

# 360 Hotspot Builder Overview

## 2020

### 360 Hotspot Benefits...

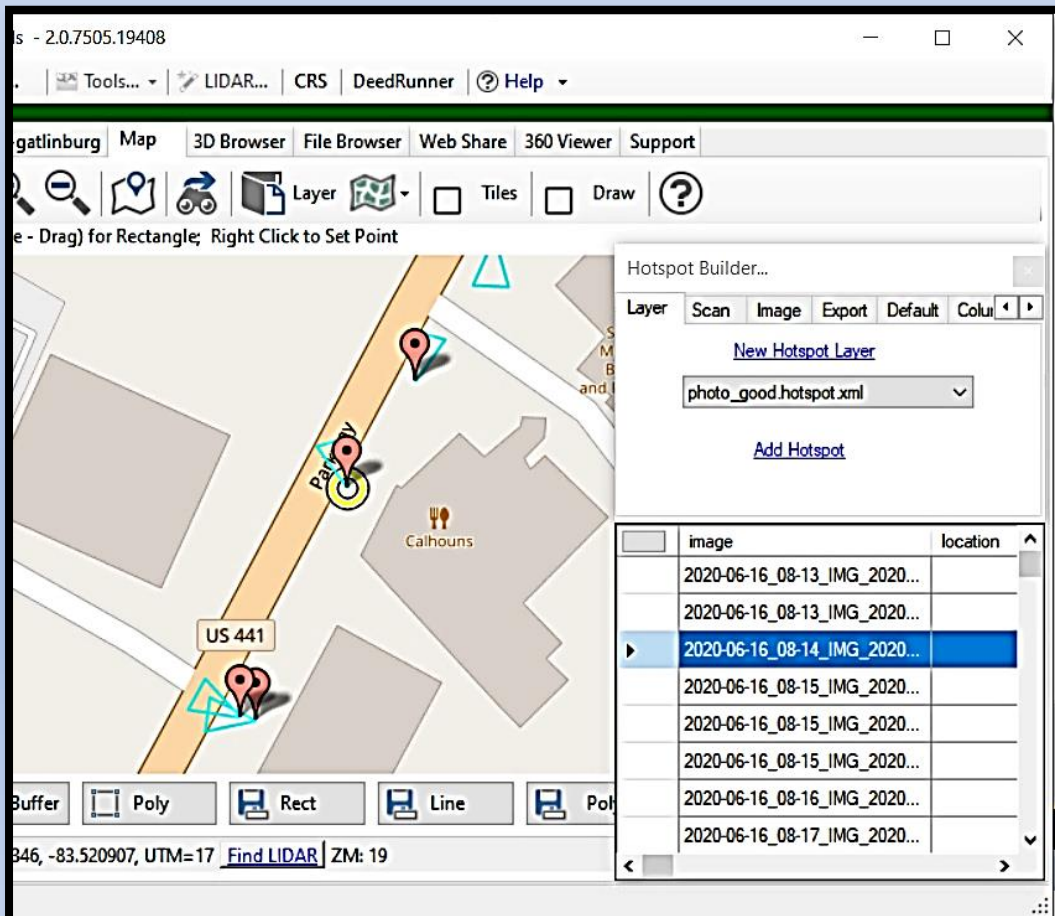
- ✓ GIS point layer with links to photo, pano, and pdf files
- ✓ Floor plan annotations
- ✓ Building exterior documentation
- ✓ Facility / equipment / asset photo documentation
- ✓ Construction photo documentation - record of change
  
- ✓ Easy deployment to GeoSync Cloud maps for sharing
- ✓ GIS export packages for use with ArcGIS and QGIS



