OpenStreetMap.org

OpenStreetMap - Global Collaborative Mapping

tim@geothings.net @tim_waters

=

+

A bit like Wikipedia for maps

TOURIST FAVOURITES
SIGHT SEEING
FOOD
COFFEE
SHOP
GOING OUT
PUBLIC VIEW
TOURIST INFO
HOSTEL
CAMPING
METRO
METRO M2 TO THE AIRPORT
COPENHAGEN
FOR YOUNG TRAVELLERS
FREE MAP
ACT LIKE A LOCAL!
THE ROYAL CASTLE, LITTLE MERMAID, TIVOLI, WHATEVER, IF YOU REALLY WANT TO SUCK UP COPENHAGEN, STOP TAKING PICTURES AND START ACTING LIKE A LOCAL!
offline
NE
~ 1.6 mph
Richelieu Drouot
Grands Boulevards
Opéra
Bonne Nouvelle
Quatre-Septembre
Strasbourg
Bourse
Sentier
Rue du Mail
Rue Saint-Roch
Pyramides
Le Louvre
Rue du Louvre
Arts
Les Halles
Châtelet-les-Halles
Rambuteau
Voie Georges Pompidou
Louvre - Rivoli
Rue de Lille
Pont Neuf
Châtelet
PARIS
La Seine
Rue Jacob
Rue Mazarine
Rue de Seine
Rue des Saints-Pères
Cité
Saint-Michel
Mabillon
0.6 mi
© 2009 CloudMade - Map data CCBYSA 2009 OpenStreetMap.org contributors

HOW ARE YOU DELIVERING ON CHANGE?

Whether you were already serving your country, or are responding to the President's call, share how you are delivering on change in your community.

Whether it is an hour per month helping those struggling in the current economy, tutoring kids in your neighborhood every day, or anything else, we want to highlight what Americans are doing to strengthen our country.

LOOKING FOR A WAY TO SERVE THAT'S RIGHT FOR YOU?

Serve.gov is a new portal for you and all Americans to find your own ways to serve in your own communities. Just choose whatever interests you – and type in your zip code to see what opportunities our partner organizations have in your area. Americans are putting their own country back on the right track, be a part of it.

VISIT SERVE.GOV

flickr

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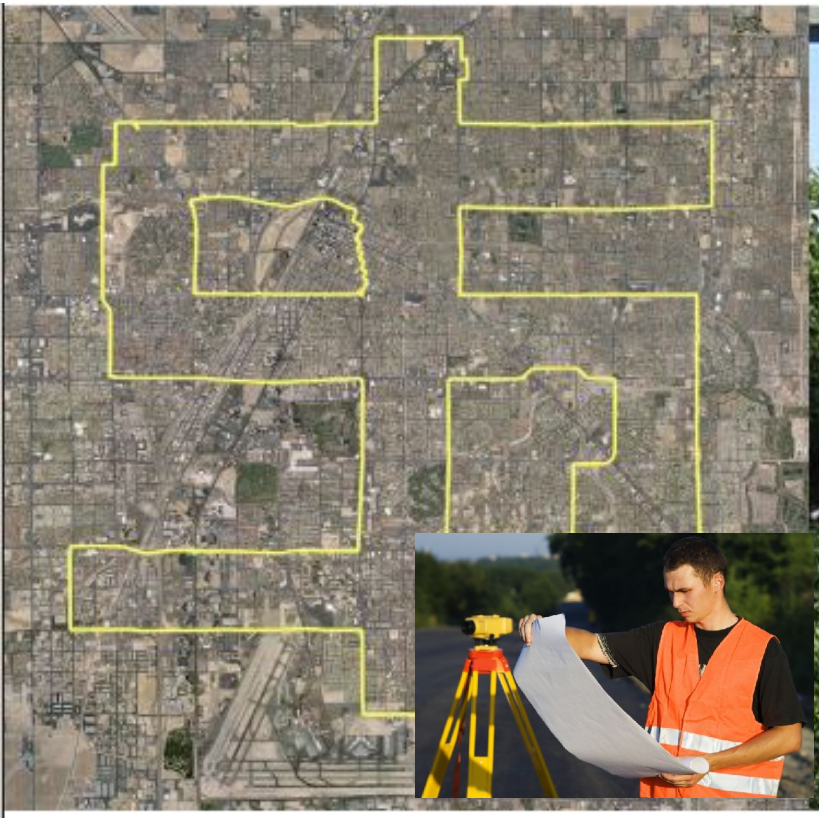
a YAHOO! company

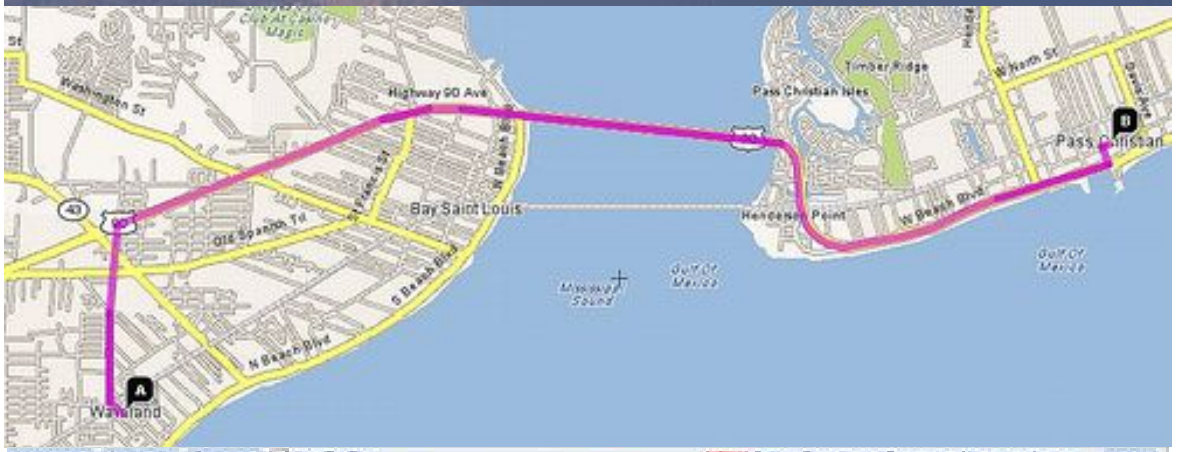
Why OpenStreetMap?

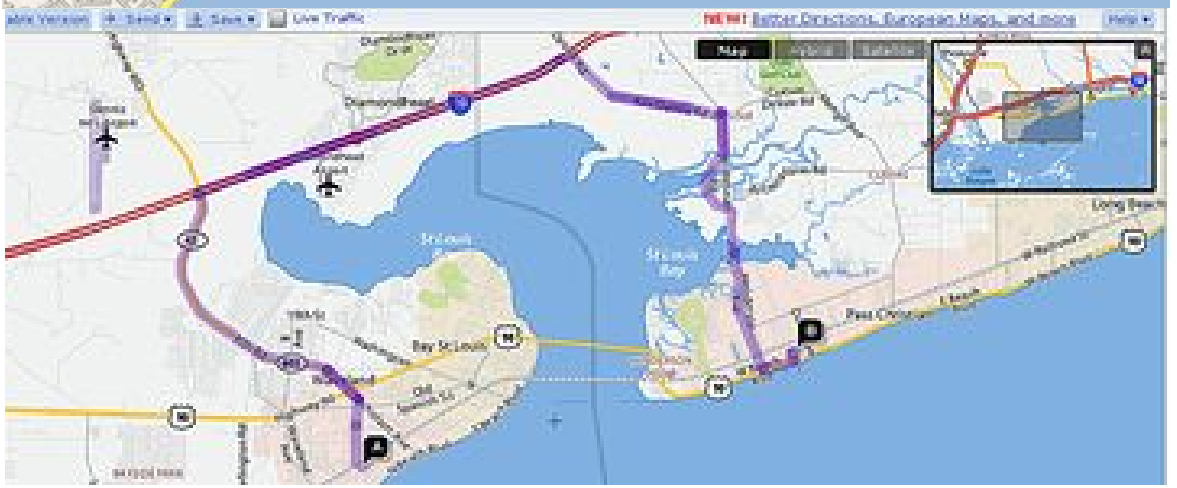
Why not use existing maps?

