



Using open data and OSM

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Humanitarian uses

<http://www.missingmaps.org/>

<http://tasks.hotosm.org/>

<http://mapgive.state.gov/>

Humanitarian uses - examples on the TM

Nigeria: Gombe State Road Network Mapping for Vaccine Delivery Routing - <http://tasks.hotosm.org/project/1438>

Uganda Bureau Of Statistics Educational Facilities Import - <http://tasks.hotosm.org/project/1434>

Missing Maps: Central Swaziland - Malaria Elimination Programme - <http://tasks.hotosm.org/project/1429>

Ebola Response and Prevention, Sierra Leone, Kambia District - <http://tasks.hotosm.org/project/1168>

Nepal Earthquake Mapping - Dhunche Rasuwa (Highly affected area) - <http://tasks.hotosm.org/project/1015>

Ebola response, West Africa

http://wiki.openstreetmap.org/wiki/2014_West_Africa_Ebola_Response



Photo: MSF

Organizing logistics in Nepal with an OSM map



Business uses

- Mapbox
- CartoDB
- Strava
- Ally (public transport routing)
- Foursquare
- Maps.me

Academic & government

World Bank - Open Data for Resilience Initiative (OpenDRI) - <https://www.gfdrr.org/opendri>

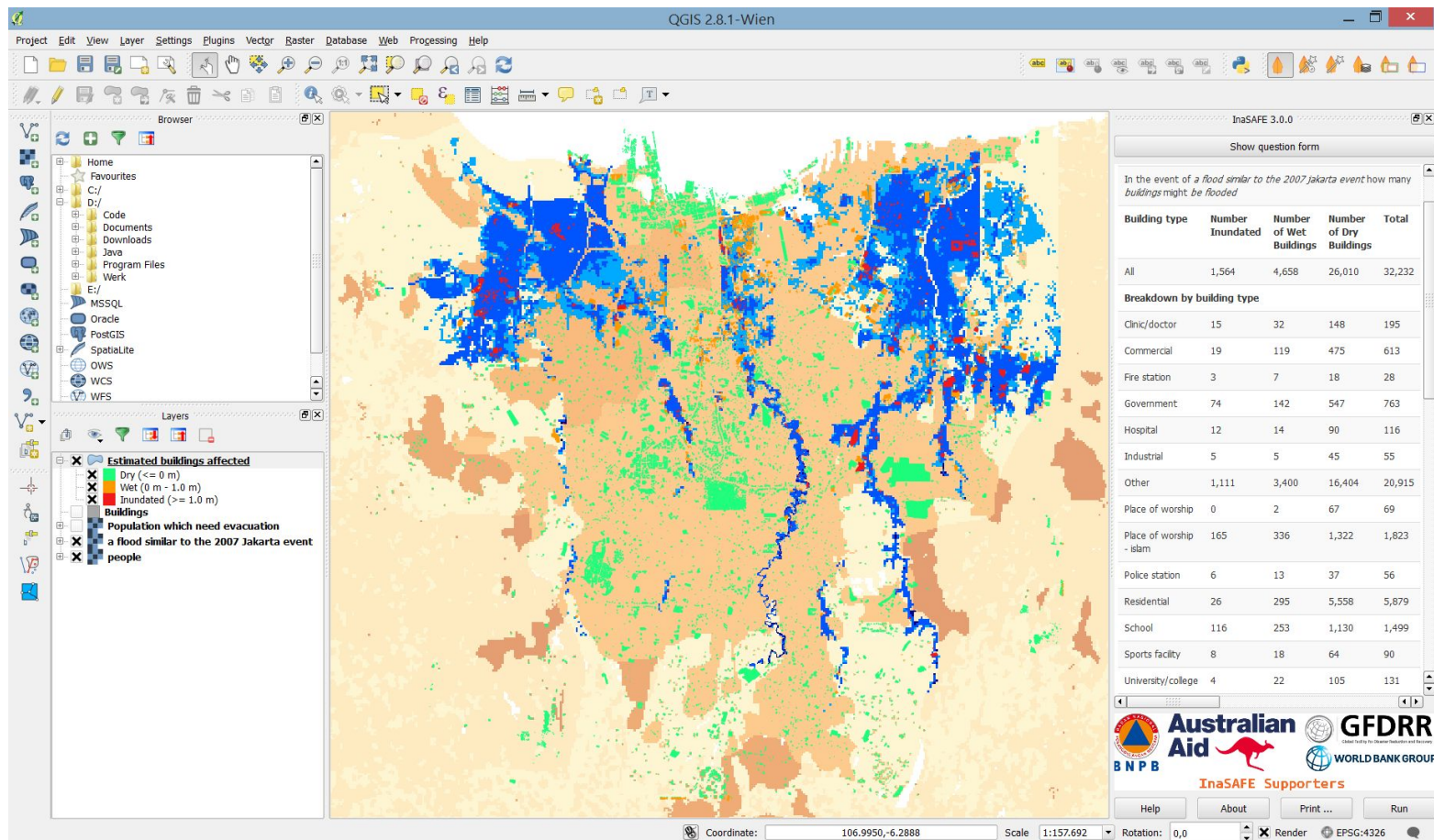
National Park Service - <http://www.nps.gov/npmap/blog/introducing-park-tiles.html>

