

Studies and Analysis Division

The Studies and Analysis (S&A) Division supports experimentation, conducts analyses in support of materiel development activities and requirements determination, assesses advanced concepts, and analytically supports the definition of space and missile defense architectures for the future warfighter.

Core Competencies

Operational Analysis — S&A analytically supports the U.S. Army Space and Missile Defense Command, the Army, and DoD in all operational aspects of space and missile defense support to the Objective Force. The division is able to conduct analysis for the full spectrum of warfighting based on its staff of professional operational research analysts who have extensive space, missile defense, and military background. S&A has modified, as well as created, scenarios; developed measures of performance, measures of effectiveness, and other critical metrics; and has directed multiple organization studies. The division also has Training and Doctrine Command (TRADOC) liaison personnel who maintain Army approved scenarios and operate force-on-force simulation models.

Experimental and Analytic Design — S&A designs experiments and analyses from planning and execution to synthesis and reporting. S&A has broad experience in the design of experiments to ensure that the collection of data supports the essential elements of analysis. The division has developed the methodology for experiments and analyses for SMDC and the Army. It has also assisted other Army organizations, Air Force analytic agencies, and the DoD staff in designing experiments and analysis.

Statistical Data Analysis — S&A has the internal capability to perform a complete range of statistical data analysis. The S&A team consists of analysts who have a broad background in mathematical and simulation modeling – both operational and cost based.

Force-on-Force Simulation — S&A maintains a full in-house suite of force-on-force simulations. The force-on-force models include engineering, tactical, theater, and operational level simulations. S&A maintains a staff fully dedicated to maintenance, sustainment, and operation of these tools, which enables the team to perform quick turnaround analysis as well as extensive long term studies.

Past and Ongoing Products

- Joint Forces Command J9 Swarming Unmanned Aerial Vehicle Study (Study Lead)
- Decision Support Center Space Based Radar Study (Army Study Lead)
- Army G8 Army Equity in Space – Intelligence, Surveillance, Reconnaissance Study (Study Director)
 - Directed Energy (DE) Project Office, DE Study (Study Lead)
 - TRADOC Unit of Action Concept Experimentation Program, Air Force Ground Moving Target Indicator Analysis of Alternatives (Army Lead)

In-House Simulation Tools

- Satellite Tool Kit
- Janus
- Systems Effectiveness Analysis Simulation
- Extended Air Defense Simulation (EADSIM)
- Commander's Analysis and Planning Simulation
- Eagle
- EADSIM/FIRESIM Federation

Special Note: S&A has coordinated with TRADOC Analysis Center to incorporate Vector in Command until Army Warfighting Simulation has been approved and fielded.

For more information, please contact:

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