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## **Global Population Data**

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**Abstract**

Detailed subnational demographic data that are comparable internationally are key for supporting development and humanitarian applications. Monitoring the implementation of the Sustainable Development Goals (SDGs) requires global data that are disaggregated by characteristics including gender, age, and geographic location. Demographic processes (mortality, fertility, migration) vary by age and sex. Social and economic relationships, the degree of vulnerability to hazards and risks such as climate change, earthquakes, and infectious diseases are all influenced by the spatial distribution of a population's age and sex structure.

The Gridded Population of the World (GPW) provides detailed subnational population estimates based on census data from over 241 countries and states from the 2010 round of censuses that have been transformed to a raster data structure suitable for use in Geographic Information Systems (GIS) for analysis using any geographic unit, such as land cover categories, natural hazard risk, or proximity to features such as coastlines and water bodies. The census data collection used as input for GPW is comprised of over 14 million individual units. Version 4.1 of GPW has been extended to include age structure in five-year intervals and gender for both the total population and age groups.

With this updated release, rapid assessments of population based on any geography are possible for population totals and population by age and gender. Internationally comparable measures based on basic demographics, such as the total dependency ratio, can be calculated and used in analysis and strategic planning of development activities. This presentation will focus on the methods used to integrate and transform the demographic data and examples of regional differences in age and gender highlighted by the final product.