

Open Cities Africa

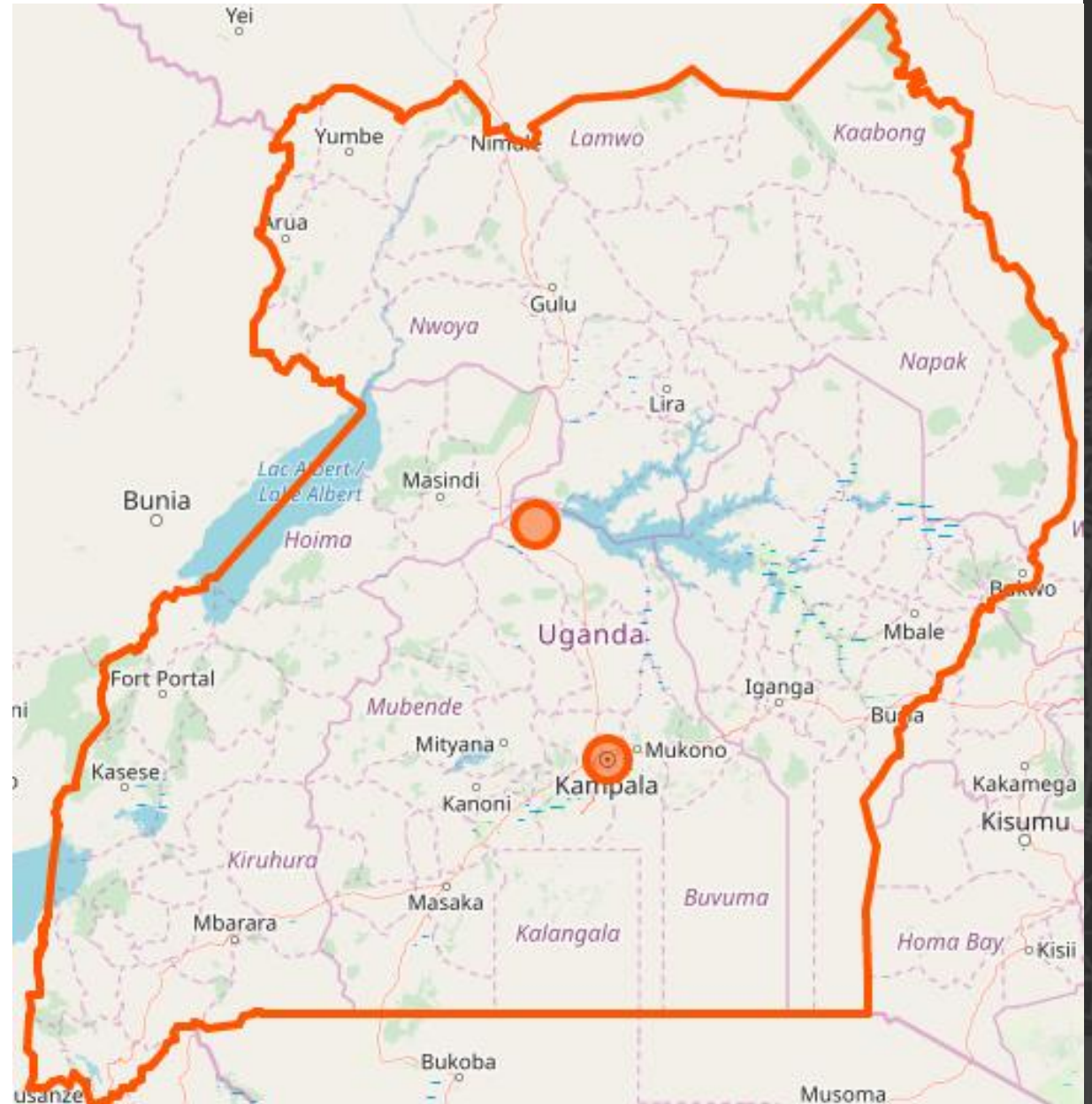
Open Mapping Program Uganda Chapter

PRESENTER: Deogratus Kiggudde

Project Manager, Humanitarian OpenStreetMap Team

Uganda Cities: Kampala

- Size: Land mass 200,523 square Kilometres
- Population: As of 2014 Census 1,503,000
- Use; Administrative, social and economic capital



