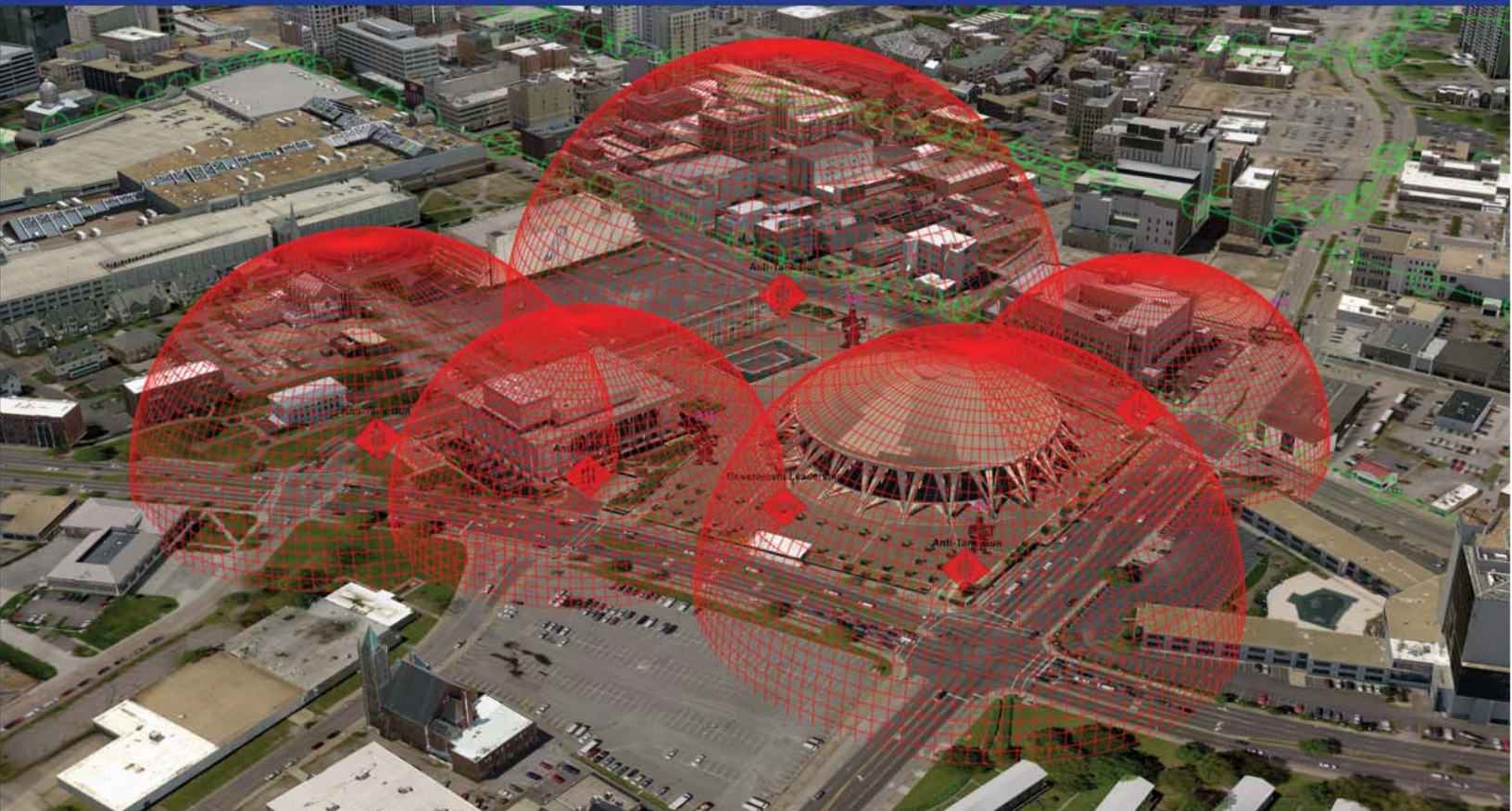




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Tactical Terrain Visualization System (TTVS)

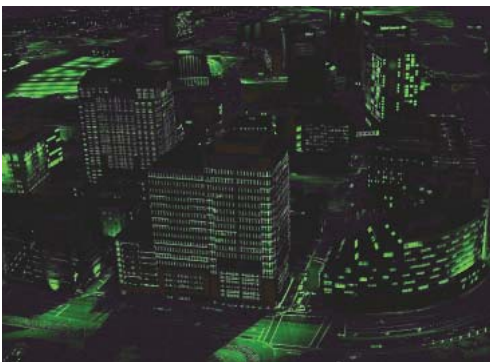
The TOPSCENE program's TTVS, as developed by Lockheed Martin Missiles and Fire Control, supports mission rehearsal for all components of the Department of Defense (DoD). The TTVS utilizes overhead image data from satellites and other sources by converting the two-dimensional images into three-dimensional "fly through" and "walk through" battlefield visualization scenarios.



The TTVS supports mission planning and preview, mission rehearsal and after action review as well as mission training. Using real-world images, Warfighters can repeatedly rehearse a mission, taking advantage of visually significant clues and aim points. By knowing exactly what the terrain and built-up areas will look like during the real mission, the chance of a successful mission is greatly increased. TTVS, with its embedded ability to stop, scale, slew and rotate the image, enables the Warfighter at all echelons to study their mission-operating environment in-depth before actually entering a hostile area. Plus, the TTVS can create a virtual environment from images in about two hours, making it possible to train on "actual terrain" in near-real time.



The TTVS provides photo-based imagery, 3-D terrain and culture, sensor simulation and weather effects, providing high fidelity situational awareness in the tactical mission operating environment over large terrain databases. The many sources contributing to the TTVS databases including, photographic, sensor, and satellite products, are processed by one of the U.S. Government sponsored TTVS Database Generation Facilities. The resulting databases with target data are stored on digital disks and transported to the user. Databases can be remotely updated in the field in near-real time. The TTVS has a highly responsive, operational support system and are deployed worldwide for the joint services.



Currently there are more than 3,500 systems deployed throughout DoD. The U.S. Armed Forces have used the TTVS and databases successfully in support of military missions since Desert Storm.

Features:

- 3,500+ Systems Fielded Throughout the Department of Defense
- Dedicated Database Generation Facility Support Centers
- Rapid Mission Support Updates
- Customer-Driven Software Development
- DIS Compatible



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Visualization and Fusion Systems for the Tactical Edge