

## AGI TECHNOLOGY APPLICATION AREAS\*

### ▶ C4ISR

Attain visibility into all battlespace assets via integrated displays, real-time data feeds, terrain analysis, and GIS data support.

### ▶ COMMUNICATIONS & ELECTRONIC WARFARE

Model comm system receivers and transmitters on dynamic assets; calculate complete link budget for communications links; model electromagnetic interference sources.

### ▶ GEOSPATIAL INTELLIGENCE

Add the component of time to geospatial information; create map objects/layers; retrieve and write GIS data to geodatabases; and predict sensor analysis from aircraft or satellites.

### ▶ MISSILE DEFENSE

Model ballistic missiles, kinetic interceptors, sensor systems, and integrated missile defense architectures and perform radar, communications, and interference analyses.

### ▶ NAVIGATION

Determine past, present, and future satellite navigation performance for regions of interest and dynamic platform routes and receivers; analyze jamming and interference effects; and model augmentation systems.

### ▶ RANGE SAFETY

Study launch windows and trajectories; design communications systems for launch vehicles and ground systems; and analyze tracking sensors.

### ▶ SPACE EXPLORATION

Evaluate spacecraft characteristics; analyze and visualize sensors; design communications systems, rendezvous, or proximity operations; study launch opportunities; model flight characteristics; and calculate interplanetary trajectories.

### ▶ SPACECRAFT MISSION DESIGN & OPERATIONS

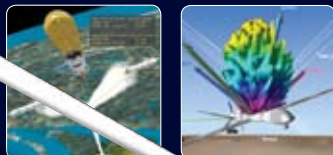
Evaluate spacecraft characteristics; analyze and visualize sensors; model launches, orbits, and flight characteristics; design communications systems, rendezvous, or proximity operations; study launch opportunities; plan maneuvers; perform scheduling; and calculate interplanetary trajectories and the motion of Earth, planets, stars, and atmospheric environments.

### ▶ SPACE SUPERIORITY

Assess new foreign launches; detect laser illumination; improve geo-location; perform rendezvous and proximity operations; track RSOs; and assess space order of battle.

### ▶ UNMANNED SYSTEMS

Depict full multi-platform airspace; perform collection planning and UAS coverage analysis; model sensors and threats. Present all analysis in 3D for real-time or pre-mission situational awareness.



\* Capabilities listed for each application area are a brief subset. For full details, visit [www.agi.com/solutions](http://www.agi.com/solutions).

# APPLICATION AREAS

## LEARN MORE ABOUT AGI'S INDUSTRY-LEADING

- DESKTOP APPLICATIONS
- APPLICATION ENGINE
- SOFTWARE COMPONENTS

- ▶ **TRAINING:** AGI offers free and nominally priced hands-on training around the world for all experience levels.
- ▶ **WEBINARS:** Live and recorded "how to" webinars presented by subject matter experts are available online.
- ▶ **SEMINARS:** AGI travels to key cities throughout the year to host technical events on topics of current community interest.
- ▶ **TRADESHOWS:** Visit AGI at various industry events for a one-on-one demonstration of the latest software functionality to support your specialized needs.
- ▶ **CERTIFICATION:** AGI's self-study STK Rocket Scientist Certification Program recognizes individuals with considerable knowledge of STK and the ability to provide support for the software.
- ▶ **USER GATHERINGS:** Join your peers at AGI and user group-sponsored gatherings for discussions of real-world software applications, technology demonstrations, and networking activities including the October 2008 AGI Users' Conference in Chicago!