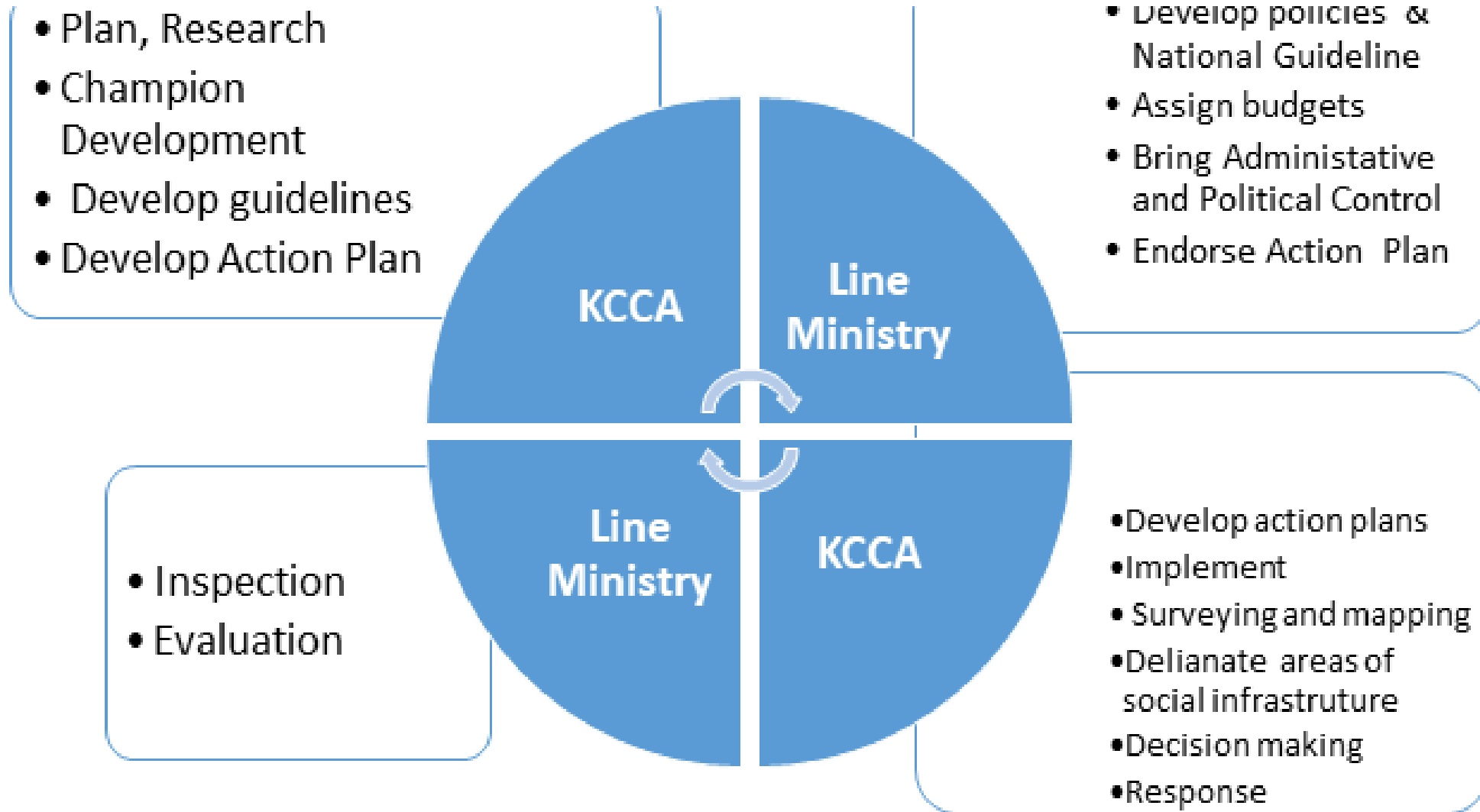
Local governance- Kampala

- **5 Administrative Divisions/ Municipalities;**
Kawempe, Nakawa, Makindye, Rubaga and Kampala Central
- **2 Branches; Technical and Political Branch**
- **Kampala Capital City Authority;** Overall
Administrative arm

