L3HARRIS®
FAST. FORWARD.

TRUETERRAIN™
MULTILAYER SOLUTIONS

Precisely correlated data layers save you time and money

The TrueTerrain 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 market requirements.

L3Harris has decades of experience providing geospatial solutions for government and commercial customers, including those within the visual simulation and mapping industries. Our experienced staff of imagery scientists and analysts employ a customer-centric, solution-oriented approach, using advanced tools, algorithms and photogrammetric techniques to produce a suite of geospatial products with diverse commercial and military specifications.

L3Harris has global partnerships with many satellite and aerial data suppliers, maintains a vast internal archive of products and offers several flexible licensing options. All of this allows us to meet or exceed a wide range of customized requirements within the desired cost, coverage, schedule and quality constraints of our customers.
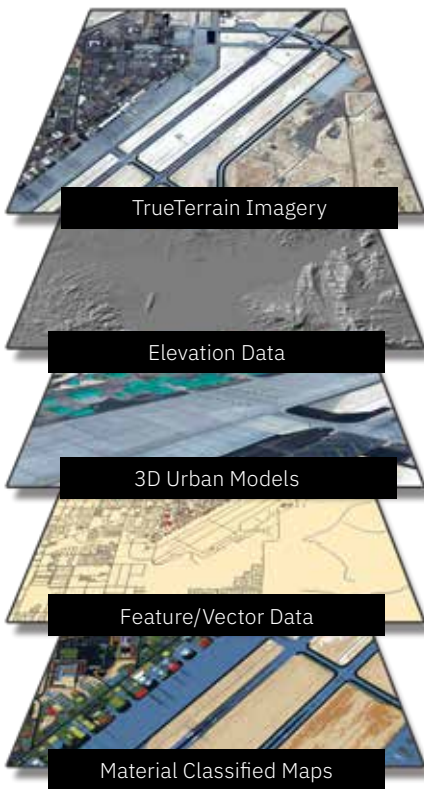
PROGRAM EXPERIENCE

The following are just some of the many programs that we have supported: F-15, F-16, F/A-18, CF-18, F-22, F-35, B-1, B-2, B-52, C-5, C-17, C-130, T-6, T-38, T-45, P-3, CH-47, Blackhawk, Apache and others.

BENEFITS

> Large internal archive of global products readily available

> Flexible licensing to meet your needs

> Customized new products can be supported globally using a variety of source data inputs

> Multiple resolution and accuracy specifications available to support a variety of mission requirements

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TrueTerrain multi-source, multi-resolution feather-blended mosaic

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 feather-blended 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 URBAN MODELS

Available as high-fidelity, photo-realistic, textured 3D urban 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 urban 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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