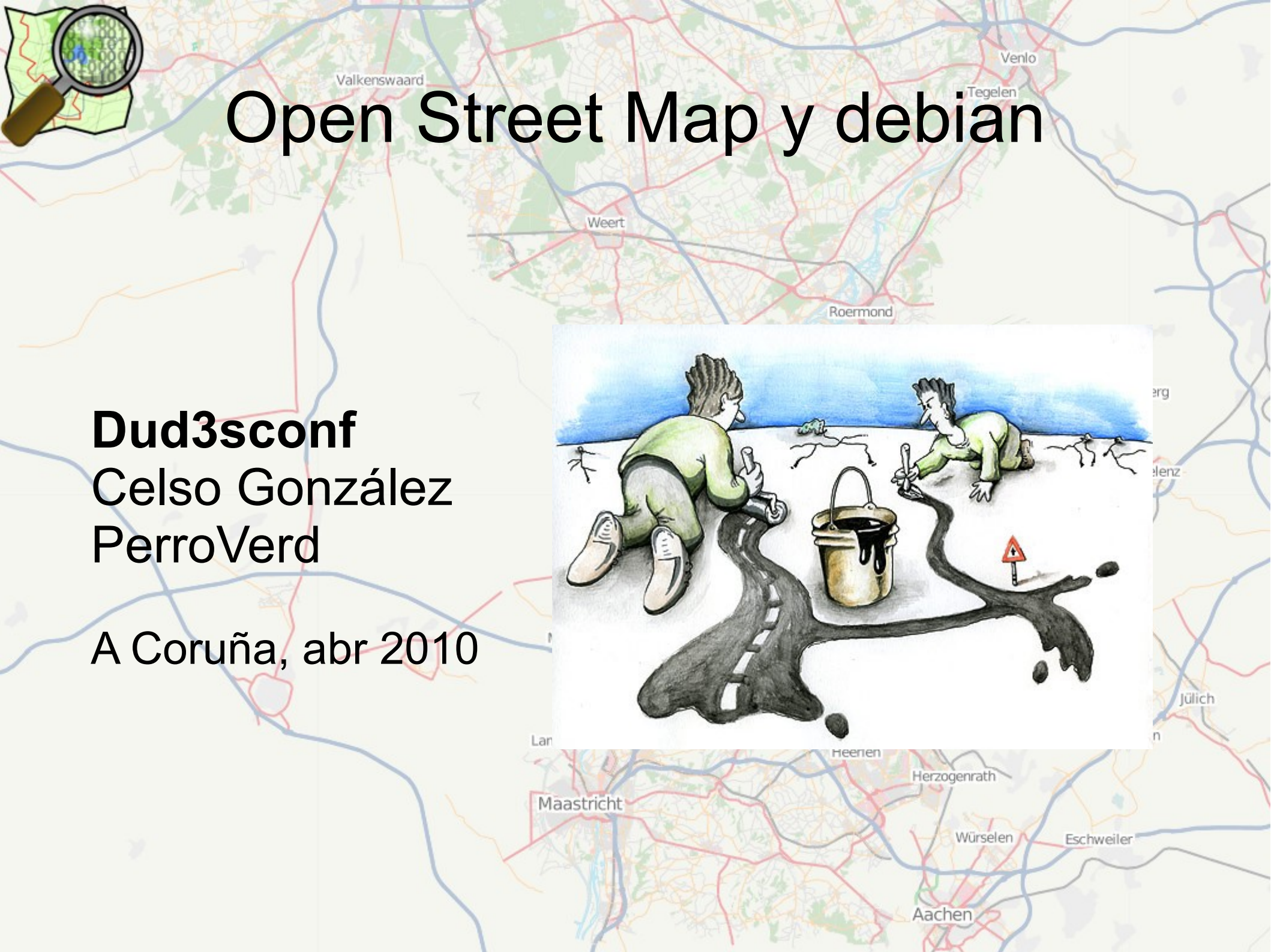




Open Street Map y debian

Dud3sconf
Celso González
PerroVerd

A Coruña, abr 2010





¿Por qué?

Pringado estándar número uno

Interés previo

Conceptos libres muy similares

Fuente de software libre



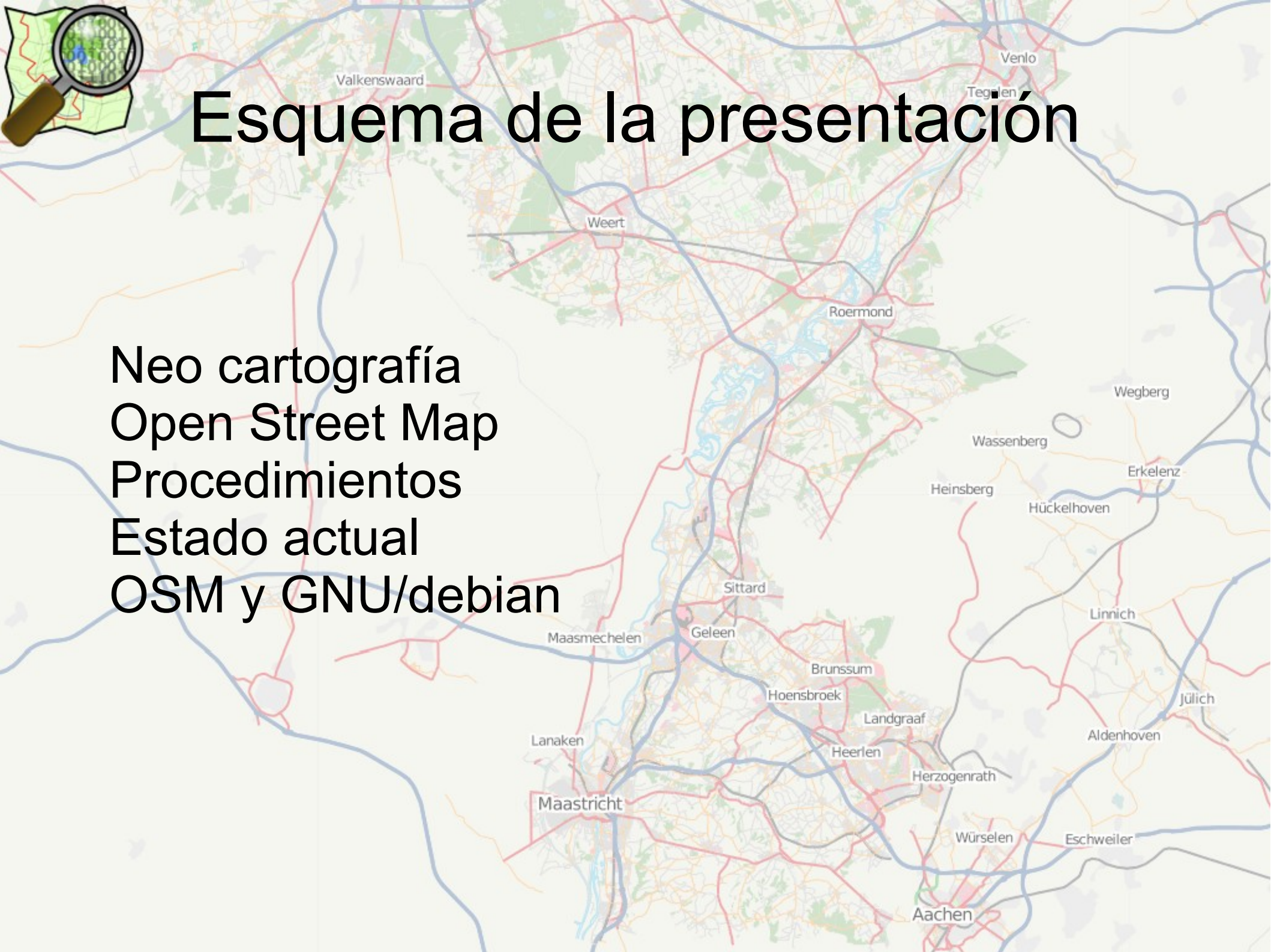
Que sí, que vale, pero...

¿¿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
Polska
Belarus
Ukraine
Germany
Austria
France
Romania
Italy
Spain
Portugal
Greece
Turkey
Kazakhstan
Uzbekistan
Turkmenistan
Afghanistan

©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)



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)

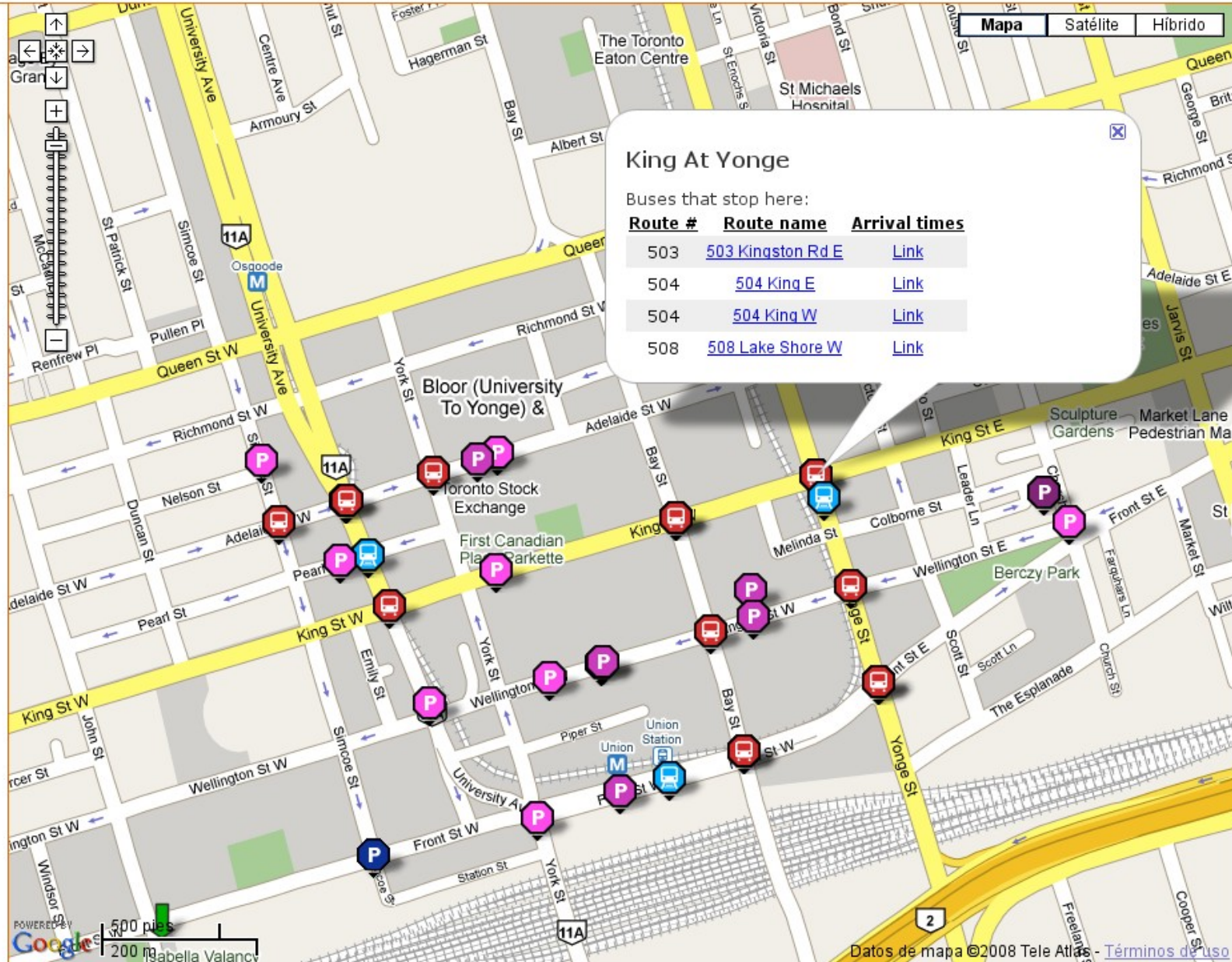
Notes:

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

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

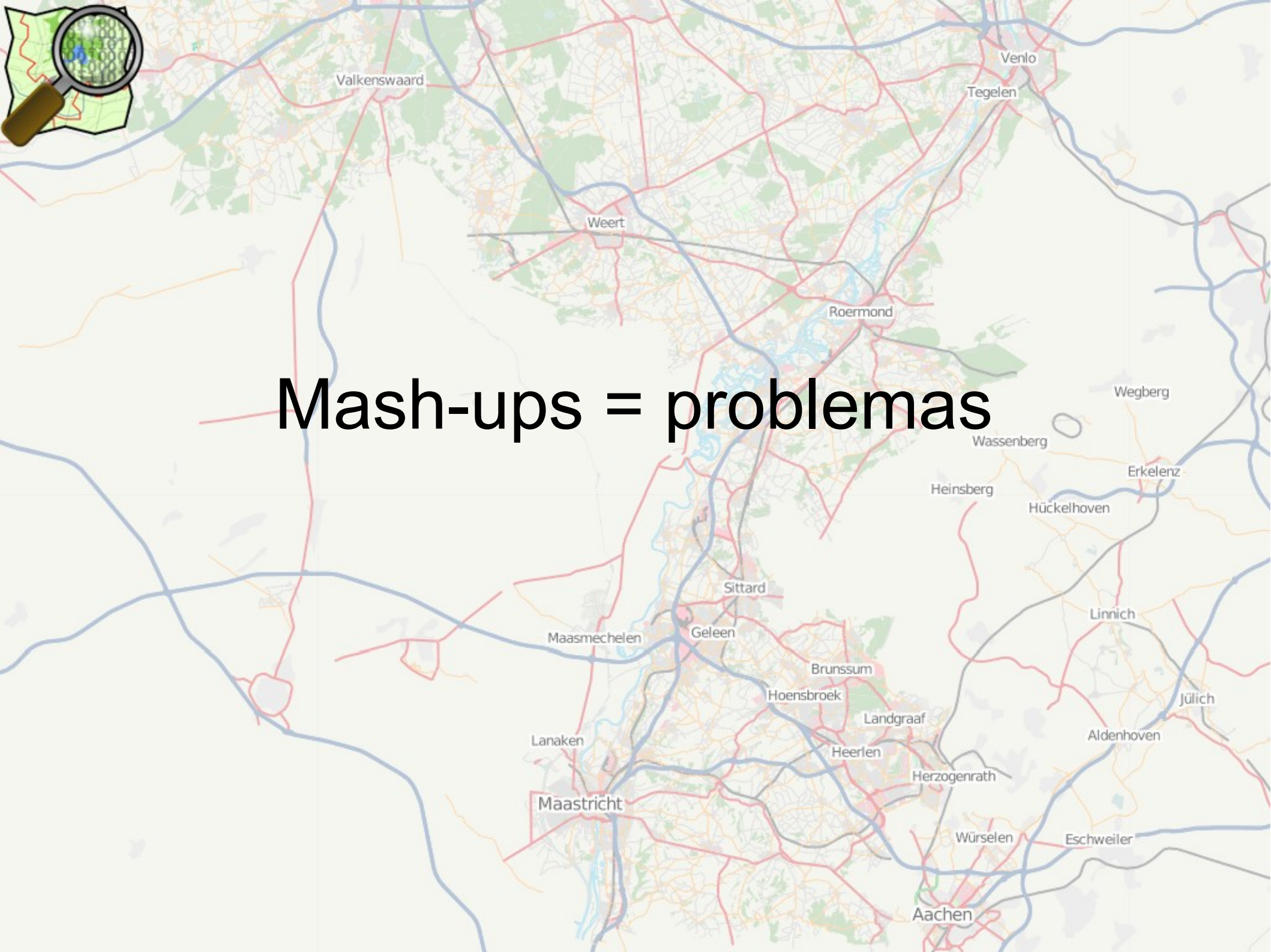


““Gratis””





