

Two days hands-on workshop

‘Use of Gridded Population Data’

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Place of training:

International Institute for Population Sciences (IIPS), Mumbai, India

Organized by:

International Institute for Population Sciences (IIPS), Mumbai, India

The Gender Project, IIPS

French Institute for Demographic Studies (INED), France

Training background

Data availability and reliability are fundamental concerns for demographic research. Conventional demographic data sources such as population censuses and surveys exist with the critical limitations of temporal scale (estimated at 5 or 10 years intervals) as well as with difficulties of geographical coverage (inaccurate or no data for difficult regions, local representativeness). Thus, there is a strong need for timely and complete population data, particularly in developing countries. India is the second most populous country in the World, covers a huge geographical area, and its population census is decadal. Therefore, India needs an alternative source of demographic data which can provide timely population estimates.

Timely gridded population data provide estimates of population counts, density, and age-sex structures. These estimates can be processed at various spatial scales (Country, States, District, etc.).

In this hands-on training session, the participants will learn about gridded population data sources, their processing, and extraction. The hands-on sessions will be based on Indian administrative levels (national, state, and district).

Program outline

Day 1: 6 Sept 2022

Part 1: Overview of gridded population data (2 pm - 3.30 pm)

- Overview
- Need
- Merits and limitations

Break

Part 2: Retrieving gridded population data (4 pm to 5.30 pm)

- Techniques of estimation
- Various sources and components of data
- Downloading steps

Day 2: 7 Sept 2022

Part 1: Processing gridded population data (2 pm - 3.30 pm)

- Opening gridded data in GIS environment (ArcGIS)
- Reading data
- Geo-processing at desired administrative levels

Break

Part 2: Extraction of gridded population data (4 pm to 5.30 pm)

- Raster calculations
- Exporting data in desired format

Participants requirement:

- Masters/Ph.D./post-docs/faculties with mapping skills in QGIS can join this training.
- The ideal number of participants: 20-40

Outcomes: With the completion of this training, the participants will be able to retrieve, process, and extract gridded demographic data under the GIS environment.