Kampala City Dynamics

- **Ever increasing Population** [growth rate of 3.6% per annum, UBOS 2016 census report]
- **Land scramble and Partition** [50,000 New households annually, Ministry of Land, Housing and Urban development Abstract 2016].
- **62 Informal settlements in wetland and lowlands.** [49-64% of the population in informal settlements, KCCA statistical extra 2016]

Local Government Compliments Government

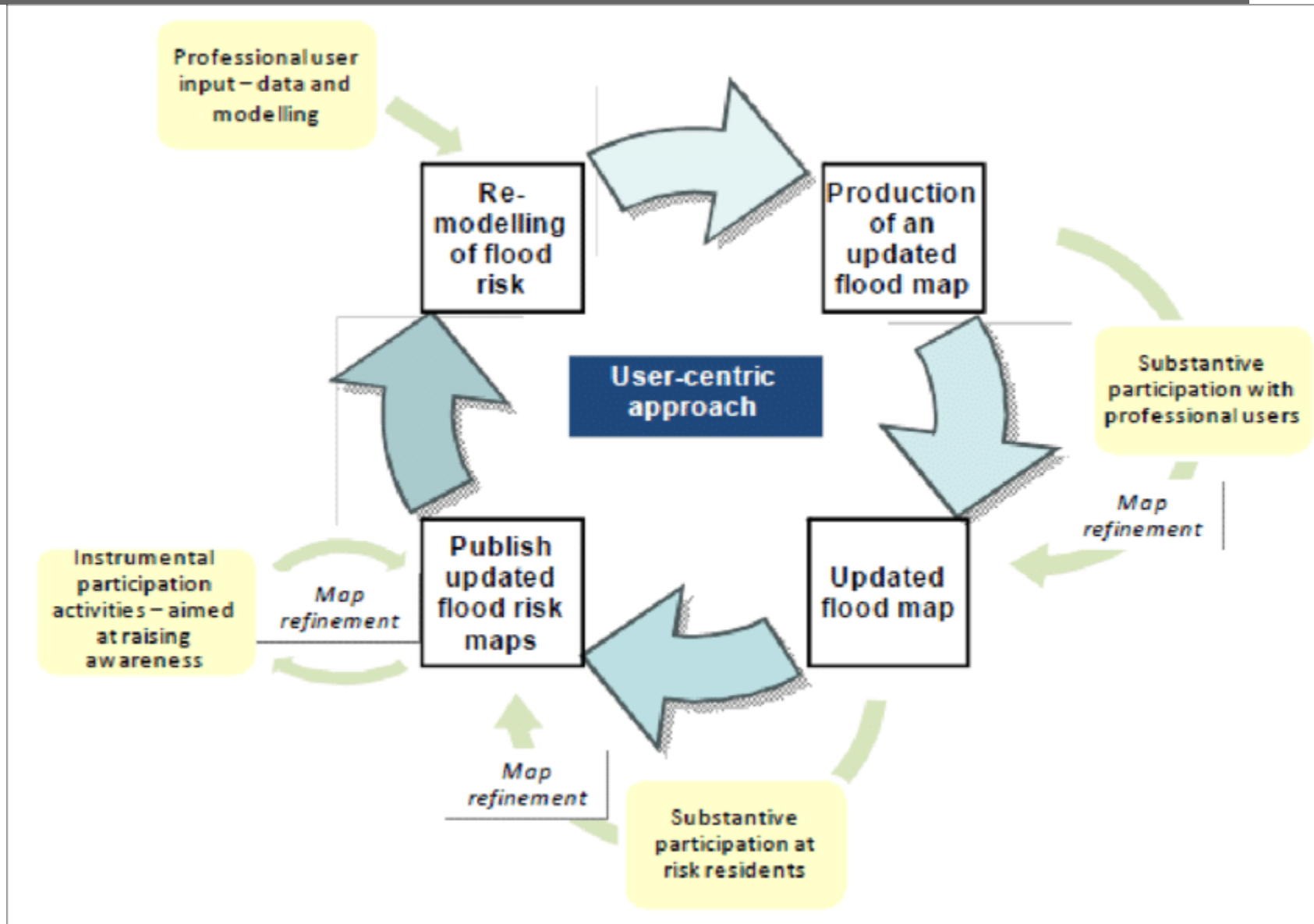


Ggaba Parish: Project AOI

- Population- 24,408
- Flooding season- Sept-Nov
- Major Economic Activity;
 - Fishing
 - Retail
 - Hospitality



