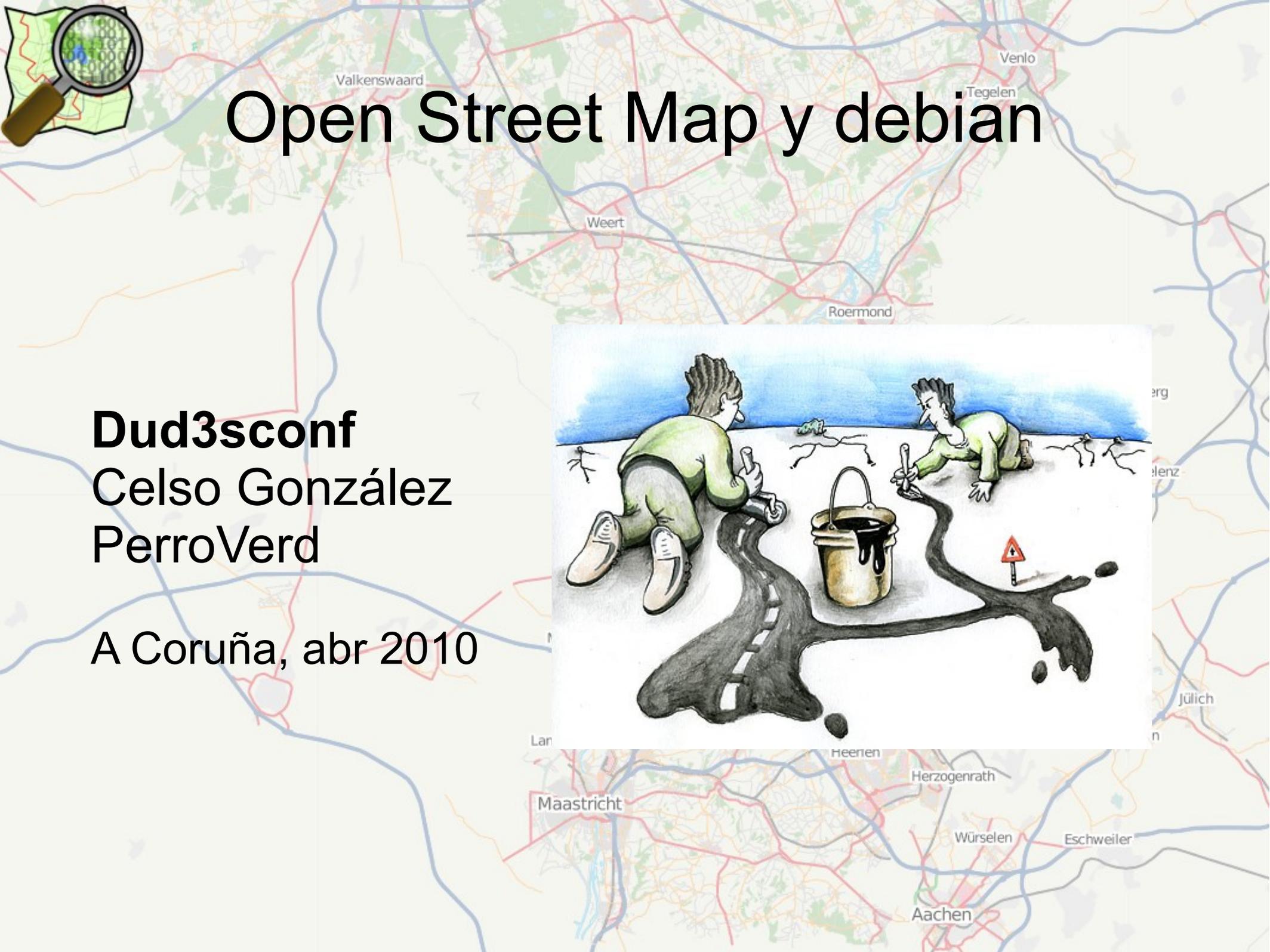




# Open Street Map y debian

**Dud3sconf**  
**Celso González**  
**PerroVerd**

A Coruña, abr 2010





¿Por qué?

Pringado estándar número uno

Interés previo

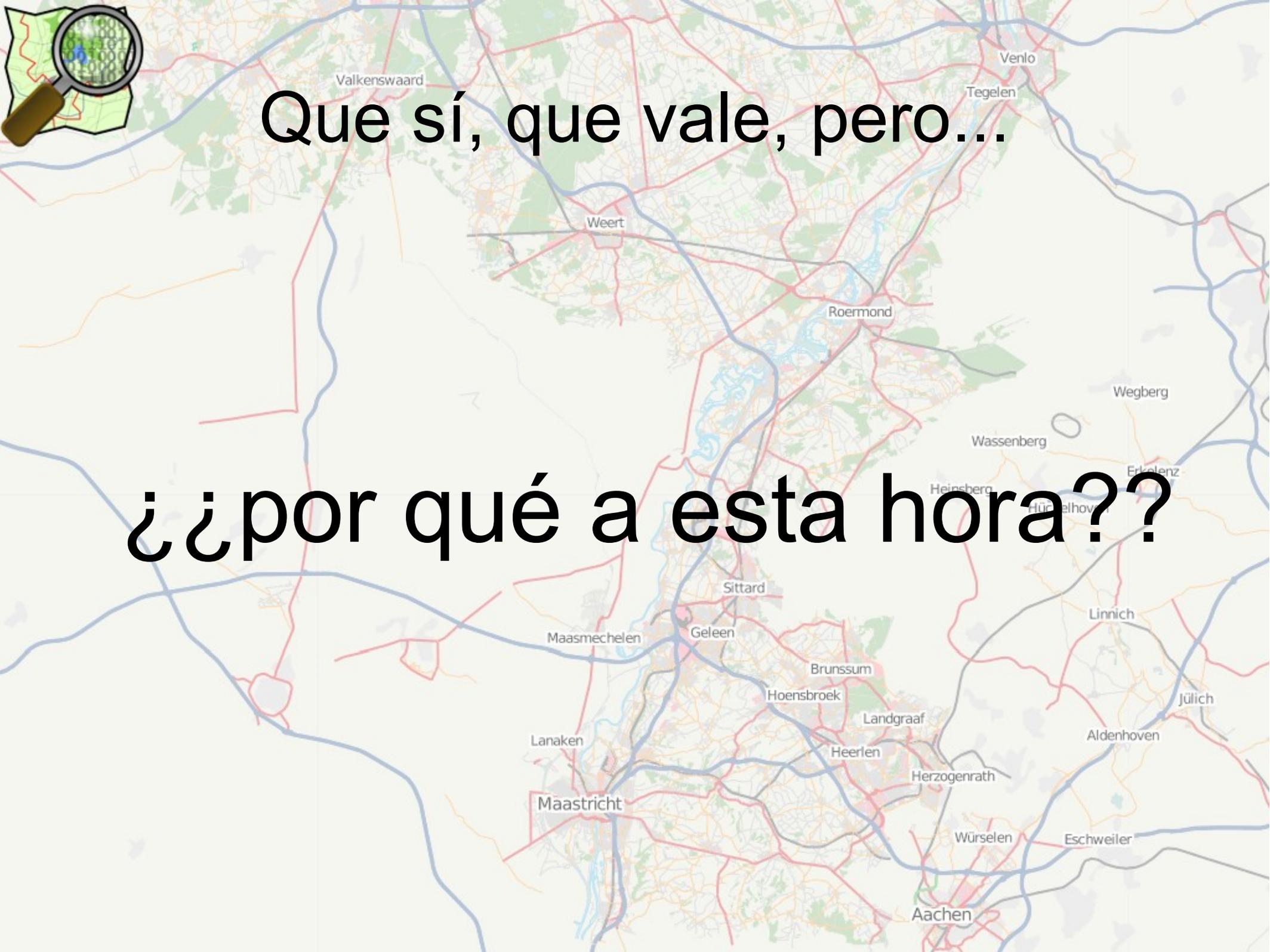
Conceptos libres muy similares

Fuente de software libre



Que sí, que vale, pero...

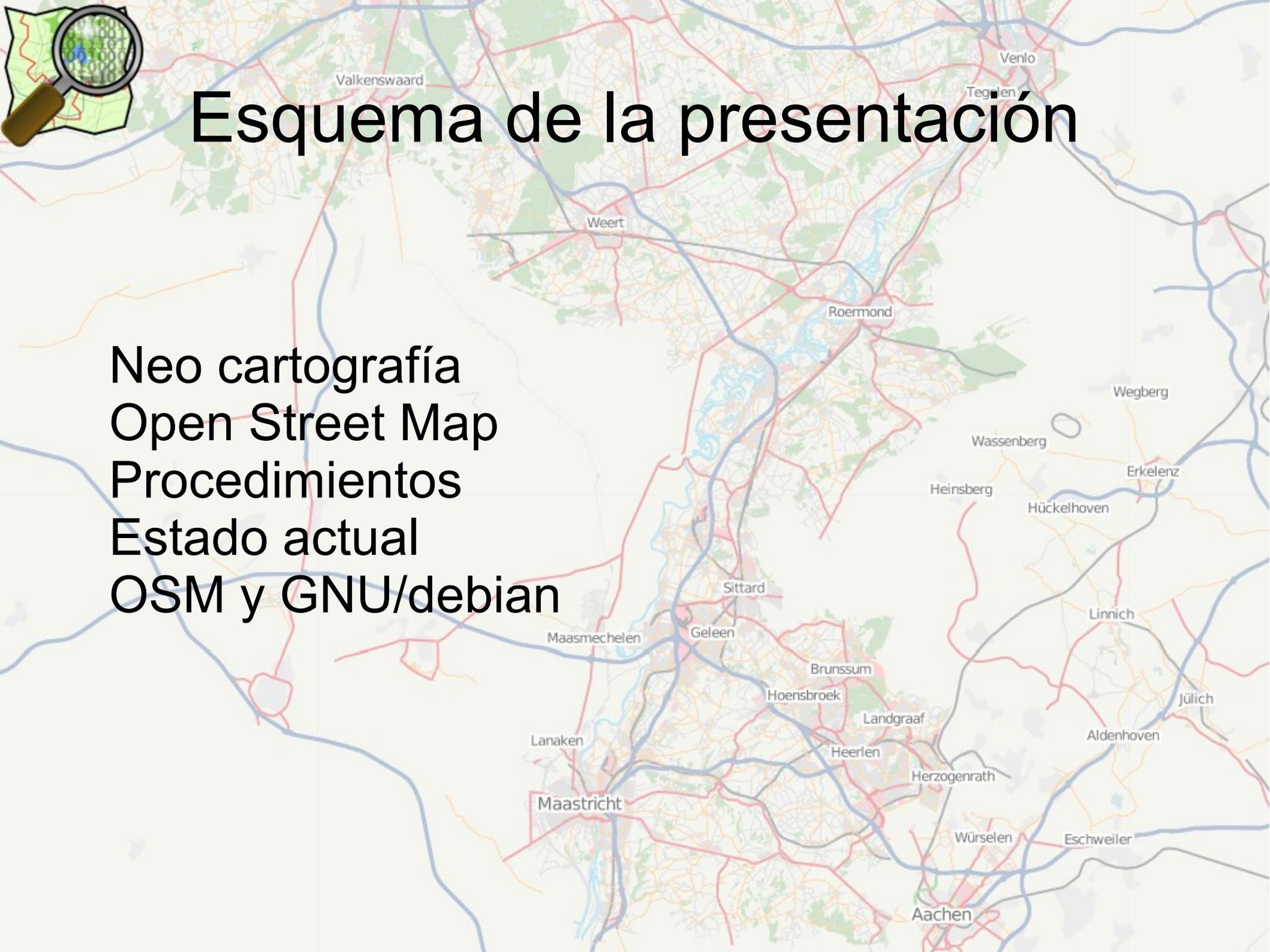
¿¿por qué a esta hora??





# Esquema de la presentación

Neo cartografía  
Open Street Map  
Procedimientos  
Estado actual  
OSM y GNU/debian





# Mash ups Mapa + chinchetas



OpenStreetMap

Bloquear



**Join!**

**Martijn van Exel**  
Van Bossestraat, Amsterdam,  
Amsterdam (Noord-Holland),  
Netherlands

Map viewed 2 times!

United Kingdom  
Ireland  
Polen  
Polska  
Belarus  
Ukraine  
Ukraina  
Kazakhstan  
Uzbekistan  
Turkmenistan  
Afghanistan  
Türkiye  
Turkey  
Greece  
Ελλάς  
Italy  
Italia  
France  
Germany  
Deutschland  
Austria  
Österreich  
Spain  
España  
Portugal  
Syria  
Tunisia

©2006 Google - Map Data ©2006 NAVTEQ, Imagery ©2006 NASA



**Mash-ups = ventajas**





# Datasets inesperados



Where? (e.g. "100 Queens Park", "Bloor and Yonge", "CN Tower") Day arriving Time arriving Staying (hours)

stopfinder

CN Tower

Monday

Search

Destination:  
301 Front Street West

Cheapest lot:  
10 Portland Street (1.50/hr., max \$3.00)

Closest lot:  
200 Front St W (15.00flat, no max)

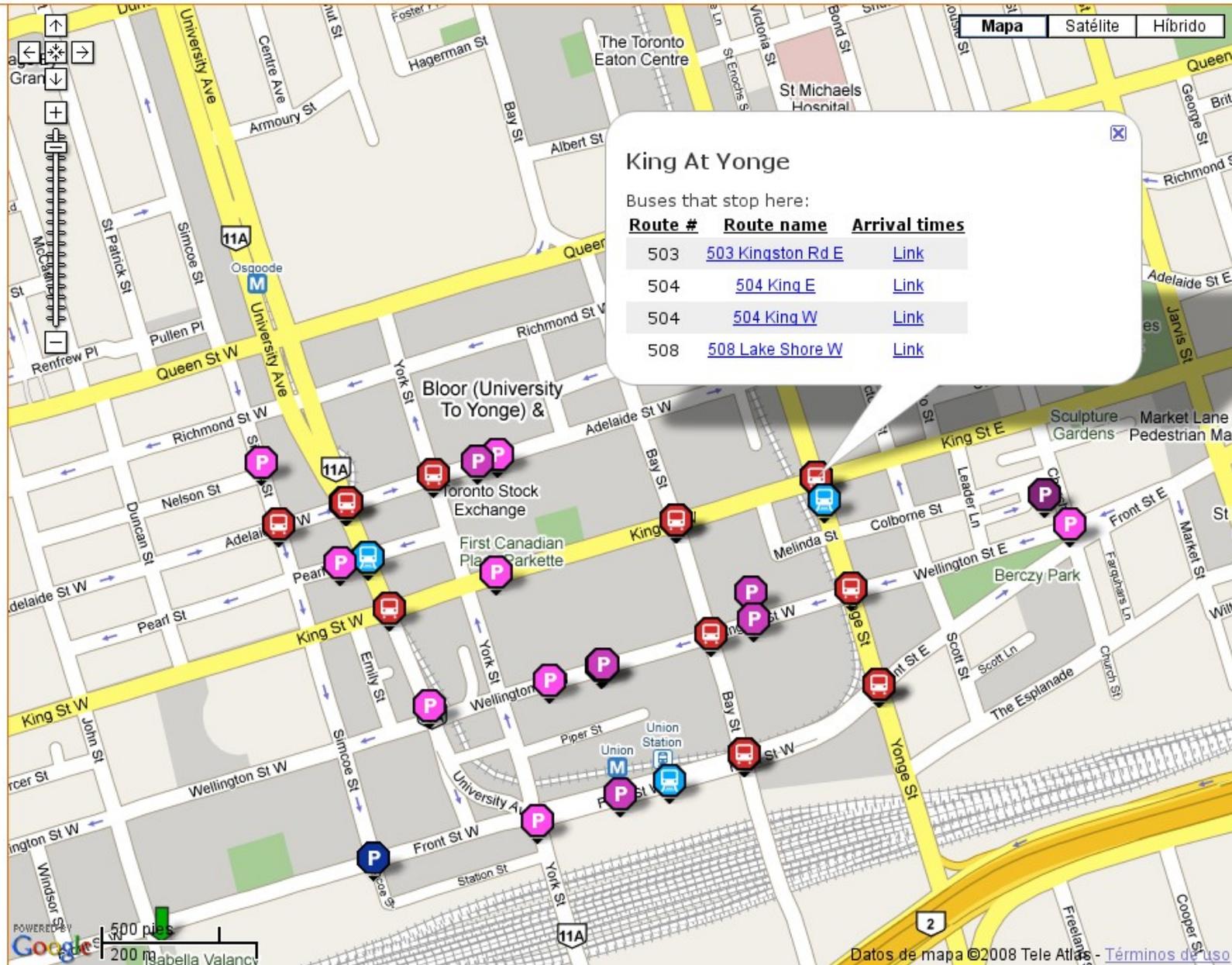
Notes:

- You didn't specify an arrival time, so we guessed 7:30PM.
- You didn't specify how long you are parking for, so we guessed 2.0 hours.

Legend:

- : \$
- : TTC Bus
- : \$\$
- : Subway
- : \$\$\$

- Interested in advertising in this space? [Let us know.](#)





Muy fácil





Valkenswaard

Venlo  
Tegelen

# dudesconf

Last items tagged with **dudesconf**.



[Big map](#) | [Google Earth KML](#) | [OpenStreetMap](#)

**Embed**

```
<iframe scrolling="no" src="http://www.tagzania.com/paste/tag/dudesconf/?n=
```



## Near

- Hotel Maycar**  
nbarrientos
  - Nearest
  - Photos
  - Hotels
  - Users
  - Tags
- Facultad de Informática de la Coruña**  
nbarrientos
- Aeropuerto de A Coruña**  
nbarrientos
- Estación de Autobuses**  
Telf: 981 23.90.99  
Horario: 6:30 horas a 24:30 horas.  
nbarrientos
- Estación de ferrocarril San Cristóbal**  
nbarrientos

Würselen  
Eschweiler  
Aachen



# Democratiza la generación de contenidos

(Chupate esa, Dato)



map satellite hybrid

mapa docu login

Últimas paisaxes

1. Tensando un Tear - Toma 4
2. Tear tecendo liño - Toma 7
3. Tensando un Tear - Toma 3
4. Tear tecendo liño - Toma 6
5. Tensando un Tear - Toma 2
6. Tear tecendo liño - Toma 5
7. Tear tecendo liño - Toma 4
8. Tear tecendo liño - Toma 3
9. Tear tecendo liño - Toma 2
10. Tensando un Tear

EN english ES castellano GL galego

Jesús Otero Seoane dende Quiroga

Ambiente de domingo pola tarde na rúa principal de Quiroga.