Mash-ups = problemas





No se pueden quitar
datos



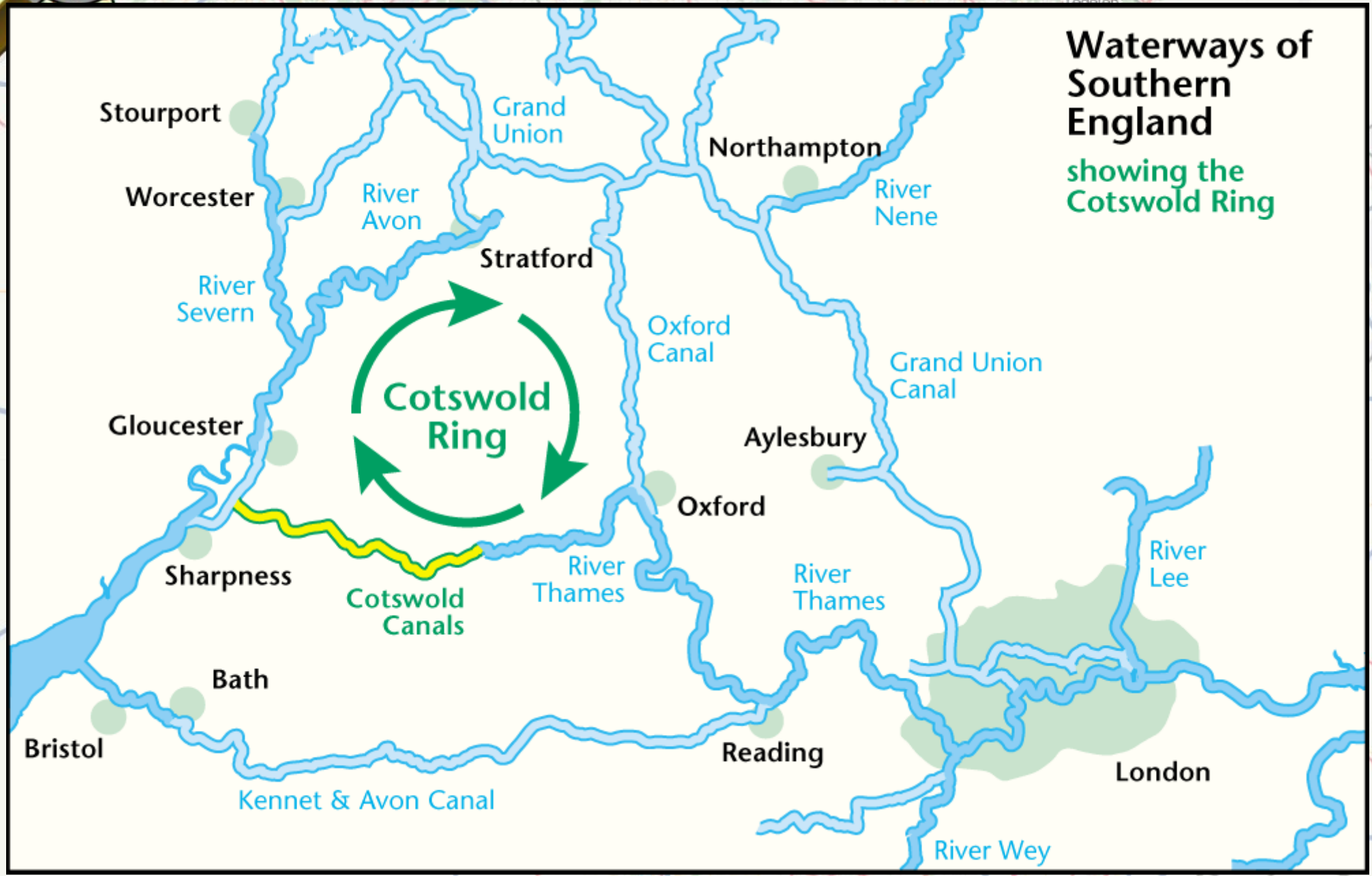


Valkenswaard

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



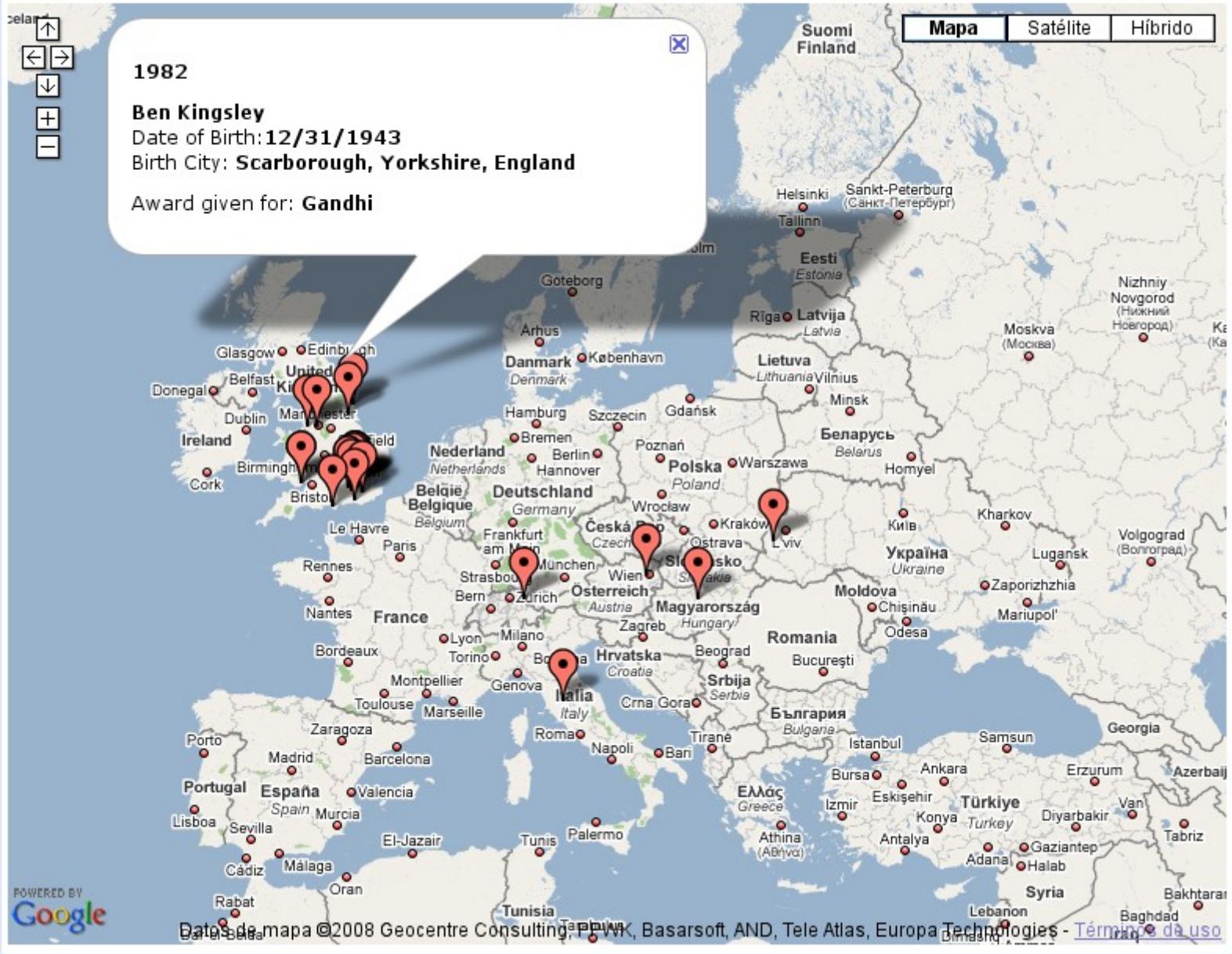
1982

Ben Kingsley

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

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

Award given for: **Gandhi**



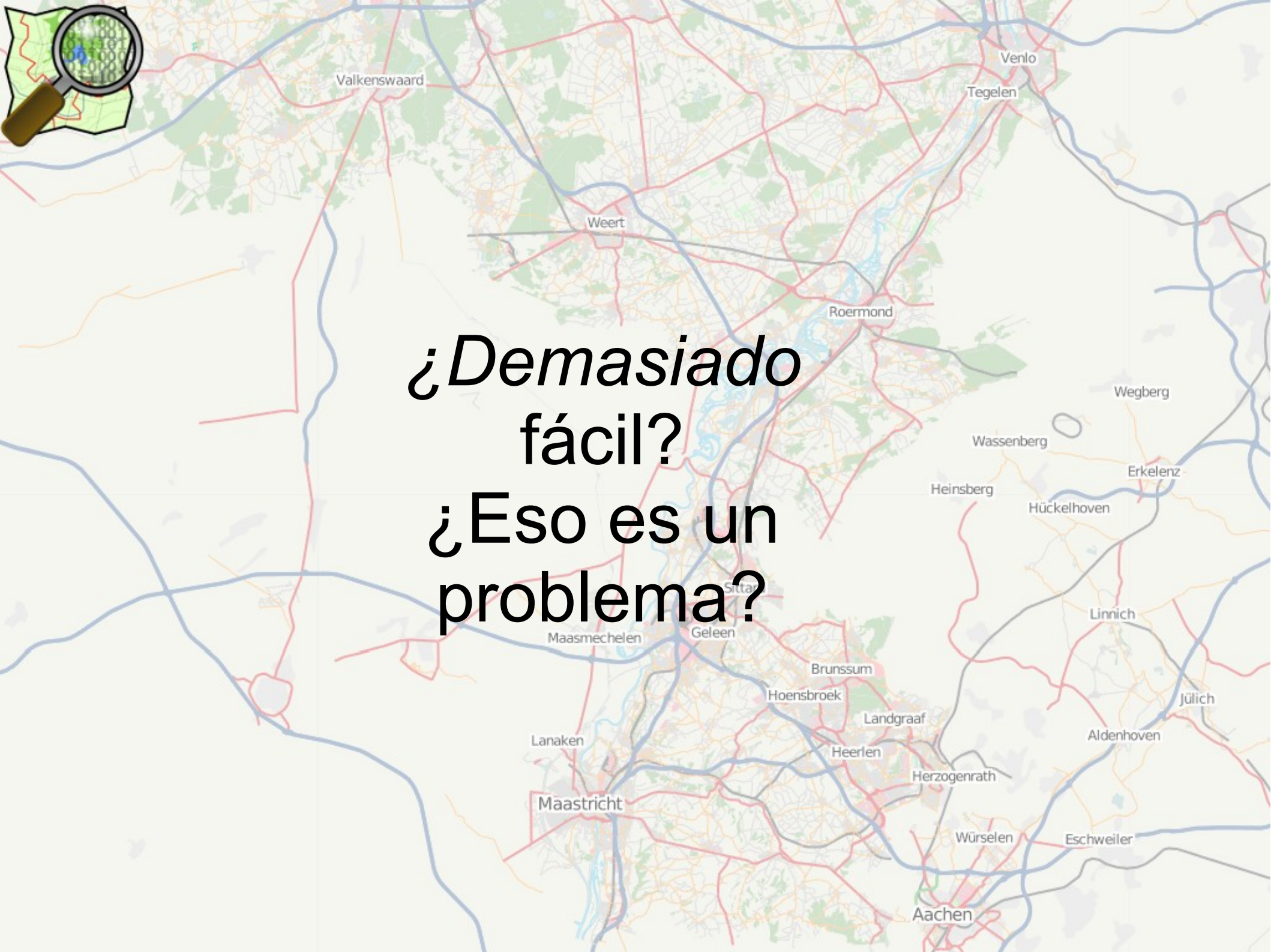


Demasiado fácil





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





Aplicaciones de experiencia amateur

**Quita protagonismo
a los profesionales**

“Google maps fatigue”





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 TechnoMaples - 5 años de uso

Mapa **Híbrida**

Niveles de circulación

info sensores Cámaras Paneles estaciones meteorológicas

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

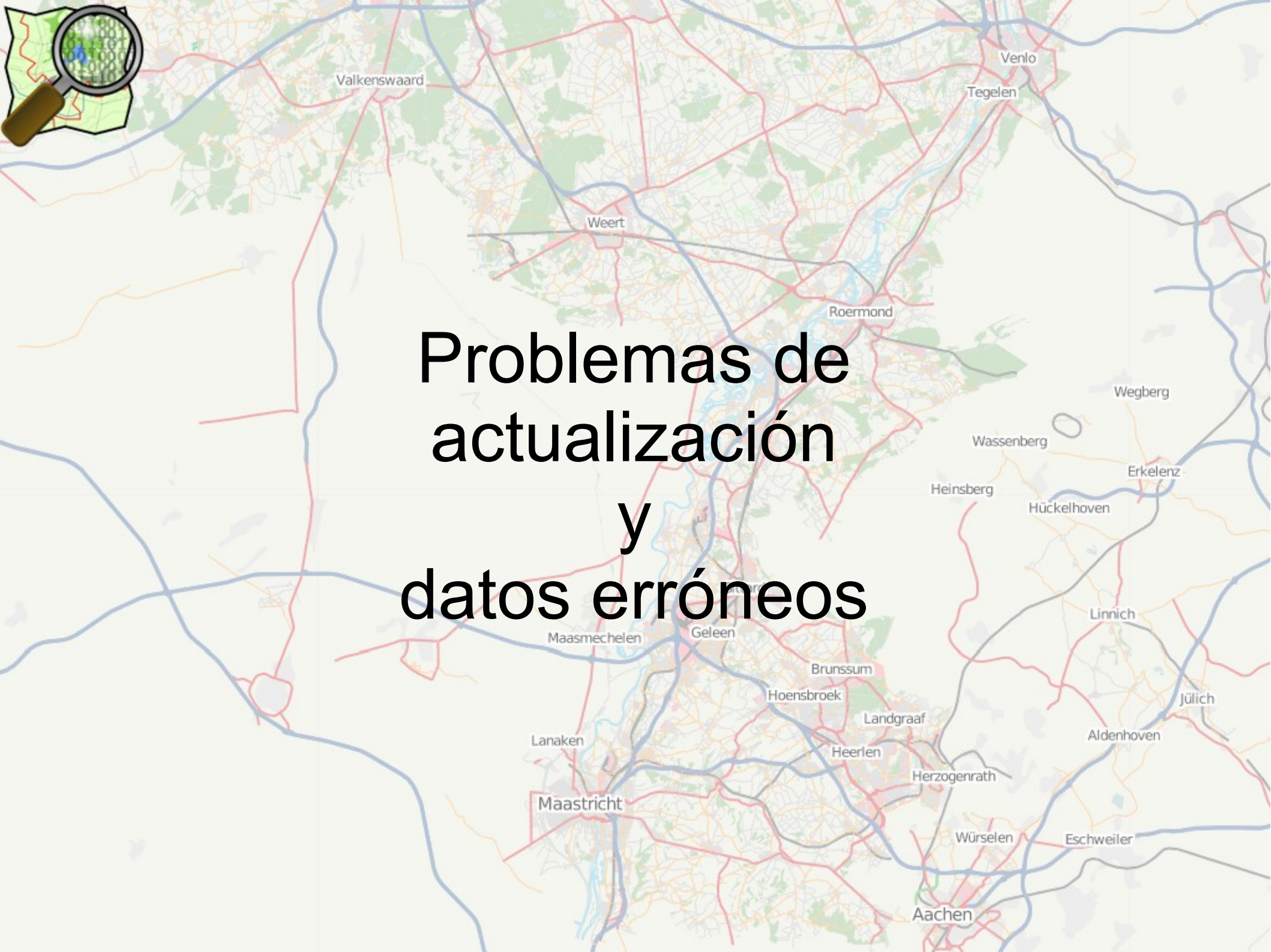
© 2008 Microsoft Corporation © 2008 NAVTEQ

© 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

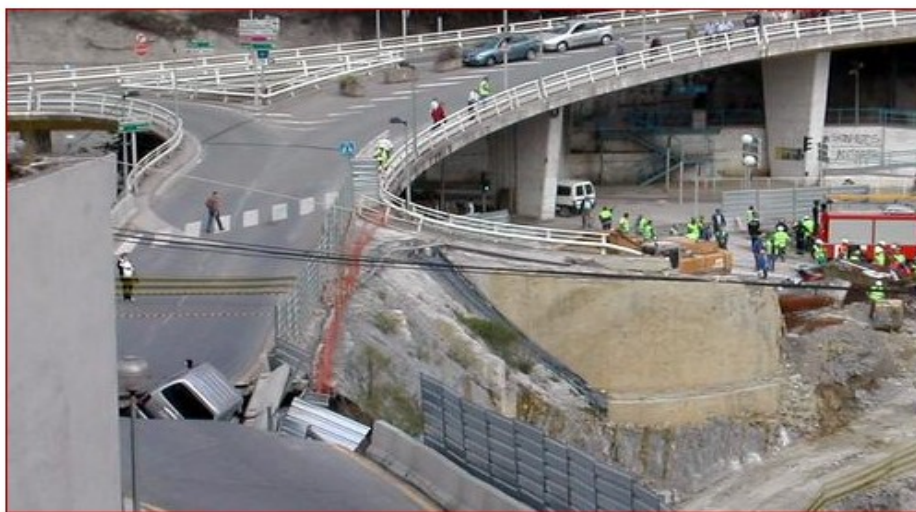


2008/09/19 08:02:06.532 GMT+2

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](#)

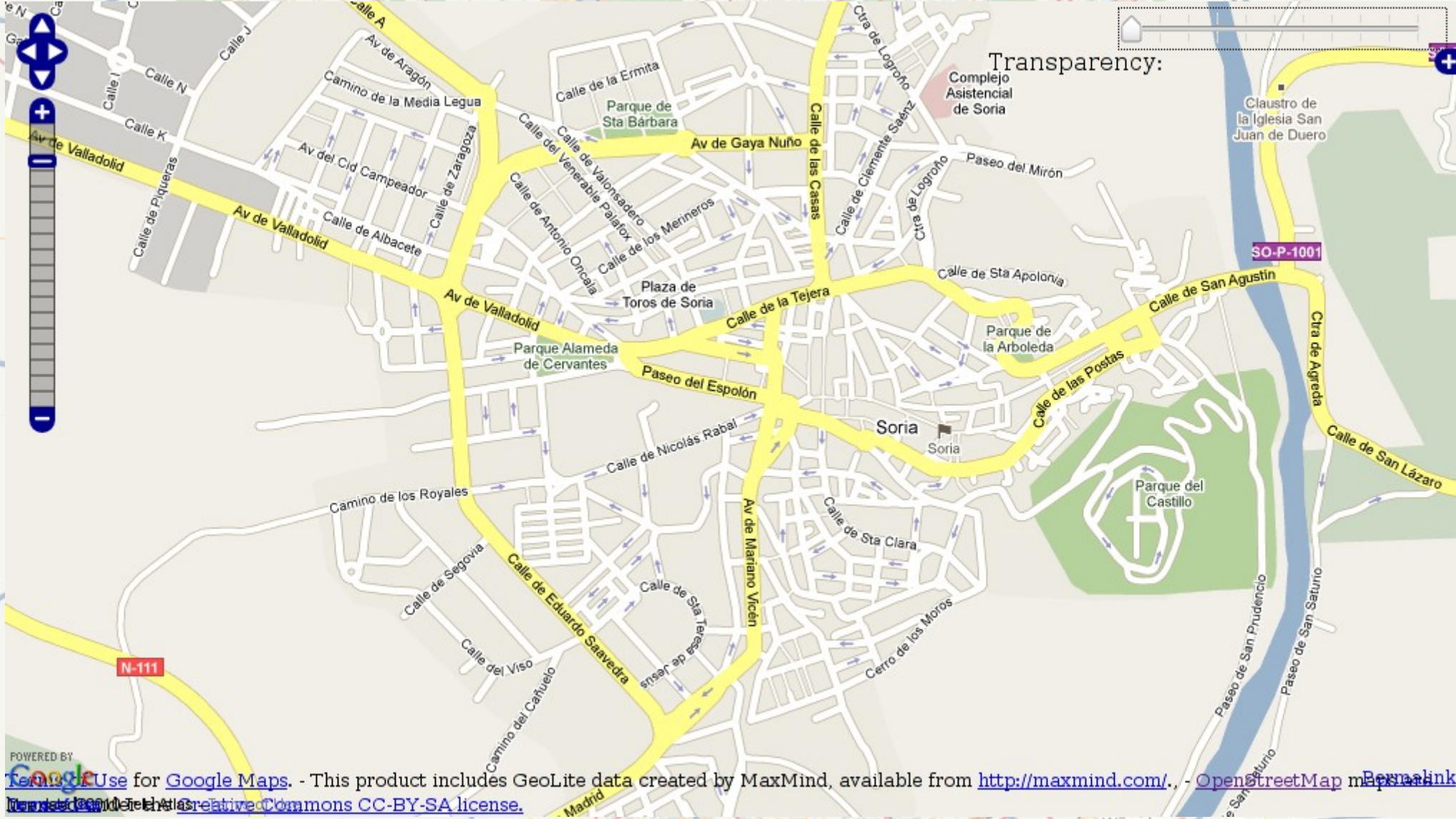
[Diez años del cierre de Egin](#)

wurserien
Eschweiler
Aachen



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



Transpa

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

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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 [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



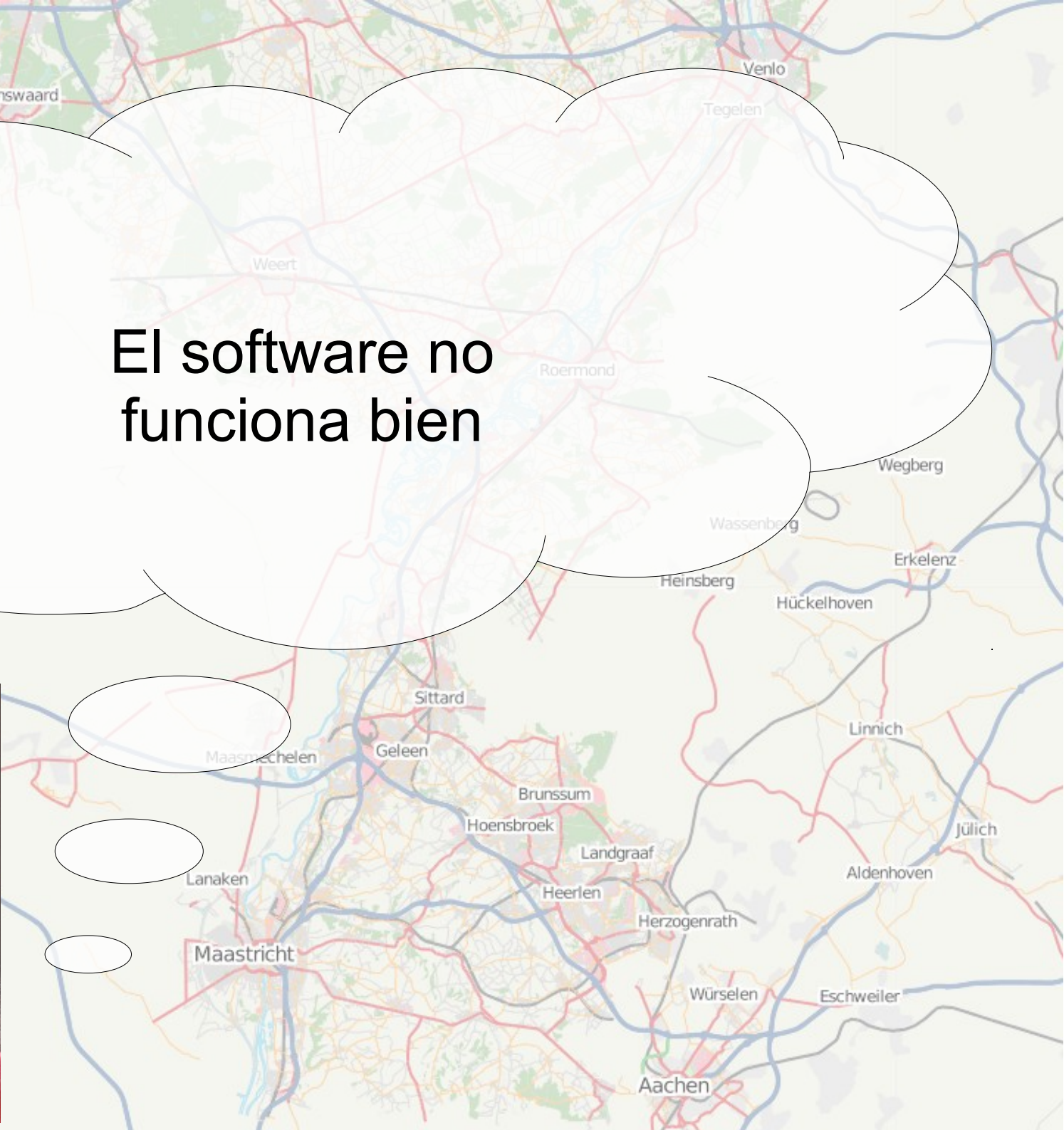


¿Qué es OpenStreetmap?





