

28 May - 1 June 2023 Orlando Florida USA

Protecting Our World, Conquering New Frontiers

Taking Flight with

RIEGL LIDAR

Maximizing Your Efficiency on the Ground

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Division Manager | Unmanned Laser Scanning

RIEGL USA

May 29, 2023



Organized By











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LiDAR is:

active sensing daylight independent inherently three dimensional multi-target capability

each laser pulse provides multiple returns per pulse







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LiDAR Platforms



MOBILE MLS



AIRBORNE ALS







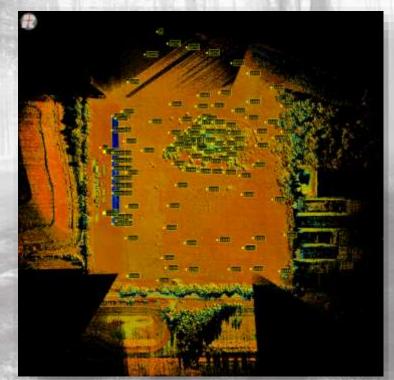


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Benefits of UAV LiDAR for data capture

site: calibration field site area: 60 acres setup time: 5 min scan time: 15 min average dz: +0.015m





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Benefits of UAV LiDAR for data capture

site area: 2800 acres setup time: 5 min average dz: +0.011m minimum dz: -0.014m maximum dz: +0.033m



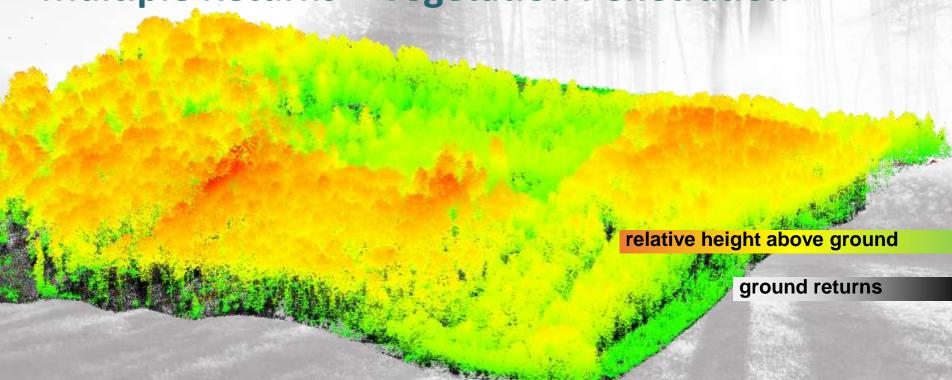
LiDAR Vegetation Penetration





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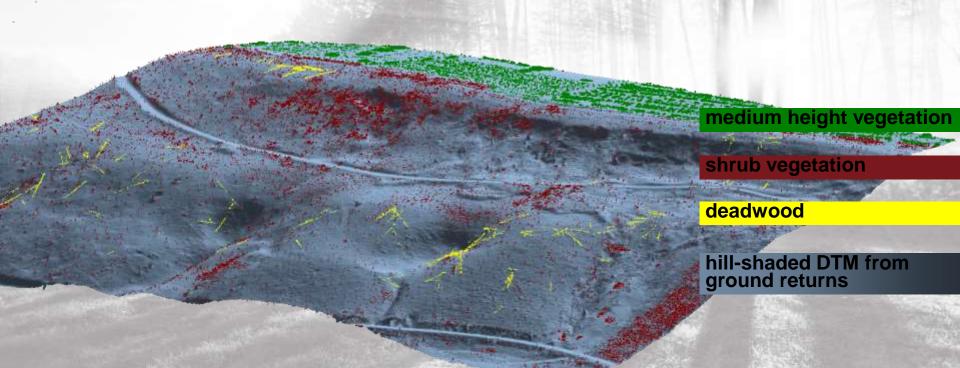




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Multiple Returns – Foliage Penetration





top view

FIG WORKING WEEK 2023

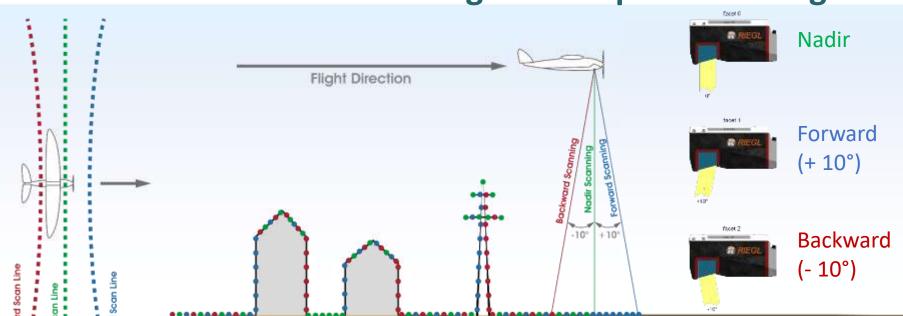
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Next-Generation RIEGL LiDAR:

