

#### **ARSET**

**Applied Remote Sensing Training** 

http://arset.gsfc.nasa.gov



@NASAARSET

## Overview and Access of Socioeconomic Data

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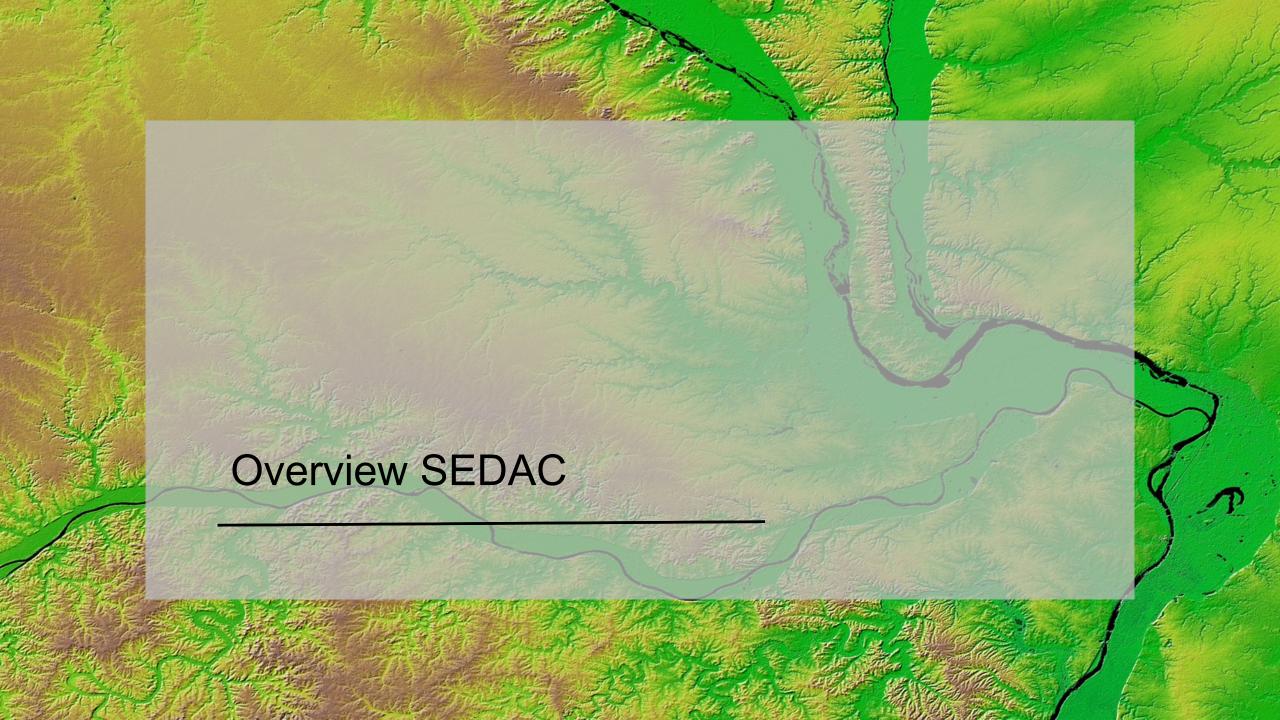
# Learning Objective

By the end of this presentation, you will be able to:

- Retrieve socioeconomic data
- Evaluate and apply socioeconomic data useful for assessing flood risk and relief planning

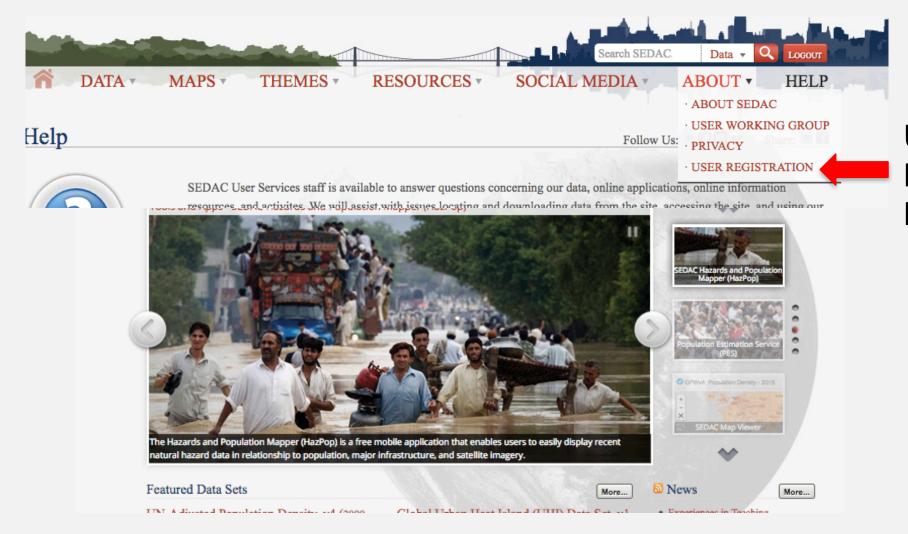
### Outline

- Overview of NASA Socioeconomic Data and Application Center (SEDAC)
- Demonstration of data access from SEDAC