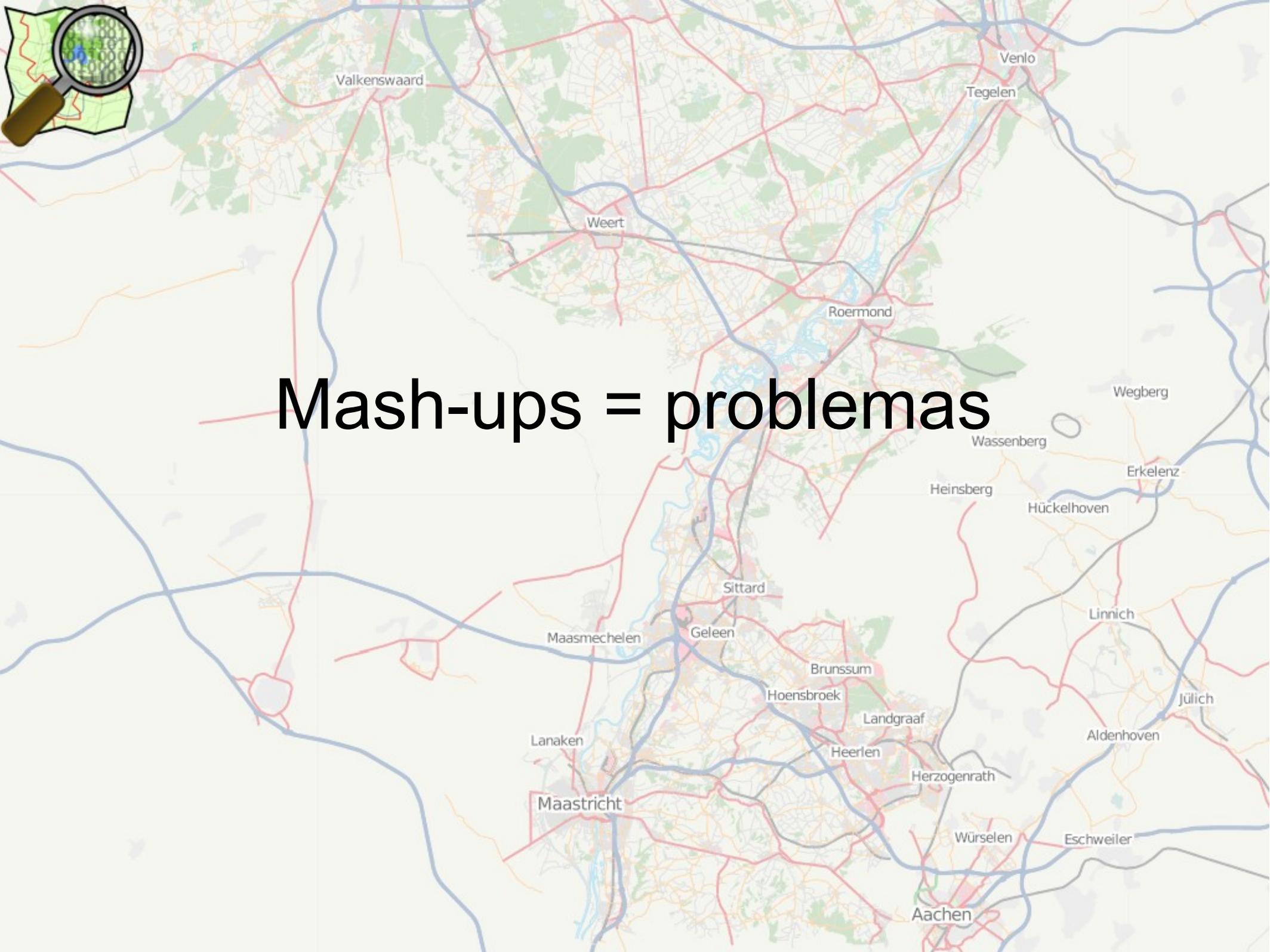
2007-10-30T00:00:00Z, por Jesús Otero Seoane



“Gratis”



**Mash-ups = problemas**





No se pueden quitar  
datos



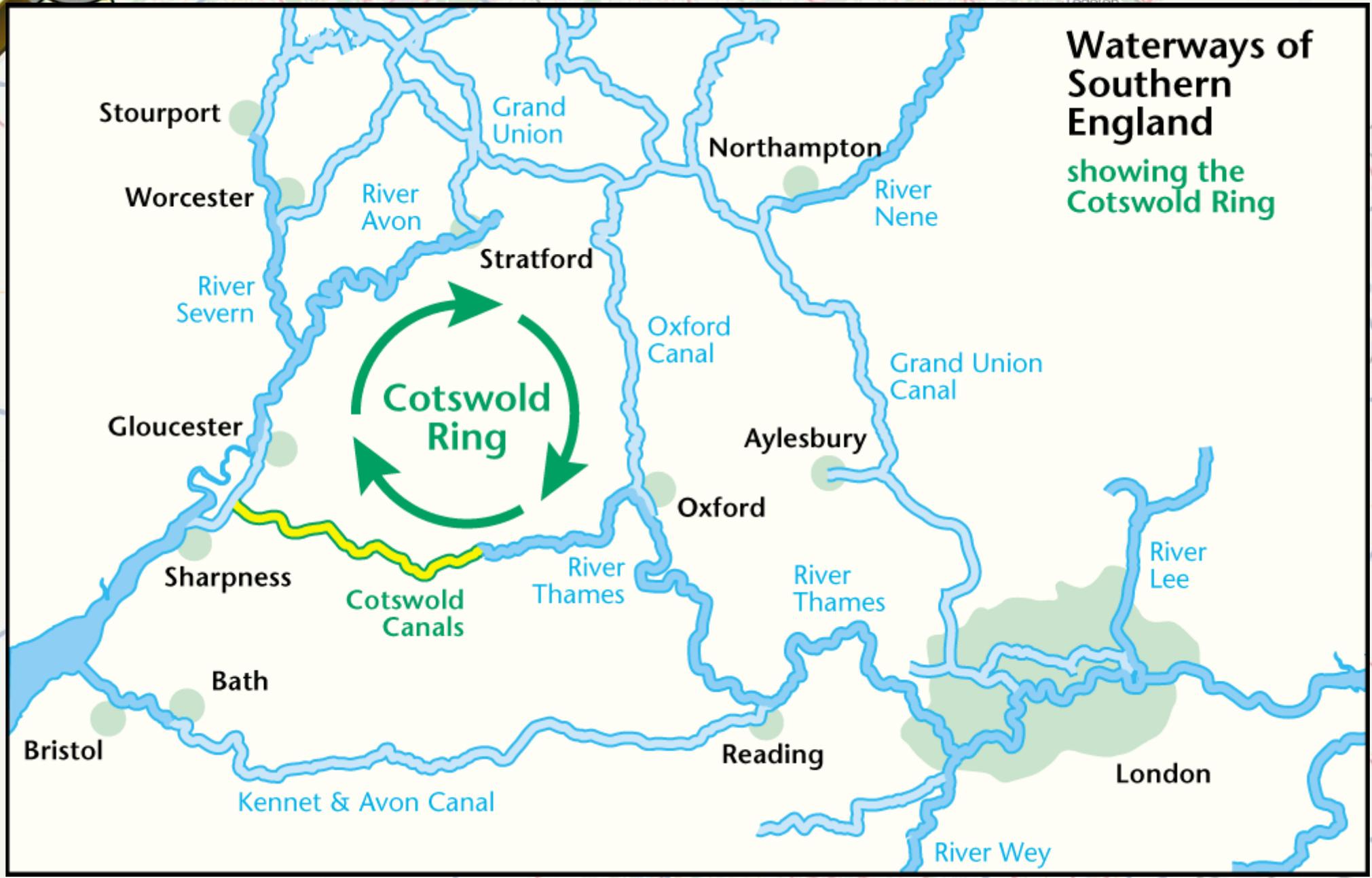


Valkenswaard

Venlo

# Waterways of Southern England

showing the Cotswold Ring



Aachen

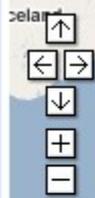


# Demasiado ruido





## Oscar Winning Best Actors and Actresses (1928-2006). Their Birth Cities on Google Maps



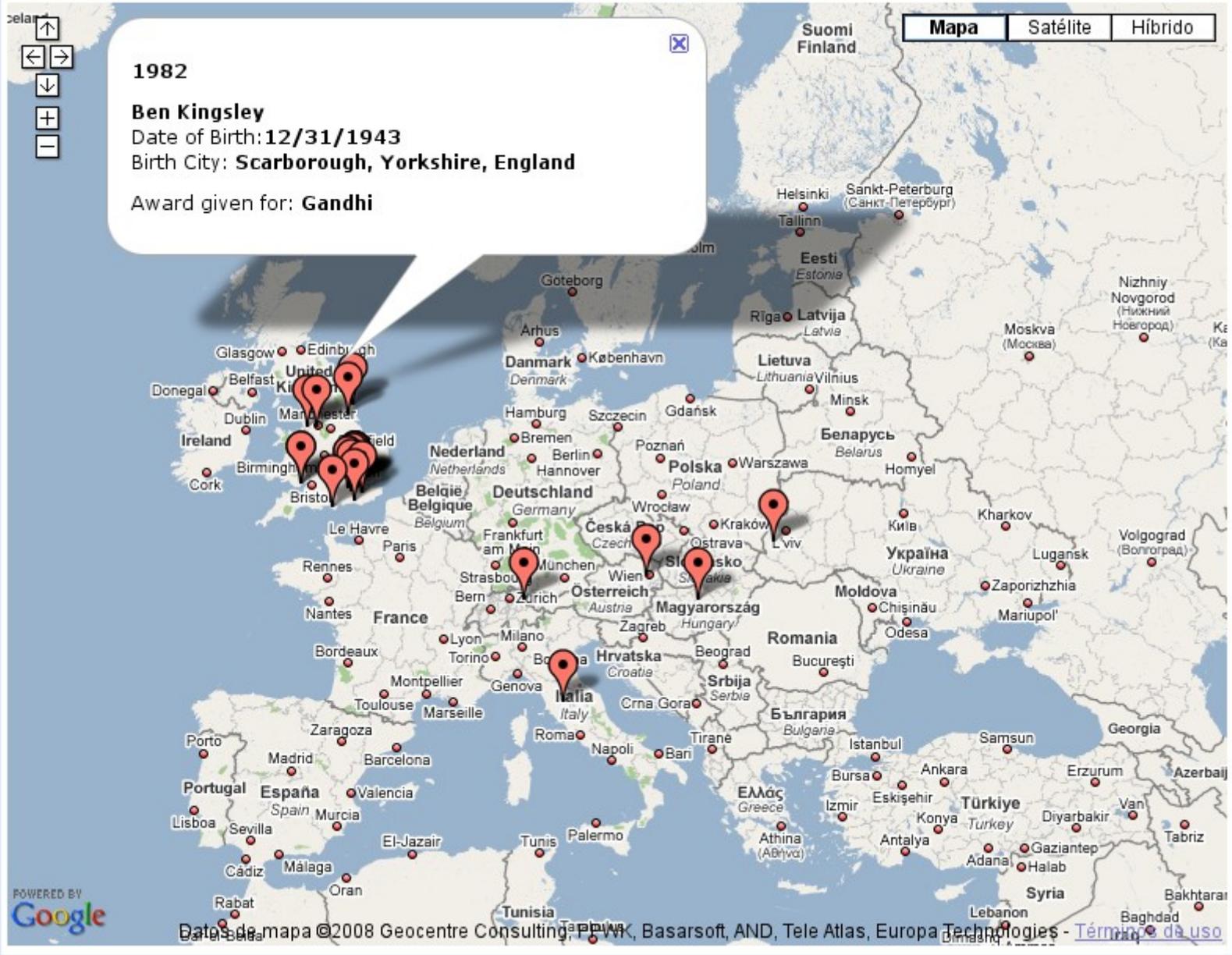
1982

**Ben Kingsley**

Date of Birth: **12/31/1943**

Birth City: **Scarborough, Yorkshire, England**

Award given for: **Gandhi**



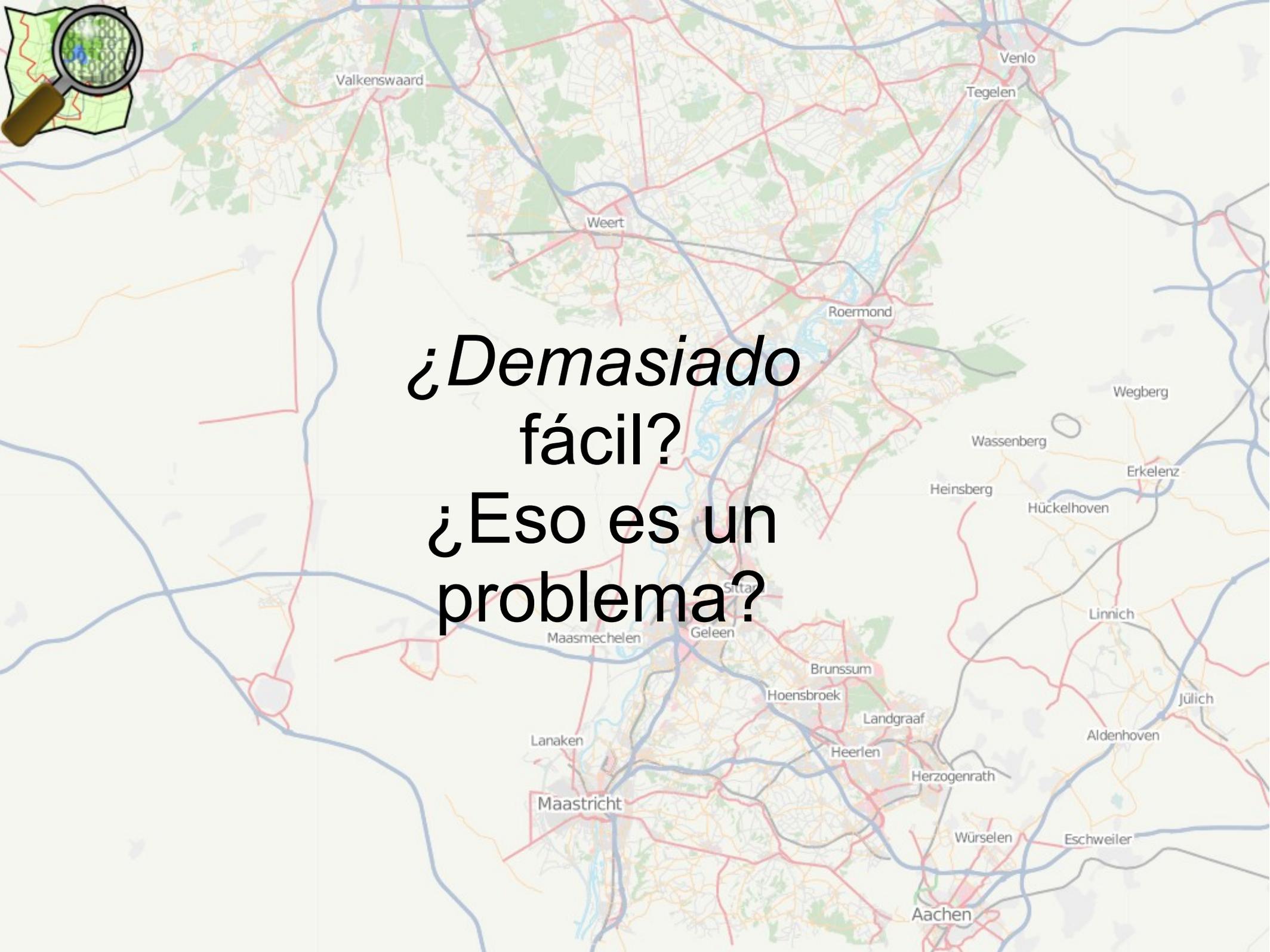


# *Demasiado fácil*





*¿Demasiado  
fácil?  
¿Eso es un  
problema?*





**Aplicaciones de experiencia amateur**

**Quita protagonismo  
a los profesionales**

**“Google maps fatigue”**



GOBIERNO DE ESPAÑA



MINISTERIO DEL INTERIOR

DGT Dirección General de Tráfico

Información de carreteras

Tiempos de recorrido

Mis Consultas

Provincia

Población

Carretera

P.K.

Versión con mapa

Versión sólo texto

Buscar

Incidencias



30.05.2008 /01:05 h.

Total: 6

**A-4 LLUVIA**  
00:33H - 30/05/2008  
SANTA ELENA / METEOROLOGICA / A-4 (245.0 - 292.0)

**A-4 CARRIL INCORPORACION CONOS**  
07:22H - 29/05/2008  
SEVILLA / CONO / A-4 (546.0 - 545.0)

**A-52 AVERIA**  
12:57H - 29/05/2008  
CENLLE / RETENCION / A-52 (243.0 - 243.1)

**AP-2 ACCIDENTE**  
23:15H - 29/05/2008  
CANDASNOS / RETENCION / AP- (90.9 - 91.0)

**N-340 CIRCULACION**  
13:01H - 29/05/2008  
CASTELLON DE LA PLANA / RETENCION / N-340 (981.0 - 982.0)

**A-493 INUNDACIONES**  
20:46H - 23/05/2008

[...Ver todas las incidencias](#)

Opciones  Leyendas

[Ayuda](#) | [Imprimir](#) |  [Añadir a Mis Consultas](#)



POWERED BY Google

Datos de mapa ©2008 Tele Atlas, AND, Europa Technographics - 5 años de uso

Mapa **Híbrida**

info sensores  Cámaras  Paneles  estaciones meteorológicas

Niveles de circulación

Conos  Retenciones  Obras  Puertos  Meteorológicas

NIVEL DE CIRCULACIÓN: ● Interrumpida | ● Difícil | ● Irregular | ● Condicionada

[Ver otras leyendas](#)



# Dependencia del proveedor de la API

Microsoft®  
Virtual Earth™

© 2005 Yahoo! Inc.

POWERED BY  
**Google**

# Dependencia del proveedor de datos

**YAHOO!**

Data © 2005 Navteq and TeleAtlas

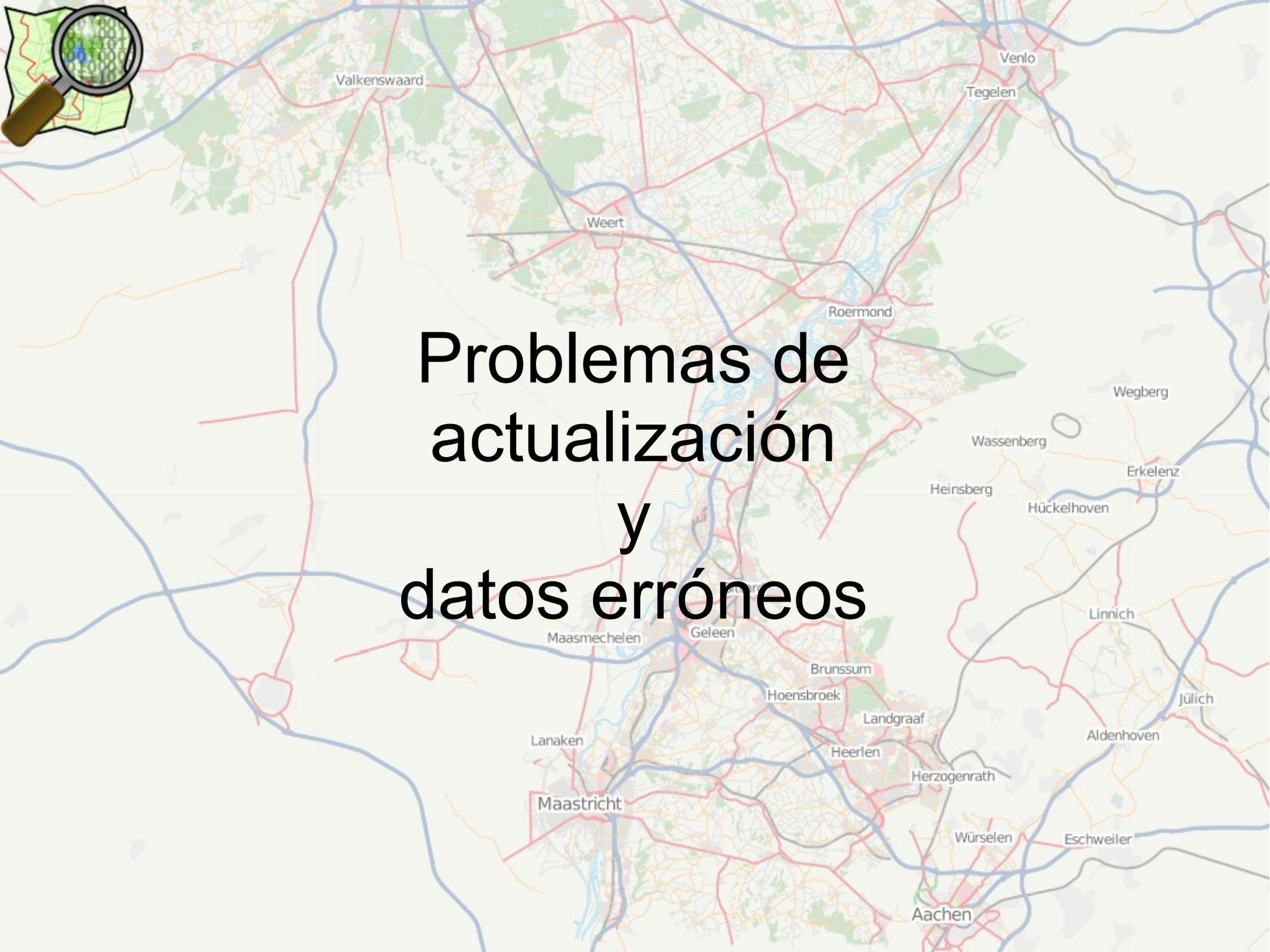
© 2008 Microsoft Corporation © 2008 NAVTEQ

© AND

Imágenes ©2008 TerraMetrics, Datos de mapa ©2008 Tele Atlas, Europa Technologies - [Términos de uso](#)



# Problemas de actualización y datos erróneos



# el mapamóvil

Luistxo bloguea en español



2008/09/19 08:02:06.532 GMT+2

## La N-634, partida por la mitad

La N-634 debe ser una de las carreteras más largas de España, recorriendo, no sin pocas curvas, la cornisa cantábrica. Ayer se cortó. Se partió por la mitad aquí. La nacional hace varias chicanes al pasar por Eibar, pueblo de orografía jodida, y en una de ellas, en la calle Barrenengua, por donde pasa la N-634 en dirección oeste-este, se cayó la carretera al socavón de una obra adyacente (nuevo Corte Inglés en el antiguo solar de la fábrica Alfa).

Un coche quedó suspendido en el socavón. Su ocupante salió ilesa, con susto, pensamos.



Argazkiak.org | [Eibarko istripua.02](#) @ c-c-by-sa: [asarasua](#)

Pero el corte de carretera va a ser chungo. De 2 a 6 meses, he leído hoy en la red. Las chicanes eibarresas deberán ser reconfiguradas, quien sabe cómo para salvar este obstáculo, y difícil va a ser evitar el caos.

