Possible sources of data:

* Open buildings
* Open street maps
* UBOS/census data
* WorldPop
* Solar radiation data
* [Land cover maps](https://www.arcgis.com/home/item.html?id=d6642f8a4f6d4685a24ae2dc0c73d4ac) (ESRI)
* Locations of parishes/sub counties
* Night-time lights data (to assess current electricity use?)
* Derivative data (economic activity proxy score)
* [Energy-gis data](https://www.energy-gis.ug/gis-data) (alot of shapefiles for energy in Uganda)

(from proposal)

**Data on the extent of existing electrification (including alternative micro-grids)**:

* Nighttime lights
* Data from UMEME

**Evidence of value chains, economic opportunity**:

* Household survey data (UBOS)
* OpenStreetMap roads and points-of-interest data.
* Sizes of buildings in Open Buildings, useful to categorise settlement types and identify commercial premises.
* Agricultural usage/productivity data, e.g. land cover maps.
* Global Solar Atlas (including photovoltaic electricity output and irradiation).

**Data on the presence of settlements**:

* Open Buildings[[1]](#footnote-0): an open-access dataset, released in July 2021, which contains the locations and outlines of buildings across Africa, including approximately 15 million buildings in Uganda. Note also that the lead of Open Buildings (Quinn) is *Expert 1: Senior Developer Machine Learning and Deep Learning* in our team.
* WorldPop: gridded population density.

Economic activities

* CDR data
* Mobile money data
* Masts for telecom companies

1. <https://sites.research.google/open-buildings/> [↑](#footnote-ref-0)