Fueling Innovative Solutions for Your Future

Riverside Research has over 55 years of experience leading innovation and transitioning powerful new technologies into practice to enrich the field of Geospatial Intelligence. Through research and development, Riverside Research moves science from the laboratory to the field for the benefit of our nation. Our recognized experts deliver effective, efficient, high-value solutions and services to our sponsors.

RIVERSIDE RESEARCH

MEET WITH OUR TEAM AT BOOTH #2031:

COMMERCIAL SPACE DOMAIN AWARENESS (SDA)

ACCELERATED V&V OF COMMERCIAL ANALYTICS

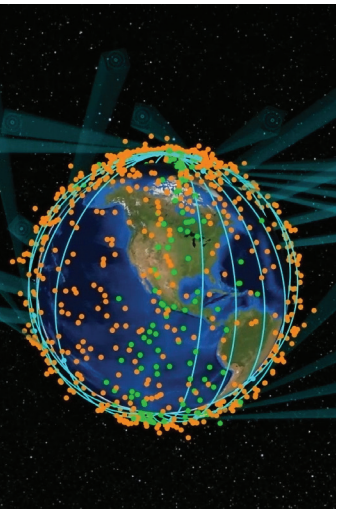
MULTI-INT COLLECTION ORCHESTRATION

SEE OUR VIRTUAL DEMONSTRATONS AND FLYERS VIA THIS QR CODE OR BY VISITING RIVERSIDERESEARCH.ORG/GEOINT2025

REQUEST A PRIVATE MEETING IN OUR BOOTH BY EMAILING EXPERTS@RIVERSIDERESEARCH.ORG

MEET WITH US AT BOOTH #2031

Demos and Flyers: RiversideResearch.org/geoint2025

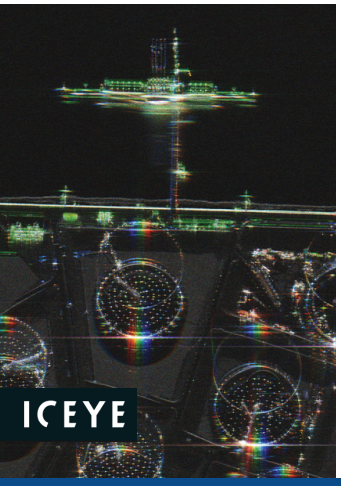


Commercial Space Domain Awareness (SDA)

Riverside Research has extensive experience building Space Domain Awareness prototypes for the USG that leverage commercial imagery and data. Partnering with leading commercial satellite operators, our teams have harvested star tracker camera data for use as an alternative sensor and rapidly processed their subsequent observations for delivery into government systems. We demonstrate how these observations inform analysis using applicable classification and characterization of various detected space objects. Our latest efforts support key USG assessments by automatically responding to tipped detections by cueing additional collections for these and similar objects to facilitate further in-depth analysis. Once deployed on-board satellite systems as a massless payload, **this commercial solution has the potential to reduce latency and push insights directly forward to warfighters and space guardians at tactical timelines.** Visit our website to see this prototype in action as we demonstrate the latest in edge processing to enhance situational awareness in space.

Accelerated V&V of Commercial Analytics

Riverside Research demonstrates our proven independent verification and validation (V&V) processes for thoroughly evaluating and enhancing the assuredness of USG-procured commercial GEOINT data and analytics. Our customizable V&V workflows evaluate vendor products against customer requirements and mission needs, ensuring adherence to standards and increased success of integration with USG systems and subsequent analytical processes. Our V&V approach identifies and mitigates potential integration and commercial GEOINT product challenges early, **delivering trustworthy insights that optimize decisions and maximize vendor investment—turning raw data into mission-ready intelligence.** We evaluate vendor deliverables, verifying format accuracy, detecting objects, and measuring precision and recall using a combination of automated and human-on-the-loop methods. We leverage the latest in geospatial tools—in concert with tailored open-source solutions—to elevate the overall quality of commercial GEOINT data and analytics to help deliver reliable outcomes at speed and scale that sharpen decisions and reduce risk for USG customers.



Multi-INT Collection Orchestration

Riverside Research illustrates how to **maintain custody of an object (ship) using an AI Agent's conversational prompt.** If a ship goes missing for more than 45 minutes, we will seek to regain custody. Automated generation of workflows query relevant knowledge data stores, then forecast likely object locations and orchestrate commercial satellite tasking. AI Agents will then leverage custom models to anticipate target movements and direct feasibility assessments using various commercial satellite vendors, such as our partners BlackSky or ICEYE, for optimal collection and tracking. Detected vessel updates automatically populate the intelligence highlight display card. Analysts can ask follow-up questions (e.g., "Display all SAM sites in the Taiwan Strait" or "How many vessels are in Port X?") with AI Agents that will return synthesized results displayed within Riverside Research's RavenEye geospatial platform.

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