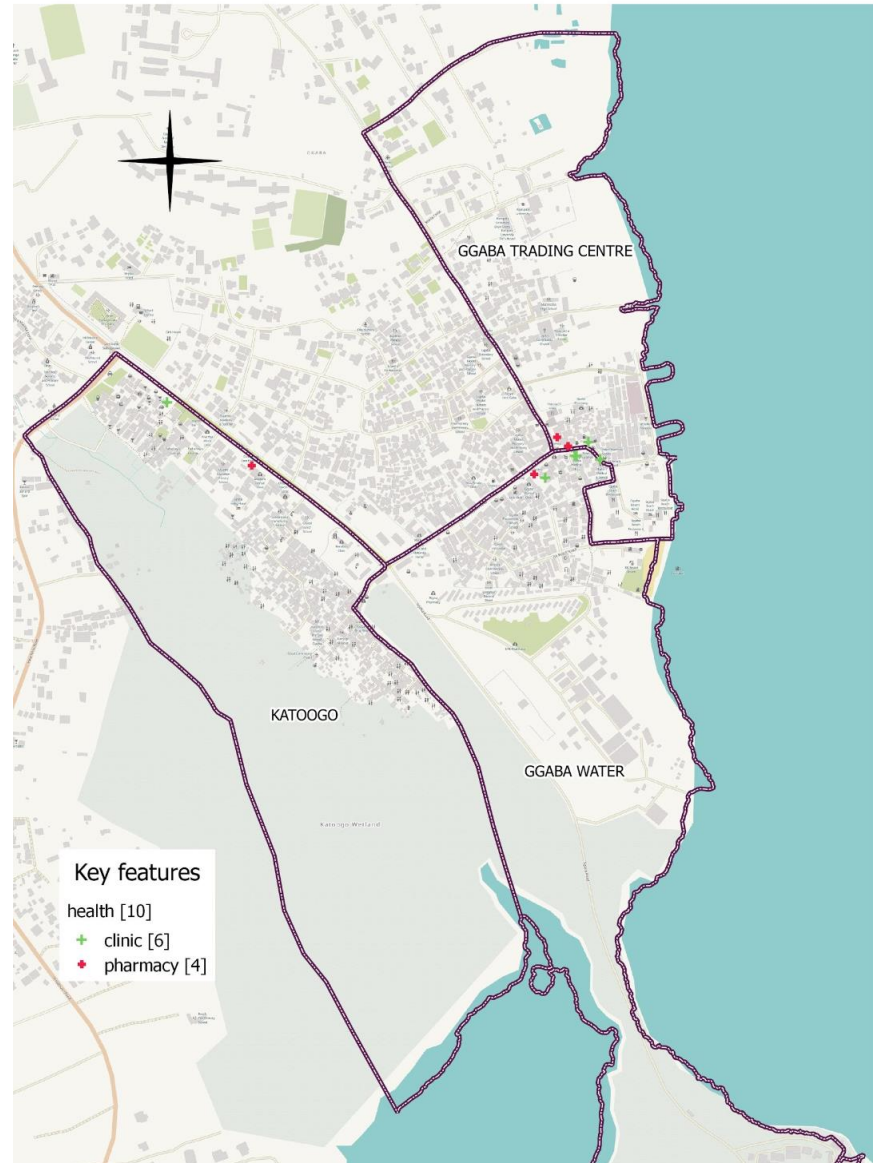
Participatory Risk Mapping Cycle



2 Timing of participatory approaches in the risk mapping cycle Source: Meyer et al. (2011, Figure 9.6)

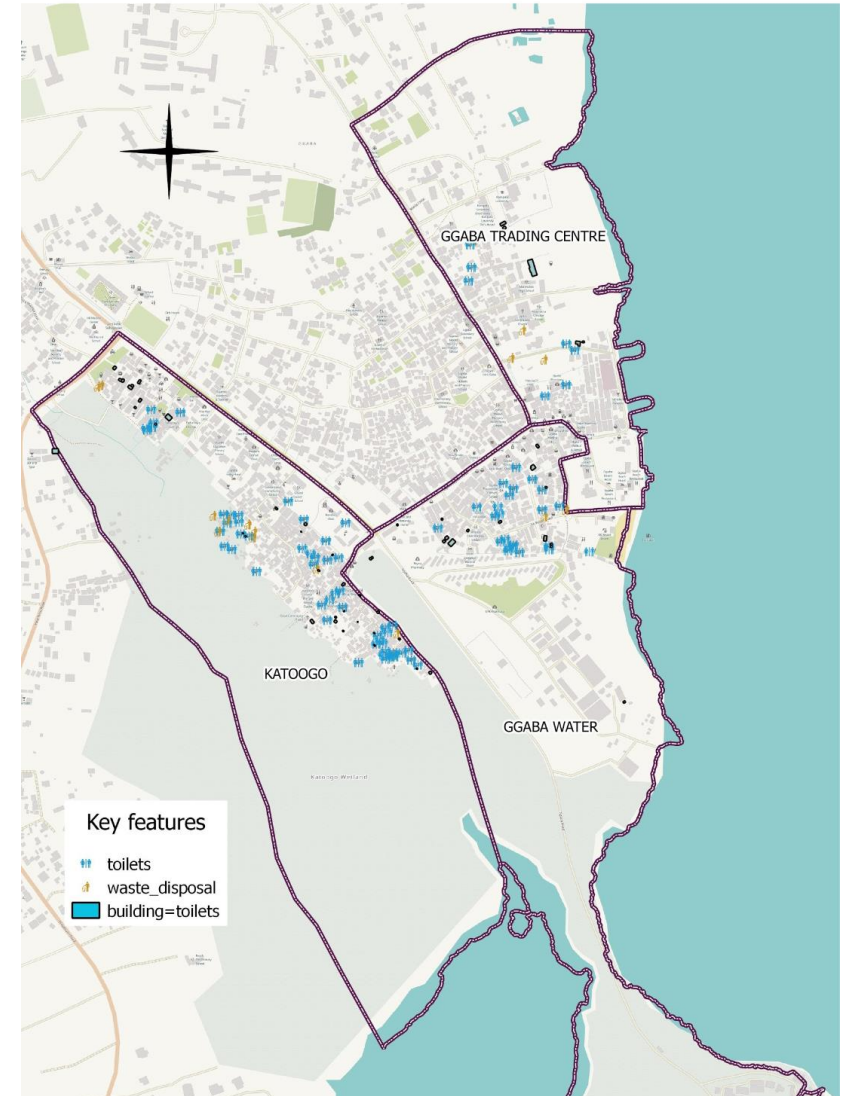
Government In the Mapping Process

HEALTH



Identifying target areas

GGABA SANITATION



Government In the Mapping Process

Creation of data model

Key	Value	Comment
waterway	drain	Drains are ubiquitous in Kampala. Challenges include placing drains correctly parallel to roads (GPS tracks tend to meander in and out of the roadway) and identifying various point features (vertical pipes/pools, connections, culverts, incoming building drains, blockages, etc.).
covered	yes	
	no	
covered:material	concrete	Concrete slab covering drain
	grating	Metal grating or grill; can be seen through but not fallen through
	metal	Solid metal covering
	wood	Wood covering over drains, often made by local residents or businesses

Government In the Mapping Process

Introduce and advocate for mapping and data collection activities in the local communities.