# GeoSync Software

# What is a 360 Hotspot Layer?

- **GIS Point Layer**
  - Ready for ArcGIS, QGIS, or GeoSync Cloud
- **Coordinates are geographic**
  - If relative - say floor plan - then use EPSG:3857 (web Mercator) assuming the relative dimensions are real coordinates
- **Standardized attributes:**
  - Image
  - Name
  - Location
  - Desc
  - Muid\_g
  - url
  - Rotation
  - Z
  - Indoor Space Inventory
  - Camera Settings for Point Cloud Viewer



# 360 Hotspot Layer Project Folders...

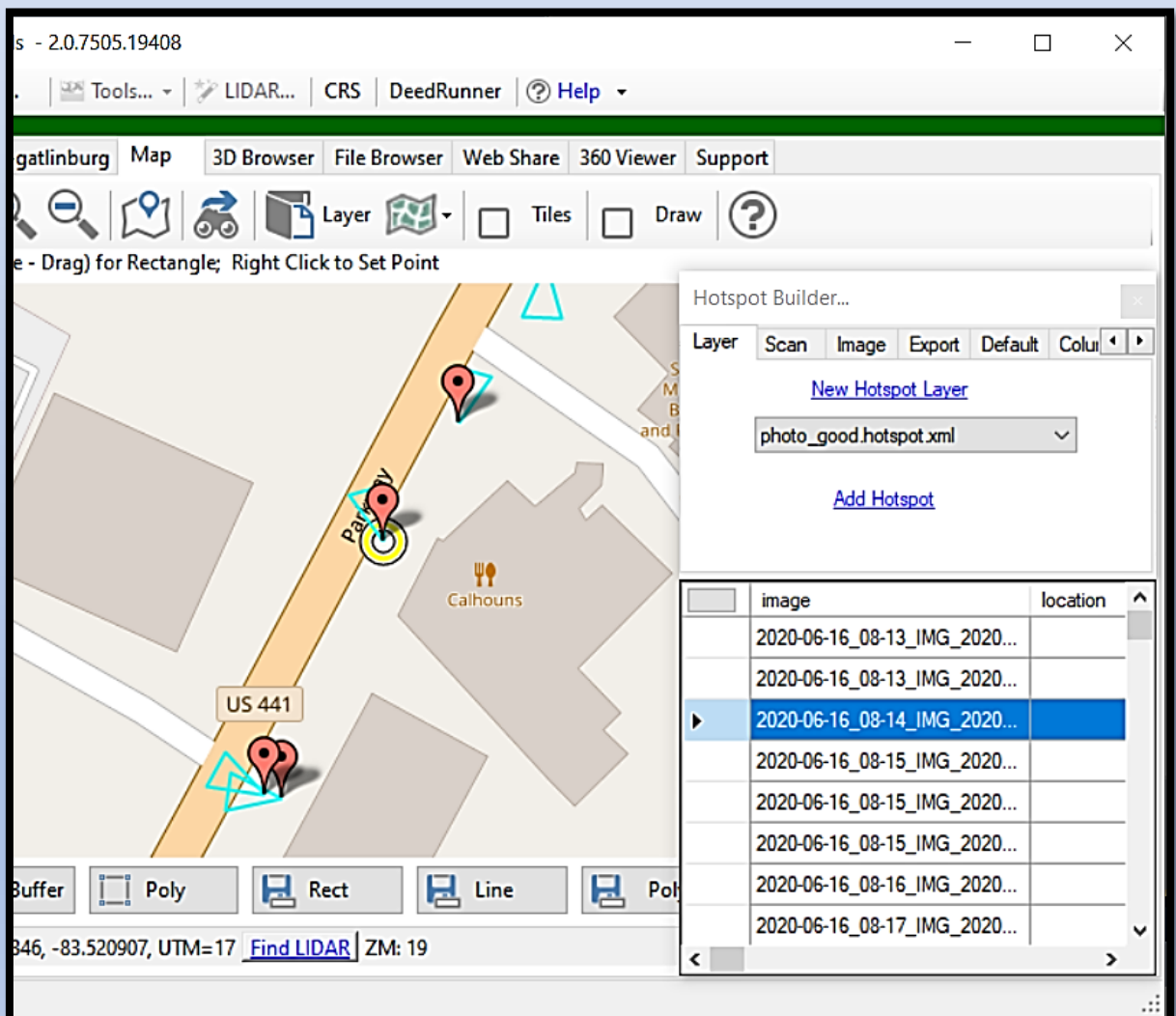
- **<Project>/Hotspot Folder**
- **Definition <name>.hotspot.xml**
- **Designated folder for media files**
  - <Project>/Hotspot/<Folder>
- **Export Folder**
  - <Project>/Hotspot/<Folder>/Export
  - Media (Images stored in MUID\_G named folders)
  - Media\_Single (Images stored in a single folder)
  - Export Layer (geojson, SHP, KML, CSV)
  - Export Fans (geojson, SHP, CSV)