Expensive
Wrong
Coverage Economically Determined (locations & use)



Change happens – Katrina





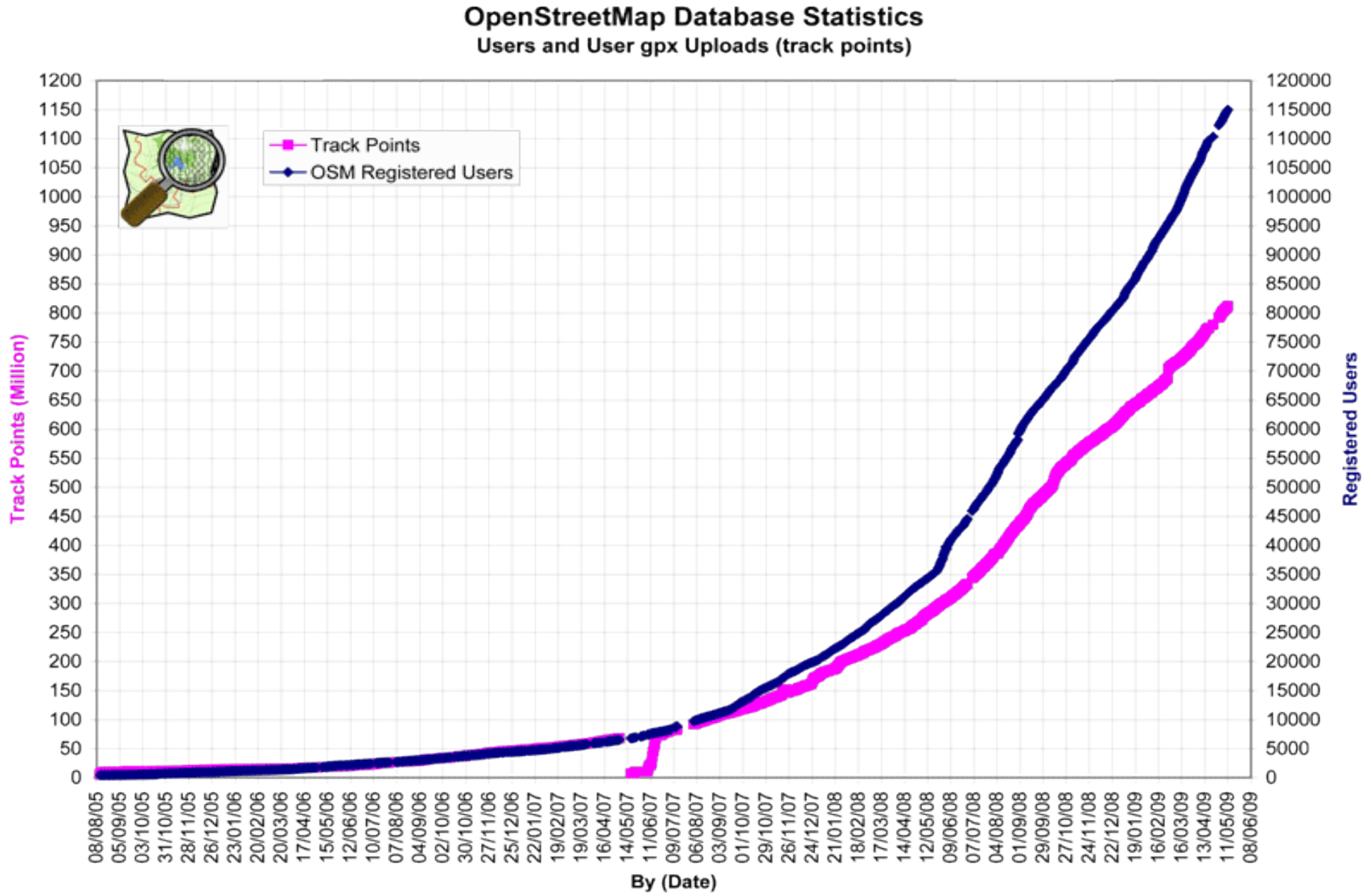
(US-90)
(I-10)

How is OpenStreetMap different?

“OpenStreetMap is a project aimed squarely at creating and providing free geographic data such as street maps to anyone who wants them”

Free
Open
Editable
Collaborative

Great value to humanitarian work,especially in places where base map data is often scarce and out of date



Number of users	121,070	10,000 regular editors per month
Number of uploaded GPS points	87,599,3078	
Number of nodes	364,446,746	
Number of ways	28,384,913	

Amsterdam
S101
A10
N200
S116
S112
A1

Madrid

Argüelles
Ventura Rodríguez
Plaza de España
Príncipe Pío
Príncipe Pío
Santo Domingo
Gran Vía
Gran Vía
Gran Vía
Chueca
Banco de España
Sevilla
Sol
Lago
Campo del Moro
A-5
Puerta del Ángel
Tirso de Molina
La Latina
Antón Martín
Lavapiés
Atocha
Puerta de Toledo
Ronda de Toledo
Embajadores
Ronda de Valencia
Acacias
Pirámides
Atocha Renfe
Paseo del Prado
Paseo del Prado
Paseo de Recoletos
Paseo de la Castellana
Calle de Serrano
Serrano
Velázquez
Goya
Retiro
Príncipe de Vergara
Calle de O'Donnell
O'Donell
Lista
Manuel Becerra
Ventas
Sainz de Baranda
Parque del Buen Retiro
Avenida de Menéndez Pelayo
Conde de Casal
Calle del Doctor Esquerdo
Avenida de la Ciudad de Barcelona
Pacífico
Méndez Álvaro
Calle de Méndez Álvaro
Paseo de las Delicias
M-30
M-30
Marqués de Vadillo
Pradera de San Isidro
Cuña Verde de la Latina
Urgel
de Extremadura

