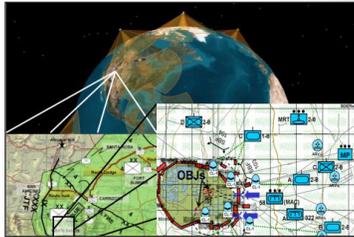
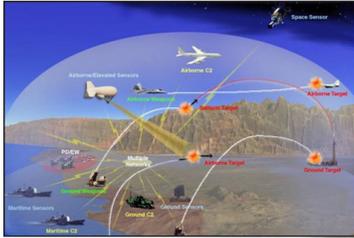




S&A

Studies and Analysis Division



Design and execute operational and cost benefit analyses that enable experimentation, exercises, tabletop wargames, and studies required to support major decisions concerning acquisition.

The Studies and Analysis Division focuses on determining the military utility of space, missile defense, and high altitude, as well as the associated concepts of operation for the current and future ground Warfighter. S&A evaluates systems and operations through tabletop wargames and experiments; analysis of alternatives in support of materiel development activities and capabilities requirements determination; assessments of advanced concepts; and analyses that define space, missile defense, high altitude, and cyberspace operations for the ground Warfighter. S&A conducts major studies that support decisions made at the Army and Department of Defense – both in determining the best way ahead in support of the Army Joint Capabilities Integration and Development System process and in influencing joint development efforts of the other services and homeland defense that impact the current and future ground Warfighter.

- Technical personnel with operational knowledge
- Analysis experience with constructive force-on-force simulations
- Proficiency in experimental and analytic design
- In-depth statistical data analysis skills
- Proficiency in executing cost-benefit analyses

The Studies and Analysis Division develops and sustains the core competencies required to execute these functions: operational experience, force-on-force simulation expertise, statistical analysis skills, cost-benefit analysis proficiency, and design of experiments expertise. These competencies, combined with an extensive in-house suite of models and simulations, enable S&A to conduct studies and analyses that impact major decisions made at the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command, Department of the Army, Department of the Air Force, joint staff, U.S. Strategic Command, and Office of the Secretary of Defense levels.

Operational Analysis — S&A analytically supports USASMD/ARSTRAT, Army, and the Department of Defense in all operational aspects of space, missile defense, and high altitude support to the ground Warfighter. S&A conducts analyses for the full warfighting spectrum based on a staff of professional operations research analysts who have extensive experience in the areas of space, missile defense, high altitude, cyber, and military combat operations. S&A modifies and creates scenarios, develops measures of performance and effectiveness, and other critical metrics. S&A also collaborates with the U.S. Army Training and Doctrine Command to collaborate and develop scenarios and maintain force-on-force simulations.

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 all essential elements of analysis. S&A has developed the methodology for experiments and analyses for numerous efforts and has assisted other DoD organizations in designing their experiments and analyses.

Statistical Data Analysis — S&A has the internal capability to perform a complete range of statistical data analyses. S&A consists of analysts who have an extensive background in mathematical and simulation modeling – both operational and cost based – and utilize the latest methodologies and tools.

Force-on-Force Simulation — S&A maintains an in-house suite of force-on-force simulations that include engineering, tactical, theater and operational-level simulations. S&A maintains a staff dedicated to maintenance, sustainment and operation of these tools, which enables the execution of quick turnaround analyses as well as long-term studies.

Cost-Benefit Analysis — S&A conducts cost-benefit analyses to identify solutions that address Army and organizational objectives by quantifying potential financial impacts and performance improvements. S&A consists of analysts with experience and training in the execution of cost-benefit analyses and related assessments.

Past and Ongoing Studies

- Space Impacts on Precision Fires
- Terrestrial Communications Study
- Brigade Combat Team Multi-mission High Energy Laser Combat Vehicle Effectiveness Study
- Cyber Threat Assessment and Vulnerabilities Mitigation for US Global Missile Defense and Space Capabilities
- Army Space Superiority Analysis of Alternatives
- Tactical Satellite III Joint Military Utility Analysis
- Contribution of Offensive and Defensive Integration to Ballistic Missile Defense
- Joint Regional Integrated Air and Ballistic Missile Defense Capability Mix Study
- Nanosatellite Objective Communications System Study
- Offensive Cyberspace Operations
- Operational Support to Joint Functional Component Command for Integrated Missile Defense and Geographic Combatant Commands
- Regionally Aligned Cyber Forces
- Electric Fires Study

In-House Simulation Tools

- Extended Air Defense Simulation
- Joint Conflict and Tactical Simulation
- Systems Effectiveness Analysis Simulation
- GPS Interference and Navigation Tool
- Command and Control Battle Management and Communications Planner
- Improved Many on Many
- Systems Tool Kit
- Satellite Orbit Analysis Program
- Extend Process Model



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