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Global Operational Support Team

(GOST)

WORLD BANK GROUP
Global Operational Support Team

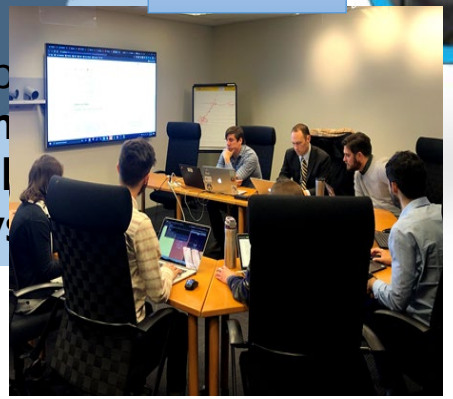
Benjamin Stewart,
bstewart@worldbank.org

Sr. Geographer
GOST Team Lead

Global Operational Support Team

Support World Bank Group op
to be **a sophisticated consun
geospatial and big data anal
cost-effective, efficient way**

Advise



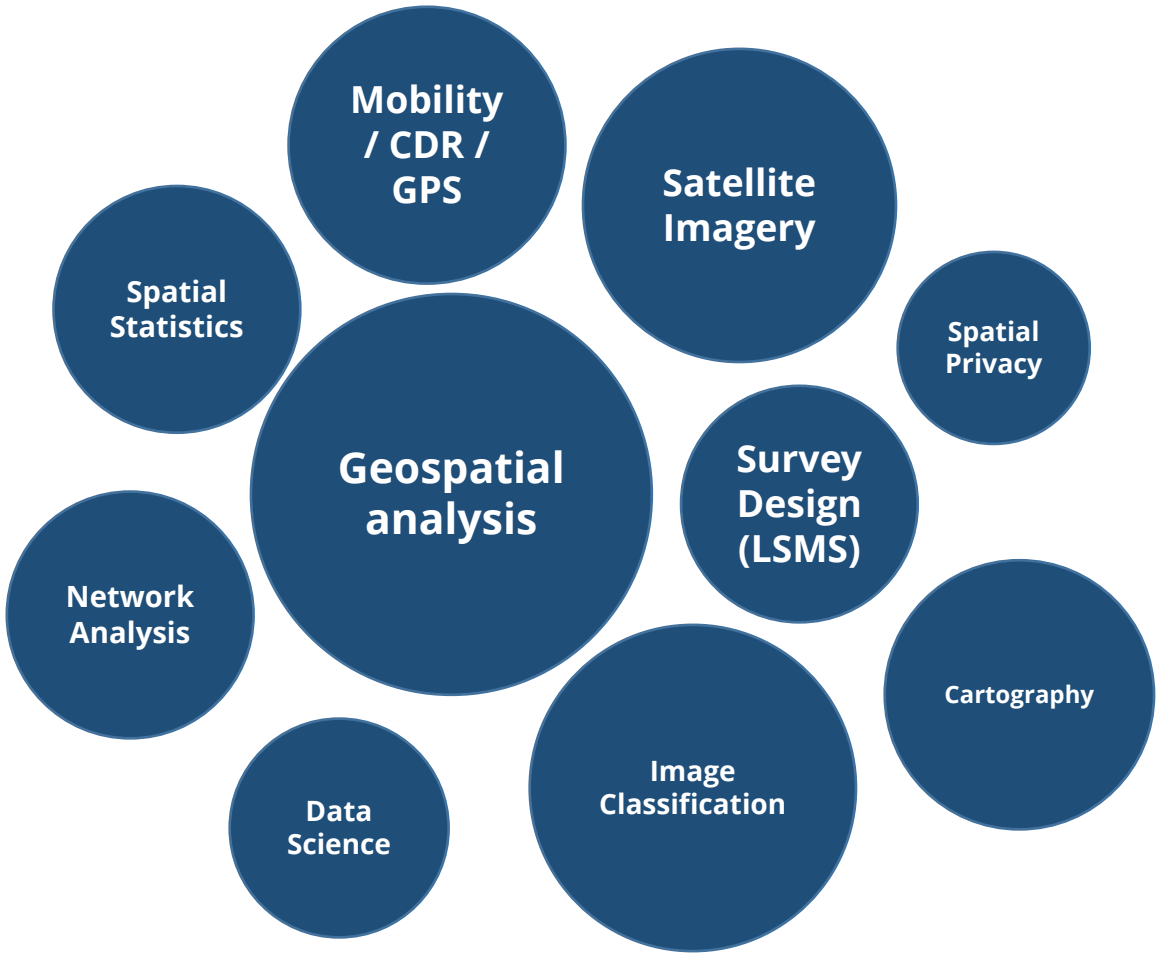
Analyze

Share

Coordinate

Team Competencies

Areas of Expertise

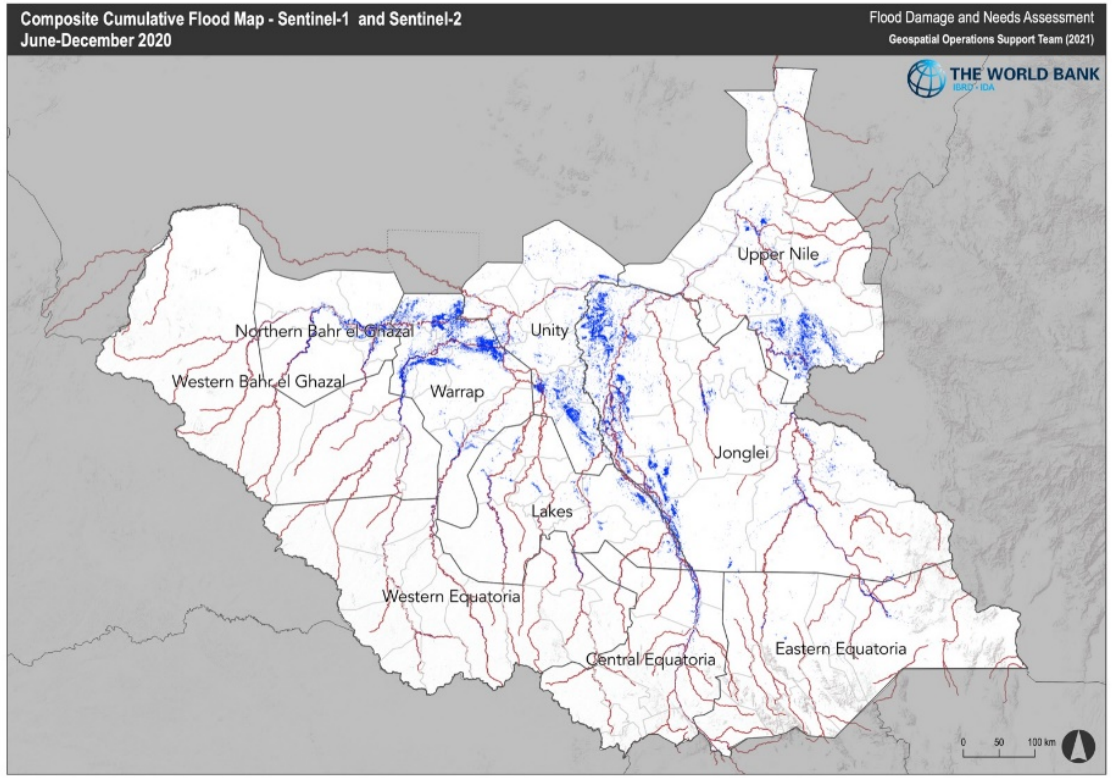


Domains

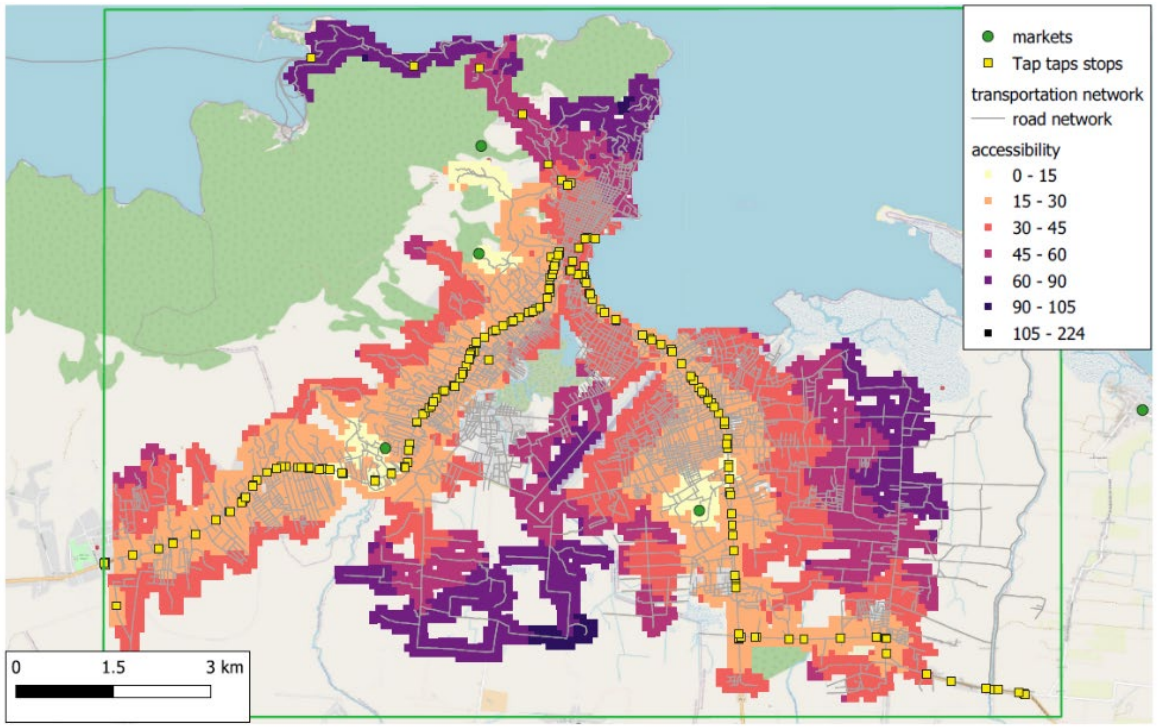
- Market Access, Road Networks, and Criticality/Optimization
- Urbanization, Land Cover Mapping, and change detection.
- Renewable Energy Mapping
- Electrification Planning
- Flood Mapping
- Climate time-series data
- Crop mapping

