

ISR Mission Planning

Riverside Research is a nonprofit organization advancing scientific research for the benefit of the U.S. government and in the public interest. Through our company's Open Innovation Concept, we invest in multi-disciplinary research and development and encourage collaboration to accelerate innovation, advance science, and deliver trusted solutions.

CAPABILITIES

Riverside Research performs intelligence, surveillance, and reconnaissance (ISR) collection asset modeling and simulation in realistic, operational environments to identify collection opportunities and generate plans for collection requirements.

VAMMP supports planning for ISR collection systems such as the U.S. Air Force's Distributed Common Ground System (DCGS) U-2 and Global Hawk.

FEATURES OF THE VISUAL AIRCRAFT MISSION MANAGEMENT PORTAL (VAMMP)

- » **Agnostic models:** uses standardized parameters to characterize aircraft, sensors, collection behavior, and products
- » **Full-spectrum sensors:** plans multi-phenomenology and multi-classification ISR collection assets
- » **External data sources:** accepts product, weather, terrain, and intelligence reports
- » **Route and sensor planning:** performs comprehensive auto and manual routing and sensor collection planning to account for sensor and vehicle performance, mission requirements, and threat avoidance
- » **Mission monitoring:** visualizes planned versus executed telemetry operations