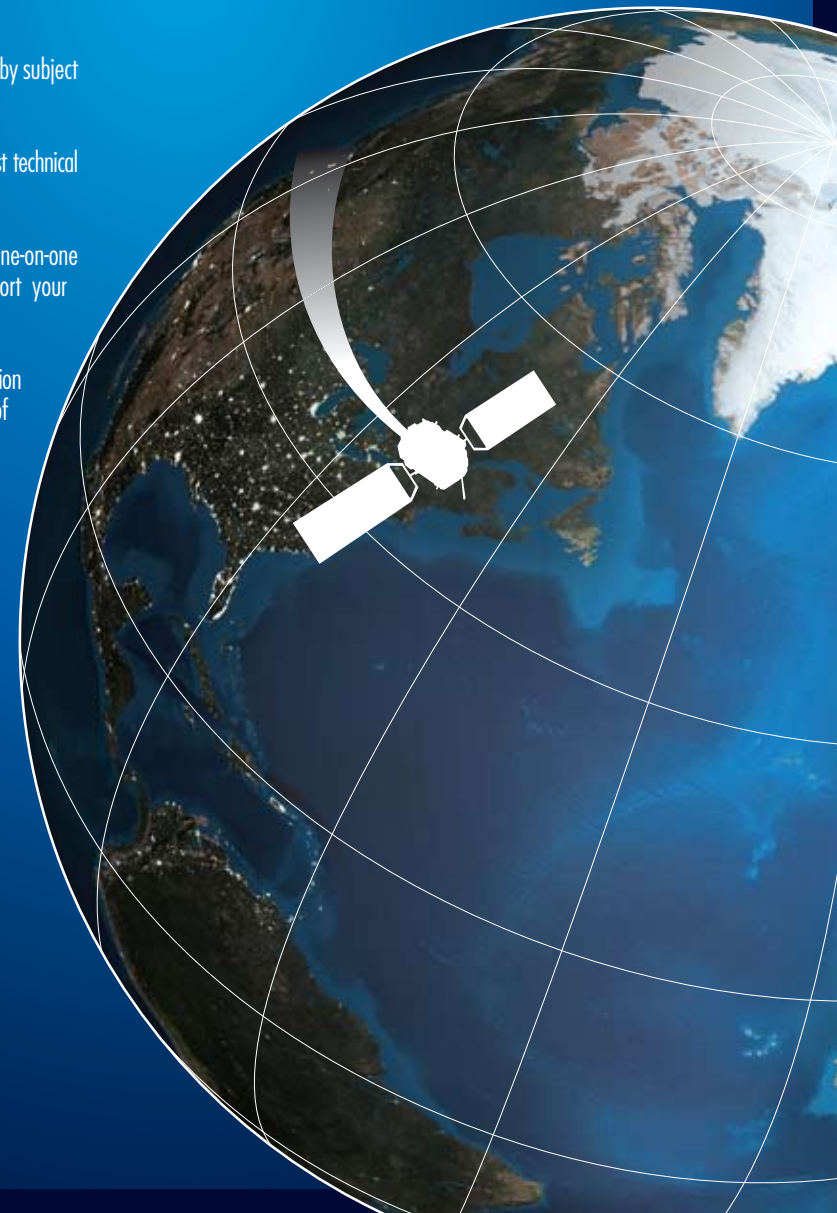
Analysis software for land, sea, air, & space

220 Valley Creek Blvd.  
Exton, PA 19341 USA  
Phone: 1.800.220.4785 or 1.610.981.8000  
N 40 deg 02.330, W 75 deg 35.806

[www.agi.com](http://www.agi.com)



Analysis software for land, sea, air, & space



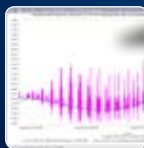
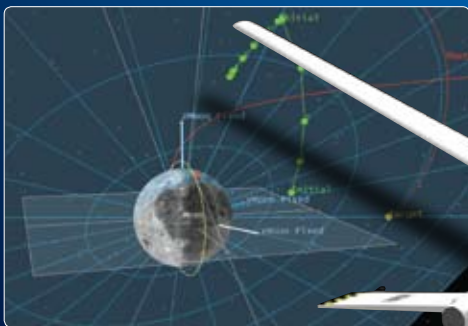


AGI develops commercial off-the-shelf analysis software for land, sea, air, and space that is relied upon by defense, intelligence, and space professionals in more than 32,000 worldwide installations.

