

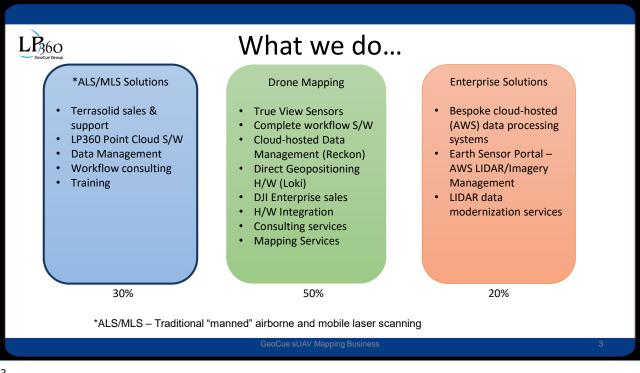




GeoCue Group Background

- Founded in 2003
 - Jim Meadlock, founder and 30+ year CEO of Intergraph
 - Lewis Graham, founding CEO of Z/I Imaging
- Located
 - HQ Huntsville, Alabama USA
 - Satellite office Toronto, Canada
- Ownership
 - Private
 - Jim, Lewis, employees, minority outside investors
- Our Focus LIDAR and Imagery technology
 - Providing geospatial processing solutions close to the sensor
 - Providing data management solutions
 - Providing end-to-end drone mapping solutions



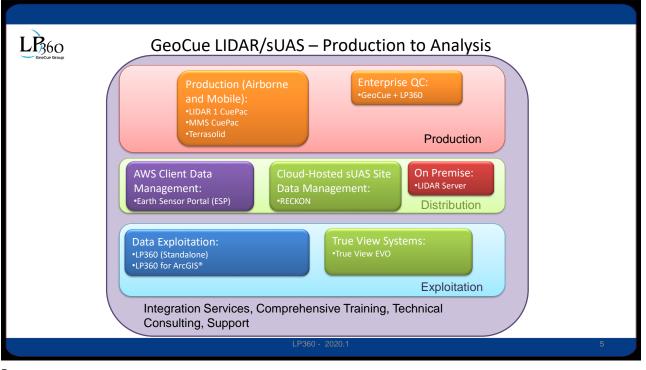


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LP360

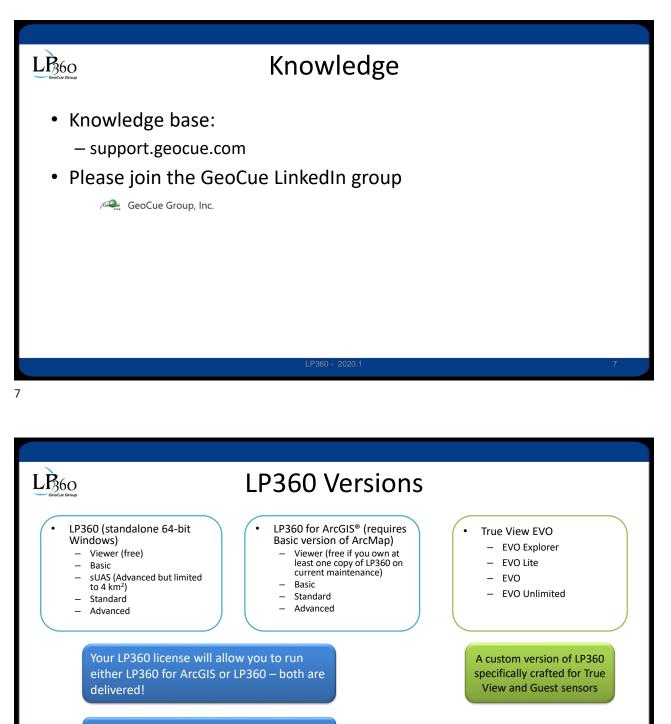
ALS/MLS Business Area

- GeoCue Group is the largest supplier of *Production* LIDAR tools, geospatial workflow management systems and LIDAR production consulting services in North America
- LP360 (standalone) has become the best Windows (standalone) desktop application for Point Cloud Exploitation (both LIDAR and Structure from Motion, SfM)
- LP360 for ArcGIS[®] is the world's most prevalent and highest performance LIDAR extension for ArcGIS[®]





LP360 Grocue Group	Who uses LP360/Topolyst? (This is a sample- we have hundreds of users around the globe)				
	 AECOM Alabama Power Alaska Dept. Of Fish & Game Alberta-Pacific Forest Industries Atlantic Group Atlantic Group Atlantic Group Atkins North America, Inc. Ayres Associates Central Texas Council of Governments California DWR USSA Corporation USSA Corporation USSA Comporation Gavernement du Quebec Harris Corporation Harris Corporation Lower Colorado River Authority Harris Corporation Lower Colorado River Authority Manitoba Hydro MeadWestvaco Moxing Creed Moxing C				
	LP360 - 2020.1	6			