### ACERCA DE



Bienvenid@ al [blog de Luistxo](#)

**Fernández**

### ENLACE

[Tagzania](#)

[Ingelesen Hilerria](#)

[The English Cemetery](#)

[CodeSyntax](#)

[Juicio a Egunkaria](#)

[Tagzania Blog](#)

[Tagzania Services](#)

### Cosas por ahí

[Al Tribunal de Estrasburgo](#)

[Un informe para dos congresos de periodismo](#)

[Archivo definitivo de las denuncias de Oleaga y Uria](#)

[Manifiesto de ex-trabajadores de Egin y Egunkaria](#)

[Diez años del cierre de Egin](#)

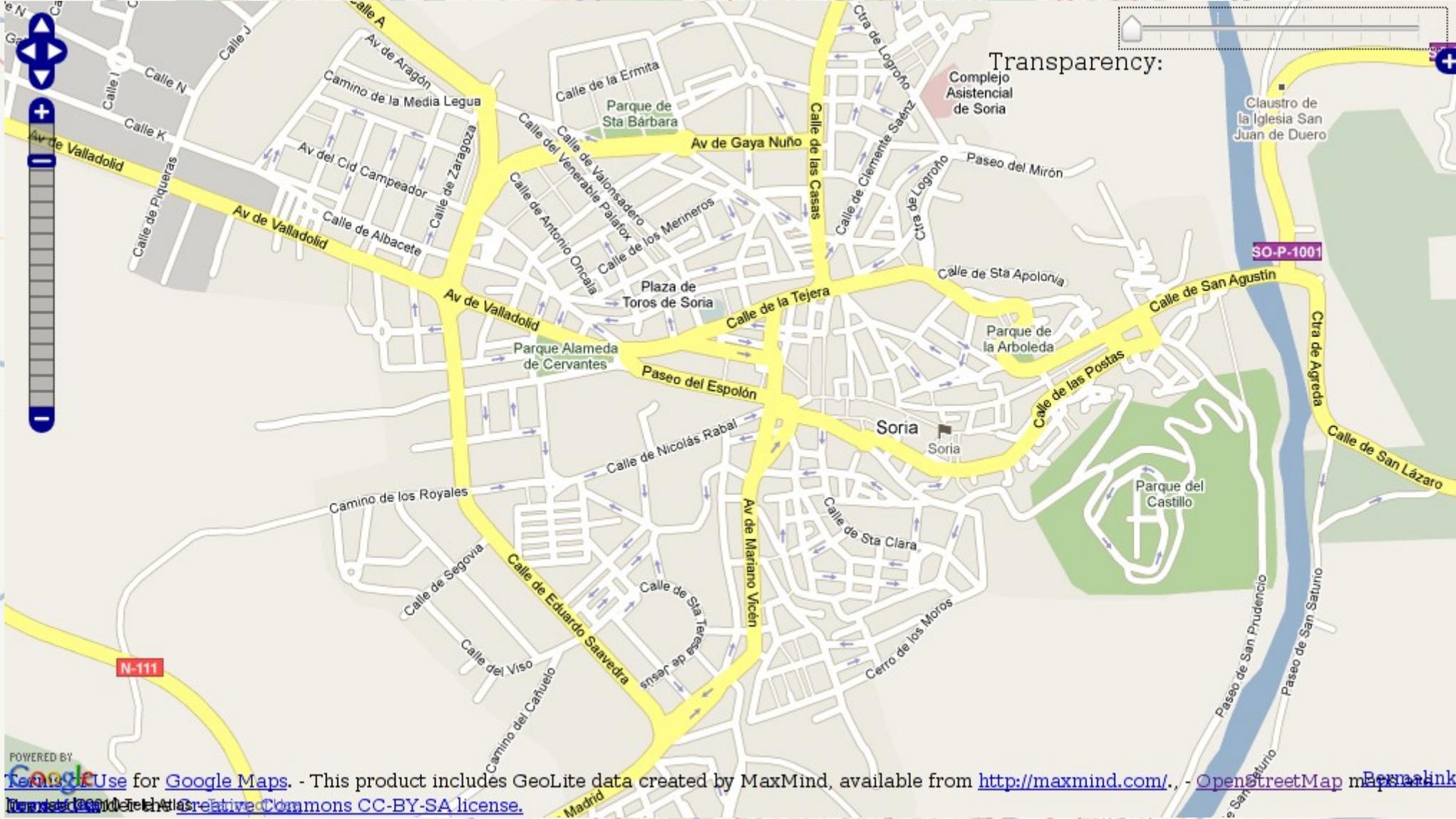
Aachen

würseien Eschweiler



Valkenswaard

Venlo  
Tegelen



Transparency:

Complejo Asistencial de Soria

Claustro de la Iglesia San Juan de Duero

SO-P-1001

Soria

Parque del Castillo

N-111

POWERED BY Use for [Google Maps](#). - This product includes GeoLite data created by MaxMind, available from <http://maxmind.com/>, - [OpenStreetMap](#) maps data  
 Terms of Use - [Privacy Policy](#) - [Creative Commons CC-BY-SA license](#).

Würselen Eschweiler

Aachen



Valkenswaard

Venlo  
Tegelen



- Base Layer
- Google Streets
  - Google MapMaker
  - Google Satellite
  - Google Physical
  - Yahoo Street
  - Yahoo Satellite
- Overlays
- OpenStreetMap Mapnik
  - OpenStreetMap Tiles@Home
  - OSM Cycle Map
  - OSM unnamed Streets
  - ÖPNV Karte
  - Wanderkarte

POWERED BY  
 Use for [Google Maps](#) - This product includes GeoLite data created by MaxMind, available from <http://maxmind.com/> - [OpenStreetMap](#) - [Bing](#)  
Imagery © 2010 DigitalGlobe, Cnes/Spot Image, GeoEye - [Terms of Use](#)

Wurselen  
Eschweiler  
Aachen



Valkenswaard

Venlo  
Tegelen



Transparency:

Base Layer

- Google Streets
- Google MapMaker
- Google Satellite
- Google Physical
- Yahoo Street
- Yahoo Satellite

Overlays

- OpenStreetMap Mapnik
- OpenStreetMap Tiles@Home
- OSM Cycle Map
- OSM unnamed Streets
- ÖPNV Karte
- Wanderkarte

POWERED BY



Terms of Use for Google Maps. - This product includes GeoLite data created by MaxMind, available from <http://maxmind.com/>. - OpenStreetMap map data under the Creative Commons CC-BY-SA license.

Würselen Eschweiler

Aachen



**¿Gratis?**

**Los mapas son gratis**

**Los datos geográficos  
no son gratis**



# Open Street Map no es un mash up



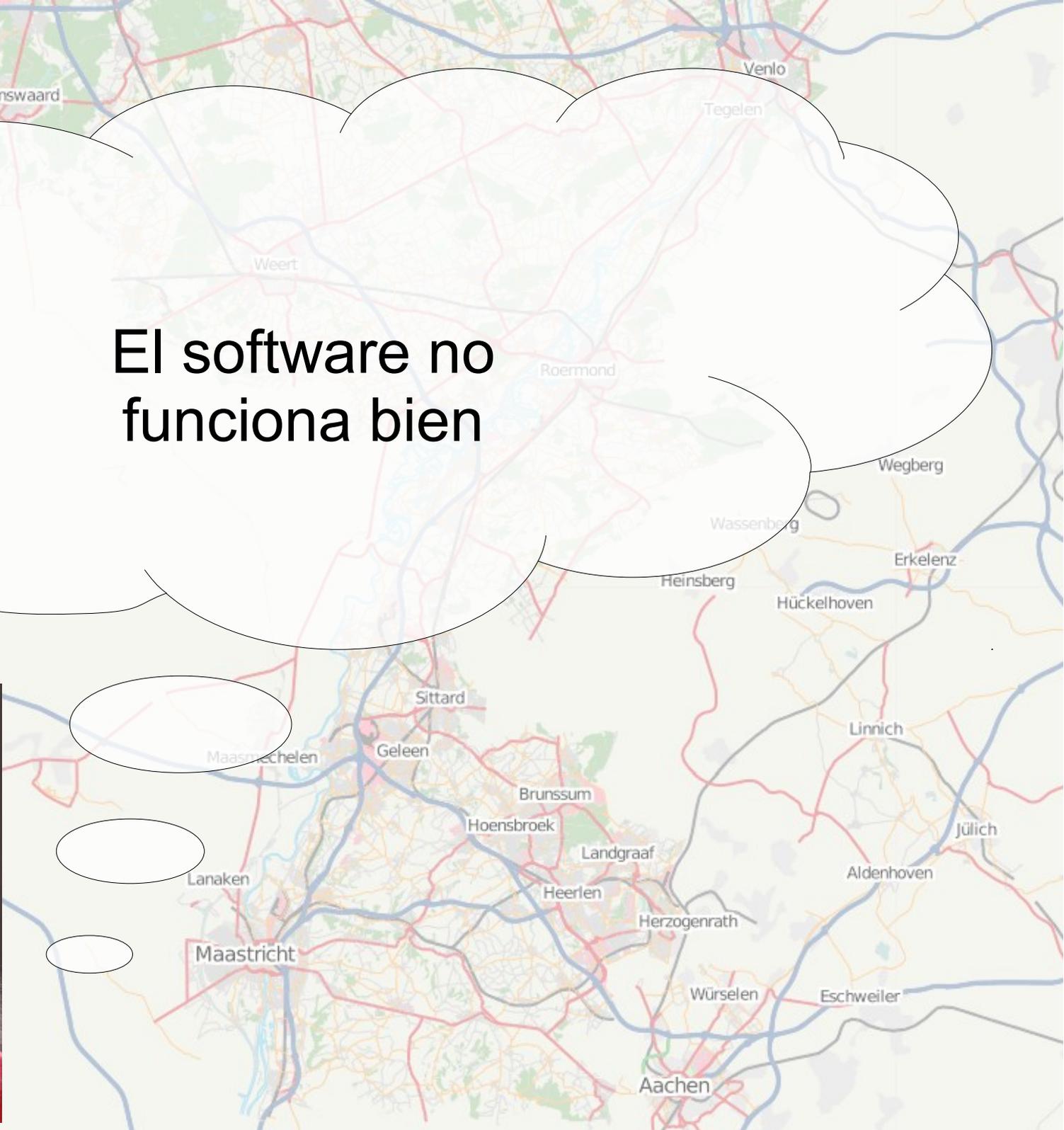


¿Qué es OpenStreetmap?





