Countries to include, in order of priority:

1. Ghana – done!
2. Niger – partially done
3. Nigeria- partially done (script 1 & script 2)
4. Kenya
5. Rwanda- partially done (script 1 & script 2)
6. Liberia- partially done (script 1 & script 2)
7. Madagascar- partially done (script 1 & script 2)
8. Mali
9. Tanzania- partially done (script 1 & script 2)
10. Senegal- partially done (script 1 & script 2)
11. Ethiopia- - partially done (script 1 & script 2)
12. Mozambique- partially done (script 1 & script 2)
13. South Sudan- partially done (script 1 & script 2)
14. Democratic Republic of Congo
15. Cambodia
16. Indonesia
17. Nepal
18. Create file tree folders
    * country code - [IBAN](https://www.iban.com/country-codes)
      1. class
      2. comms
      3. country
      4. dist
      5. distroads
      6. disttowns
      7. pop
      8. roads
      9. timecities
19. Download:
    * Country shapefiles – [DIVA\_GIS](https://www.diva-gis.org/gdata)
      1. Country level (adm0) -> country folder
      2. Smallest level (adm3) -> dist folder
         + Countries with >3 layers: Kenya, Madagascar, Mali, Senegal, Rwanda.
    * Population data (constrained 2020) – [WorldPop](https://www.worldpop.org/geodata/listing?id=78) -> pop folder
    * Roads data – [Humanitarian Data Exchange](https://data.humdata.org/) -> roads folder
      1. Search country name + roads, select the dataset from Open Street Maps Humanitarian Team (HOTOSM)
      2. Download the lines\_shp.zip folder
    * Settlements data – [GRID3](https://grid3.org/resources/data) -> comms folder
      1. Click “settlements” tab, locate country and download “settlements extent”
      2. Rename the GDB folder to be “countrycode\_GRID3.gdb”
20. Place datasets in the file tree
21. Create a zipped folder for the country level shapefile files, rename as “countrycode\_adm0”, keep in country folder.
22. Run Script 1 in QGIS
    * *“native:zonalstatistics”* command produced error “*zonalstatistics not found*”, changed it to *“qgis:zonalstatistics”*  and it worked.
23. Run Script 2 in QGIS
    * Make sure class layer has exactly 1-4 categories
24. Run Script 3 for pixel level in Python
    * Plot in QGIS – ensure accuracy
25. Run Script 3 for boundary level in Python
    * Plot in QGIS – ensure accuracy
26. ~~Push to GitHub~~