SSA Collection 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.

ABOUT CPS

Riverside Research's Collection Planning Suite (CPS) is a web-based modeling and simulation environment and an automated orchestration tool for space-based GEOINT and Space Situational Awareness (SSA) missions.

We developed CPS to provide collection managers the ability to manage the vast and diverse array of satellites against a consolidated deck of GEOINT and SSA collection requirements with ease.

The CPS is currently operational in U.S. Government enterprises today. As a license-free product for the U.S. Government, the CPS is a powerful and affordable answer to your GEOINT and SSA constellation orchestration needs.

SPACE SITUATIONAL AWARENESS (SSA)

Building upon our Collection Planning Suite technology, Riverside Research developed a containerized feasibility and orchestration prototype solution that integrates SSA collection planning for commercial data providers as well as government assets.

CONSTELLATION ORCHESTRATION

The SSA Planner supports satellite collection research and analysis, feasibility studies, strategy development, and daily planning for a constellation. Using system models, the SSA Planner can modify and manage existing or integrate new data providers. The SSA Planner creates optimized collection plans using Collection Requirement parameters including priority, geometry, solar/lunar lighting, and cyclic parameters.

Service-oriented SSA Planner can integrate into most system-of-systems via documented web services for collection requirements and other data. Planners and researchers can view the collection opportunities and collection plans via a human readable report.