Pretoria
Aldara Park
Linden
Birnam Park
Savoy Estate
Melrose North
Waverley
Glenhazel
Fairmount
Valeriedene
Waterval Estate
Montgomery Park
Greenside
Parkwood
Oaklands
Orchards
Sydenham
Houghton Estate
Norwood
Riviera
Saxonwold
Orange Grove
Linksfield
Linksfield Ridge
Observatory
Cyrildene
Bellevue
Berea
Yeoville
De Wetshof
Bergbron
Greymont
Albertville
Delarey
Montclare
Newlands
Claremont
Westbury
Triomf
Westdene
Melville
Westcliff
Killarney
Parktown
Hillbrow
Braamfontein
Bertrams
Doornfontein
Bezuidenhoutsvalley
Kensington
Jeppestown
Malvern
Denver
Newclare
Coronationville
Crosby
Bosmont
Brixton
Rossmore
Auckland Park
Cottesloe
Wemmer
Mayfair West
Langlaagte North
Pearlshoop
Riverlea
Fordsburg
Vrededorp
Oshirton
M1
M2
M5
M10
M17
M18
M27
M31
R24
R25
R41
N1
Main Road
Louis Botha Avenue
Pretoria Ave
Grant Avenue
11th Avenue
Ivy Road
Oxford Road
Jan Smuts Avenue
West St
1st Ave
Barry Hertzog
Greenside Road
Empire Road
Rissik Street
Marshall Street
Kitchener Avenue
Roberts Avenue
Jules Street
Main Reef Road
Old Potchefstroom Road
5th Street
Long Road
Park Road
Delarey Road
Tana Road
6th Street
Pretor Drive
Jan Smuts Avenue
Oxford Road
Louis Botha Avenue
Pretoria Ave
Grant Avenue
Oxford Road
Orchards Road
Linksfield
Linksfield Ridge
Barry Hertzog
Greenside Road
Empire Road
Rissik Street
Marshall Street
Kitchener Avenue
Roberts Avenue
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Montclare
Newlands
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Triomf
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Old Potchefstroom Road
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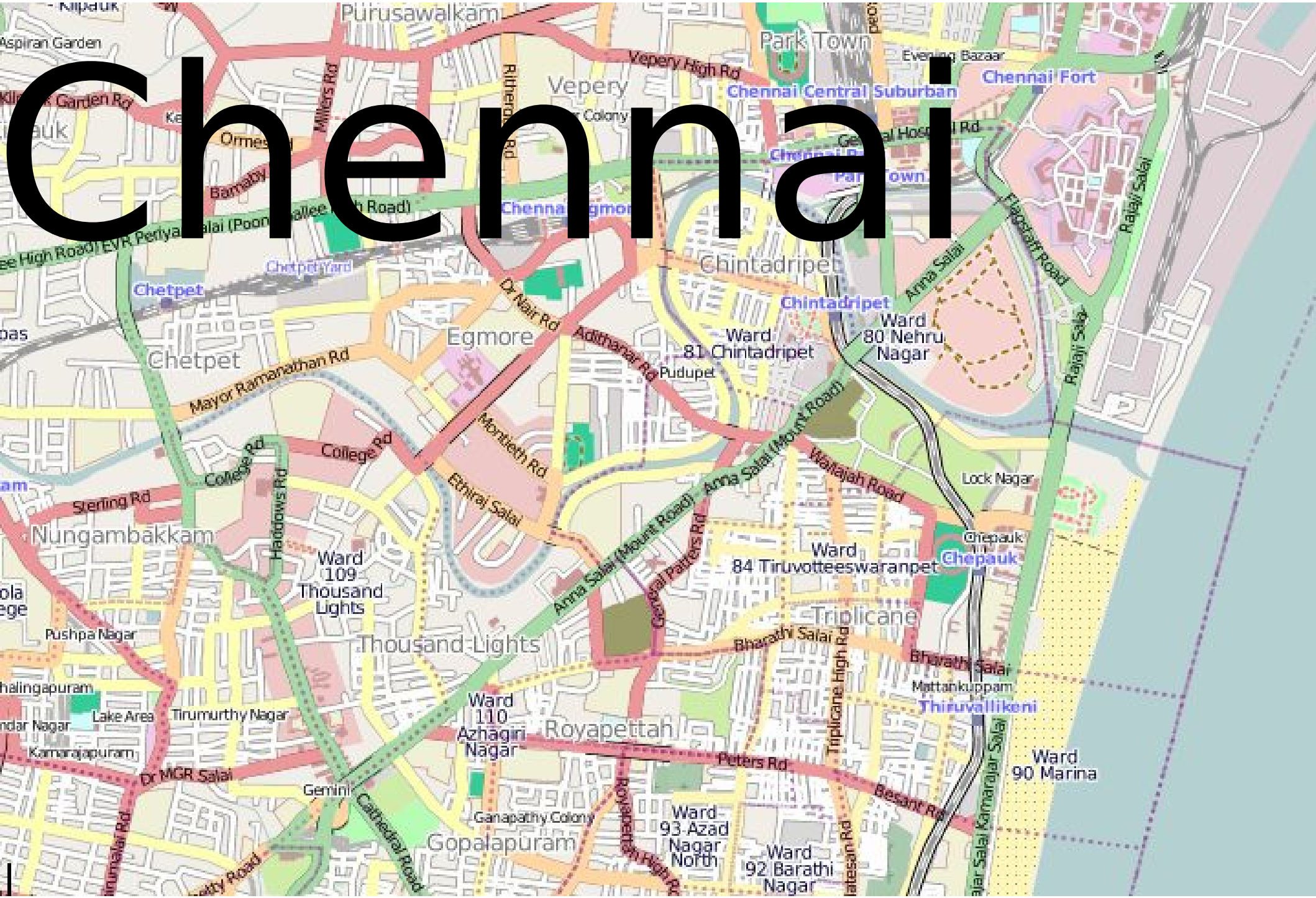
Chennai



Purusawalkam
Aspiran Garden
Park Town
Vepery High Rd
Vepery
Chennai Central Suburban
Chennai Fort
Evening Bazaar
Millers Rd
Ormes
Barnaby
Chetpet Yard
Chetpet
Chintadripet
Chintadripet
Anna Salai
Flagstaff Road
Rajaji Salai
Egmore
Dr Nair Rd
Adithanar Rd
Ward 81 Chintadripet
Ward 80 Nehru Nagar
Pudupet
Chetpet
Mayor Ramanathan Rd
Montieth Rd
College Rd
Ethiraj Salai
Anna Salai (Mount Road)
Wallajah Road
Lock Nagar
Sterling Rd
Haddows Rd
Nungambakkam
Ward 109 Thousand Lights
Ward 84 Tiruvotteeswaranpet
Chepauk
Chepauk
General Patters Rd
Triplicane
Bharathi Salai
Bharathi Salai
Pushpa Nagar
Thousand Lights
Mattankuppam
Thiruvallikeni
Lake Area
Tirumurthy Nagar
Ward 110 Azhagiri Nagar
Royapettah
Triplicane High Rd
Kamarajapuram
Dr MGR Salai
Peters Rd
Besant Rd
Ward 90 Marina
Gemini
Cathedral Road
Ganapathy Colony
Royapettah High Rd
Ward 93 Azad Nagar North
Gopalapuram
Ward 92 Barathi Nagar
Kamarajar Salai

Berlin

B 96
B 96a
Prenzlauer Berg
Turmstraße
Alt Moabit
Hansaviertel
Mitte
Tonstraße
B 2
B 2; B 5
B 2;B 5
B 1;B5
Friedrichshain
Straße des 17. Juni
Tiergarten
B 1
Leipziger Straße
Kantstraße
Kreuzberg
Skalitzer Straße
B 179
Blücherstraße
Urbanstraße
Hasenheide
Dudenstraße
Alt-Treptow
Straßau

Mähnenwölfe
Tropenbären
Flußpferde
Spielplatz
Pinguine
Rosa-Luxe
Zebras
Antilopen
Zoologischer Garten Berlin
Robben
Rinder
Büffel
Bisons
Antilopen
Antilopen
Zebras
Hardenbergplatz
Zoologischer Garten Berlin
Hirsche
Elefanten
Antilopen
Giraffen
Antilopen
Garten
Flamingos
Bonobos
Gorillas
Affen
Gibbons
Schimpansen
Orang-Utans
Pandas
Tiger
Löwen
Pelikane
Zoo Palast
Aquarium