Manage road data - Philippines - <https://developmentseed.org/blog/2015/04/15/openstreetmap-for-government/>

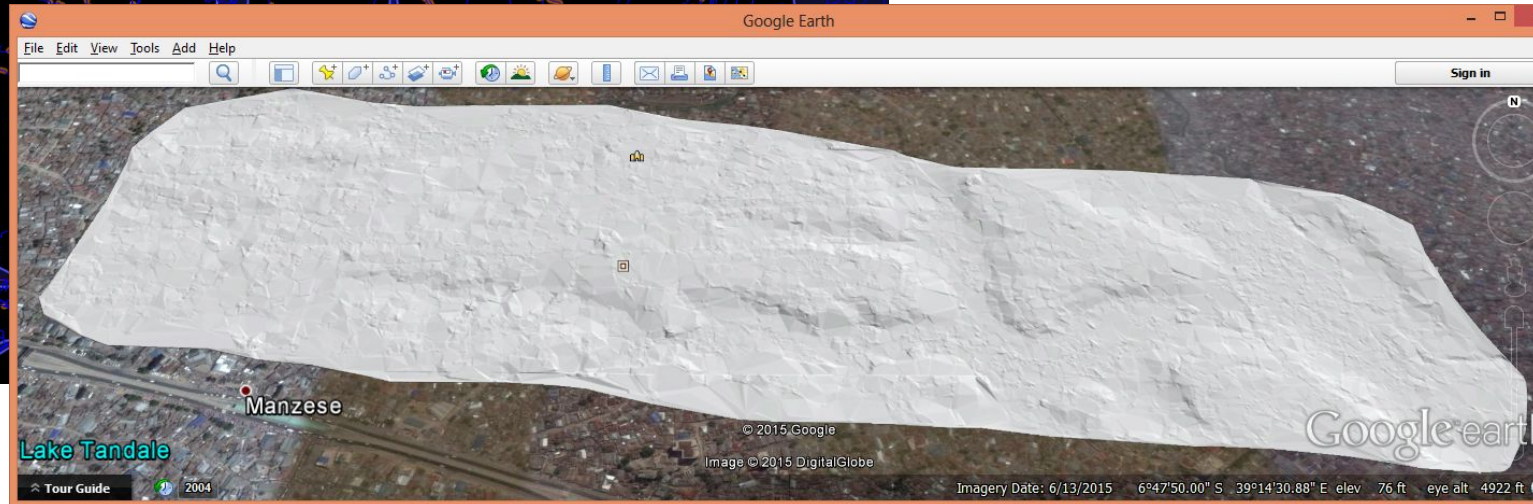
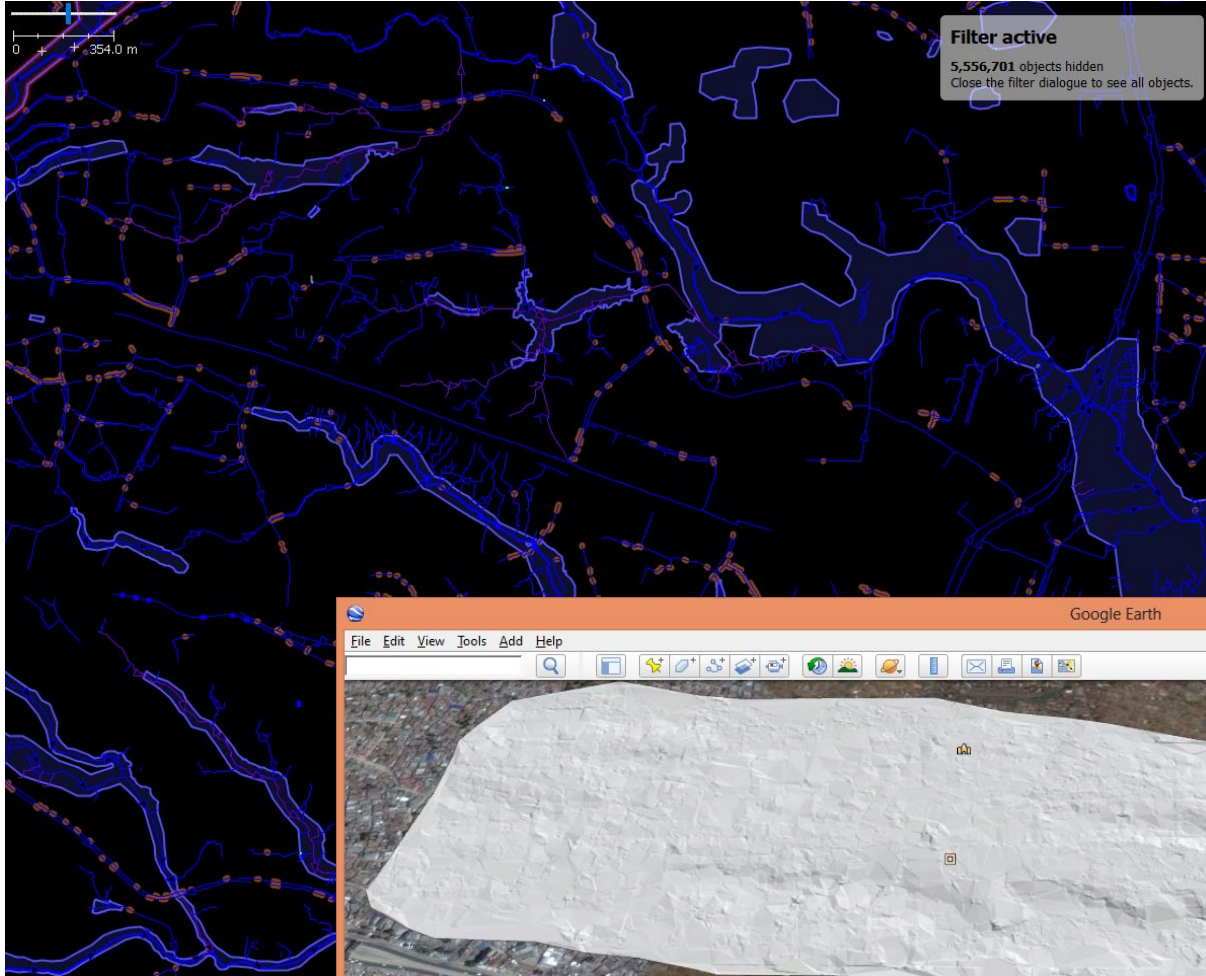
Uganda Bureau Of Statistics Educational - <http://tasks.hotosm.org/project/1434>

DRM / Risk assessment

Combining hazard data (flooding, landslides, etc) with exposure (buildings, population density, etc)



Analyzing water/drainage network in Dar



Where to get data?