The screenshot displays the GeoSync Z-Tools interface. The top menu bar includes 'Z-Tools Map...', 'Tools...', 'LIDAR...', 'CRS', 'DeedRunner', and 'Help'. Below the menu, there are tabs for 'Project: photo-test-gatlinburg', 'Map', '3D Browser', 'File Browser', 'Web Share', '360 Viewer', and 'Support'. The 'File Browser' tab is active, showing a tree view of the project structure on the left and a file list on the right. The tree view shows a 'hotspot' folder containing 'gatlinburg\_pointcloud0', 'photo\_good19', 'export', 'photo\_test26', 'photo\_test\_c32', and 'photo\_test\_ddc8'. The 'export' folder is expanded, showing 'media' and 'media\_single' subfolders. The file list on the right shows the following files and their sizes:

Name	Size
photo_good_hotspot_xml.csv	0.05MB
photo_good_hotspot_xml.csvt	0.00MB
photo_good_hotspot_xml.dbf	0.19MB
photo_good_hotspot_xml.geojson	0.04MB
photo_good_hotspot_xml.kml	0.06MB
photo_good_hotspot_xml.prj	0.00MB
photo_good_hotspot_xml.shp	0.00MB
photo_good_hotspot_xml.shp.gse.xml	0.09MB
photo_good_hotspot_xml.shx	0.00MB
photo_good_hotspot_xml_fan.csv	0.01MB
photo_good_hotspot_xml_fan.dbf	0.02MB
photo_good_hotspot_xml_fan.geojson	0.03MB
photo_good_hotspot_xml_fan.prj	0.00MB
photo_good_hotspot_xml_fan.shp	0.01MB
photo_good_hotspot_xml_fan.shx	0.00MB

