Ground Truth 360 (GT-360)

(Formerly Tourist)

U.S. ARMY CORPS OF ENGINEERS **BUILDING STRONG®**

Description and Background

The Army Geospatial Center's (AGC) Tourist project was developed jointly with the U.S. Army Rapid Equipping Force (REF). This project provides the Warfighter with easy access to 360-degree geospatial immersive video of select urban combat areas. Data is collected using various 360-degree geospatial video camera systems providing high-resolution, 360-degree, geospatially attributed video. Camera position and orientation information is captured via a highly accurate, differential global positioning system (DGPS) and a sophisticated, inertial measurement unit (IMU). Immersive video places the viewer in the center of a sphere and allows them to visualize the terrain in all directions. The Tourist project has now evolved into a larger collaborative effort to store and serve data from various DoD sources and systems. It has been renamed to better reflect this larger mission and is now referred to as Ground Truth 360 (GT-360).

AGC provides over 300 TBs of data storage and dissemination services for the GT-360 (Tourist) project. This data is posted on AGC's NIPRnet PKI site and SIPRnet sites. AGC has designed the video data dissemination components so users can easily identify their area of interest and retrieve the desired immersive video content. AGC is working to develop new tools that will enable users to integrate GIV data into other existing geospatial products. The initial Tourist data collection covered approximately 7,000 linear miles in Iraq and Afghanistan. Data collections and postings include a variety of terrestrial immersive video data along with some riverine and maritime areas of interest.

GT-360 (Tourist) with its embedded attribution enables the Warfighter to seamlessly look at a location or feature from multiple angles. Since this is recorded data, the soldier can return virtually to the same location, street, or feature and assess it without being subjected to the hazards associated with returning to the site.

This powerful new imagery intelligence tool improves upon current urban battlefield modeling techniques and will lead to increased operational effectiveness and situational awareness. GT-360 (Tourist) data applications include: Mission Planning and Rehearsal, Route Reconnaissance, Intelligence Analysis, Pre-Deployment Training, and Route Mapping. Users are able to custom clip and save selective video viewing points to GoogleEarth.

Example

The photos below are examples of GT–360 (Tourist) data. The user can rotate about the center of the sphere and observe the entire scene.

Example requires Adobe Reader 9

- Click on photo to activate
- Pan within the photo by holding down and dragging the mouse
- Zoom in on the photo by using the slider on the right
- If zooming in using the PDF tools, right click on the photo and select 'Disable Content' and then click on the photo again to activate it.
- Use buttons to toggle photos

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For access to GT–360 (Tourist) data, please log onto the GT-360 (Tourist) through the AGC web sites below:

Point of Contact

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More information is available at:
NIPRNET: https://tsunami.tec.army.mil/Products/TouristProject/index.cfm
(Requires CAC)
SIPRNET: http://www.agc.army.smil.mil/Products/TouristProject/index.cfm