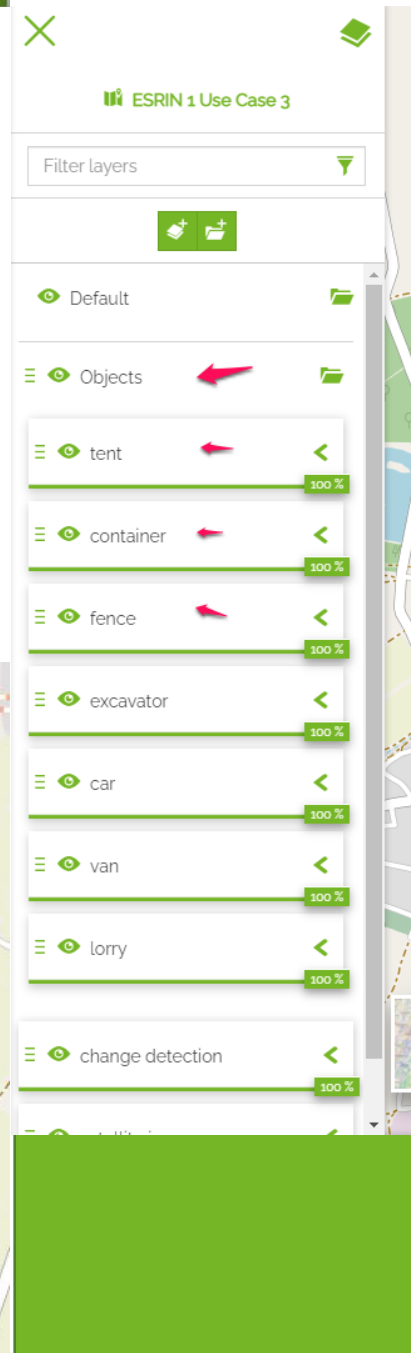


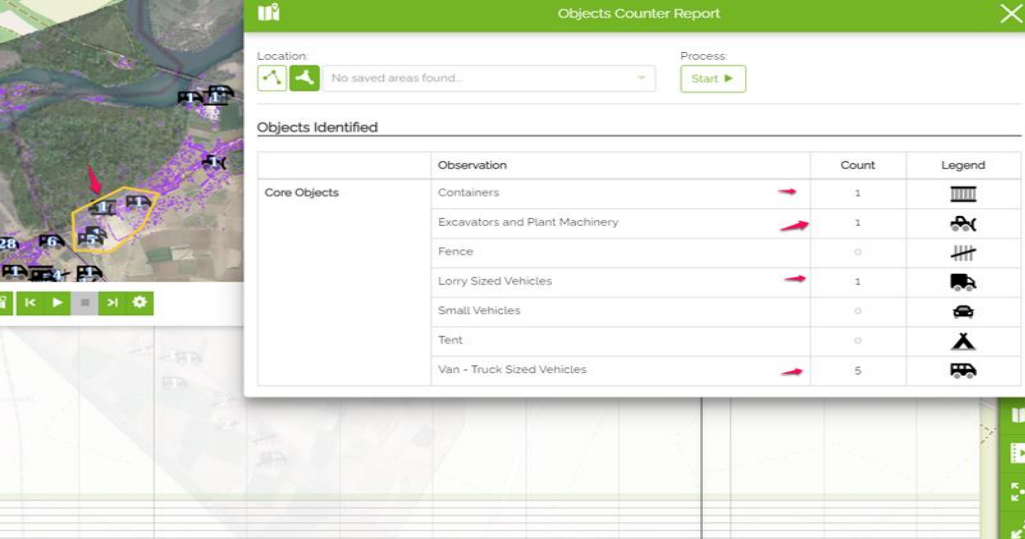


## Border Monitoring Analytics

Earth-i has developed machine learning (ML) capabilities to demonstrate the value of applying advanced analytics to very high-resolution (VHR) satellite imagery and videos for the monitoring of a border crossing, to understand levels and types of activity taking place at the border over a temporal period.

These demonstrated analytics include automated detection and counting of temporary building structures for example: tents, fences and containers, and identifying daily changes in the area of the border crossing point. These changes can be viewed within the SPECTRUM platform as a layer to highlight areas of change.





## New Capabilities Developed

- Archive VHR images of the demonstration AOI, taken from Airbus Pleiades archive;
- GEOINT products using AI on the images, providing identification and count of the number of temporary structures identified in the demonstration AOI.
- Layers denoting the bitemporal change between the VHR images. The results show both positive and negative change and pick up a variety of activity on the border.

## Demonstration AOI

- Section of the Greek/Turkish border over Edirne in Turkey, and Kastanies, Greece

