National Aeronautics and
Space Administration

Earth Observations Toolkit for Sustainable Cities and Human Settlements

Thursdays, January 27, February 3 & 10, 2022

English Session: 10:00 - 11:30 EST (UTC-5)

Spanish Session: 13:00 - 14:30 EST (UTC-5)

This 3-part, introductory webinar series will provide an overview of the Earth Observations Toolkit for Sustainable Cities and Human Settlements, an online knowledge resource that shares ready-to-use Earth observation data sets and tools. These resources can be applied in policy areas that are important to resilient and sustainable cities. Such areas include sustainable urban planning, adequate housing, access to public transport, and access to public spaces. The Toolkit also shares national and city experiences in using spatial data and analysis for monitoring progress towards the Sustainable Development Goals and the New Urban Agenda, and enabling successful, evidence-based decision making.

Part 1: Intro to the EO Toolkit for Sustainable Cities and Human Settlements

- Overview of SDG 11 and the New Urban Agenda.
- Background and introduction to the main components of the Earth Observations Toolkit for Sustainable Cities and Human Settlements.
- The role of Earth observations in monitoring and informing cities', and other types of human settlements', operations and planning.

Part 2: Applications of the EO Toolkit to Measure and Analyze Sustainable Development Goals

- Degree of Urbanization Tools and SDG 11 Indicators.
- Demonstration of POPGRID Website and Viewer.
- Evaluating the accuracy of gridded population data sets for SDG 11.1.1 (adequate housing).
- Demonstration of POPGRID for dataset comparison for SDG 11.5.1 (people directly affected by disasters).

Part 3: Use Cases from the National and City Level

- Leveraging Earth observations to calculate SDG indicator 11.3.1 (sustainable urbanization) for South African cities.
- Integrating statistical and Earth observation data to produce SDG indicator 11.7.1 (open spaces for public use) in Colombia.
- Introducing an online platform for monitoring SDG indicator 11.6.2 (mean annual levels of fine particulate matter in cities, population weighted) in Europe, leveraging Earth observations.

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