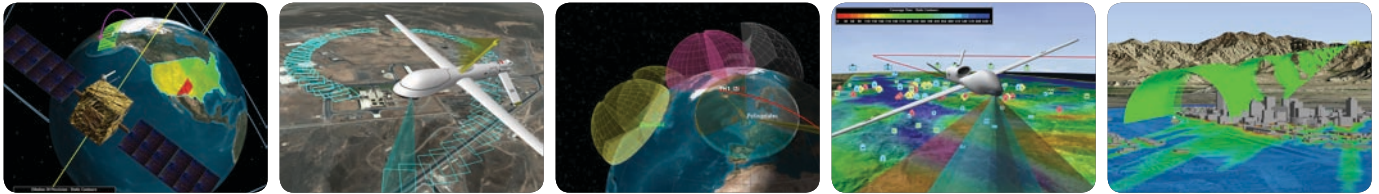




stk Create and analyze system models in mission context



STK is an off-the-shelf mission modeling and analysis desktop application for space, defense and intelligence systems. Engineers and analysts use STK to model complex systems (aircraft, satellites, ground vehicles), along with their sensors and communications, in the context of the mission environment. Through integrated visualization, STK brings a clear understanding of system behavior and performance measured against mission objectives.



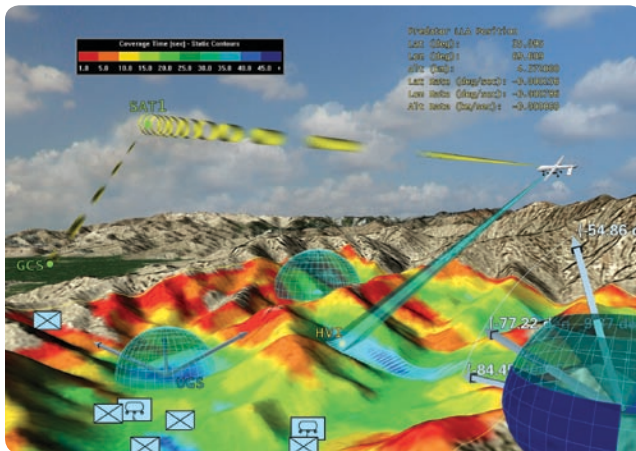
STK supports engineers and analysts developing concepts; planning and evaluating tests; implementing training; and analyzing operations.

Engineers can develop system and mission concepts while communicating design and value. These concepts may be simple or complex multi-asset, collaborative mission systems.

By combining models to build and analyze mission scenarios, engineers can experiment with real-world situations (including geography and threats) to evaluate strategies, tactics and limitations of the system while articulating key system differentiators.

Analysts can vary system parameters to perform trade studies, analyzing system capability against mission success. They can then utilize dynamic reports, graphs, movies or the interactive 3D display to communicate quantitative and qualitative system characteristics.

Through STK's fully documented Application Programming Interface (API), engineers and analysts can extend, customize, integrate or automate the software.



### USE STK TO:

- Model complex systems (platforms, payloads and mission environment)
- Modify system parameters
  - Vehicle performance
  - Sensor geometry and constraints
  - Antenna characteristics
- Model system limitations
  - Geometric (angles, ranges, rates)
  - Temporal
  - Lighting
  - Link margin
- Combine system models
  - Mission scenarios
  - Collaborative systems
  - Interactive design
- Define custom geometries, vectors, coordinate systems and reference frames
  - Sensor pointing
  - Attitude modeling
- Analyze system models in the context of a mission
  - Sensor coverage
  - Collection feasibility
  - Link budget
  - Geometric and temporal conflicts
- Evaluate the impact of system parameters
  - ~10,000 qualitative and quantitative metrics
  - Report, graph and vary any metric
- Visualize the system and its performance
  - Smooth, time-dynamic 3D visualization
  - Text and graphical annotations
  - Display of GIS map and vector data
  - Camera control and flythrough
- Collaborate and share models and analysis
  - Standard data import and export
  - Presentation graphics (movies, images, reports)
- Integrate with other tools
  - Fully documented API

STK gives engineers and analysts full mission modeling, analysis and visualization capabilities in simulated or real time. Learn more at [AGI.COM/STK](http://AGI.COM/STK).

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SOFTWARE FOR SPACE, DEFENSE AND INTELLIGENCE

