AGI software provides a modeling, simulation and analysis (MS&A) environment that brings an open, multi-level modeling solution to the industry. The environment is built on commercially available Systems Tool Kit (STK) and PHX ModelCenter® software already in use across the DoD, intelligence, FFRDC, SETA and contractor communities.

STK can evaluate your system against the mission threads throughout the design process, providing design validation and feedback against requirements. Combining STK with tools such as ModelCenter’s graphical environment for automation, integration and design optimization brings unmatched model-based engineering (MBE) and model-based systems engineering (MBSE) capabilities to your organization, proven to reduce risk and lengthy iteration while freeing up resources for other projects.

Integrate in-house, specialized tools to support analysis and engineering activities across the acquisition, development, operations and sustainment lifecycles. By providing a common foundation for reusing and/or developing essential GOTS, COTS and custom intellectual property (IP), AGI software improves transparency and collaboration across an enterprise, program or community. In addition, it allows for customized end-user workflows, and can be hosted on a desktop, distributed and/or cloud environment. AGI’s Software Services team will customize a modeling, simulation and analysis solution based on your organization’s needs.

**Interoperability and Integration**
Users can connect tools, models, algorithms and agents, while orchestrating analytical executions to:
- Perform parametric and scenario analysis or simulations
- Enable design of experiments, optimization and monte carlo studies
- Explore, import and manage models
- Build composite models from multiple tools (e.g., integration of performance, behavioral, cost, risk, schedule and other relevant models)

**Data Management and Results Communication**
Configuration-managed data, along with dynamic visualization and interrogation tools, allow the enterprise to:
- Manage discovery, exposure and quality of data
- Ensure data and modeling integrity
- Enable traceability of data to analysis and requirements
- Provide user-appropriate data manipulation, reporting and collaboration

**Modeling and Simulation**
Represent any physical system or collection of systems applied to a specific mission context. Breadth of capability includes:
- Multi-level modeling (e.g., engineering, engagement, mission and/or campaign)
- System-of-systems representations and architectures
- Land, air, sea, space and cyber domains
- Continuous and equation-based simulations

Learn more about how AGI can implement an MS&A solution at your organization: agi.com/msa.