

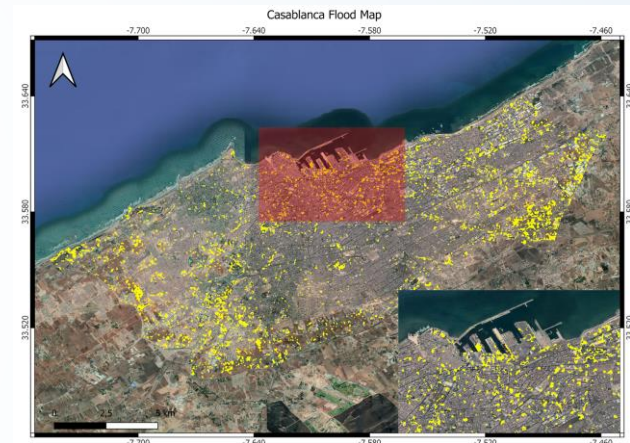
# EO services contributing to SDGs

## Flood Risk/Extent Mapping



- User: Regional authorities, municipalities, water works, city planners, humanitarian aid organizations
- Challenge/Needs: Request for a high-resolution flood-assessment in Morocco.
- Initiative: Determined approximate flooding dates, then selected 2 before and after **Sentinel-1** images for the flood extent mapping and used a thresholding method on the Sentinel difference image (after-before). The methodology was further refined by masking the flood pixels from areas of permanent water bodies.
- Results: This result could serve as a second reference to the Global Precipitation Measurement (GPM) data that was being used by several World Bank clients and insurers
- Service Provider: Space4Good (World Bank)

Target 13.1: Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries.



Flooding Extent Map, Casablanca, 2021

