



LIDAR issues in Natural Resources



Acquisition Expense and Lag

Traditional LIDAR is expensive, particularly for custom acquisitions at a project scale.

Contracting process is lengthy



Resolution

Aerial LIDAR resolution is too course for fine scale scene capture



Processing and Analysis

Huge datasets, complex processing necessary





Devices are costly



Able to scan small areas at high resolution



Project level scans are relatively cheap



Easier to process

Less processing than Landscape scale LIDAR and included software dramatically reduces difficulty

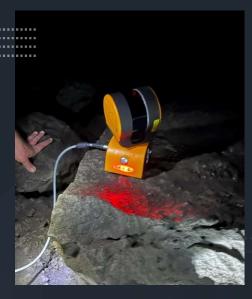
Devices

- FARO FOCUS
- GeoSlam ZEB Horizon









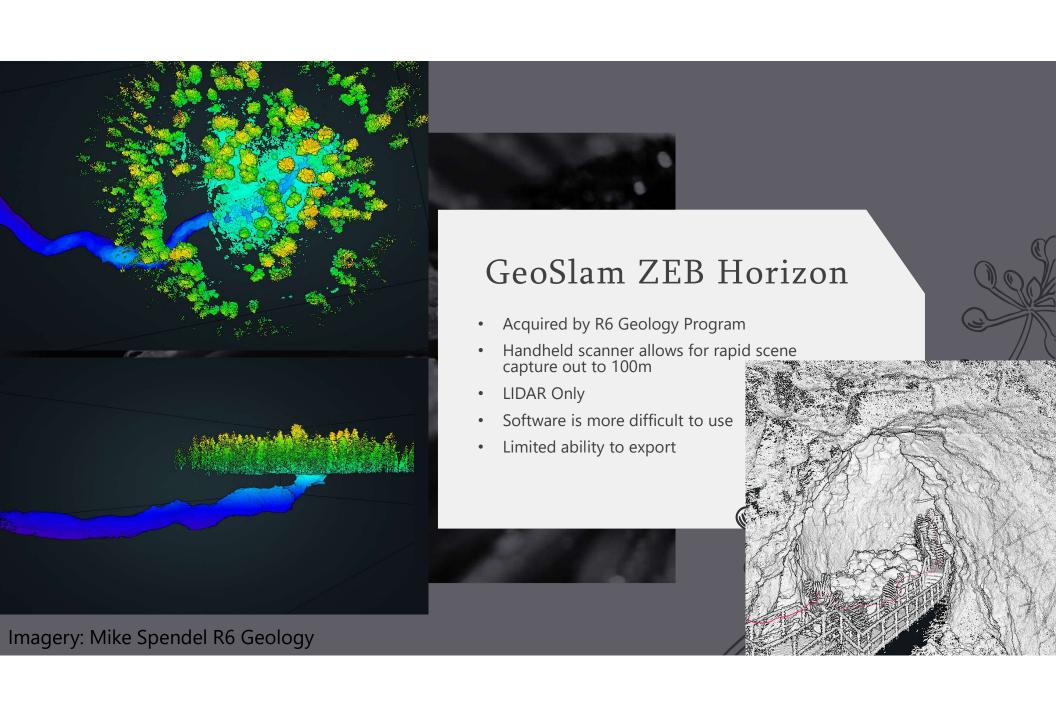






GeoSlam ZEB Horizon

- R6 Geology
- Lava River Cave



Future Projects/Applications

- Finish Scanning Lava River Cave
- Develop accessible visitor content for Newberry National Volcanic Monument
- Additional Natural Resource Projects
- Continue to support Law Enforcement Investigations
- Further Collaboration with R6 Geology to map other caves, mines, etc.
- Additional Maps and integrating LIDAR data

Technology Potential?

- FARO acquired GeoSlam
- Drones/UAS
- Higher detailed/faster scanners

