Pre-Code set up:

* Create folders following the same hierarchy than previous countries. See example [here](https://worldbankgroup-my.sharepoint.com/personal/sburi_ifc_org/_layouts/15/onedrive.aspx?FolderCTID=0x012000413102371E184B4A81A450B0B0559DCE&id=%2Fpersonal%2Fsburi%5Fifc%5Forg%2FDocuments%2FFIG%20SSA%20MEL%2FMEL%20Program%20Operations%2FProjects%2FCity%20Block%20Level%20Geospatial%20Tool)

Downloading data: data sources are in this [example](https://worldbankgroup-my.sharepoint.com/:x:/r/personal/sburi_ifc_org/_layouts/15/Doc.aspx?sourcedoc=%7B3B9AB870-2ECC-4B0B-A357-4508B4C85C9F%7D&file=Data_Sources.xlsx&action=default&mobileredirect=true)

* Population:

1. Population Count

* <https://hub.worldpop.org/project/categories?id=3> DATA/POPULATION COUNTS/Constrained individual countries 2000-2020/Search Country/Download entire dataset
* Save in the correspondent folder Country/2 Raw Data/Population/Count
* This file is a .tif

1. Population AgeSex

* <https://hub.worldpop.org/project/categories?id=8> DATA/AGE AND SEX STRUCTURE/Constrained individual countries 2020/Search Country/Download one by one all the datasets for female and male from 0 to 80
* Save in the correspondent folder Country/2 Raw Data/Population/AgeSex
* GDP:

Copy and paste all the datasets from [here](https://worldbankgroup-my.sharepoint.com/personal/sburi_ifc_org/_layouts/15/onedrive.aspx?FolderCTID=0x012000413102371E184B4A81A450B0B0559DCE&id=%2Fpersonal%2Fsburi%5Fifc%5Forg%2FDocuments%2FFIG%20SSA%20MEL%2FMEL%20Program%20Operations%2FProjects%2FCity%20Block%20Level%20Geospatial%20Tool%2FGhana%5FApril%5F05%5F2022%2F2%20Raw%20Data%2FGDP%5FHDI) and store it in the folder Country/2 Raw Data/GDP\_HDI. GDP data is only one dataset for all countries. No further process needed.

* Nigh light data:
* <https://hub.worldpop.org/project/categories?id=14> DATA/COVARIATES/Resampled VIIRS night-time lights 2012-2016
* Download all .tif and store them in the Country/2 Raw Data/Nighttime\_Lights
* Administrative Boundaries
* Search country here <https://data.humdata.org/dataset/cod-ab-gha>
* Adm level 0 is enough
* Look at the data source [file](https://worldbankgroup-my.sharepoint.com/:x:/r/personal/sburi_ifc_org/_layouts/15/Doc.aspx?sourcedoc=%7B3B9AB870-2ECC-4B0B-A357-4508B4C85C9F%7D&file=Data_Sources.xlsx&action=default&mobileredirect=true) for other required data in some examples (banks and ATMs, pharmacies, etc)
* If the code is not health related, use the short code example XXX that drops the codes of block using health facilities, birth or deaths.
* If the code running is HEALTH related:
* Deaths
* Search <https://vizhub.healthdata.org/gbd-results/> Location=Country. Check measure,metric and age/sex from the examples. They have to have the same age ranges (equally named) as the AgeSex data from the Population AgeSex dataset. It is easier to download the age ranges from the web and then edit the labels in excel.
* It has to look like these ones [example](https://worldbankgroup-my.sharepoint.com/personal/sburi_ifc_org/_layouts/15/onedrive.aspx?FolderCTID=0x012000413102371E184B4A81A450B0B0559DCE&id=%2Fpersonal%2Fsburi%5Fifc%5Forg%2FDocuments%2FFIG%20SSA%20MEL%2FMEL%20Program%20Operations%2FProjects%2FCity%20Block%20Level%20Geospatial%20Tool%2FUzbekistan%5FApril%5F13%5F2022%2F2%20Raw%20Data%2FDeath)
* Births
* <https://hub.worldpop.org/project/categories?id=5> DATA/ BIRTHS/Individual countries/Search country
* Download data and save it to the Country/2 Raw Data/Brith
* Health facilities
* Public: create account in health sites <https://healthsites.io/map?country=Ghana>
* Private: same source than public. It might need some pre-processing or converting after download.
* It could also be this source <https://data.humdata.org/dataset/health-facilities-in-sub-saharan-africa> for SSA countries

Code:

* Open Anaconda.
* Change environment to geo-env
* Launch JupyterLab. Open the code (there are 2 code examples, one full example with health related blocks and one “short” code with no health related blocks, i.e. no birth, death, facilities)
* Change directories and path as needed.