



S M D C / A R S T R A T
Headquartered on Redstone Arsenal, Alabama



**Future Warfare Center
Decision Support Directorate
Visual Earth Regional Situational Awareness**



The United States Army Space & Missile Defense Command/Army Forces Strategic Command's Future Warfare Center provides continuous personnel support to the Alabama Department of Homeland Security in its effort to develop a 3D visualization program for federal, state, and local government use. In view of this success, the Future Warfare Center formed a Visualization Exploratory Team to initiate a project to utilize new and existing technologies using 3D visualization tools to create a virtual community that allows the sharing of information between military and civilian agencies.

3D Modeling and Visualization Tools:

- ◆ Training
- ◆ Critical Infrastructure Mapping
- ◆ Massive Model Visualization Library Database
- ◆ Visualization of Risks
- ◆ Asset Vulnerabilities and Identification
- ◆ Modeling and Simulation
- ◆ Damage Assessment
- ◆ Common Operating Picture
- ◆ Vehicle and Asset Tracking
- ◆ Integration
- ◆ Situational Awareness and Understanding
- ◆ Modeling and Real-Time Sensor Feeds





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VERSA Products and Services:

- ◆ **A 3D C4I Viewer Displaying Land, Sea, Air, and Space within a Common Operating Picture**
- ◆ **On-Demand Availability of Historical and Near-Real-Time Geospatial Information**
- ◆ **Ability to Be Configured to Aggregate Units Based on Scale of Geographic Area Being Displayed**
- ◆ **Detailed 3D Models of Vehicles, Dismounted Units, and Infrastructure**
- ◆ **Visualization of Spatially Diverse Datasets**
 - **Visualize Terabytes of Geographic Information across Select Networks**
 - **Visualize Spatial Data of Any Projection**
- ◆ **Terrain Base Map**
 - **Geographic Information Systems Services**
 - **Fully Integrable GIS Datasets**
 - **Streaming Digital Elevation Data**
 - **Light Detection and Ranging (LIDAR) Support**
- ◆ **Fusion of Disparate Datasets Into a Common Picture**
 - **View Point, Line, and Polygon Datasets Simultaneously**
 - **Overlay Historical Imagery with Current Imagery**
- ◆ **Static and Dynamic Datasets**
 - **View Near-Real-Time Dynamic Data and Static Data within a Common Picture**
- ◆ **Integration of Non-Spatial Data**
 - **Non-Spatial Data Visualized with Spatial Data within the Same Application**
- ◆ **3D Modeling**
 - **Massive Model Visualization Library Database**
 - **Create/Add 3D Models Manually or Automatically**
 - **Various Model Formats and Resolutions**

