



# Need for location based data (spatial data)

There existed no detailed maps or location based data for the Agbogbloshie Slum area. This was a hindrance in developing and implementing support schemes and further in evaluation of work done

### Aims

To better manage SISS' resources via location based knowledge and carry out estimations and projections To understand underlining trends that are prevalent to the urban slum

## GIS as a solution model

#### **Objectives**

- To spatially reference facilities and other point of interest within and near the urban slum (Agbobloshie)
- To link past, present and future activities, understand and better plan future activities.
- To affirm assumptions made during planning of previous projects
- To create a system that can integrate data from diverse sources (aerial images, GPS location data, pictures, files, documents, Excel etc. etc.) and create up-to-date dynamic maps and assist staff in generating reports that will facilitate intervention, planning and implementation
- To compare actual (on the ground) demographics to estimates provided by government and private agencies\*
- To create spatial queries on population, proximity, density, housing schemes and sleeping patterns \*

# WORK FLOW

A. Data collection: youth in the slum where trained to use hand held GPS units to collect spatial data



# **GIS Urban Slum Mapping**

#### **B.** Data entry: youth dwelling in the slum where trained to enter data



**C.** Data processing: data was structured with ArcGIS and published to **ESRI's ArcReader Application** 



## **Current Studies Aided By GIS System (2010)**

- HIV studies
- Evacuation & disaster management studies
- Demographic and sleeping patterns



• Slum dweller need assessment

## **D.** Sample outputs







## **Future Plans**

- enable online access to live data via Web mapping
- it the most
- carry out dweller migration analysis and determine underlying trends





• use GIS to create weighted models to automate the need index determination of dwellers in the slum. The aim is to provide skills training and loans to those who need