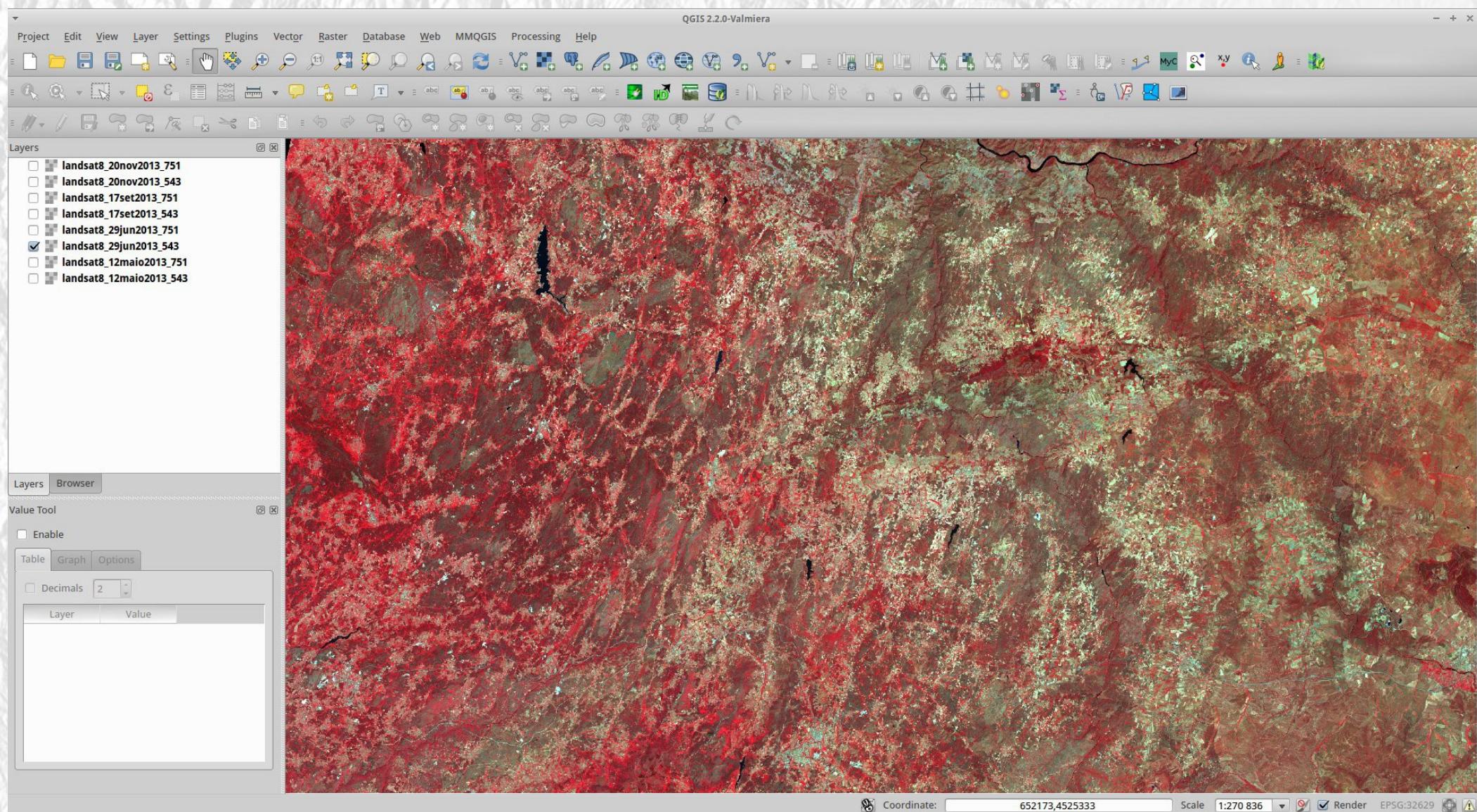
Contactos:  
Município de Pinhel  
Falcão Empresa Municipal  
Pedro Afonso:  
Elisabete Carvalho:  
desporto.falcao.ctt.em@gmail.com

HOME ▶ UTILITÁRIOS ▶ MARATONAS BTT ▶ MARATONA 2013 ▲ TOP

Gabinete de Sistemas de Informação Geográfica  
Pedro Venâncio | 2014

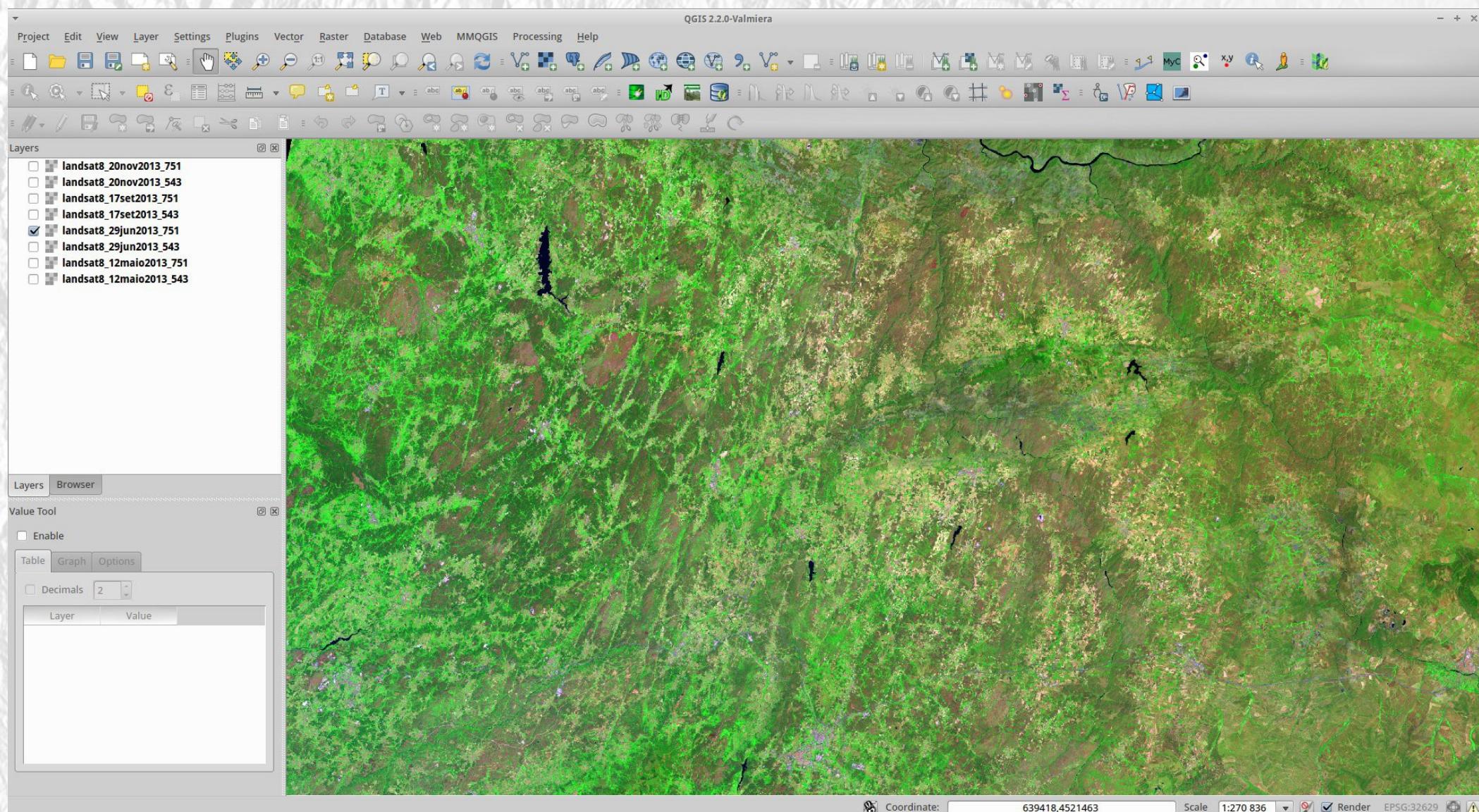
# Detecção Remota – Áreas Arditas

- Landsat 8 | 29 Junho 2013 | RGB 543



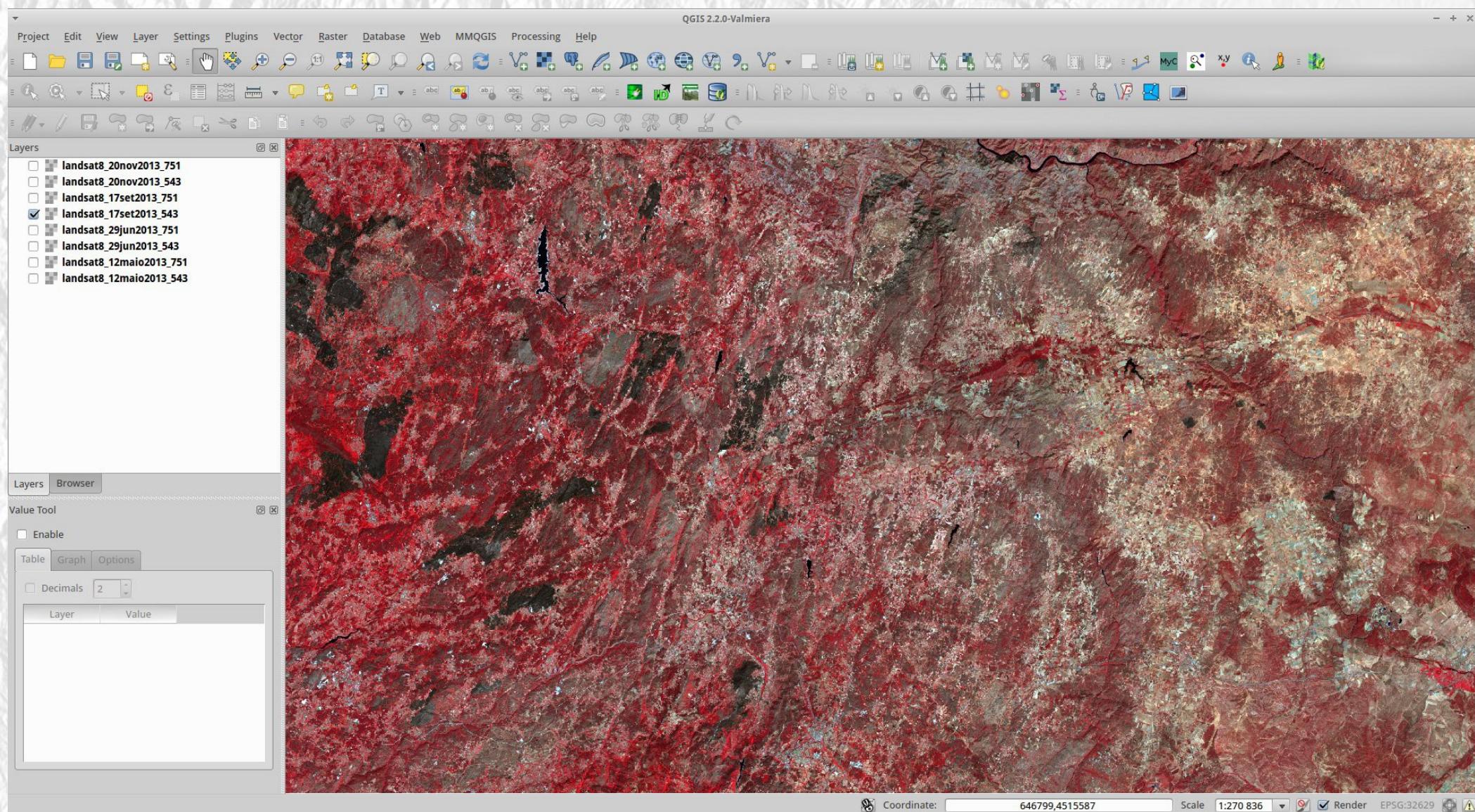
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- Landsat 8 | 29 Junho 2013 | RGB 751