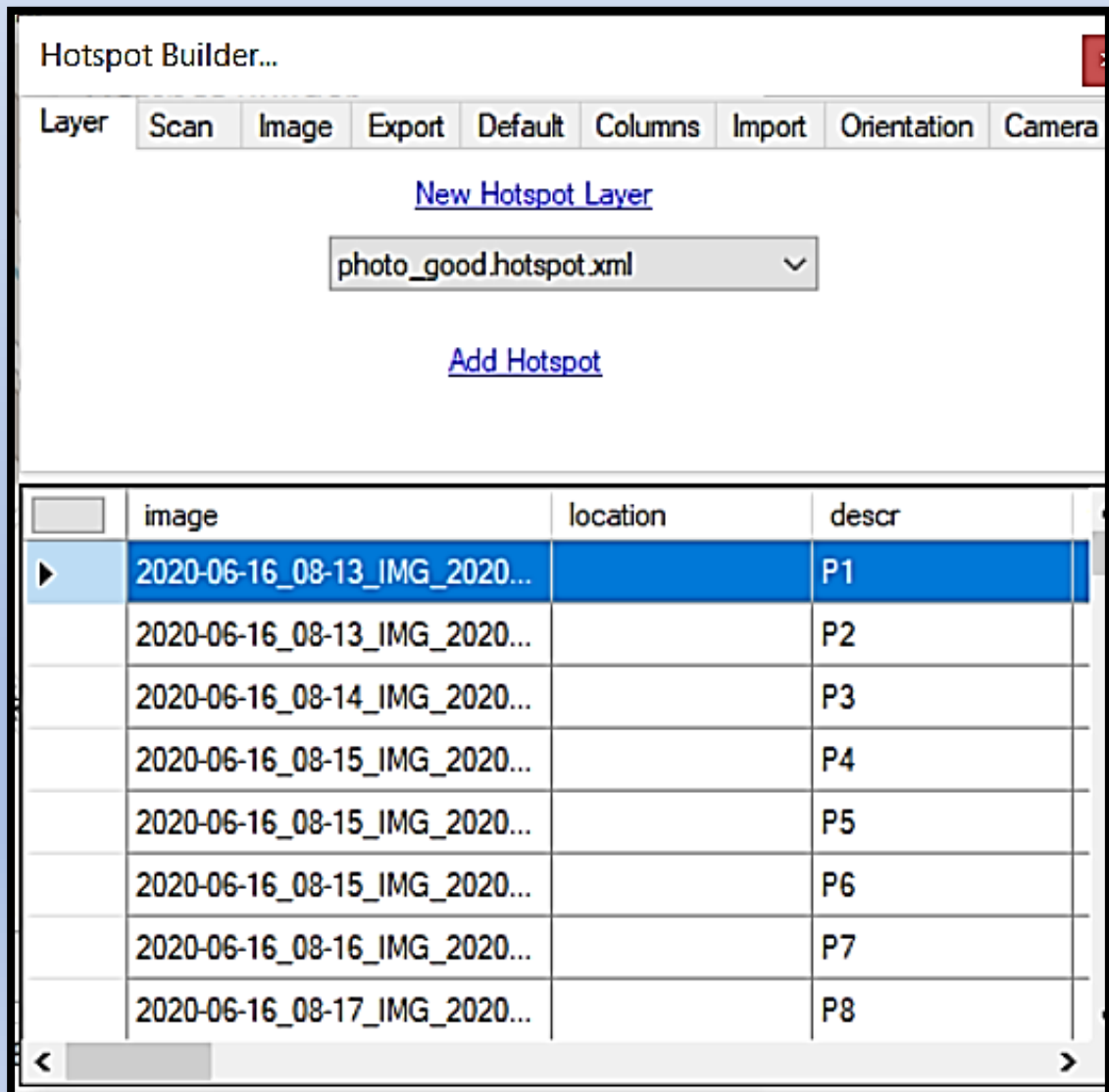
# What is the 360 Hotspot Builder?

- **Toolbox to build a hotspot layer**
- **Import points or create from scratch**
- **Import geotagged photo & pano files**
- **Export layer to geojson and shp**
- **Create URL for web share**
- **Generate camera info for 3d annotations**



# Hot spot builder interface...

- Layer Creation
- Scan Geotagged photos
- Preview Image
- Export to GIS / Cloud
- Set Defaults
- Update Data Columns
- Import Hotspot Layers and XML Layers
- Fix Photo Orientation
- Generate 3D Camera Parameters



Hotspot Builder...

Layer Scan Image Export Default Columns Import Orientation Camera

[New Hotspot Layer](#)

photo\_good.hotspot.xml

[Add Hotspot](#)

	image	location	descr
▶	2020-06-16_08-13_IMG_2020...		P1
	2020-06-16_08-13_IMG_2020...		P2
	2020-06-16_08-14_IMG_2020...		P3
	2020-06-16_08-15_IMG_2020...		P4
	2020-06-16_08-15_IMG_2020...		P5
	2020-06-16_08-15_IMG_2020...		P6
	2020-06-16_08-16_IMG_2020...		P7
	2020-06-16_08-17_IMG_2020...		P8