KIBERA: AFRICA'S LARGEST INFORMAL SETTLEMENT OPENSTREETMAP IN ACTION

by
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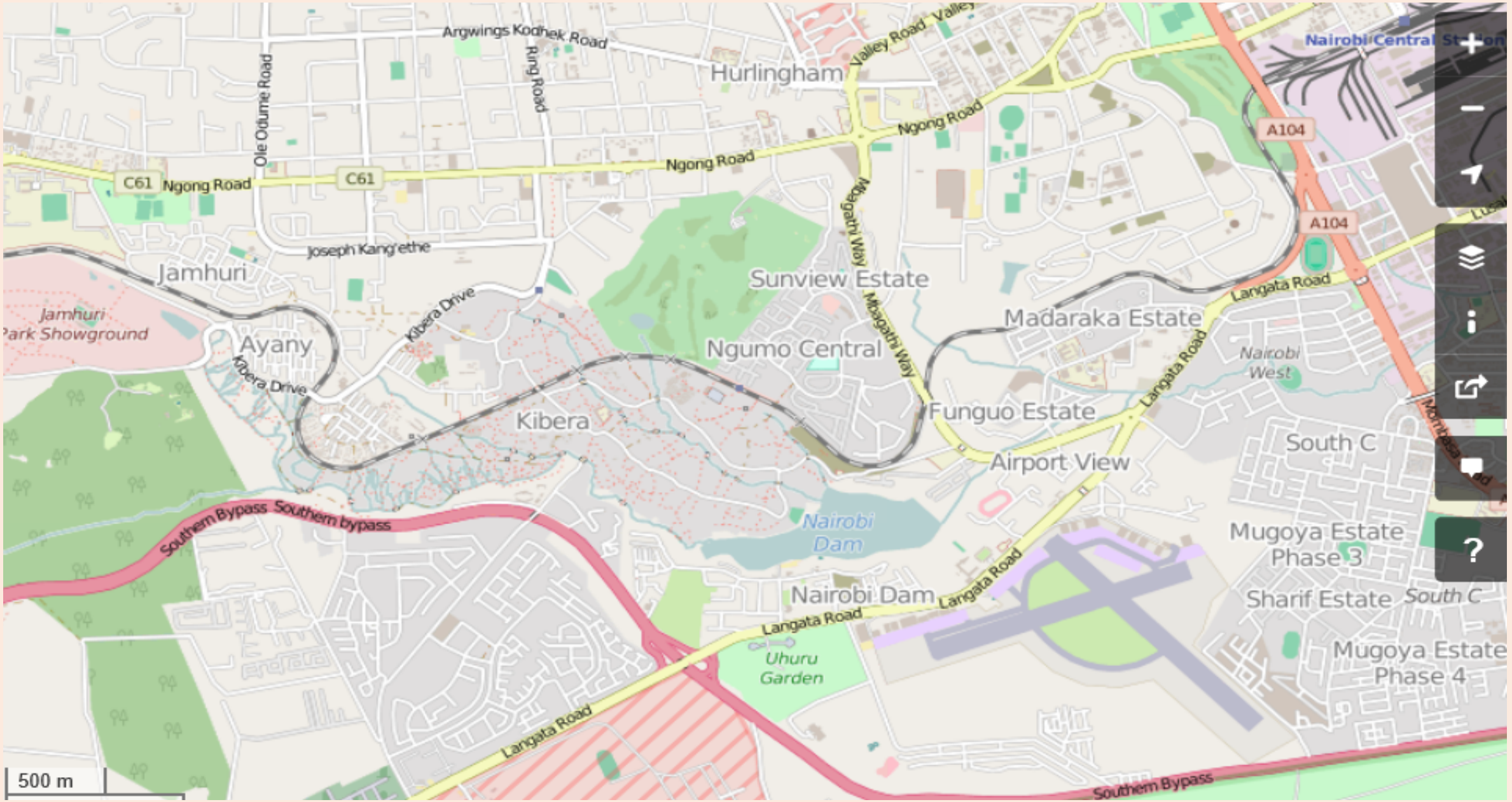
BACKGROUND

Kibera is reported to be Africa's largest informal settlement, having an estimated population of somewhere around 250 000 people. It is located in Nairobi, Kenya's capital city.