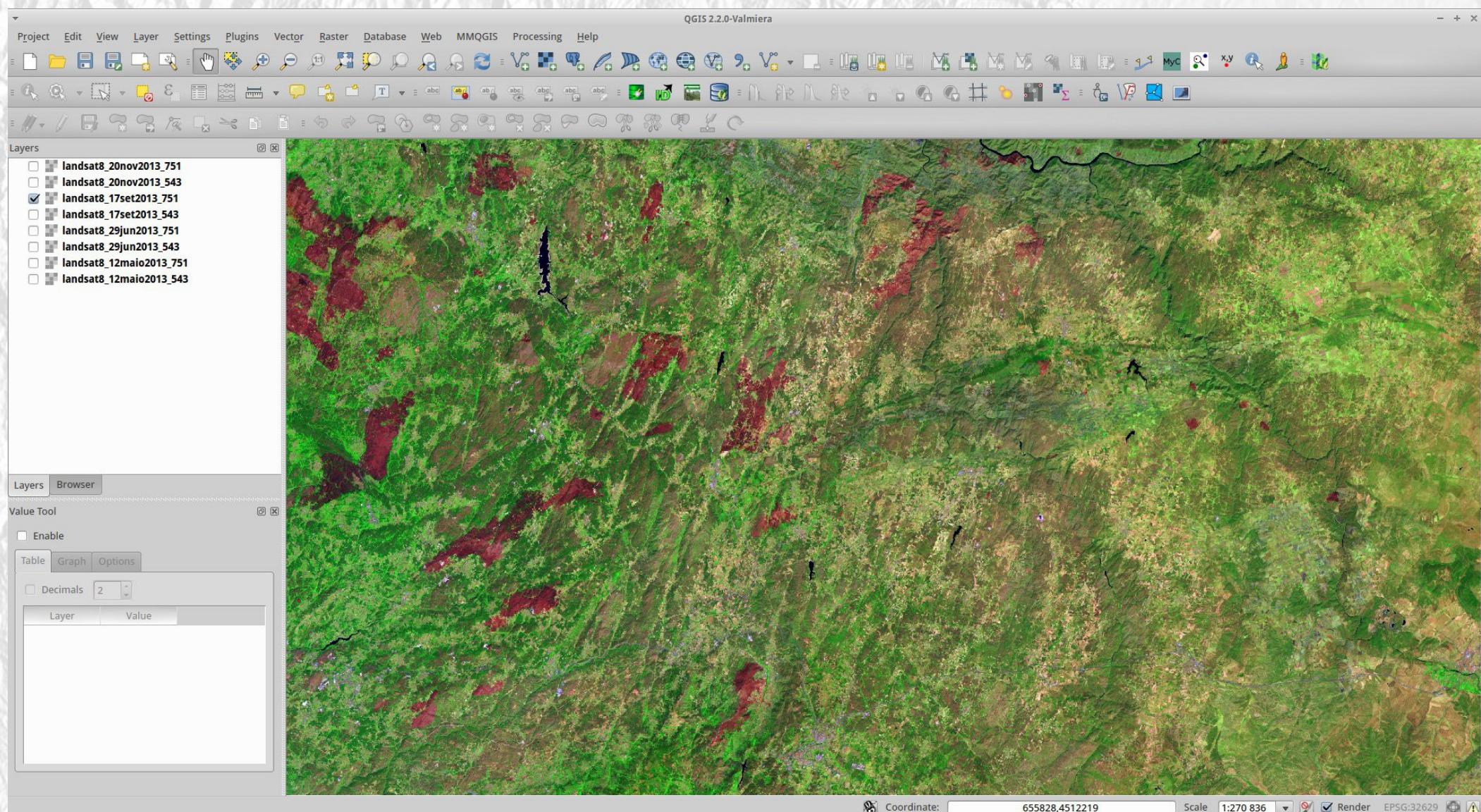
# Detecção Remota – Áreas Arditas

- Landsat 8 | 17 Setembro 2013 | RGB 543



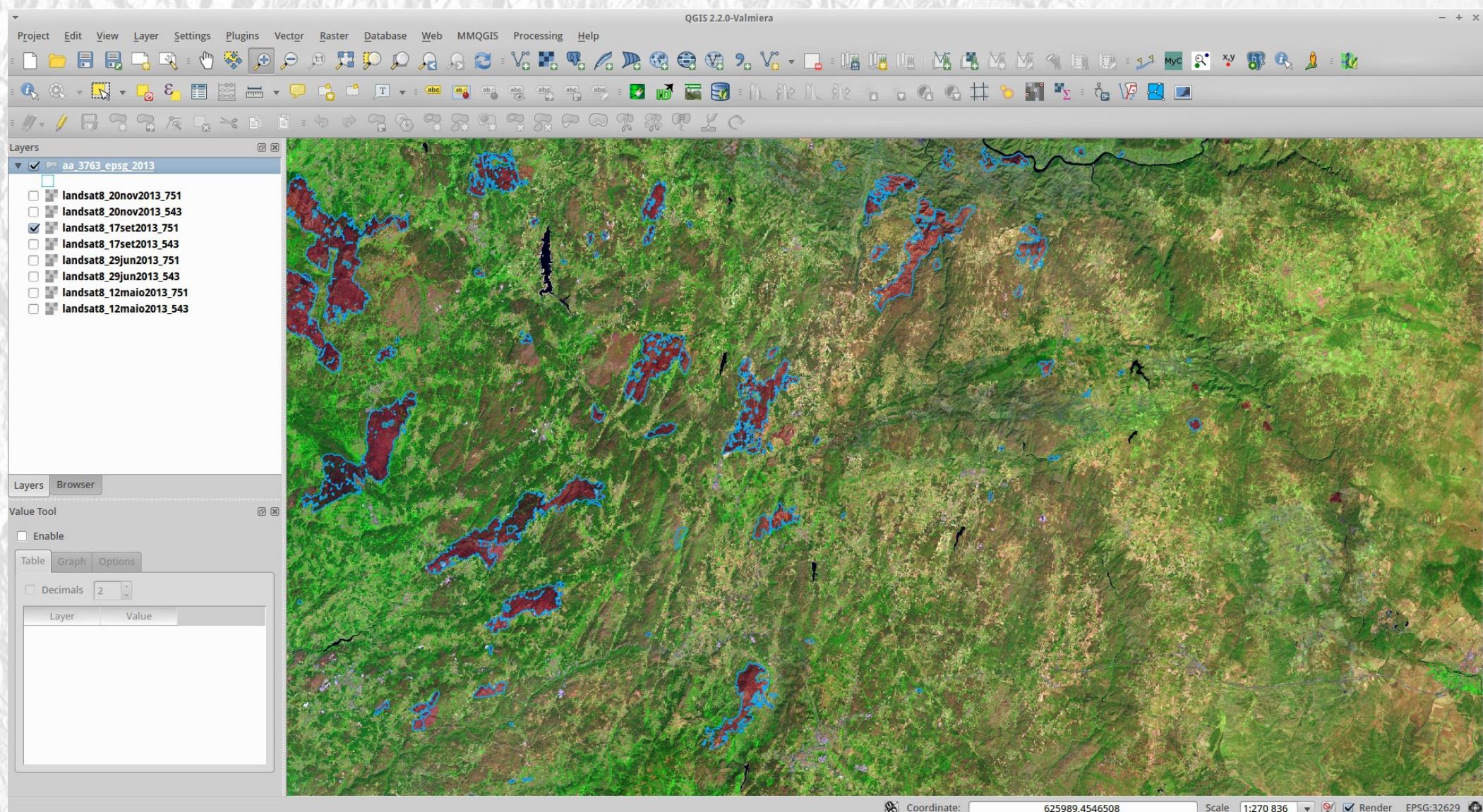
# Detecção Remota – Áreas Arditas

- Landsat 8 | 17 Setembro 2013 | RGB 751

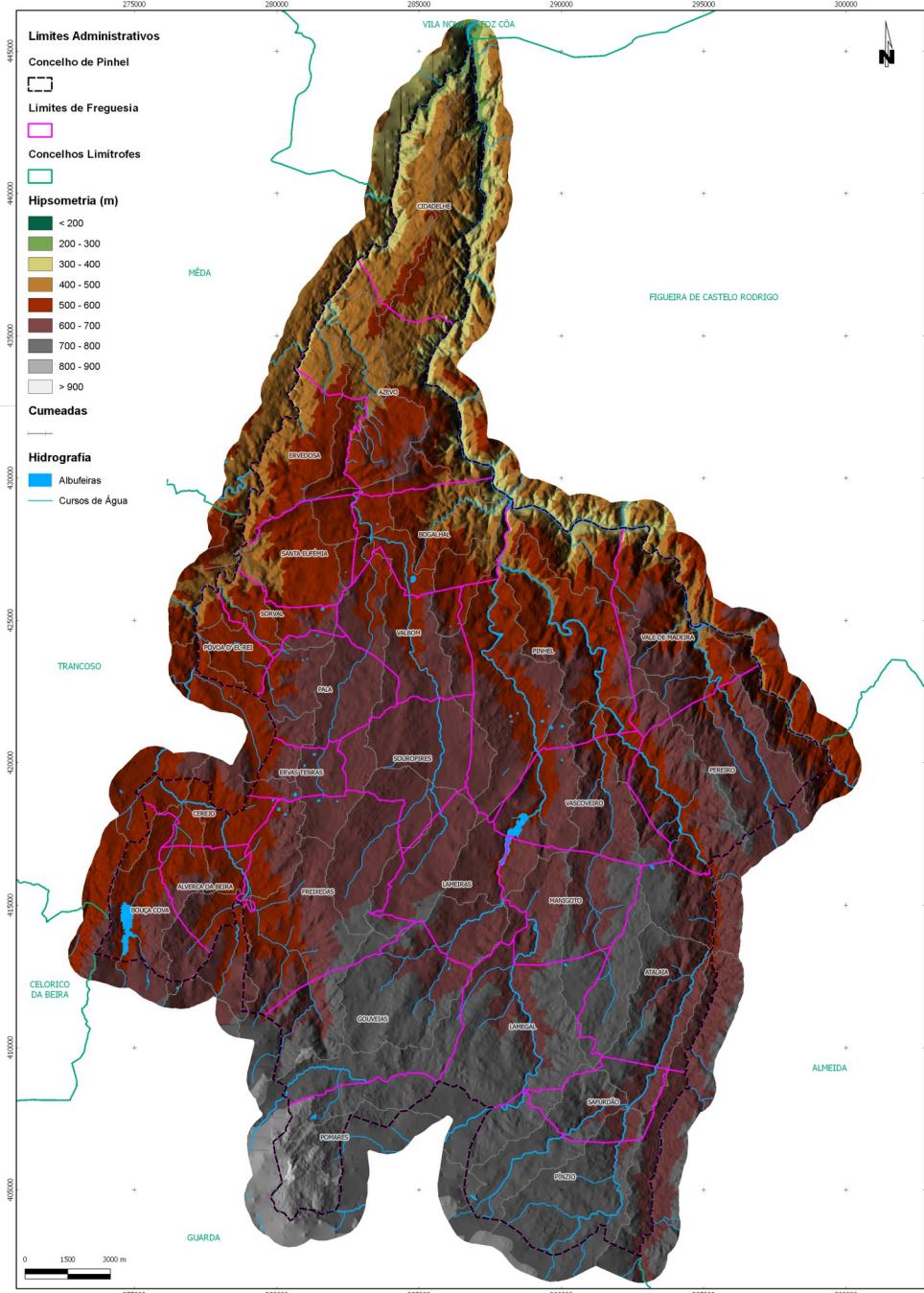
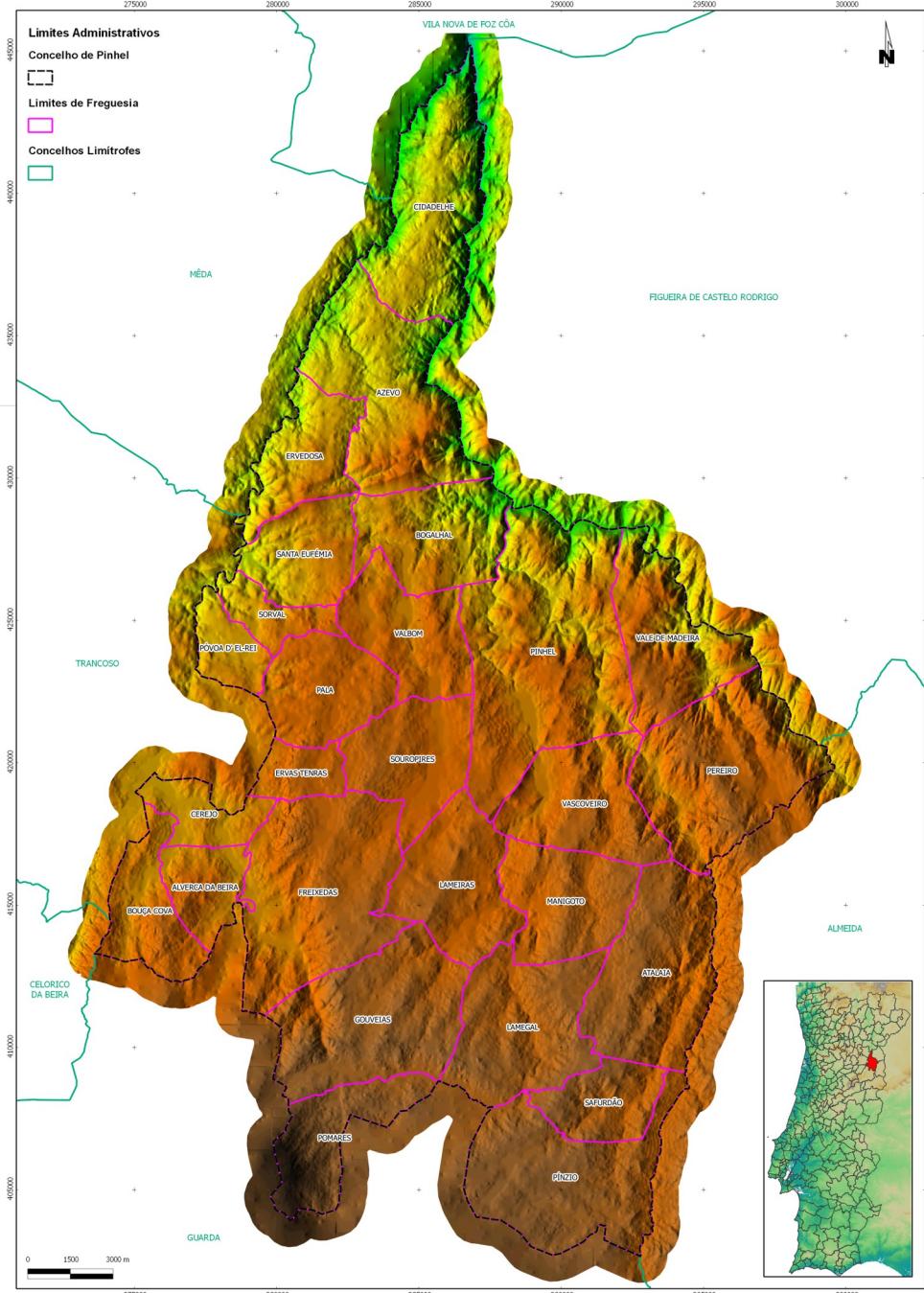


# Detecção Remota – Áreas Arditas

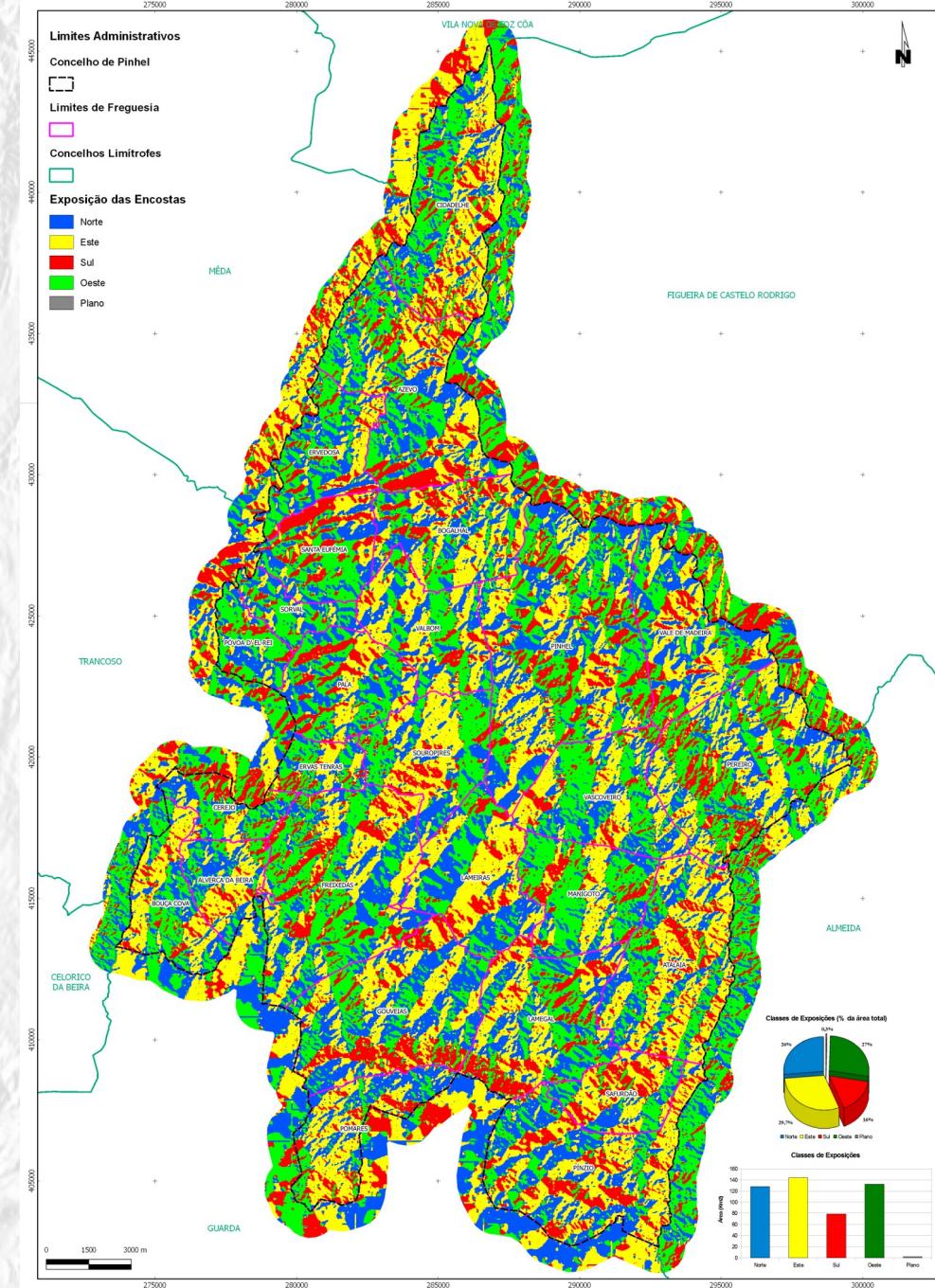
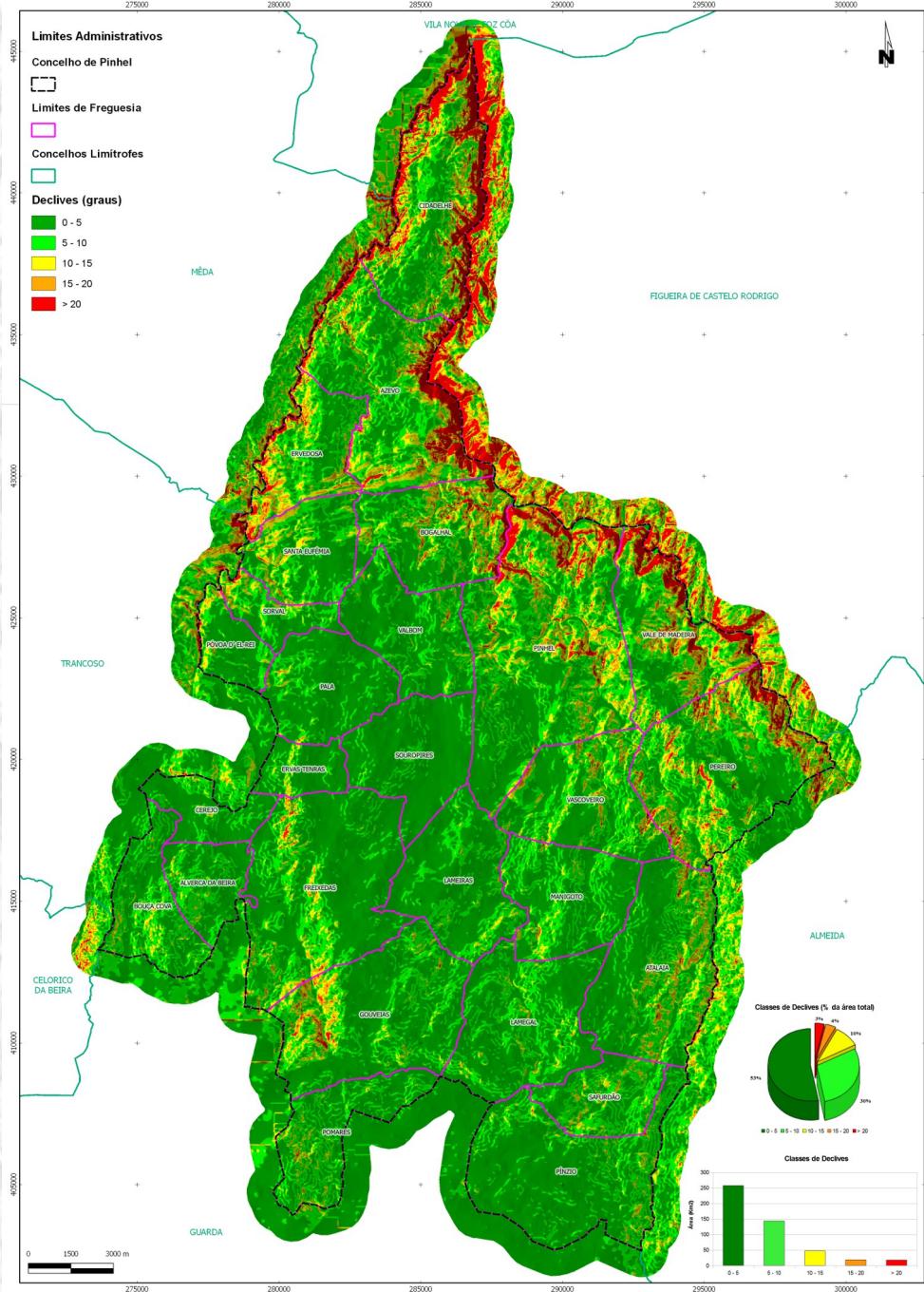
- Landsat 8 | 17 Setembro 2013 | RGB 751 vs. Cartografia de Áreas Arditas 2013