Built on a time-dynamic, physics-based geometry engine, the software answers fundamental questions essential to solving dynamic analysis problems including:

- *Where are my assets and how are they oriented?*
- *What can my assets "see" and what can see them?*
- *What is the quality of the relationships?*

In addition to STK, AGI's flagship product, the company produces desktop applications for navigation, orbit determination, and analysis-sharing; the STK Engine (formerly 4DX) for building custom applications; and lightweight components for use in Web applications, servers, and network-centric architectures. All products come with flexible pricing and licensing options.



TECHNOLOGY OFFERINGS

# AGI SOFTWARE OFFERINGS

## DESKTOP APPLICATIONS



### STK SOFTWARE SUITE

AGI's flagship product, STK, performs complex spatial-relationship analysis and models results in one integrated solution. STK's core functionality enables users to calculate position and orientation, evaluate intervisibility times, determine quality of dynamic and spatial relationships, and integrate those capabilities with other desktop applications.



Add-on modules extend STK functionality for communications and radar analyses; maneuver planning; collision avoidance; cumulative coverage analyses; parametric analysis and optimization; complex mission scheduling; and missile systems' design, flight, and interception.



### NAVIGATION TOOL KIT (NavTK)

NavTK software enables professionals in navigation warfare, intelligence, and other disciplines to accurately predict how GPS-dependent equipment will perform in complex operating environments, including those with jamming and interference.



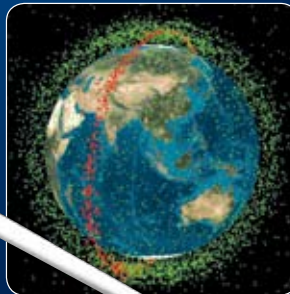
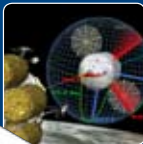
### ORBIT DETERMINATION TOOL KIT (ODTK)

ODTK is used by space professionals who require highly accurate satellite- and tracking-system modeling in an operational environment. It includes a state-of-the-art optimal sequential filter and smoother, and models Earth motion, deep space, and atmospheric environments.



### AGI VIEWER

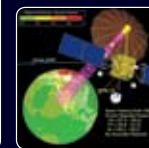
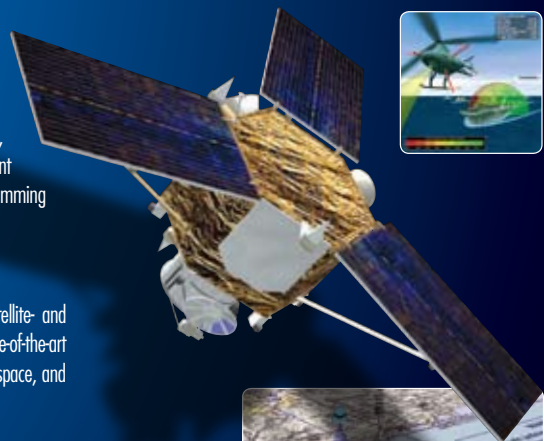
AGI Viewer, a free interactive 3-D viewer of analysis published by STK users, increases workplace coordination and productivity by allowing users to share, modify, and interact with STK scenarios. AGI Viewer files can also be embedded into applications such as Microsoft PowerPoint, Word, or Excel to enhance presentations or program deliverables.



## APPLICATION ENGINE

### STK ENGINE (FORMERLY 4DX)

STK Engine allows software developers and system integrators to quickly and easily embed all or parts of AGI's core capabilities into customized applications. The software is ideal for integrators who wish to develop, deploy, and support mission-specific applications for large programs or third parties. STK Engine users have the flexibility to build their mission-specific workflows and functionality in the software environment of their choice.



## SOFTWARE COMPONENTS

### AGI COMPONENTS

Built on the same proven algorithms as STK, AGI Components are the core functions of AGI software packaged as low-level libraries. They enable users to efficiently and affordably deploy technology across the enterprise and to leverage AGI's analysis and visualization power to build portable thin clients, Web applications, and network-centric architectures.