How? – Just-in time project support

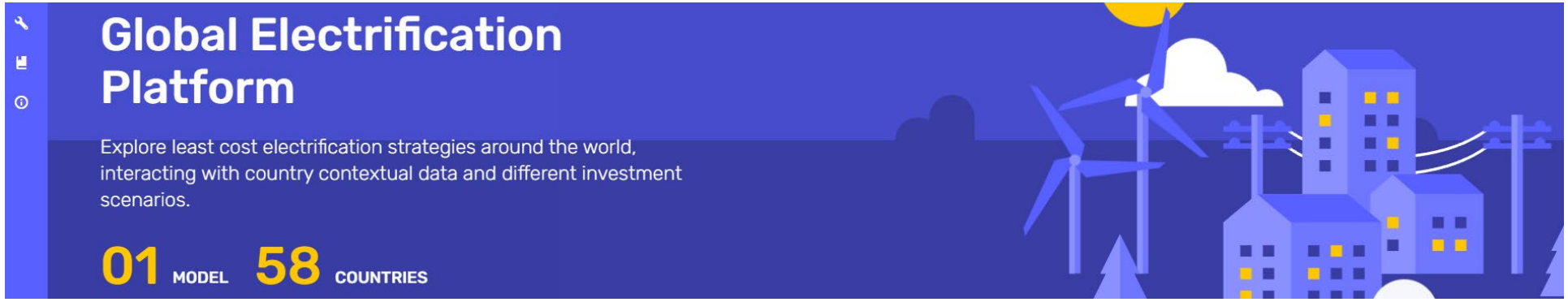
Flood extent mapping using Sentinel and Google Earth Engine

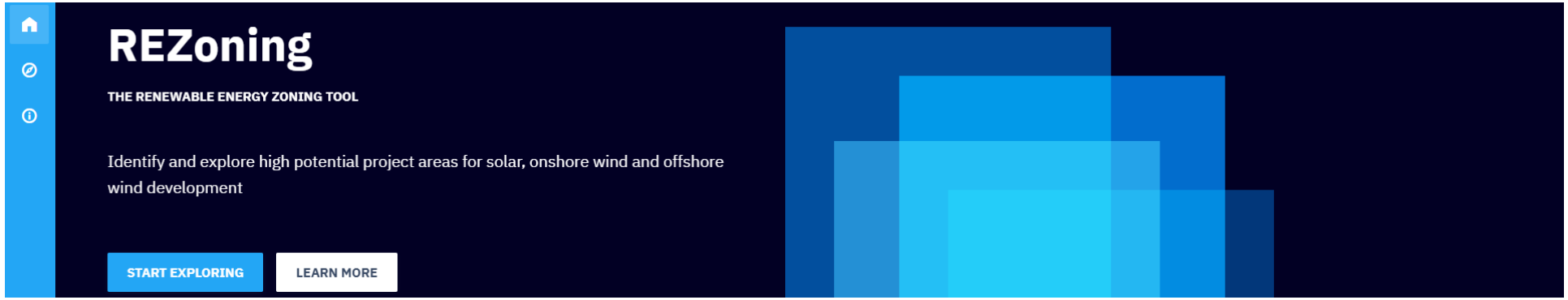


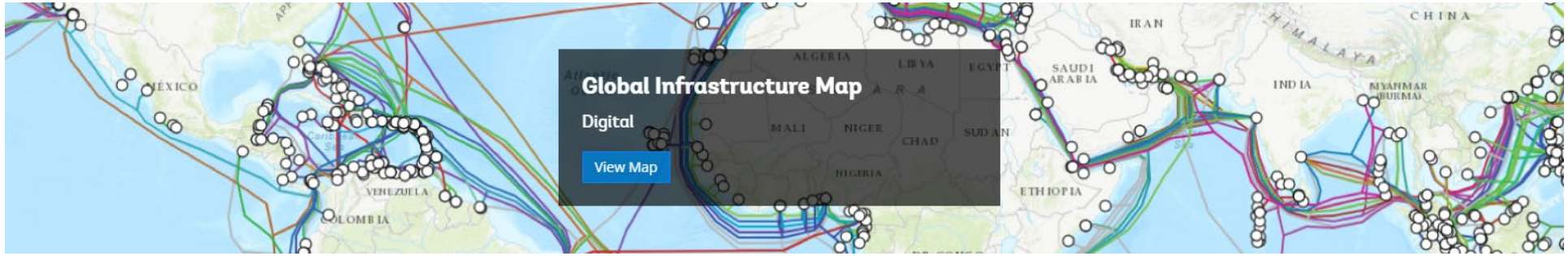
Cap Haitien Accessibility Analysis using GTFS Data



