

BlackSky Geospatial Capabilities

BlackSky has developed a real-time global intelligence Platform that provides global activity monitoring and analytics from remote sensing platforms, Internet of Things (IoT) sensors, and news and social media sources. The platform supports DHS border and maritime security operations by implementing the full Tasking, Collection, Processing, Exploitation and Dissemination (TCPED) cycle as suite of asynchronous services that continually ingest millions of collections/observations a day to detect, analyze, and report relevant global events and anomalous activity. The system provides commercial satellite anticipatory collection and tasking capability based on tips and cues from real-time event feeds. The architecture is a highly scalable cloud-based system hosted in Amazon Web Services(AWS) with services that can be deployed across multiple environments. The services that are available in the Platform include: commercial imagery tasking and brokering, federated cataloging of global collection data, curation of commercial data sources, order management, and topic-based event detection and channel publishing services for enabling the distribution of content through data feeds.

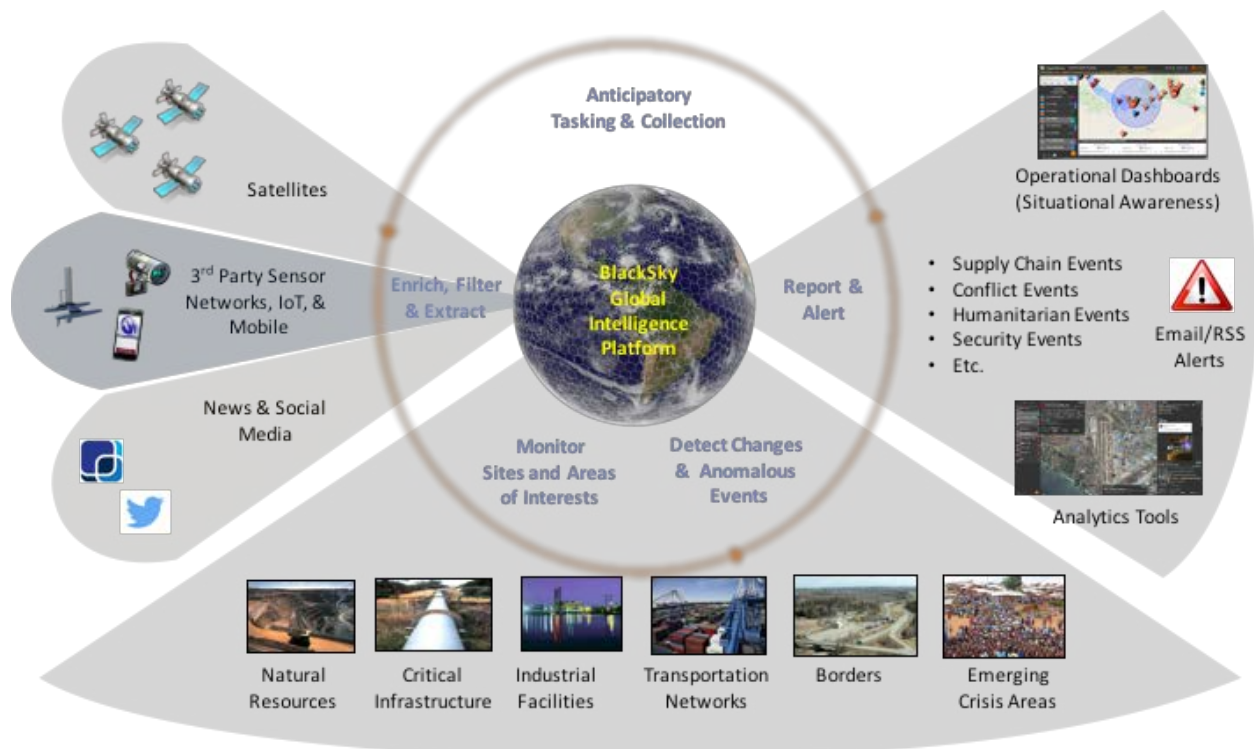


Figure 1 – BlackSky Platform Architecture. The BlackSky Platform provides separable services for commercial GEOINT brokering, geospatial content curation, analytics and change detection, and data feed publishing. BlackSky is launching its own global small-satellite constellation in 2018-2020 timeframe to support site monitoring applications.