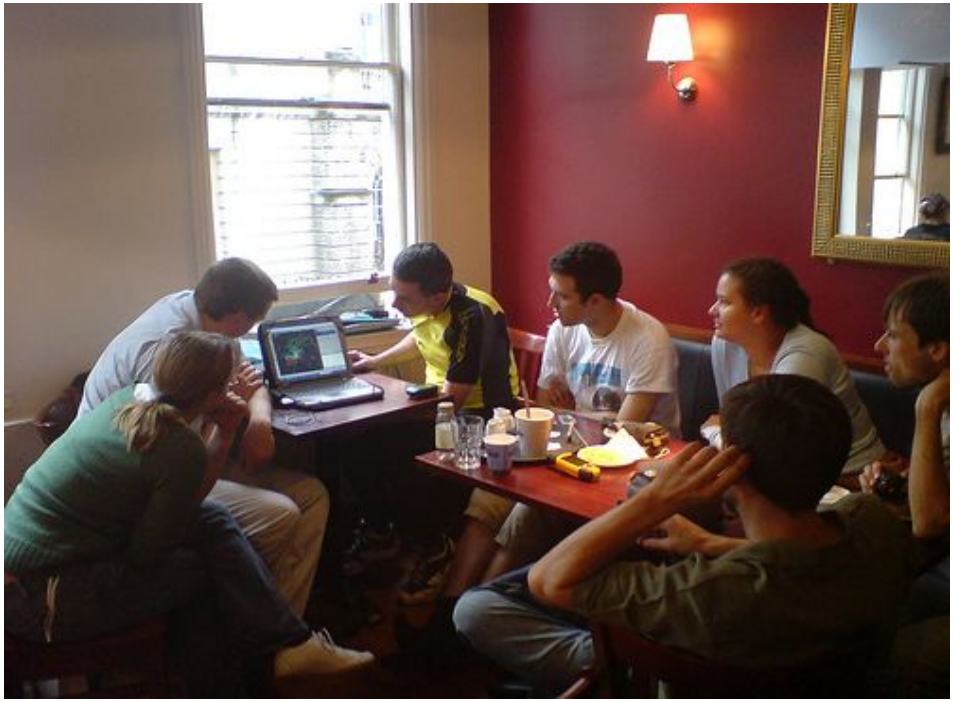
How

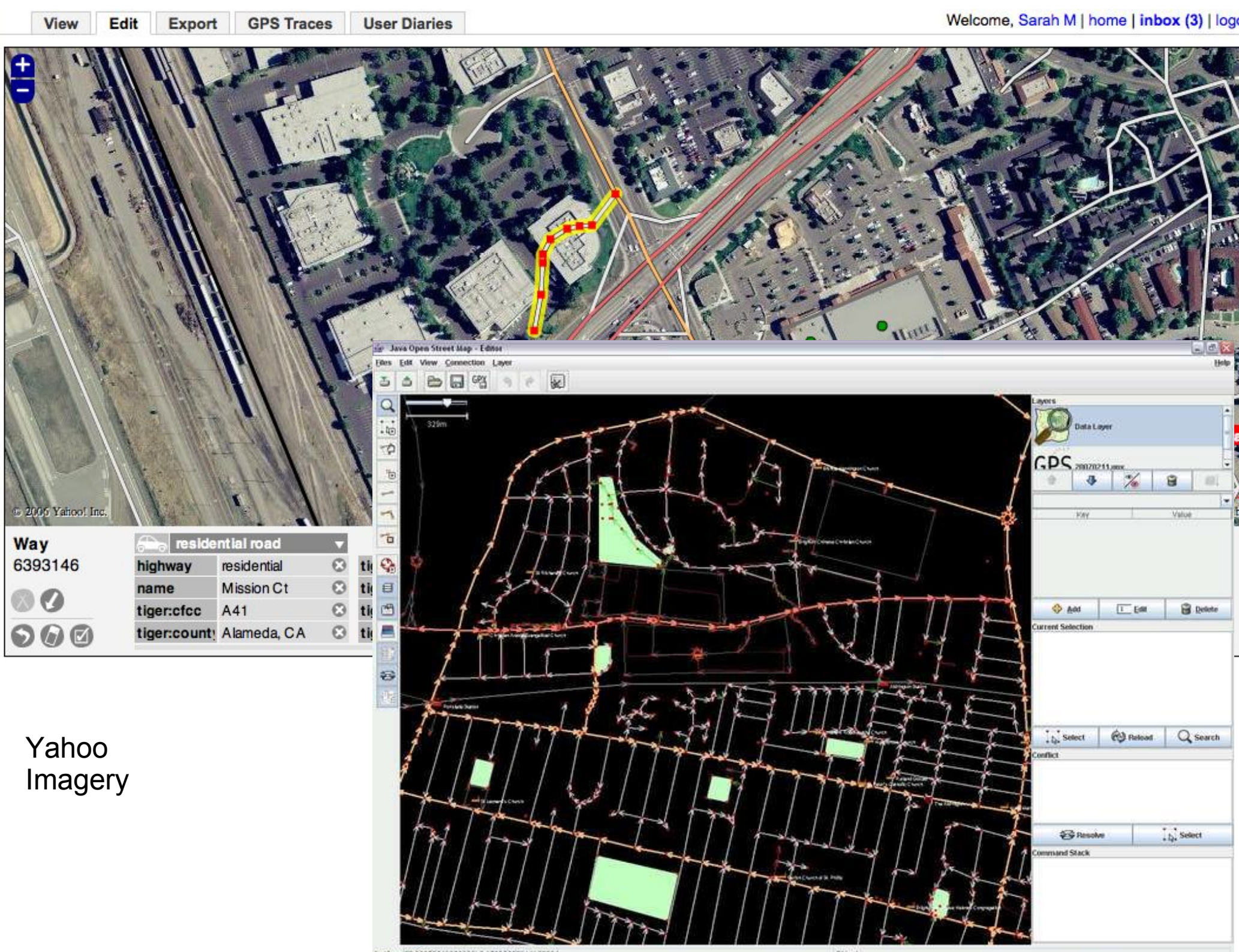
GPS Surveying

Mapping Parties

Imagery Digitizing

Open Database



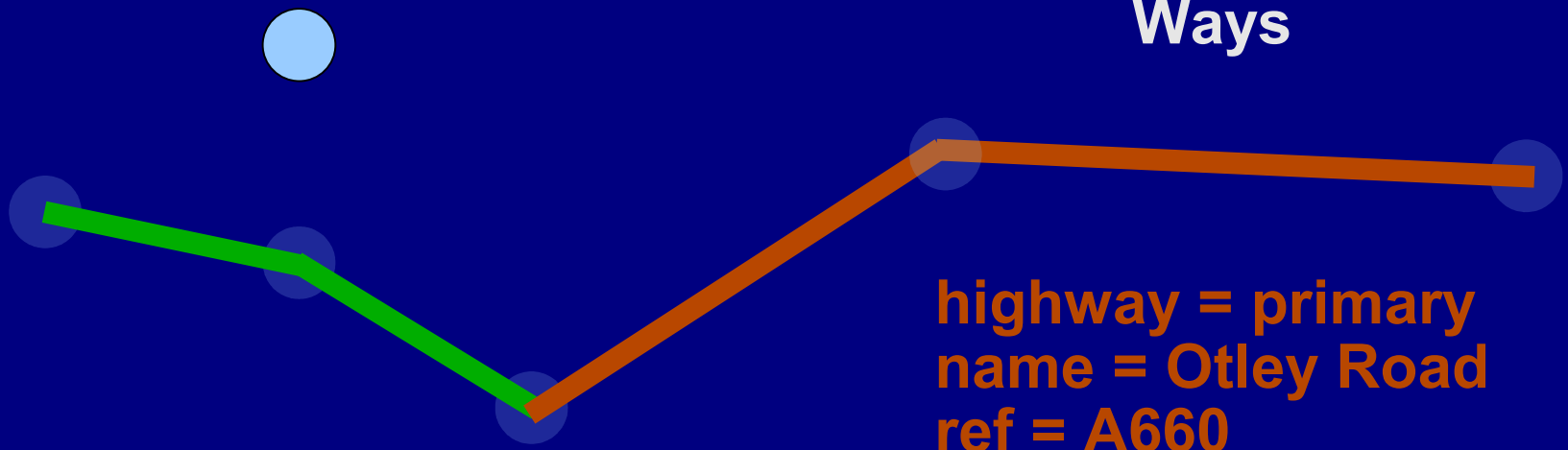


Yahoo
Imagery

Simple

Points

amenity = hospital
name = Saint James
emergency = yes

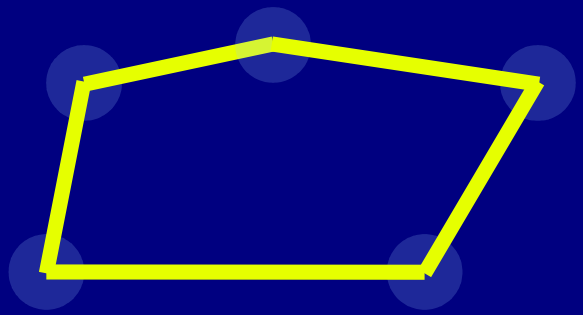


Ways

highway = primary