On 24 March 2016 I had the privilege of being taken through the area by two Kibera based people, Joshua Ogure (Kariba community journalist and Map Kibera Project Coordinator) and Jacob Ouma (Kibera mapping project photographer). I was introduced to Joshua and Jacob through Mikel Maron, a member of the Board of the OpenStreetMap Foundation who has been involved with Kibera since 2009.

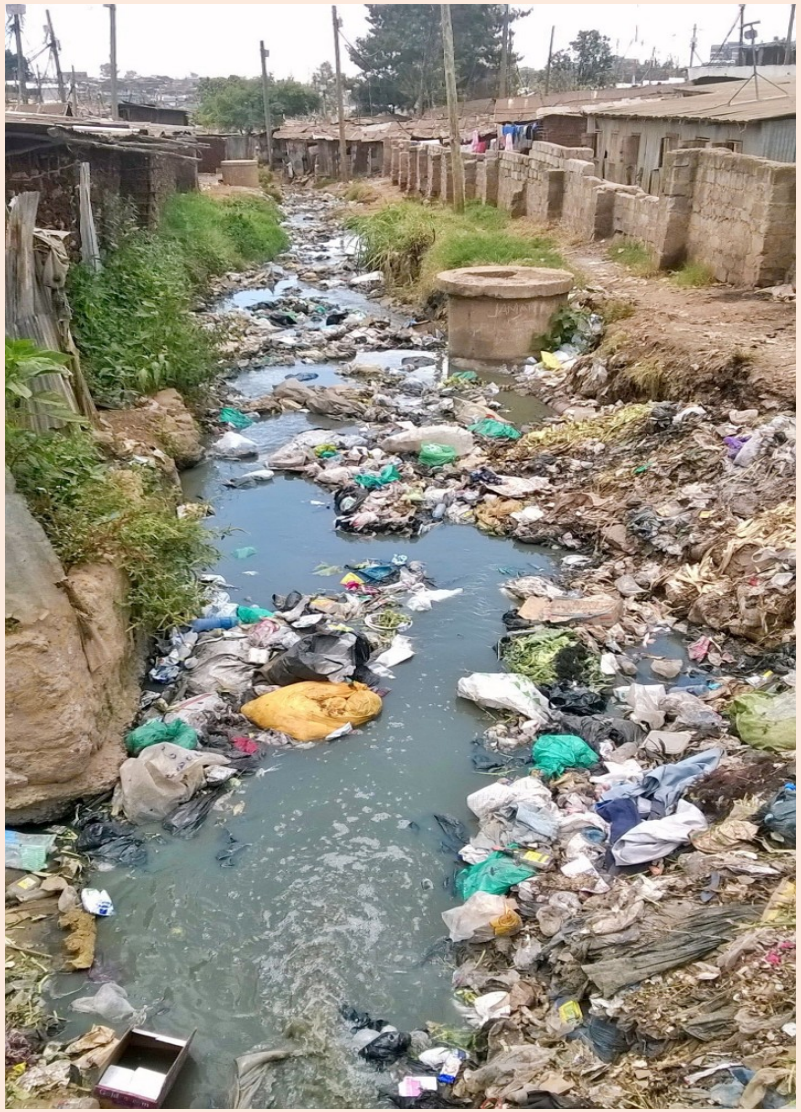
Before considering briefly the Map Kibera project it is appropriate to provide a brief visual picture of Kibera.