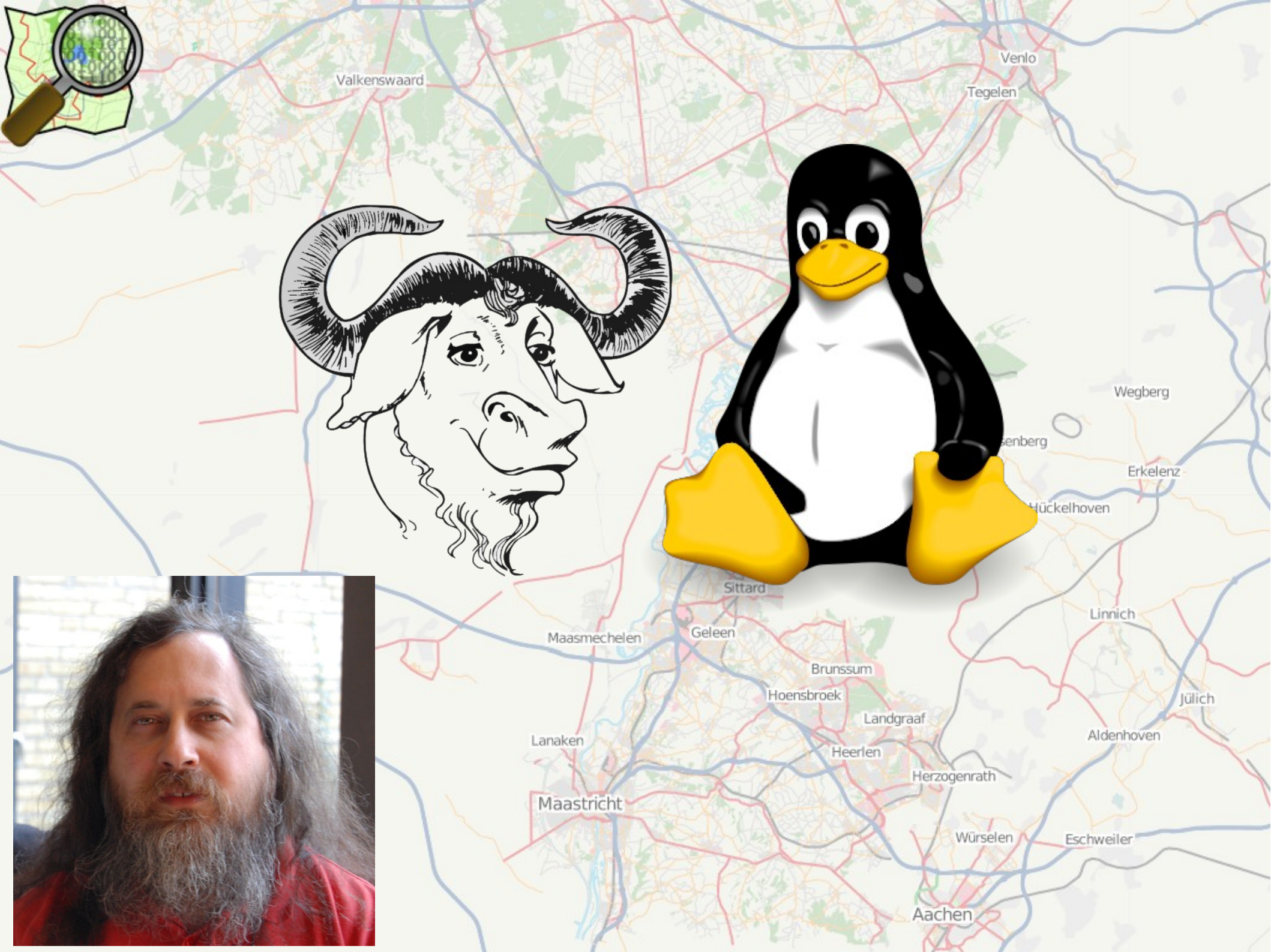
El software no funciona bien





Voy a hacer mi propio software







Las enciclopedias
no funcionan bien





Voy a hacer mi
propia enciclopedia





WIKIPEDIA

The Free Encyclopedia



Valkenswaard

Venlo
Tegelen

Wegberg

Wassenberg

Erkelenz

Heinsberg

Hückelhoven

Linnich

Jülich

Aldenhoven

Herzogenrath

Würselen

Eschweiler

Maastricht

Aachen

Lanaken

Hoensbroek

Landgraaf

Heerlen

Brunssum

Stavelot

Roermond

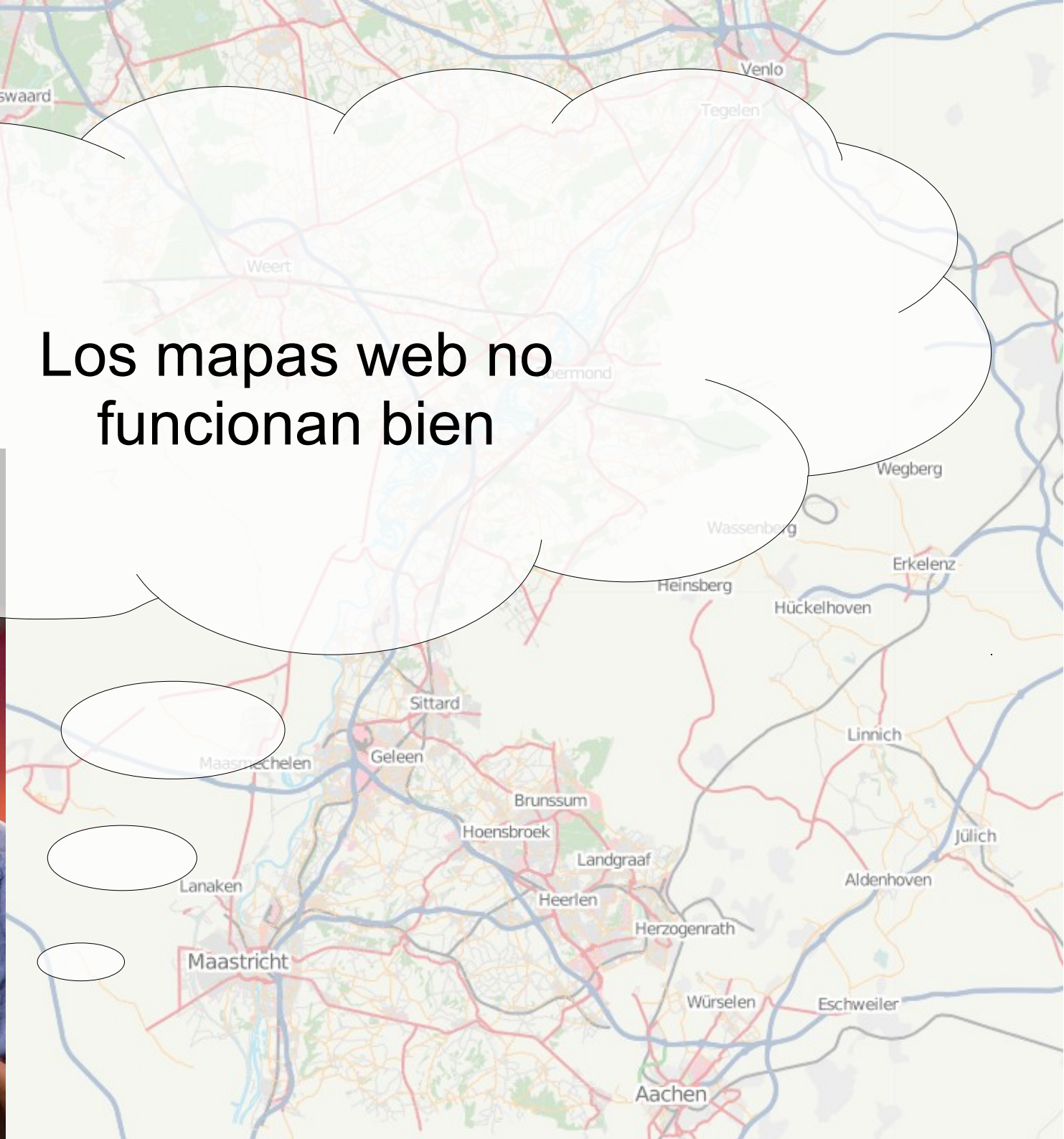
Sittard



Los mapas web no funcionan bien



James Duncan Davidson





Voy a hacer mi
propia cartografía

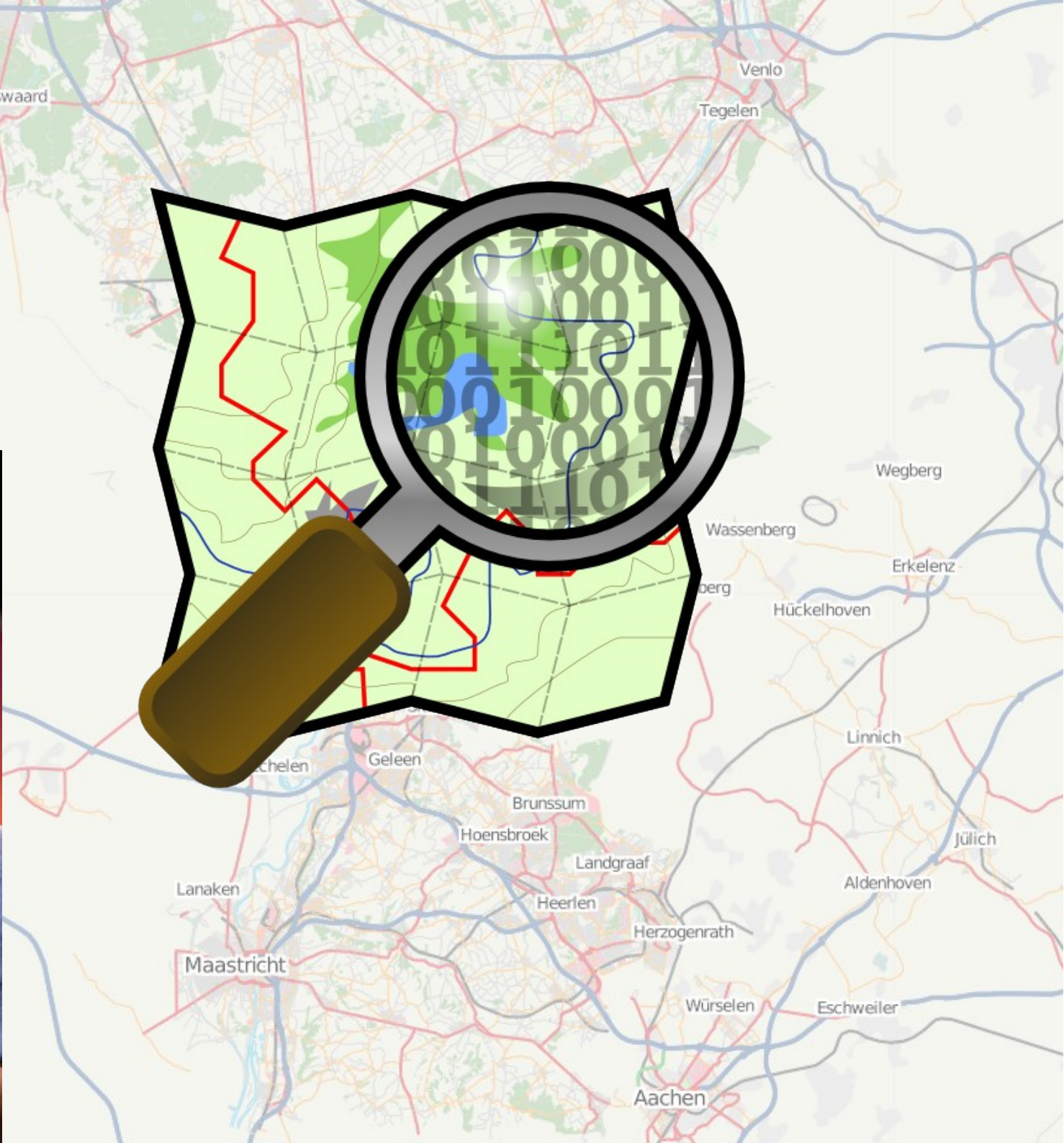


James Duncan Davidson





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!





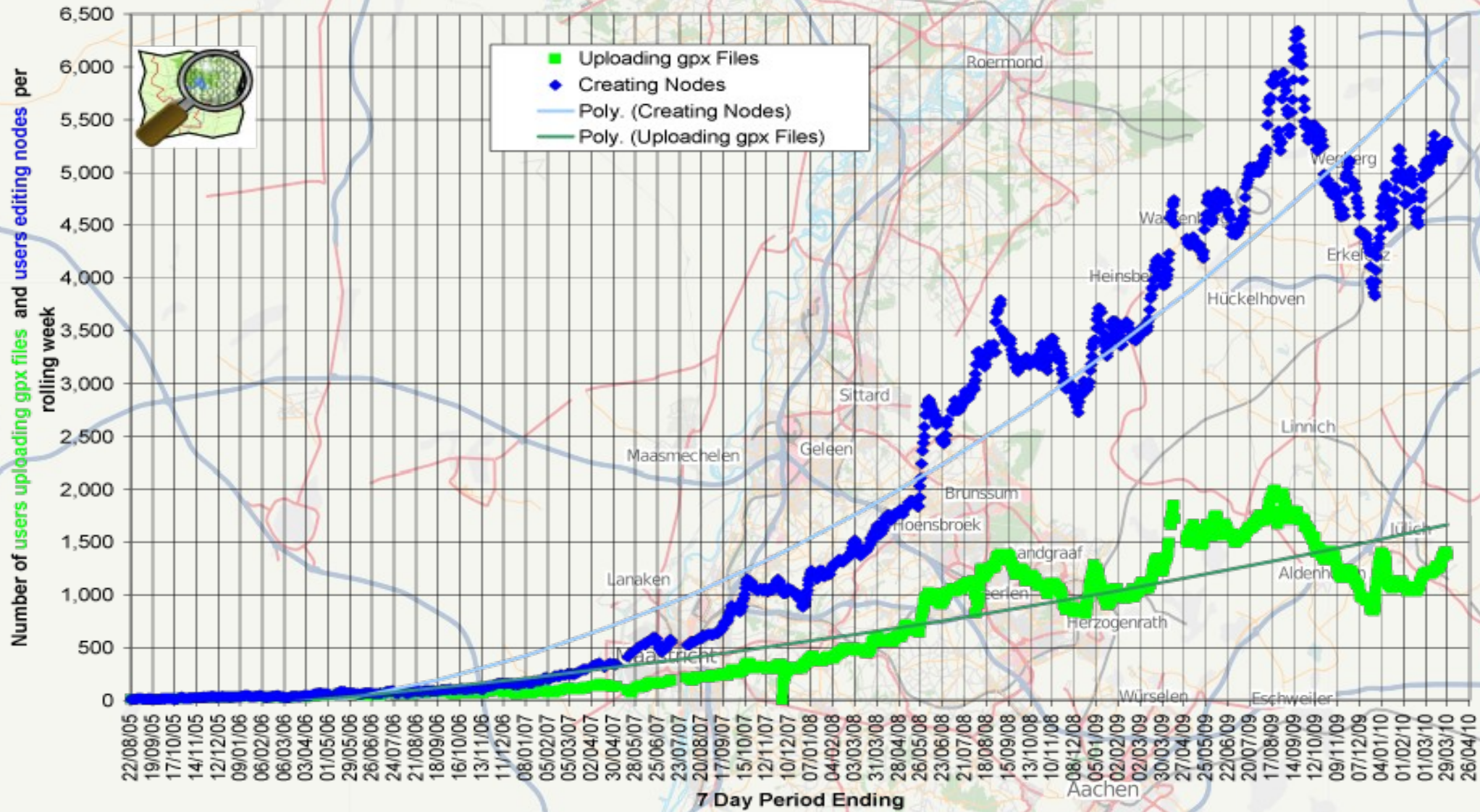
Datos

- 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
- 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.

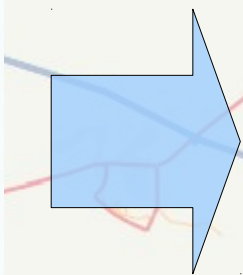
Imagery © 2006 GeoEye, i-cubed

Potlatch 0.9c





Procedimientos (Traza GPS)



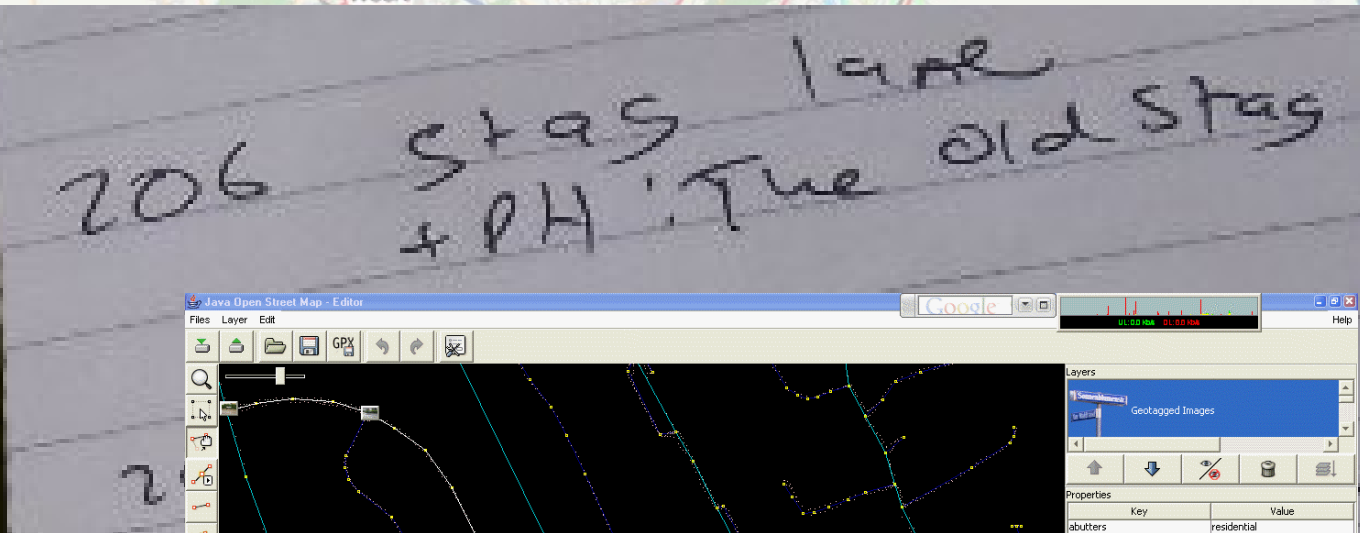
The screenshot shows a GIS application window with a menu bar (File, Edit, View, Tools, Audio, User, WMS, Presets, Help) and a toolbar. The main map area displays a yellow GPS track overlaid on a map. A scale bar indicates 18m. On the right side, there are several panels:

- Layers:** Lists 'unnamed', 'gpx 20080524.gpx', 'gpx 20080525_1.gpx', and 'Validation errors'.
- Properties/Memberships:** A table with columns 'Key' and 'Value', and 'Member Of' and 'Role'.
- Current Selection:** An empty panel.
- Validation errors:** An empty panel.

