**MAP KIBERATRUST Paper presentation (7th Esri Eastern Africa User Conference).**

Map Kibera is a youth led organization started way back in the year 2009 with a greater objective of giving voices and visualizing blank spots on the map for informal settlements of Nairobi and the country as a whole, the trust has 3 running programs ,Voice of Kibera, Kibera News Network and mapping programs; the mapping program process started by selecting Youths from Kibera slums for trainings on GPS data collection,OSM editing, map creation and distribution of the maps for advocacy purposes, the youths have led the mapping process since then and have been able to run and implement different mapping projects to impact communities; Kibera general mapping, Kibera thematic mapping, water and sanitation,sercurity,health and education funded by UNICEF,mathare general mapping funded by Funded by PLAN International and Mukuru general mapping by UNHABITAT.
Mukuru mapping being one of the projects carried out was very participatory, consultative and community focused from OSM tool data collection, data verification, community forums and map distribution, the whole idea was to train young people in Mukuru on mapping skills and enhancement of the same for mapping continuation purposes for the betterment of marginalized communities, to get them familiarized with their local area with all facilities and to develop a Mukuru map for advocacy purposes the community forums organized by our Mukuru community coordinators brought together different people i.e. opinion leaders, local authorities, NGOs, youth activists etc.
The objectives of the community forum:
• To get the community’s general feeling of the mapping idea in the area and explaining to them what mapping is.
• -Identification and prioritizing issues and what to be mapped Selecting of young people to be trained to help carry out the process with the help of Kibera youths as trainers of trainees/facilitators, map creation in ArcGIS process.
The mapping process involves:
• -Identification of the area to be mapped
• -community engagement through forums for identification and priotization of issues or what to be mapped
• -Training of the local youths to carry out the process
• -Physical walking-Data collection by GPS devises collecting waypoints and tracks
• -Data editing using Java Open Street map editor software
• Preparation of the maps to be printed by Extraction of different layers generated as shape files and used by mappers, on a webserver, there is a process which downloads the data for the area of Mukuru from the OpenStreetMap API. It then transforms this extract using a set of ruby scripts. They’re simple scripts based on the osmic ruby library. They basically map openstreetmap tags to values in columns of the shape files. Those shape files are made available for download. And that's what you used in ArcGIS to make maps.

With combined efforts, we managed have the Mukuru general map that included social amenities, water and sanitation, security, health facilities and educational facilities etc.
This whole consultative process has benefited the community in different ways
• -Enlightened community members about their locality and facilities available in the same area
• -gained skills and enhanced their knowledge on mapping
• -Intended to be used in advocacy processes i.e. community forums with policy makers, local authority and local administration, and any other implementing bodies that are responsible for improvement and bringing .positive impact in Mukuru.

Challenges
• -The Mukuru map had lots of data and we had to try several different things in order to ensure that everything is represented on the map this resulted in creating a map of each village and theme.
• Security issues, lack of security in the area.