LP360 2020.1 is compatible with ArcGIS[®] 10.1 through ArcGIS 10.8

P360 - 2020.1

LP360 Geodus Group	Localizable	
 Currently localized to English Chinese Japanese Spanish Polish 	:	
	LP360 - 2020.1	9

New Features – LP360, LP360 for ArcGIS $L\dot{P}_{360}$

- Live View:
 - Blend Classification mode blend one or more classifications into a display mode set other than classification. Example, view LAS by RGB for all points not classified as ground
 - Manual Update mode added
 - Display by User field great for diagnosing multibeam scanners
 - Edge of flight line Boolean filter
 - Color Band and Stretch added to Color Tab
 - Single row "radio button" select/deselect added to improve QC processing (e.g. rotate through flight lines)
 - New Point Cloud Tasks (PCT):

 - Proximity Classifier PCT to classify points based on the attributes of a proximal point Affine Transform LAS PCT (New home of shift/scale/rotate options formerly found on the Reproject LAS PCT) Reproject LAS PCT used to transform a LAS to a new horizontal and/or vertical spatial reference system (SRS)
 - LAS Data Smoothing PCT
- New Cloud Optimized GeoTIFF output raster format
- Standard Deviation of the Mean (SDOM) and Standard Deviation (Sz) added to the Control Report dialog
- Control Report honors type for reporting
- Quick grid option added to profile properties to help quickly set Graticules properties
- Multi-threading is now used to speed up the processing of the Height Filter, Model Key Point, Low/Isolated Points, and Building (Planar) PCTs
- Modified Ground Adaptive TIN PCT to handle dense point clouds
- Added a wait and retry for license option to command line executables
- Numerous bug fixes and stability improvements



New Features – LP360 Only

- Support for camera imagery added to Feature Analyst (currently implemented for True View sensors)
- Export QC Features and Vertices tools added to Feature Analyst
- New file types supported for Feature Import. Now supports SHP, DGN (v7 and v8), DXF, KML/KMZ, and DWG.
- New file types supported for Feature Export. Now supports SHP, DGN (v7 and v8), DXF, KML.
- New export RGB attribute option to create Red-Green-Blue raster images from colorized LAS points. Available in Point Insertion and TIN surface options.
- Display Map Grid option to overlay a simple grid on the Map View.
- TOC right-click menu "Open in Explorer" command to open the location of the layer's files in Windows Explorer
- Top of Seawall Collection Tool on the Feature Edit toolbar for collecting the top of seawalls
- Export LAS/LAZ/PRJ right-click menu in the table of contents commands
- Close Project command
- · Control Report contains sensor and calibration information for a True View project
- TOC right-click Delete Files now allows deletion of all file types

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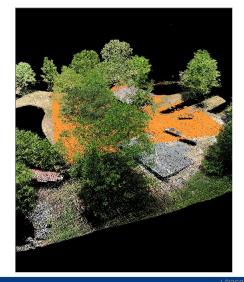


Focus of 2020.1 Update

- Improved sUAS tools
 - Improved processing of very dense point cloud data
- Data Smoothing Filter
- Improved visualization tools
- New Feature QC Export tools
- Focus on performance
 - Continued Multithreading Point Cloud Tasks
 - Rewrote some algorithms to improve dense cloud processing



