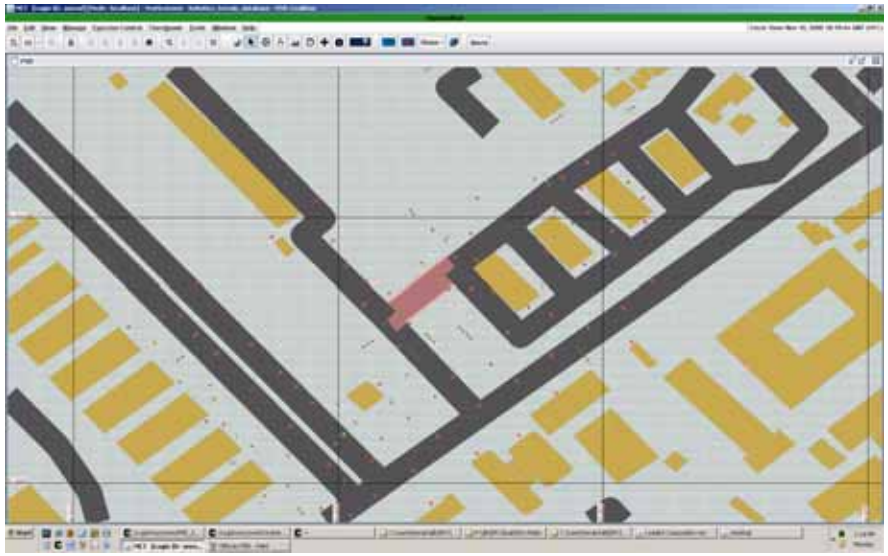
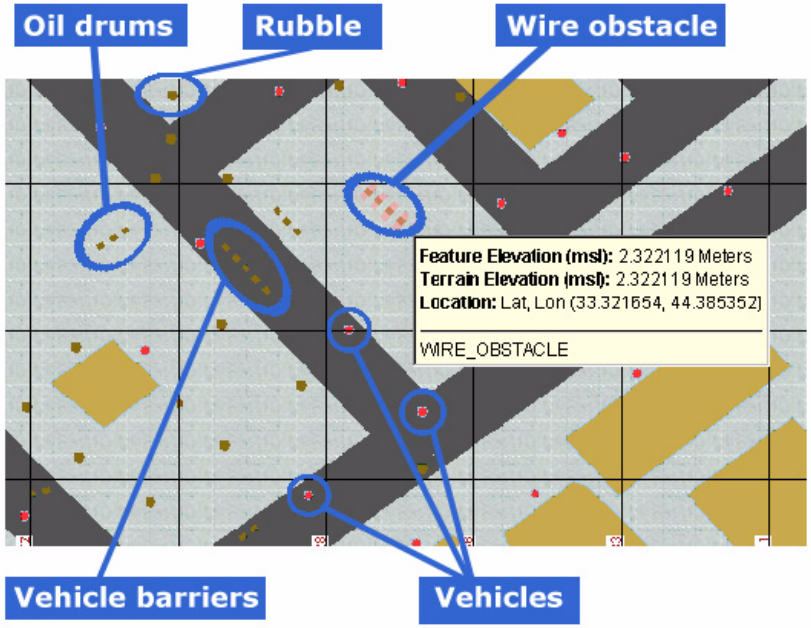
Support for Robotic Scenarios in OneSAF





The OneSAF Robotics team used TerraTools® to produce a novel urban environment for the Robotic Systems Joint Program Office (RS-JPO). This robotics effort required high-resolution urban terrain in order to simulate and demonstrate the various robots' capabilities.

The SWA OneSAF database, which contains over 30,000 unique buildings, was enhanced with urban clutter for the robot scenarios. Over 100 unique urban details, including rubble piles, barbed wire, oil drums, dumpsters, and concrete vehicle barriers, were added to a dense area of SWA. Within this dense search area, robots move along specific search lanes that can contain another lifeform, an IED, and/or the urban clutter. The goal is to demonstrate robotic maneuvers around the urban clutter and through the search lane to perform intended tasks. A successful demonstration was conducted in July 2008, which included various reconnaissance and disposal scenarios.

Left top: *Enhanced urban search area in OneSAF*

Left bottom: *Detail of area with urban clutter*

About TerraSim

TerraSim is a US owned high-technology company that provides software solutions and services for advanced visual simulation and database construction using a variety of geospatial source data. TerraTools®, their primary product, is available for Windows 2000, XP, and Vista.

TerraTools is used in the automated construction of dense urban environments for operations planning and situation assessment as well as to produce exercise databases covering hundreds of one degree geocells. TerraSim also provides database construction services and advanced technology development for both civilian and military customers.

TerraSim's TerraTours® product supports highly interactive geospatial query using 3D visualizations linked to a variety of collateral source data. Using GISLink™ technology, TerraTours users can automatically georeference and display information sources such as still photography, video streams, CAD design data, maps, and any web-enabled document.

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