

Monitoring of illegal dumping of waste

- Users: environmental agencies, regulators, law enforcement
- Challenge: Detect and deter illegal dumping of waste to help governments fight organized crime, minimize the environmental threat, and recover billions of euros in lost tax revenue.
- Initiative: We develop feature and change detection models using free and open source SAR and optical data to identify potential illegal landfills. This was supported by ODINE, the EU incubator for innovative open data startups.
- Results: Our initial screening model removes 99.4% of the surveyed land mass from consideration. A closer examination of the images of the remaining areas allows us to highlight potential illegal landfills and produce evidence of the scale and duration of the illegal burning and dumping activity.
- Service Provider: Air & Space Evidence Ltd

Target 11.3.: eo services based on Urbeo services based on Inform on infrastructures development & planning. an growth monitoring for sustainable use of land. Indicator 11.3.1: Land consumption
Target 11.6.: eo services based on Spatial mapping of cities & waste management
Target 11.7.: eo services based on Mapping extend of urban areas



Fig. Extracted from Air & Space Evidence site. Detection Model Evidence Investigations, which uses satellite data and algorithms to find unknown illegal sites.