# Earth Observation data for Sustainable Development

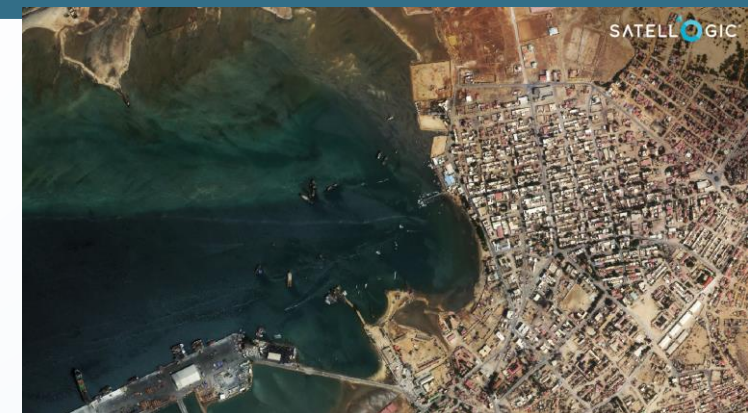**SATELL⭕GIC**

**11 SUSTAINABLE CITIES AND COMMUNITIES**

- **User:** Local governments, real estate, humanitarian aid, emergency response
- **Challenge/Needs:** Monitor human activity and rapid development to understand impact on environment, access to critical resources, emergency response planning, and opportunities for sustainable development projects
- **Initiative:** Smart city planning, urban renewal projects, humanitarian and refugee programs
- **Results:** Source to build or enhance a geospatial database for ongoing studies, long-term projects, and disaster response.

  It Takes a Global Village: Building True Digital Twins to Drive Geospatial Adoption / Improving Disaster Response with Earth Observation Data

- **Service Provider:** Satellogic

  https://satellogic.com/earth-observation/critical-infrastructure/
  https://satellogic.com/2022/09/14/true-digital-twins/
  https://satellogic.com/2022/03/29/ogc-disaster-pilot-project-21-improving-disaster-response-with-earth-observation-data/

**EARSC**
European Association of Remote Sensing Companies

- Target 11.1: By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums.
- Target 11.3: By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.
- Target 11.5: By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.
- Target 11. 7: By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities



This capture shows the deep seaport of Berbera, in Somalia. True digital twins can feature Digital Surface Models (DSM) that provide 3D shapes of structures such as warehouses or quays. True digital twins can also point out how many ships are docked on a certain date.