How? – Long-term projects



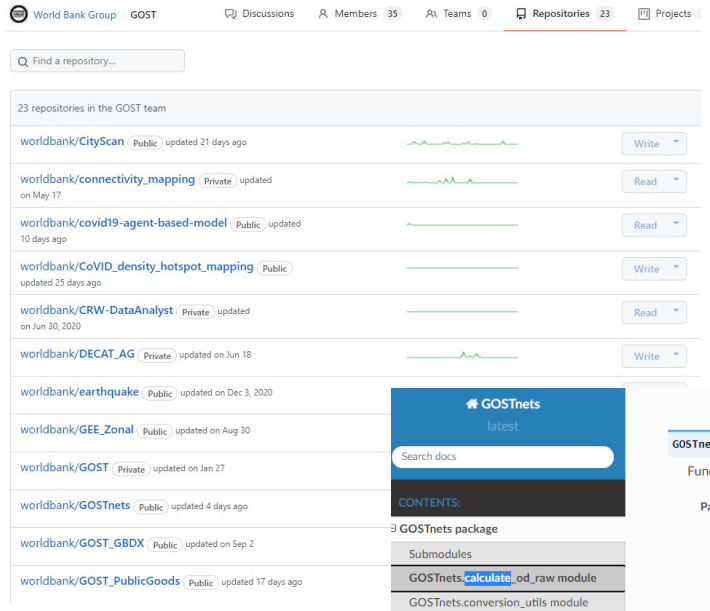


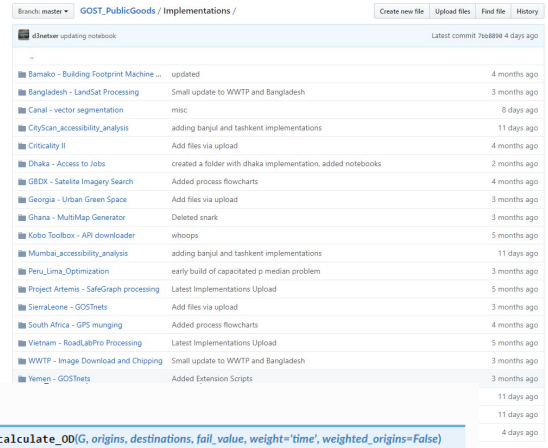


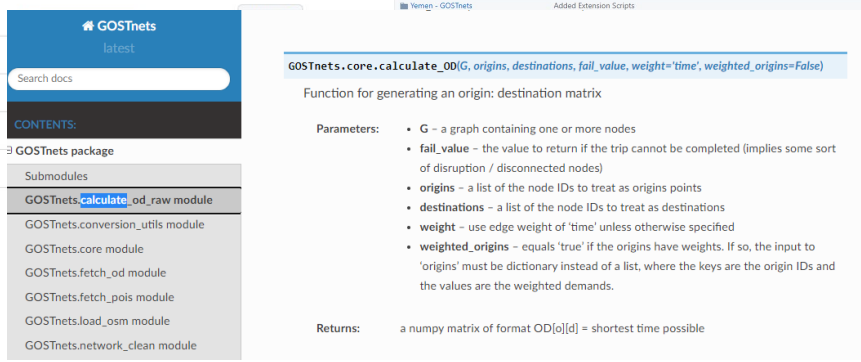
How? – Public Goods

Github

- Administrators of World Bank Github organization
- Document analytical implementations
- Maintain code for reproducible analytics (market access, urbanization metrics, infrastructure mapping, raster tools), or custom data science projects.

