**INTERMAP**
Answers Now™

# Custom DTM

## Sensor Agnostic DTM Generation

## Derive a Custom DTM from any Elevation Data

Intermap has delivered over 15 million km$^2$ of Digital Terrain Models (DTMs) using its advanced tools and processes. Dataset from different sensors with varying formats, spatial reference systems, and resolutions can be fully edited to a uniform DTM. Using a combination of artificial intelligence and a proprietary 3D stereo editing environment, highly trained editing staff remove first surface features such as trees and buildings, hydro-enforce all water features, and perform an in-depth quality control check by visually inspecting every pixel in 3D. This approach is universal and can be used to create seamless terrain models from any sensor.

## Key Benefits & Features

### Sensor Agnostic
Works with data from any sensor type, i.e. Radar, LiDAR, ADS40 optical, etc.

### Seamless
Align and combine input data to create seamless data across large areas.

### Proven Capability
Delivered >15 million km$^2$ of DTM data, often exceeding client expectations.

### Hydro Enforced
Water bodies and coastlines are flattened and corrected for accurate measurement.

### Improved Accuracy
Use a foundation dataset to remove spatial errors in input data and improve accuracy.

### Cost Effective
Automation and a proven process enable a cost effective and reliable solution.

## Proven Geospatial Expertise

Intermap has developed proprietary, industry leading, and high volume geospatial production capabilities specializing in elevation data delivering over 16 million km$^2$ of fully edited DTM around the globe that exceed client requirements. Projects include multi-year awarded contracts to provide custom DTMs from raster and point cloud data to major governments and commercial companies.

## Multiple Sensors

Data from multiple sensor types, including Radar, LiDAR, and optical, is converted to a consistent format and combined into a seamless dataset using Intermap's DEM Fusion system. The system supports multiple file formats and spatial reference systems, including raw strip data and point clouds. Reference data, such as Intermap's NEXTMap One, is used to correct systematic spatial errors such as bias, tilt, and warps and ensure a seamless resulting DEM.

## Automation and Quality

Intermap has invested in automation to facilitate large scale geospatial processing and quality control. Automation results in a reliable process to create high quality custom DTMs.
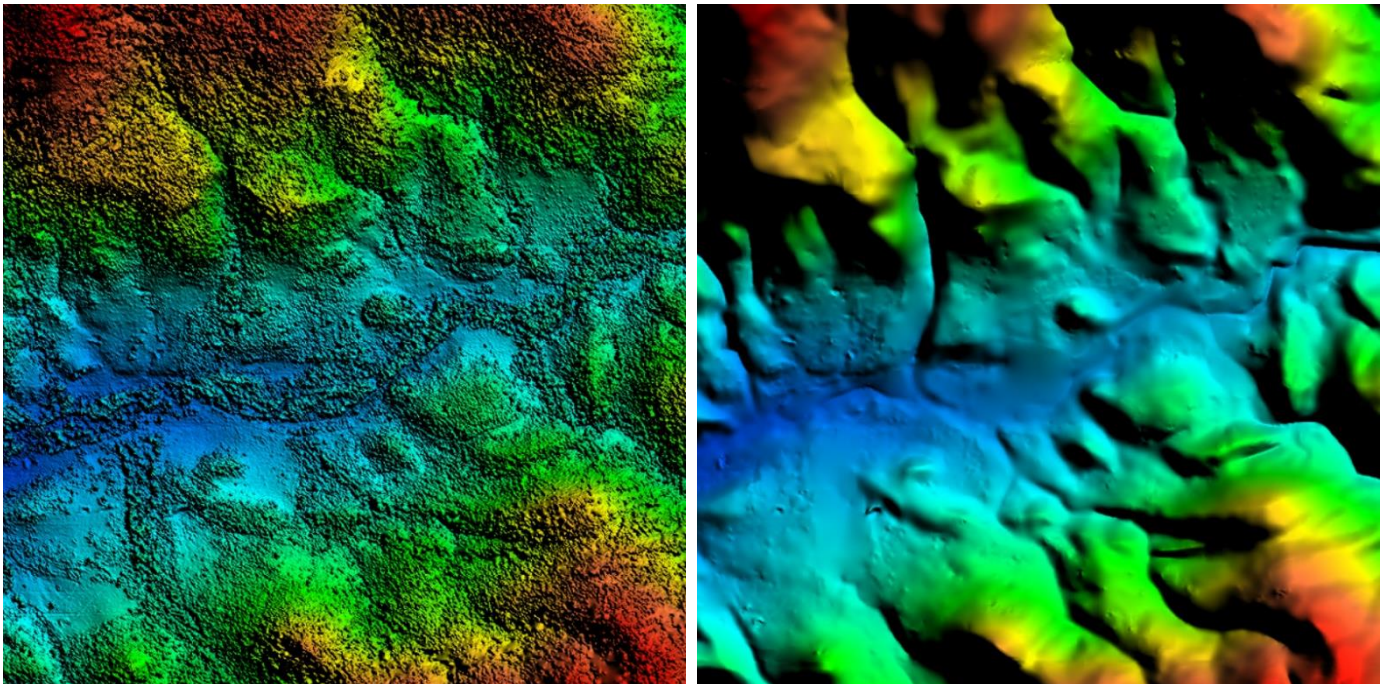
*DSM (left) forest surface features have been removed in the generation of the DTM (right)*

Intermap's DTM generation services are available now. Contact Intermap to access free demo datasets and analytics today!