

# EO services contributing to SDGs

## Flood risk mapping for urban development

- User: City/Municipality administrations for urban development.
- Challenge/Needs: City of Kutina soil map update with regards to the area of frequent flooding.
- Initiative: Use of Sentinel-1 SAR GRD imagery for:
  - Detecting significant increase in soil water and surface water.
  - Detecting the frequency and length of floods.
  - Mapping affected areas, and updating the soil map
  - Providing data of flooding risk to urban development planners
- Results: Soil map updated for areas prone to flooding events, map of areas with special risk of flooding
- Service Provider: Oikon Ltd. – Institute of Applied Ecology

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.

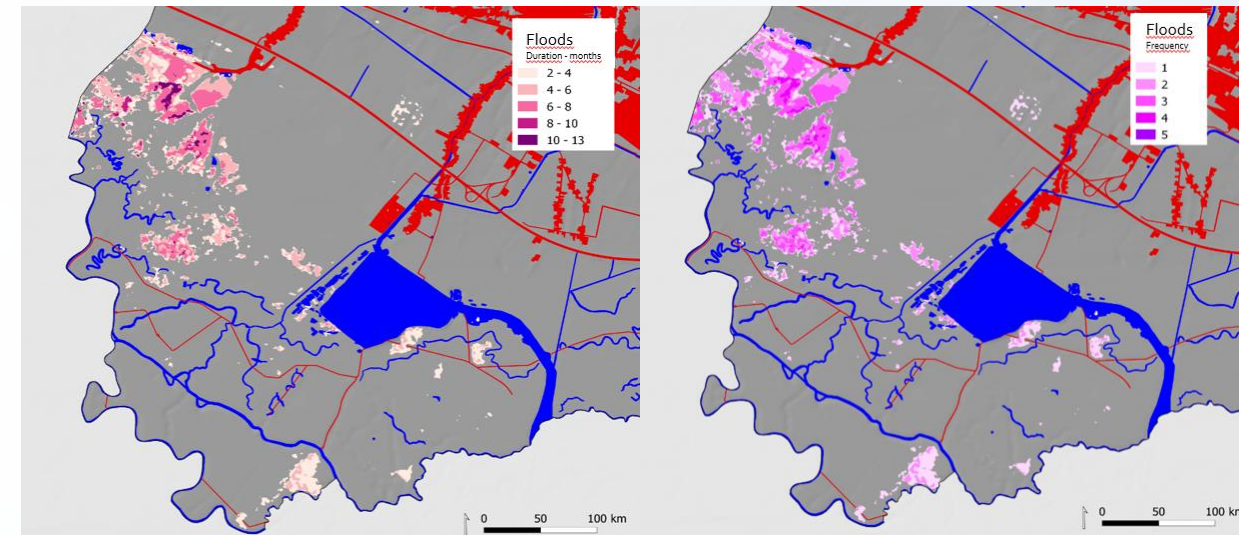


Figure: Flood duration (left) and frequency (right) map of City of Kutina, created using Sentinel-1 data