HDX (worldwide, also Uganda): <https://data.hdx.rwlab.org/search?q=uganda>

Ugandan open data sets: <http://data.ug/>

Worldpop: <http://www.worldpop.org.uk/>

OSM data: <http://export.hotosm.org/en/>

UBOS: <http://www.ubos.org>

OSM data: export tool

<http://export.hotosm.org/en/>

What to export:

- Roads (highway=*)
- Education, health (amenity=clinic,hospital,school,kindergarten, university)
- Water system (waterway=*)
- In our case, financial services (amenity=bank, atm, mobile_money_agent, etc)

OSM data

Overpass

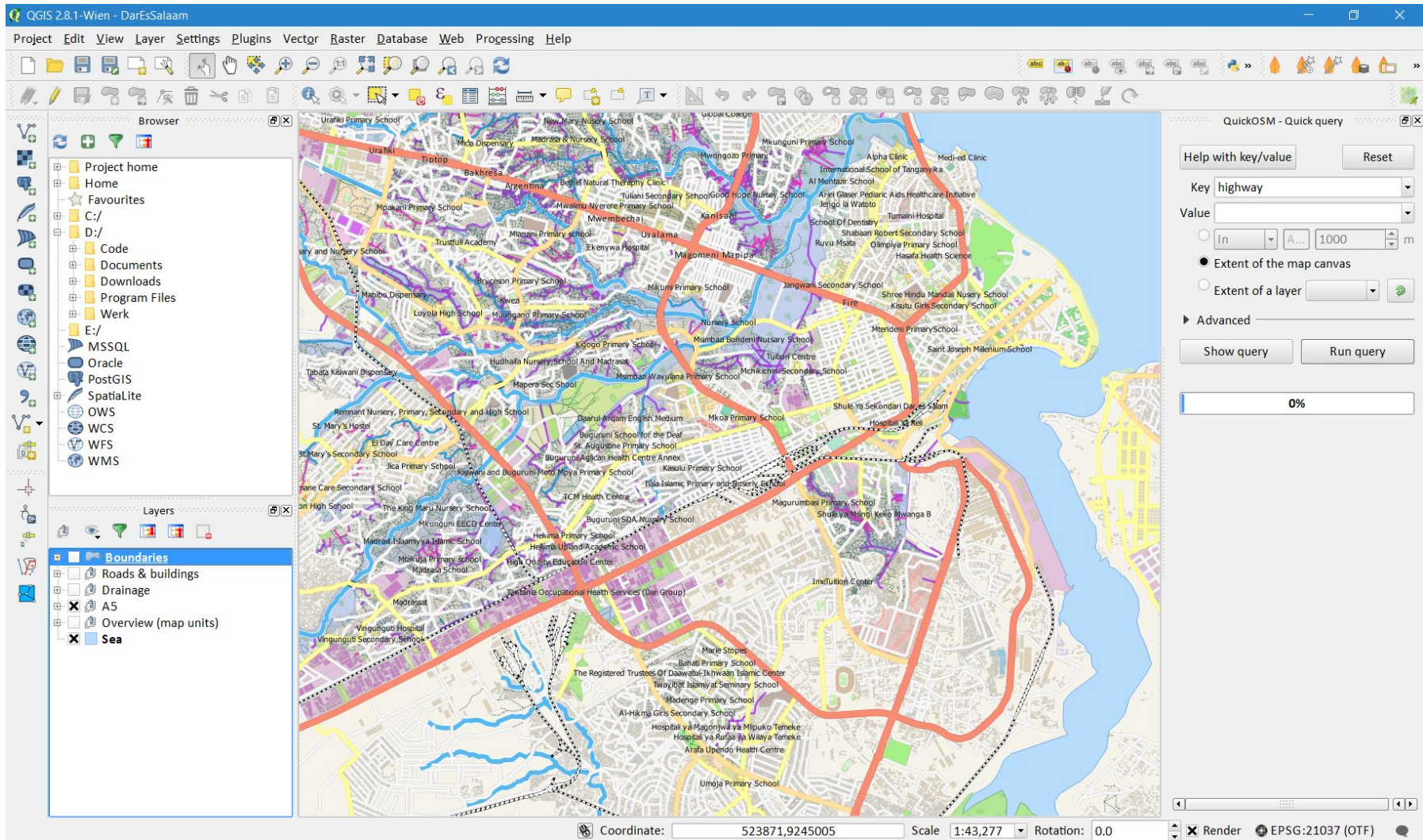
- <http://overpass-turbo.eu/>
- From within JOSM
- From within QGis