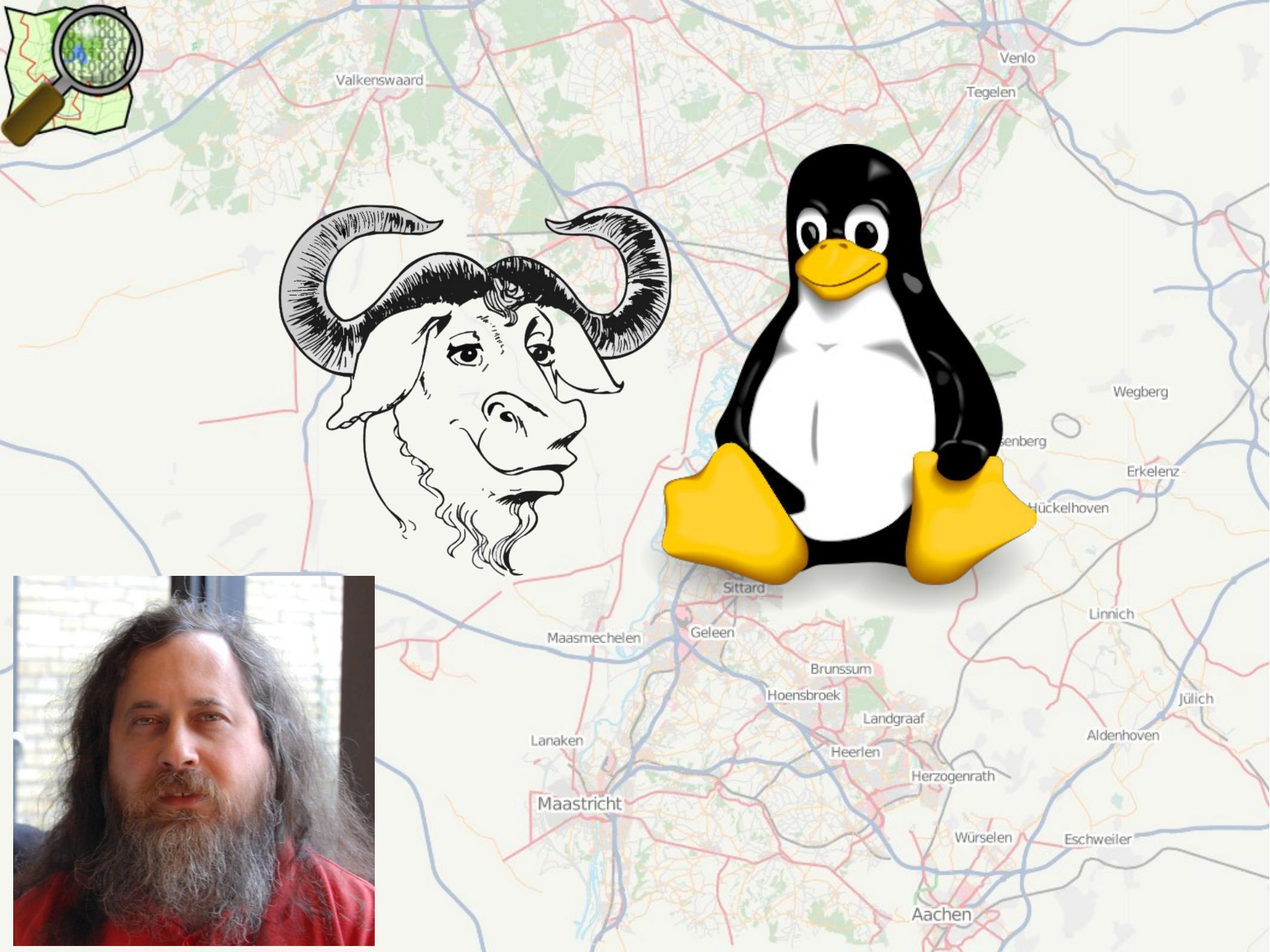
El software no funciona bien





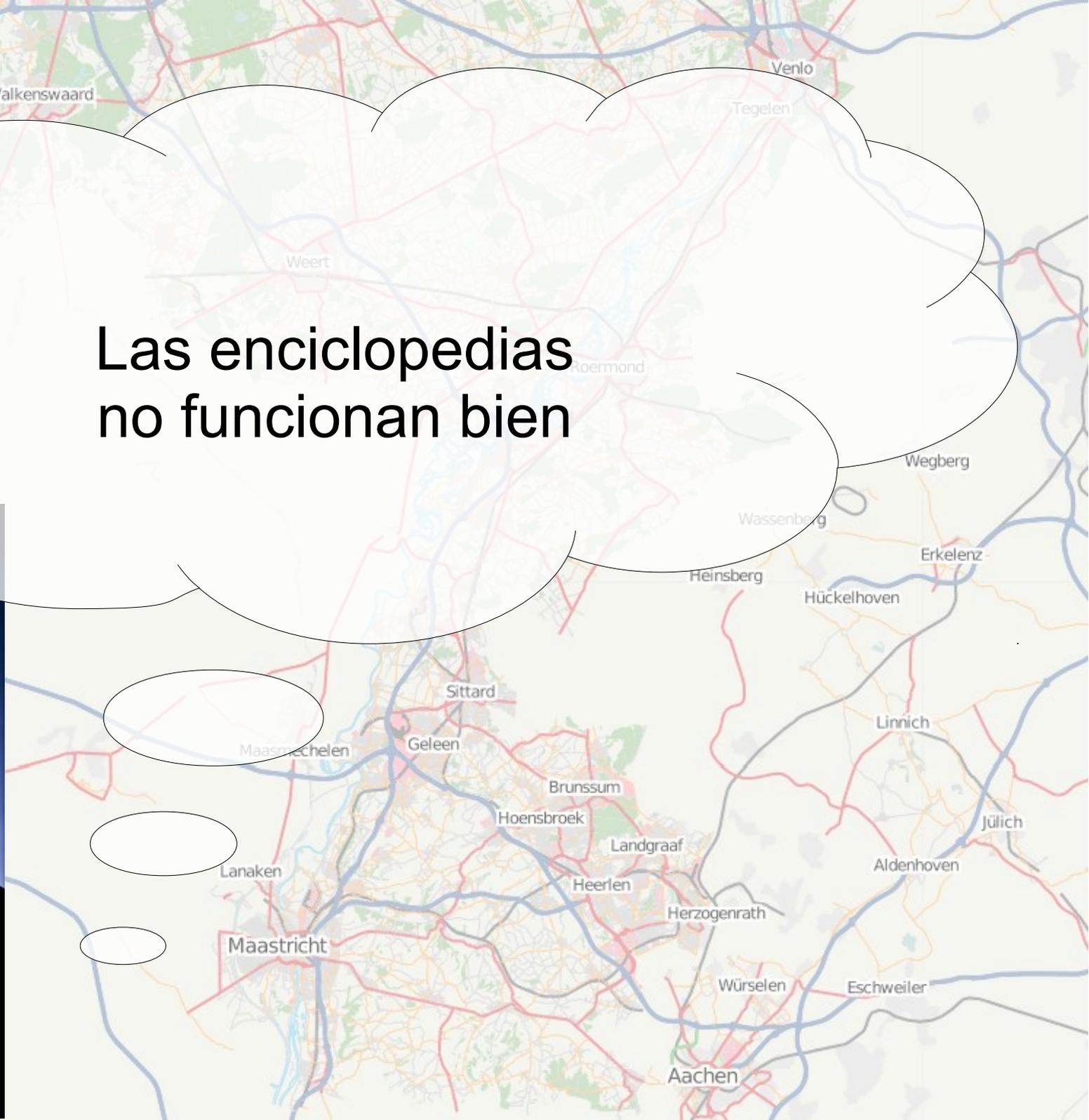
Voy a hacer mi propio software





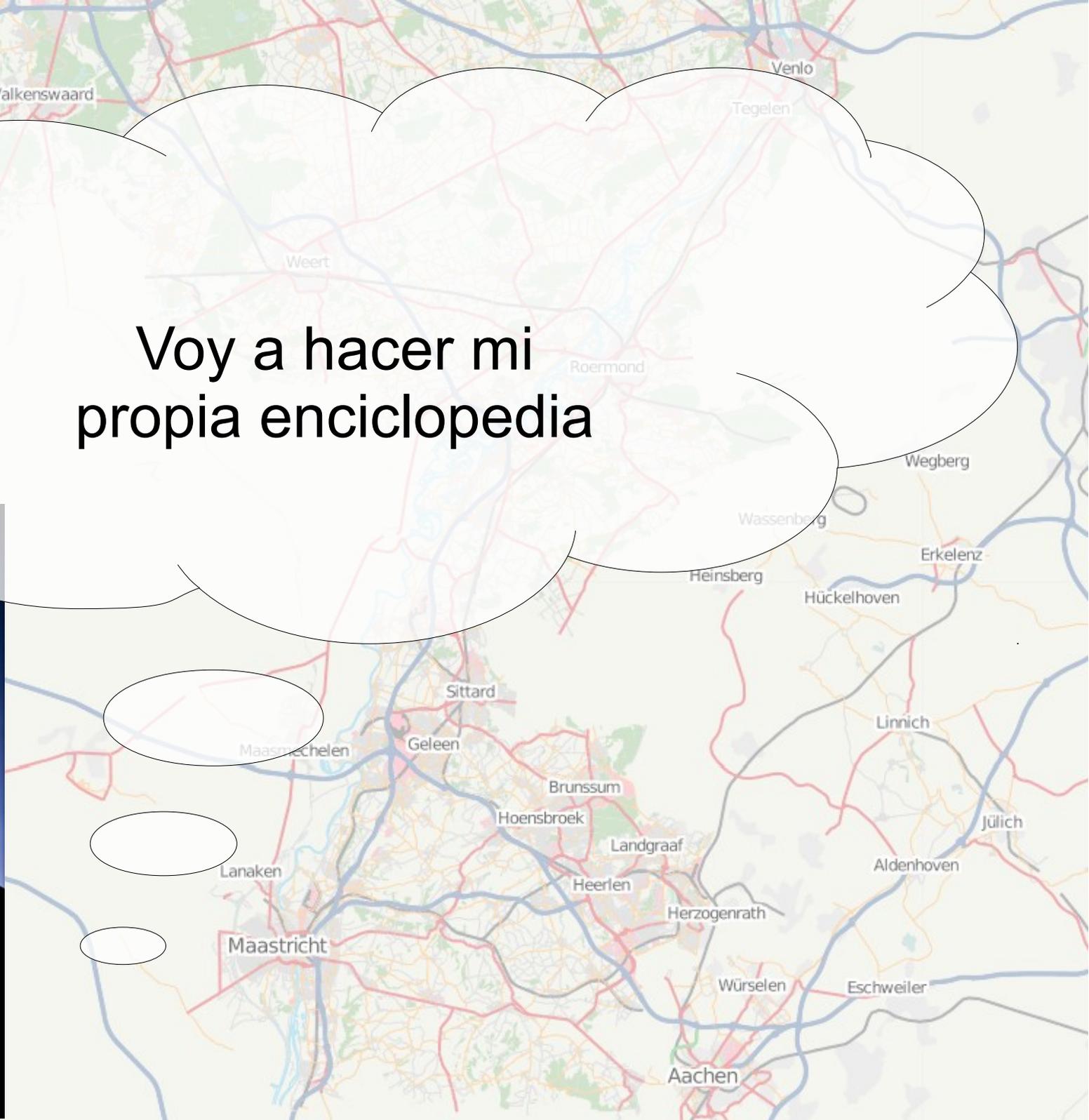


# Las enciclopedias no funcionan bien





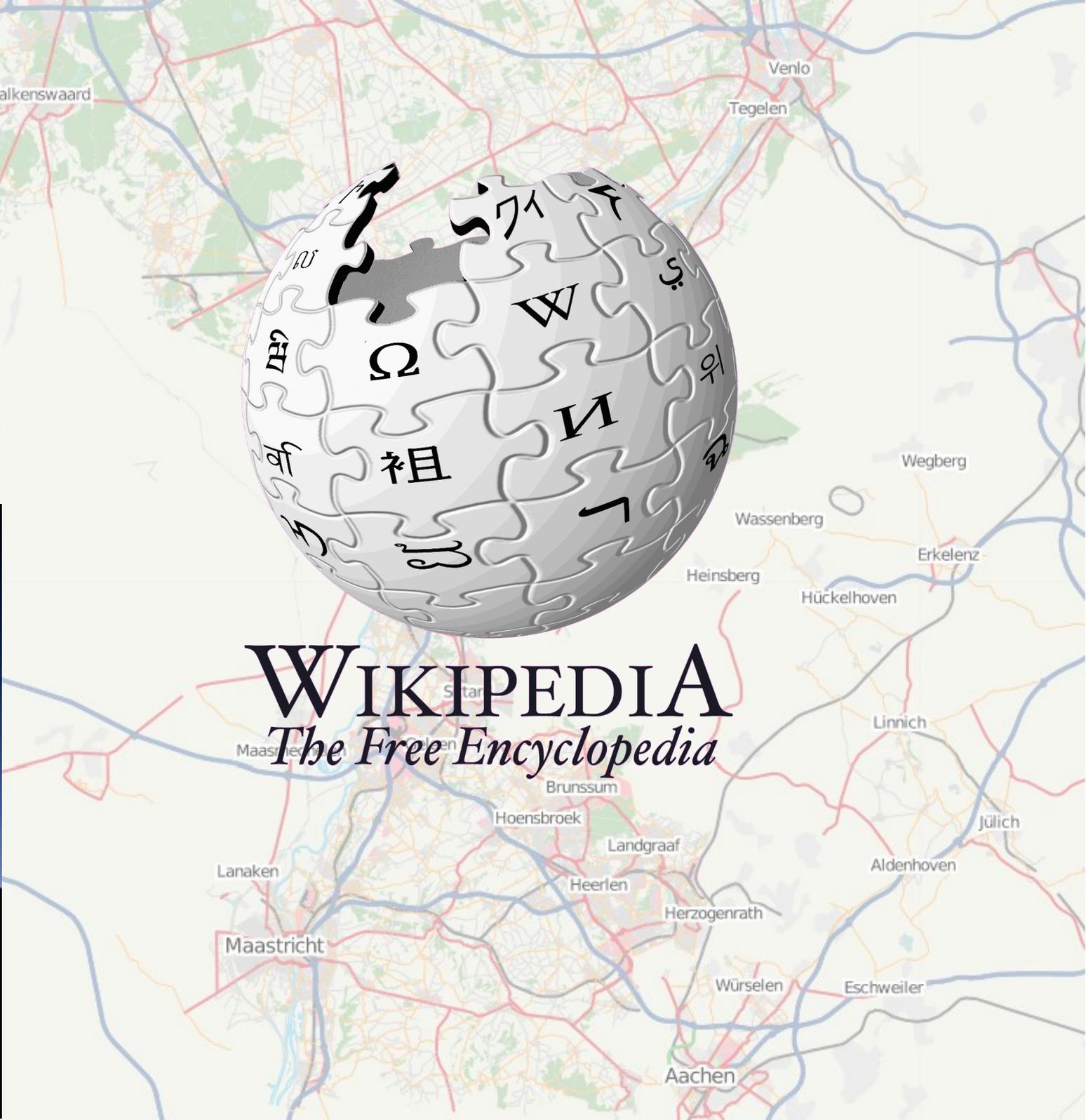
Voy a hacer mi  
propia enciclopedia





# WIKIPEDIA

*The Free Encyclopedia*

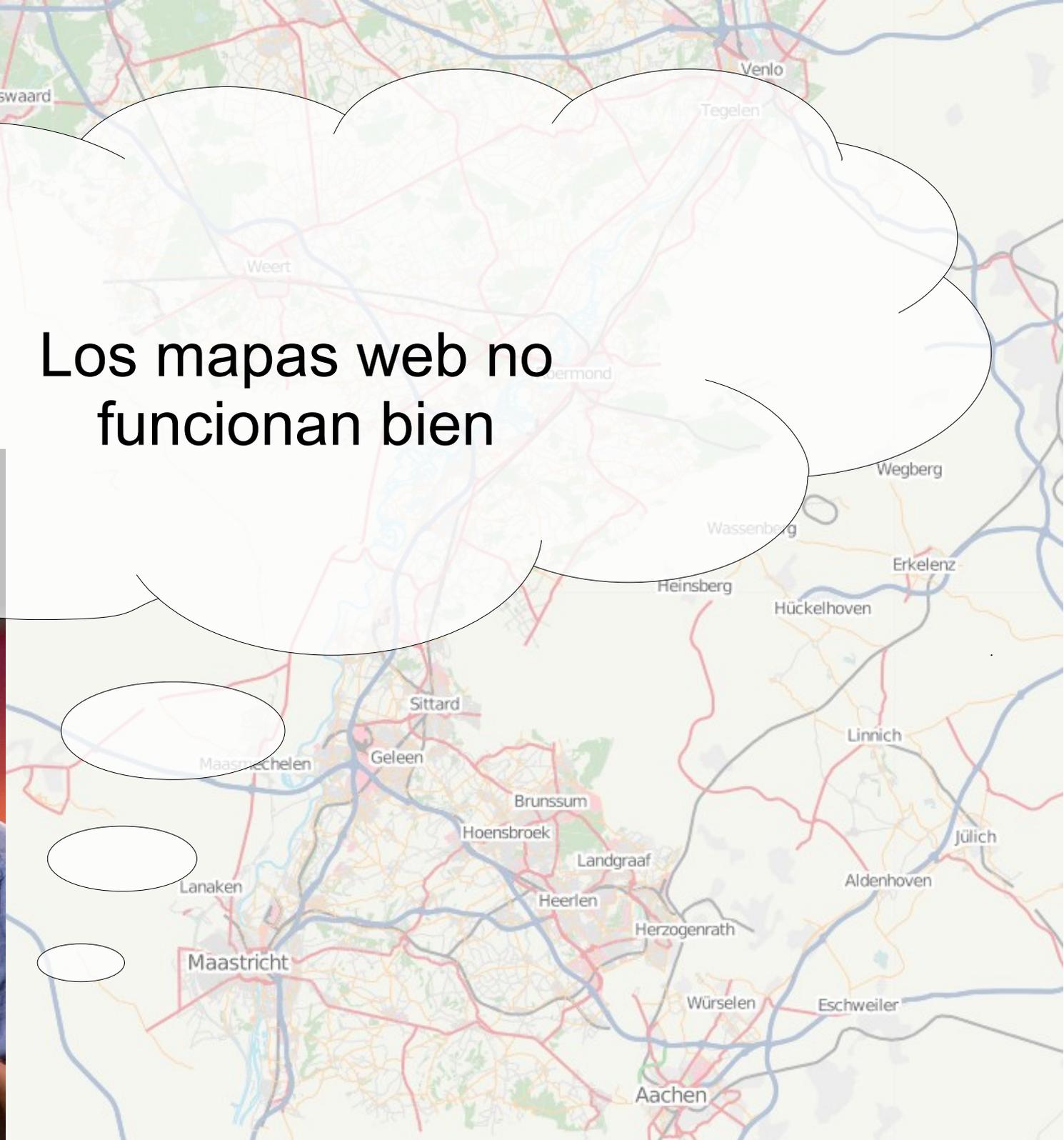




# Los mapas web no funcionan bien



James Duncan Davidson





Voy a hacer mi  
propia cartografía



James Duncan Davidson





James Duncan Davidson



# ¿Qué es OpenStreetMap?

- Solución pragmática para datos espaciales
- Respuesta a la falta de datos geográficos libres
- Ha evolucionado hasta lo que es hoy:
  - Una arquitectura compleja



# Historia de OpenStreetMap

- Nace el 9 de agosto de 2004 como app Java
- En 2005 se cambia a una interfaz HTTP
- En 2006 se celebra la primera “mapping party”
- 20/2/2007: 1ª reunión de OSM España
- 14-15/7/2007: 1ª reunión internacional
- 2008: donaciones masivas de datos (AND, TIGER)
- 2009: Corine en Francia
- 2010: Ordnance Survey en UK



# Interfaz de Datos Espaciales

- Hoy OSM es un IDE, compuesto de:
  - 1) Datos
  - 2) Personas
  - 3) Procedimientos
  - 4) Software
  - 5) Hardware





# Datos y personas

Muy, muy, muy simple

- Nodos
- Vías
- Relaciones

Todo condimentado con etiquetas





# Datos y personas

# Showtime!





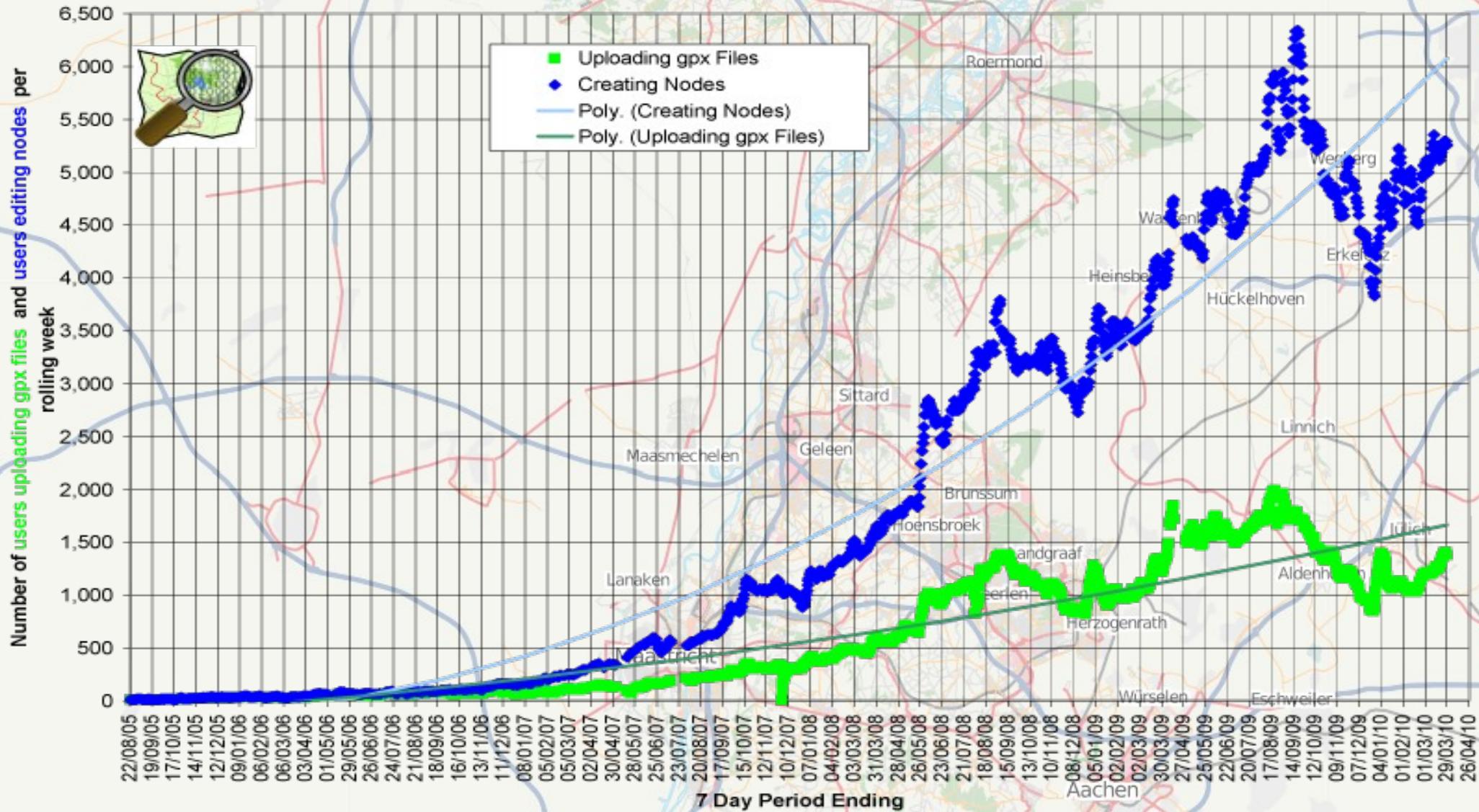
# Datos

- Todos los datos están en una BBDD
- Se pueden descargar en formato XML
- Todo basado en nodos->vías->relaciones
- Cada elemento tiene N etiquetas XML
  - Conjunto no limitado
  - Así que se puede añadir lo que sea:
    - Mapa ciclista
    - Pistas de esquí
    - Mapas especializados (arqueológicos)



# Personas

**OpenStreetMap Database Statistics**  
Users Uploading or Editing Nodes (Rolling Week)





# Personas

- En las zonas con gente activa, se actualizan los mapas antes que los comerciales:
  - T5 de Heathrow
  - Acelerador de partículas del CERN
    - [http://wiki.openstreetmap.org/index.php/Image:Large\\_Hadron](http://wiki.openstreetmap.org/index.php/Image:Large_Hadron)
- Y se evitan los fallos de los mapas comerciales:
  - AP-1 a su paso por Vitoria (¡aún no existe!)



# Procedimientos (Ortofoto)

Valkenswaard

Venlo

Tegelen

View Edit Export GPS Traces User Diaries

Welcome, ivansanchez | home | inbox (0) | logout

OpenStreetMap



The Free Wiki World Map

Help & Wiki  
News blog  
Shop

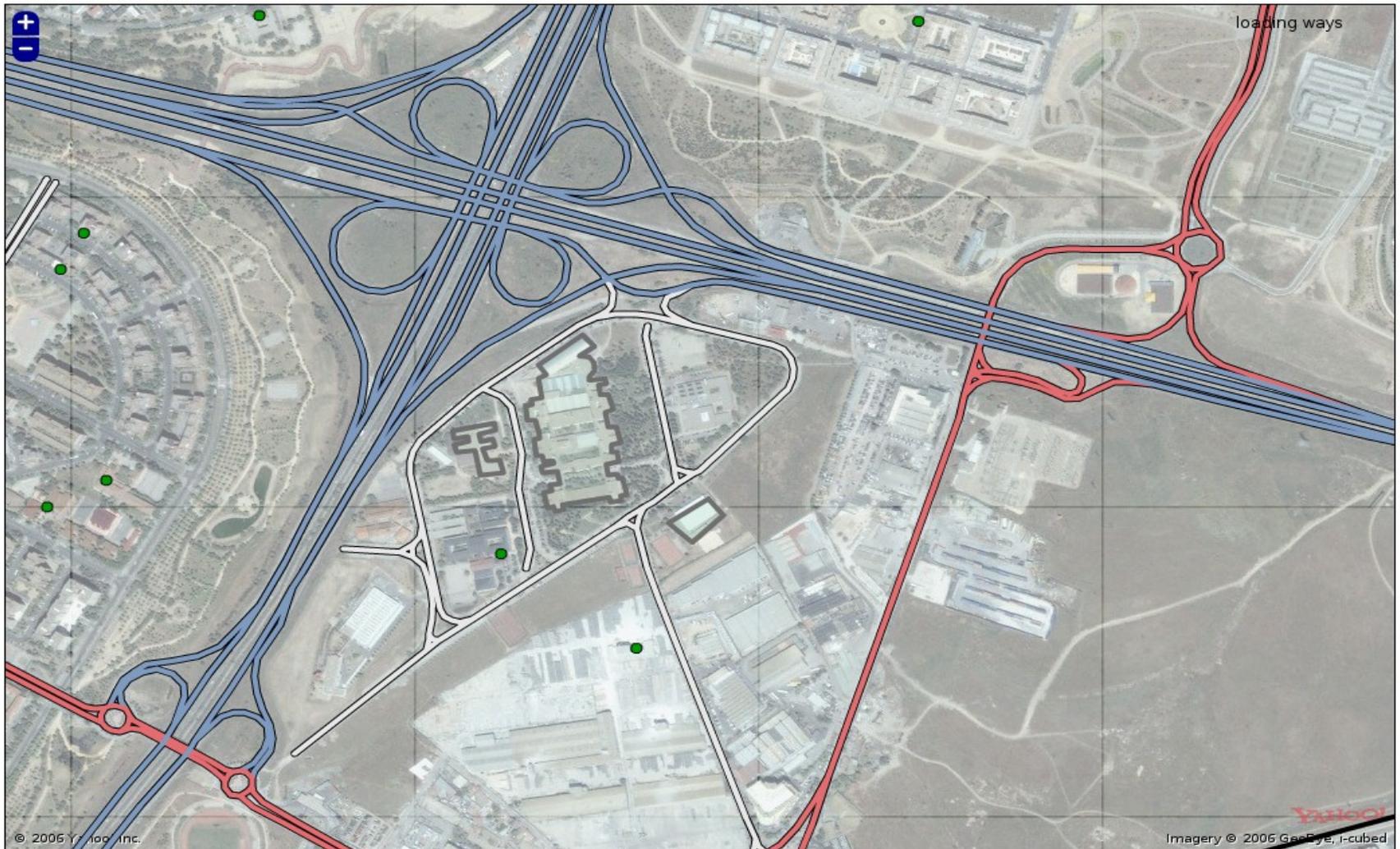
Come to the second  
OpenStreetMap  
Conference, [The State of the Map](#): 12th-13th July 2008, Limerick, Ireland.

Search [Where am I?](#)

examples: 'Alkmaar',  
'Regent Street, Cambridge',  
'CB2 5AQ', or 'post offices  
near Lünen' [more examples...](#)

[Make A Donation](#)



© 2006 Yahoo! Inc.

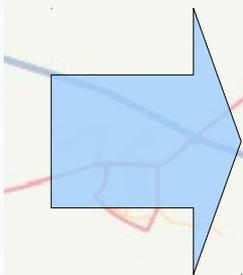
Imagery © 2006 GeoEye, i-cubed

Potlatch 0.9c





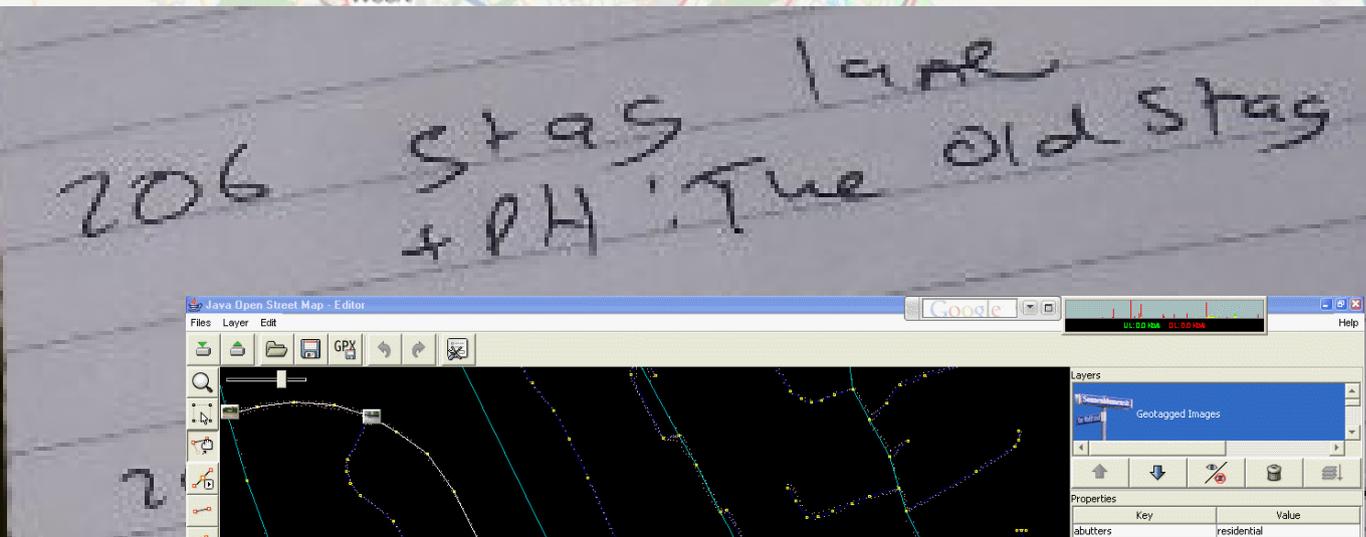
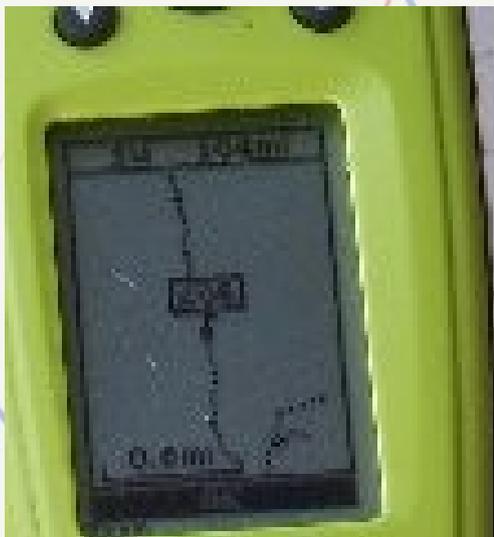
# Procedimientos (Traza GPS)



A screenshot of a GIS software interface. The main window shows a map with a yellow GPX track overlaid. The track consists of several rectangular loops. The software has a menu bar (File, Edit, View, Tools, Audio, User, WMS, Presets, Help) and a toolbar with various icons. On the right, there is a "Layers" panel with a list of layers: "unnamed", "GPX 20080524.gpx", "GPX 20080525\_1.gpx", and "Validation errors". Below the layers panel is a "Properties/Memberships" table with columns for "Key" and "Value". At the bottom, there is a status bar showing coordinates (40.2808, -3.7308) and a "Zoom in by dragging" instruction.