name = Otley Road
ref = A660

highway = residential
name = Chestnut Lane
oneway = true
surface = flags

Areas



leisure=nature_reserve

You can get the data

CC BY SA licensed

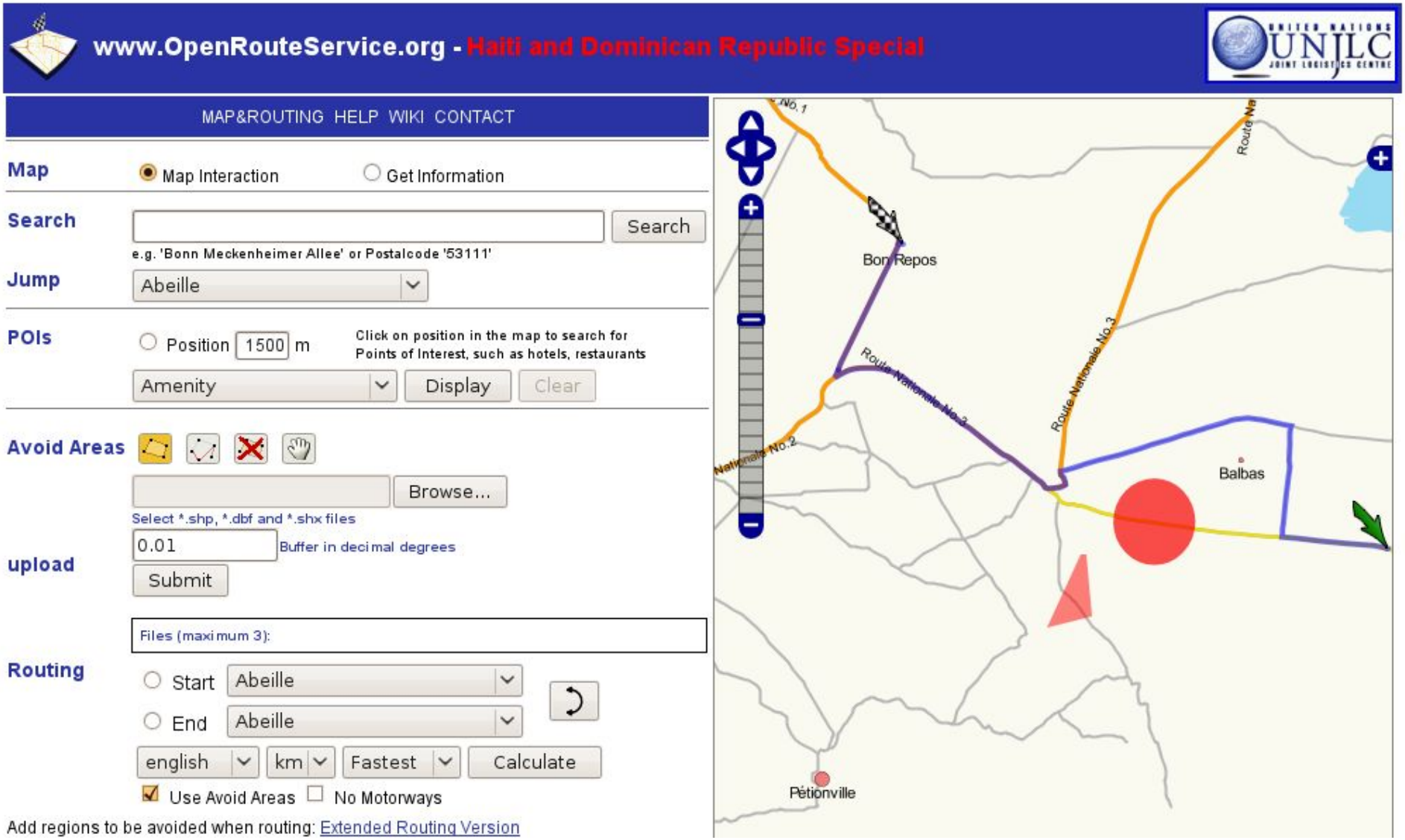
Ecosystem - Open Data

- Stylers
- Applications
- Mobile Apps
- Routers
- Map Renderers

Haiti

OpenRouteService.org
Bonn University