side view

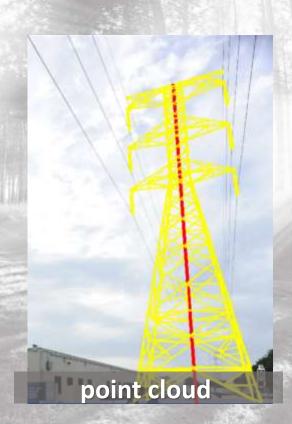
NFB Scanning for Complete Coverage

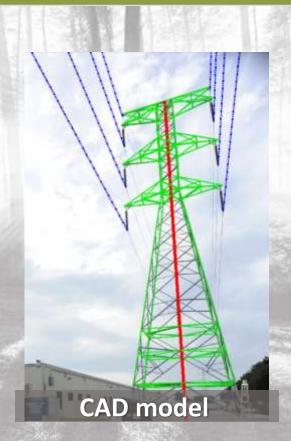




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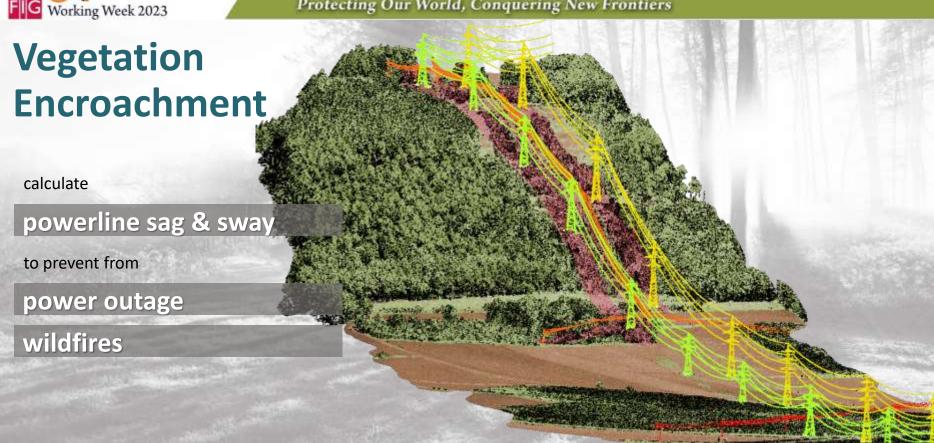




