GEOSYNC
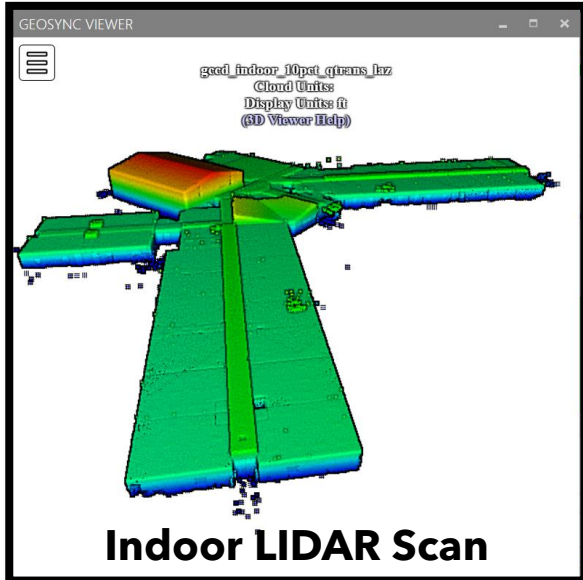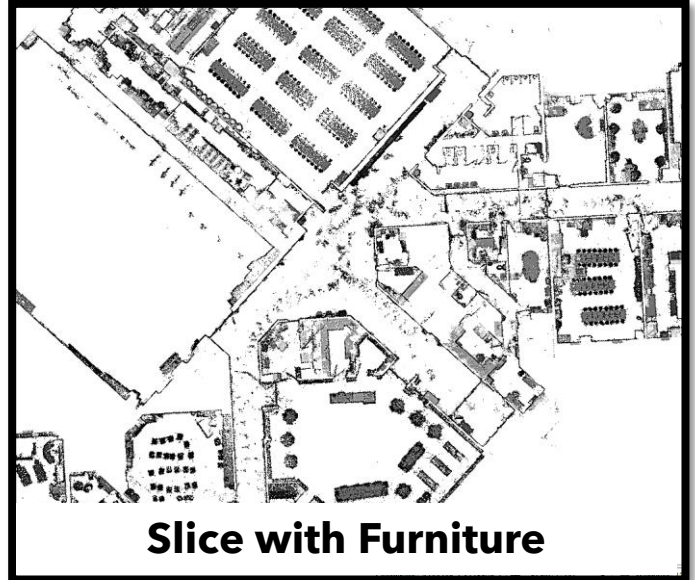
Point Cloud to GIS Floor Plan

…slice indoor scans to create floor plan GeoTIF
…geo-reference and create room layer

Included with Base GeoSync Subscription

1 Z-Tools User . 1 Cloud Publisher User . 10 GB Storage . 10 Cloud Projects

GEOSYNC VIEWER

geed_indoor_10pct_qtrans_laz
Cloud Units:
Display Units: ft
(3D Viewer Help)

Indoor LIDAR Scan

Slice with Furniture

Using Z-Tools

- ☐ Process data on your local computer
- ☐ Quick and easy
- ☐ Utilize Interior Scan (LAS)
- ☐ Merge into single file
- ☐ Scale as needed (i.e. meters to feet)
- ☐ Georeference (Optional)
- ☐ Slice based on elevation
- ☐ Output GeoTIF (GIS / CADD Ready)
- ☐ Dimensionally accurate
- ☐ **Send to GIS or CADD**
- ☐ **Share using GeoSync Cloud**

Clean Slice Walls Only

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Lewis Dixon: ldixon@cdpengineers.com