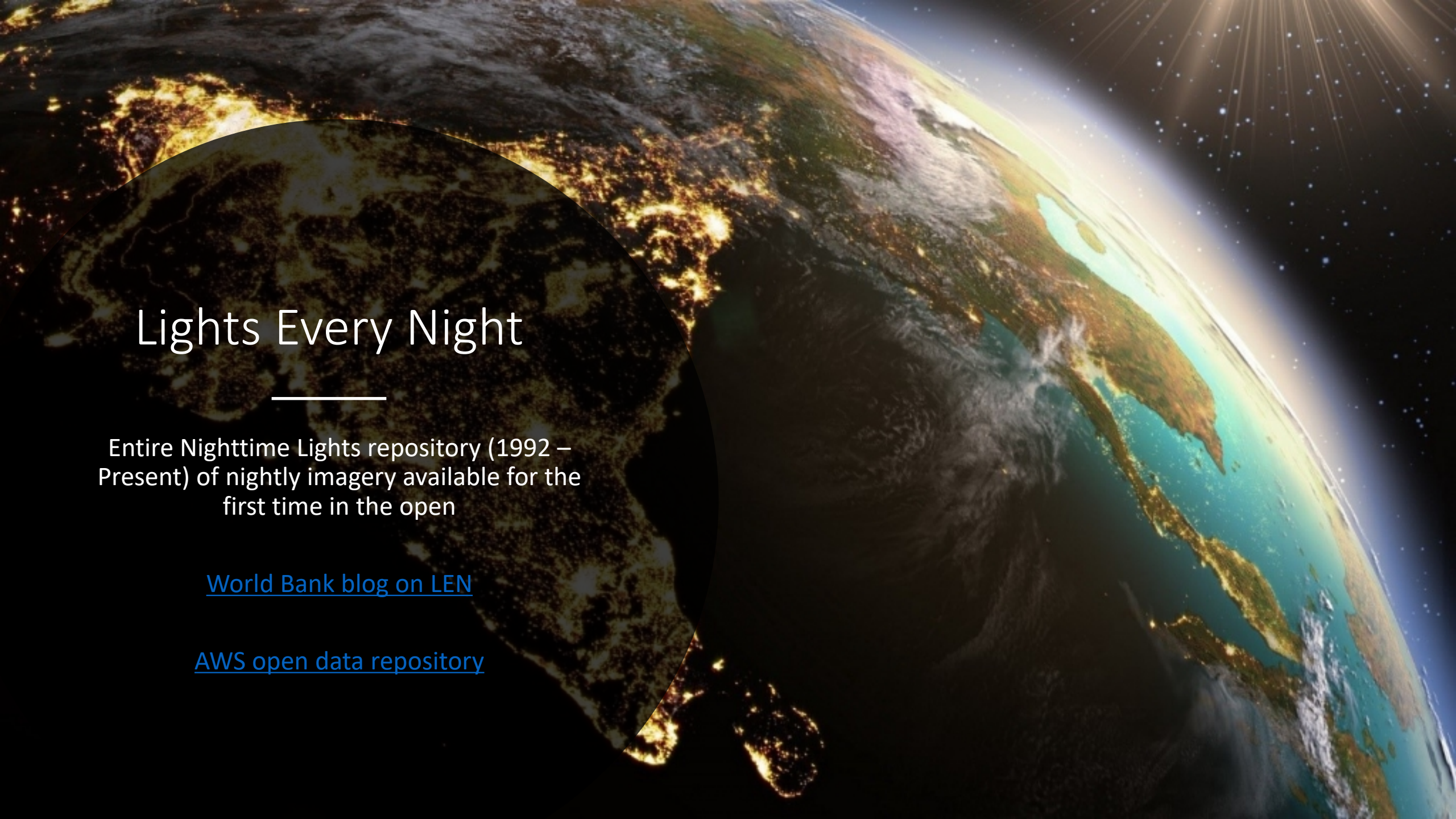






FY22: Re-negotiate Master Service Agreements with imagery providers

- We are currently in the process of renegotiating agreements to simplify imagery procurement.
  - Established discounts
  - Licensing to allow distribution to client countries



Lights Every Night

Entire Nighttime Lights repository (1992 – Present) of nightly imagery available for the first time in the open