Argwings Kodhek Road
Ole Odume Road
Ring Road
Hurlingham
Valley Road
Ngong Road
C61
Ngong Road
C61
Ngong Road
Mbagathi Way
A104
A104
Joseph Kang'ethe
Jamhuri
Jamhuri Park Showground
Ayany
Kibera Drive
Kibera Drive
Sunview Estate
Ngumo Central
Madaraka Estate
Langata Road
Nairobi West
Kibera
Funguo Estate
Airport View
South C
Southern Bypass
Southern bypass
Nairobi Dam
Mugoya Estate Phase 3
Nairobi Dam
Langata Road
Sharif Estate
South C
Langata Road
Uhuru Garden
Mugoya Estate Phase 4
Langata Road
Southern Bypass
500 m

SOLID WASTE

No organised disposal arrangements.

SOLID WASTE



MOVEMENT

A myriad of pedestrian routes … everywhere.

MOVEMENT

A rail line through the area is used by trains on a daily basis. A few hardened roads exist which are capable of accommodating car through traffic. Some limited road building is taking place, with associated shack removals.

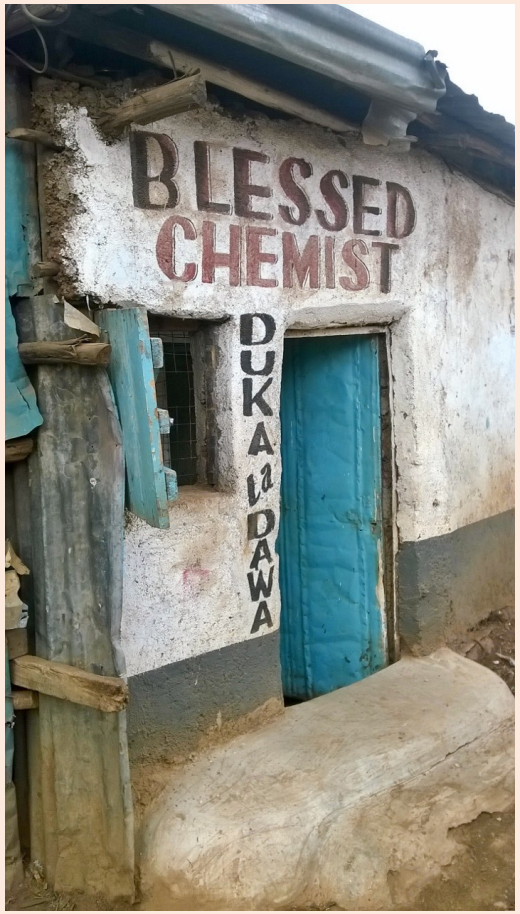
COMMUNITY FACILITIES

There are over 300 pre-school, primary and secondary schools in Kibera (top row), the overwhelming majority of which are established and run by local residents.

Other facilities include library (bottom left), community centres (bottom middle) and police posts (bottom right).

LOCAL BUSINESS

Small business are everywhere, providing for a wide range of local needs, including medicines, food, water, charcoal, kerosene, entertainment (cinema movies), photocopying, personal hygiene (showers), grooming and beauty, computer repair, tools, cycle repair, and many many others.



LOCAL BUSINESSES

. Enterprise activities at every turn.

UPGRADING PROCESS

An upgrading process is underway. Shacks have been demolished in one area, the residents moved temporarily into formal low rise apartments (upper right) before being moved back into their original upgraded area. The process would be repeated for residents in a next area. The process is slow and there is much to do.

OPENSTREETMAP & THE KIBERA MAPPING PROJECT

*"**OpenStreetMap** is an initiative to create and provide free geographic data, such as street maps, to anyone. The OpenStreetMap Foundation is an international not-for-profit organization supporting, but not controlling, the OpenStreetMap Project. It is dedicated to encouraging the growth, development and distribution of free geospatial data and to providing geospatial data for anyone to use and share."*

http://wiki.osmfoundation.org/wiki/Main_Page

Mapping of key facilities in Kibera began in 2009 using local residents who received training and equipment provided by the OpenStreetMap Foundation.

