



New Features in TerraScan

What's New in Terrasolid Feb 2018 Webinar 22 February 2018

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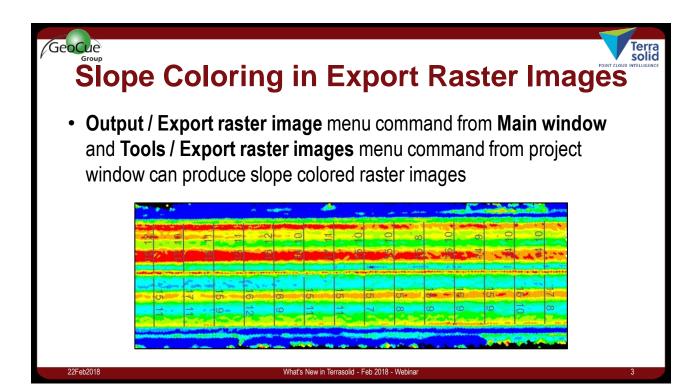
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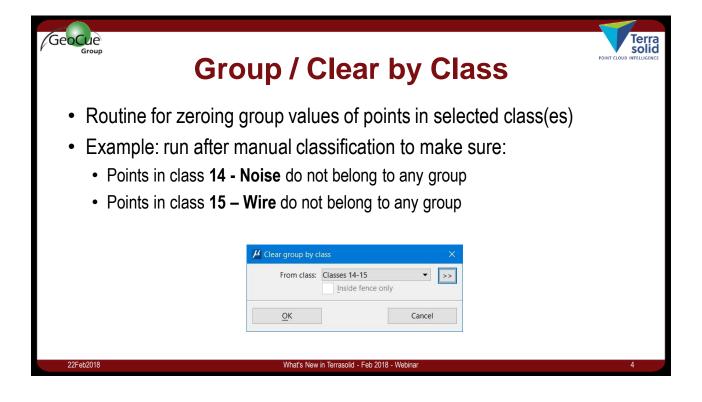




Import Scanner Positions for Trajectories

- File / Import scanner positions menu command in Manage **Trajectories** reads scanner positions from a text file
- Use with standing still scanner data
- Reads space delimited text file(s) which have fields:
 - ScanNumber Easting Northing Elevation
- Makes it possible to use TerraScan tools which require scanner position information
 - Classify / By range
 - · Cut overlap



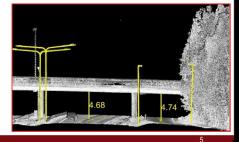






Label Clearance

- Tool for labeling clearance of bridges, overhead wires or other features
- Places a label (and optional vertical line) at point which has the smallest distance value inside each selected polygon
- Workflow:
 - Run Compute distance to compute height from ground for points
 - · Draw polygons for places to examine
 - One polygon for each bridge
 - Or one polygon for each lane
 - Select polygons and run Label Clearance

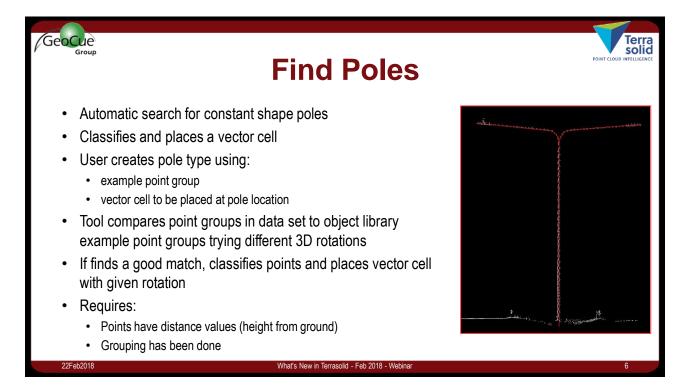


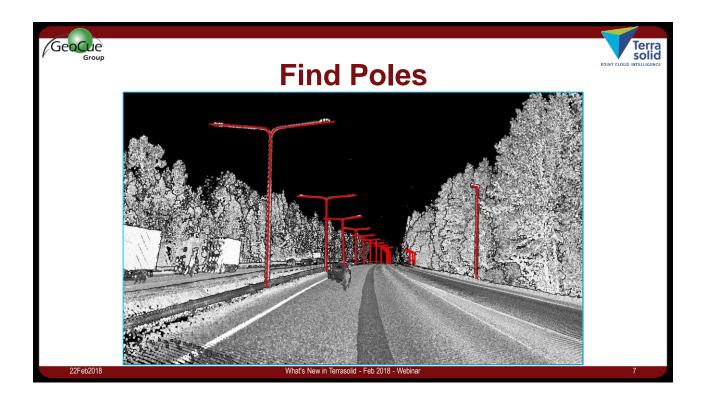
Decimals: 0.12 ▼

Rotation: Cross section

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Find Curb Along Element

- Requires an approximate 2D line string running along curb stone
- Creates longitudinal breakline vectors along sharp edges
- Workflow:



- · Classify model keypoints from ground
- Create TIN model and display as shaded surface
- Place approximate 2D line strings along curb stones
- Select approximate line strings and run Find Curb Along Element

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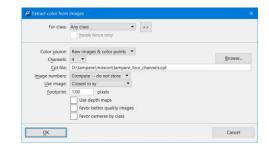






Up to Ten Color Channels

- Extract color from images can now extract up to 10 channels of color information
- Color storage:
 - TerraScan binary can store 3*8 bits
 - LAS 1.2 can store 3*16 bits
 - LAS 1.4 can store 3*16 or 4*16 bits
 - Fast binary can store 3*8 or 3-10*16 bits



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Vegetation Index

- TerraScan supports two types of vegetation index:
- Normalized Difference Vegetation Index = NIR R

 NIR + R
- Visual Band Difference Vegetation Index = 2*G R B2*G + R + B

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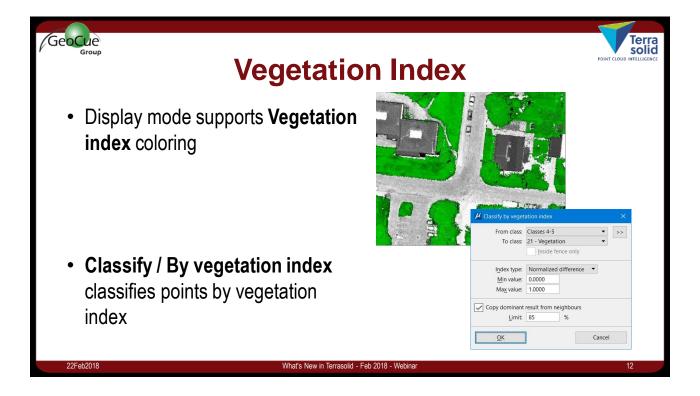
Vegetation Index

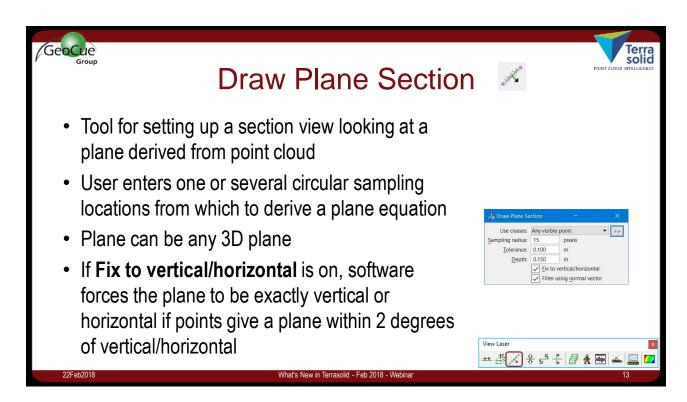
- Both indexes give values between -1.0 and +1.0
- NDVI requires near infrared color information but gives very good separation between green vegetation and other objects
- Visual Band Difference works with normal visible RGB channels

