

**→ MAPPING URBAN AREAS  
FROM SPACE CONFERENCE**

Session Summery & Recommendations:  
2.7 Emerging Methods

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# 2.7 Emerging Methods



- Multitemporal EO data: optical
  - multispectral or hyperspectral data at various resolutions
  - Sentinel-2 data has potential
- Applications
  - Characterizing urbanization processes in West Africa
  - City Biodiversity Index
  - Characterizing urban functional areas based on Vegetation-Impervious-Soil maps
  - Population density using VIIRS (night light) data

## Sentinel-1 SAR Data:

- IWS data acquisitions in both Dsc and Asc in urban areas
- S-1B: SM acquisitions in urban areas
- Validation
  - Data sharing (ESA, GEO)
  - global validation reference dataset (ESA, GEO)
  - Common validation methods (ESA GEO)