

# Custom DTM

## Custom DTM from any Sensor Technology

### Custom DTM Process

Intermap provides its clients with custom Digital Terrain Models (DTMs) from ADS40 LAS formatted point cloud data. The approach is unique in that it does not rely on classification of the LAS points. Instead, Intermap utilizes its proprietary 3D stereo editing environment along with highly trained editing staff to 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 the DTM in 3D. The overall process also includes inspection of all input raw data, conditioning of the data to allow format and projection standardization, alignment of the raw strip data to ensure seamless strip data, and fusion of the final data to ensure continuity to previously processed areas. As a final step, the vertical adjustment is applied to the raw LAS point data files to ensure both the final DTM and LAS files are in alignment. This custom DTM approach is universal and can be used to create seamless terrain models for any sensor.

### Key Features and Benefits



#### Custom DTMs from any Sensor

Benefit from Intermap's custom Digital Terrain Models (DTMs) created from any sensor technology.



#### Long History of Geospatial Expertise

Intermap has a long history of developing and perfecting its proprietary, industry leading, and high volume geospatial capability to exceed its client's requirements.



#### Homogenous Seamless DTMs

Intermap leverages its proprietary DEM Fusion system to combine multiple datasets of different resolutions and sensors to create seamless and homogenous products across large areas.

## Built on a Long History of Geospatial Expertise

Intermap has developed proprietary, industry leading, and high volume geospatial production capability through its long history. Leveraging this expertise, it has been able to apply approaches that meet and exceed its client's requirements. For example, Intermap was able to successfully win a multiyear series of awarded contracts to provide custom DTMs from raw ADS40 LAS point data to a major government. This specific client selected Intermap's approach over numerous other bids and technologies who employed ordinary methods.

## Large Scale Automation and Homogeneous Seamless Datasets

Intermap's has invested large effort and expense into improving and automating its production systems and processes to facilitate large scale geospatial processing and quality control. We have received praise from our clients on the value of the delivered products with emphasis on the homogeneous and seamless quality of the datasets. Intermap employs its proprietary DEM Fusion service to optimally combine elevation models from different sources into a seamless dataset. This is a key differentiator.

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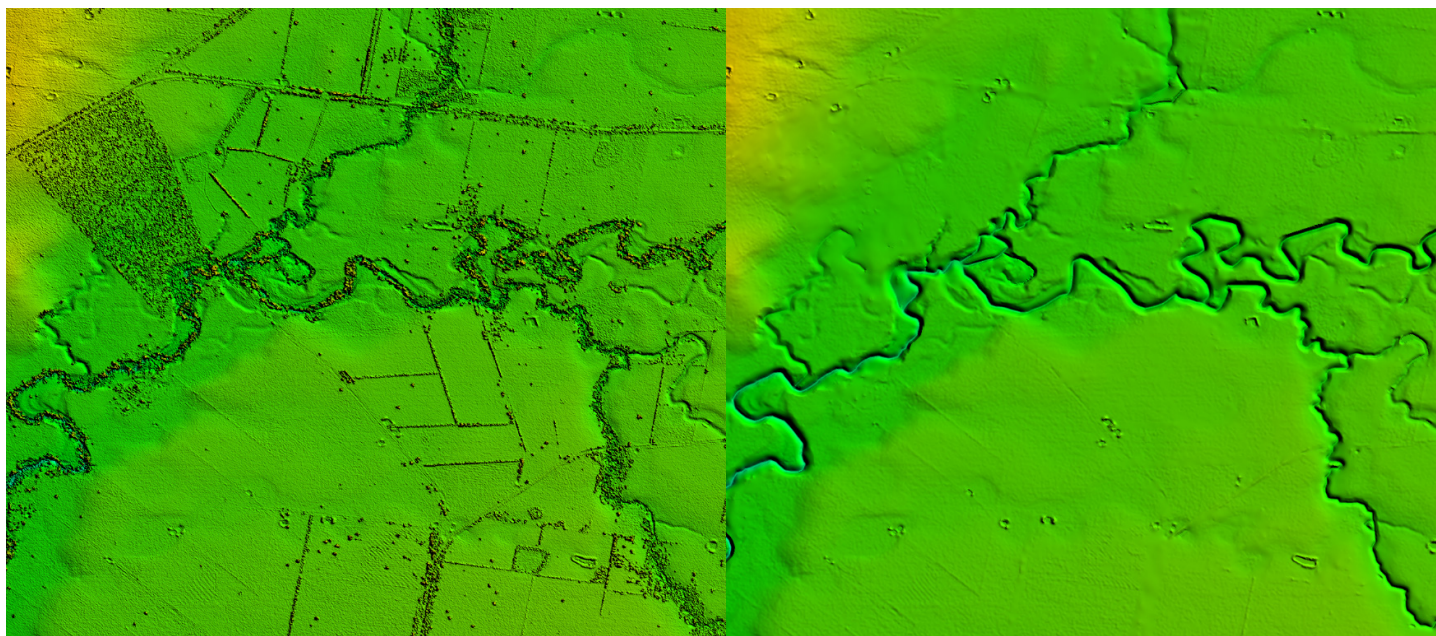
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*DEM Comparison: a DSM (Digital Surface Model) on the left and a custom DTM (Digital Terrain Model) on the right.  
Note how much easier to interpret the custom DTM on the right is with the surface features removed.*