HARSHVARDHAN FOR ASAR

RASTER BASED POPULATION

AIM IS TO HAVE A SHINY APP THAT CREATES SPREADSHEET WITH STATE OR DISTRICT LEVEL AGGREGATED DATA

▸ Original raster to be aggregated is population from Worldpop (https://www.worldpop.org/geodata/listing?id=75)

▸ Partitioning raster could be: Urban-rural classification, Time-to-healthcare unit, etc.

▸ Level of partitioning will be decided by the user of app in the runtime

THE CURRENT SHINY APP WORKS FOR URBAN–RURAL PARTITION FOR MORE THAN 200 COUNTRIES

▸ However, there are several limitations:

  ▸ The app is as slow as snail 🐌

  ▸ It only works for year 2020 📅

▸ Work needed:

  ▸ Improving runtime speed (AWS hosting? Already have files downloaded?)

  ▸ Redesign the app with partitioning raster instead of country as focus

Raster-based Cropping   India - URCA   Any Country - Population   FAQ   India - Any Raster   Any Country - Any Raster

Any Country: Urban-Rural Raster Population

Select country or location

Afghanistan   ▾

Region divider number:

1   7   29
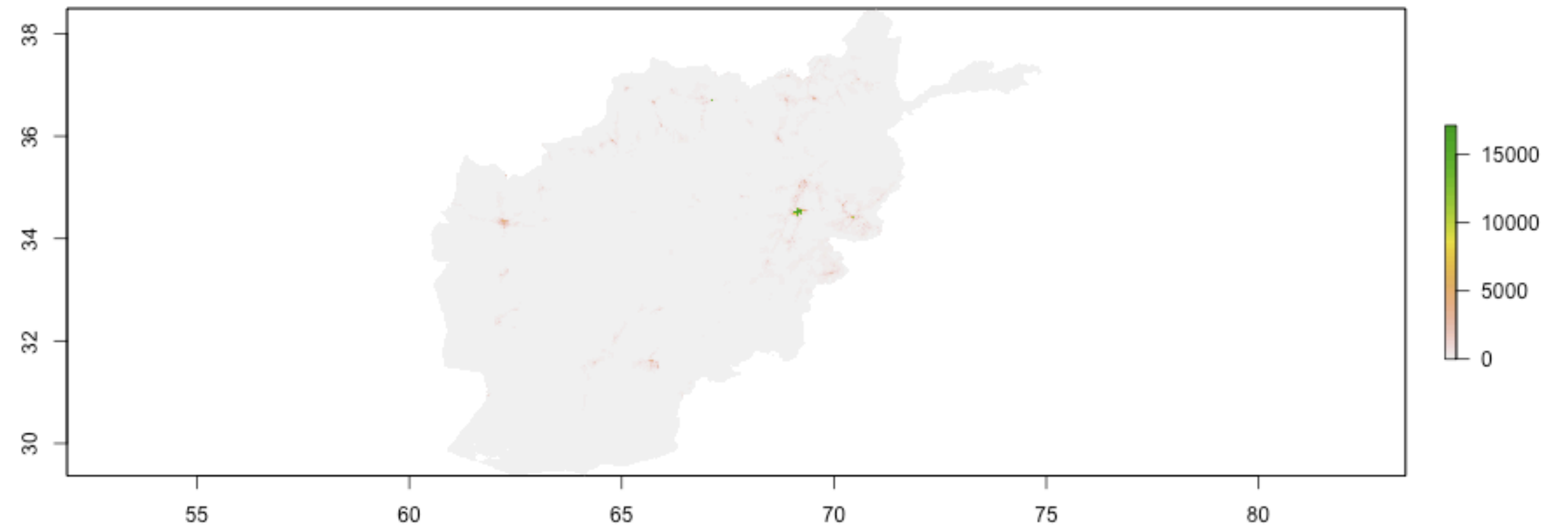
1   4   7   10   13   16   19   22   25   28 29

⟳ Run now

Click the button in main panel to download the file you want. Running the code takes 2-3 minutes.

⬇ Download State-level Rural Population   ⬇ Download State-level Urban Population   ⬇ Download District-level Rural Population

⬇ Download District-level Urban Population

Choose the divider value. Using "Run now" button inhibits dynamic execution of app in the hope to speed up the analysis.

The files to download will be ready here. It takes around 2-3 minutes to have them ready. When using it for a country for first time, it will take 6-7 minutes depending on country size as it downloads the population data for the first time.