At the bottom of the window, there is a status bar showing coordinates (40.2808, -3.7308) and a zoom control.



Procedimientos (Notas o fotos georreferenciadas)



Layers

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

Properties

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

QR code



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 using two parallel lines with nodes and arrows to indicate direction. 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 [edit]

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 [edit]

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 [edit]

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.

motorway [edit]

back to Key:highway

Description:

Motorways are high capacity highways designed to safely carry fast motor traffic.

- Google definition
- User discussion

Element: help

Useful combination:

- lanes
- oneway
- name
- reference

Implies:

- `access=no`
- `motorcar=yes`
- `hgv=yes`
- `oneway=yes`

Used combinations in:

- France
- Germany
- Italy
- Netherlands
- Spain
- Turkey



Hardware (OSM)

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





Software (Cycle map)

- Red de rutas en bicicleta en Gran Bretaña

gravitystorm.co.uk

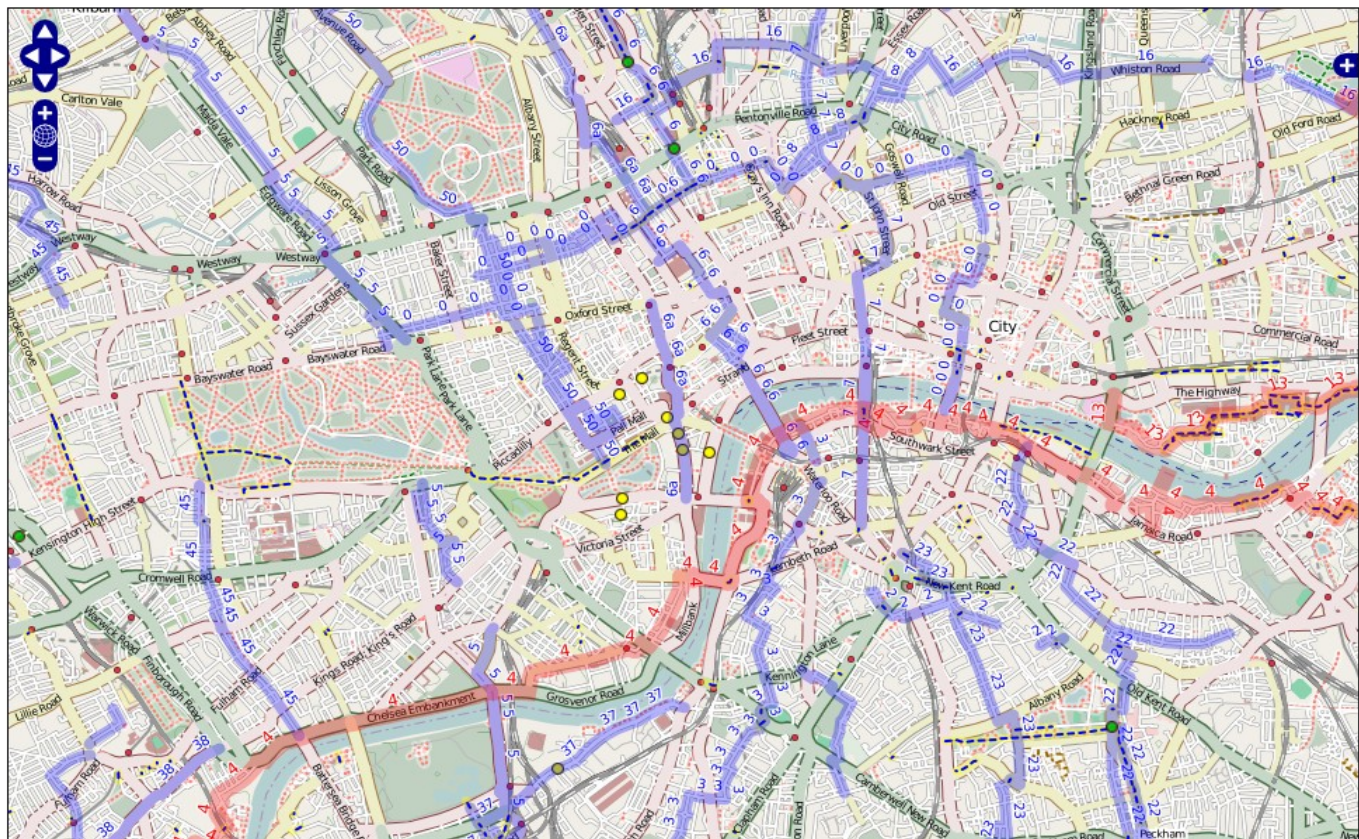
[Home](#) [Weblog](#) [DVDs](#) [Photos](#) [OSM](#) [Contact](#)

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](#)

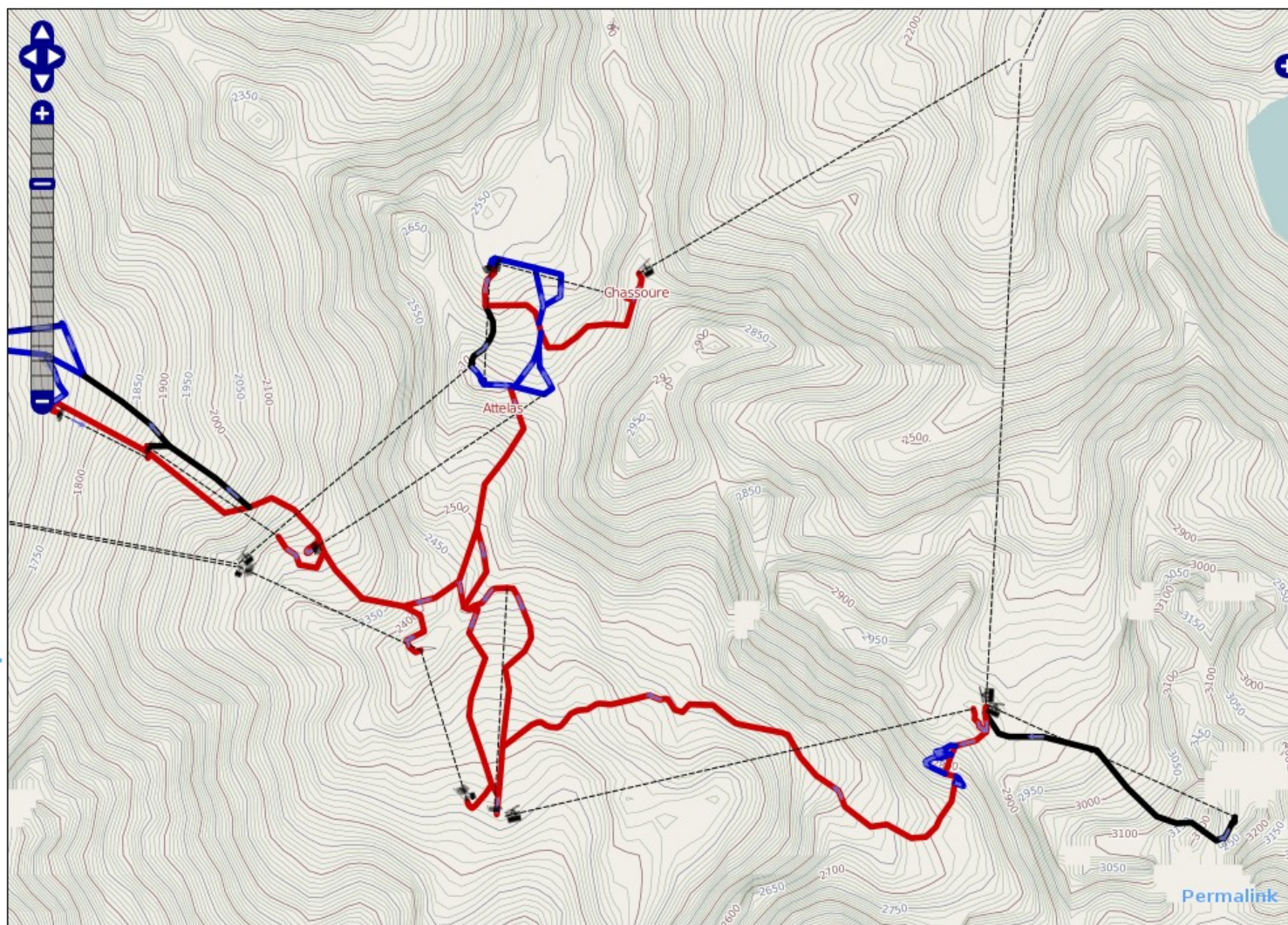
(OpenStreetMap Foundation and contributors)

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. 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

Routing Start End (Click on map to set Start/End!)

[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

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,

>

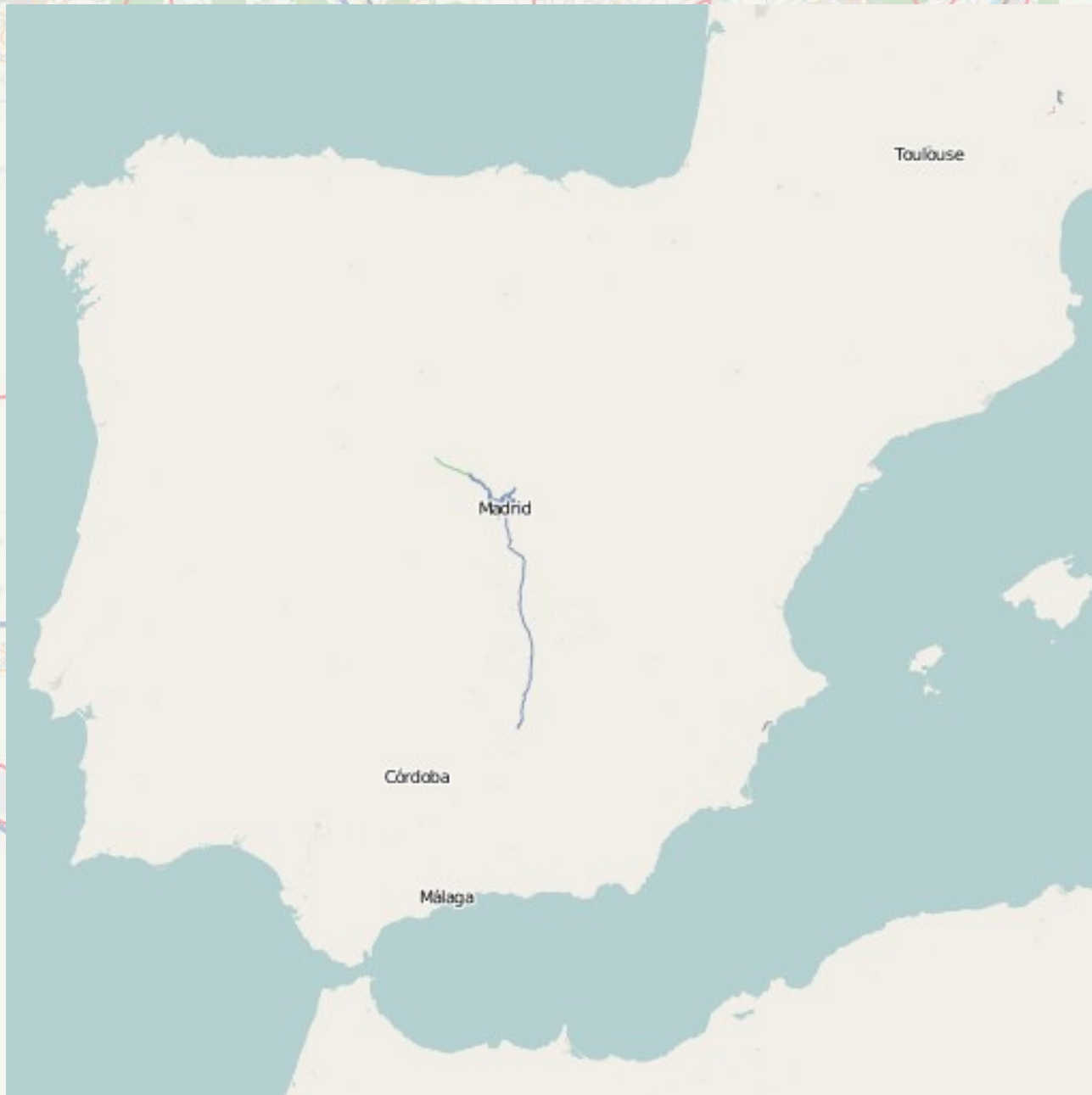
> Can I request the creation of a list for

