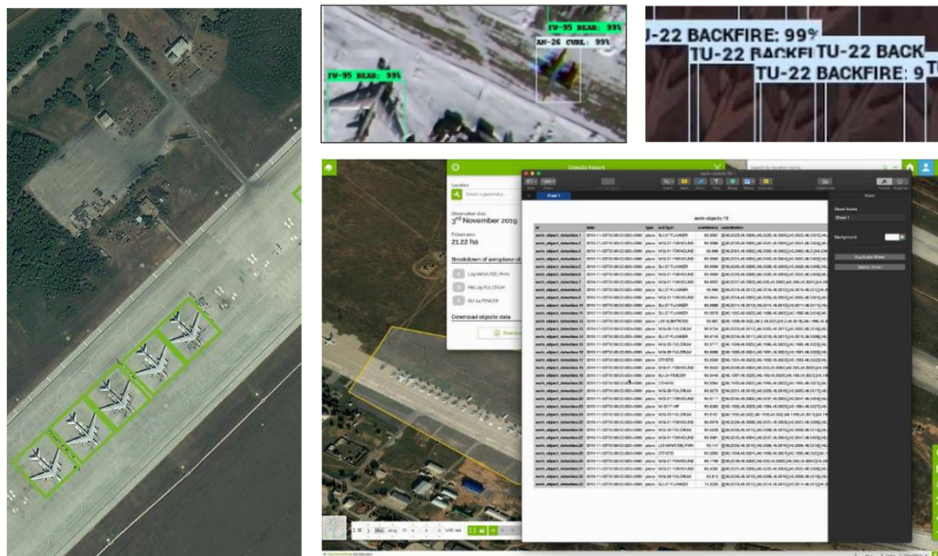# Case Study – Airfield Activity Monitoring

Earth-i licenses its Russian long range aviation detection for use by various defence contractors around the world. This software works with very high-resolution optical data to identify the class and type of aircraft present at strategic airfields.

For each image we acquire over an airfield, we identify:

- Counts of different types of aircraft such as fighters and long-range bombers
- The model of each aircraft based on the findings of professional intelligence analysts
- The locations of each aircraft
- The changes in numbers and types of aircraft since the last observation

Airfield Activity Analysis

> \>10M
> **Objects Identified & Classified PA/Inst**

> \>95%
> **Confidence Level**

> 24x7
> **Operation**

Our technology more can also identify vessels and other objects and has been deployed into other scenarios such as construction and can operate on satellite video data. It can be transferred to other locations and airfields with ease using our flexible image labelling system and network of expert labellers, guided by our rigorous machine learning development process which ensures the best possible classification performance.

The service is delivered in a compatible executable ready for integration into others software, or can be deployed as an API endpoint maintained by Earth-i.

In addition, our technology is being further developed within a parallel programme to provide more persistent monitoring using radar observations which can take place in the night and through cloud.