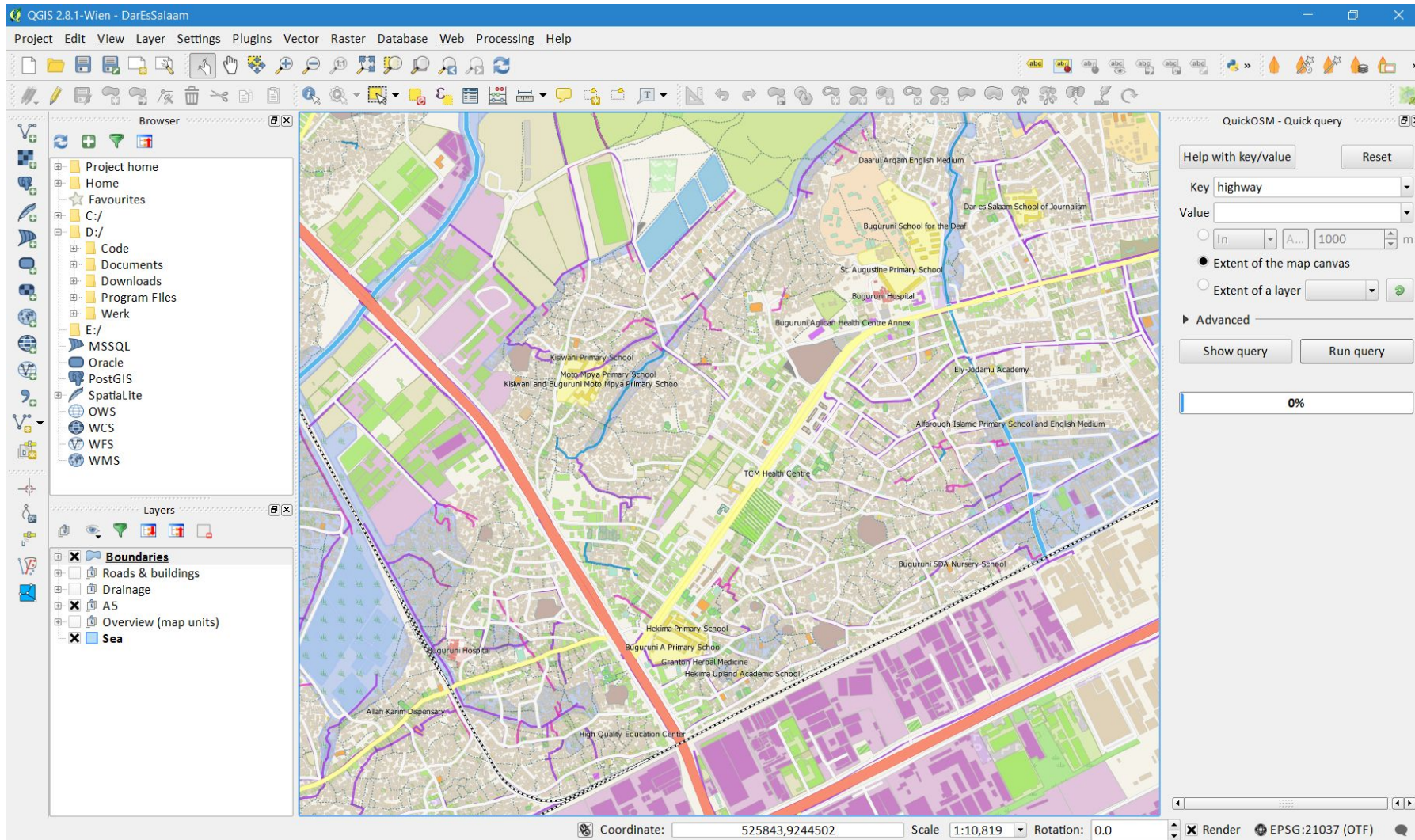
Full extracts:

- <http://download.geofabrik.de/africa.html>
- <http://wiki.openstreetmap.org/wiki/Planet.osm>

Spatial databases (PostGIS, Mysql Spatial, Oracle Spatial)