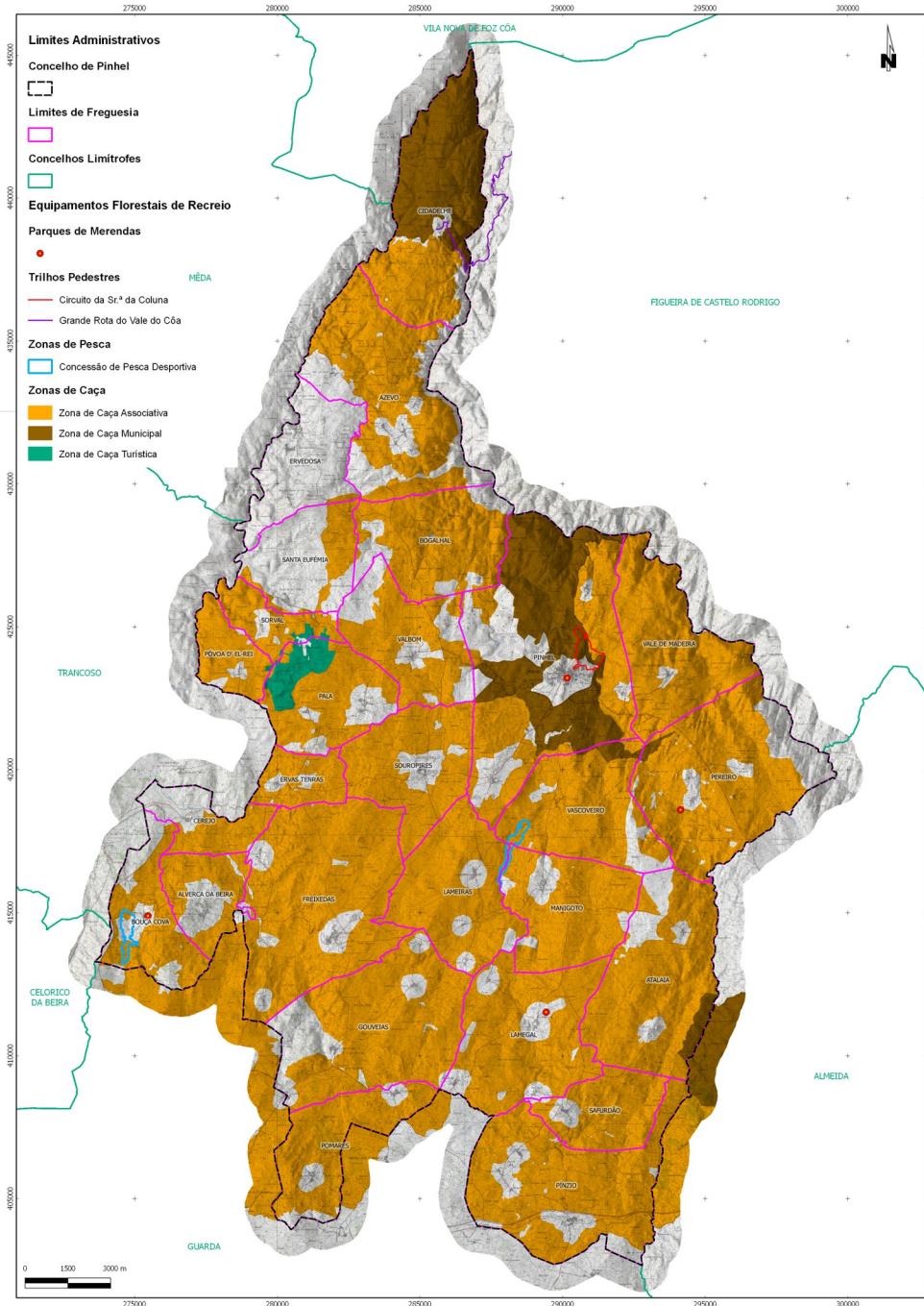
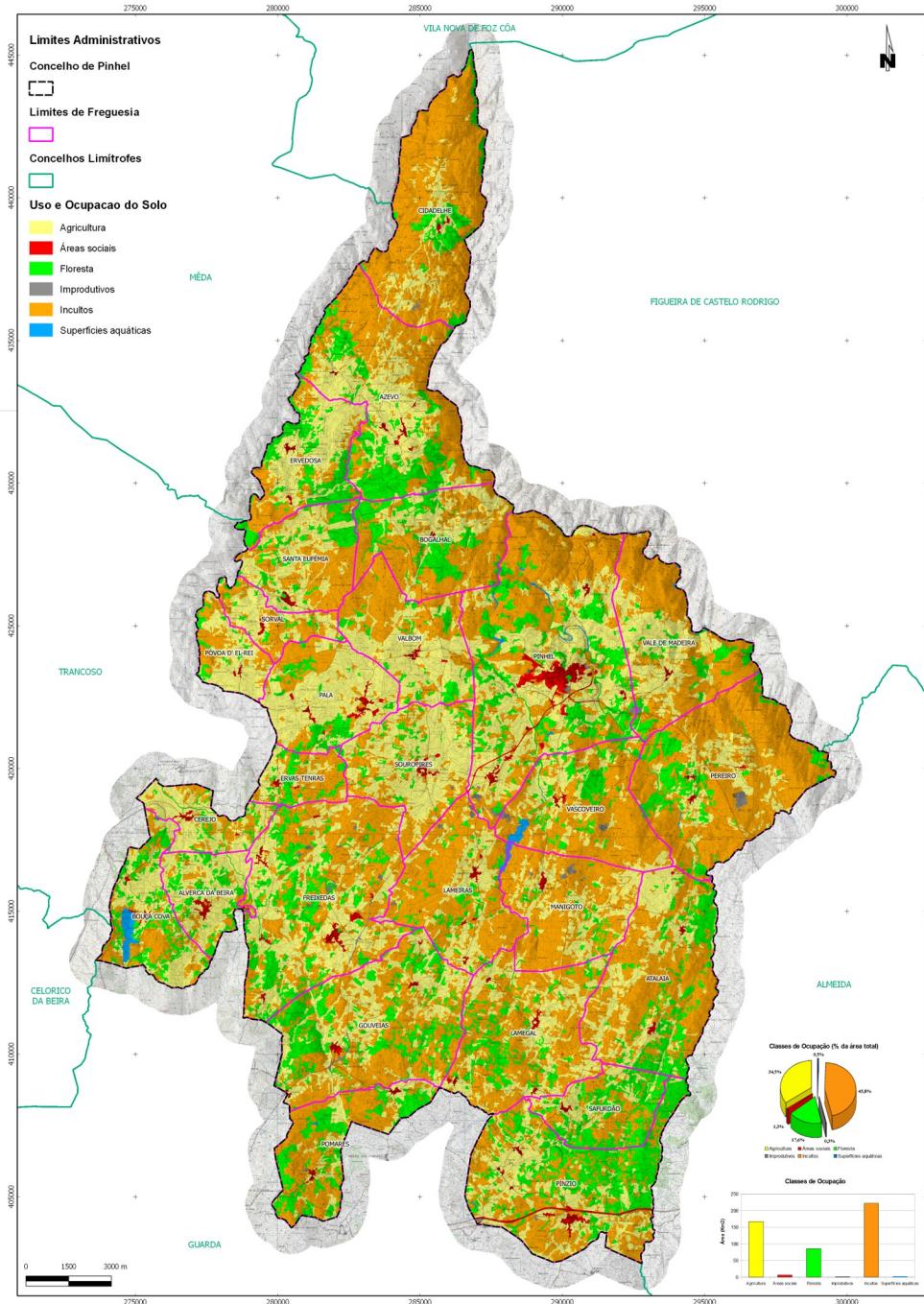
# Plano Municipal de Defesa da Floresta Contra Incêndios



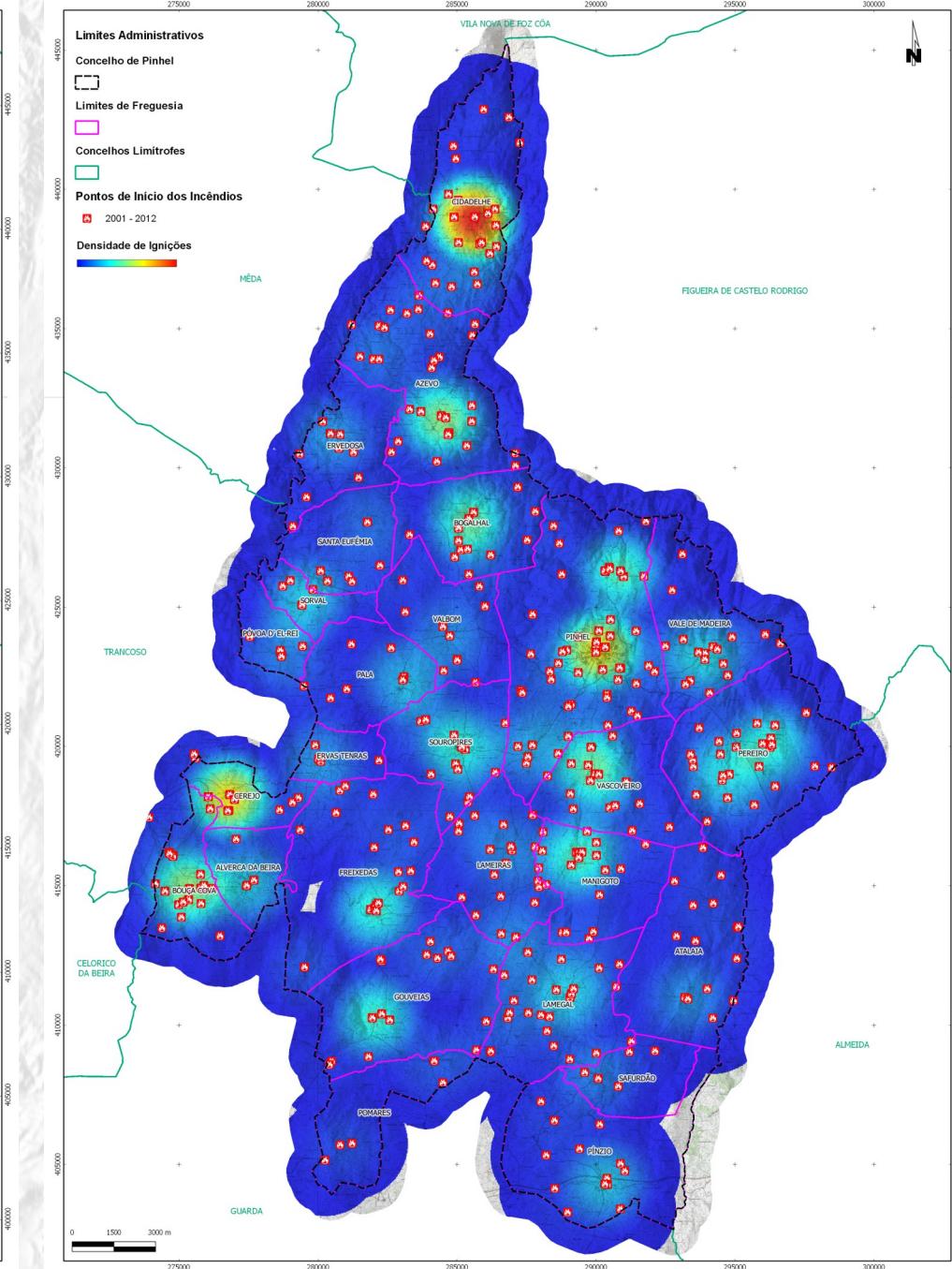
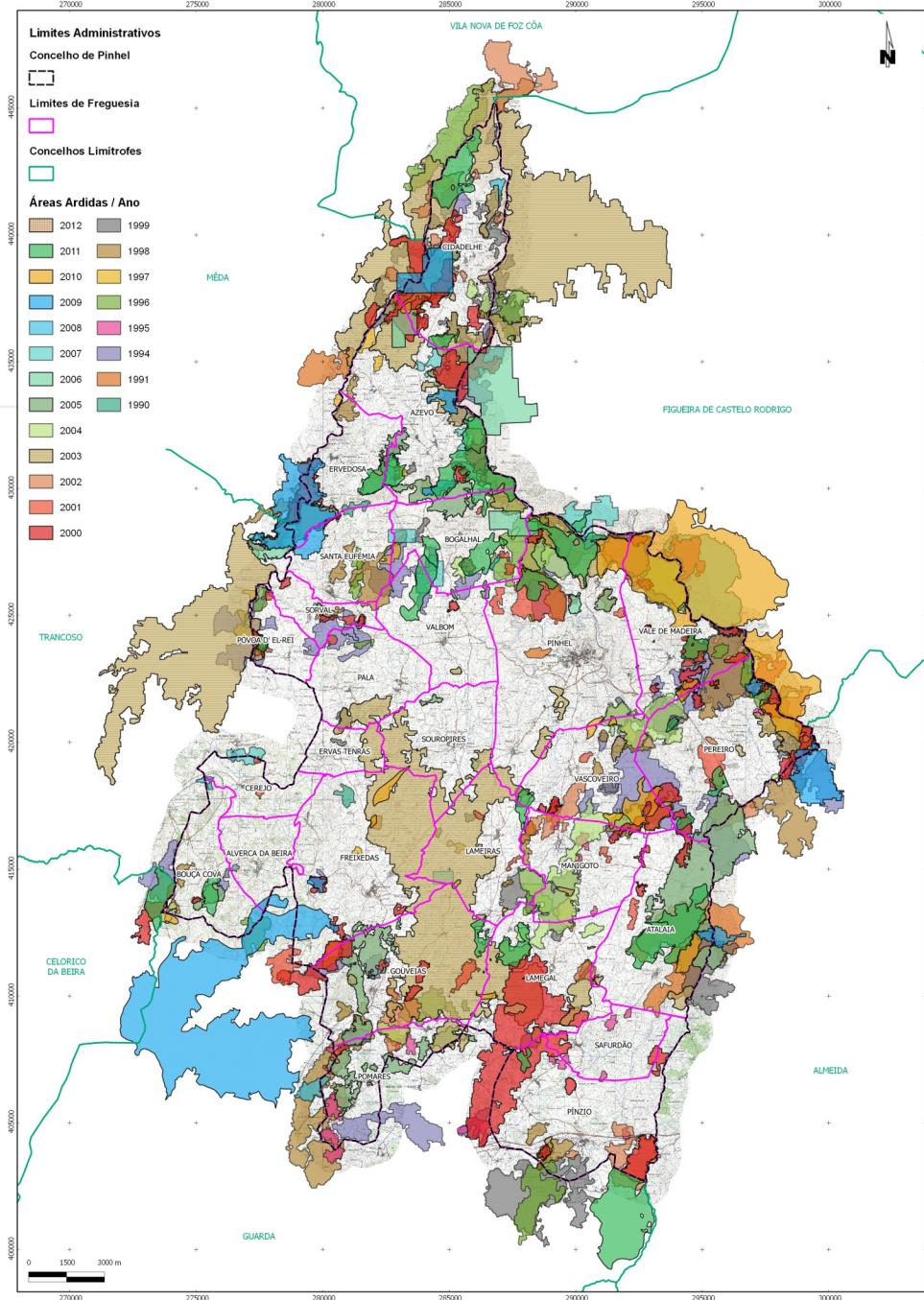
# Plano Municipal de Defesa da Floresta Contra Incêndios