> 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

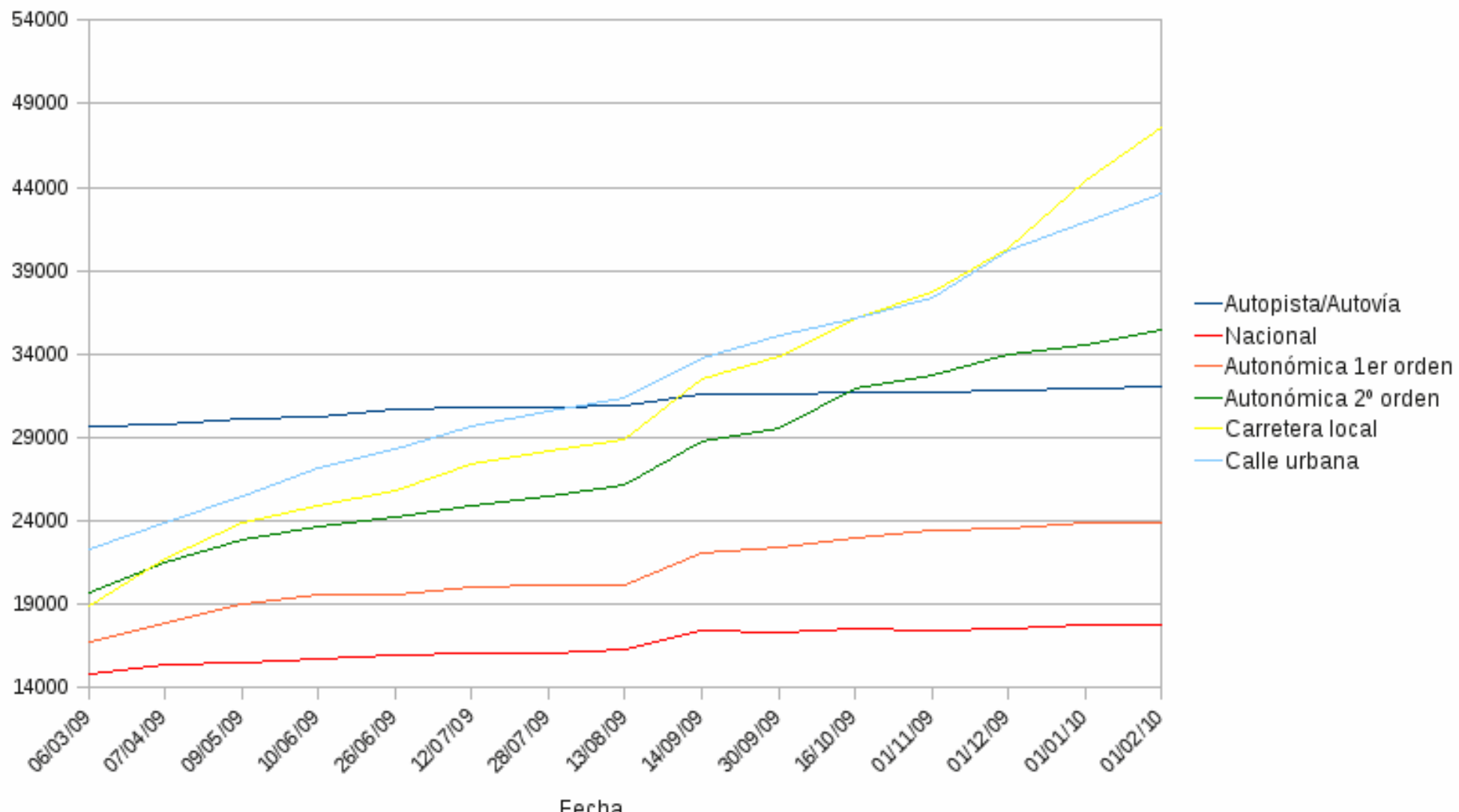
Valkenswaard

Venlo

Tegelen

Estadísticas mapa OpenStreetMap

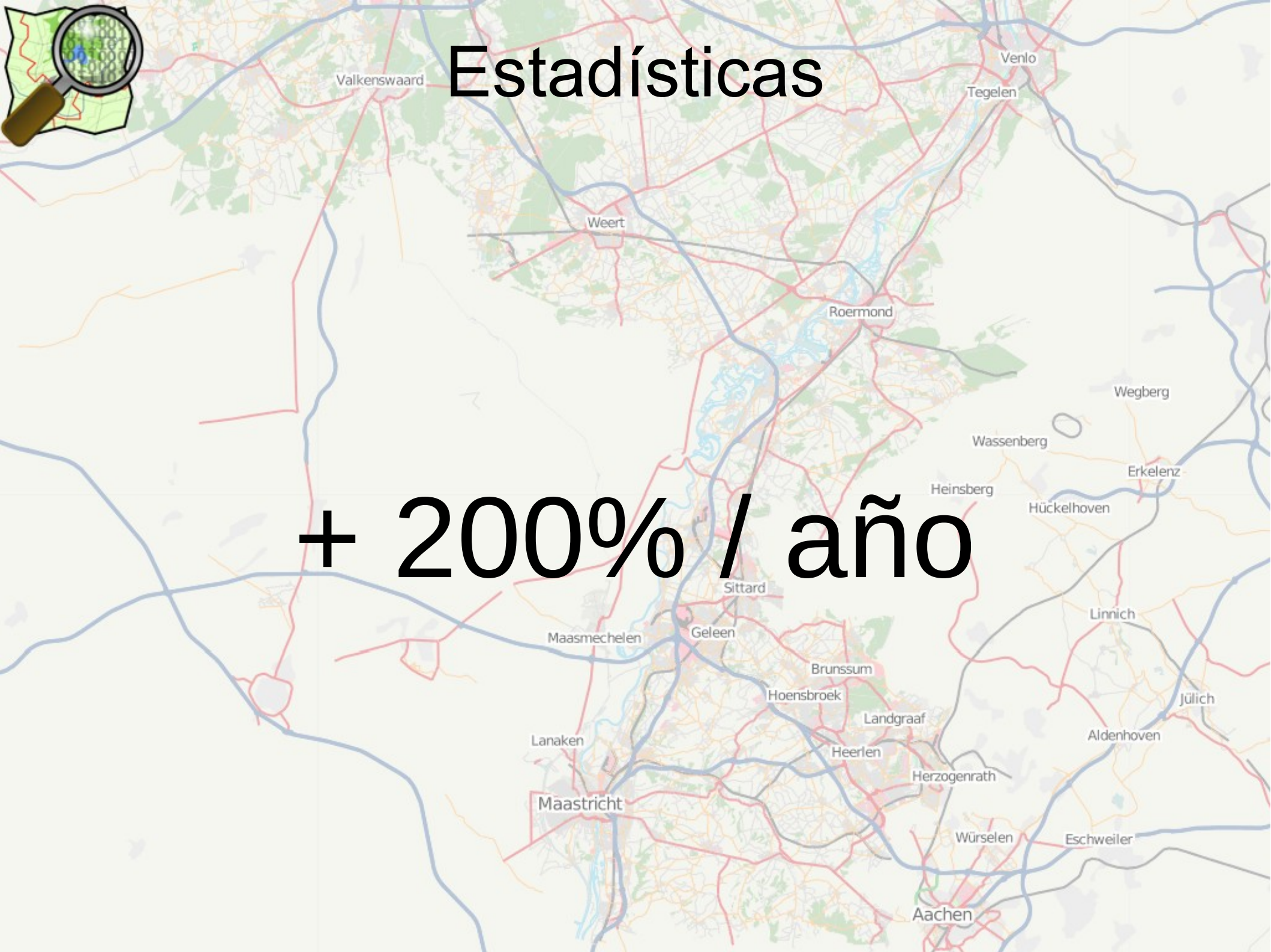
km por tipo de vía





Estadísticas

+ 200% / año





Levantamientos

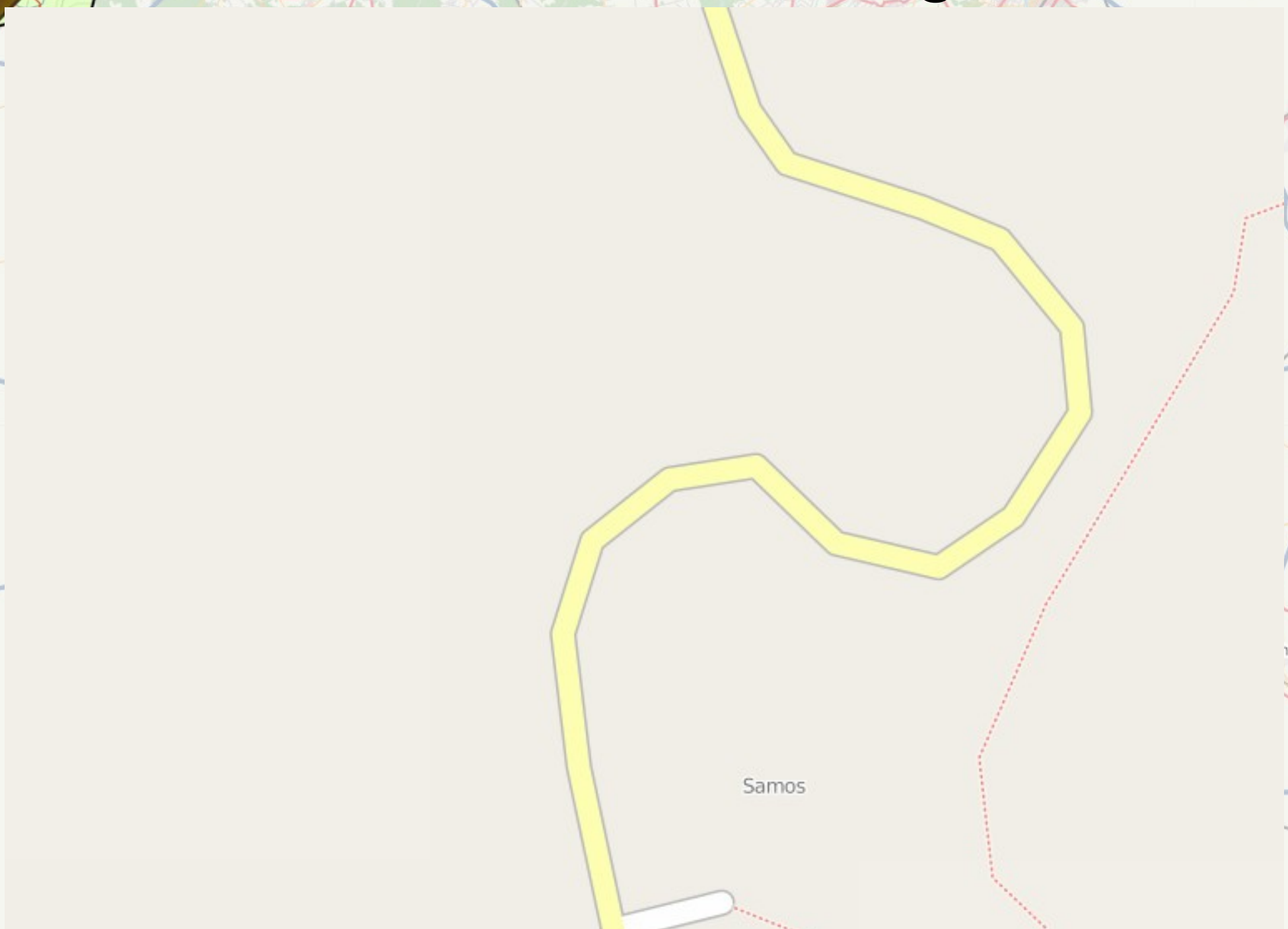


Camino de Santiago

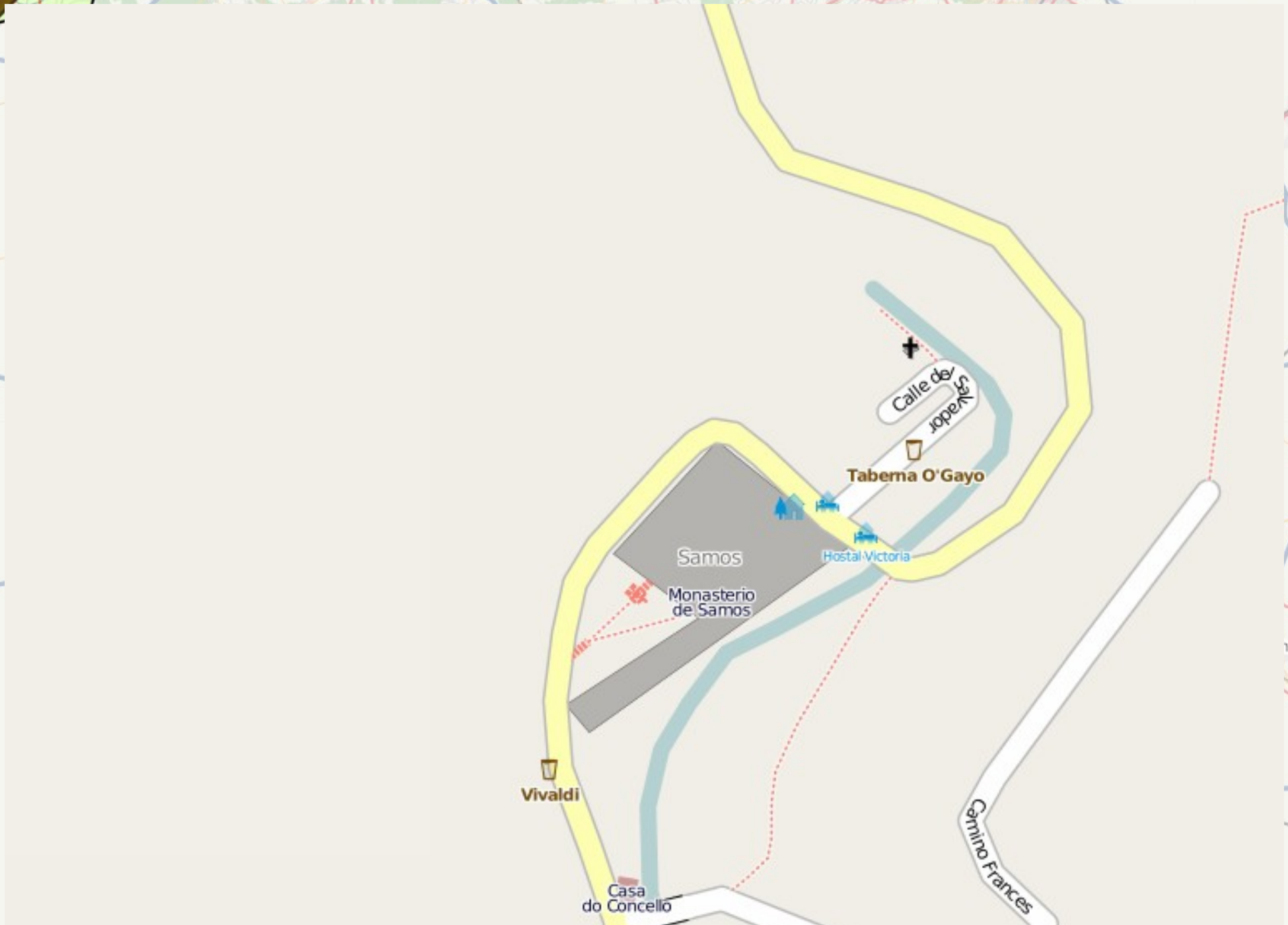




Camino de Santiago

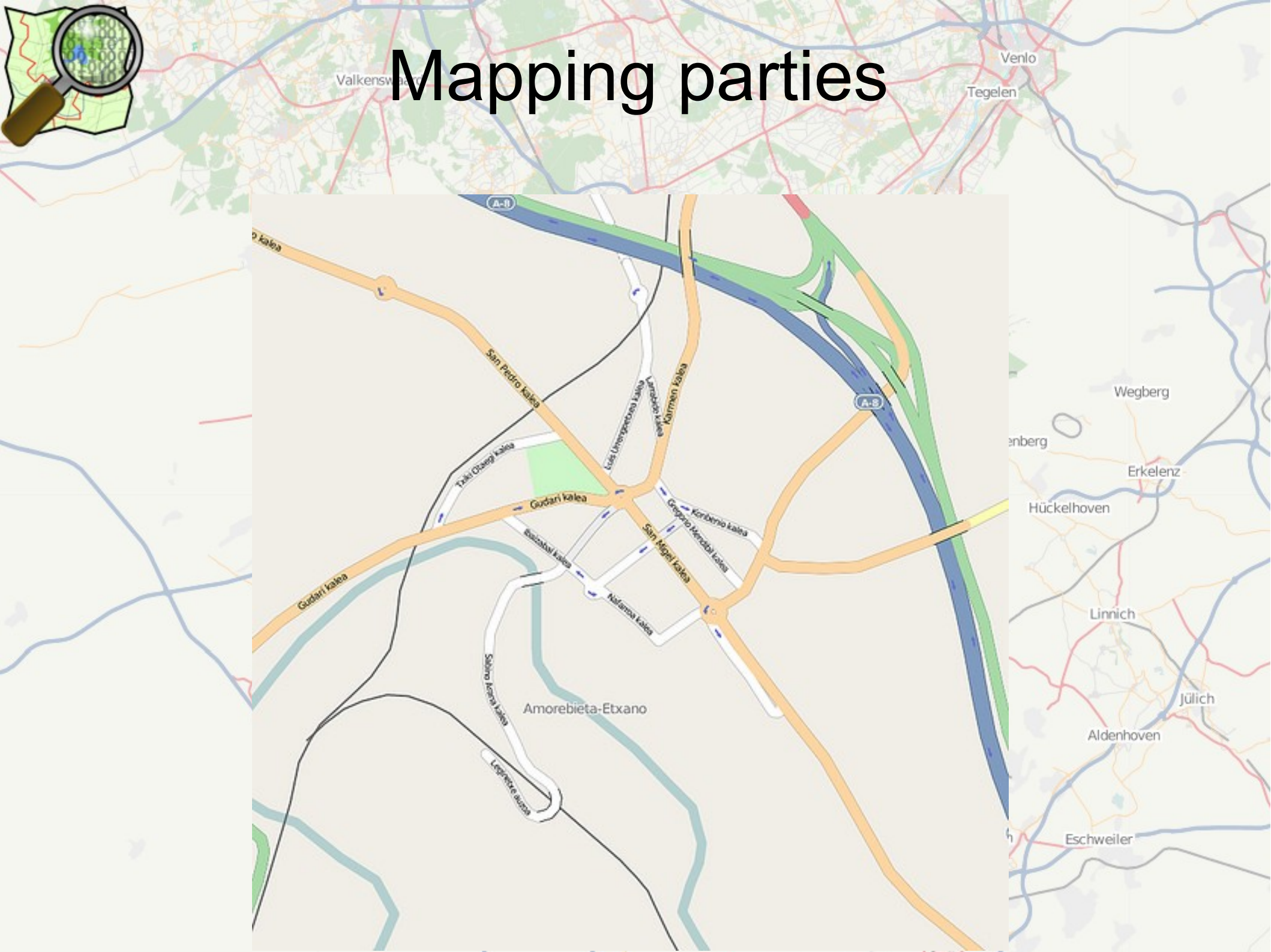
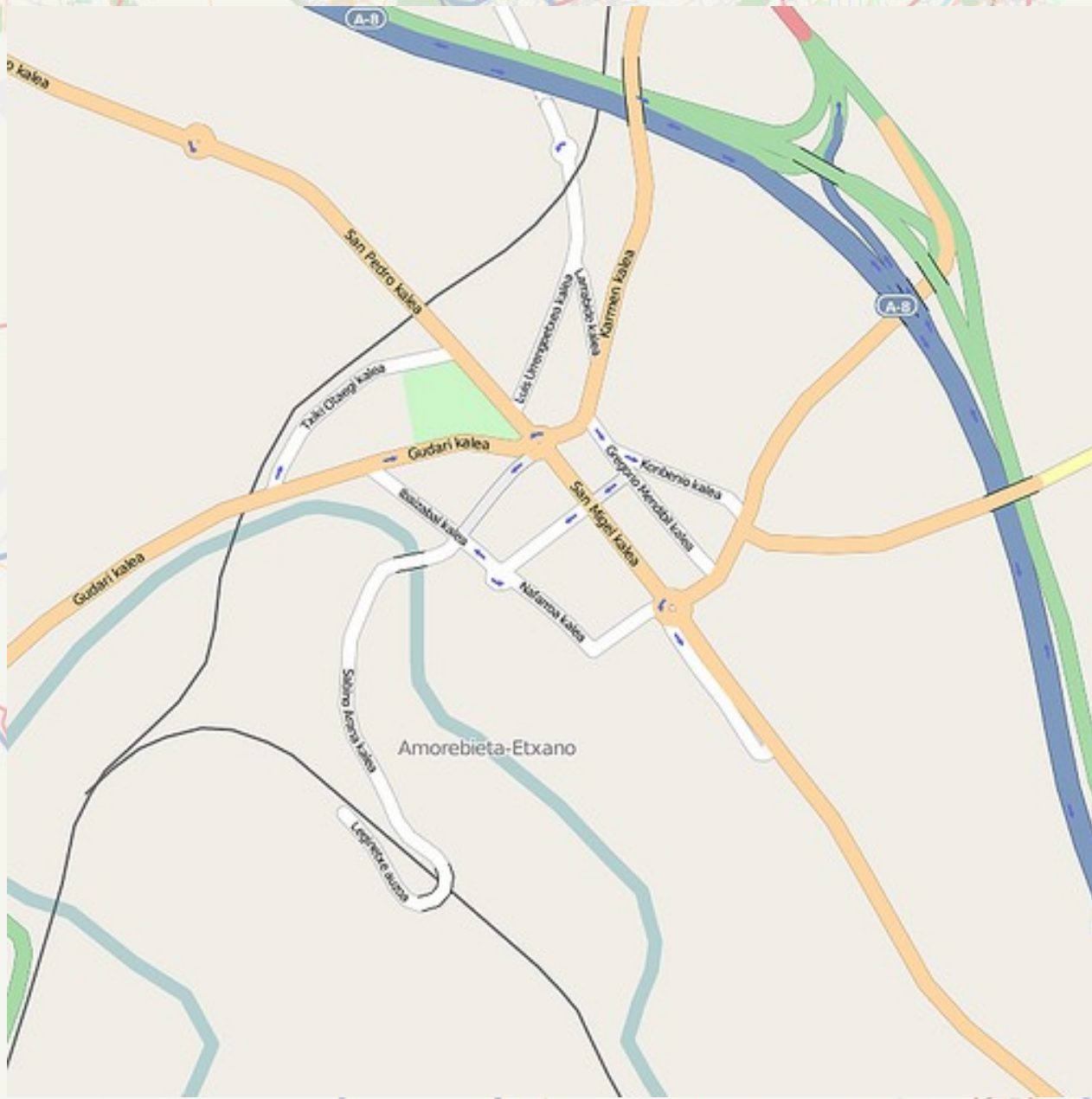


