Customized Data Solution

Intermap Technologies® has been a leader in the aggregation of remotely sensed elevation data for more than two decades. Using advanced sensor systems, an award-winning production process, and robust data fusion capabilities, we provide custom data collection services and 3D mapping products to help you create innovative geospatial solutions for numerous commercial, government, and defense applications.

Key Benefits and Features

**All-Weather Acquisition**
We map anywhere in the world day or night, regardless of weather conditions or cloud cover.

**State-of-the-Art Technologies**
Advanced RADAR, LiDAR, and satellite platforms offer worldwide, high-resolution data acquisition in a multitude of accuracies tailored to your needs.

Any Project, Any Location

No matter your project size or location in the world, we can provide an integrated approach to meet your resolution, accuracy, and geospatial requirements. From our own proprietary airborne interferometric synthetic aperture radar (IFSAR) technology, to customer- or partner-supplied light detection and ranging (LiDAR) technologies — and much more — we utilize any commercially available data source to customize a unique solution for you.

**Fast, Wide-Area Coverage**
We map areas of any size, in a short time frame, saving you money and exceeding your project expectations.

**Seamless Data Fusion**
Our proprietary data fusion process blends data collected from various sources creating a more accurate and useful end product.
**Additional Technologies**

We use a number of commercial airborne and spaceborne Earth observation remote-sensing technologies and platforms to accomplish your custom acquisition. We utilize any commercially available data source to customize a unique solution for you, including, but not limited to:

- Global Digital Elevation Models (DEM)
  - NEXTMap® World 30°
  - Microsoft Global
  - DigitalGlobe® Advanced Elevation Series
  - Digital terrain model (DTM) generation from point clouds
- Interferometric Synthetic Aperture Radar (IFSAR)
- Spaceborne SAR
  - COSMO-SkyMed
- Spaceborne Optical Remote Sensing Platforms
  - DigitalGlobe WorldView 3 (30cm)
  - DigitalGlobe WorldView 2/1
  - DigitalGlobe IKONOS
  - DigitalGlobe GeoEye
- Spaceborne Optical Remote Sensing Services
  - DigitalGlobe Global Base Map
  - Digital Globe First Look
- Airborne Optical and LiDAR
  - DigitalGlobe Precision Aerial
  - Microsoft UltraCam
  - Local providers as required

**Featured Technology: IFSAR**

Intermap offers three core IFSAR products that include a digital surface model (DSM), digital terrain model (DTM), and orthorectified radar image (ORI). Intermap's DSM and DTM both have 5m postings and a vertical accuracy of 1m RMSE (1.65m LE90) in unobstructed regions with slopes less than 10 degrees.

- DSM – A first-reflective-surface model that contains elevations of natural terrain features in addition to vegetation and cultural features such as buildings and roads.
- DTM – A bare-earth model that contains elevations of natural terrain features such as barren ridge tops and river valleys. Elevations of vegetation and cultural features, such as buildings and roads, are digitally removed.
- ORI – A grayscale radar image of the earth’s surface that has been corrected to remove geometric distortions caused by the terrain. The ORI has a 0.625m resolution and a horizontal accuracy of 3m CE90.