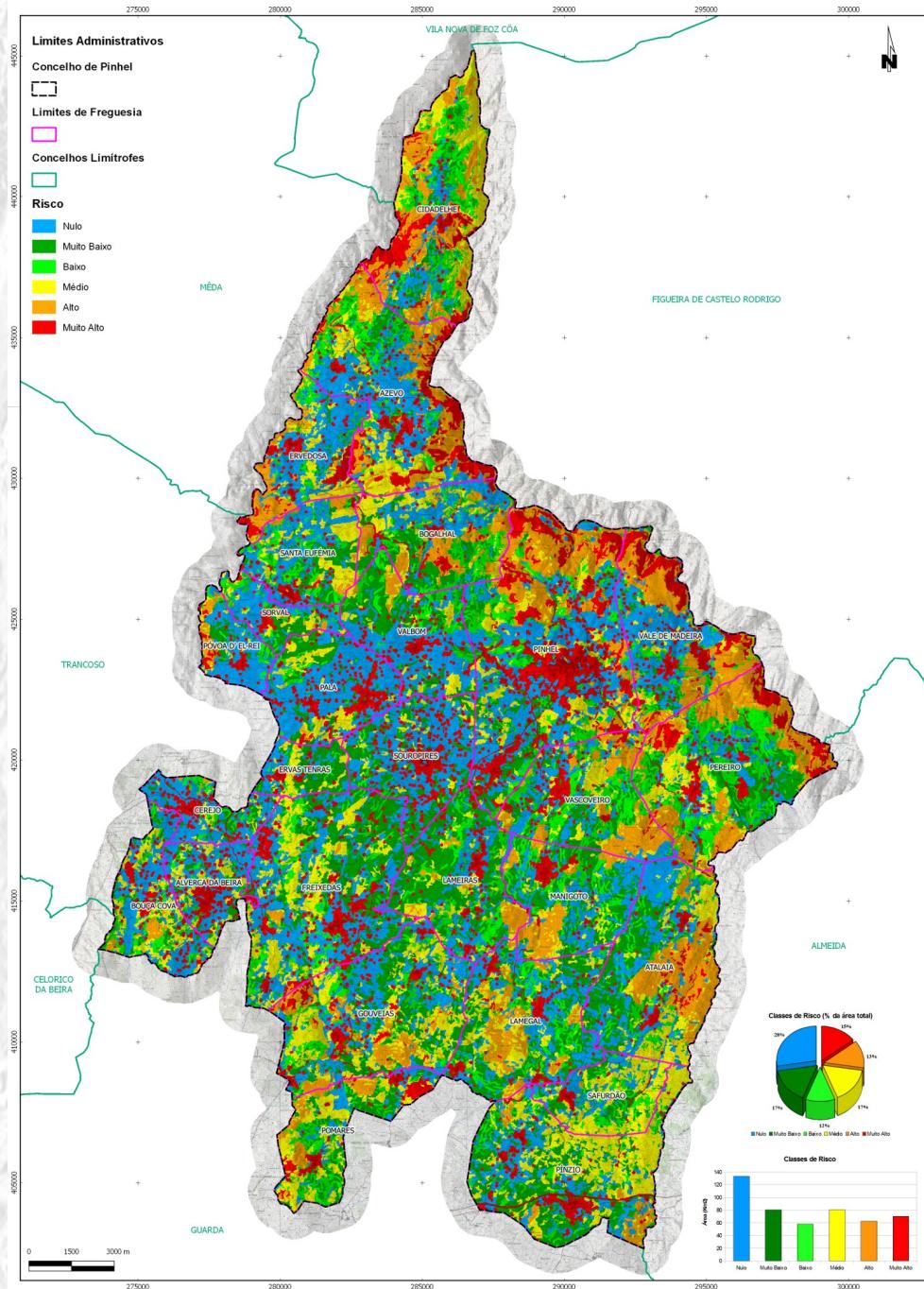
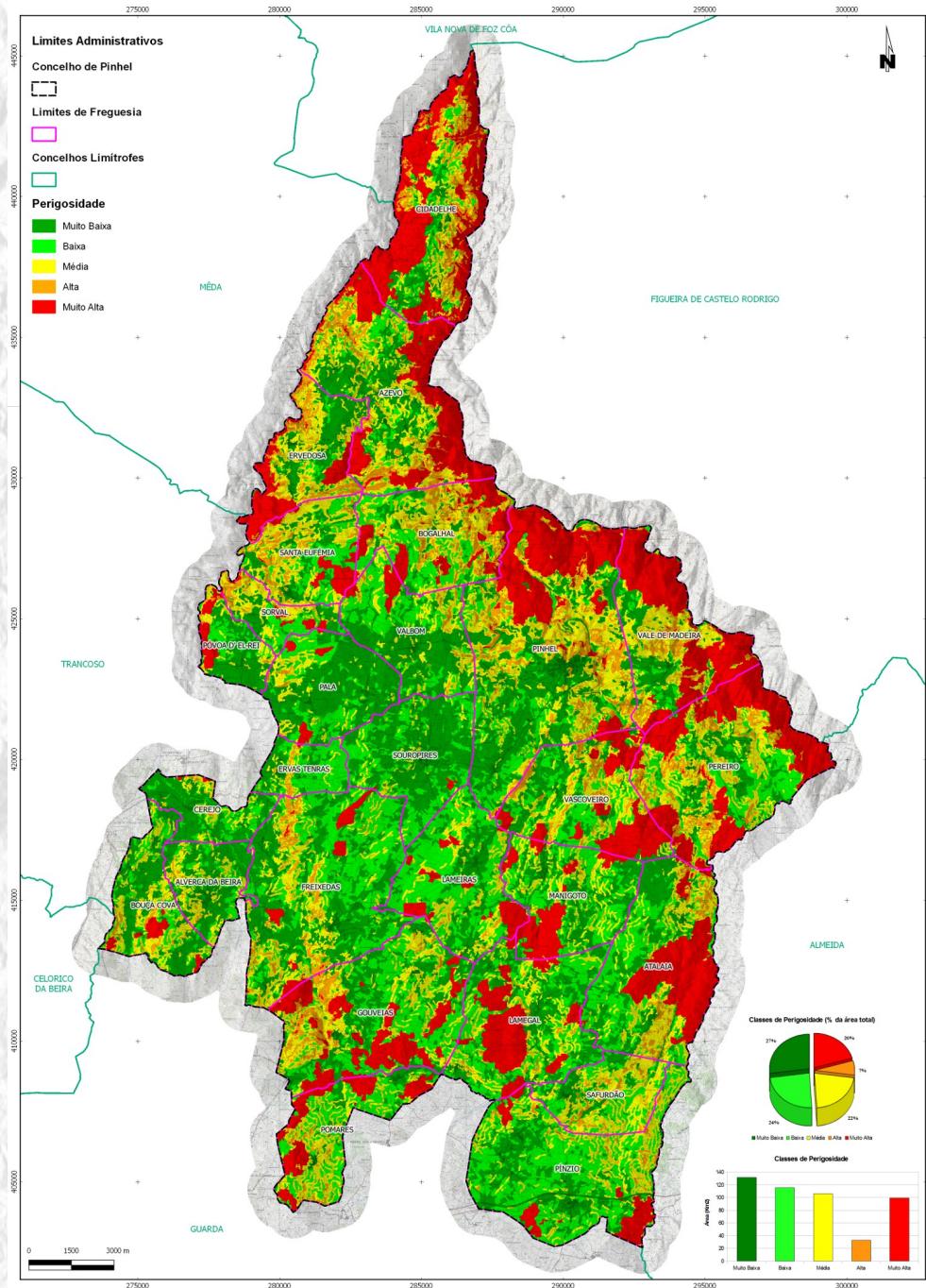
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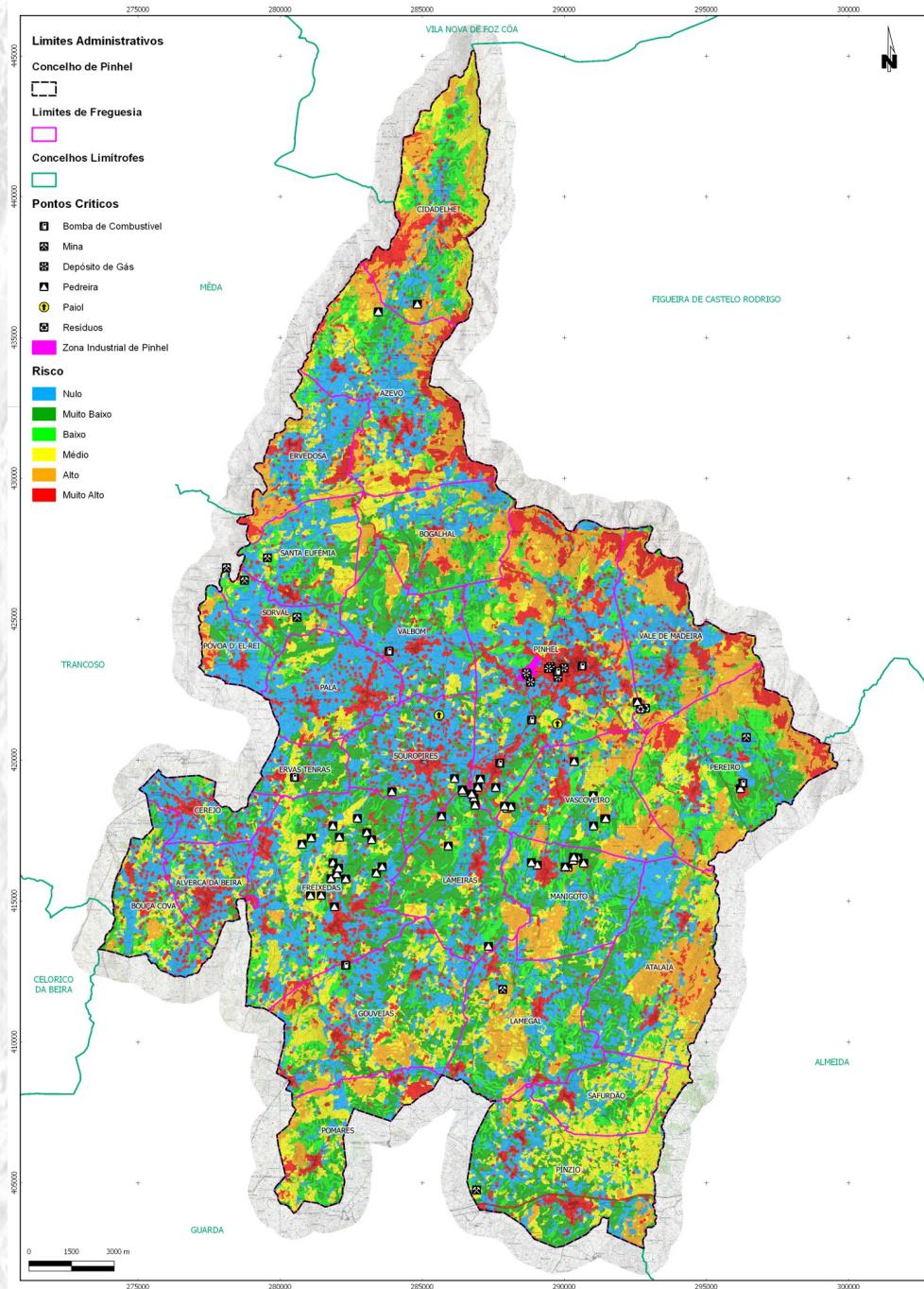
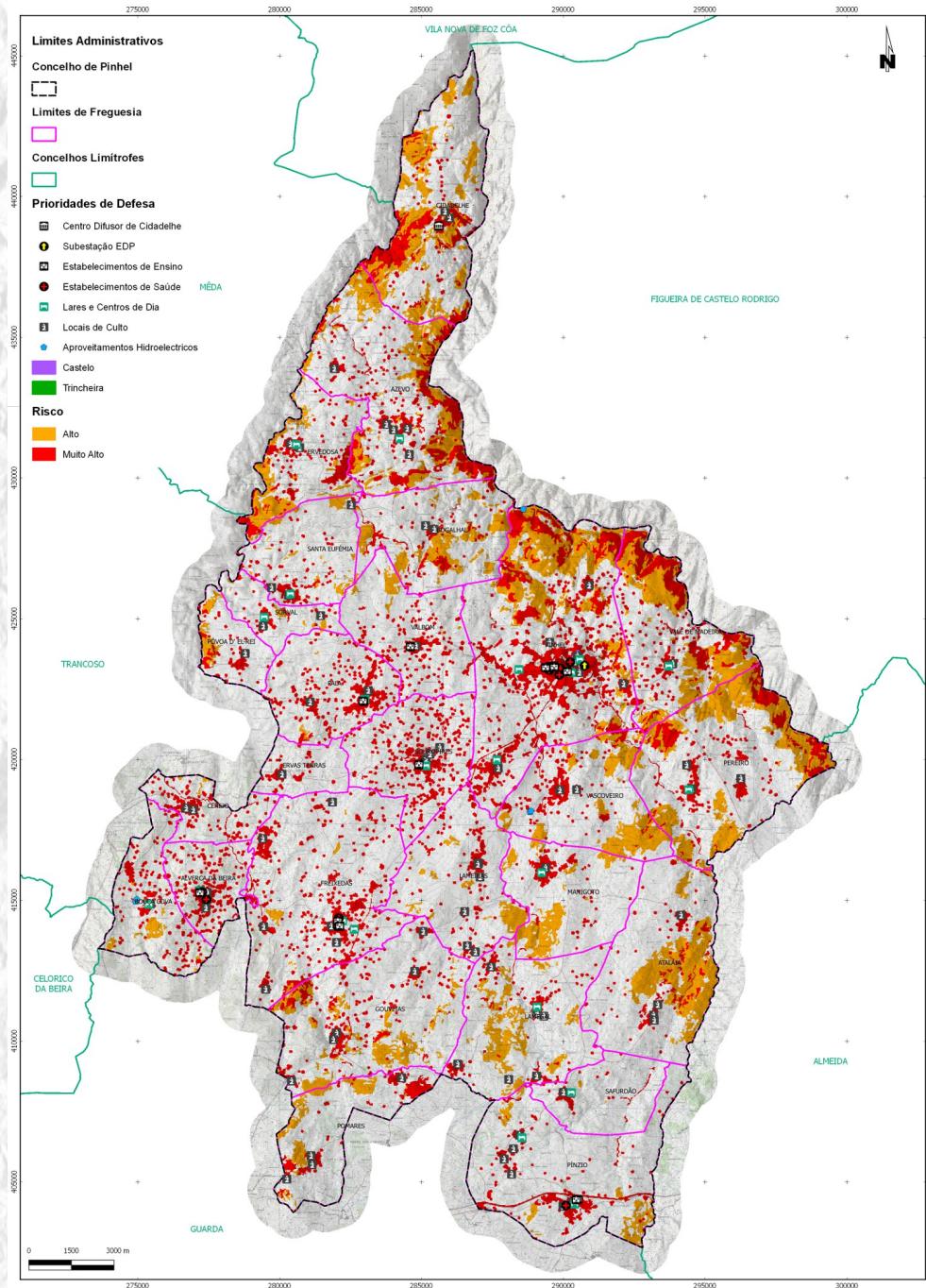
# Plano Municipal de Defesa da Floresta Contra Incêndios