MAP KIBERA

http://www.mapkibera.org/

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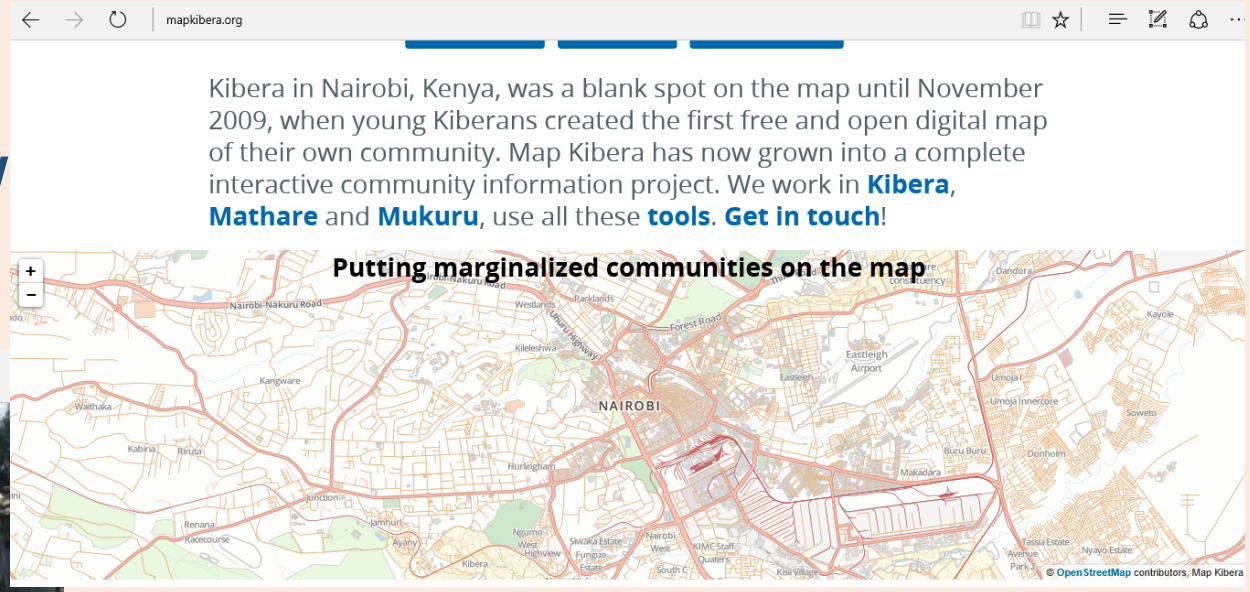
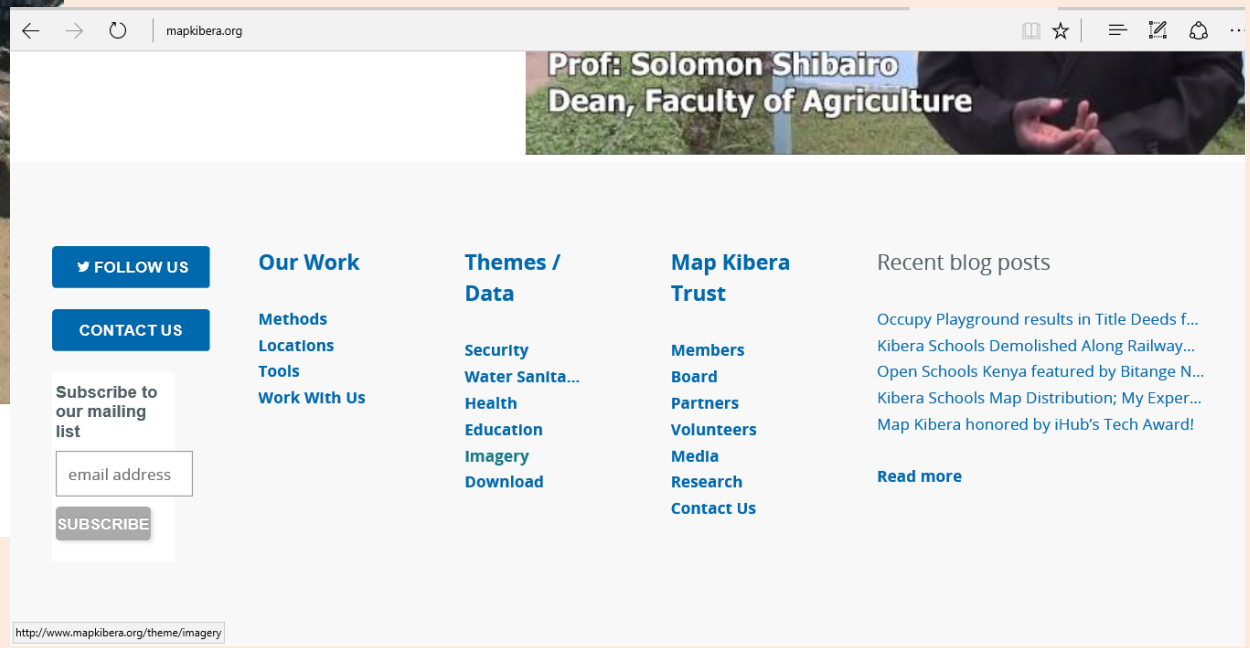
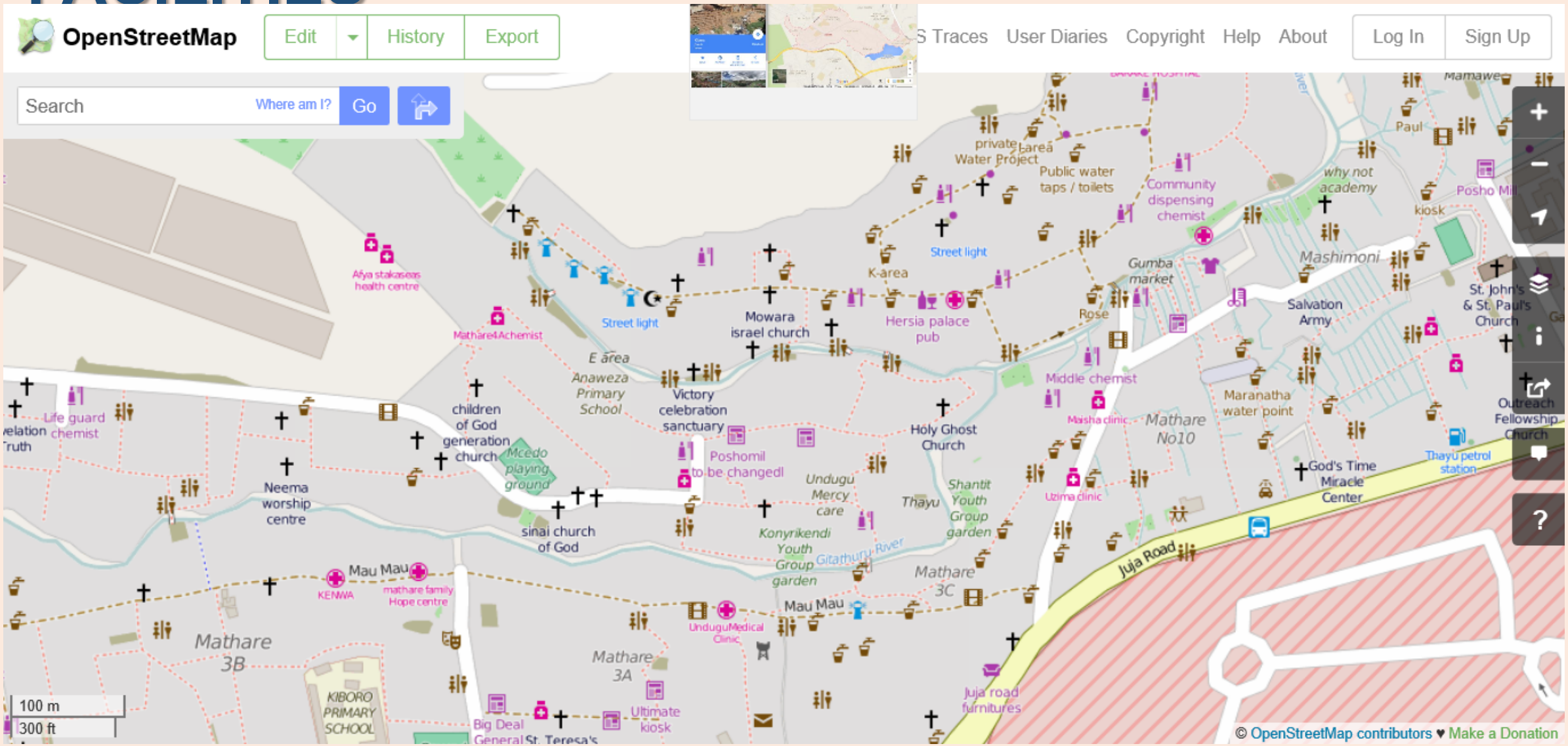




