KNOWLEDGE FOR PROSPERITY

Ministry of Cabinet Affairs
THE SDGS GEOSPATIAL ROADMAP

UAE Federal Competitiveness and Statistics Centre (FCSC) Intervention at:

“Launch of the Earth Observation Toolkit for Sustainable Cities” Panel
The implementation of the SDGs are a cross sector collaboration, which includes the public and private sectors, civil society, and international organizations.

- International partnerships to accelerate SDG implementation
- National Committee on SDGs – 16 Federal Government Entities
- Private Sector Advisory Council on SDGs – 14 Private Sector entities
- Youth Advisory Council on SDGs – 12 youth members
- Outreach and engagements with Academia
- Whole-of-society engagements projects to ensure inclusivity

Visit UAE SDG Data Hub: [https://sdgsuae-fcsa.opendata.arcgis.com/](https://sdgsuae-fcsa.opendata.arcgis.com/)
The UAE has addressed multiple SDG indicators, through Earth Observations.

**Workflow of built-up area extraction**

1. Prepare imagery (stacking & mosaicking)
2. Apply unsupervised classification
3. Aggregate polygons at the same area
4. Conduct Visual check
5. Verify results with Global Human Settlement Layer (GHSL)
6. Repeat workflow for different years from 1972 till 2020

**Indicator 11.3.1:** Ratio of land consumption rate to population growth rate
Data Inputs:
1. Population Growth Rate
2. Land Consumption Rate from Landsat, Sentinel & EPOC imagery

**Indicator 9.1.1:** Proportion of the rural population who live within 2 km of an all-season road
Data Inputs:
- Population dataset/grid
- Built-up area dataset
- Urban Rural areas dataset
- Roads Dataset

**Indicator 15.4.2:** Mountain Green Cover Index
Data Inputs:
- Digital Elevation Model (DEM) from Shuttle Radar Topography Mission (SRTM) 30M
- Green Areas extracted from MBRSC DubaiSAT2 and Landsat imagery

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Visit UAE Urban Growth Story map on: https://eo-toolkit-guo-un-habitat.opendata.arcgis.com/