

A CASE STUDY: SIMPLIFYING GEOSPATIAL DATA VISUALIZATION WITH INSIGHT3D

Solution | C4ISR

Challenge:

2d3 wanted to augment its TacitView software application with a 3D component that would provide users a geospatial interface to create geo-queries, view geospatial imagery and platform sensor metadata, and view other map products.

Solution:

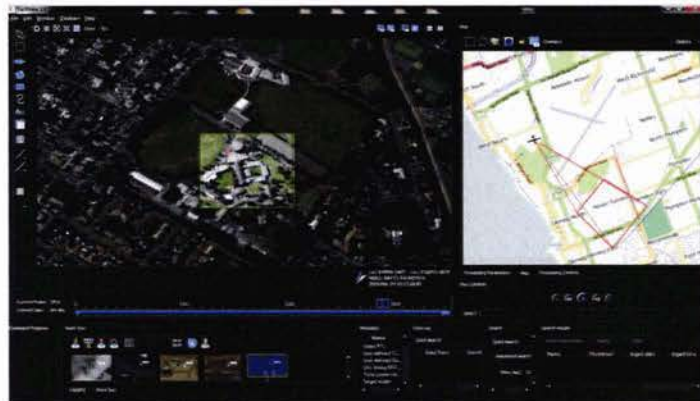
After looking at other commercially available 3D globes, 2d3 selected AGI's Insight3D Visualization Library component for its accuracy, ease-of-integration, documentation quality, company support and graphical capability.

Results:

Insight3D gives TacitView users a rich, interactive 3D globe for easily navigating through geospatial data. Using AGI's off-the-shelf components saved the company time, money and risk.

When 2d3, computer vision experts, and creators of TacitView software, was looking to add a 3D element to its product to enhance the presentation of geospatial data for users, they had a number of commercial off-the-shelf options to choose from. 2d3 quickly realized that not all 3D globes are created equal. While all available globes had their individual advantages and disadvantages, AGI's Insight3D Visualization Library contained the breadth of features they were looking for, and in a package that provided a straight forward integration path for their developers.

TacitView is a software application that provides users with comprehensive video management, editing, enhancement and exploitation tools. It operates on commercial off-the-shelf PC hardware, and can be deployed in fixed installations or on mobile platforms. TacitView can connect to, record and exploit both imagery and platform sensor metadata in real time and post mission. TacitView uses Insight3D to pres-



ent this data and imagery back to the user in a geospatial context. "Insight3D allows us to include a rich, interactive, accurate 3D globe in our software to give our users a way to visualize and navigate geospatial data easily and quickly," says Jon Damush, president, 2d3 Inc. and Ltd.

Insight3D is part of AGI Components, low-level class libraries that provide access to specific AGI analytical and visualization capabilities, in this case high-performance rendering of primitives, inlays and overlays in an accurate 3D environment. Components are ideal for building specialized custom applications, portable thin clients, Web applications and network-centric architectures.

AGI products were selected for TacitView due to their ease of integration, documentation quality, company support and proven graphical capability. Says Damush, "In a fraction of the time required to write our own globe capability, we were able to integrate a fully functional 3D globe capability into our software package." For more information about 2d3 and TacitView, visit 2d3.com.

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— Jon Damush, 2D3



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