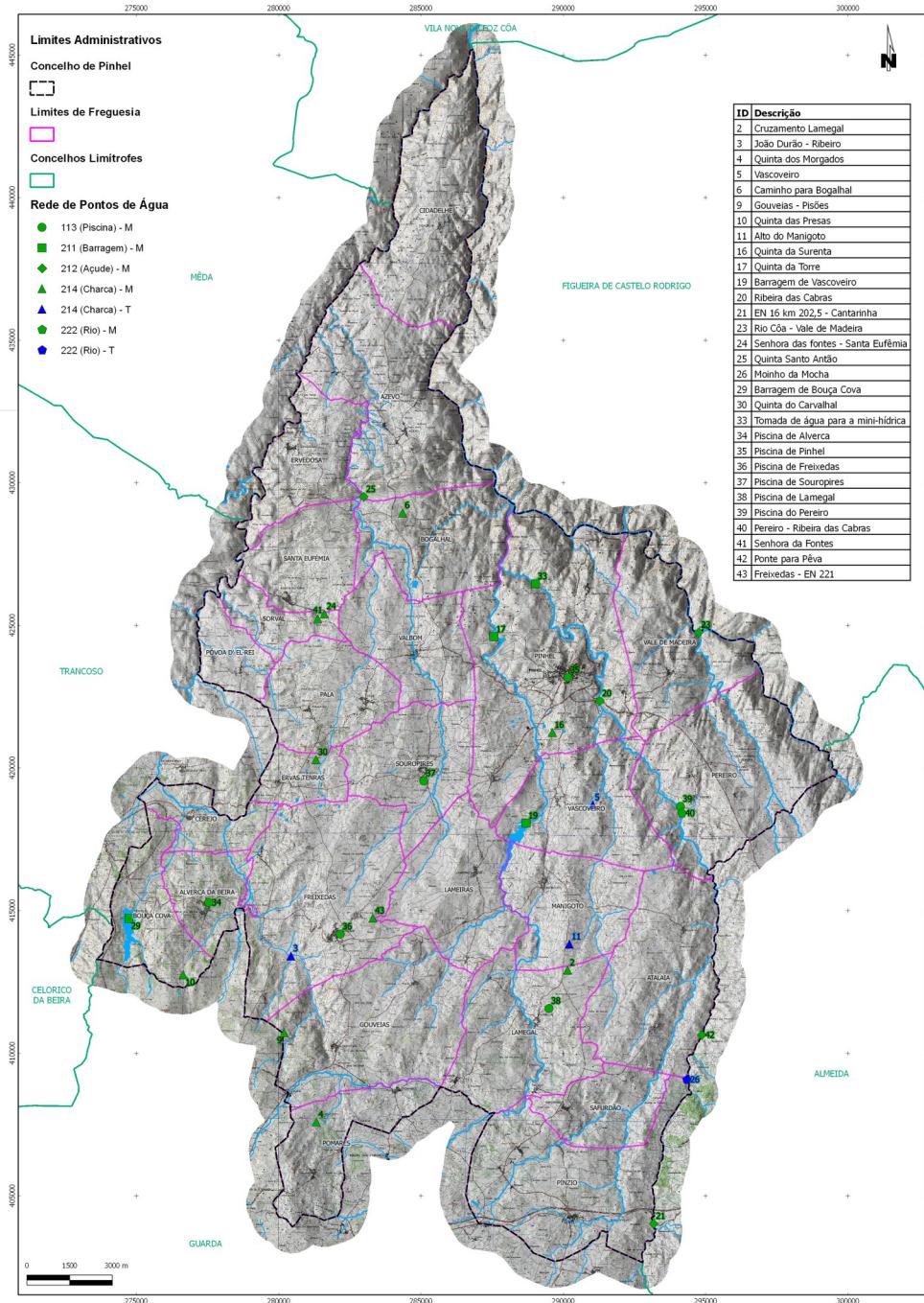
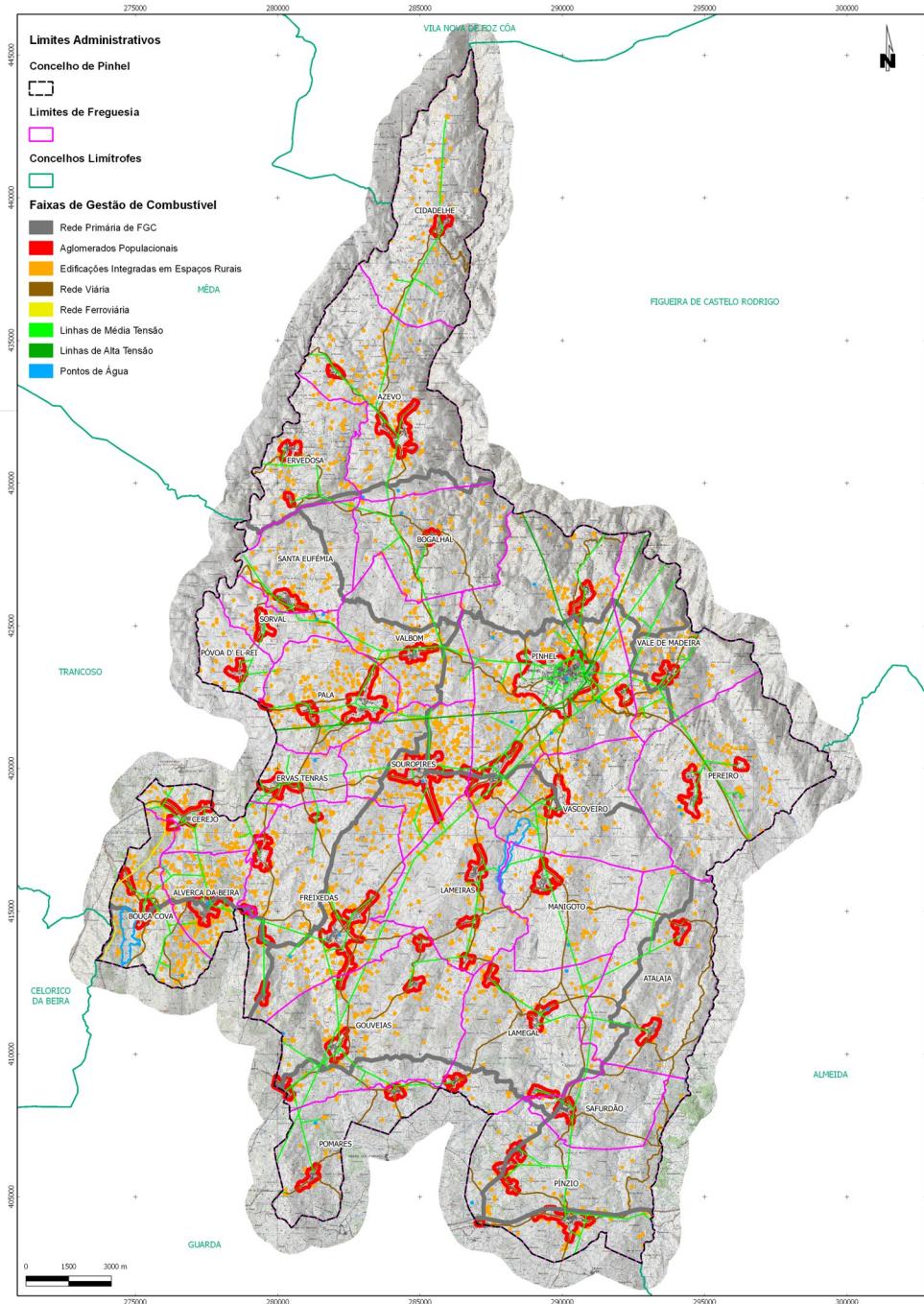
# **Plano Municipal de Defesa da Floresta Contra Incêndios**



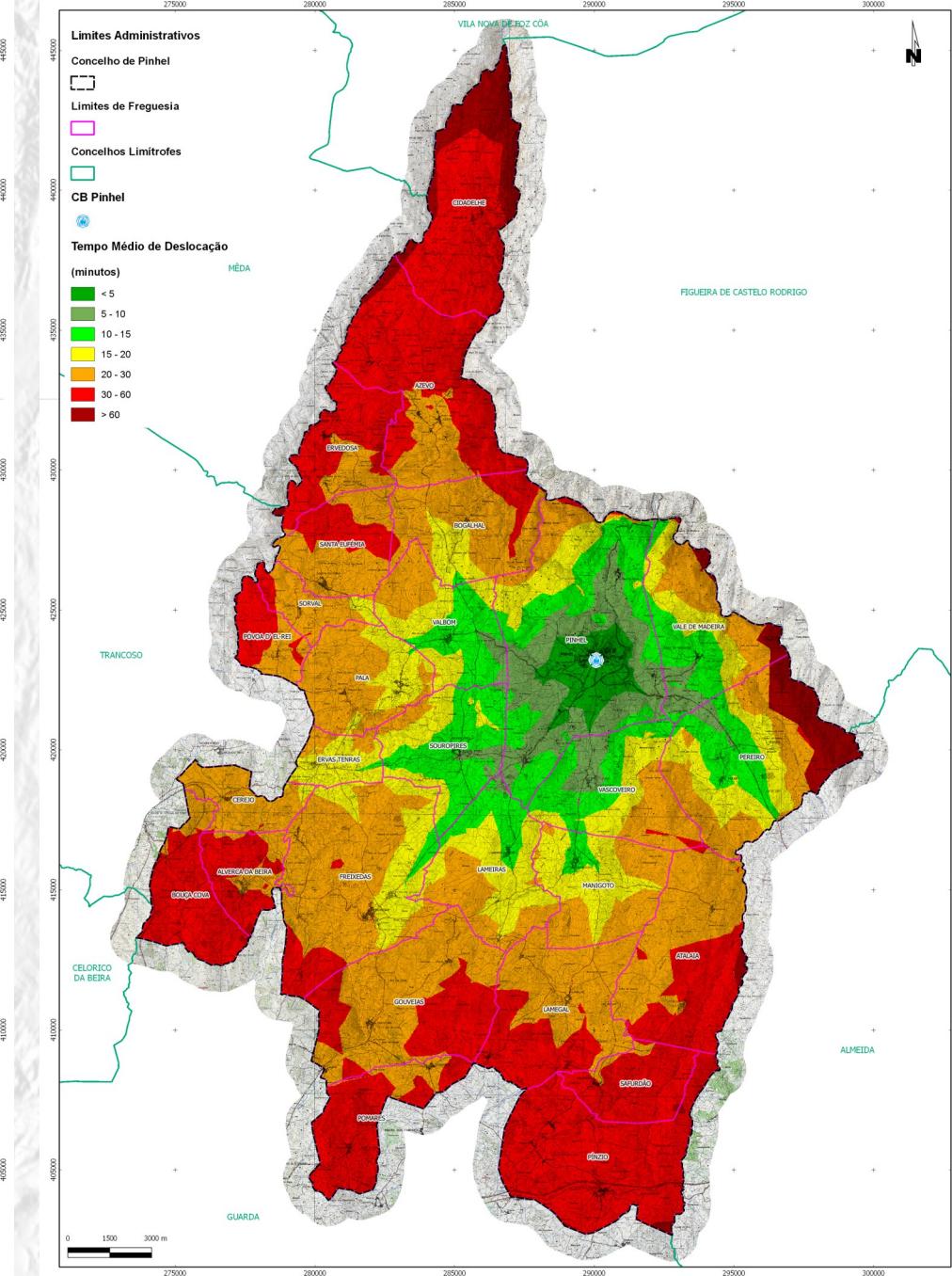
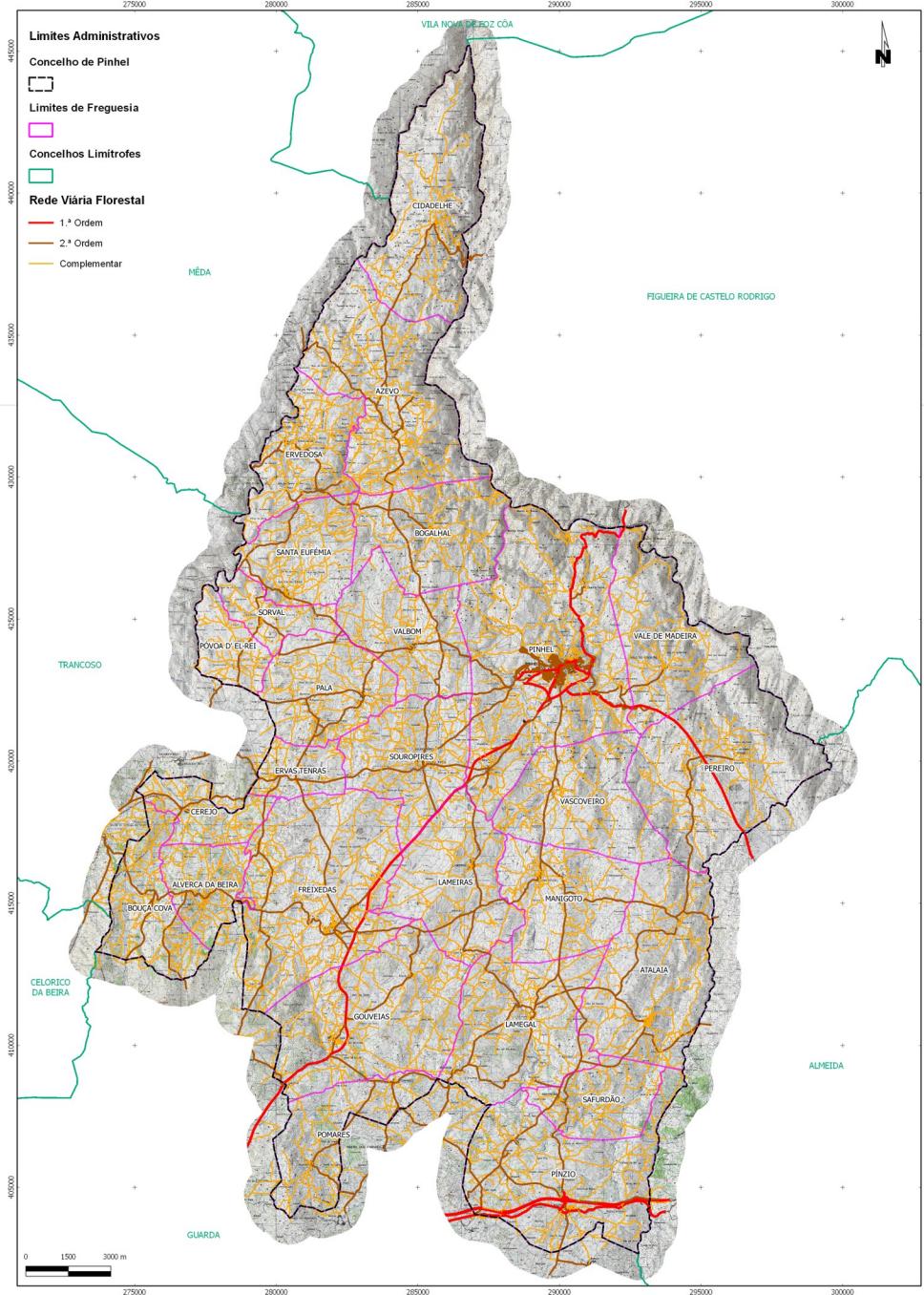
# **Plano Municipal de Defesa da Floresta Contra Incêndios**



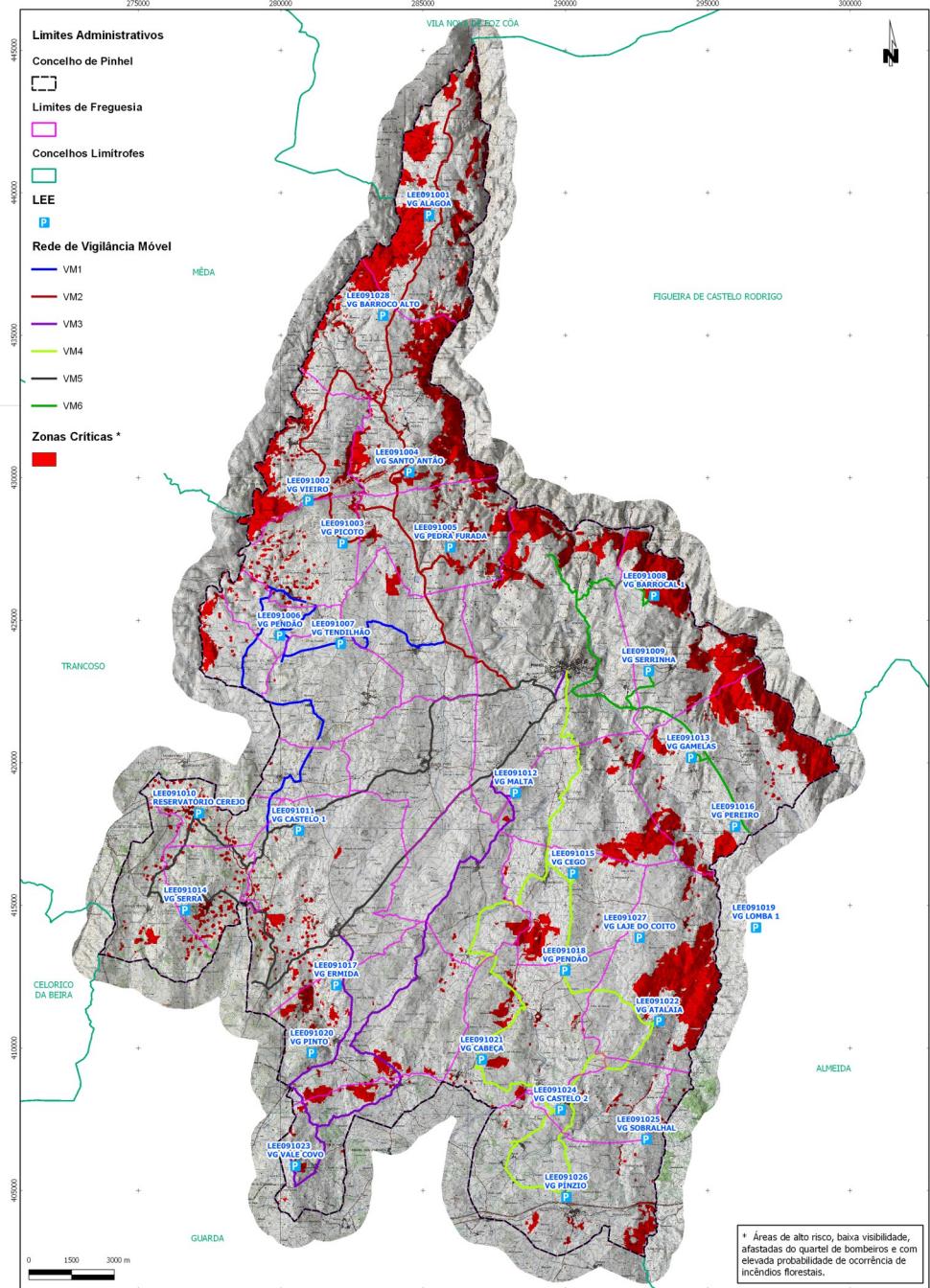
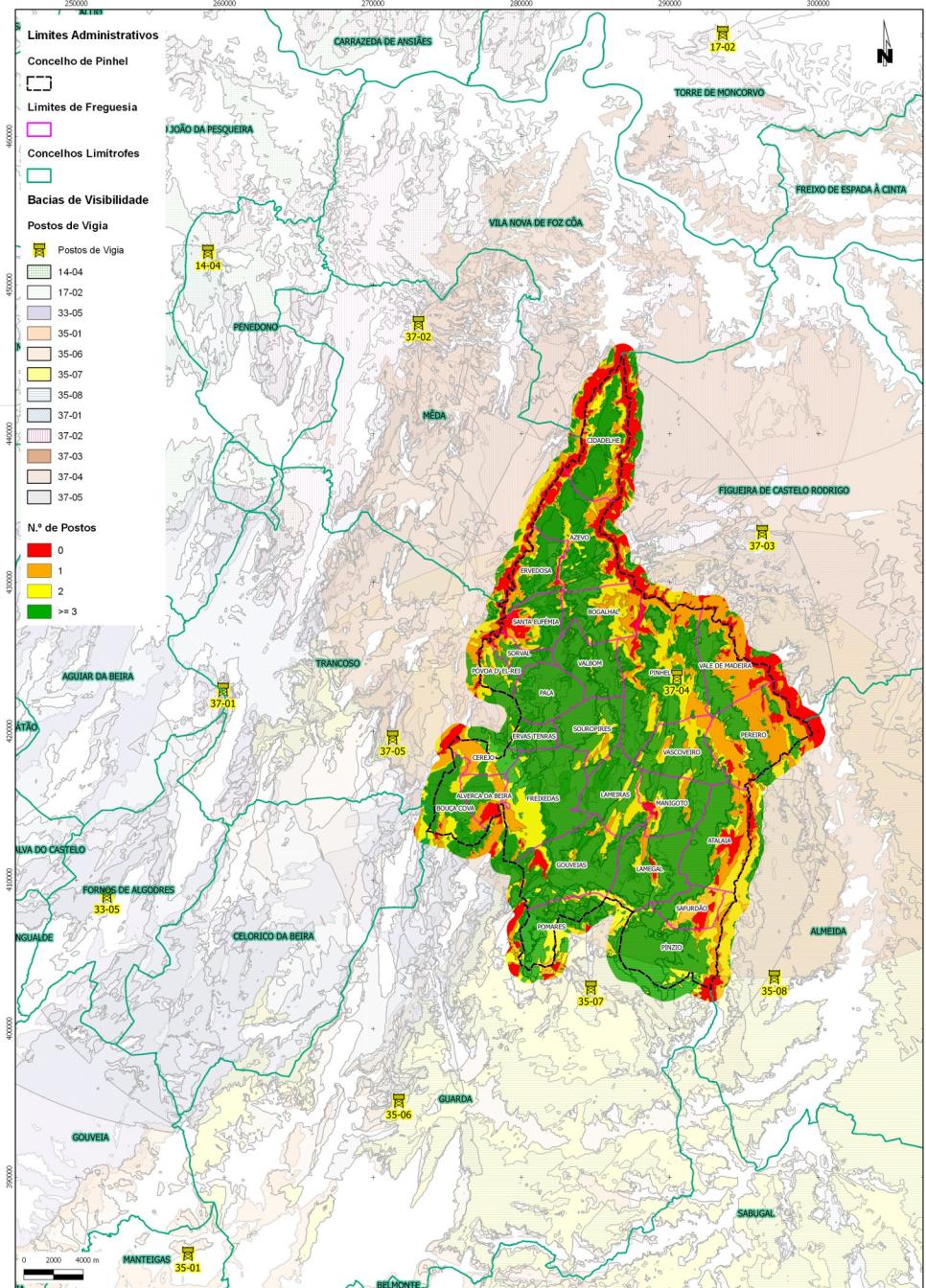
# Plano Municipal de Defesa da Floresta Contra Incêndios



