KNOWLEDGE
FOR PROSPERITY

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

United Nations | Department of Economic and Social Affairs

Earth Observations Toolkit for SUSTAINABLE CITIES AND HUMAN SETTLEMENTS

esri

The Story Behind the UAE SDG Logo

UAE's National Committee on SDGs has created a bespoke logo to represent the approach the country is taking to implement the SDGs. Inspired by the colors of the 17 SDGs, each color in the logo represents a goal and the blending of colors is intended to convey the complexity, indivisibility and crosscutting nature of the SDGs. The map of the UAE at the center of the ring of colors illustrates the fact that sustainable development is very much a way of life for the country. Furthermore, the logo for each SDG places UAE's map in the middle and gives prominence to the official color of that goal.

1

FCSC UAE | المركز الاتحادي للتنافسية والإحصاء

Visit UAE SDG Data Hub: https://sdgsuae-fcsa.opendata.arcgis.com/

The UAE has addressed multiple SDG indicators, through Earth Observations

Workflow of built-up area extraction

Prepare imagery (stacking & mosaicking)

⬇

Apply unsupervised classification

⬇

Aggregate polygons at the same area

⬇

Conduct Visual check

⬇

Verify results with Global Human Settlement Layer (GHSL)

⬇

Repeat workflow for different years from 1972 till 2020

11 SUSTAINABLE CITIES AND COMMUNITIES

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

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

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

15 LIFE ON LAND

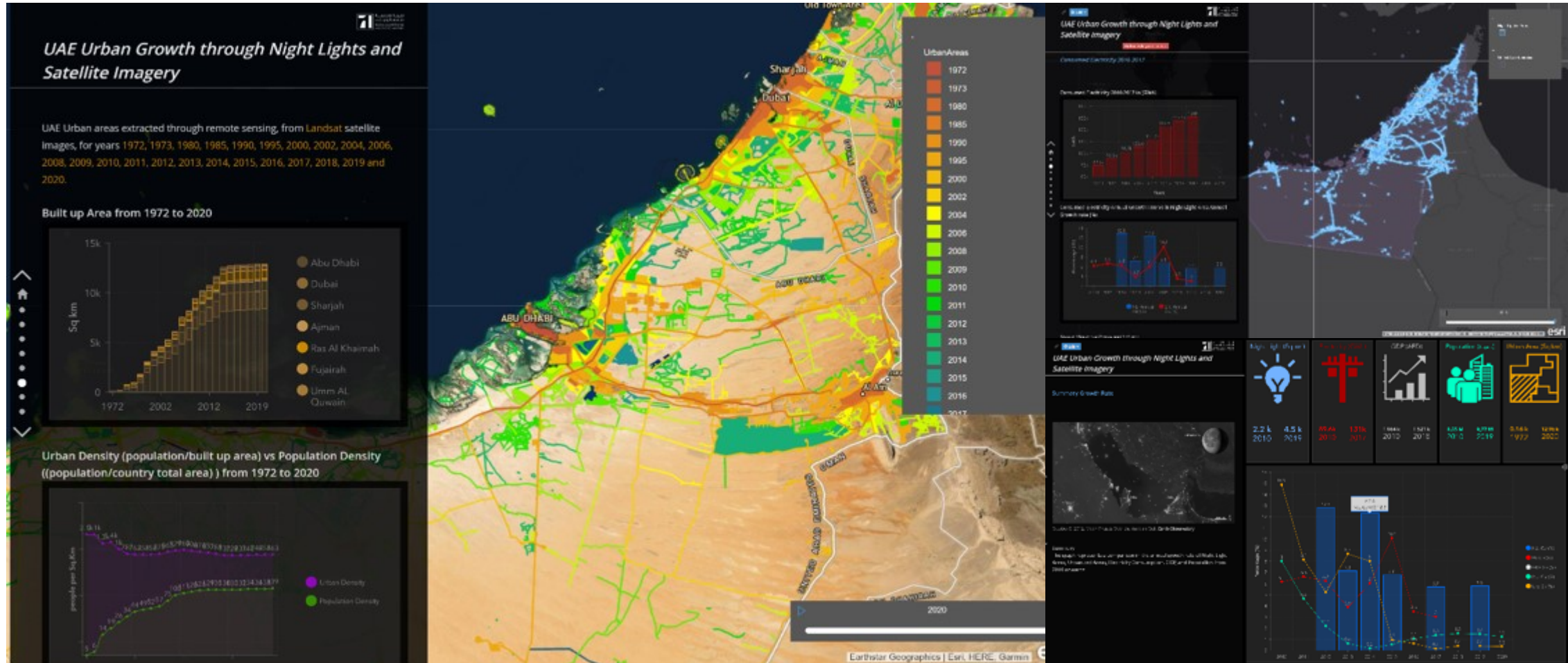**Indicator 15.4.2: Mountain Green Cover Index**
Data Inputs:
• Digital Elevation Model (DEM) from Shuttle Radar Topography Mission (SRTM) 30M
• Green Areas extracted from MBRSC DubaiSAT2 and Landsat imagery

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Mapping built-up areas from 1972-2019 and night lights from 2010-2019
Comparing growth rate of night light areas, built-up areas, electricity consumption, GDP, and population.
Using extracted built-up areas in population grid production.

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

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