

## CAST Navigation Creates Brand-New, State-of-the-Art GUI in Record Time

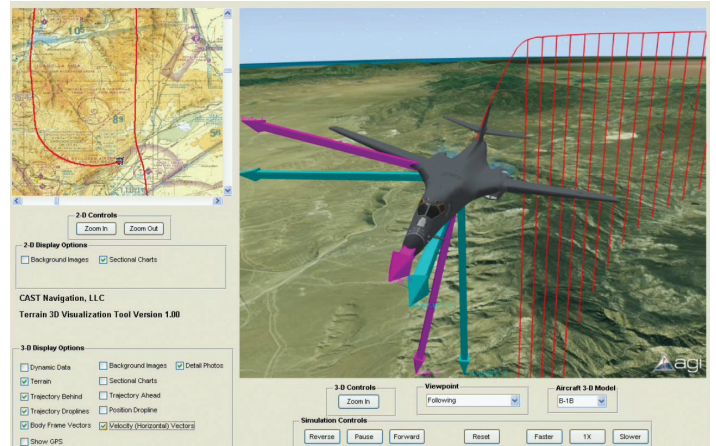
### AGI's STK Engine Dramatically Reduces Product-Development Time

**A TIME-SENSITIVE REQUEST:** CAST Navigation won a contract to test avionics for military aircraft. After 25 years in business, CAST's expertise and equipment in simulation were perfect for the job—with one exception: the legacy software used to demonstrate test results needed to be modernized quickly to meet customer requirements. They had three months to produce a state-of-the-art user interface with high-quality graphics to bring flight data to life. The customer needed to see what was happening during flight simulations and understand how other objects in the environment affected the navigation system.

**STK BRINGS THE SPEED:** At the time, CAST did not have in-house 3D graphics expertise and developing the application from scratch could take years. Furthermore, GIS tools on the market typically did not display motion or altitude well—so CAST chose STK Engine. AGI's development software lets users tap into analytical and visualization capabilities and package them in custom applications. Embedding STK Engine components into their legacy graphical user interface framework; CAST incorporated industry-standard terrain, imagery, and GPS YUMA almanac files. At the same time, they displayed both 2D and 3D visualizations smoothly while providing orientation information in the 3D display.

"We selected STK Engine to upgrade our user interface because STK could handle all the required data types out of the box. It also modeled 3D views impressively, easily produced custom data flows, and—most importantly—could help us deliver the application on schedule. Using STK drastically decreased our development time and significantly lowered development and testing costs. It allowed us to deliver the product in man-months, not years."

— BOB ADDISS, SENIOR SOFTWARE ENGINEER



CAST Navigation used STK Engine to produce a state-of-the-art user interface with high-quality graphics that brings flight data to life.



When CAST Navigation needed a high-quality visualization product in a short timeframe, they added STK Engine 2D/3D controls to their legacy GUI. This resulted in prompt product delivery, drastically reduced development time, and an increased potential for new business.

**A CLEAR VIEW OF THE FUTURE:** STK freed CAST Navigation's engineers to focus on what they do best—providing low-cost, low-risk dynamic navigation simulation systems to military and commercial markets. The customer—impressed by the compelling images and the unexpected smoothness of the interactive visualizations—purchased more units than originally planned. Today, CAST uses their new state-of-the-art interface to attract additional business in the marketplace.