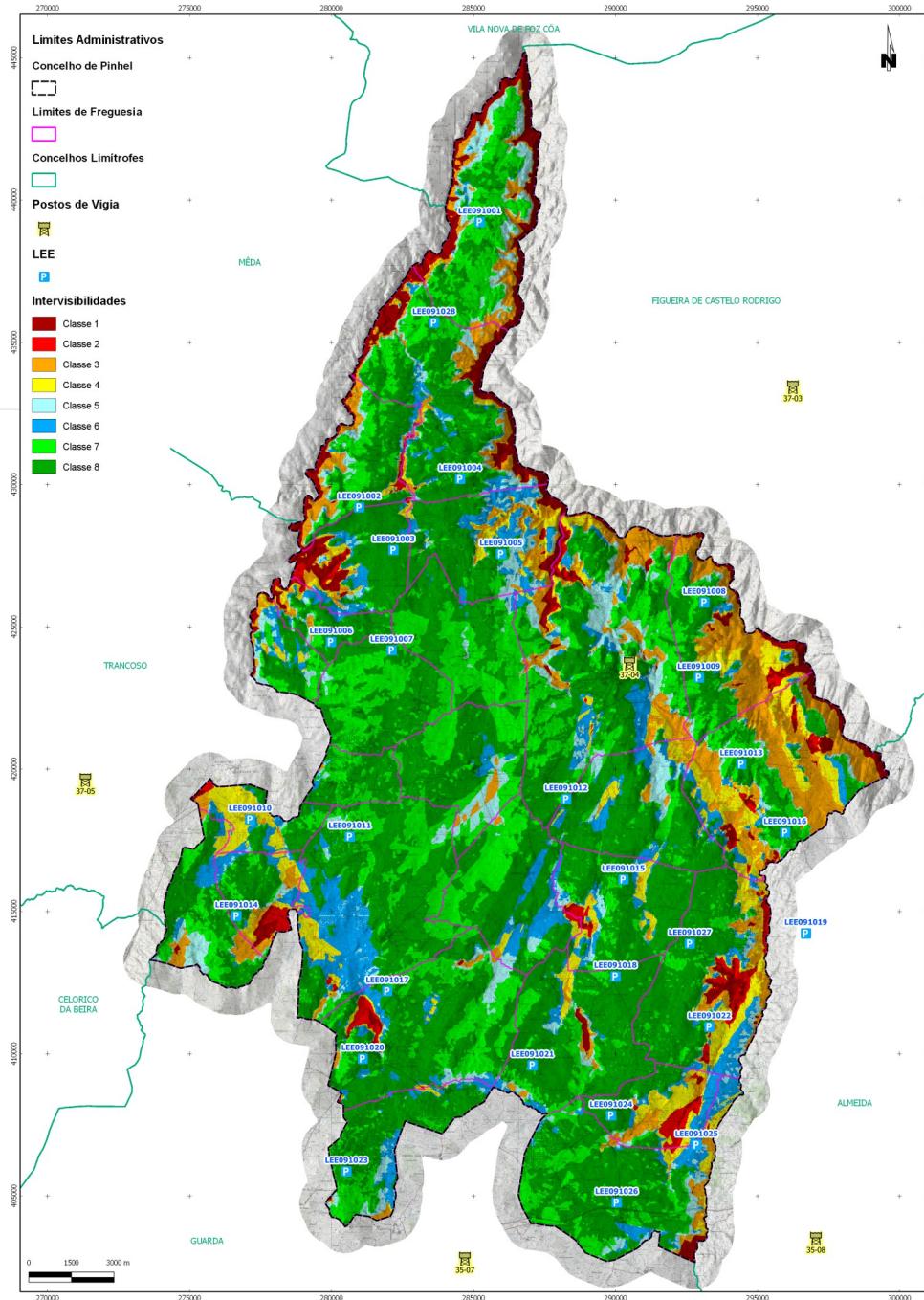
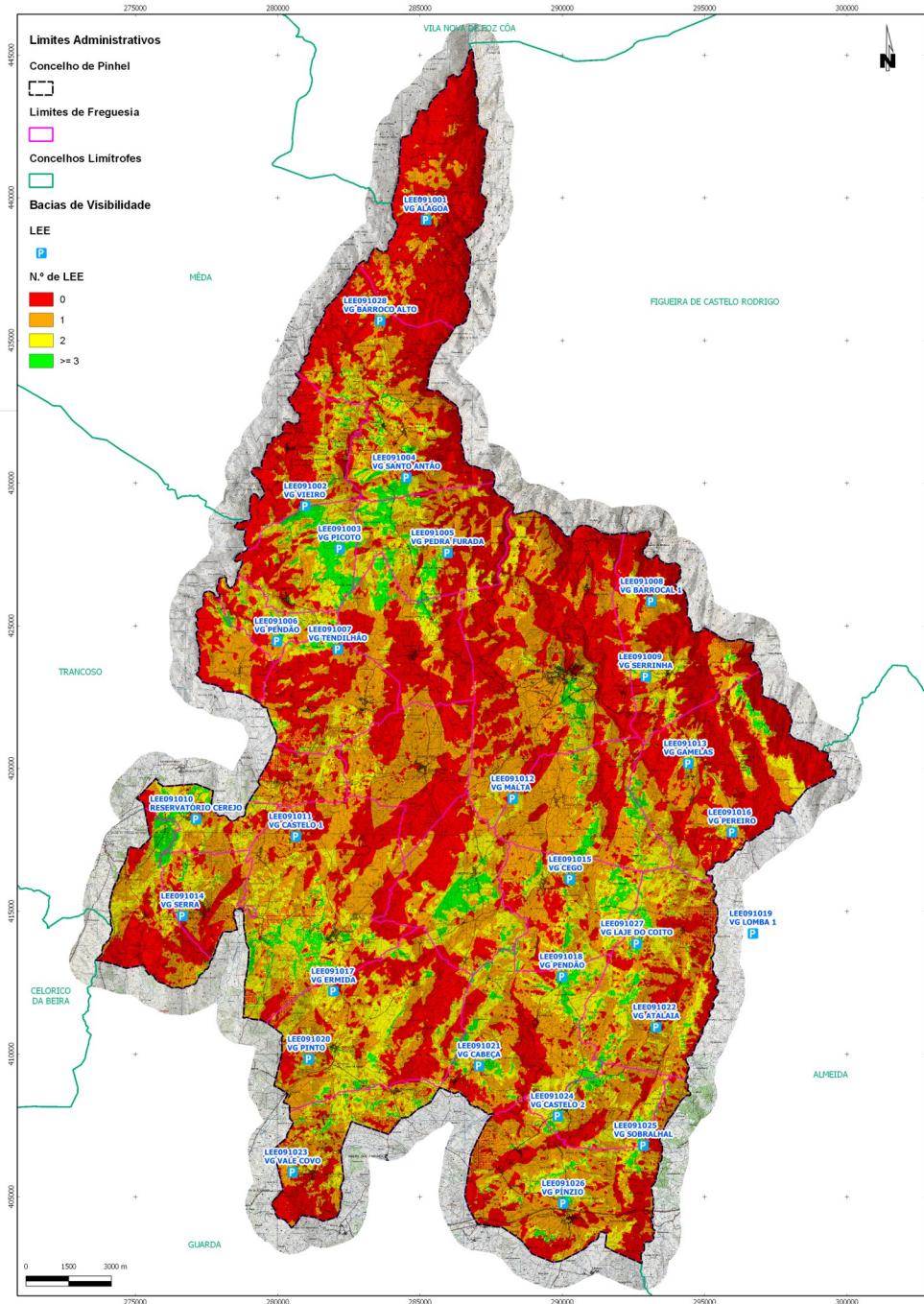
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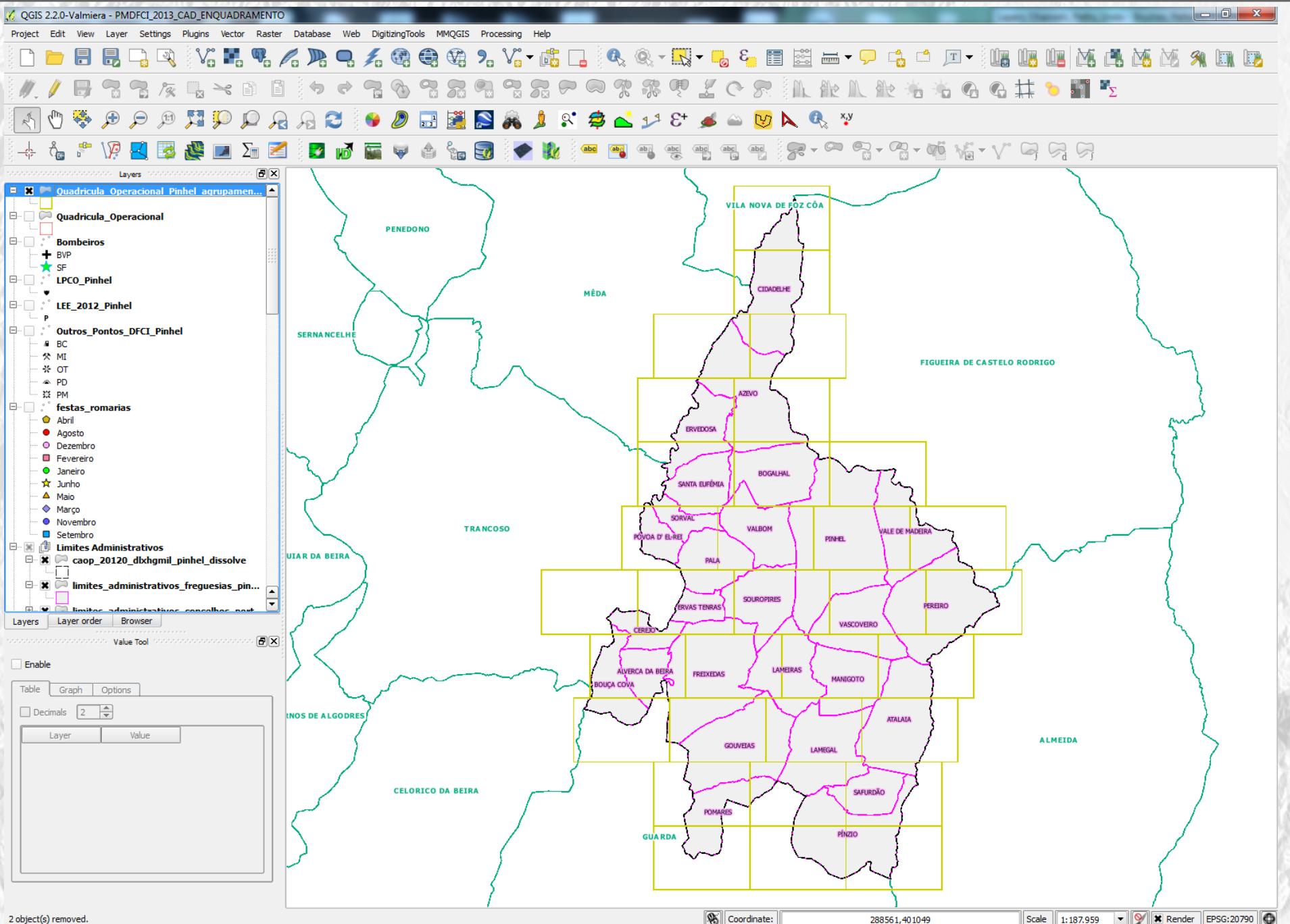
# Plano Municipal de Defesa da Floresta Contra Incêndios



# Plano Municipal de Defesa da Floresta Contra Incêndios

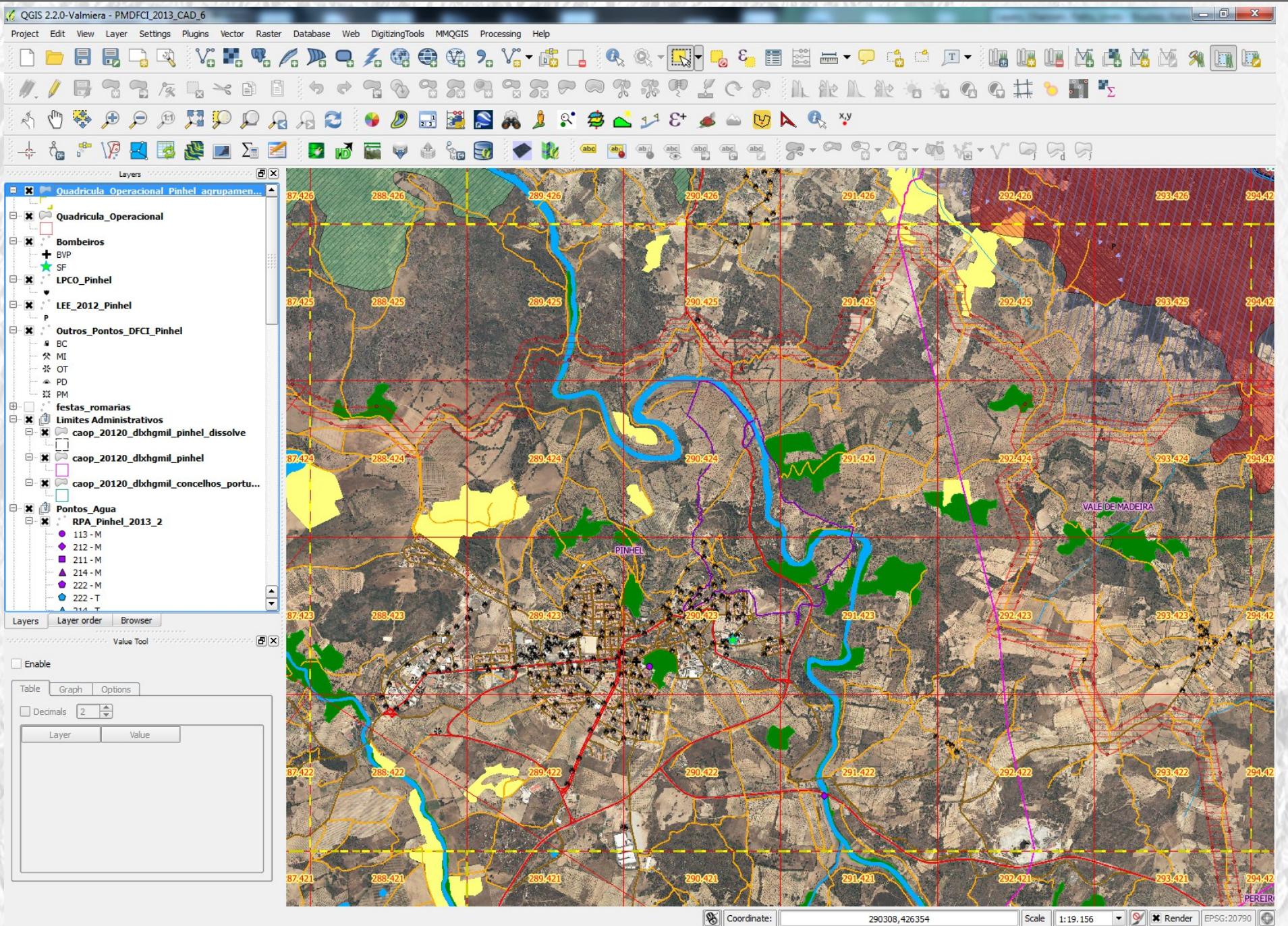


# Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)