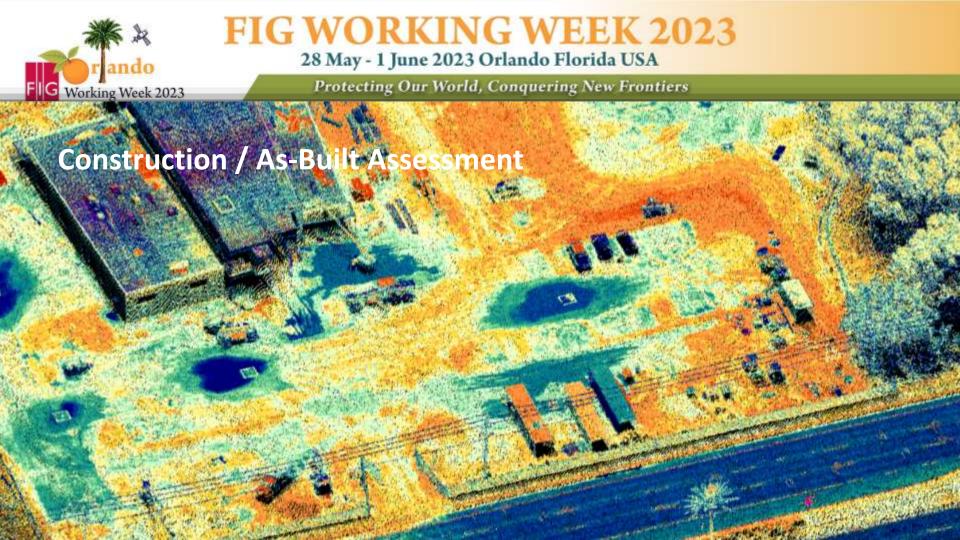


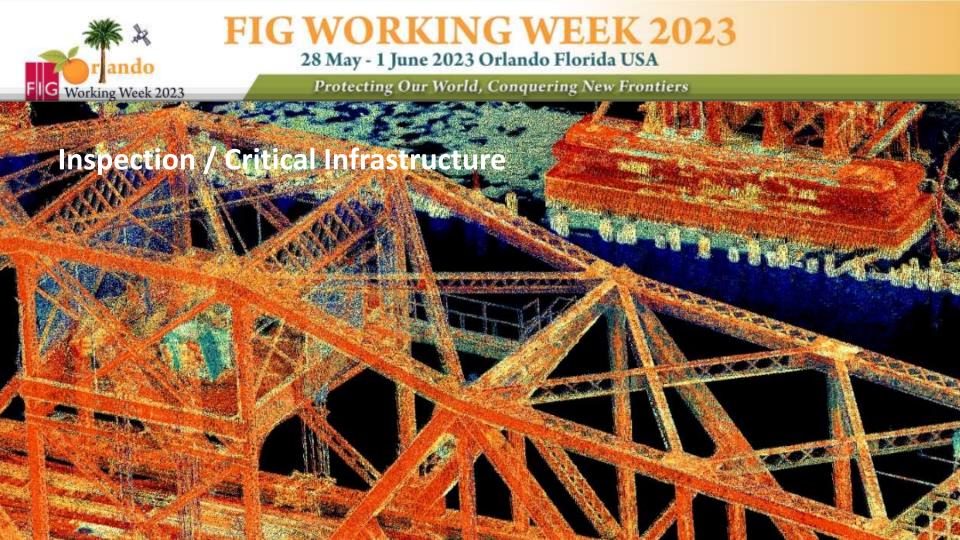


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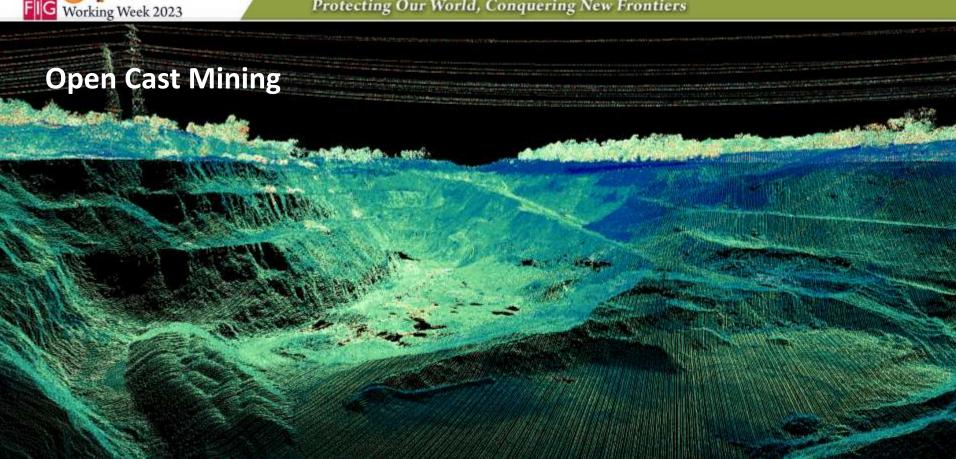






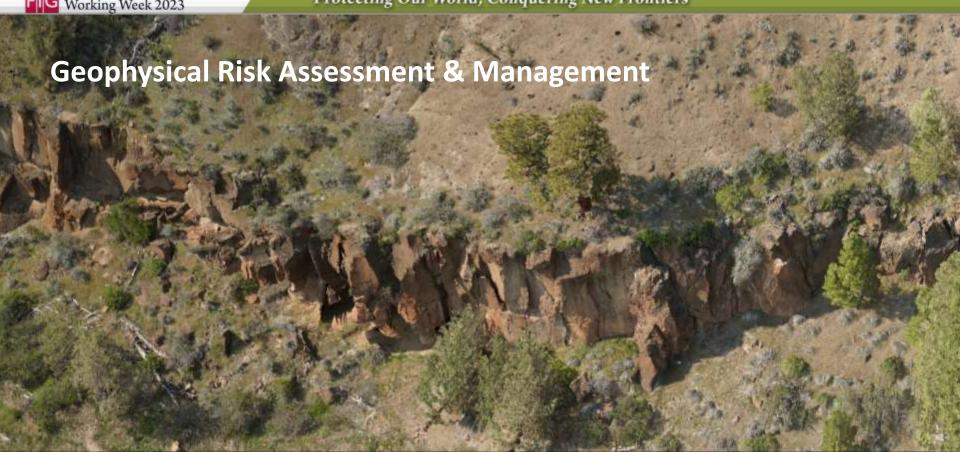


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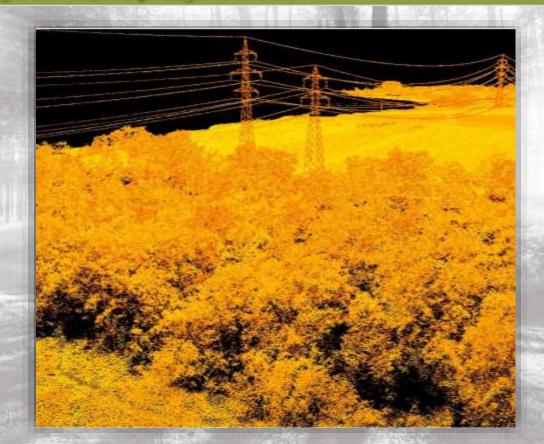


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Conclusion

- UAV LiDAR is another high-precision tool in a surveyor's tool belt
- increase efficiency and usability in the field
- to take you further and beyond with high performance, engineering grade surveying and mapping





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Thank you for your kind attention!

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