# Procedimientos (Notas o fotos georreferenciadas)



Java Open Street Map - Editor

Layers

- Geotagged Images

Properties

Key	Value
abutters	residential
created_by	JOSM
highway	residential
name	Hillmoreton Road
postal_code	874

10/05/2006 14:10

OK

Lat/Lon [52.5919884;248841 -1.8400277;371956137]



# Procedimientos (walking papers)

**Walking Papers**

Help improve OpenStreetMap by drawing on this map, then visit <http://walking-papers.org/print.php?id=ff8949zv>

052 = BASUA  
 053 = TREMBIDEA  
 054 = KOTONDA DEJUTADA  
 055 = ZUBIAR ZENITIAKO MUSIKA ESKOLA  
 056 = ZABORDIA  
 057 = BIZIKLETAK  
 058 = TRENA  
 059 = PARKEA  
 060 = SKATE  
 061 = BASKET  
 062 = KOMUNAK  
 063 = AZOKA KALEA  
 064 = ITURRIA

1-CAFETERIA HRU ARI  
 2-CAFETERIA BEREZI  
 3-CORREOS  
 4-BOOFGUILLA IBAIZABAL  
 5-ANDRA MARIKO PLAZA  
 6-IPAR KUTXA

Map data ©2009 CC-BY-SA  
 OpenStreetMap.org contributors



# Procedimientos (Catálogo de entidades)

- Extensible y evolutivo
- Cualquiera puede proponer nuevas etiquetas
- Proceso informal:
  - Listas de correo
  - Wiki (votación)

The screenshot shows the OpenStreetMap wiki page for the tag `highway=motorway`. The page is in English and includes a navigation sidebar, a table of contents, a description, a 'How to map' section with a diagram, and a 'Special situations' section. The diagram illustrates how to map a motorway with nodes and ways, showing a dual carriageway with two parallel lines and nodes at the ends and junctions. The 'Special situations' section lists tags like `highway=motorway_link` and `highway=motorway_junction` with their respective uses.

**Contents**

- 1 Description
- 2 How to map
  - 2.1 Special situations
  - 2.2 International equivalence
- 3 Examples

**Description**

A restricted access major divided highway, normally with 2 or more running lanes plus emergency hard shoulder. Equivalent to the Freeway, Autobahn etc..

Motorways are used to connect bigger cities and allow fast travelling between them.

In most cases the motorway is a dual carriageway which means that the traffic for both directions is separated by a central barrier or strip of land.

**How to map**

To map a simple motorway you can just draw a line for it. Select all ways which belong to the motorway and tag them with `highway=motorway`. Use `oneway=yes` when it is not possible to drive in both directions on the motorway. Make sure the way points in the same direction as the oneway goes.

In the case of a dual carriageway you should draw one line for each direction and tag each direction on their own.

Be sure to set the nodes for the each direction on the same high, this gives a much better result when the map will be rendered as well as indicates directly that both ways belong together.

To attach more information for the motorway you should add further keys.

- `maxspeed=Number` indicates the maximum speed which is allowed
- `minspeed=Number` indicates the minimum speed which need to be reached to use the motorway
- `name=Name of the motorway`
- `ref=reference name` for example A1, E22
- `lanes=Number` to indicate how many lanes exist on the motorway

**Special situations**

In the case you do not have a normal motorway you should take a look on these sites:

- `highway=motorway_link` - The link roads (sliproads / ramps) leading to and from a motorway.
- `highway=motorway_junction` - Indicates a junction (UK) or exit (US) ref should be set to the exit number or junction identifier.



# Hardware (OSM)

- Servidores en rack, pero limitados
- Se necesitan donaciones de hardware



Aachen



# Software (Cycle map)

- Red de rutas en bicicleta en Gran Bretaña

[gravitystorm.co.uk](http://gravitystorm.co.uk)

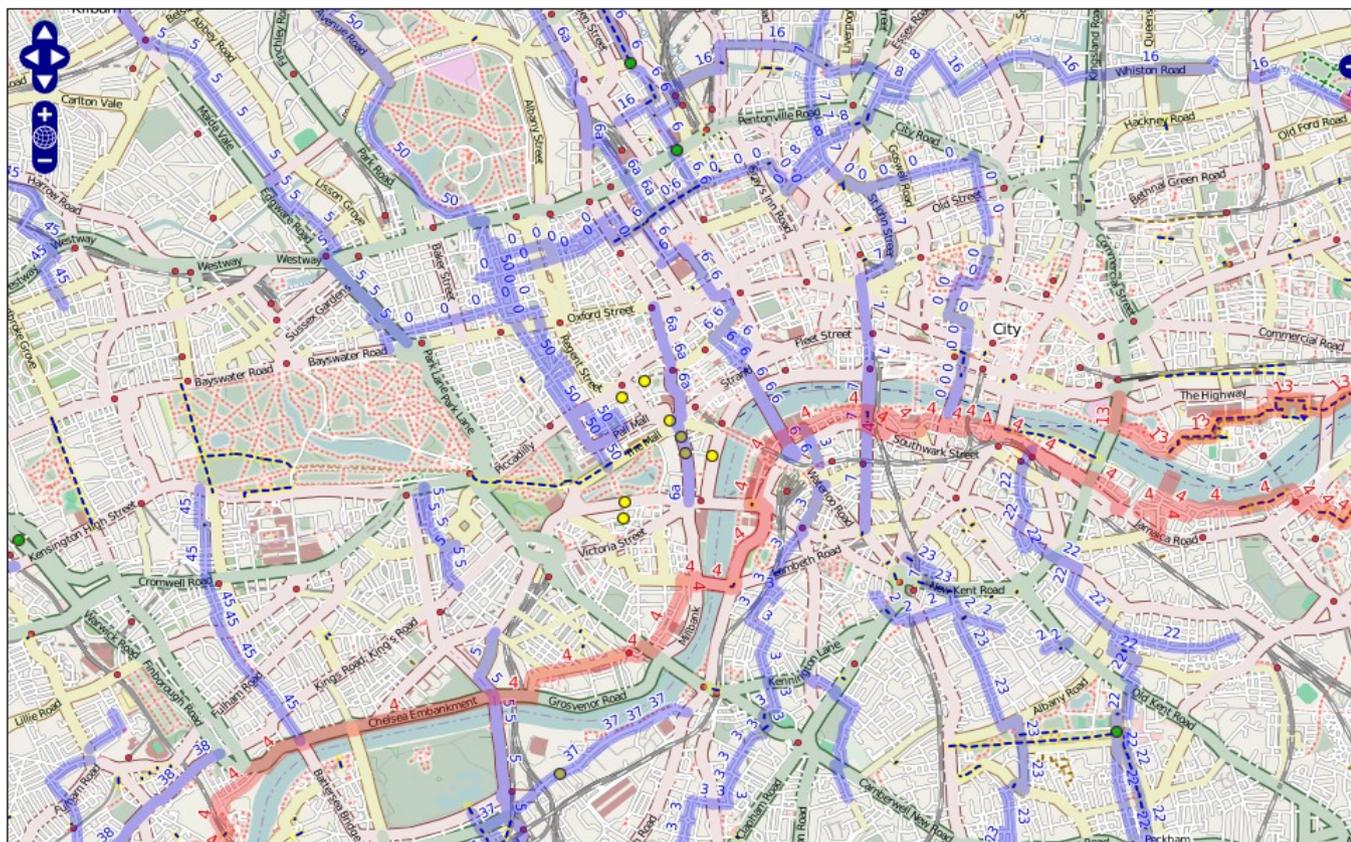
[Home](#) [Weblog](#) [DVDs](#) [Photos](#) [OSM](#) [Contact](#)

## OSM Cycle Map

### Key and More Info

Map data licensed  
**CC-BY-SA**  
**OpenStreetMap**  
(OpenStreetMap Foundation  
and contributors)

Share your current view of  
the map by clicking on  
**Permalink!**





# Software (OpenPisteMap)

- Pistas de esquí + curvas de nivel

## OpenPisteMap

Map data licensed

[CC-BY-SA](#)

[OpenStreetMap](#)

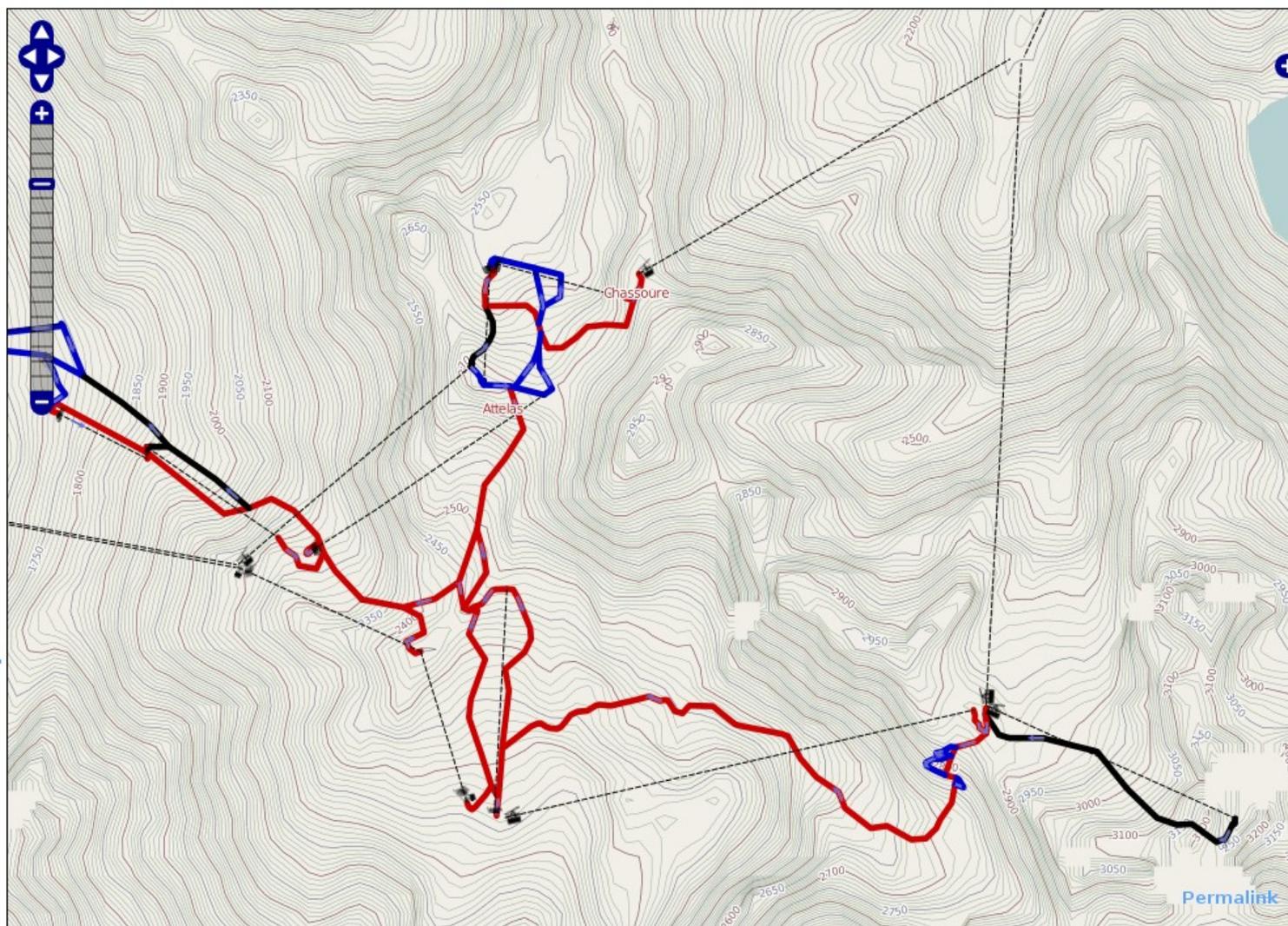
(OpenStreetMap Foundation and contributors)

**Please note: this site is currently in development and updates infrequently.**

**This data is not guaranteed to be correct - use at your own risk.**

Contributors should use the [proposed piste map tags](#) in order to see their work rendered here.

Questions and comments should be directed to [webmaster@openpistemap](mailto:webmaster@openpistemap). Please see the [Wiki](#) for project status information. Contour lines are rendered for regions containing ski resorts - please let me know of any resorts which show no contour lines.





# Software (OSM en TomTom)

- Mapas para el GPS basado en Linux





# Software (OpenRouteService)

- Servicio para crear rutas en mapas OSM

**OpenRouteService.org**  
Free OpenLS Route Service with Free OpenStreetMap Data

MAP&ROUTING HELP INFO NEWS EXAMPLES FREEOPENLS CONTACT

Routing with user-generated, collaboratively collected free geodata. This service is based on open standards by the Open Geospatial Consortium (OGC). Thanks to OpenStreetMap.org - please donate your geographic data to openstreetmap.org!

**Map**  Map Interaction  Get Information

**Zoom to** Bonn

**Routing**  Start  End (Click on map to set Start/End!)  
es KM Fastest Calculate  
[Extended Routing Version!](#)

**RouteSummary:**  
Total-Time: ~ 25 minute(s) 37 second(s)  
Total-Distance: ~ 37.9 KM

**RouteInstructions:**

1. Ud. comienza en: Reiherweg
2. Conduzca todo recto en Reiherweg durante 0.21 KM - aprox. <1 minuto(s)
3. Conduzca hacia la izquierda en Vogelsanger Straße durante 0.49 KM - aprox. <1 minuto(s)
4. Conduzca todo recto en Vogelsanger Str. durante 0.05 KM - aprox. <1 minuto(s)
5. Conduzca todo recto en Vogelsanger Straße durante 0.06 KM - aprox. <1 minuto(s)
6. Conduzca todo recto en Wilhelm-Mauser-Str. durante 0.81 KM - aprox. <1 minuto(s)
7. Conduzca a medias a la derecha en Venloer Straße durante 3.27 KM - aprox. 2 minuto(s)

Köln, Bonn, Frechen, Hürth, Brühl, Wesseling, Niederkassel, Troisdorf, Siegburg, Sankt Augustin, Lohmar, Rösraath, Neuho, Wahlschei, Bornheim, Erftstadt

Scale = 1 : 217K  
[Permalink](#)  
6.98726, 50.94556

Kartographie universitätbonn Geographie



# Software de terceros

- Navit, Maemo Mapper
- Viking, KDE Marble
- OpenAerialMap
- ¡Puedes usar OSM para lo que quieras!
  - Arqueólogos: mapas detallados de yacimientos
  - Itinerarios (Gran Recorrido, Vías Verdes)
  - Encierros en Pamplona y demás pueblos



# Evolución en España





# Jan 2007 – Mailing list

Francisco R. Santos wrote:

> Hello,

>

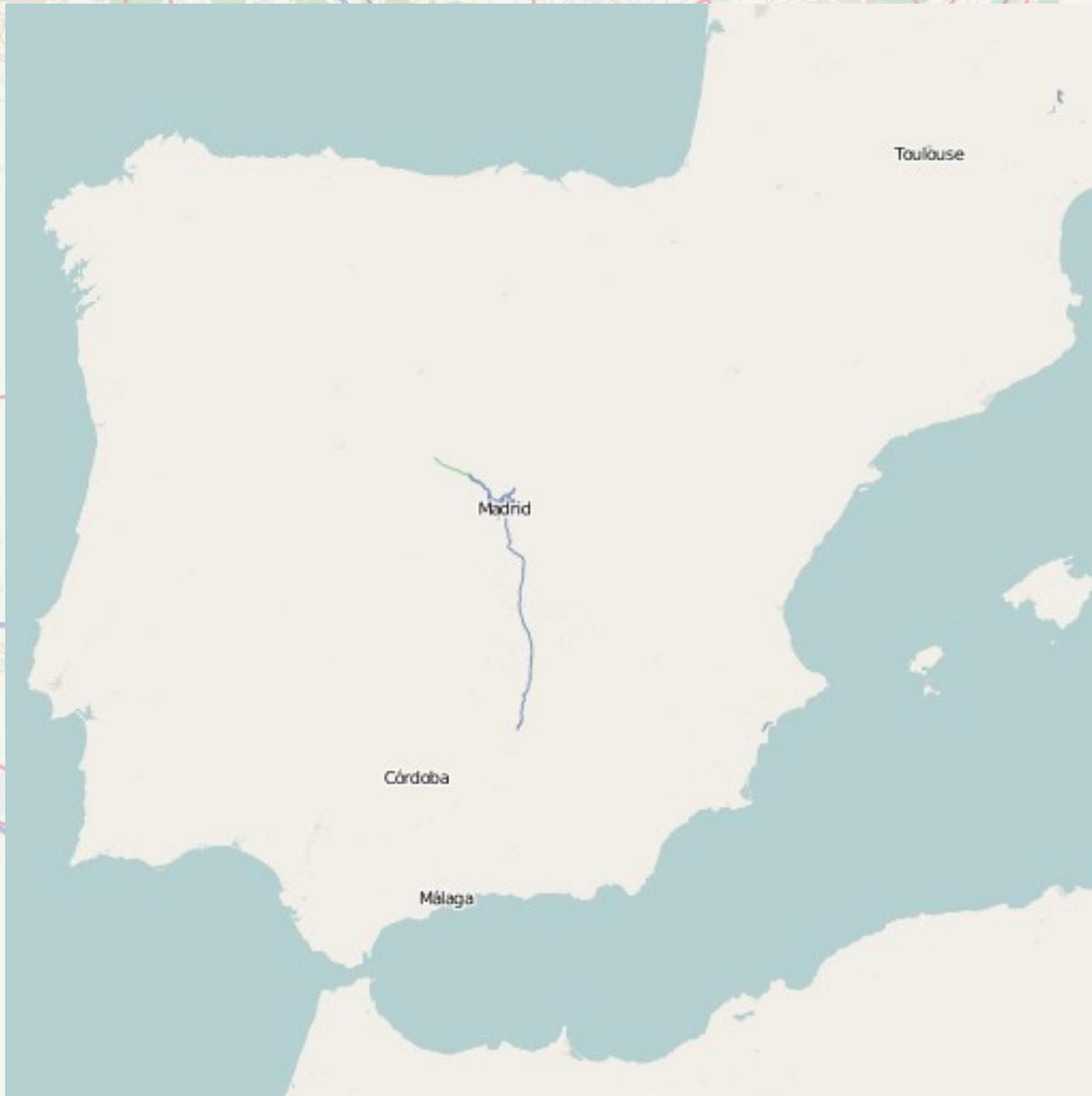
> Can I request the creation of a list for

> Spain (spanish) mappers? Are the lists

> created by country or by language?