## Socioeconomic Data and Applications Center (SEDAC)

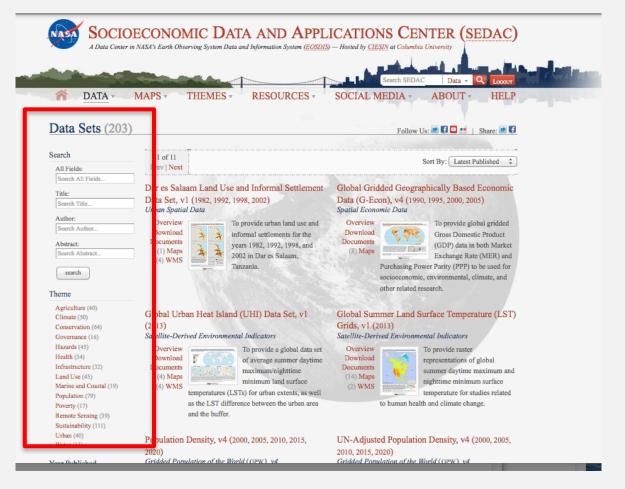
http://sedac.ciesin.columbia.edu/



User Registration Required

# Socioeconomic Data and Applications Center (SEDAC)

http://sedac.ciesin.columbia.edu/

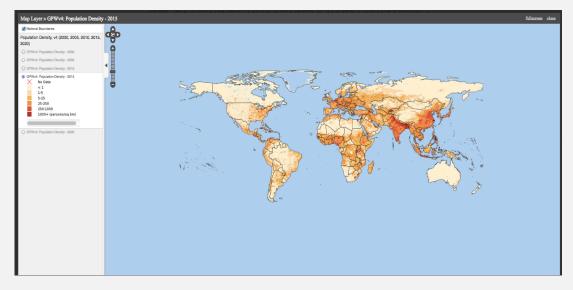


- There are 203 datasets from 16 thematic areas
- Information and documents about the datasets are available online
- Multiple options for data formats and downloads
- Interactive mapping and visualization possible

## SEDAC: Global Population Density

http://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-density

## **Global Population Density**



- Socioeconomic data is available that can be used along with flood monitoring tools to facilitate flood management and impact assessment activities
- Example:
  - Global and Urban Areas
  - Population Density
  - Global Roads and Dams
  - Nuclear Power Plant Locations
  - Population Exposure Estimates in Proximity to Nuclear Power Plants

## SEDAC: Global Population Density Data Download

http://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-density



- Click to download
- Multiple formats available:
  - GeoTIFF
  - PDF
  - Microsoft Excel file

     (.xlsx) with country level information and sources
  - Text file (.txt) with a log of changes to the dataset by version

### SEDAC Global Roads

http://sedac.ciesin.columbia.edu/data/set/groads-global-roads-open-access-v1/data-download

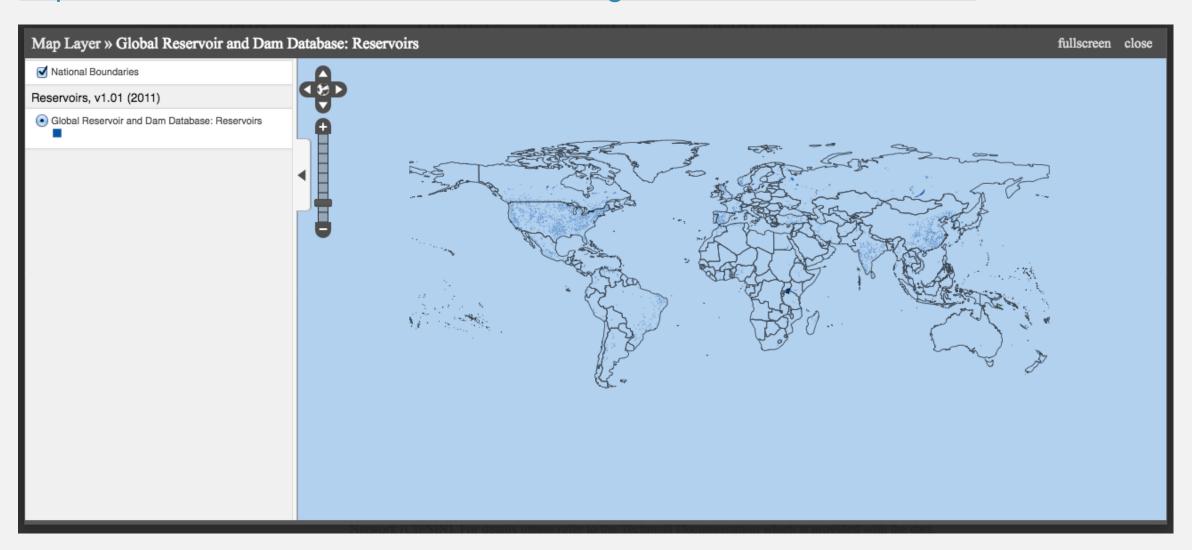


#### **Data Download**

Global	Geodatabase (196 MB)	
Africa	Geodatabase (91.9 MB)	Shapefile (206 MB)
Asia	Geodatabase (86.7 MB)	Shapefile (194 MB)
Europe	Geodatabase (53.9 MB)	Shapefile (81.9 MB)
Americas	Geodatabase (48.1 MB)	Shapefile (62 MB)
Oceania East	Geodatabase (9.5 MB)	Shapefile (13.6 MB)
Oceania West	Geodatabase (425 KB)	Shapefile (420 KB)

### SEDAC: Global Reservoir and Dam

http://sedac.ciesin.columbia.edu/data/set/grand-v1-reservoirs-rev01



### SEDAC: Nuclear Power Plant Locations

http://sedac.ciesin.columbia.edu/data/set/energy-pop-exposure-nuclear-plants-locations