Camino de Santiago



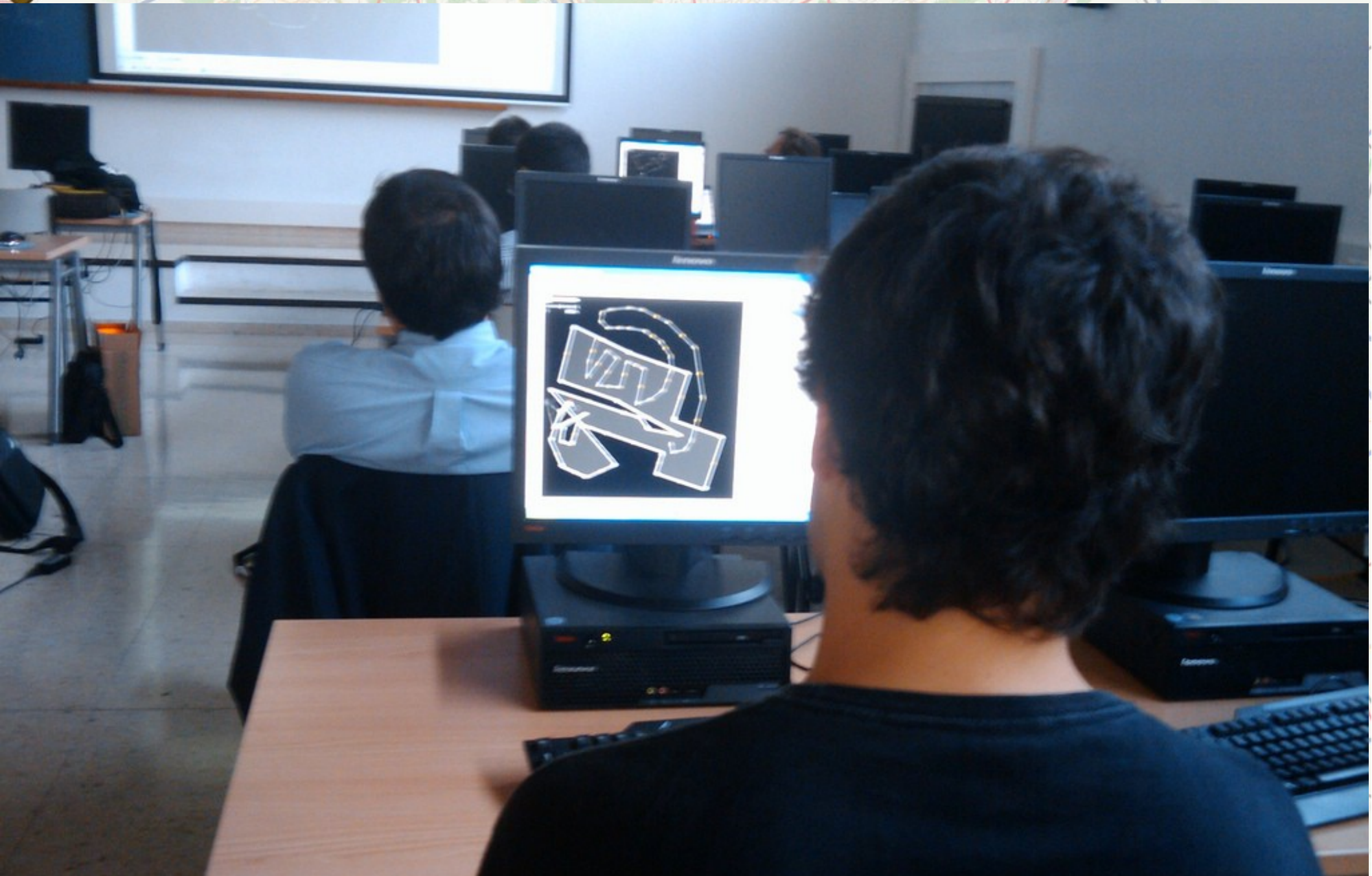


Mapping parties



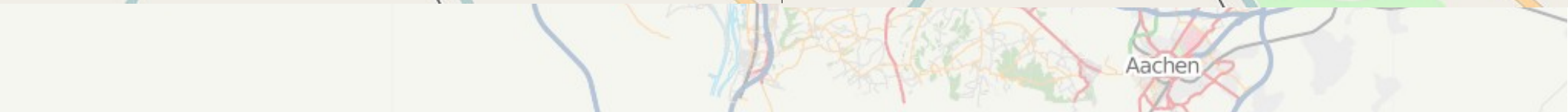
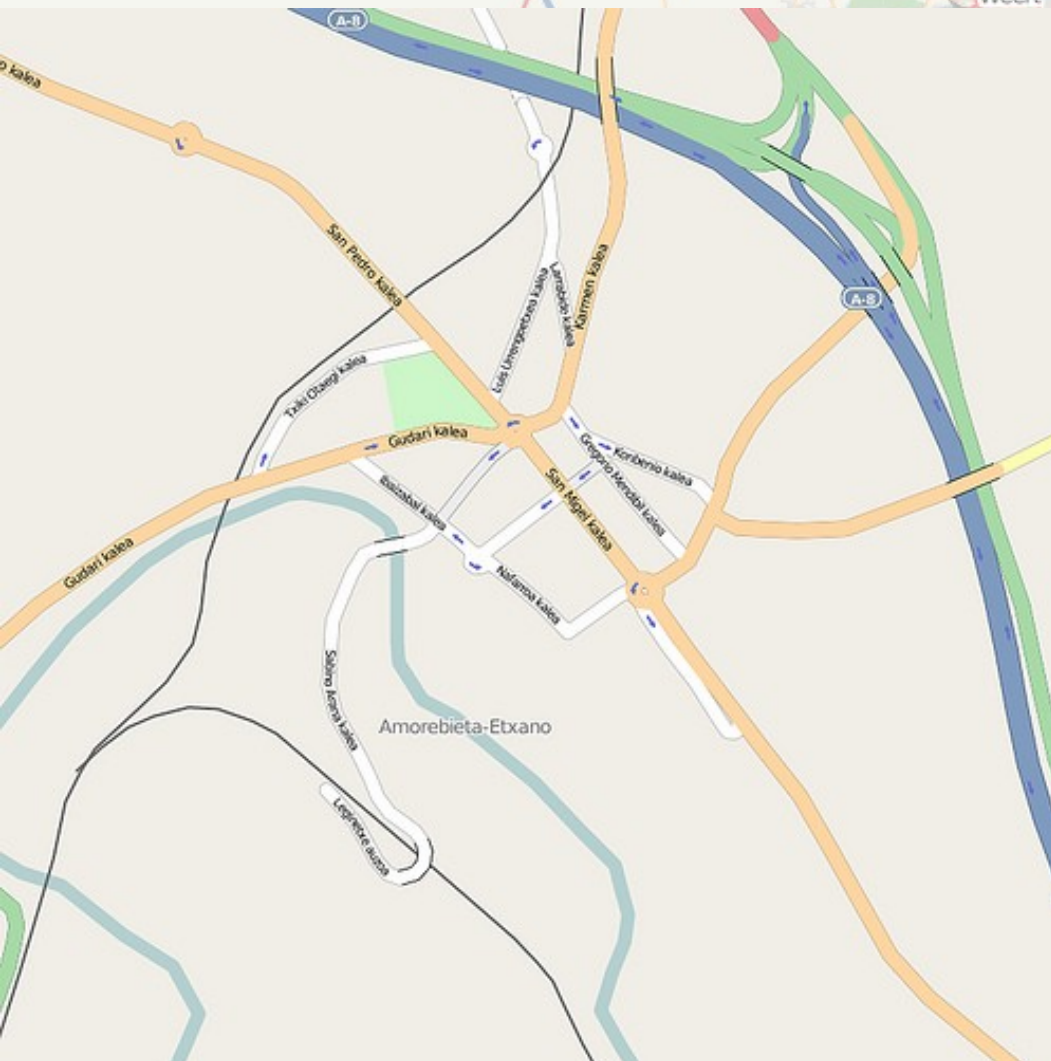


Mapping parties



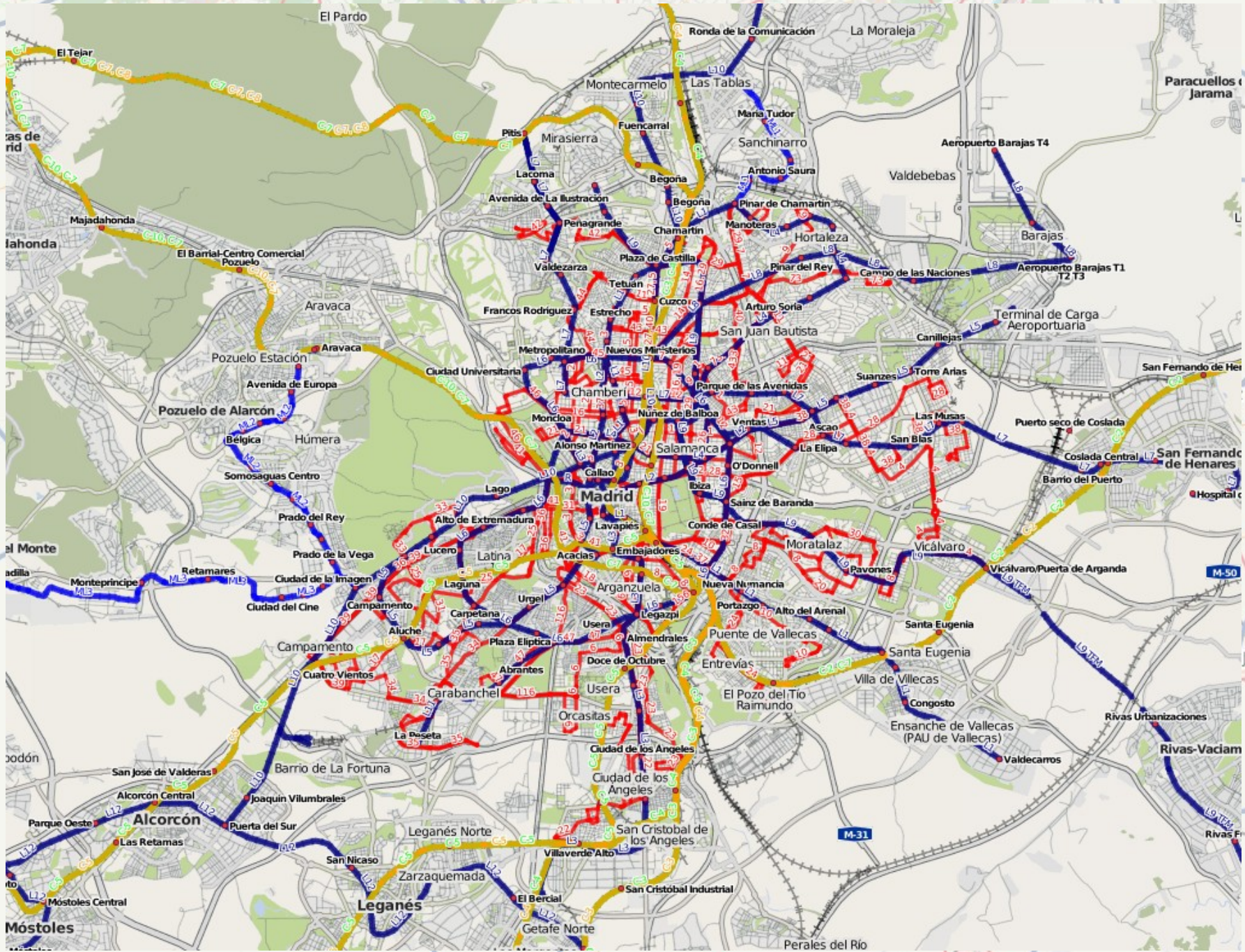


País Vasco

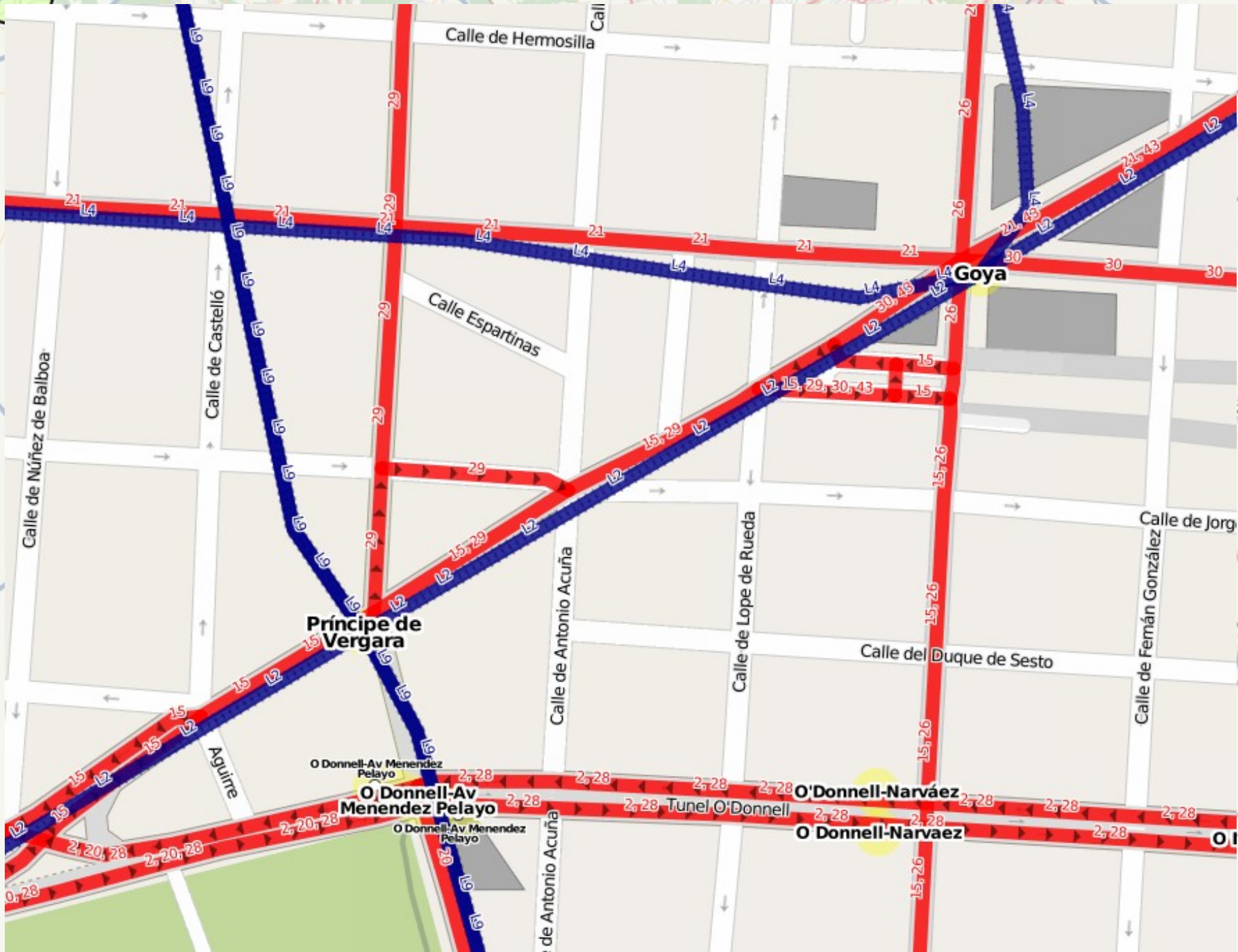




Transporte público



Transporte público





Valkenswaard

Venlo

Tegelen



MAPAPEL

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Wassenberg

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<http://bit.ly/doTHkO>

hace cerca de 1 horas via web



tagzania

TAGZANIA



OTROS MAPAS ONLINE
www.mapapel.com
 Topografía Servicio
www.topografia.servicios.com
 Mapas online openstreetmap.org



State of the Map 2010

Venlo
Egelen

Weert





State of the Map 2010

<http://www.stateofthemap.org>

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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



State of the Map 2010

<http://www.stateofthemap.org>

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Lanaken

Maastricht

Heerlen

Landgraaf

Herzogenrath

Würselen

Aachen

Aldenhoven

Eschweiler



Turks and Caicos Islands

Holguín

Santiago de Cuba

Port Antonio
ngston

Nord-Ouest

Nord

Gonaïves

Haiti

Comendador

Ouest

Sud

Sud-Est

Pedernales

Monte Cristi

Puerto Plata

Dajabón

Mao

Moca

Nagua

República Dominicana

Yamasá Hato Mayor

Santo Domingo

Higüey

Barahona

Bani





[OSM-talk] GeoEye Haiti imagery Ok'd

De: Mikel Maron <mikel_maron@yahoo.com>

Para: talk@openstreetmap.org

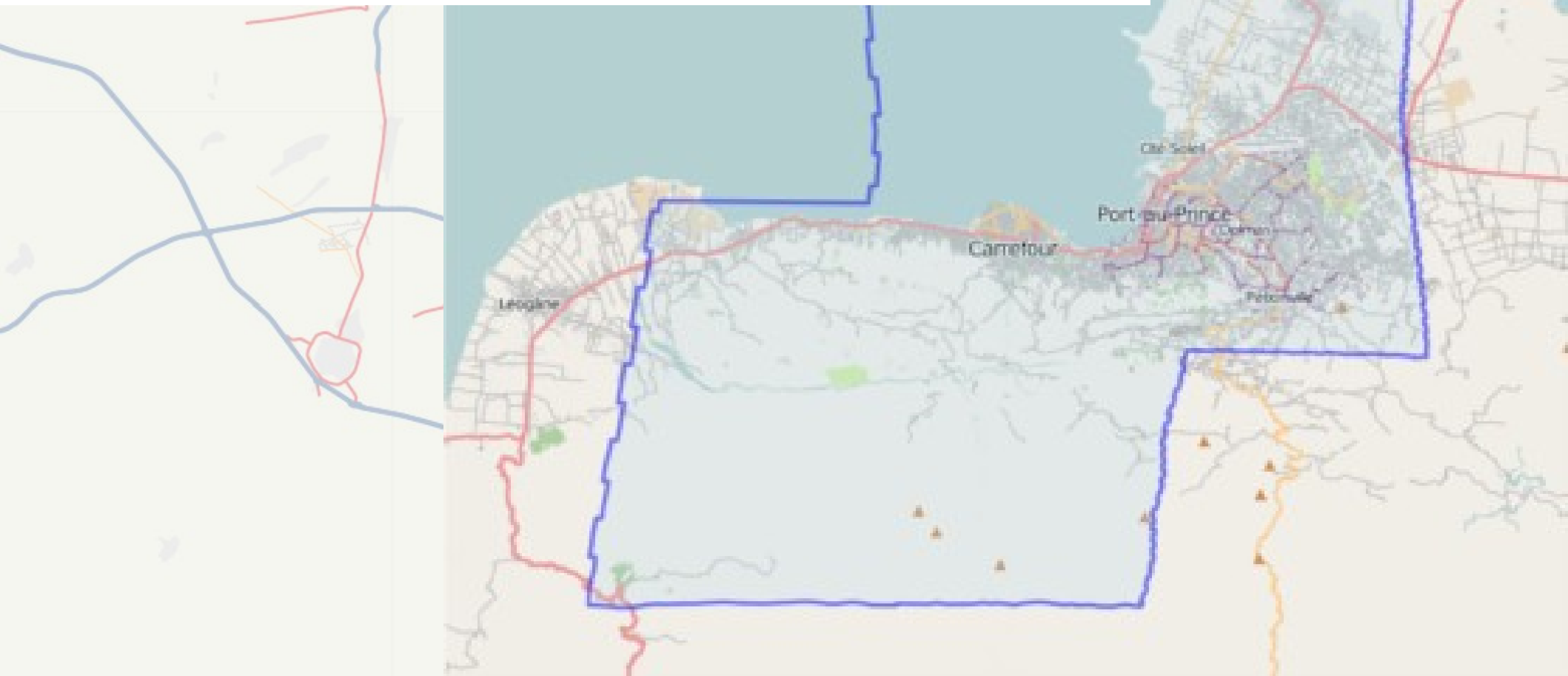
Fecha: 14-01-10 18:54

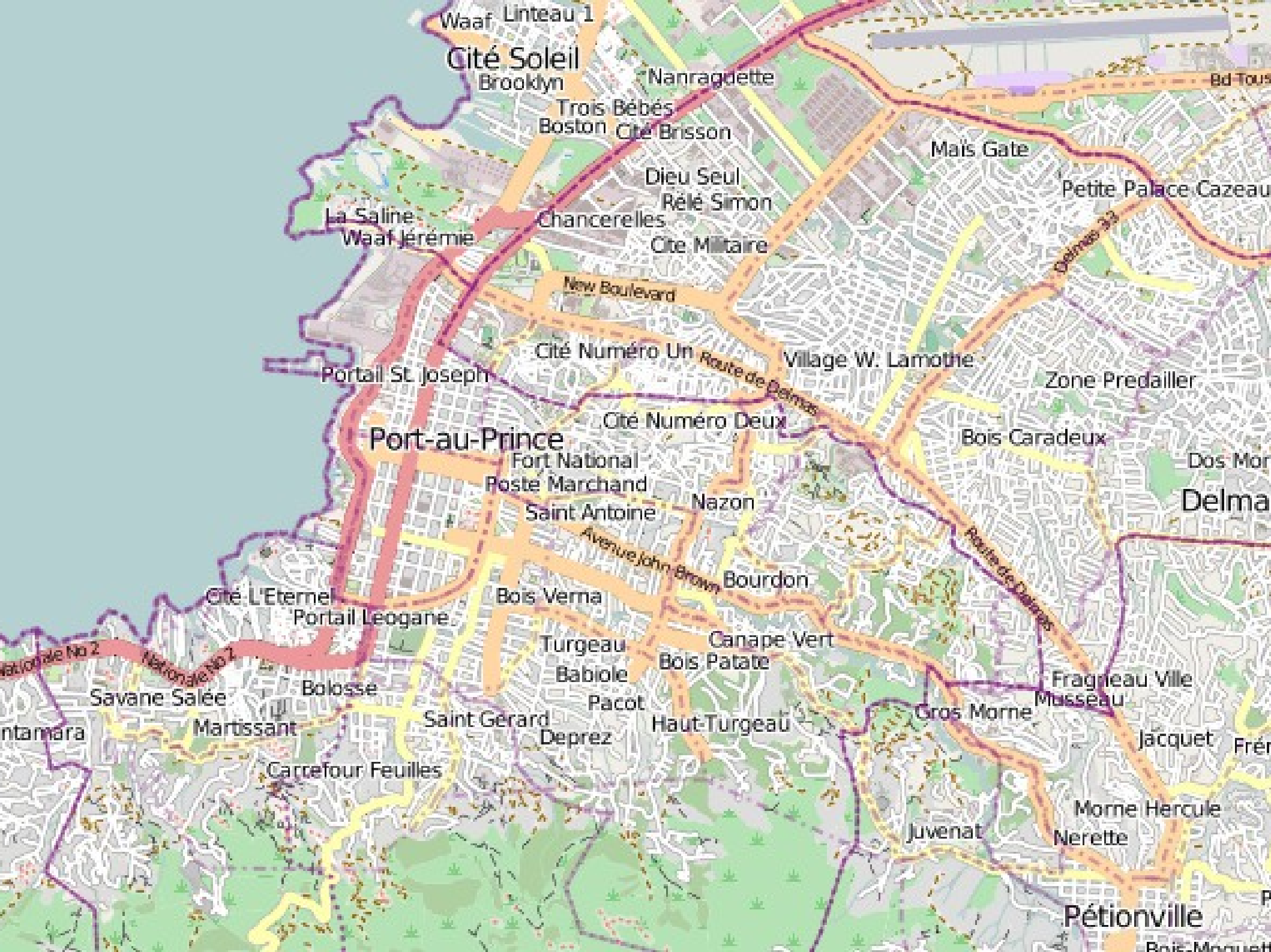
OSM has permission to use the imagery, as long as we give credit.