# Enero 2007





# Enero 2008





# Enero 2009



Spain and Portugal in OpenStreetMap, January 2009





# Enero 2010





# Estadísticas

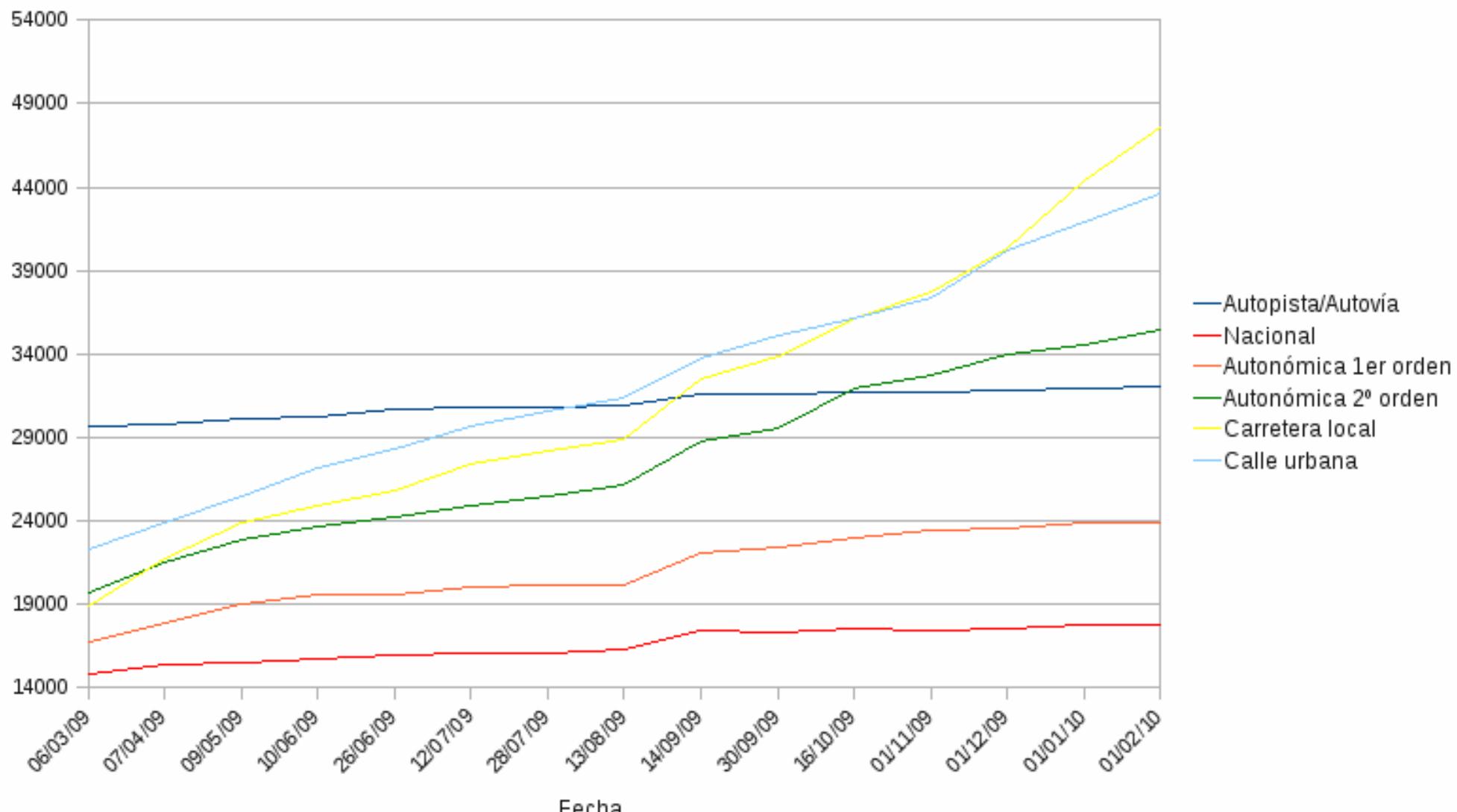
Valkenswaard

Venlo

Tegelen

## Estadísticas mapa OpenStreetMap

km por tipo de vía





# Estadísticas

+ 200% / año





# Levantamientos

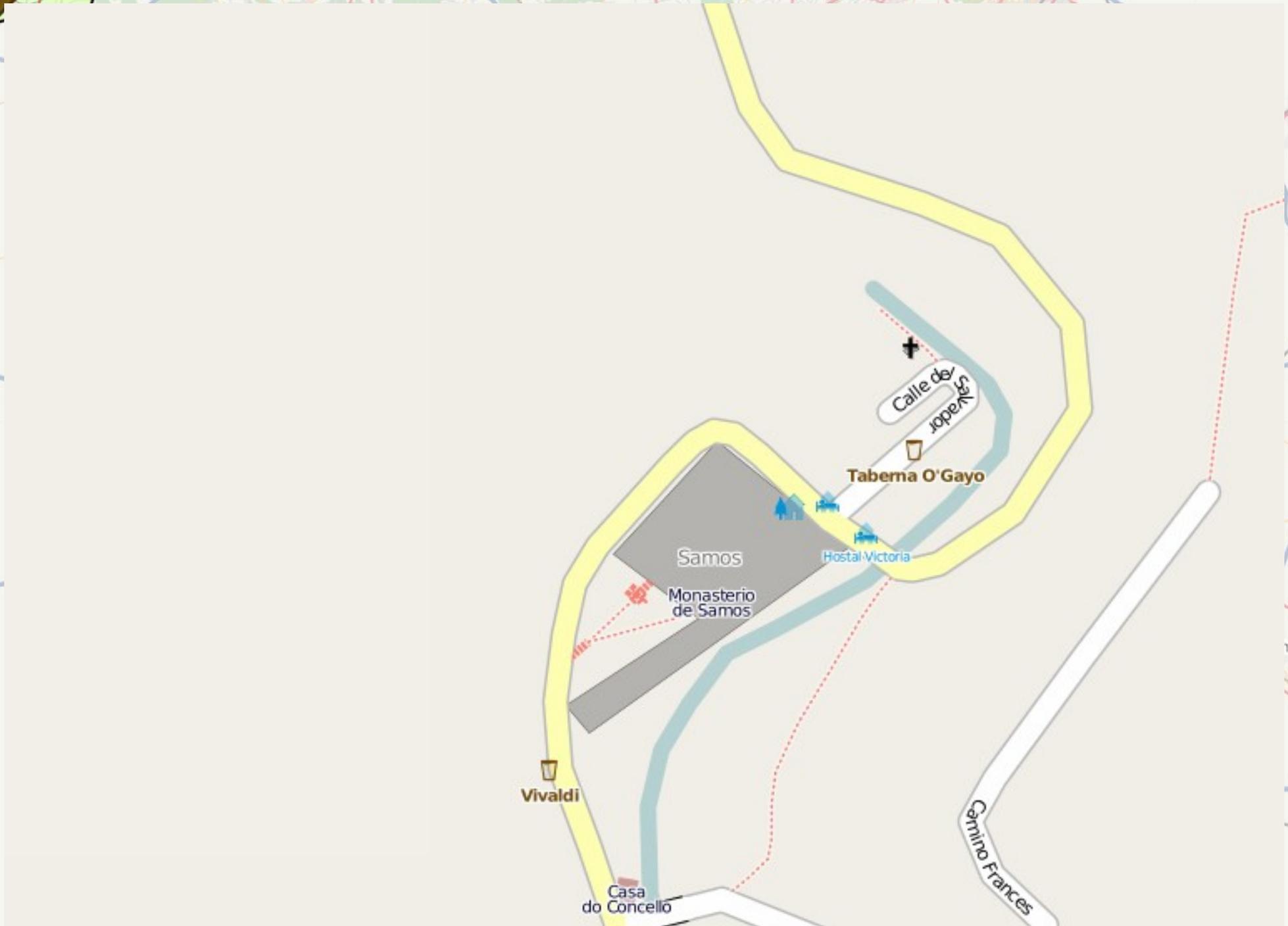


# Camino de Santiago



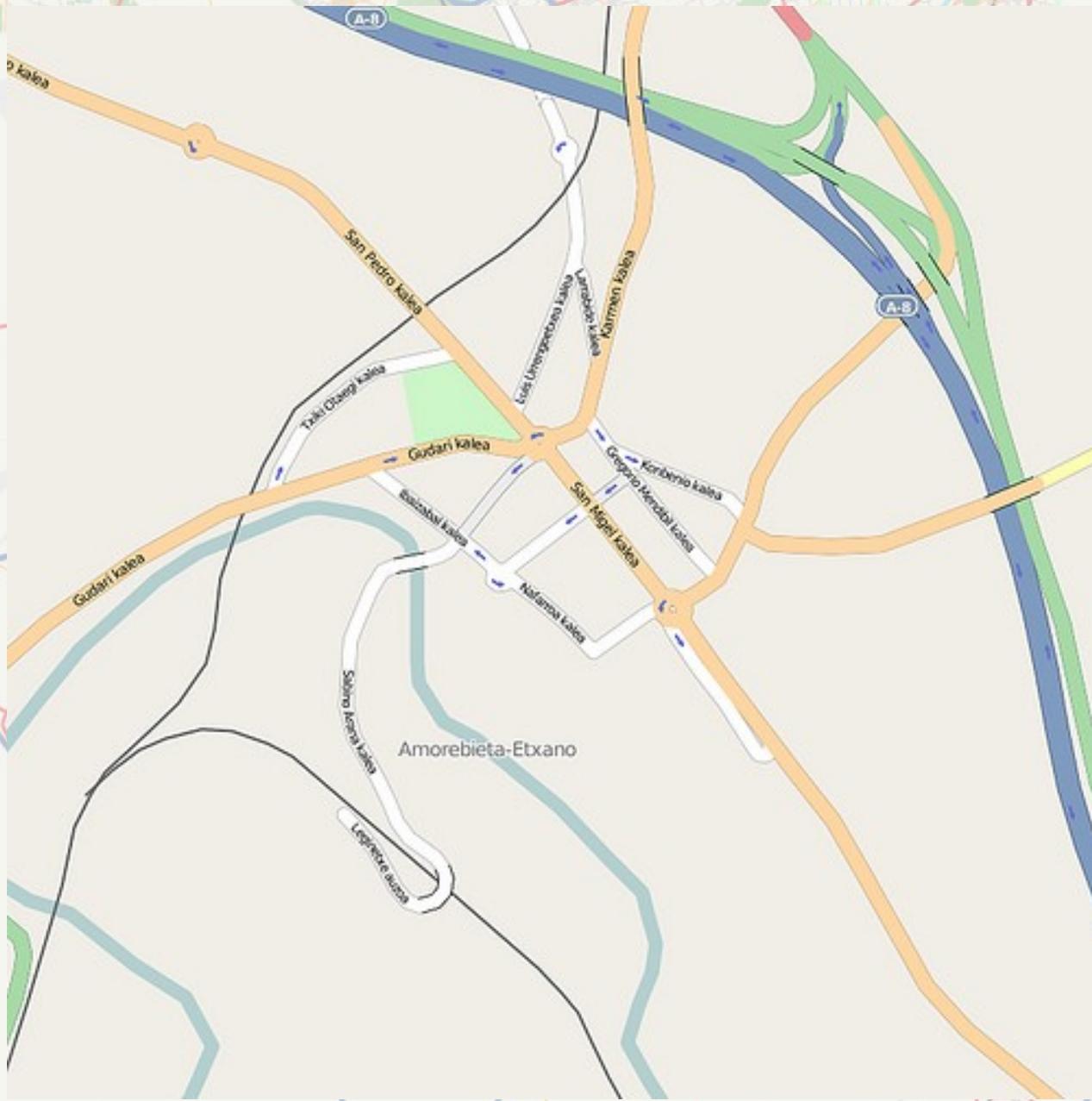


# Camino de Santiago





# Mapping parties



Valkenswaard

Venlo  
Tegelen

Wegberg

Erkelenz

Hückelhoven

Linnich

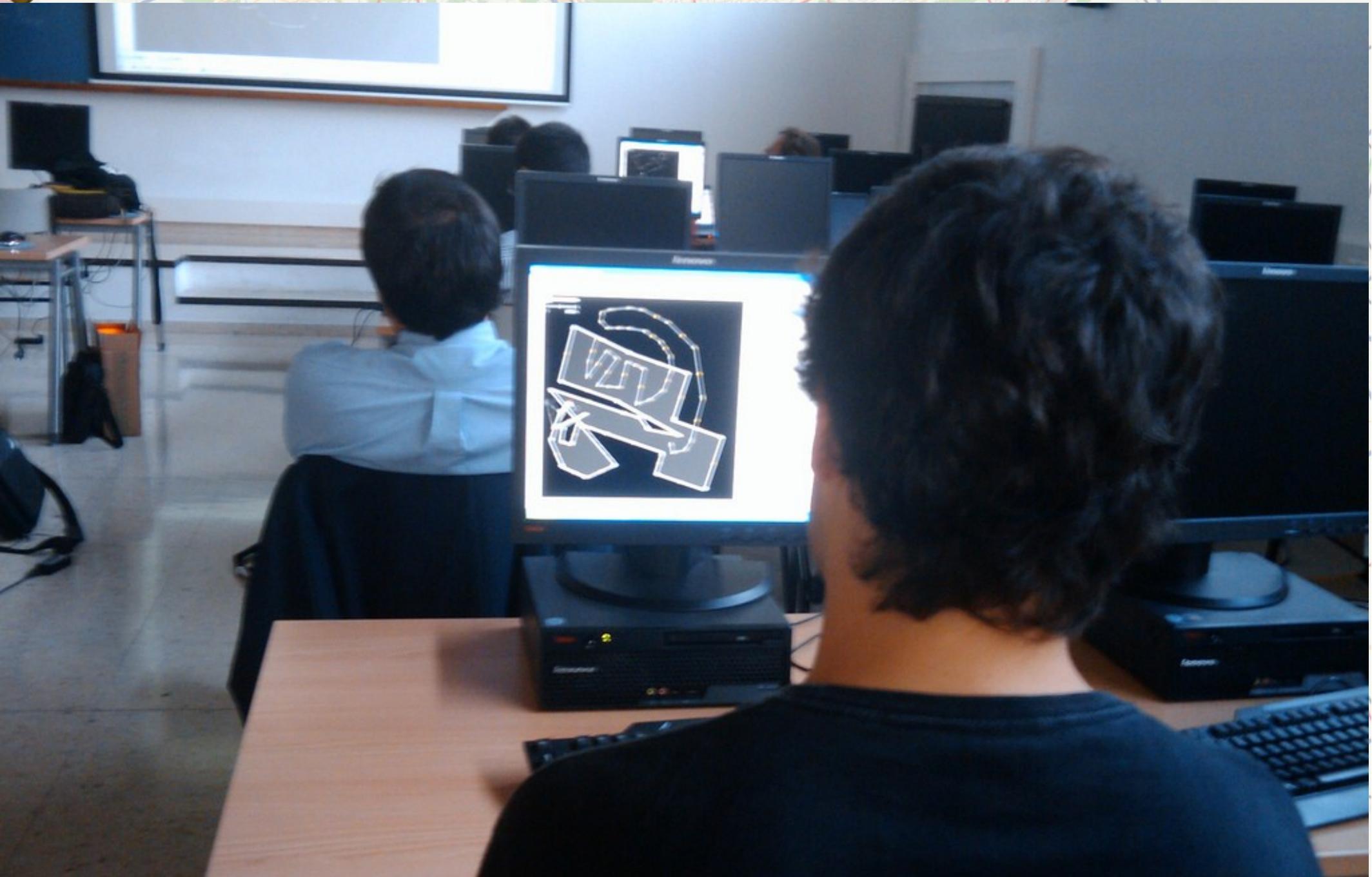
Jülich

Aldenhoven

Eschweiler

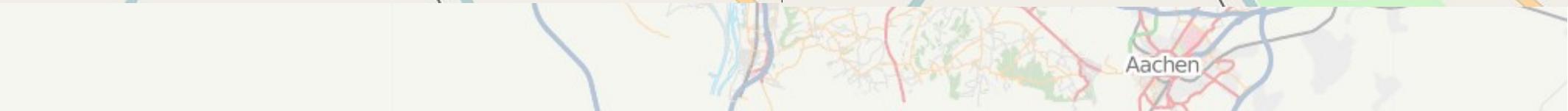
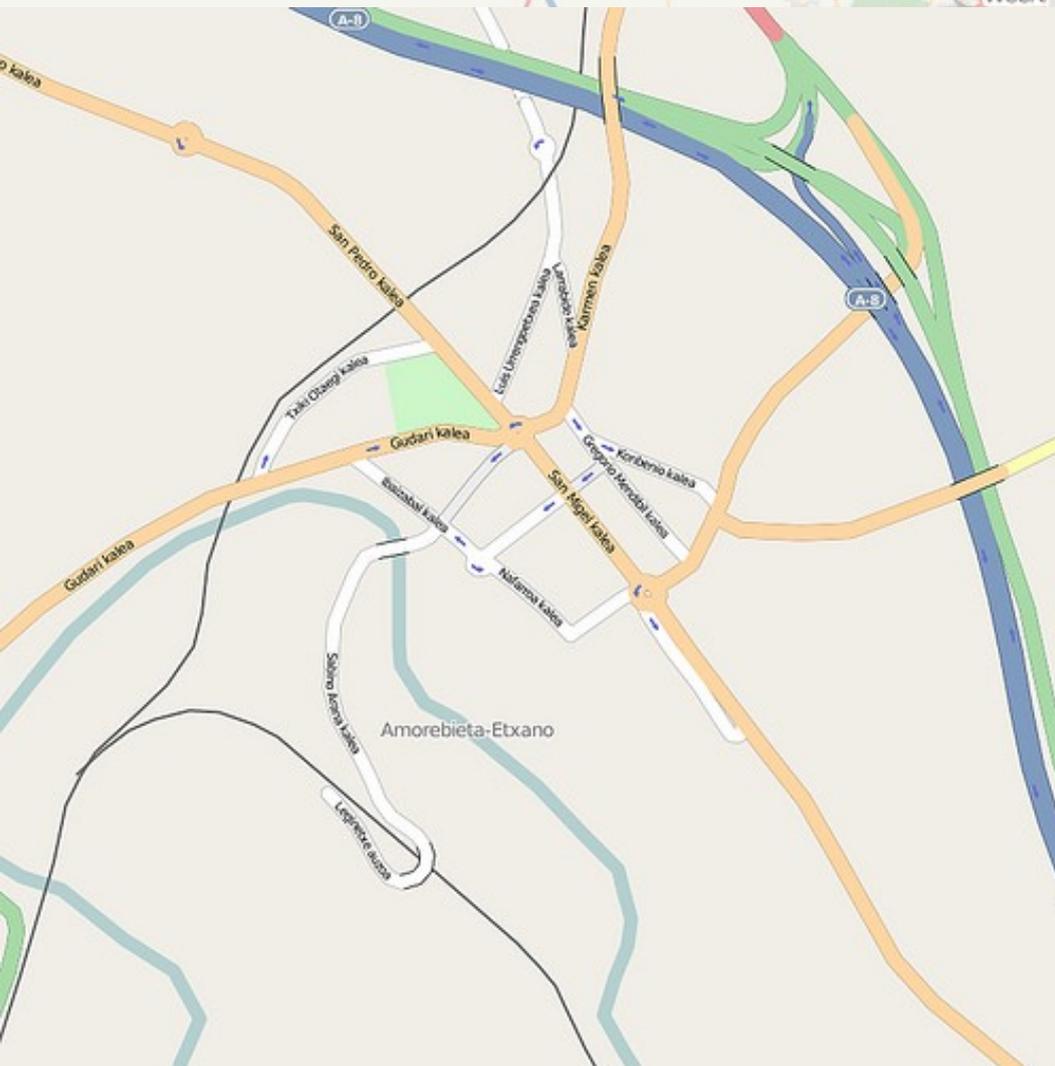