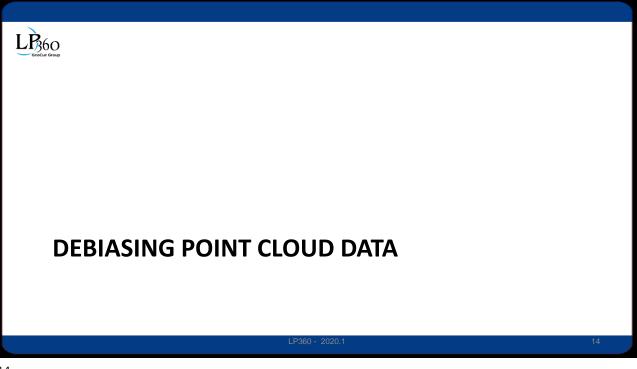
Demo - Class Modulated Visualization

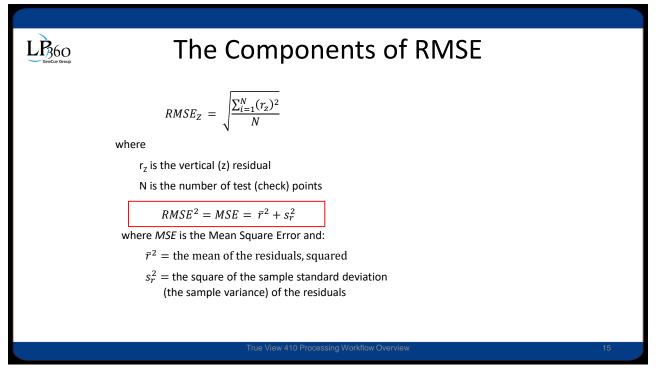


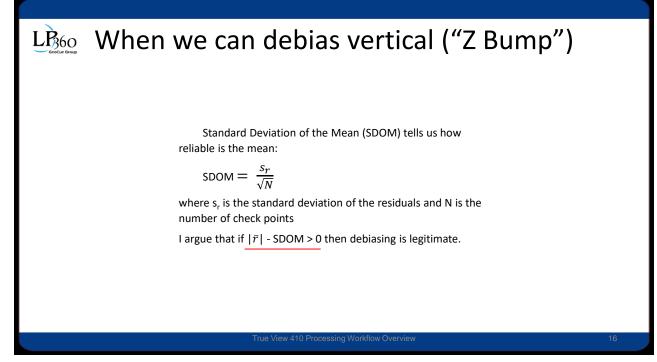
Live View:

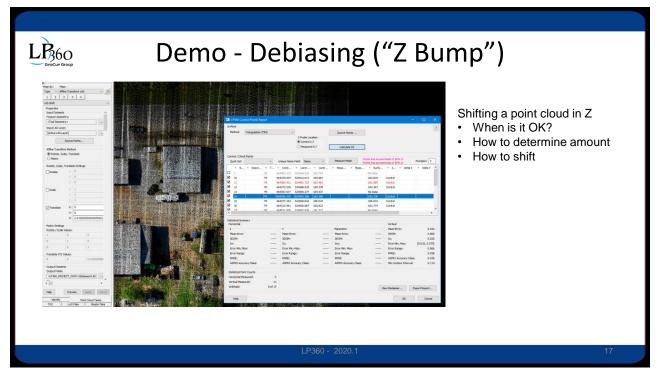
Allows superimposition of selected classes over any other display mode

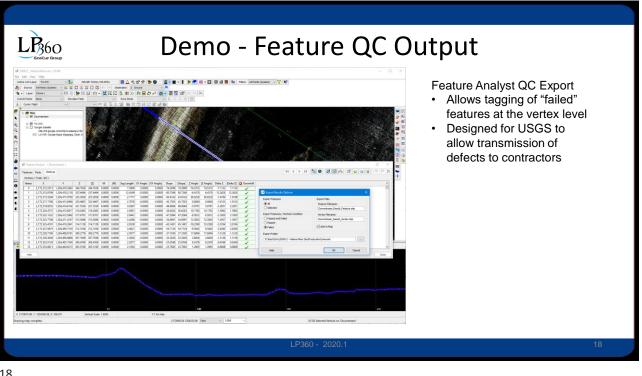
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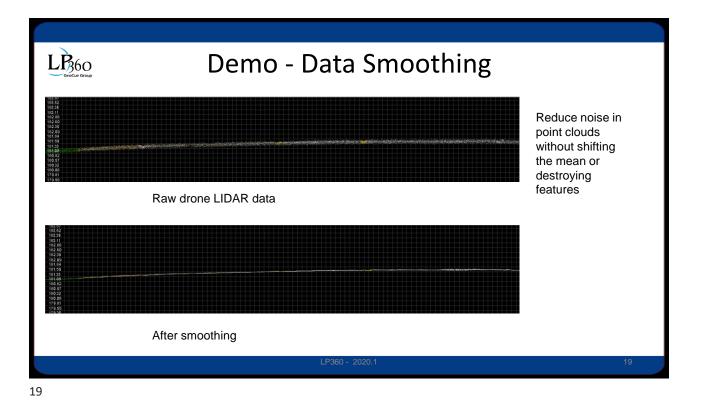














LP360 Geocue Group	Summary	
• LP360 for work in A	r ArcGIS [®] remains a <i>requirement</i> for serious point cloud ArcGIS [®]	,
	e not started a port to ArcGIS Pro as ESRI has not yet released a ntegration" API	
 LP360 (st for anyor 	candalone) provides an immediate Return On Investment ne:	
– Doing la	arge area QC ow includes vector QC!!	
– Collecti	ing breaklines and other features from Point Cloud Data	
	sential tool for anyone doing high accuracy sUAS site ng/volumes	
	LP360 - 2020.1	21
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