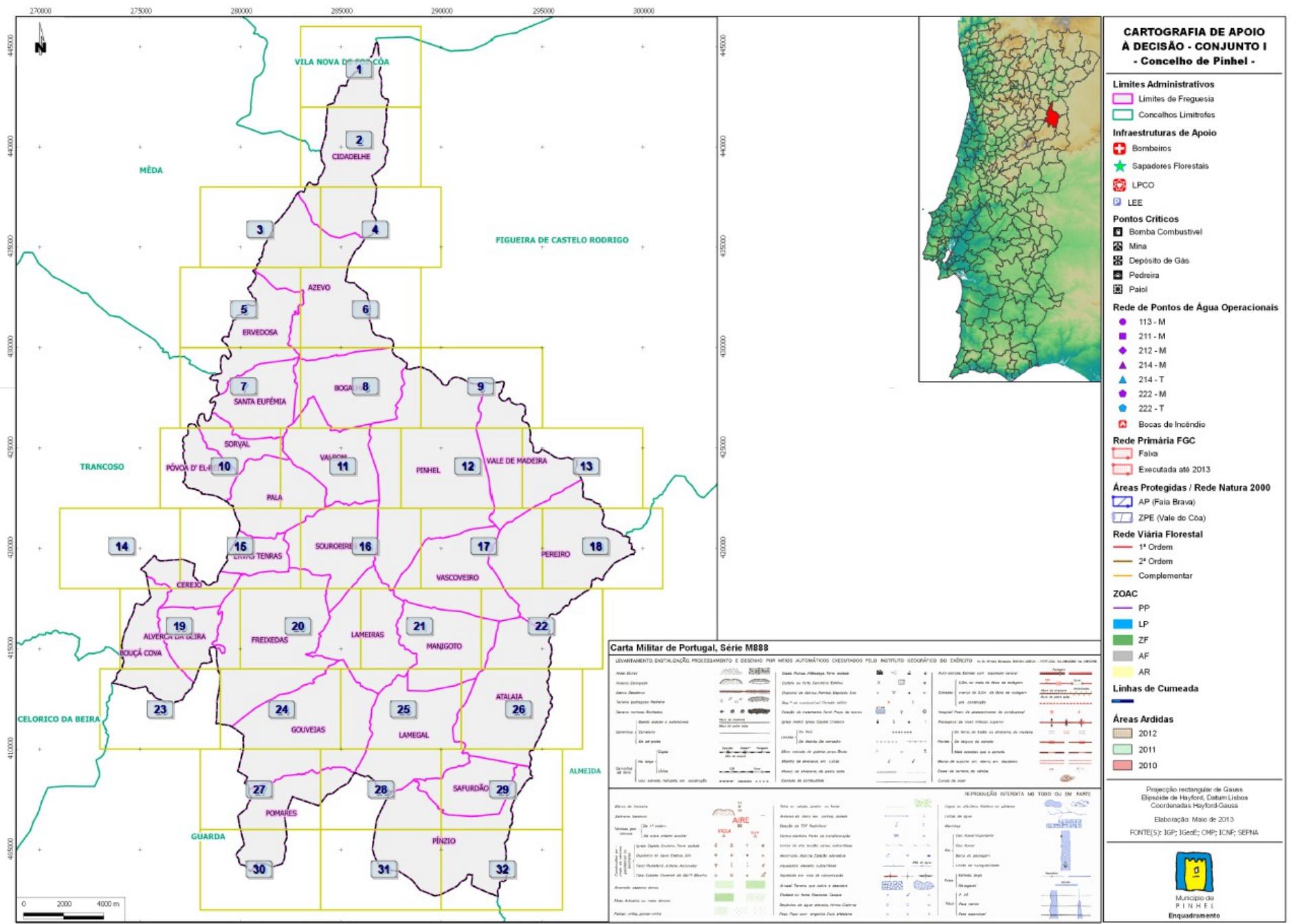


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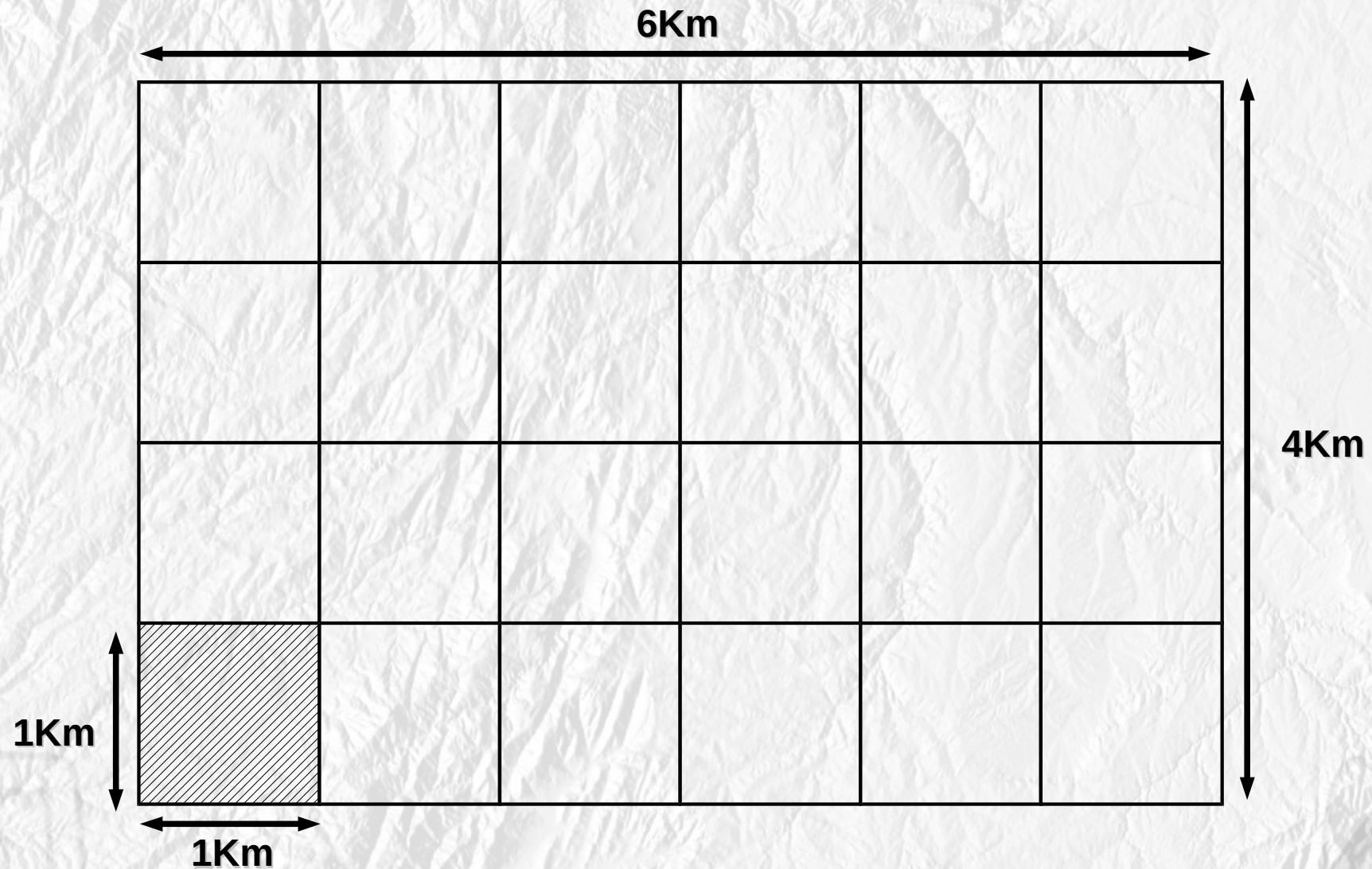
# Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)



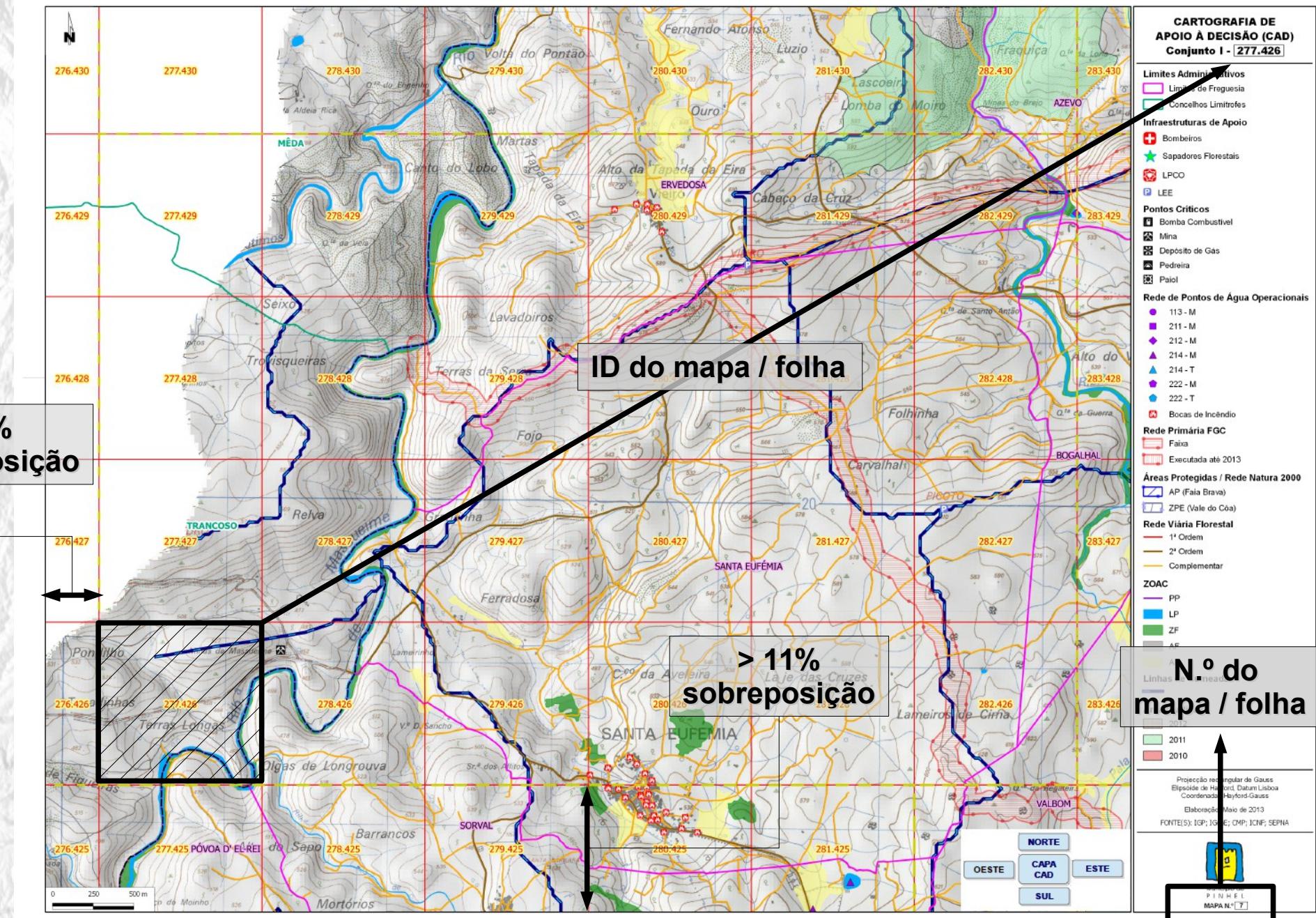
# **Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)**



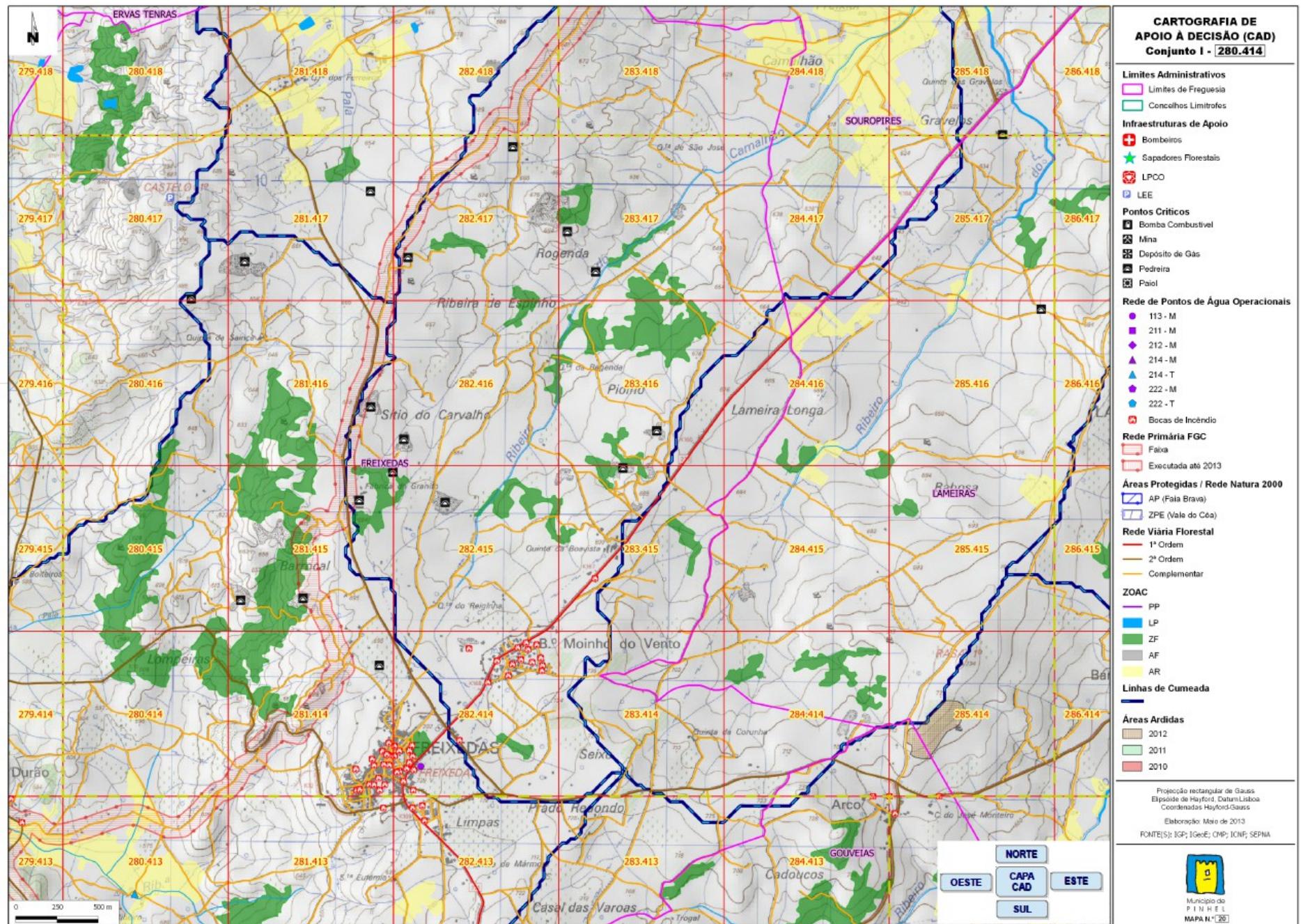
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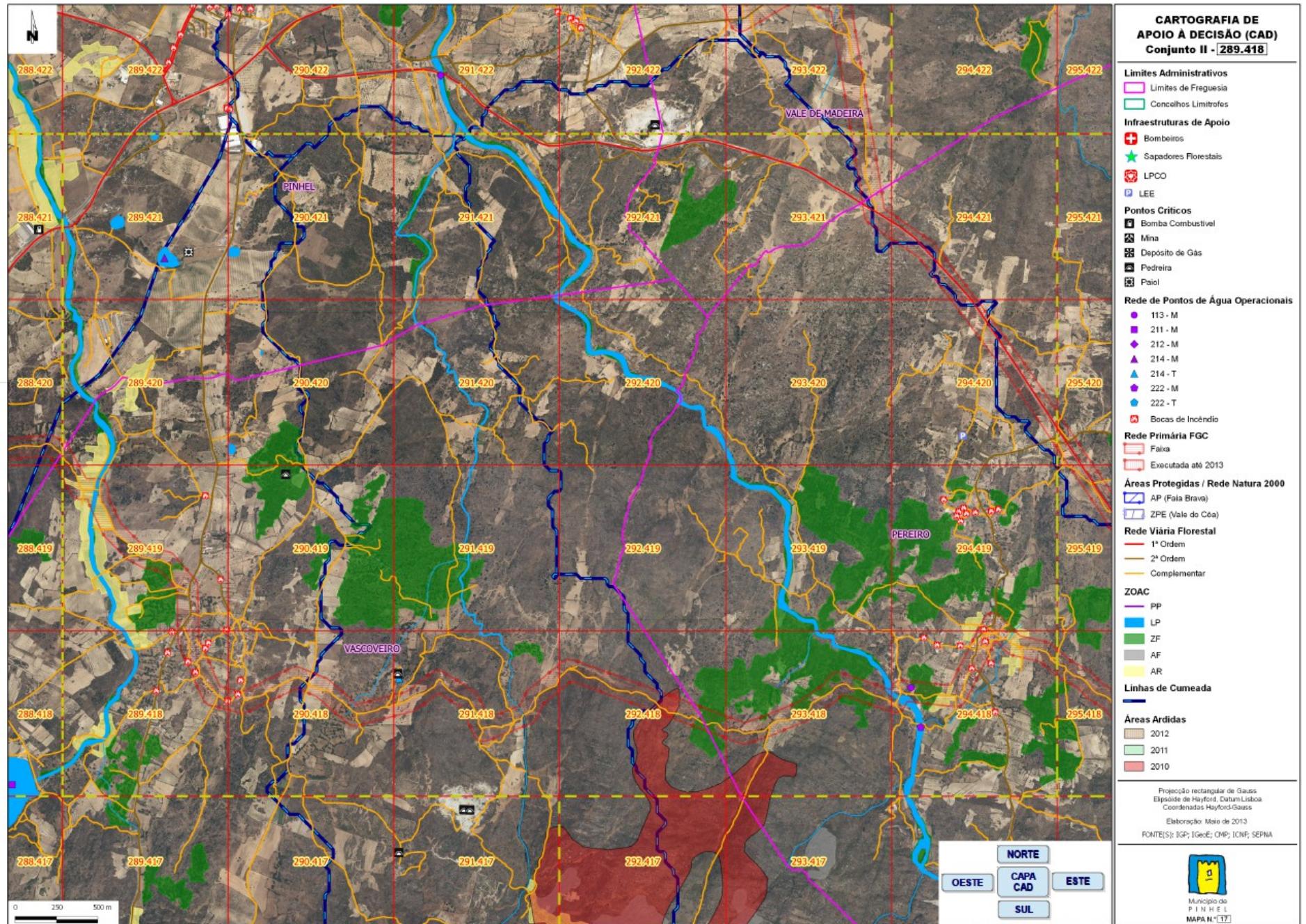
# Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)



# Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)



# Plano Operacional Municipal – Cartografia de Apoio à Decisão (CAD)



# Contributos para o Projecto QGIS

## Cartografia de Risco de Incêndio Florestal com Software Open Source

- Elaboração e Disponibilização -

Aplicação ao Concelho de Pinhel - Portugal

<http://goo.gl/TSv2E>



Pedro Nuno Gomes Venâncio

Setembro 2010

# Contributos para o Projecto QGIS



# **Contributos para o Projecto QGIS**

---

- Divulgação:
  - **4as Jornadas de Software Aberto para Sistemas de Informação Geográfica - Guimarães - 2 Novembro 2011;**
  - **III Encontro de Sistemas de Informação Geográfica - Escola Superior Agrária do Instituto Politécnico de Castelo Branco - 18 Maio 2012;**
  - **I Encontro Nacional de Serviços Municipais de Protecção Civil (PCM 2012) - Póvoa de Varzim - 28 Setembro 2012;**
  - **QGIS and Forest Fire Risk Mapping in Portugal. QGIS Case Study, 2012;**
  - **Portugal's municipalities increasingly use open source for geoinformation. Open source observatory - Joinup, European Commission, 2013**

# Contributos para o Projecto QGIS

- Testing e bug reporting;

Página Inicial Página Pessoal Projetos Ajuda

Ligado como PedroNGV Minha conta Sair

Procurar  Ir para o projeto...

**QGIS » QGIS Application**

Visão geral Atividade Roadmap Tarefas Nova tarefa Wiki Repositório

Tarefas

Filtros

Opções

Aplicar Limpar Guardar

#	Tipo	Estado	Prioridade	Assunto	Autor	Atribuído a	Alterado
10164	Bug report	Open	Blocker	QGIS master crashes on zoom in / zoom out	Pedro Venâncio		Sábado, 03 de Maio de 2014, 16:58h
9614	Bug report	Open	Normal	Datum transformation dialog box does not appear with EPSG 20790	Pedro Venâncio		Sexta, 21 de Fevereiro de 2014, 00:43h
9472	Feature request	Open	Normal	Join adjacent lines	Pedro Venâncio	Victor Olaya	Sexta, 31 de Janeiro de 2014, 14:43h
9469	Feature request	Open	Normal	Split lines with points layer	Pedro Venâncio	Victor Olaya	Sexta, 31 de Janeiro de 2014, 12:05h
8853	Bug report	Open	High	Parameter "-iGRIDS" is not passed in SAGA "Grid Calculator", but just in the modeler	Pedro Venâncio	Victor Olaya	Sexta, 16 de Outubro de 2013, 15:48h
8784	Feature request	Open	Normal	Set Drag and Drop Forms windows size	Pedro Venâncio		Domingo, 06 de Outubro de 2013, 23:02h
8783	Feature request	Open	Normal	Create different paths / choices in Modeler	Pedro Venâncio	Victor Olaya	Domingo, 06 de Outubro de 2013, 17:35h
8778	Feature request	Open	Normal	Drop-down list as input parameter	Pedro Venâncio	Victor Olaya	Quarta, 09 de Outubro de 2013, 16:32h
8777	Feature request	Open	Normal	Improvements for Split Vector Layer by Attribute alg	Pedro Venâncio	Victor Olaya	Quarta, 09 de Outubro de 2013, 16:34h
8772	Bug report	Open	Blocker	Deactivating a module in Modeler has no effect after the save and close of the model	Pedro Venâncio	Victor Olaya	Sexta, 17 de Outubro de 2013, 09:30h
8761	Bug report	Closed	Normal	Using SAGA modules in Modeler	Pedro Venâncio	Victor Olaya	Sexta, 03 de Outubro de 2013, 17:21h
8751	Bug report	Closed	High	v.extract output problem	Pedro Venâncio	Victor Olaya	Domingo, 13 de Outubro de 2013, 08:57h
8742	Bug report	Feedback	Normal	Reproject layer does not work with custom CRS	Pedro Venâncio		Quinta, 03 de Outubro de 2013, 11:03h
8740	Bug report	Open	Low	Using clip tool on a particular vector fails in sextante	Pedro Venâncio	Victor Olaya	Quarta, 02 de Outubro de 2013, 12:39h
8561	Bug report	Closed	Blocker	Node tool does not work well when change the active layer	Pedro Venâncio		Terça, 03 de Setembro de 2013, 22:36h
8385	Bug report	Closed	Normal	QGIS does not deal with shapefiles with two fields with the same name	Pedro Venâncio		Terça, 01 de Outubro de 2013, 14:12h
8371	Bug report	Closed	Normal	Change of the layer CRS not immediately applied on canvas	Pedro Venâncio		Domingo, 15 de Setembro de 2013, 11:21h
8367	Bug report	Closed	Normal	"missing font text" red message on layer labeling settings	Pedro Venâncio	Larry Shaffer	Sexta, 31 de Janeiro de 2014, 18:51h
8366	Bug report	Closed	Blocker	DB Manager error with retrieve columns from SQL Window	Pedro Venâncio		Sexta, 29 de Julho de 2013, 02:42h
8309	Bug report	Open	Normal	Add to Overview from the Layer menu is not working	Pedro Venâncio		Sexta, 31 de Janeiro de 2014, 07:40h
8298	Bug report	Closed	Normal	CRS change with recently used CRS makes no effect in the first choice	Pedro Venâncio	Tim Sutton	Sexta, 31 de Março de 2014, 06:03h
8297	Bug report	Closed	Normal	Clear a filter created with advanced filter causes a parsing error in the attribute table	Pedro Venâncio		Terça, 16 de Julho de 2013, 06:52h
8096	Bug report	Closed	Blocker	Show all layers / Hide all layers problem on Canvas	Pedro Venâncio		Terça, 16 de Julho de 2013, 06:53h
8095	Bug report	Closed	Blocker	Topology checker crashes qgis when clicking on "new project" or when reading a previously checked vector	Pedro Venâncio		Sexta, 05 de Julho de 2013, 10:16h
7972	Bug report	Closed	Normal	SAGA RGB Composite	Pedro Venâncio	Victor Olaya	Domingo, 20 de Outubro de 2013, 16:38h
7860	Bug report	Closed	High	SAGA Contour lines from grid	Pedro Venâncio	Victor Olaya	Domingo, 29 de Setembro de 2013, 22:55h
7767	Bug report	Closed	Blocker	Modeler Edit model help - KeyError: 'ALG_DESC'	Pedro Venâncio	Victor Olaya	Domingo, 19 de Maio de 2013, 10:24h
7616	Bug report	Closed	Normal	Select is slower if canvas show a lot of features	Pedro Venâncio		Domingo, 28 de Abril de 2013, 22:12h
7612	Bug report	Closed	Blocker	Crash with "Save as.." option	Pedro Venâncio		Domingo, 28 de Abril de 2013, 16:42h
7598	Bug report	Closed	Blocker	CRS info on the lower right corner does not show anymore	Pedro Venâncio		Quarta, 29 de Maio de 2013, 10:52h
7597	Bug report	Closed	Blocker	Sort attribute table - words with accent marks	Pedro Venâncio		Sexta, 15 de Abril de 2013, 20:19h
7585	Bug report	Closed	Normal	"Unable to add algorithm" warning	Pedro Venâncio	Victor Olaya	Sexta, 17 de Outubro de 2013, 09:51h
7566	Bug report	Closed	Blocker	Advanced Python field calculator / FieldPyculator errors	Pedro Venâncio		Sexta, 11 de Abril de 2013, 20:07h
6919	Bug report	Closed	Blocker	SAGA - Polygon dissolve 'all polygons'	Pedro Venâncio	Victor Olaya	Sexta, 28 de Agosto de 2013, 17:10h
6918	Bug report	Reopened	High	qgis:dissolve - "dissolve all" does not dissolve attributes	Pedro Venâncio	Victor Olaya	Sexta, 15 de Outubro de 2013, 16:46h
6917	Bug report	Closed	Blocker	QgsMapLayerRegistry object has no attribute addMapLayer - API cleanup	Pedro Venâncio		Sexta, 24 de Dezembro de 2012, 15:29h
6914	Bug report	Closed	Blocker	QgsRasterLayer object has no attribute usesProvider - API cleanup	Pedro Venâncio		Sexta, 24 de Dezembro de 2012, 15:29h
6894	Feature request	Open	High	GRASS r.mapcalc	Pedro Venâncio	Victor Olaya	Sexta, 17 de Abril de 2014, 14:13h
6893	Feature request	Open	High	GRASS r.null	Pedro Venâncio	Victor Olaya	Sexta, 19 de Julho de 2013, 16:18h
6886	Bug report	Closed	Normal	r.fillnull - "method" parameter not valid	Pedro Venâncio	Victor Olaya	Sexta, 11 de Abril de 2013, 21:03h
6885	Feature request	Open	Normal	Modeler - retain parameter values when editing	Pedro Venâncio		Sexta, 17 de Dezembro de 2012, 23:22h
6882	Bug report	Closed	Normal	MMQGIS tools with threaded mode activated	Pedro Venâncio	Victor Olaya	Sexta, 20 de Dezembro de 2012, 15:41h
6873	Bug report	Feedback	Normal	Problem with data stored in the root of disk	Pedro Venâncio	Victor Olaya	Sexta, 13 de Dezembro de 2012, 18:14h
6866	Bug report	Closed	Normal	New drag and drop designer	Pedro Venâncio	Matthias Kuhn	Terça, 08 de Janeiro de 2013, 07:53h
6865	Bug report	Closed	Blocker	Problem with Identity tool after dissolve	Pedro Venâncio		Domingo, 23 de Dezembro de 2012, 21:41h
6832	Bug report	Closed	Normal	Empty path when saving to file	Pedro Venâncio	Victor Olaya	Domingo, 15 de Setembro de 2013, 21:55h
6640	Bug report	Closed	Blocker	Problem with round function of the expression builder	Pedro Venâncio	Nathan Woodrow	Domingo, 07 de Abril de 2013, 21:15h
6571	Bug report	Closed	Normal	Parameter set always to default value when editing a tool in modeler	Pedro Venâncio	Victor Olaya	Domingo, 09 de Dezembro de 2012, 13:06h
6442	Bug report	Closed	Normal	v.dissolve error under windows	Pedro Venâncio	Victor Olaya	Domingo, 09 de Dezembro de 2012, 11:36h
6379	Bug report	Feedback	High	r.quantile does not generate any results	Pedro Venâncio	Victor Olaya	Sexta, 28 de Agosto de 2013, 13:07h
6377	Feature request	Open	Normal	r.reclass path to reclass rules within modeler	Pedro Venâncio	Victor Olaya	Domingo, 10 de Março de 2013, 11:08h
6376	Bug report	Closed	Normal	SAGA - Reclassify Grid Values	Pedro Venâncio	Victor Olaya	Domingo, 09 de Dezembro de 2012, 12:49h
6374	Bug report	Closed	Normal	Field Pyculator within modeler	Pedro Venâncio	Victor Olaya	Sexta, 03 de Outubro de 2013, 14:46h
6372	Feature request	Closed	Normal	r.mapcalculator	Pedro Venâncio	Victor Olaya	Sexta, 17 de Outubro de 2013, 07:28h
6367	Bug report	Closed	Normal	Merge Shapes Layers within modeler	Pedro Venâncio	Victor Olaya	Domingo, 14 de Outubro de 2012, 22:20h
6363	Bug report	Closed	Normal	MMQGIS Select tool within Modeler	Pedro Venâncio	Victor Olaya	Sexta, 02 de Outubro de 2013, 19:56h
6362	Bug report	Closed	Normal	Error saving a model with Select by location tool	Pedro Venâncio	Victor Olaya	Domingo, 14 de Outubro de 2012, 21:52h
6357	Bug report	Closed	Normal	SAGA - Split Shapes by Attribute	Pedro Venâncio	Victor Olaya	Sábado, 05 de Outubro de 2013, 19:34h
6227	Bug report	Closed	Normal	Number Parameter - Min/Max values	Pedro Venâncio	Victor Olaya	Domingo, 16 de Dezembro de 2012, 23:08h
6221	Bug report	Closed	Normal	Problems with Tools	Pedro Venâncio		Sexta, 20 de Agosto de 2012, 11:41h
6167	Bug report	Closed	Normal	Enter number or expression dialog box	Pedro Venâncio	Victor Olaya	Sexta, 08 de Agosto de 2012, 21:28h
6148	Feature request	Closed	Normal	Field Pyculator	Pedro Venâncio	Victor Olaya	Sexta, 07 de Agosto de 2012, 00:58h
6141	Bug report	Closed	Normal	global name 'false' is not defined error with all models	Pedro Venâncio	Victor Olaya	Sexta, 02 de Agosto de 2012, 10:17h
6137	Bug report	Closed	Normal	mngm - non-ascii characters problem	Pedro Venâncio	Victor Olaya	Sexta, 01 de Agosto de 2012, 11:12h
6126	Bug report	Closed	Normal	GRASS v.extract	Pedro Venâncio	Victor Olaya	Sábado, 12 de Outubro de 2013, 20:56h
6067	Bug report	Rejected	Normal	v.to.rast.value "mask"	Pedro Venâncio	Victor Olaya	Sexta, 20 de Julho de 2012, 08:18h
6066	Bug report	Feedback	Normal	v.surf.xxx - Name of input vector map	Pedro Venâncio	Victor Olaya	Domingo, 27 de Janeiro de 2013, 14:58h
6058	Bug report	Open	High	GPS Tools freeze QGIS	Pedro Venâncio	Victor Olaya	Sexta, 31 de Janeiro de 2014, 07:43h
5534	Bug report	Closed	Normal	Couldn't load plugin 'sextante' from...	Pedro Venâncio	Victor Olaya	Domingo, 29 de Setembro de 2013, 12:22h
5529	Bug report	Closed	Low	Python error when using non-ascii characters on the search toolbox field	Pedro Venâncio	Victor Olaya	Sábado, 02 de Junho de 2012, 12:07h
3516	Bug report	Closed	Normal	RGB problem - build 1.7.0-73	Pedro Venâncio	nobody -	Sexta, 11 de Maio de 2012, 08:35h
							Quarta, 27 de Abril de 2011, 11:54h

Tarefas

Ver todas as tarefas  
Sumário

Consultas personalizadas

Active Tickets assinados por mim  
Active Tickets reported by me  
Active Tickets Version 2.1.0  
Active Tickets Version 2.2.0  
Blocking grouped  
Blocking issues  
Easy tickets (Issues to get started on if you're new)  
Outstanding issues  
Patch supplied  
Processing (SEXTANTE) bugs  
This weeks updates

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<http://hub.qgis.org/projects/quantum-gis/issues>

# Contributos para o Projecto QGIS

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- Participação nas mailing lists:
  - QGIS-pt;
  - Qgis-user;
  - Qgis-developer;
  - OSGeo Portuguese Local Chapter;
  - AMCB.
- Grupo de Utilizadores QGIS PT
  - <http://qgis.pt/#objectivos-grupo>



# **2º Encontro de Utilizadores QGIS Portugal**

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## **QGIS no Município de Pinhel**

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# **Obrigado pela atenção!**

**Pedro Venâncio**

**Coimbra, 2 de Junho de 2014**