# Mapping parties



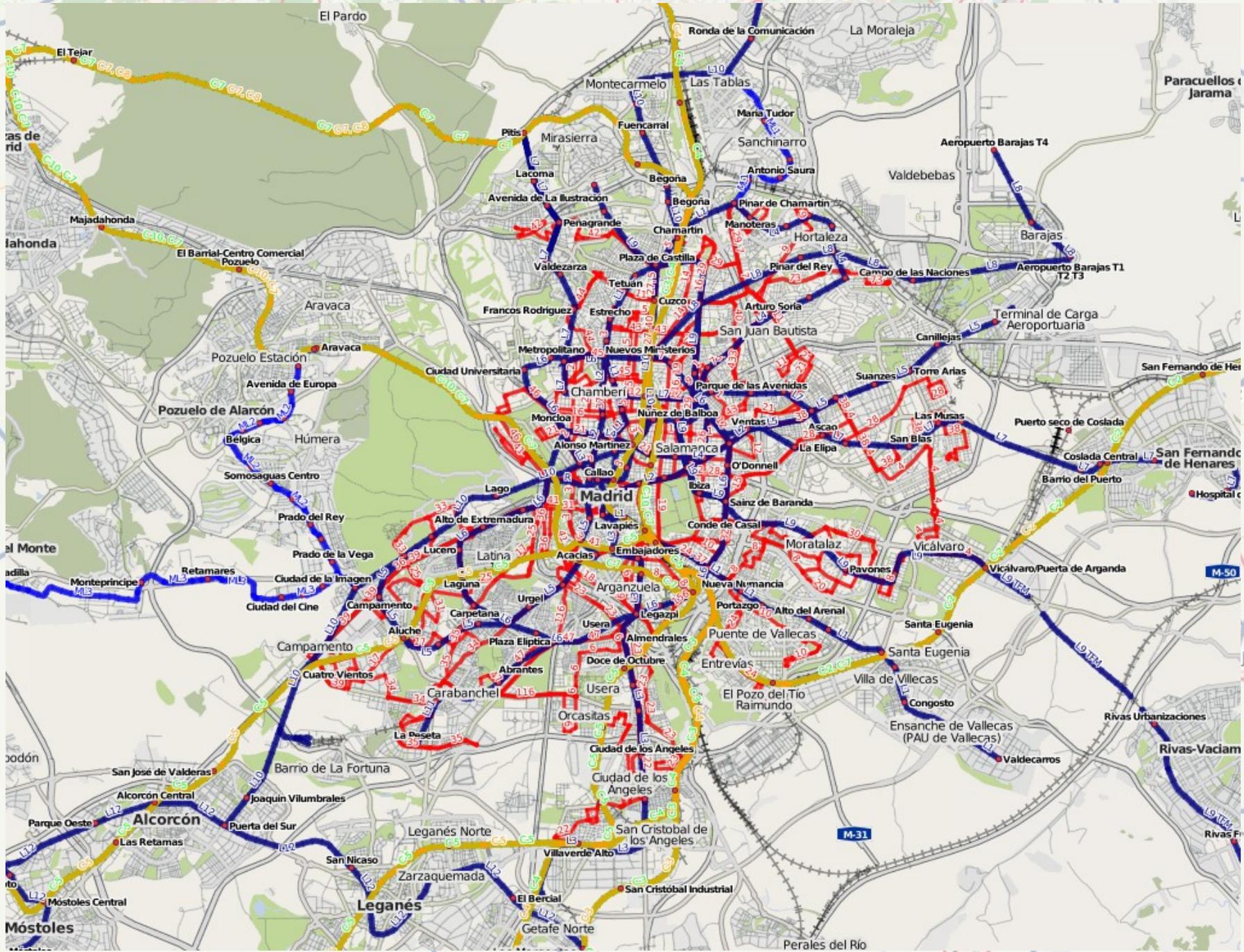


# País Vasco

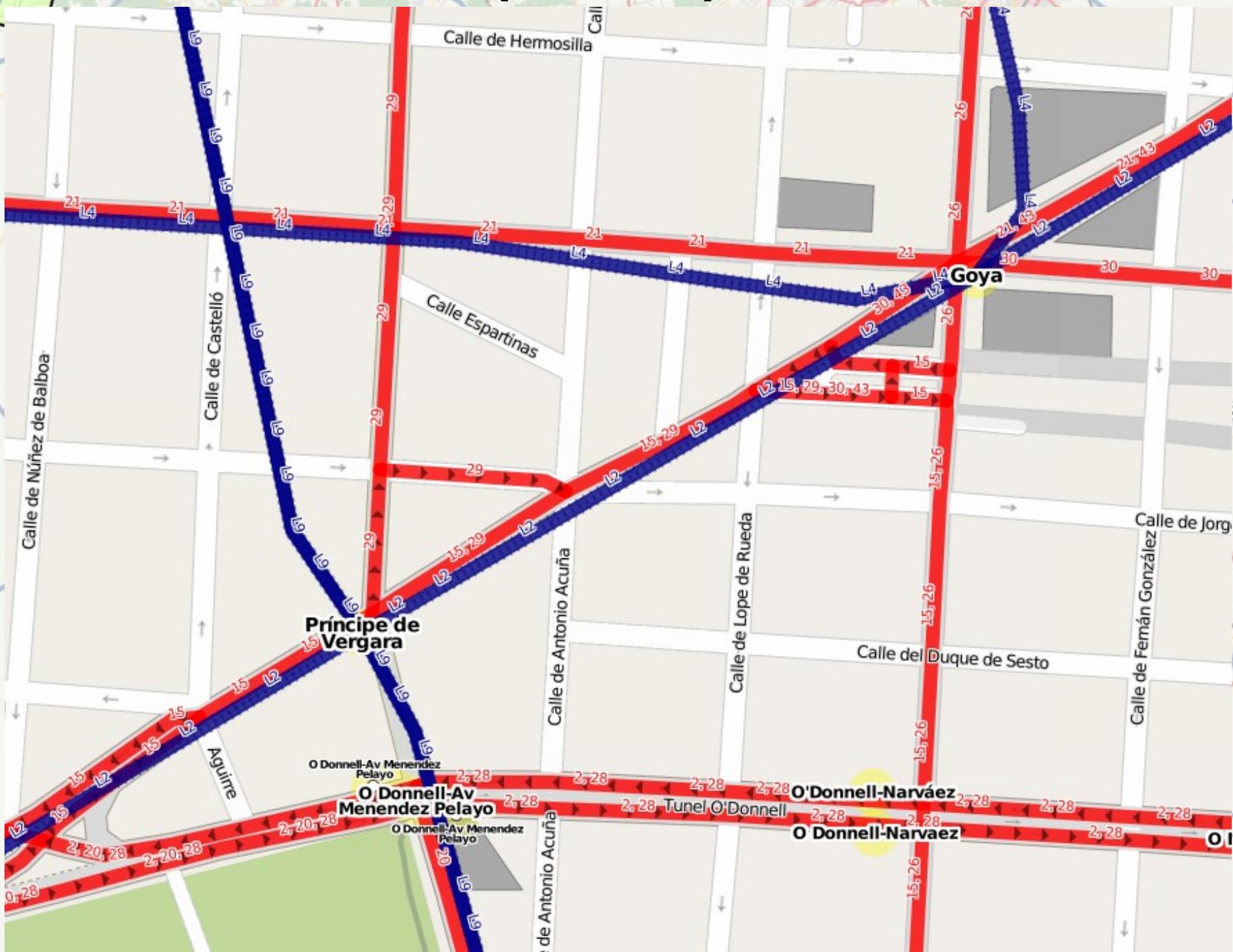




# Transporte público



# Transporte público





Valkenswaard

Venlo

Tegelen



# MAPAPEL

MAPAS PARA IMPRIMIR

Wegberg

Wassenberg

twitter

Iniciar sesión | Únete a Twitter!

Hoy publicamos Mapapel, mapas para imprimir

<http://bit.ly/doTHkO>

hace cerca de 1 horas via web



tagzania

TAGZANIA





# State of the Map 2010

Venlo  
Egelen

Weert





# State of the Map 2010

<http://www.stateofthemap.org>

[Home](#) [About](#) [Register Now!](#) [Call for papers](#) [Sponsors](#) [Practical](#) [Contact](#)

**SotM**  
STATE OF THE MAP

## State Of The Map 2010

The 4th Annual International OpenStreetMap Conference  
Girona, Spain, July 9th – 11th, 2010

OpenStreetMap links:

[The Map](#)

[The Wiki](#)

[SOTM10 twitters](#)



Lanaken Heerlen Landgraaf Aldenhoven  
Maastricht Herzogenrath Würselen Eschweiler  
Aachen



# State of the Map 2010

<http://www.stateofthemap.org>

[Home](#)

[About](#)

[Register Now!](#)

[Call for papers](#)

[Sponsors](#)

[Practical](#)

[Contact](#)

**SotM**  
STATE OF THE MAP

## State Of The Map 2010

The 4th Annual International OpenStreetMap Conference  
Girona, Spain, July 9th – 11th, 2010

OpenStreetMap links:

[The Map](#)

[The Wiki](#)

[SOTM10 twitters](#)



Lanaken

Maastricht

Heerlen

Landgraaf

Herzogenrath

Würselen

Aachen

Aldenhoven

Eschweiler



Turks and Caicos Islands

Holguín

Santiago de Cuba

Nord-Ouest

Monte Cristi Puerto Plata

Nord

Gonaïves

Dajabón Mao

Moca Nagua

Haiti

República Dominicana

Comendador

Yamasá Hato Mayor Higüey

Grande-Anse

Ouest

Santo Domingo

Sud

Sud-Est

Barahona

Bani

Pedernales

Port Antonio  
Kingston





## [OSM-talk] GeoEye Haiti imagery Ok'd

**De:** Mikel Maron <mikel\_maron@yahoo.com>

**Para:** talk@openstreetmap.org

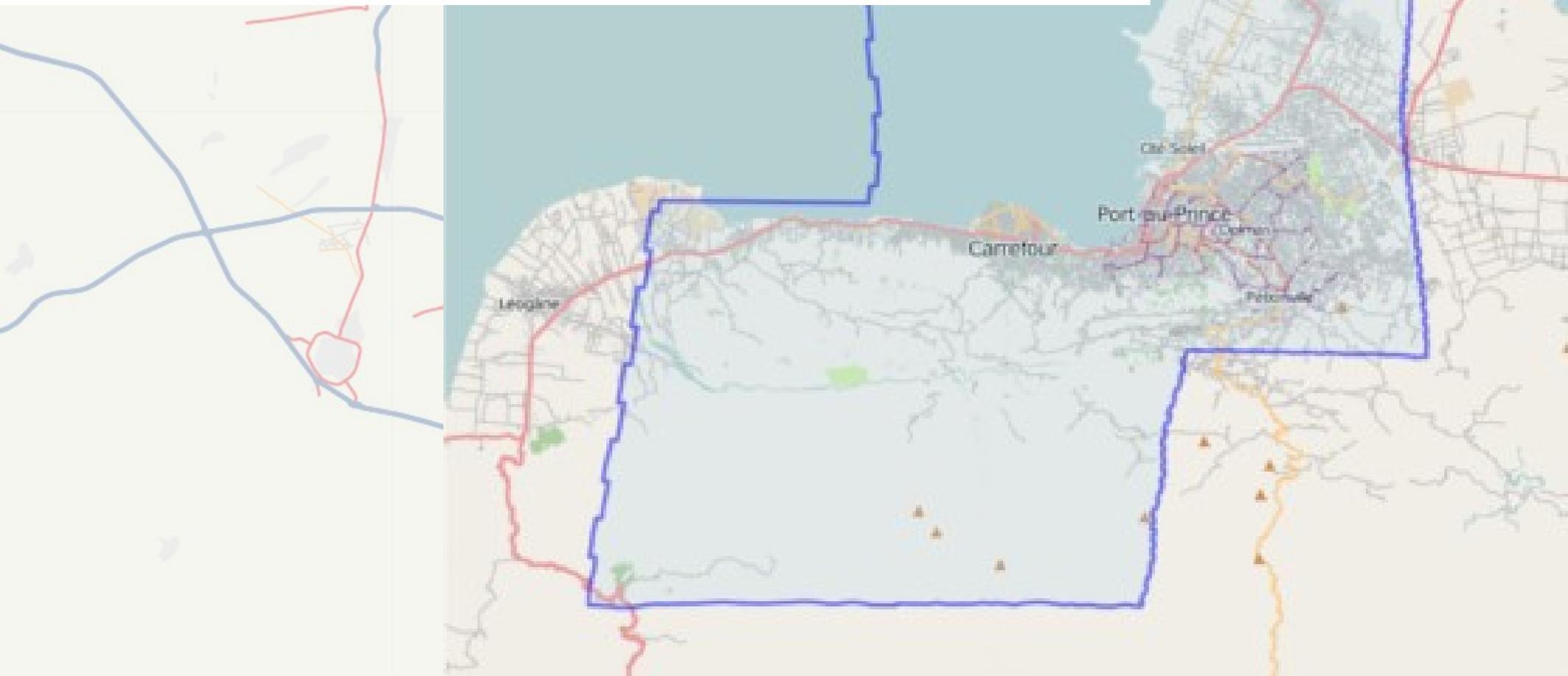
**Fecha:** 14-01-10 18:54

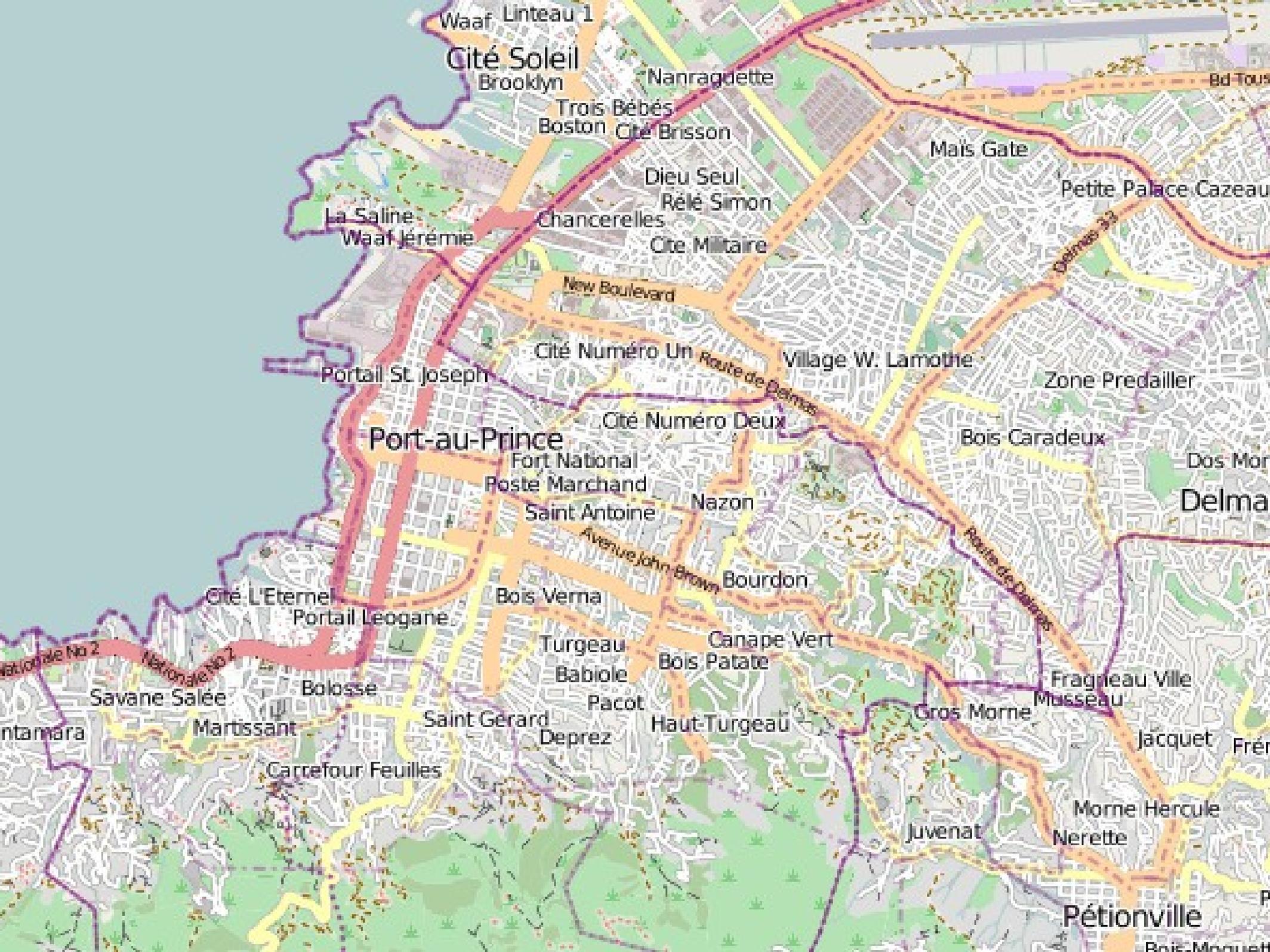
OSM has permission to use the imagery, as long as we give credit.

I suggest using the source tag for this.

Tiles are needed from the GeoTIFF.

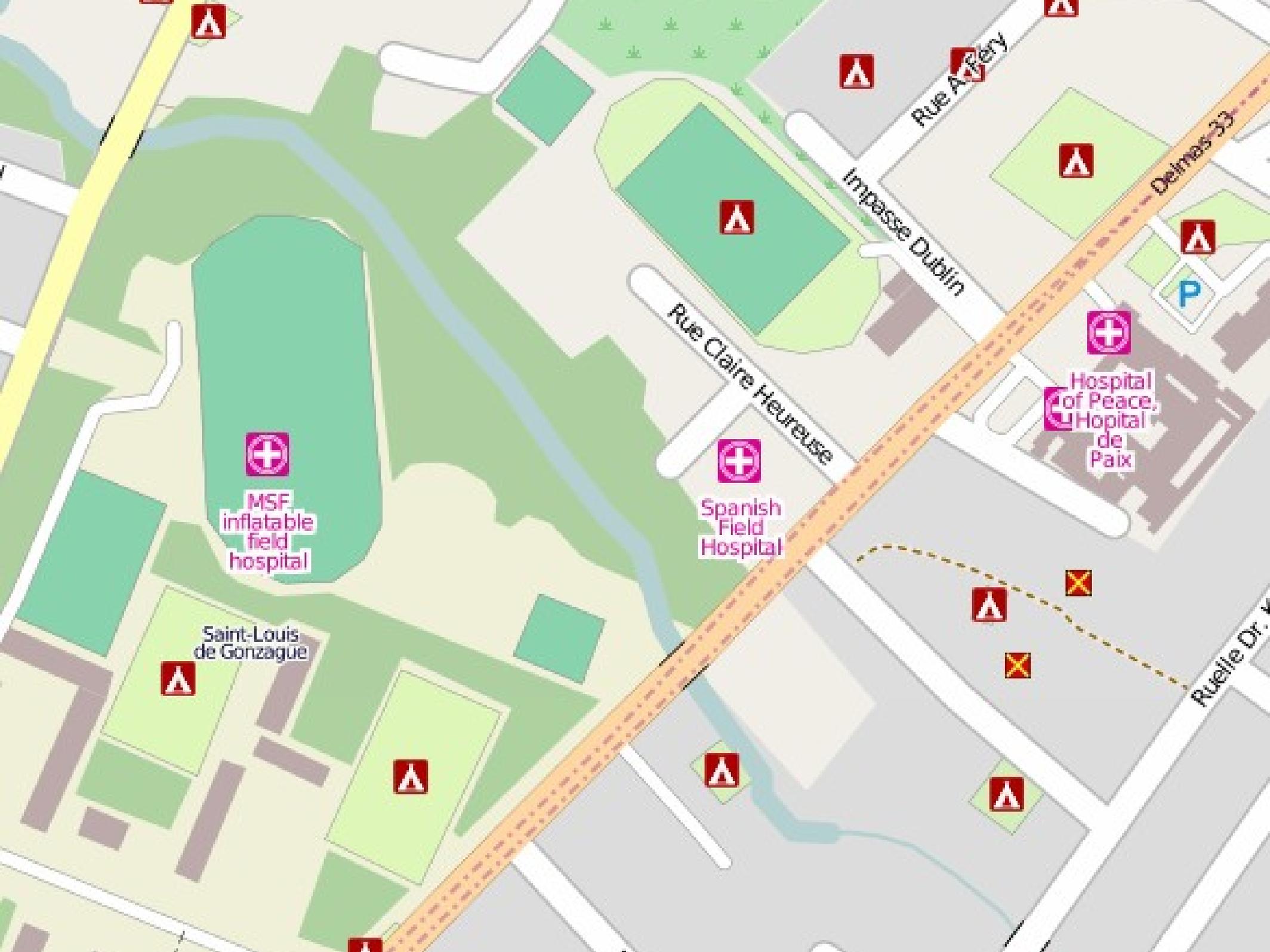
Details at [http://wiki.openstreetmap.org/wiki/WikiProject\\_Haiti#GeoEye](http://wiki.openstreetmap.org/wiki/WikiProject_Haiti#GeoEye)











MSF inflatable field hospital

Saint-Louis de Gonzague

Spanish Field Hospital

Hospital of Peace, Hospital de Paix

Rue A. Ferry

Impasse Dublin

Rue Claire Heureuse

Delmas 33

Ruelle Dr. V.



## Legend

- Critical Infrastructures**
- Working Hospital
  - Hospital/Clinic destroyed
  - Embassy
  - Government buildings
  - Hotel
  - Industry
  - Infrastructure
  - Media
  - Schools
  - University
- Roads**
- primary
  - secondary
  - residential



**GDACS Situation Report**  
 On 12:00:00 (UTC) on 15/01/2010 an earthquake of magnitude 7.0 has struck an very highly populated area in the Capital Port-au-Prince (population 3.0 million) in Haiti. 300,000 people are thought to have lost or had of international communication (connection to its high speed early reports speak about more than 100,000 casualties).

CLIDE No. Eq-2010-000009-HTI

**Map Information**  
 The map presents the area of the Haiti Earthquake (15 January 2010). Aerial view (DigitalGlobe) Satellite image of 15 January 2010 is overlaid by road layer and the Critical Infrastructures (CIS) layer with symbols of various data from JRC.  
 Spatial Reference: UTM, WGS 1984  
 Map Scale: 1:100,000  
 Date/Reference: 15th of January 2010  
 Background Data: Satellite 1 (DigitalGlobe)

**A joint initiative of the United Nations and the European Commission**

The Global Disaster Alert and Coordination System provides near real-time alerts about natural disasters around the world and aims to facilitate response coordination, including media monitoring, map intelligence and Visual On-Site Operations Coordination Centre.