HEALTH, EDUCATION, RELIGIOUS & OTHER FACILITIES



OPENSTREETMAP

http://wiki.osmfoundation.org/wiki/Main_Page

The Foundation

- What is the Foundation
  - Frequently Asked Questions (FAQ)
  - Mission Statement
- Constitution
  - Incorporation
  - Articles of Association
- Policies and other Documents
- Finances
  - Expenditure
  - Income and Balance Sheets
  - OSMF policy on expense claims
- Annual General Meetings

OpenStreetMap Project

- The OpenStreetMap License
  - Community Guidelines
  - Takedown Procedure
  - About The 2012 License Change
- How To Get OpenStreetMap Data

You

- Membership
  - Start your membership here!
  - Statistics
  - Corporate Members
- Donate
  - PayPal
  - International Bank Transfers
  - UK Standing Orders
  - UK Electronic Funds Transfers

Foundation Bodies

- Officers & Board
  - Board Meeting Minutes
  - Board Member Bios
  - Board Rules of Order
- Management Team
- Local Chapters
  - FAQ
  - Template agreement
- Working Groups
  - Communication Working Group
  - Data Working Group
  - Licensing Working Group
  - Local Chapters Working Group
  - Operations Working Group
  - Engineering Working Group
  - StateoftheMap Organizing Committee
  - Working Group Minutes

A WIDER AFRICAN PERSPECTIVE

Africa's current population is approximately 1.2 billion. On the basis of a medium growth scenario it is expected to be about 2.5 billion people by 2050, another 1.3 billion in a mere 34 years time. It has been estimated that over the 24 year period from 2016 to 2040 about 360 million extra people would live in urban areas. By 2050 Kinshasa is expected to have a population of 33 million, while Lagos is expected to have 33 million. 50 African cities are expected to have 10 million or more people by 2050.

In Africa significantly more than half the population (61%) live in informal settlements (UN Nabitat 2013). In some African countries the proportion can be over 80%.

The rapid population growth and high rates of urbanisation in a context of limited financial and other resources suggests informal settlements could become the overwhelmingly dominant type of settlement pattern in cities and larger towns in the decades ahead.

Mapping these areas represents an absolute basic prerequisite for upgrading initiatives.

FURTHER INFORMATION

Kibera News Network- https://www.youtube.com/user/KiberaNewsNetwork

Humans of Kibera - http://humansofkibera.tumblr.com/

Open Schools Kenya- http://openschoolskenya.org/ **most recent project**

OpenStreetMap http://wiki.osmfoundation.org/wiki/Main_Page

Informal settlements
http://unhabitat.org/wp-content/uploads/2014/07/WHD-2014-Background-Paper.pdf

THANKS GUYS

Joseph and Joshua.