Haiti import CNIGS, CartONG, UNJLC



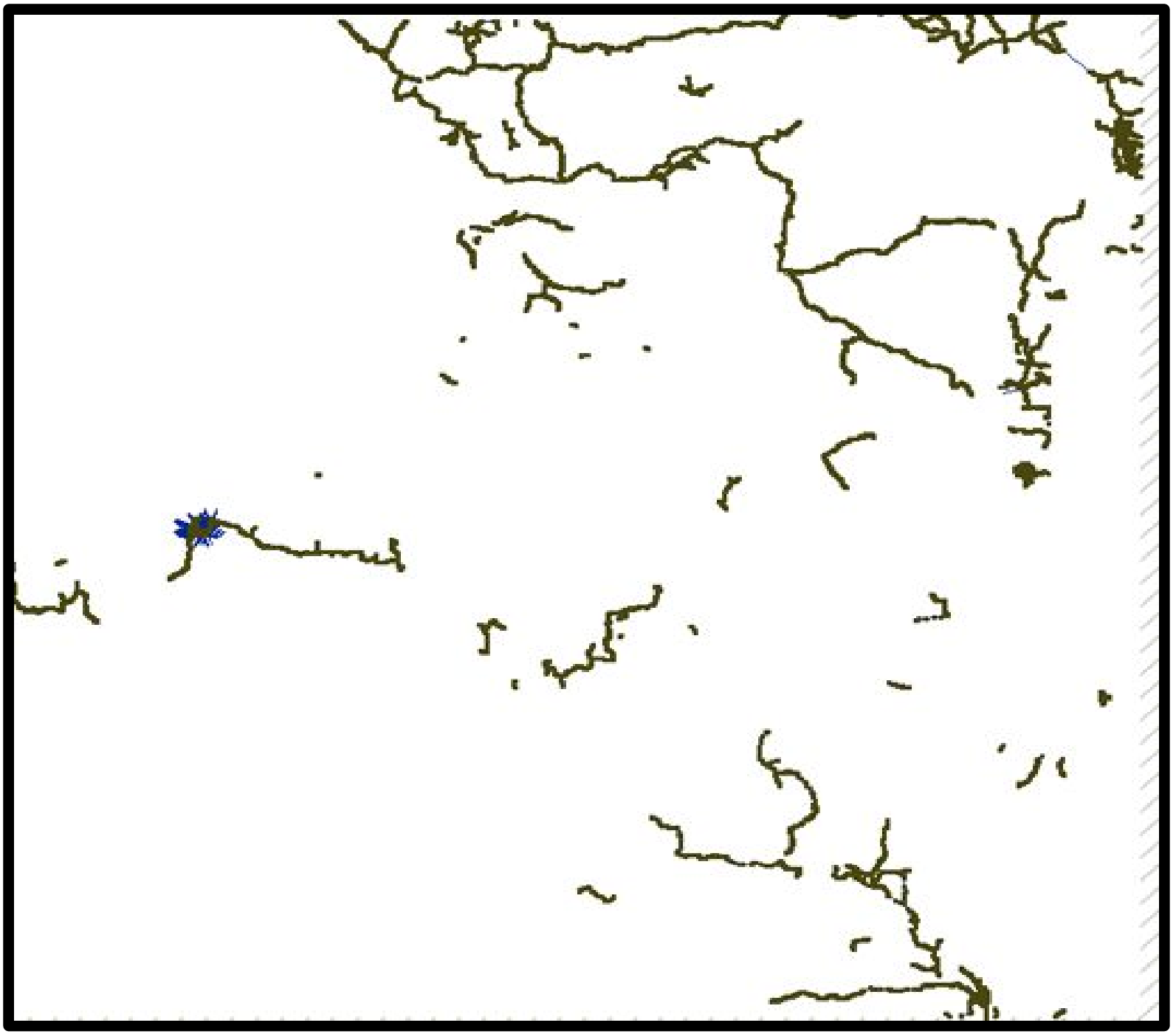
Development Seed
FAO Africover

Hundreds of thousands of miles of roads
for over 10 African countries

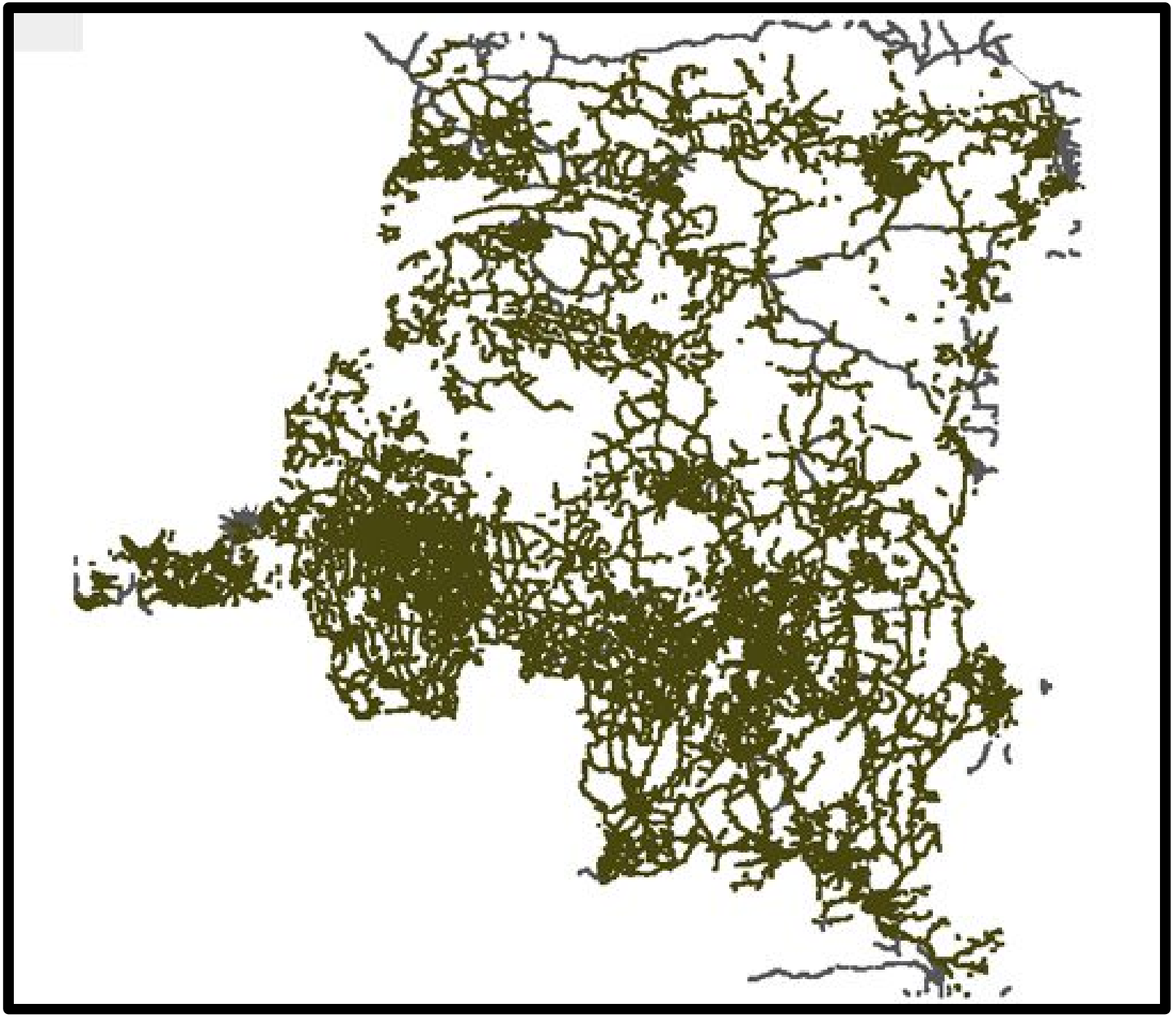
FAO's Africover project
UN's DEPHA

http://www.developmentseed.org/blog/2009/apr/22/thousands_of_miles_added_open_street_map