World Bank blog on LEN

AWS open data repository

Sample Analytics

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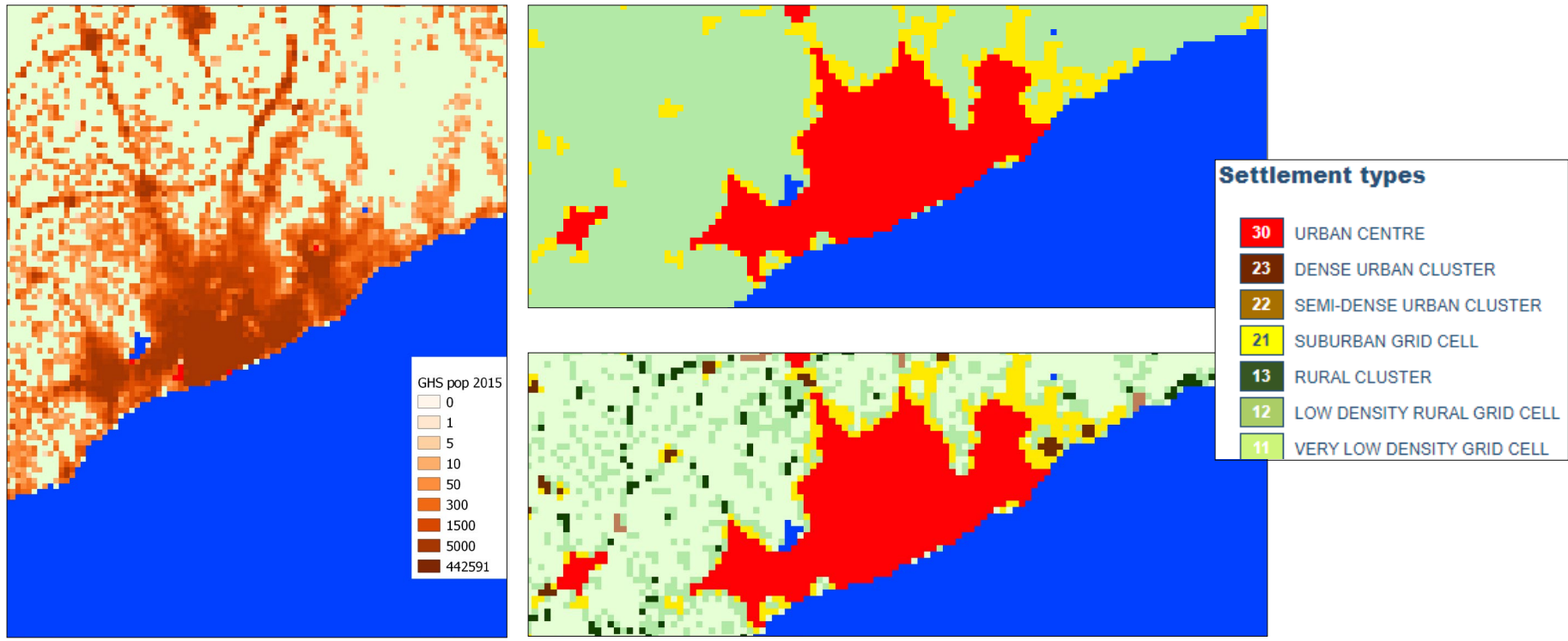
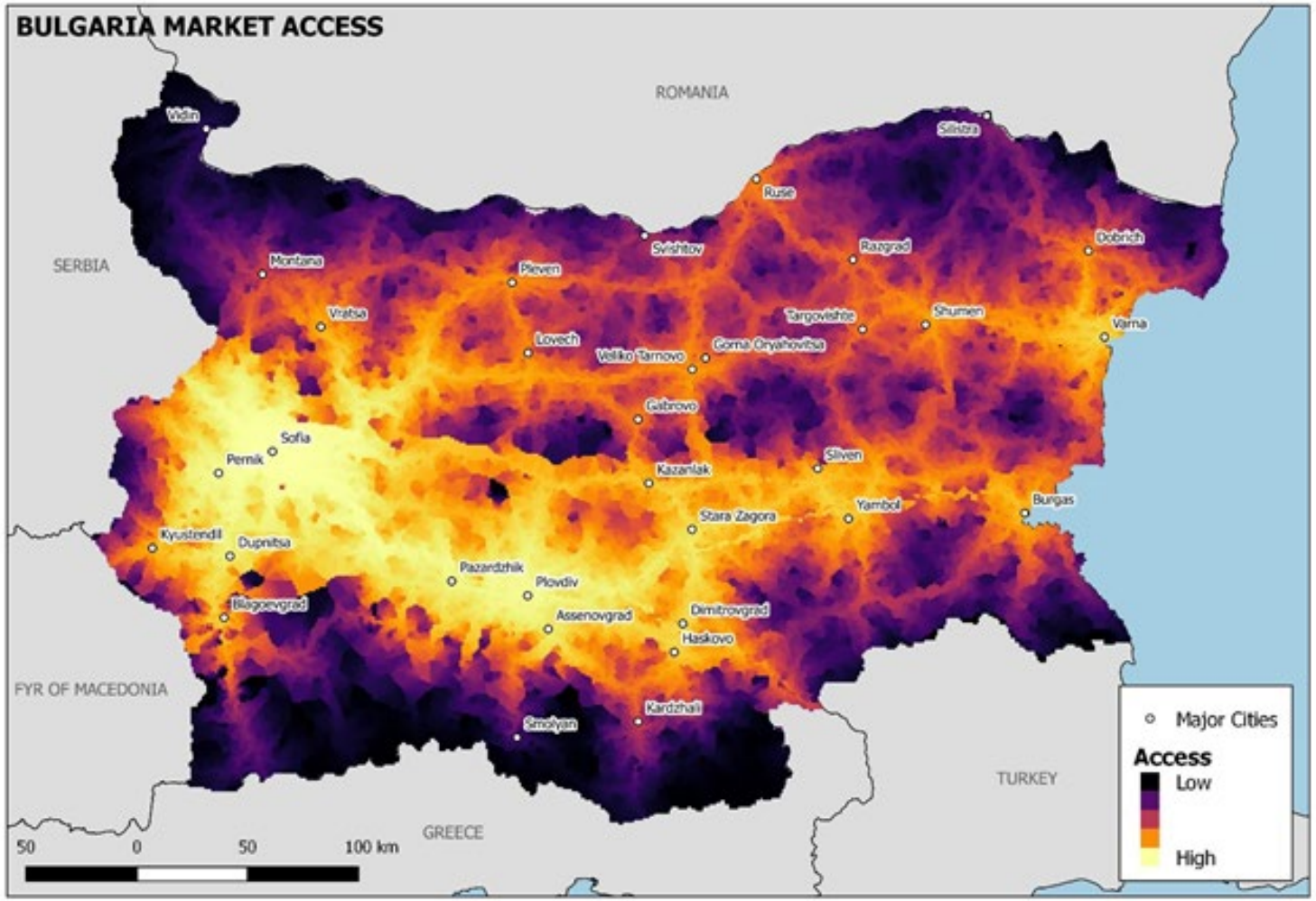
Urbanization

- European Commission
  - Simple classification
  - Advanced classification
  - UCDB – cities database
- Oxford Economics Global Cities Database Projections
  - Variables included
  - Extents expected Nov 2021



Market Access



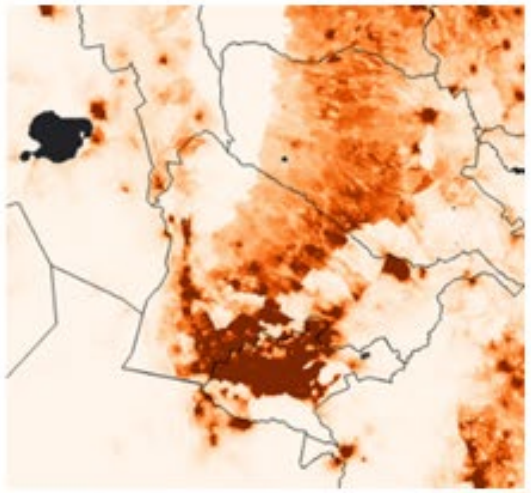
Markets

Schools?

