L3HARRIS®
FAST. FORWARD.

GLOBAL GEOSPATIAL DATA SOLUTIONS FOR SIMULATION AND TRAINING

Accurate virtual environments depend on the highest quality geospatial data

L3Harris Geospatial offers the most extensive selection and highest quality imagery datasets for Visual Simulation. Leveraging global partnerships with satellite and aerial providers, we offer the best solutions for project and budget requirements, whether capturing the newest data over specific airfields or providing global coverage up to 50cm. Work with one of our experts to get a detailed comparison of all geospatial data products available, including imagery, elevation, vector feature data, 3-D models, LULC, and material classified maps. Whether it's tasking new satellite imagery collections or searching through available imagery archive, we will work quickly and effectively to make sure you get the right geospatial data products for your specific training program requirements.

"Throughout Aechelon's twenty-one-year history, our company has maintained an unparalleled track record in program deliveries for the US Marine Corps, US Navy, US Air Force, US Army, Special Operations Command, US Government Foreign Military Sales Program and the US Coast Guard, thanks in part for relying on geospatial multi-spectral L3Harris data products."

- Javier Castellar
Co-Founder and Vice-President of Programs for Aechelon Technology

BENEFITS AND FEATURES

> Most cost-effective solutions to meet project technical requirements

> Multi-resolution, multi-sensor, feather blended geospatial datasets

> Conveniently formatted into a ready-to-use product that eliminates user processing time and expense

> Advanced processing and scalable production

> Unbiased solutions for project and budget requirements

> Global partnerships with predominant data providers

> Archived coverage or new, custom data acquisition

> Support for military and commercial programs

> Flexible pricing, delivery, and licensing
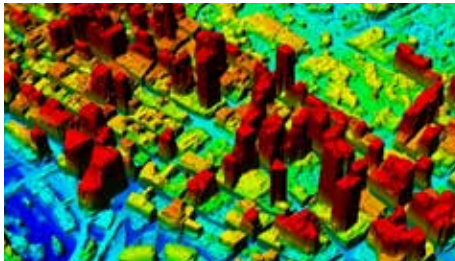
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TRUETERRAIN™ MULTI-LAYER SOLUTIONS

The TrueTerrain correlated bundled stack includes TrueTerrain imagery centered over a specified airfield, digital terrain model elevation data, extracted vectors and features, 3D urban models and multispectral material classified maps. These products are precisely correlated and registered with the accuracy and resolution to meet diverse and demanding simulation market requirements.

TRUETERRAIN IMAGERY

TrueTerrain imagery is created using L3Harris' advanced photogrammetric tools and techniques, which merge and mosaic multi-source, multi-resolution satellite and aerial imagery from five centimeter to 100 meter resolution. Our TrueTerrain imagery is orthorectified, co-registered, pan-sharpened, color balanced and seamlessly featherblended into high-quality visually pleasing orthomosaics that are custom built for clients.

TrueTerrain imagery is delivered with rich XML FGDC-compliant metadata, cutline shapefiles with source data attributes and browse imagery.

ELEVATION DATA

L3Harris' automated processes provide high-detail elevation data for both local and worldwide coverage. Our automated process provides a unique range of accuracy, completeness and surface detail. These elevation datasets can be delivered separately or used by L3Harris in the creation of orthorectified TrueTerrain Imagery products.

Digital Elevation Models can be created using a variety of data sources (satellite, aerial and LiDAR).


3D MODELS

Available as high-fidelity, photo-realistic, textured 3D models or as 3D polygon files, our building models are the industry standard, providing both high levels of detail and accuracy. Derived from overlapping aerial or satellite imagery or LiDAR, models are available in a variety of output formats including 3D shape files, DXF, Geo VRML, VRML, OpenFlight, InReality™ and Maya ASCII. Large areas of coverage are possible using L3Harris-developed proprietary tools utilizing project-specific data or commercially available archived sources. Models are appropriate for demanding 3D modeling applications where accuracy, realism and precision are required.

FEATURE/VECTOR DATA

Custom vector products are extracted from project-specific imagery, maps or archived imagery. Vector layers include both linear networks and boundaries

including roads, rail lines, runways, buildings, coastlines, rivers and cultural boundaries. Both VMAP level 1 & 2, and AMDB ICAO compliant products are available meeting military and commercial specifications. Accuracy and level of detail are selectable based on source data used so that custom projects can meet a variety of user-defined requirements.
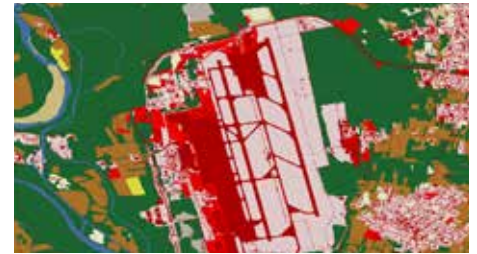
MATERIAL CLASSIFIED MAPS

Utilizing all available spectral bands of image data, our process determines the two dominant materials, as well as the relative abundance of each material, for each pixel in the dataset. Available at the same pixel resolutions and precisely correlated to our TrueTerrain imagery, the material classification dataset is ideal for creating various sensor views to accompany out-the-window views within the Simulation Image Generator. Material classification products can be used to create night vision, infrared and radar visual databases or for mapping high-detail, geotypical textures with real-world accuracy.

For additional information, email geospatialdata@L3Harris.com

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