Congo DRC – before

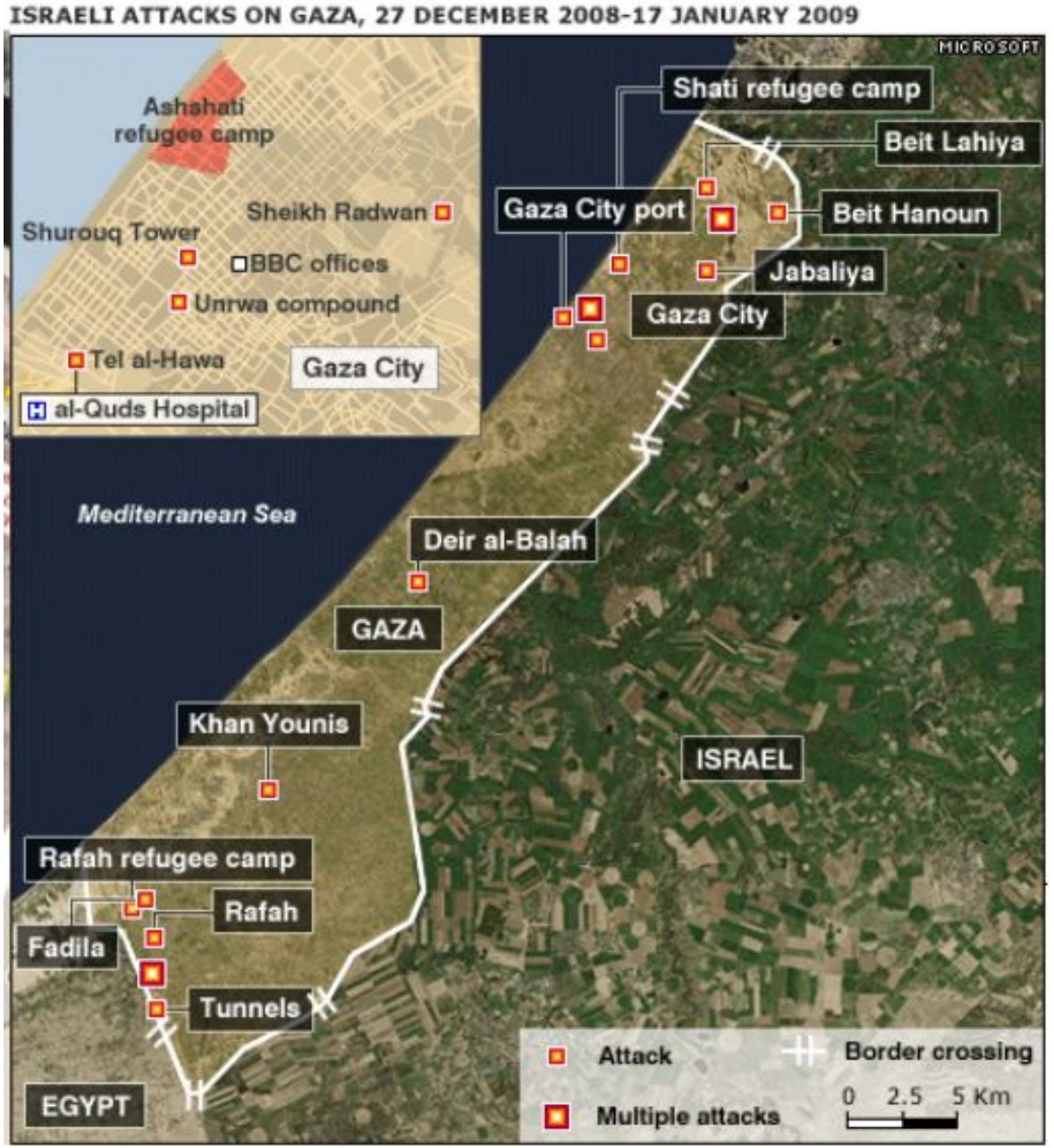


Congo DRC – Africover Import



Gaza - January 2009

Gaza



BBC

Wrong Labels

Gaza

Help!