Government In the Mapping Process



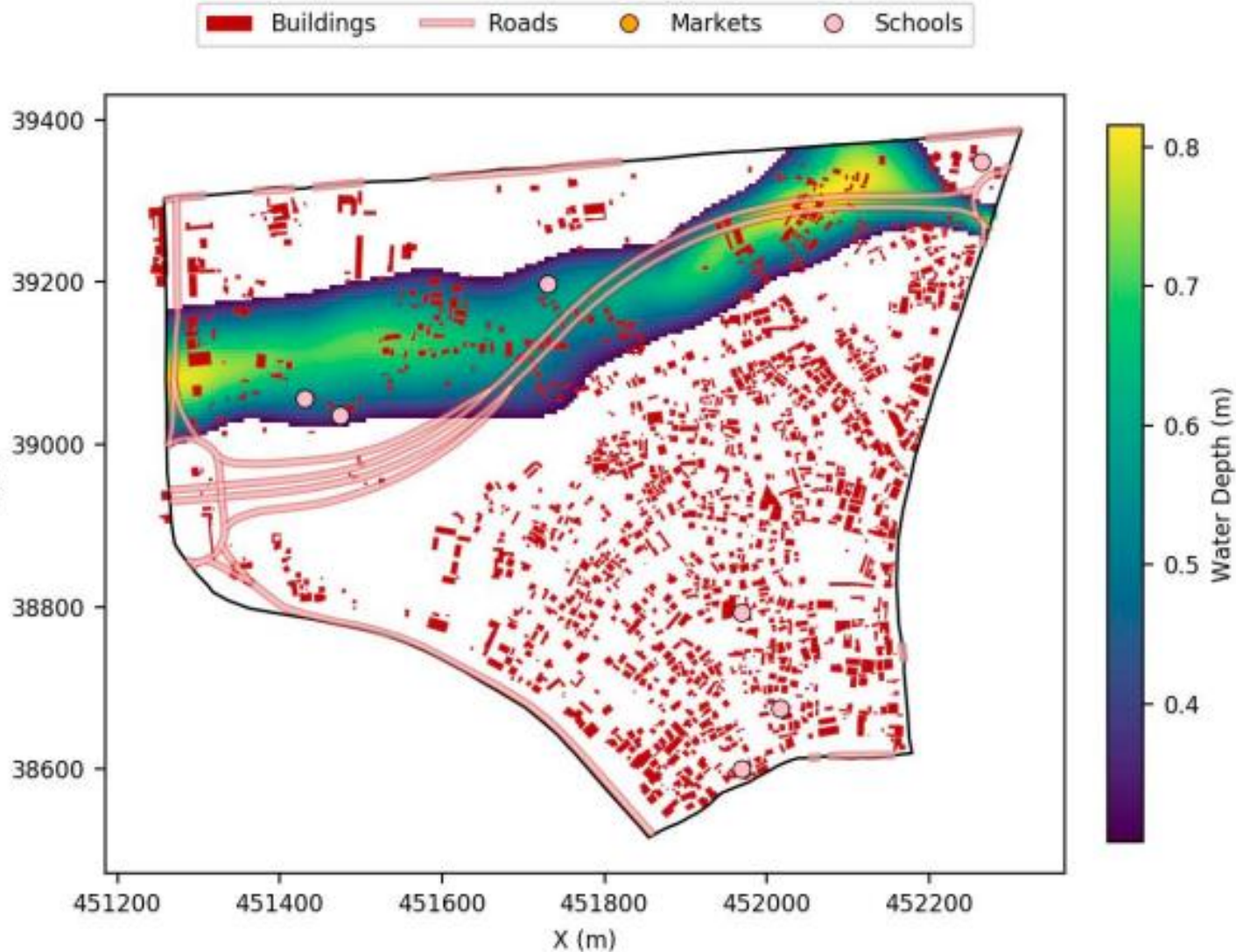
- **Regular data collecting and mapping of flood indicators.**

Government In the Mapping Process

- **Continuous learning and updating of the mapping tools and process**



Local Government Use



- More granular 2D and 3D Flood modelling

Local Government Use

- **Routine drainage clearance;**
- Real time maps will reflect through OSM uploaded by community scouts attached to KCCA



Local Government Use

- **Community engagement dropping garbage in the channel.**
- Youth mappers within the community will report incidents through OSM mapping for response to be effected