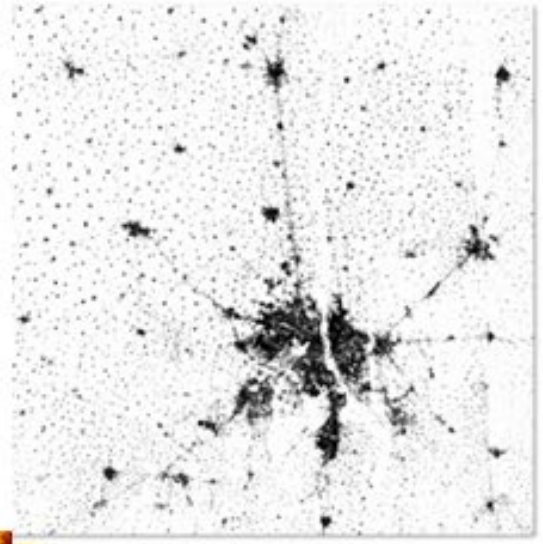
Hospitals?

Analytics from publicly available datasets

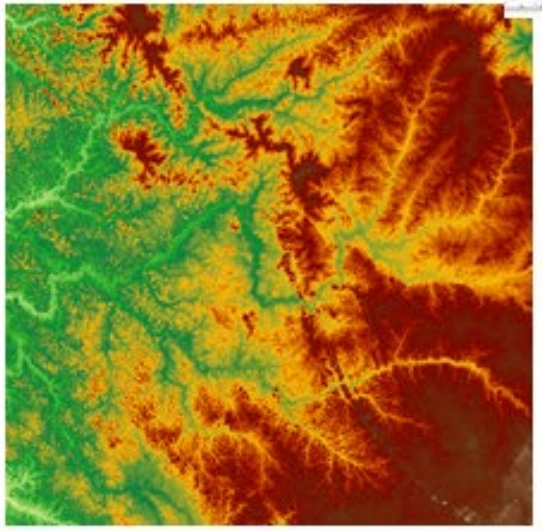
Night Time Lights



Digital Elevation Model



WoldPop



Land Use / Land Cover

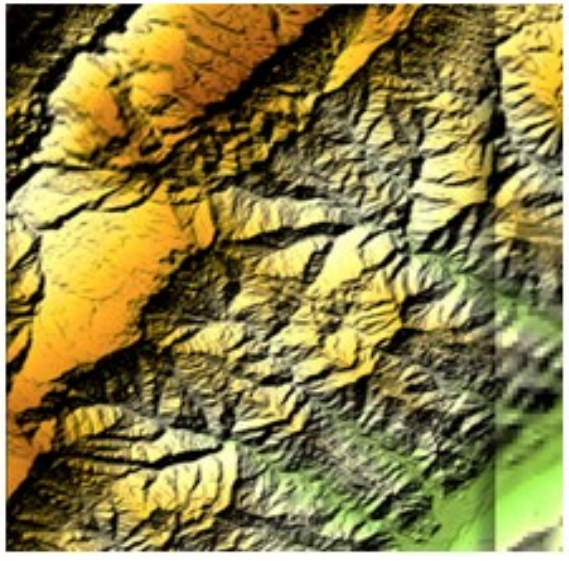
Global Urban Footprint

Understanding possibilities of commercial datasets

