



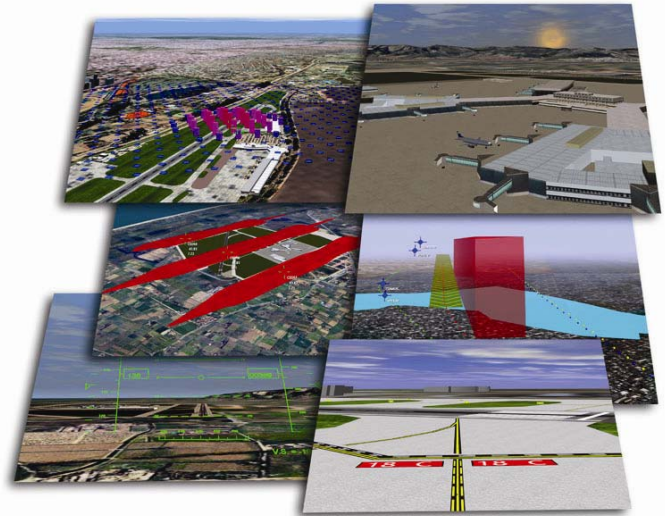
Portable Aviation Visualization Environment (PAVE)

The Portable Aviation Visualization Environment (PAVE) is a 3D rendering system used to visualize multiple data sets in real-time. The basic environment is a collection of digital terrain, aerial photography, and AutoCAD surveys, that are combined to create a realistic 3D representation of an airport and its surroundings. This model is then used as a backdrop to present concepts such as:

- Airport, Runway, and Tower Sighting
- Airport Surface Markings, Signage, and Lighting
- Noise Contours
- Procedure Paths and Waypoints
- Geospatial and Temporal Sensor Data
- Surveillance Coverage Areas, and Threat Analysis

This visualization capability is part of an overall service that The MITRE Corporation's Center for Advanced Aviation System Development (MITRE/CAASD) provides to its customers to aid in the presentation and demonstration of new concepts. It is currently used as a portable capability to present airport surface markings, lighting designs, and Required Navigation Performance enabled approaches in the United States, just to name a few. It has also been successfully used with noise analysis and airport siting. The environment provides the ability to view procedure paths, data points, and/or airport layouts from multiple perspectives. These perspectives range from an aircraft cockpit, tower controller, and ground personnel to virtual views such as high-altitude or "tethered" viewpoints. This flexibility gives analysts, and ultimately our sponsors, the capability to make more informed decisions by examining problems from all sides. The system was developed by MITRE/CAASD specifically for the aviation industry, enabling project specific customization. In addition, the visual databases are

built using high resolution geo-registered data sets to create a state-of-the-art software solution. This software package can be installed and run on a standard desktop computer, with the addition of a high-end 3D rendering card.



For more information, contact:

Fran Hoover
Information Management Specialist
+1.703.983.5912