



Press Release: Orbit Logic Awarded Imagery Recognition Machine Learning Contract

GREENBELT, MD (July 24, 2019) – Orbit Logic announced today that it has been selected for a Phase I Small Business Innovation Research (SBIR) special topic contract sponsored by the United States Air Force Research Laboratory (AFRL) to develop innovative solutions for space data analytics to include data fusion, artificial intelligence, and machine learning. The team will be extending the capabilities of Orbit Logic’s existing COTS solution to create Image Recognition in SpyMeSat (IRIS) updating the SpyMeSat mobile app and supporting server that enables browsing of multiple commercial satellite imagery archives, imagery downloading, and new tasking of imaging satellites.

During Phase I of the SBIR, Orbit Logic will give SpyMeSat a means to provide automated satellite-based site monitoring and analytics through the use of imagery made available through DigitalGlobe, Planet, and KOMPSAT archives. Orbit Logic’s SpyMeSat mobile app will be integrated with an object characterization filter editing environment that allows users to customize change detection, object recognition and image segmentation filters to apply to their imagery. The first use case is automated monitoring of natural gas extraction sites to collect data on fracking activity across thousands of locations. Other use cases exist in urban planning, agriculture analysis, and maritime tracking as well as monitoring military assets and identifying objects of interest such as tanks and aircraft.

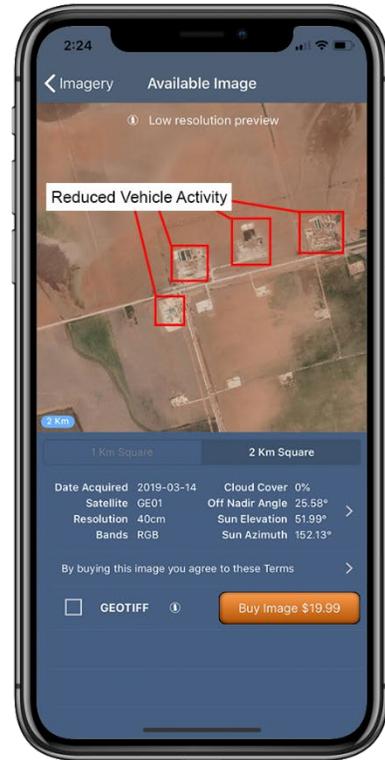
Before



During



After



IRIS object detection and characterization within SpyMeSat mobile app

About Orbit Logic

Orbit Logic (www.orbitlogic.com) specializes in mission planning and scheduling solutions for aerospace and geospatial intelligence. Orbit Logic's operationally proven COTS products create better plans faster with fewer resources for all mission phases. Orbit Logic services are available to configure, customize, and integrate Orbit Logic's mobile, web-based, desktop, and flight software applications to provide turn-key operational solutions that leverage the latest available technologies to meet customer goals and exceed their expectations.

About Air Force Research Laboratory (AFRL)

AFRL and AFWERX have partnered to streamline the Small Business Innovation Research process in an attempt to speed up the experience, broaden the pool of potential applicants and decrease bureaucratic overhead. Beginning in SBIR 18.2, and now in 19.1, the Air Force has begun offering 'Special' SBIR topics that are faster, leaner and open to a broader range of innovations.