Building footprints

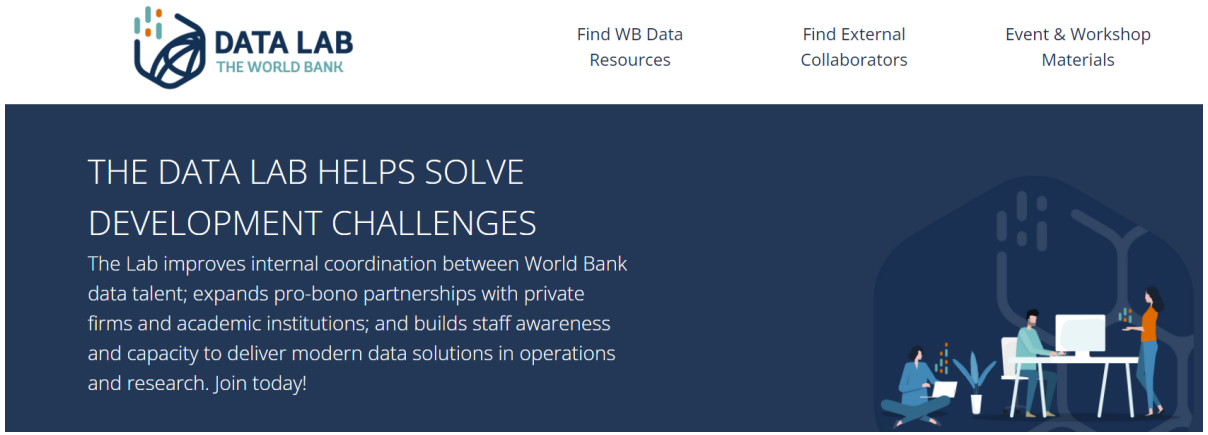
Roads

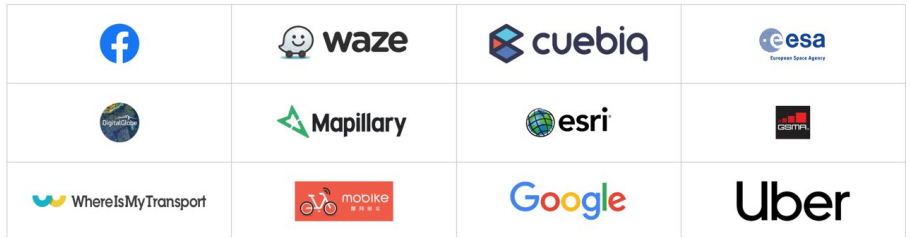
High Resolution DEM (< 10m)



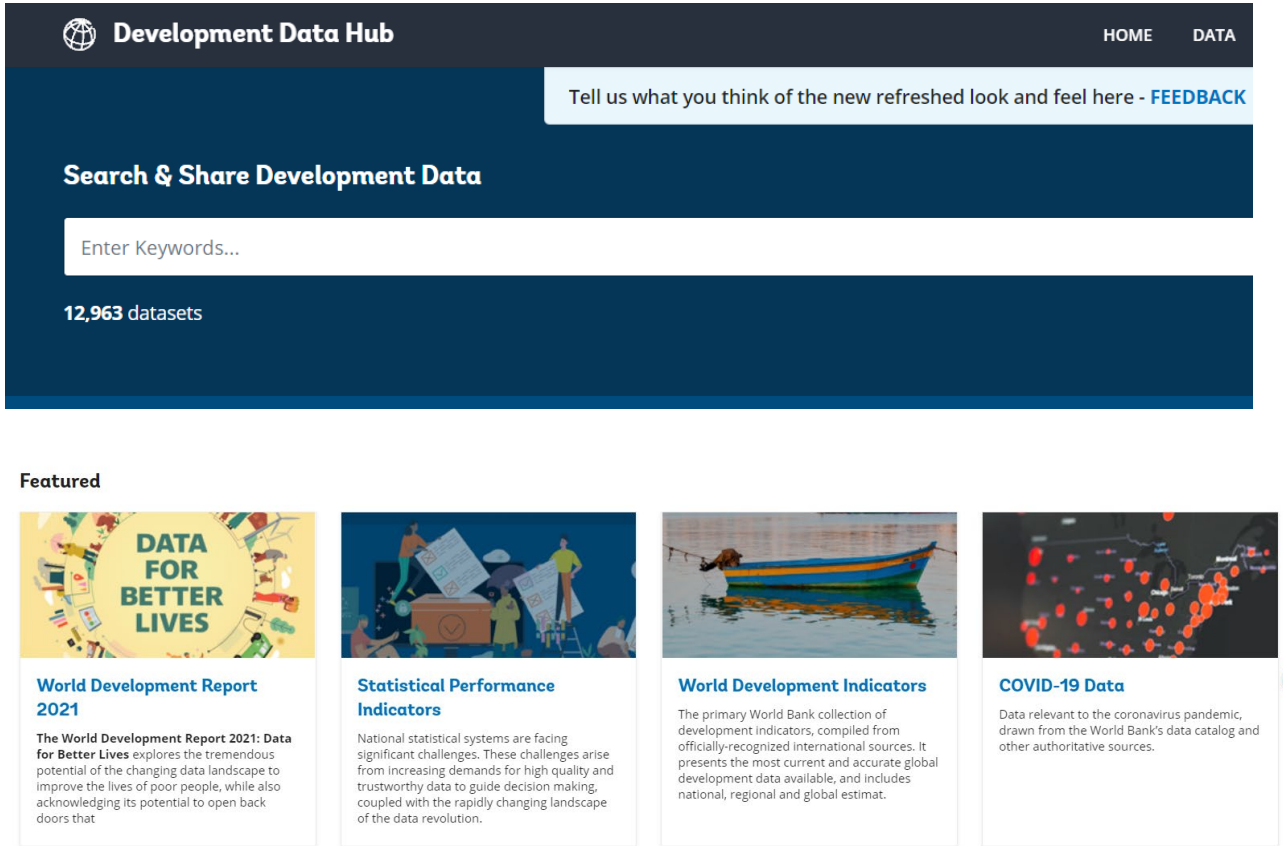
Car Count

Key Resources (non-GOST)





https://wbdatalab.org/



https://datacatalog.worldbank.org

gost@worldbank.org