Twitter

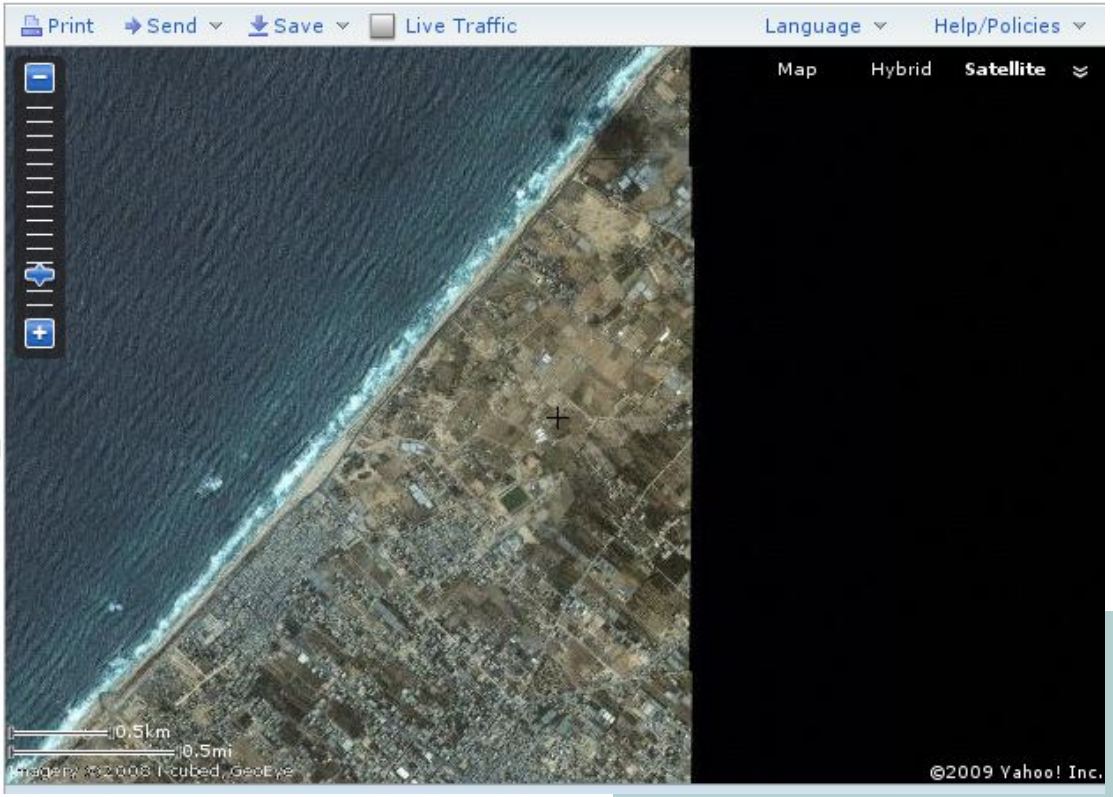
Email

Blogs

Reuters Alertnet

THOMSON REUTERS
FOUNDATION

AlertNet
Alerting humanitarians to emergencies

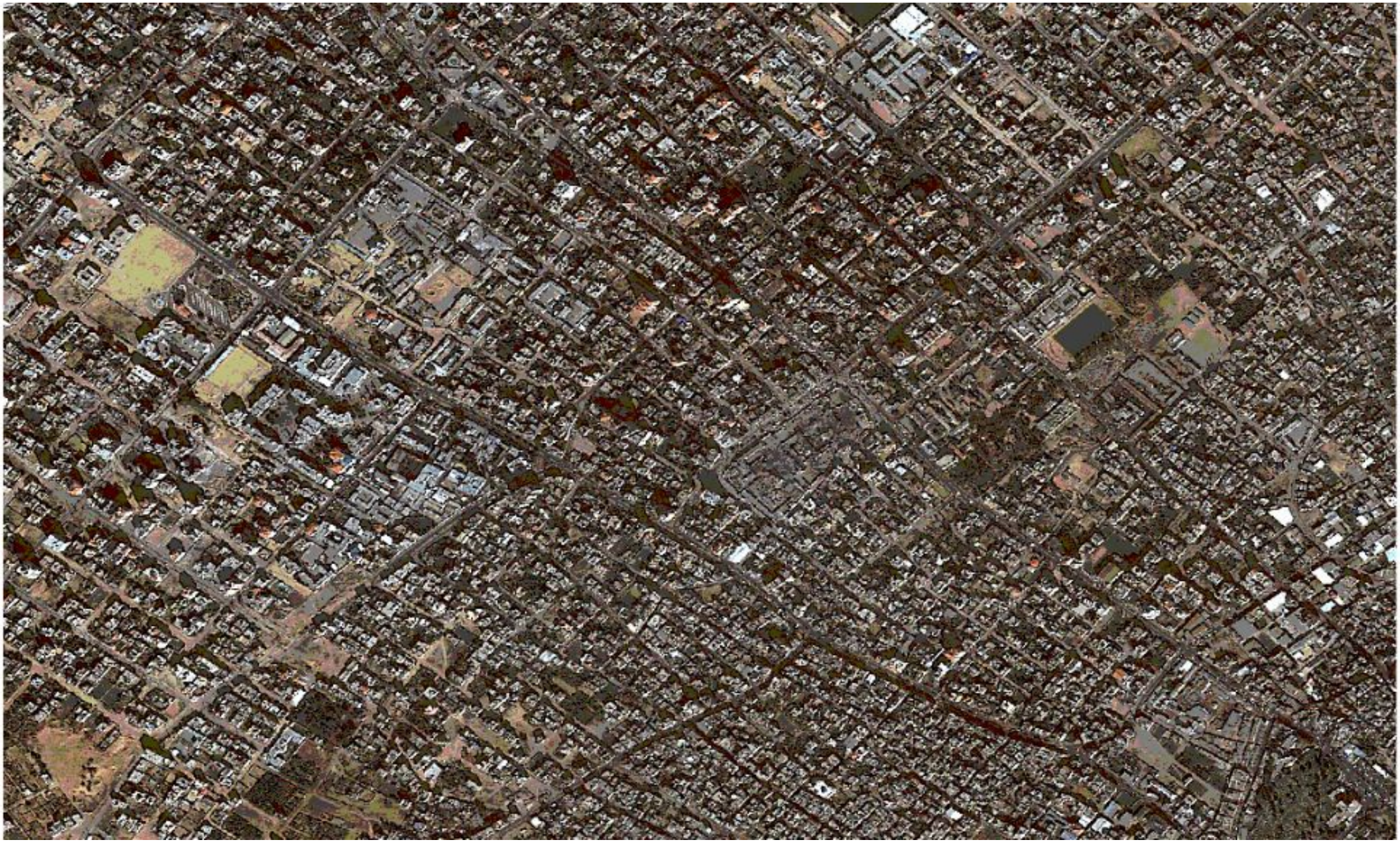


Southern Gaza,
Remote Mappers
7 Days

Yahoo Imagery

Fundraiser
for data
5K in days

2m DigitalGlobe Mid-January

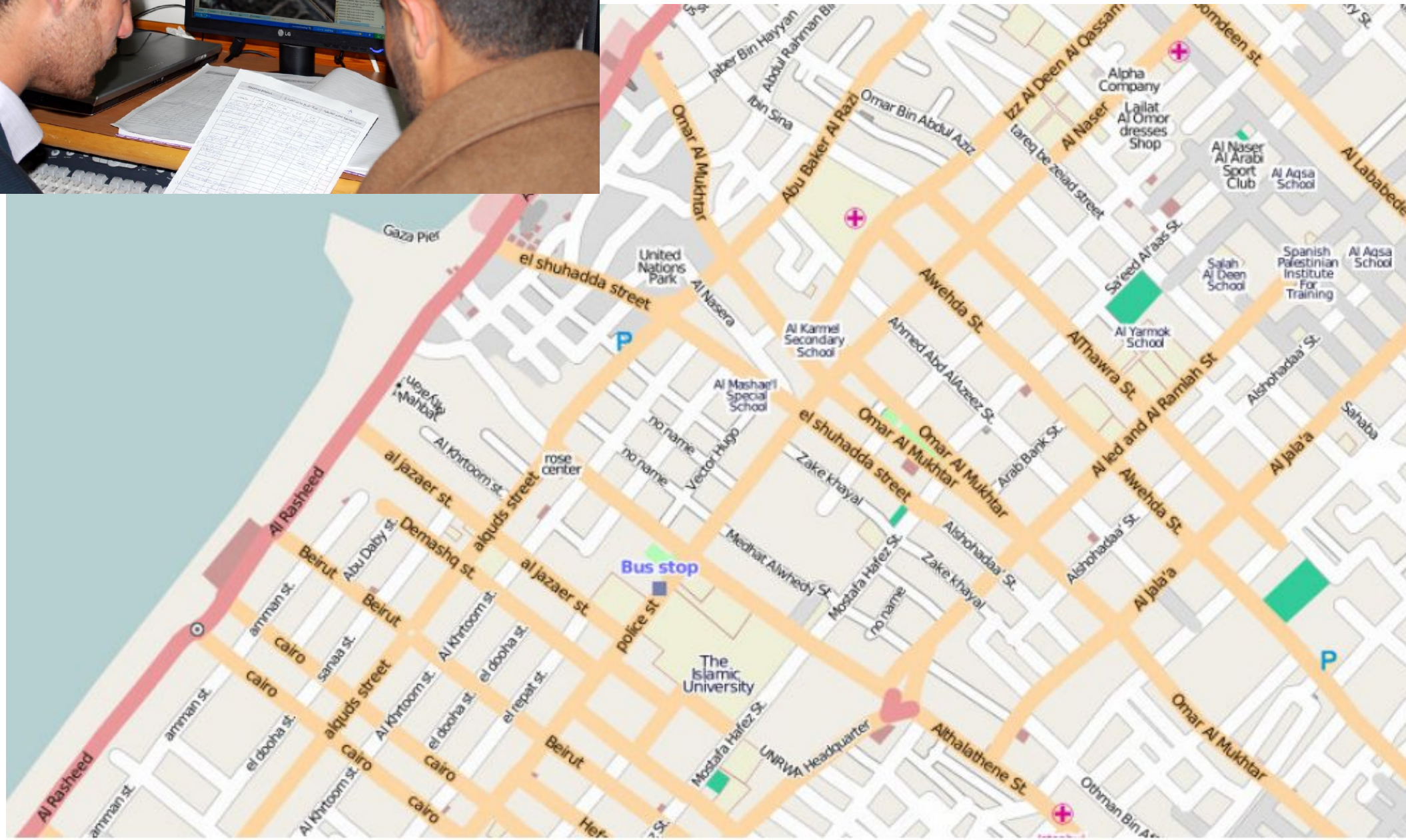


Jumpstart enters mid-March

Local knowledge
Ground truths data

http://jumpstart-mapping.blogspot.com/

Gaza City Today



Complete Roads and POI in West Bank and Gaza

H.O.T.
Humanitarian OpenStreetMap Team

A new initiative to apply the principles and activities of open source and open data sharing towards humanitarian response and economic development

Import of UN map data for **Sudan**

Routing, Import of data and GPS mapping in **Haiti** following Hurricane Gustav

OSM training following Cyclone **Nargis**

Technical advising in **Palestinian West Bank** mapping

Advocacy and Mapping Parties in **Egypt, Kenya, South Africa**

FreeMapIndia 2008 Workshop Tour

15 Scholarships for developing world mappers to attend **State of the Map** 2009

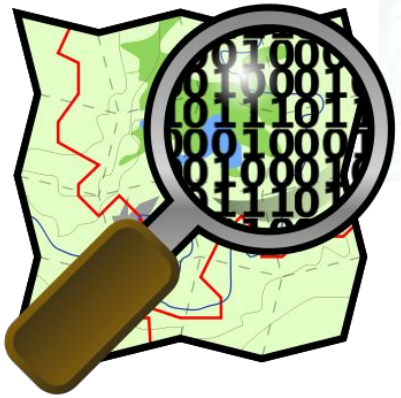
Future

Collaborative

Open

Responsive

Free



tim@geothings.net @tim_waters