GEOSYNC

Point Cloud to GIS Floor Plan

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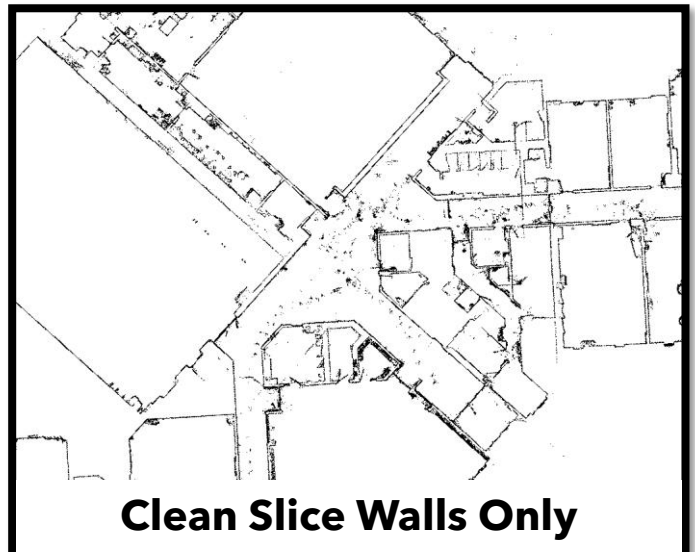1 Z-Tools User . 1 Cloud Publisher User . 10 GB Storage . 10 Cloud Projects

Work Process Wizard – Step by Step

GeoSync Workflow

| Setup | UAV Data | Indoor Data | Georeference | Floor Slices | Notes |

Setup steps for Indoor Scan Data

Indoor Merged Point Cloud (RAW)

`gccd_indoor.laz`

Indoor Merged Point Cloud (Units Good)

`gccd_indoor_100pct.laz`

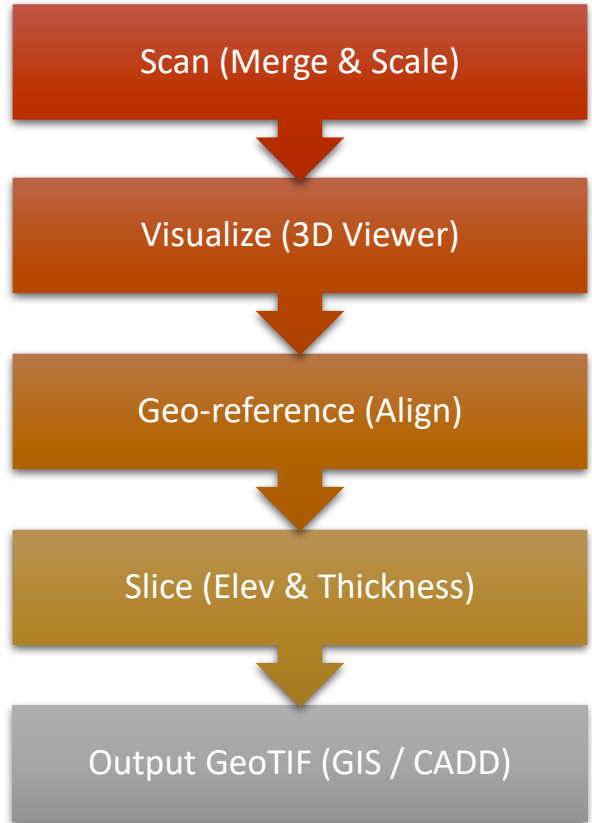☑ Indoor Point Clouds Merged into Single LAZ

☑ Indoor Units OK

☑ Indoor 10% Created and Published (_10pct)

☑ Indoor 50% Created and Published (_50pct)

First Floor Elevation - Indoor Scan

`-0.95`

1) Merge LAS Scans into a single LAZ (if needed)
2) Scale merged LAZ - meters to feet (if needed)
3) Record merged file names - place in work folder
4) Decimate merged to 10% and rename
5) Decimate merged to 50% and rename
6) Create 3D View of decimated indoor 10% LAZ
7) Determine first floor elevation (Z) of indoor scan

Scan (Merge & Scale)

Visualize (3D Viewer)

Geo-reference (Align)

Slice (Elev & Thickness)

Output GeoTIF (GIS / CADD)

Interactive 3D Model

❑ **Indoor Scan**
❑ **UAV Point Cloud**

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