- <http://learnosm.org/en/osm-data/osm2pgsql/>





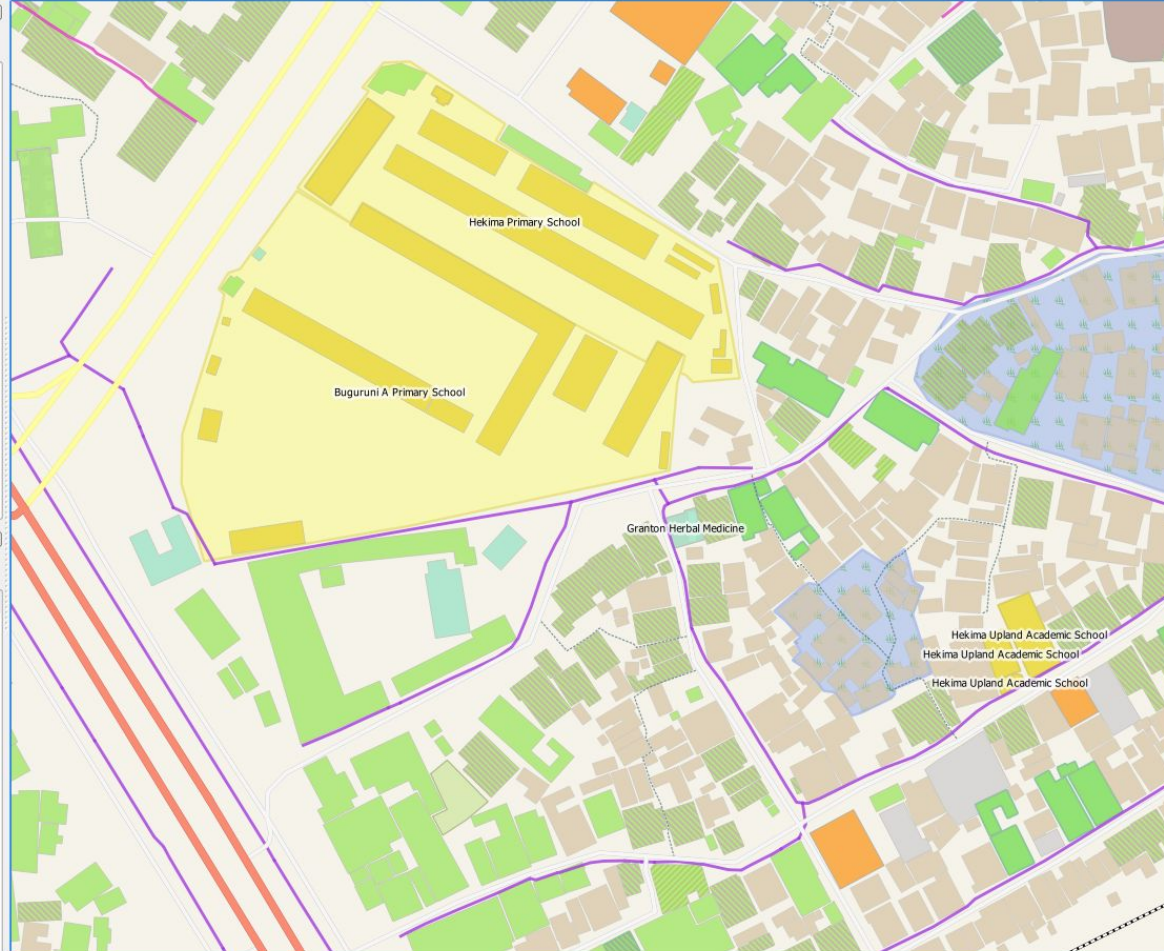


Browser

- Project home
- Home
- Favourites
- C:/
- D:/
- Code
- Documents
- Downloads
- Program Files
- Werk
- E:/
- MSSQL
- Oracle
- PostGIS
- Spatialite
- OWS
- WCS
- WFS
- WMS

Layers

- ☐ Boundaries
- ☐ Roads & buildings
- ☐ Drainage
- ☒ A5
- ☐ Overview (map units)
- ☒ Sea



QuickOSM - Quick query

Help with key/value Reset

Key highway

Value ☐ In ☒ Extent of the map canvas☐ Extent of a layer

Advanced

Show queryRun query

0%

Coordinate: Scale: Rotation: ☒ Render ☒ EPSG:21037 (OTF)

