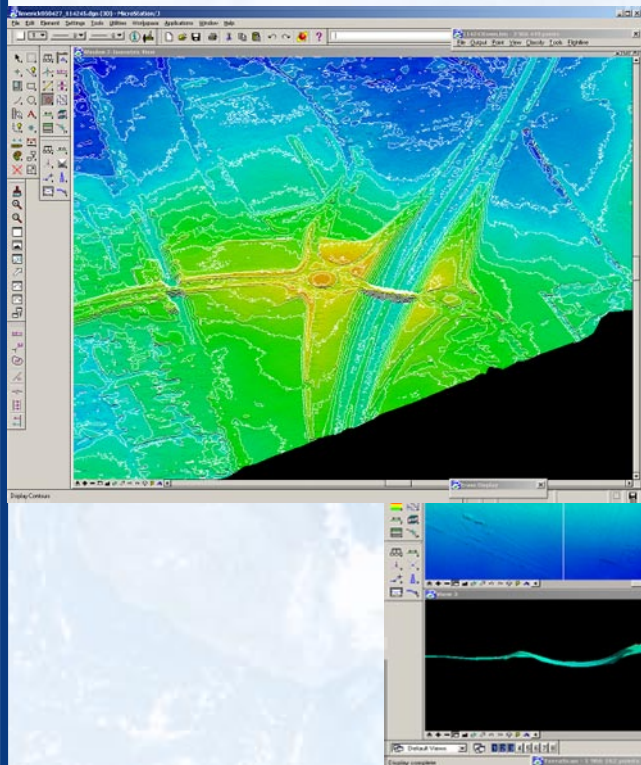
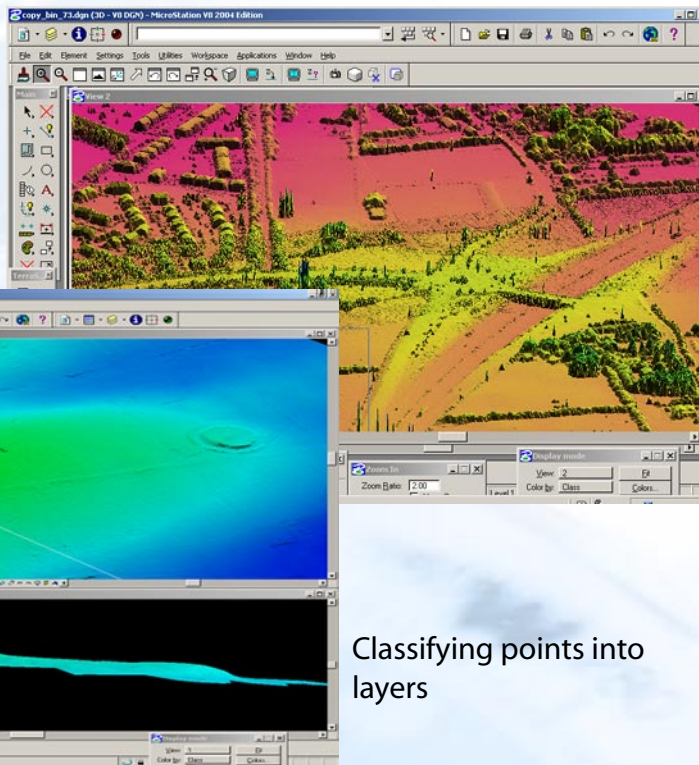


## Highly Accurate Digital Terrain Models (DTM) or Digital Surface Models (DSM)

DTM



DSM



**Description:** LiDAR is a remote sensing technology that uses laser scanning to collect height or elevation data. The Laser scanner used in OSi is an airborne Leica ALS50. The laser scanner emits 150,000 pulses every second creating a point cloud of millions of pixels collected in X,Y,Z (easting, northing and height).

After capturing the raw point cloud each point is then classified into different layers i.e. Ground, Buildings and Vegetation. The final outputs from the point cloud are either a Digital Terrain Model (DTM) or a Digital Surface Model (DSM). These outputs are of high accuracy and give vertical accuracies between 15cms to 25cms depending on terrain.

**Data Series:** Lidar data captured between 2006 and 2008.

**Coverage:** Selected coverage of major cities and areas (Republic of Ireland).

**Specifications:** Urban Specification: DTM/DSM 2 metre posting 25cms Vertical Accuracy  
Rural Specification: DTM/DSM 10 Metre posting .5m Vertical Accuracy  
Corridor and custom contracts to customer specification.

**File Formats:** Supplied in Irish Transverse Mercator (ITM) or Irish Grid (IG) in ASCII file format.

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