[www.gdacs.org](http://www.gdacs.org)  
 Contact GDACS: [gdacs@un.org](mailto:gdacs@un.org) ([gdacs@un.org](mailto:gdacs@un.org))

Map created by UNDP Team - Disaster - 15/01/2010. All rights reserved.

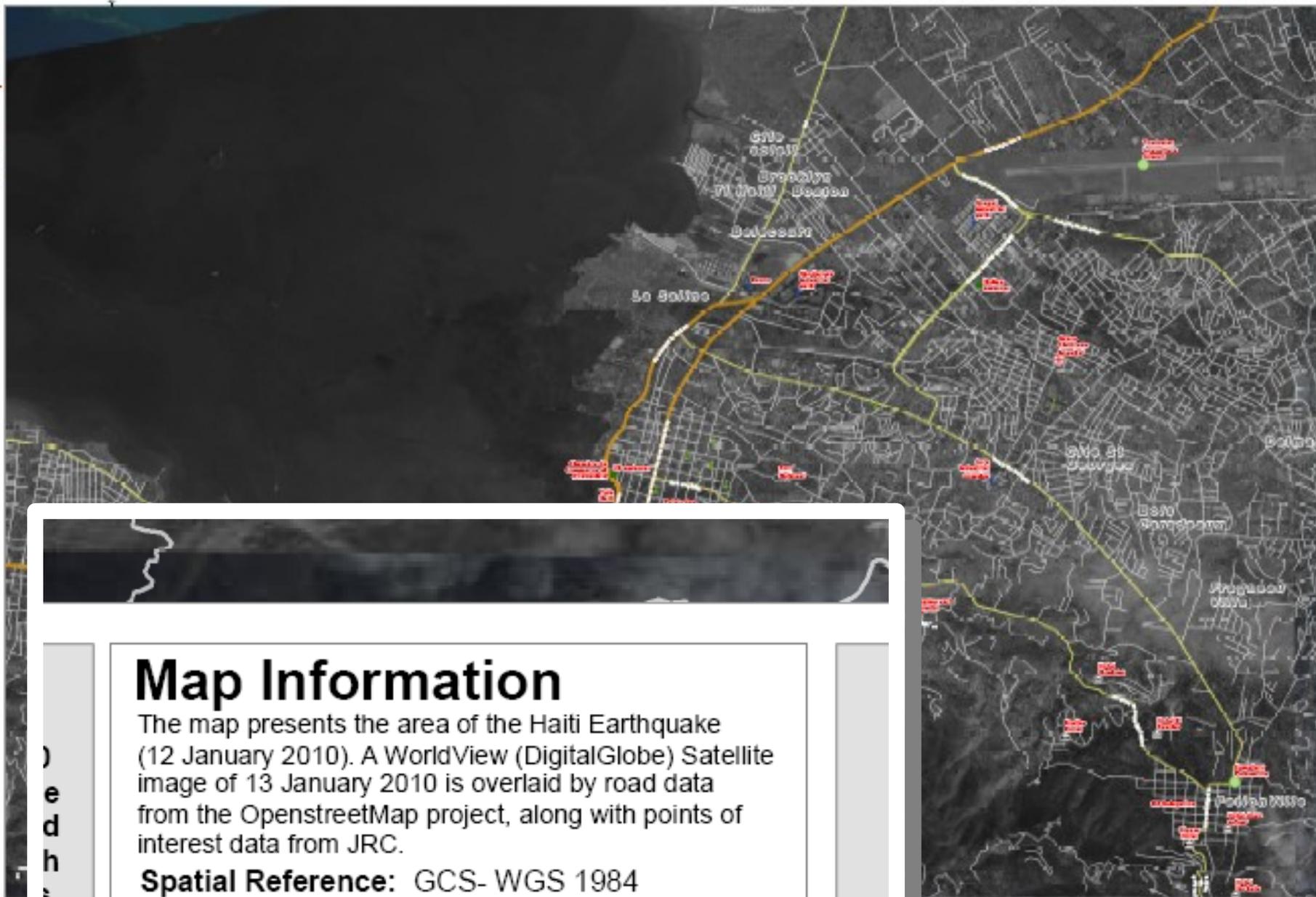


## Legend

### Critical Infrastructures

- Working Hospital
- Hospital/Clinic destroyed
- Embassy
- Government buildings
- Hotel
- Industry
- Infrastructure
- Media
- Schools
- University

- ### Roads
- primary
  - secondary
  - residential



## Map Information

The map presents the area of the Haiti Earthquake (12 January 2010). A WorldView (DigitalGlobe) Satellite image of 13 January 2010 is overlaid by road data from the OpenstreetMap project, along with points of interest data from JRC.

**Spatial Reference:** GCS- WGS 1984

**Map Scale:** 1:15 000 (A0)

**Time Reference:** 12th of January 2010

**Background Data:** WorldView-1 (13/1/2010)

A joint initiative of the United Nations and the European Commission



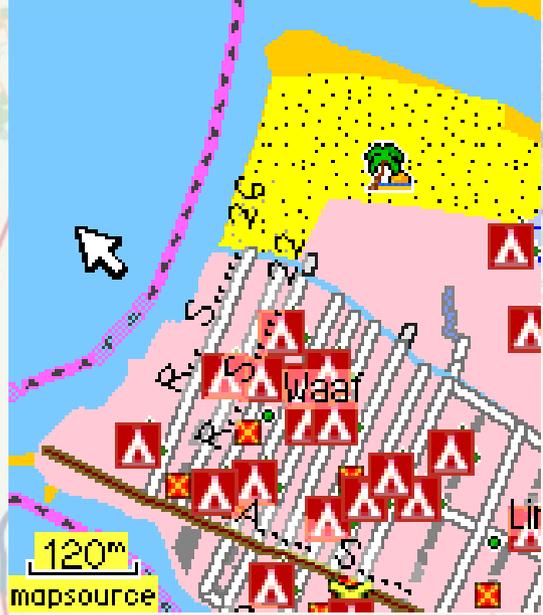
The Global Disaster Alert and Coordination System provides near real-time alerts about natural disasters around the world and sets in motion response coordination, including media monitoring, map catalogues and Visual On-Site Operations Coordination Centre.

[www.gdas.org](http://www.gdas.org)  
Contact: [gdacs@un.org](mailto:gdacs@un.org) / [gdacs@ec.europa.eu](mailto:gdacs@ec.europa.eu)

Map created by UN/ISDR Team - Disaster - 15/01/2010. All rights reserved.



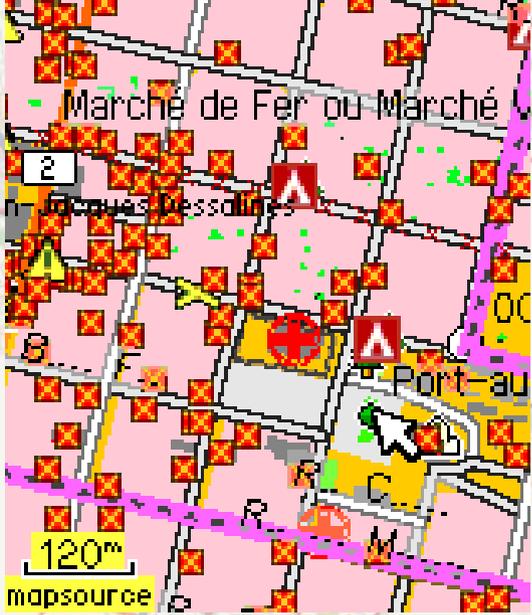
Ocean/Sea  
N 18°34.970' W 072°20.487' 8152.9m



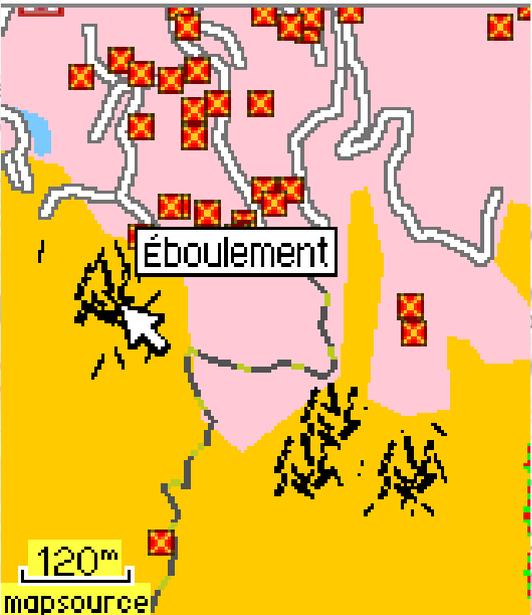
Médecins Sans Frontières  
N 18°34.885' W 072°19.637' 8151.5m



Port-au-Prince  
N 18°32.957' W 072°20.359' 8155.0m



Verschieben...  
Éboulement  
N 18°30.881' W 072°22.261' 8160.1m



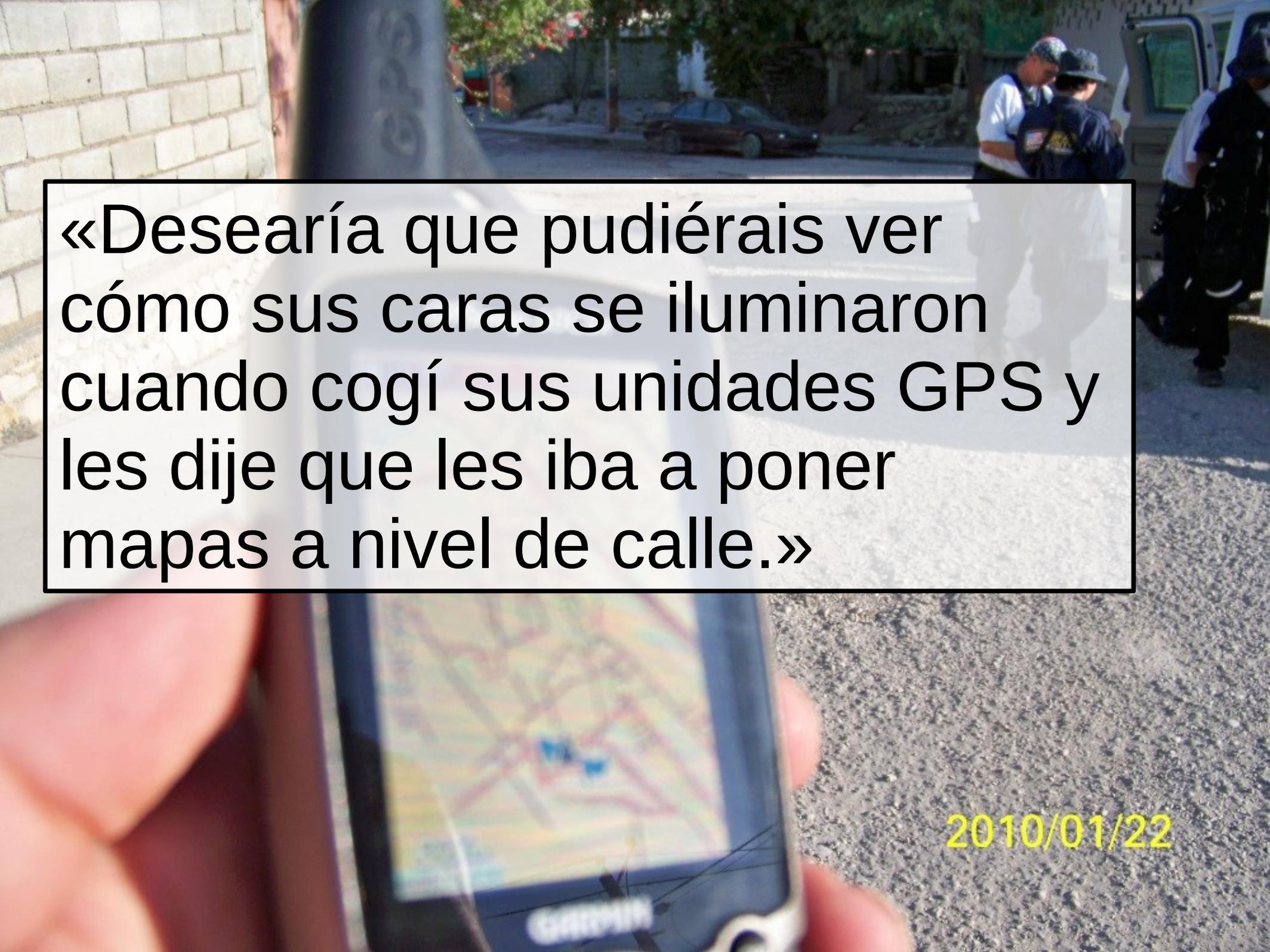


GPSmap 60CSx



GARMIN

2010/01/22



«Desearía que pudiérais ver cómo sus caras se iluminaron cuando cogí sus unidades GPS y les dije que les iba a poner mapas a nivel de calle.»

2010/01/22



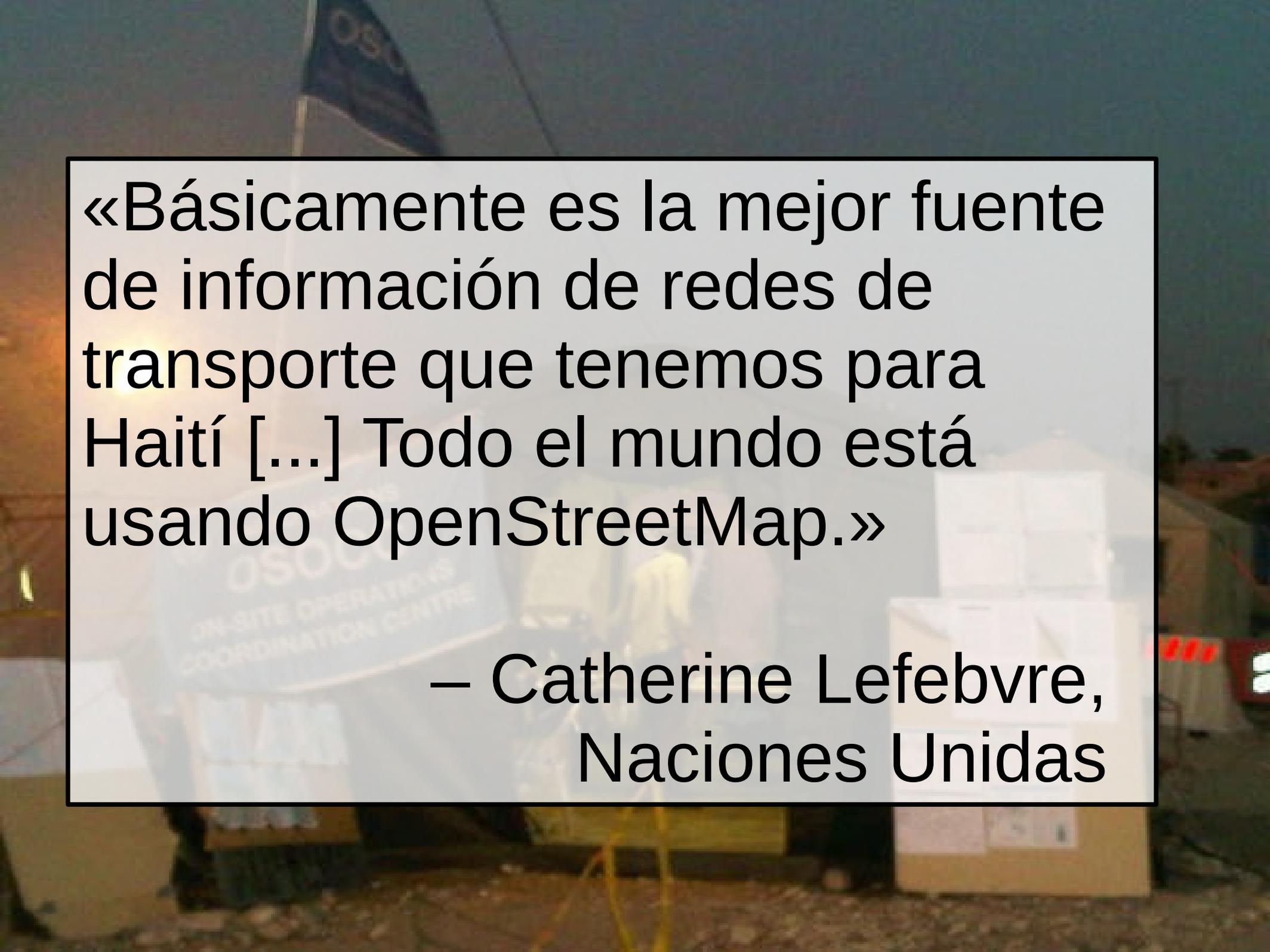




UNITED NATIONS  
**OSOCC**  
ON-SITE OPERATIONS  
COORDINATION CENTRE

OSOCC

Multiple sheets of paper and documents are pinned to a large cardboard box on the right side of the tent.



«Básicamente es la mejor fuente de información de redes de transporte que tenemos para Haití [...] Todo el mundo está usando OpenStreetMap.»

– Catherine Lefebvre,  
Naciones Unidas



# OSM y Debian

#apt-cache search openstreetmap

31 paquetes





# OSM y debian

Meritocracia

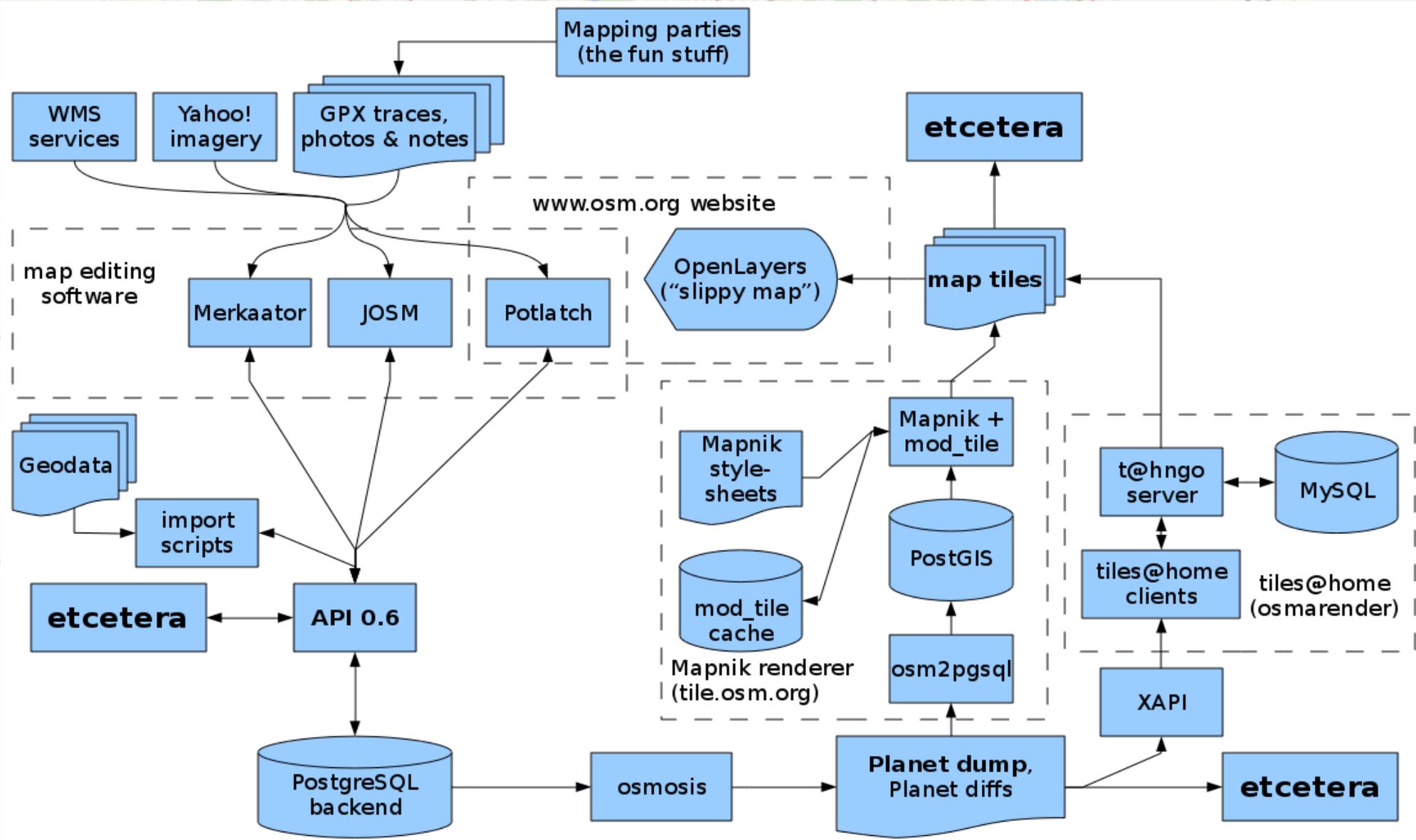
Legal-talk

Guardianes de la pureza





# Software libre





# Sitios de interés

<http://openstreetmap.org>  
Lista en español

Agradecimientos  
Iván Sánchez, Frederick Ramm,