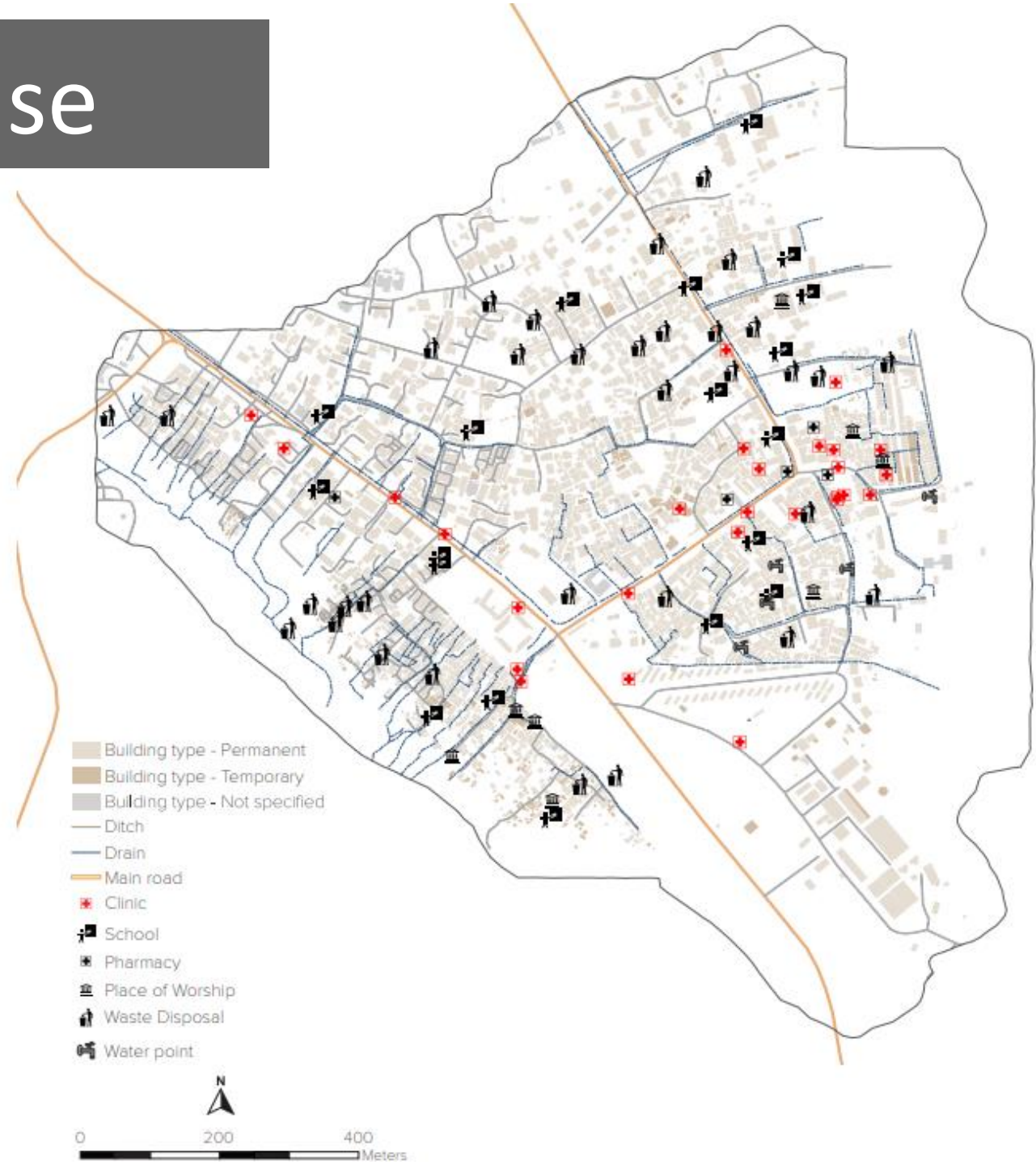
Local Government Use

- Identify Flood hotspots



Local Government Use

Identify critical community assets at risk of flooding



Local Government Use

- Identify evacuation sites and develop and contingency plan



Local Government Use

**Identifying
households
at Risk**



Merci Beaucoup