

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Interactive Presentations - IAF EARTH OBSERVATION SYMPOSIUM (IP)

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GIS FOR SMART CITY MODEL

Abstract

The aim of this research is to develop a smart city model by utilizing all the available open sources data that will help to visualize real-world features, locate service areas, visualize changes, and turning raw data into actionable information that can support the decision maker. Story Maps will be used to publish and preview all the results and analysis Furthermore, different remote sensing data for Dubai city are collected in order to build a robust geodatabase for the smart city model. Additionally, using Landsat image with three multispectral bands (RGB) as well as Dubai boundary shape file. Utilizing the available information from Open Street Map (OSM) and applying different processing techniques, cleaning the data, performing the required spatial analyses. Finally, visualize the layers for transport, roads, and land use (Hospitals and education institutes) within Dubai area and publish it as Story map.