I suggest using the source tag for this.

Tiles are needed from the GeoTIFF.

Details at http://wiki.openstreetmap.org/wiki/WikiProject_Haiti#GeoEye





Waaf Linteau 1

Cité Soleil

Brooklyn

Nanragdette

Trois Bébés

Boston Cité Brisson

Mais Gate

Dieu Seul

Rélé Simon

Petite Palace Cazeau

La Saline

Waaf Jérémie

Chancerelles

Cité Militaire

New Boulevard

Portail St. Joseph

Cité Numéro Un

Village W. Lamothe

Zone Predailler

Port-au-Prince

Cité Numéro Deux

Bois Caradeux

Fort National

Poste Marchand

Dos Mor

Delma

Saint Antoine

Nazon

Cité L'Eternel

Portail Leogane

Bois Verna

Bourdon

Nationale No 2

Nationale No 2

Avenue John Brown

Route de Darmes

Bolosse

Bois Verna

Canape Vert

Fragneau Ville

Savane Salée

Martissant

Saint Gerard

Deprez

Haut-Turgeau

Gros Morne

Masséau

Antimara

Martissant

Carrefour Feuilles

Saint Gerard

Deprez

Haut-Turgeau

Gros Morne

Masséau

Jacquet

Frér

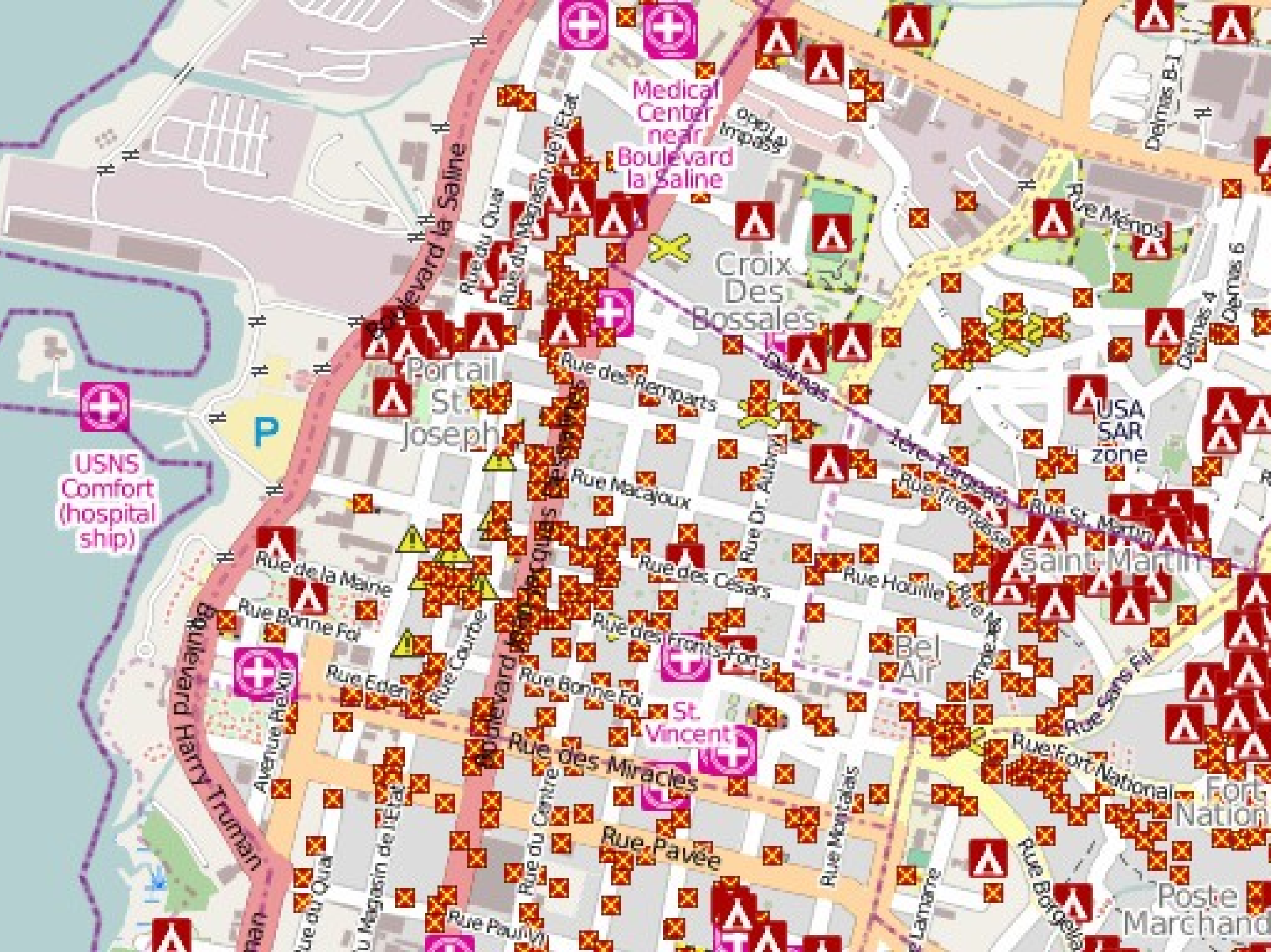
Juvenat

Morne Hercule

Nerette

Pétionville

Bois Morue



USNS Comfort (hospital ship)

Medical Center near Boulevard la Saline

Croix Des Bossales

Portail St. Joseph

USA SAR zone

Saint-Martin

Bel Air

St. Vincent

Fort National

Poste Marchand

Boulevard la Saline

Boulevard Harry Truman

Rue du Quai

Rue des Remparts

Rue Macajoux

Rue de la Mairie

Rue Bonne Foi

Avenue Belknap

Rue de la Paix

Rue Courbe

Rue des Fronts-Forts

Rue Bonne Foi

Rue des Miracles

Rue du Centre

Rue Paul

Rue des Césars

Rue Dr. Aubry

Rue Houllier

Rue de la Paix

Rue Montalais

Rue Lamorne

Rue Bonne Foi

Rue Saint-Fil

Rue de la Paix

Rue de la Paix

Rue de la Paix

Rue de la Paix

Rue de la Paix

Dermas B-1

Dermas 4

Dermas 6

Dermas 4

Dermas 6

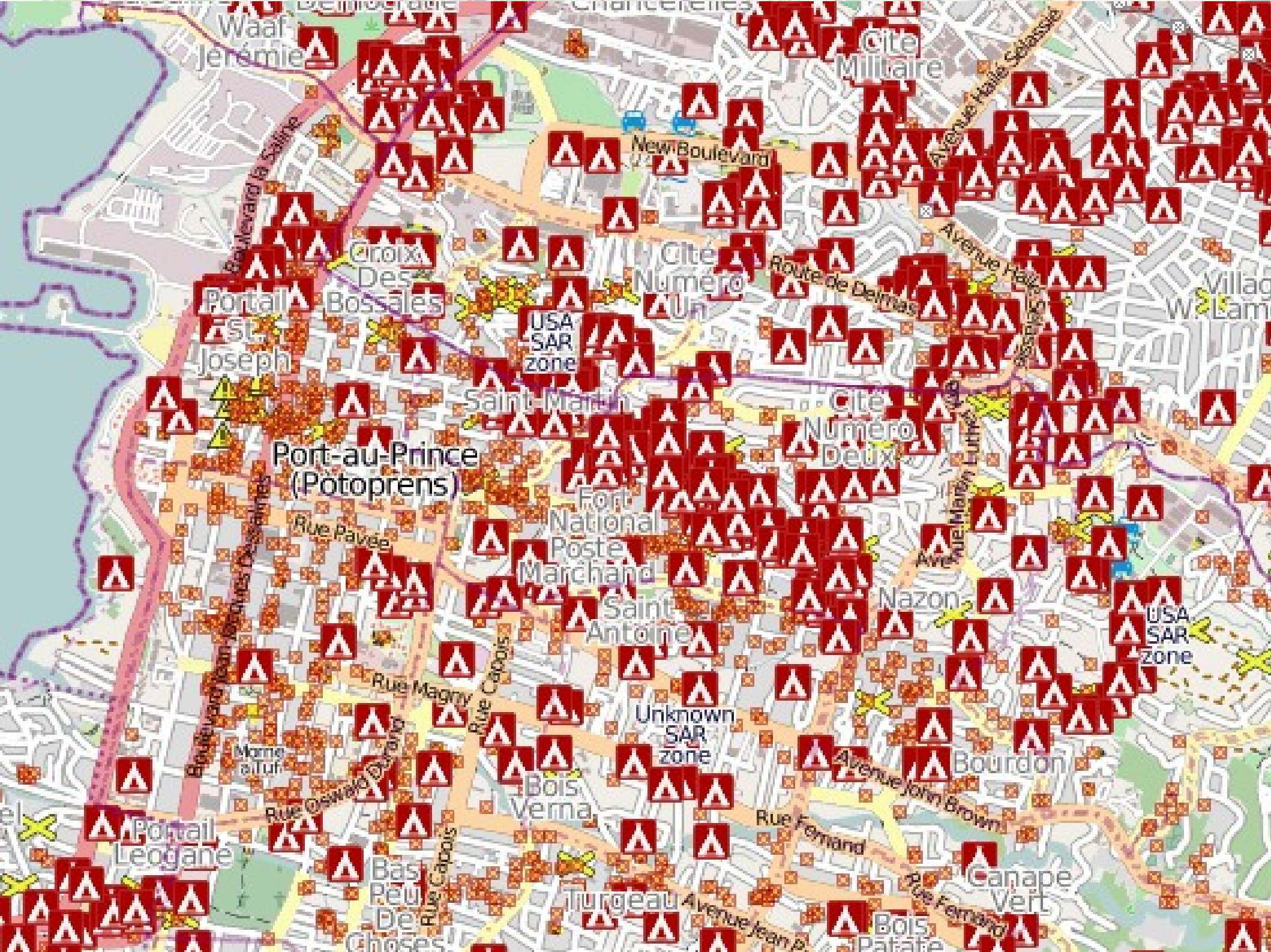
Dermas 4

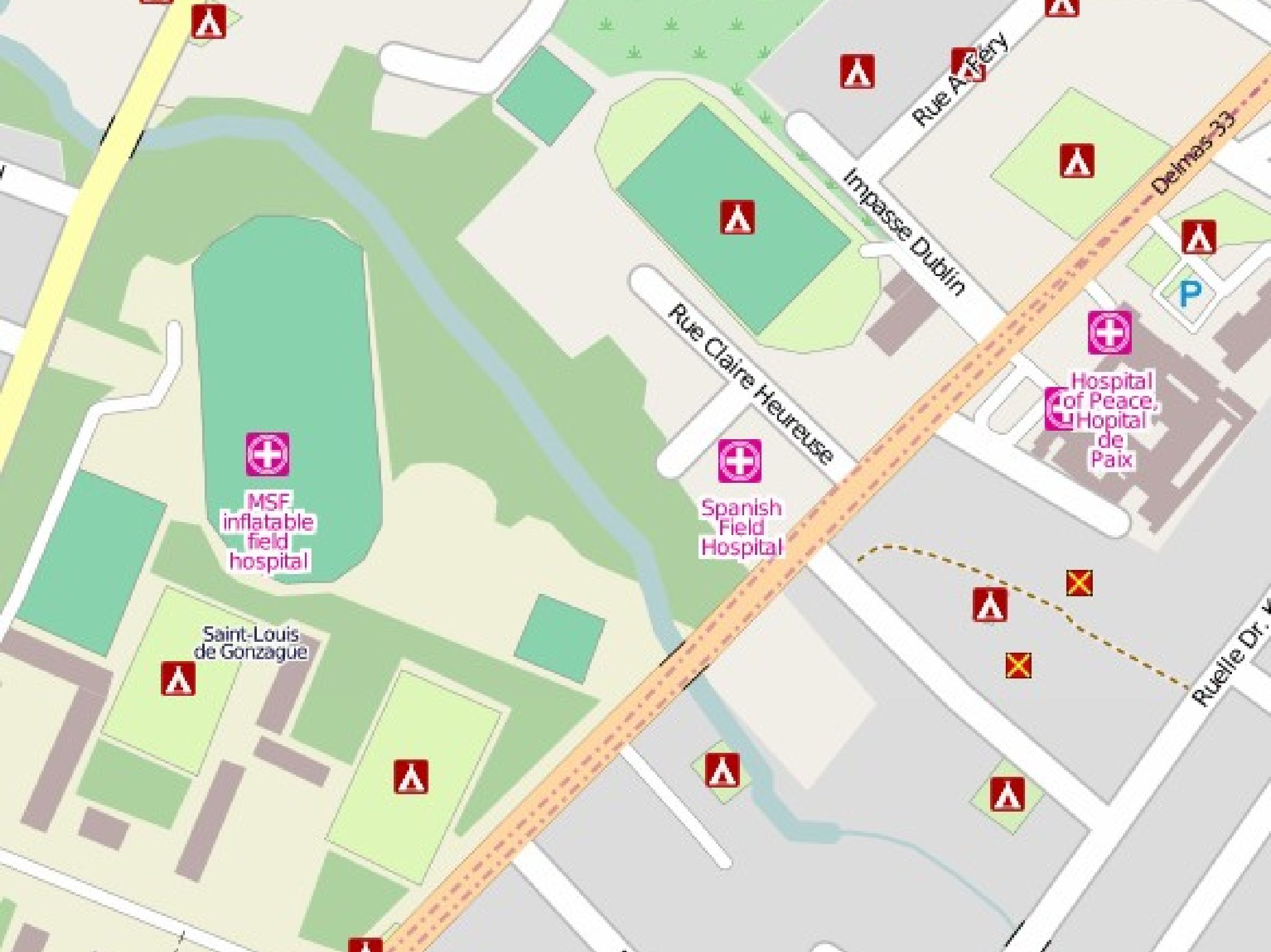
Dermas 6

Dermas 4

Dermas 6

Dermas 4





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 GMT on 12/01/2010 an earthquake of magnitude 7.0 has struck an very highly populated area in the Capital Province (population 3.0 million) in Haiti. 300,000 people are thought to have lost all or part of international communication (connection to its high speed early reports speak about more than 100,000 casualties).

CLIDE No. Eq-2010-00009-HTI

Map Information
This map presents the area of the Haiti Earthquake (12 January 2010). Aerial view (DigitalGlobe) Satellite image of 11 January 2010 is overlaid by road data and the Critical Infrastructures (CIS) data. The map is available at www.gdacs.org.
Spatial Reference: UTM, WGS 1984
Map Scale: 1:100,000
Data Reference: GIS of January 2010
Background Data: Satellite 7 (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
Contact GDACS: gdacs@un.org (gdacs@un.org)

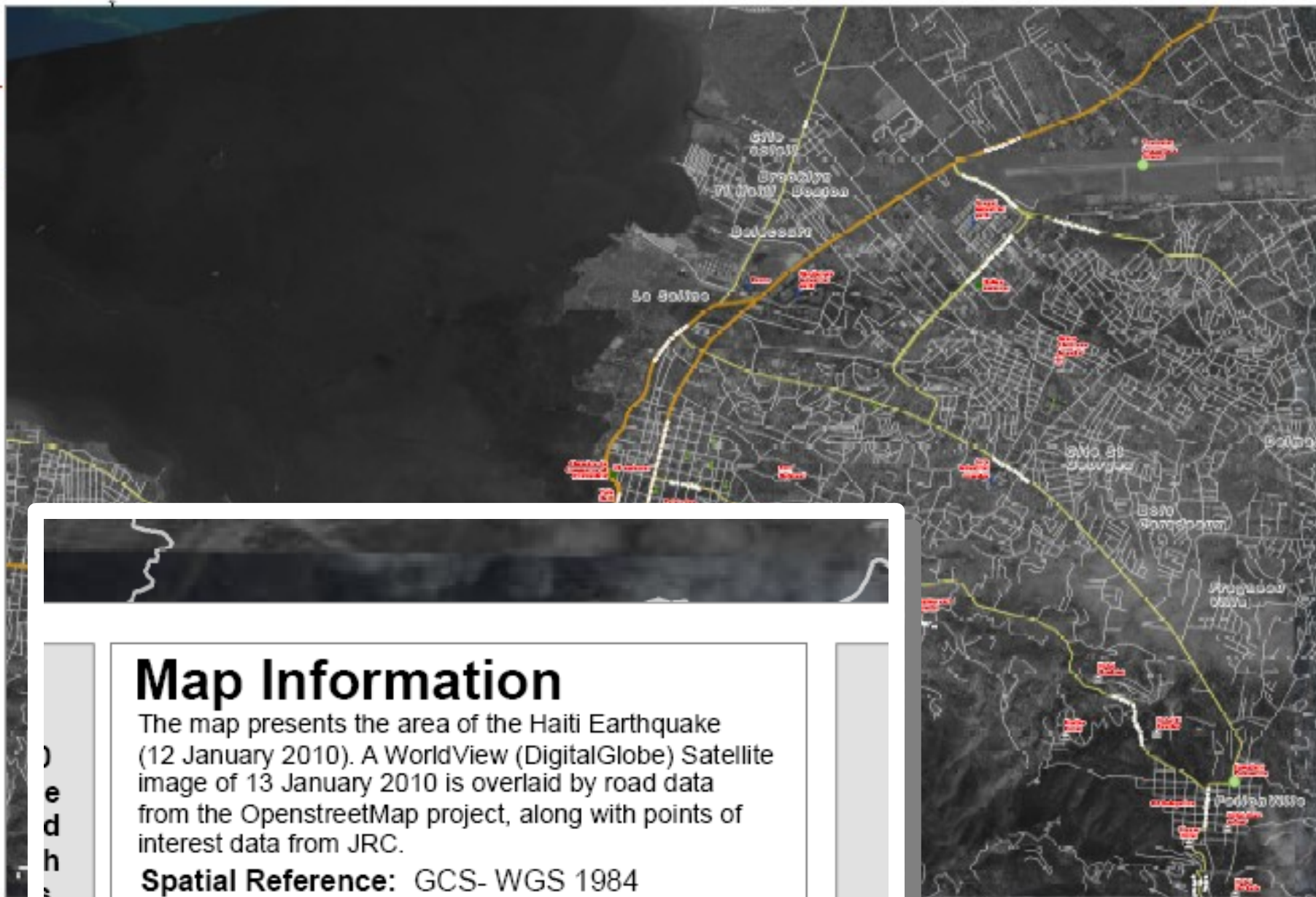


Legend

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



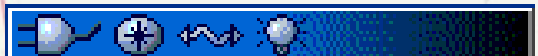
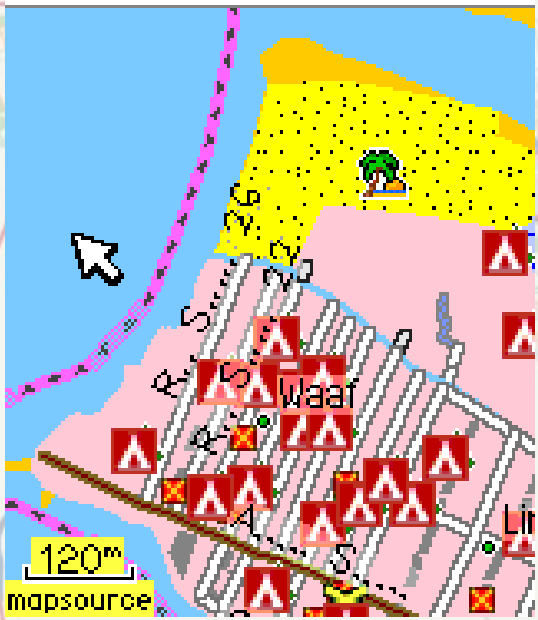
The Global Disaster Alert and Coordination System provides near real-time alerts about natural disasters around the world and links to disaster response coordination, including media monitoring, map catalogues and Visual On-Site Operations Coordination Centre.

www.gdas.org
Contact: gdacs@un.org / gdacs@ec.europa.eu

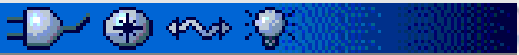
Map created by UNDP Team - Disaster - 15/01/2010. All rights reserved.



