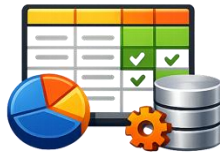


# Data Modalities



## Textual Data

NL Queries, QA,  
Urban Policy Docs



## Tabular & Meta-Data

Census Demographics,  
Socioeconomic Indicators,  
Regional Stats



## Vector Geospatial Data

Shapefiles, GeoJSON,  
POIs, Polygons, CBGs



## Raster & Image Data

Satellite Imagery, SAR,  
VIIRS/DMSP, SRTM/ASTER  
NDVI/EVI Vegetation Indices



## Time-series Signals

GPS Trajectories, Climate,  
LBSN, Traffic Speed,  
Mobility Traces, Check-in

# Agentic Capabilities



## Planning & Reasoning

Goal Decomposition & Multi Step Analysis



## Tool Use

Function Calling, GIS Libraries, SQL  
Engines, Vision Encoders, Maps



## Knowledge Retrieval

RAG, PostGIS Functions,  
GeoPandas Workflows



## Memory & State Tracking

Long/short Memory, User Interactions,  
Historical Context

# Application Landscape



## Geospatial QA



## Code Automation



## Remote Sensing



## Geospatial Optimization



## Urban Planning