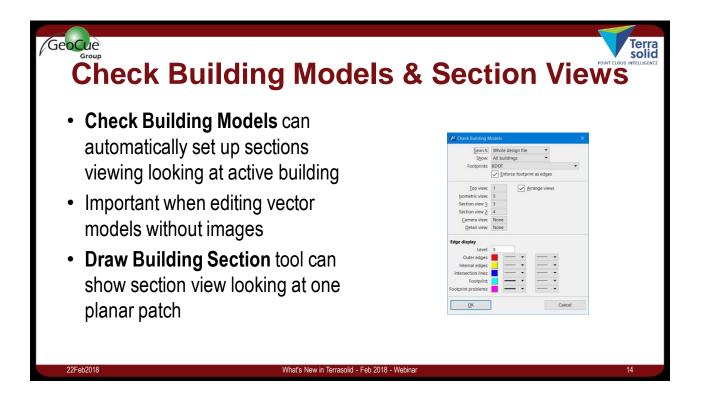
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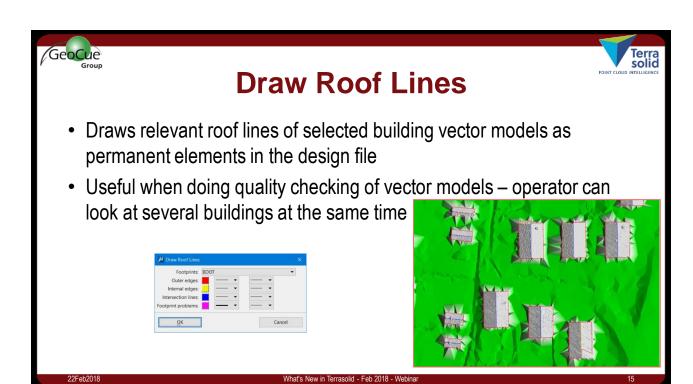
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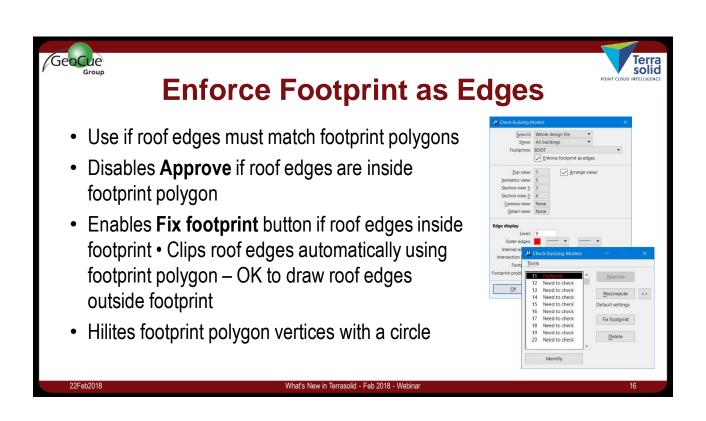
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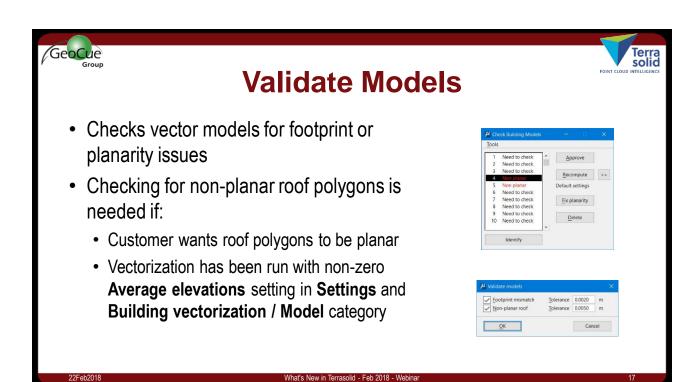


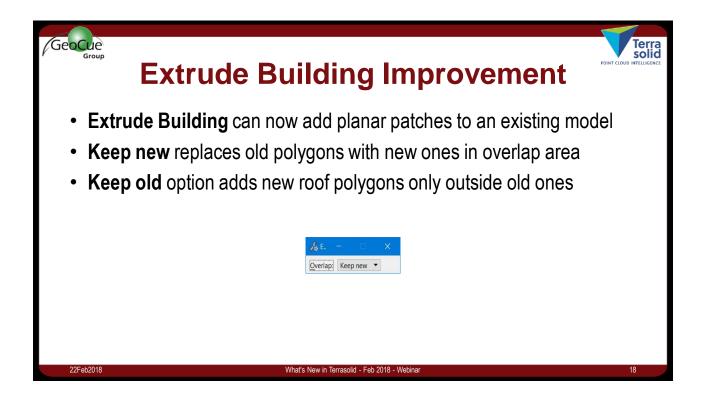
















Apply Plane Symmetry

 Forces plane equations, base directions and/or slope angles of planar patches to match



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Various Improvements in Editing Buildings

- Set All Edges can modify a single patch
- Modify Edge has new options Along Closest Line, To base 90 deg angle and To intersection
- Insert Edge Vertex has new option Base 90 degree angle and To intersection

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