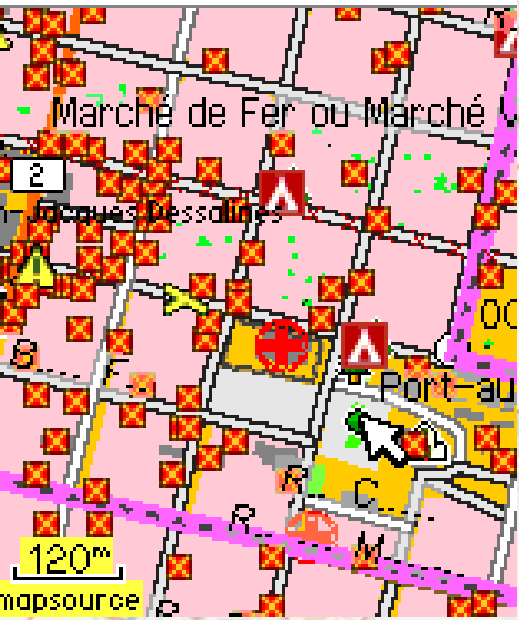
Ocean/Sea
 N 18°34.970' W 8152.9m
 W 072°20.487'



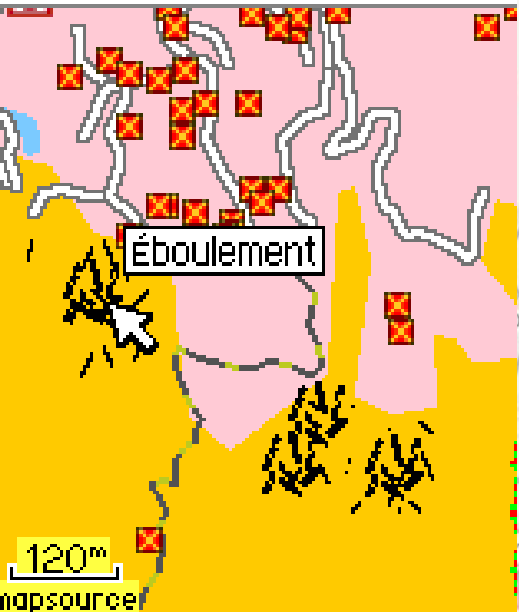
Médecins Sans Frontières
 N 18°34.885' W 8151.5m
 W 072°19.637'



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



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



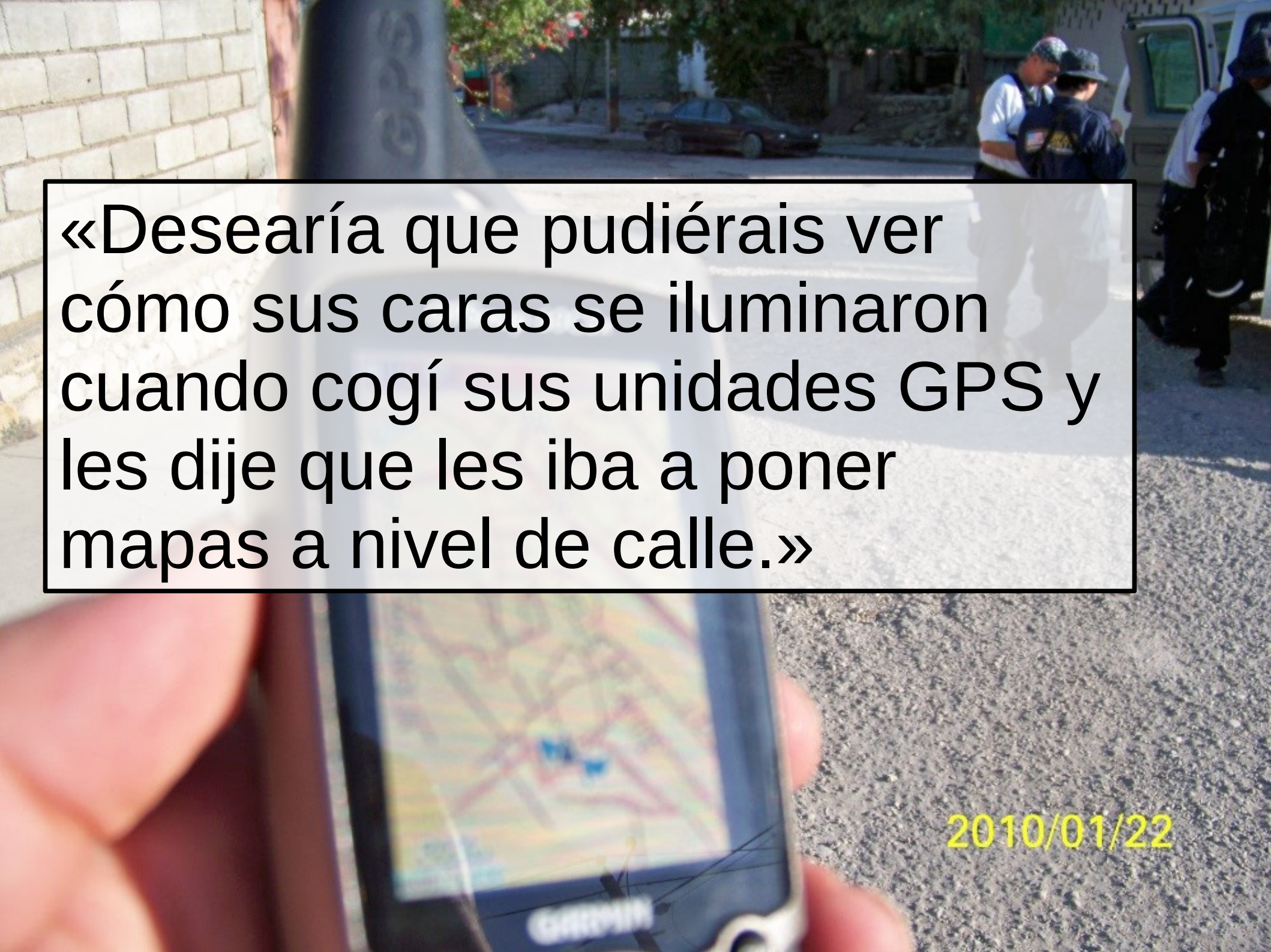


GPSmap 60CSx



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



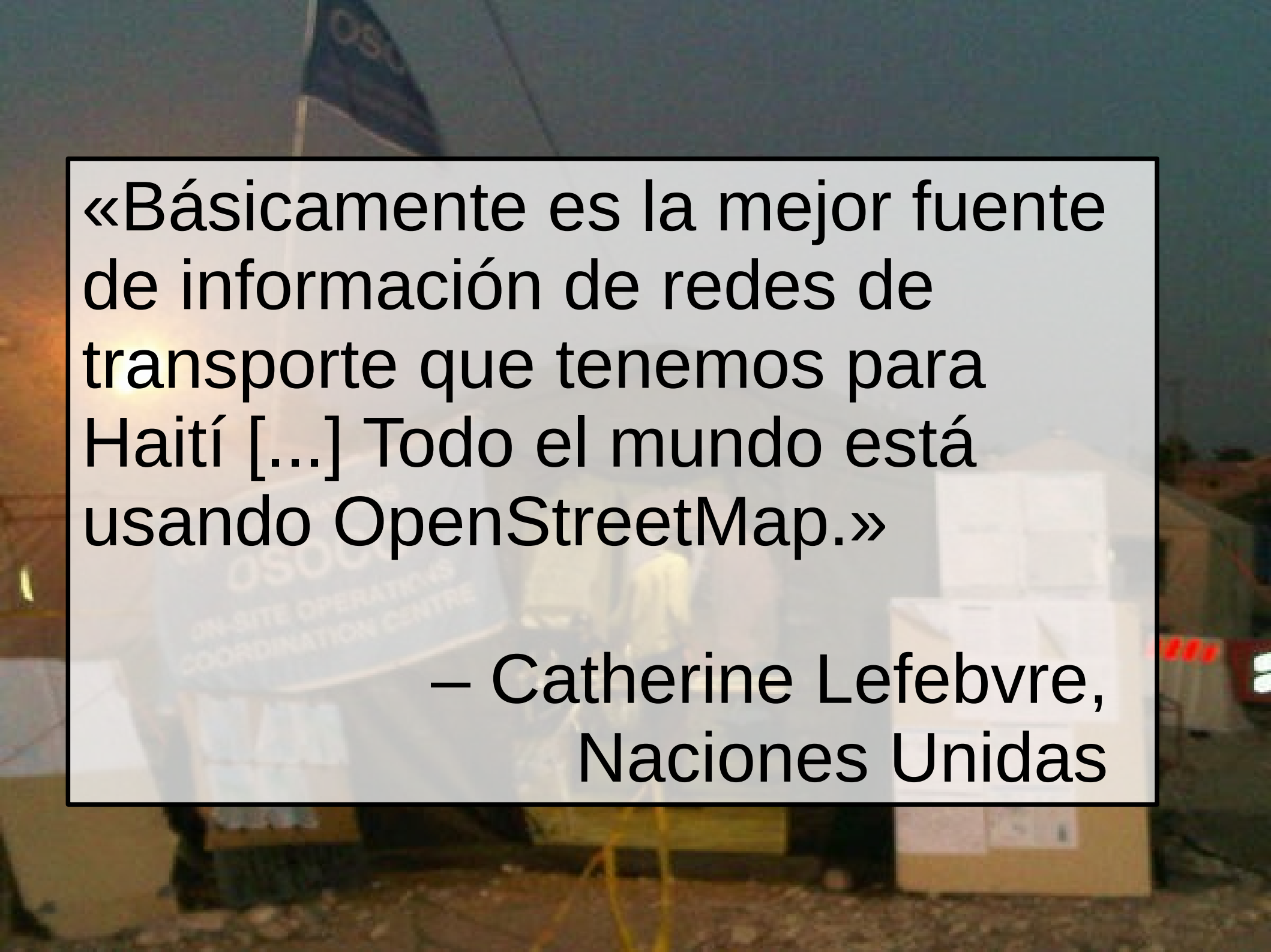




UNITED NATIONS
OSOCC
ON-SITE OPERATIONS
COORDINATION CENTRE

OSOCC

Multiple documents and maps are attached to a large cardboard box on the right side of the tent.

The background image shows an outdoor site at night or dusk. A blue flag with a white logo is visible in the upper left. In the center, there is a white sign that reads "OSOCC" in large letters and "ON-SITE OPERATIONS COORDINATION CENTRE" in smaller letters below it. The scene is dimly lit, with some lights visible in the background.

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

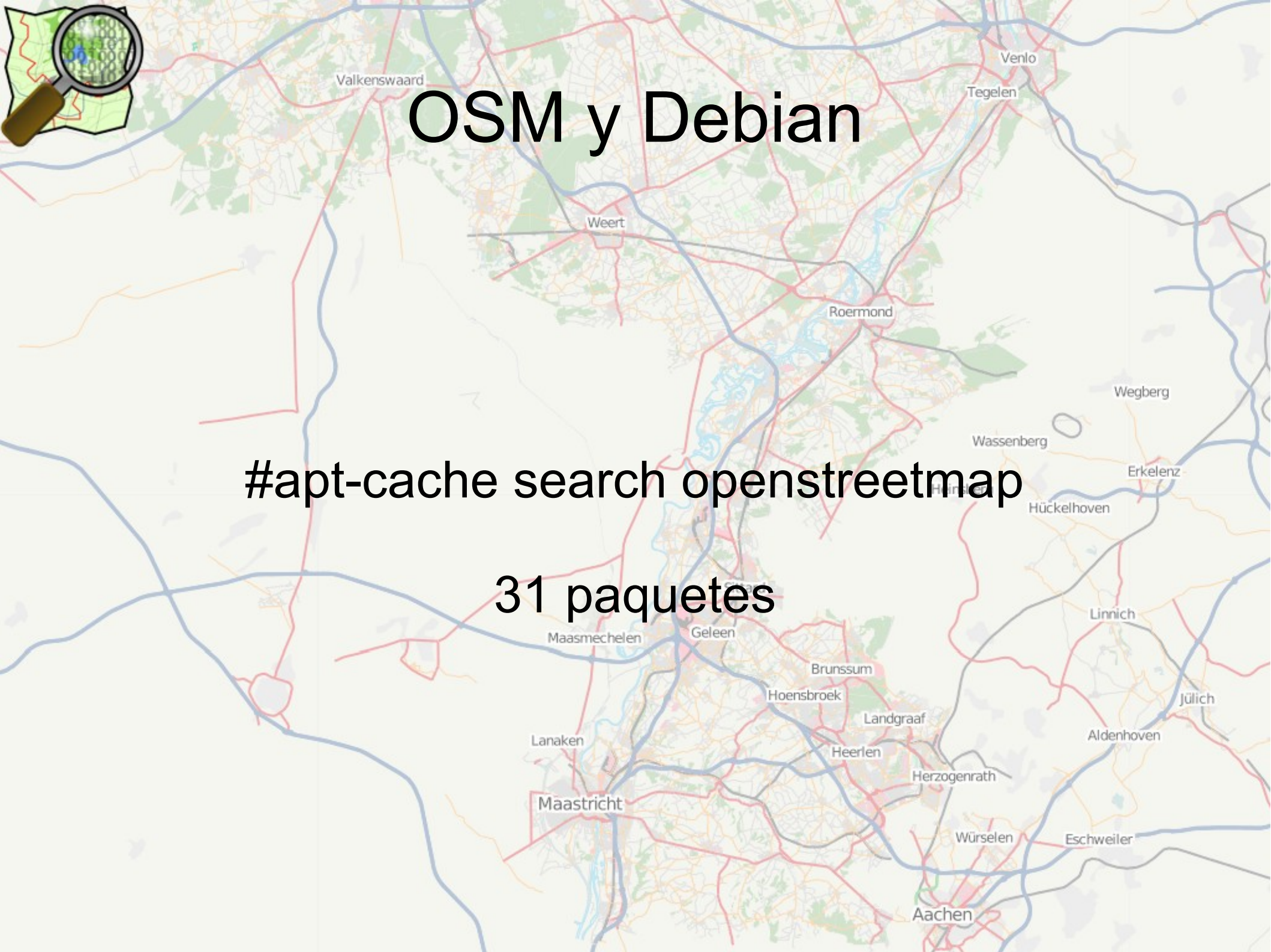
– Catherine Lefebvre,
Naciones Unidas



OSM y Debian

#apt-cache search openstreetmap

31 paquetes





OSM y debian

Meritocracia

Legal-talk

Guardianes de la pureza

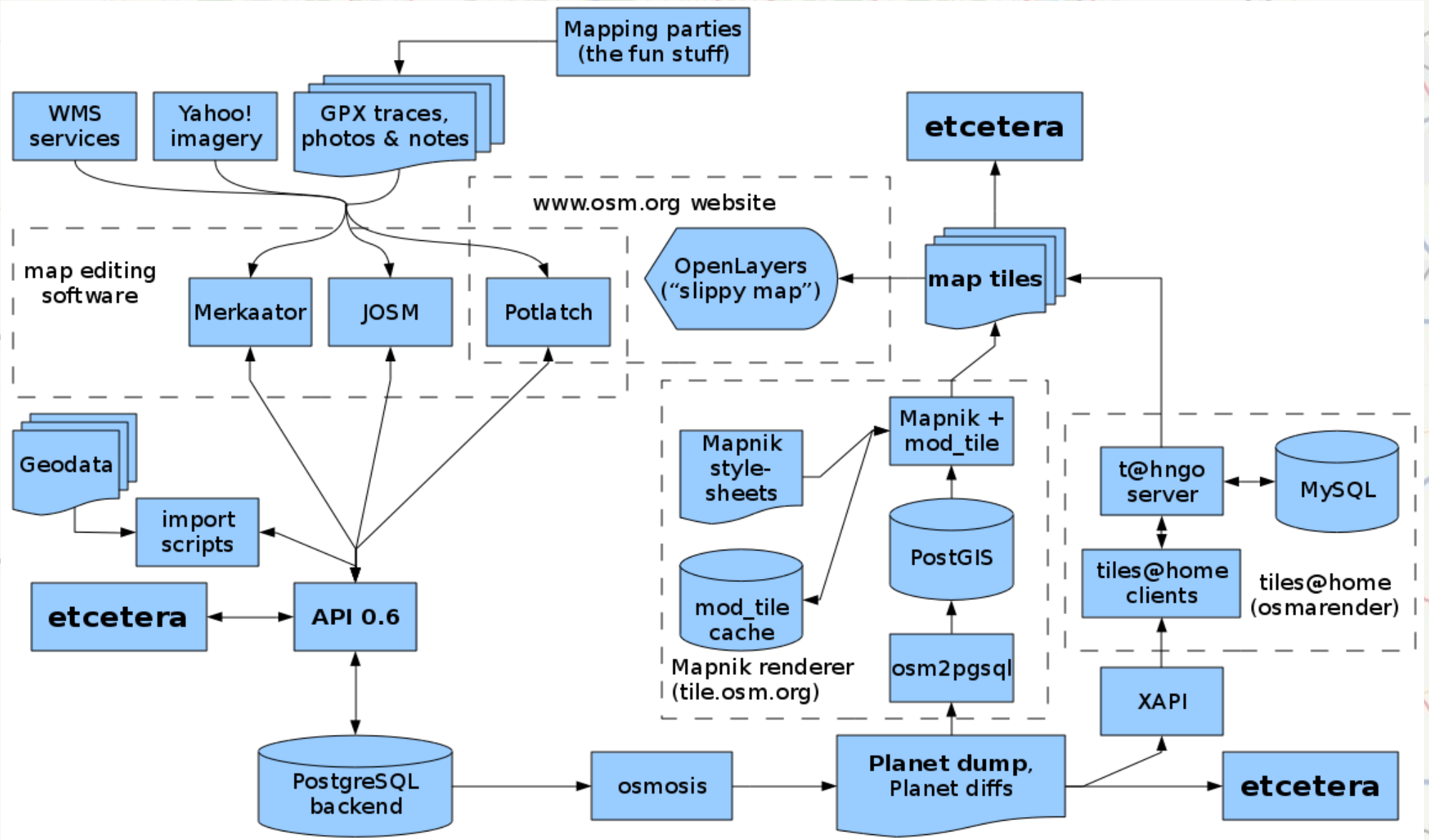




Valkenswaard

Venlo
Tegelen

Software libre



Aachen



Sitios de interés

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

Agradecimientos
Iván Sánchez, Frederick Ramm,