



*Providing solutions using innovative tools*

# Overview

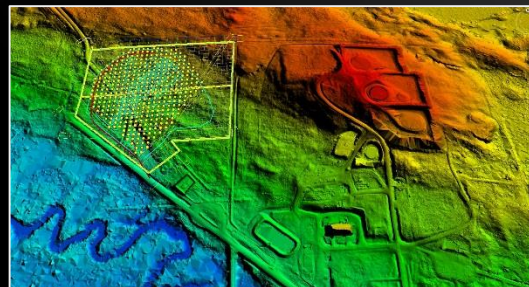
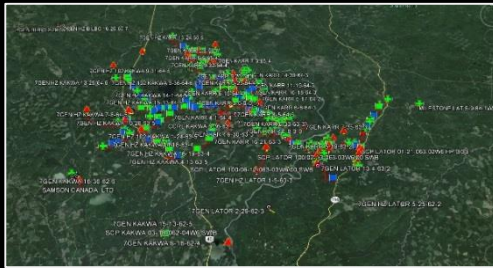
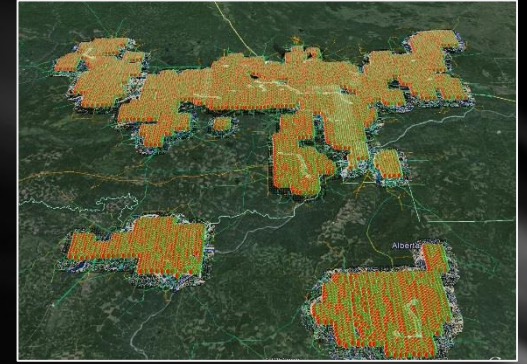
- Background.
- What is LiDAR?
- Data Collection Methods and Vieworx.
- LiDAR Applications to Wetlands.
- Digital Construction Services.

# Background

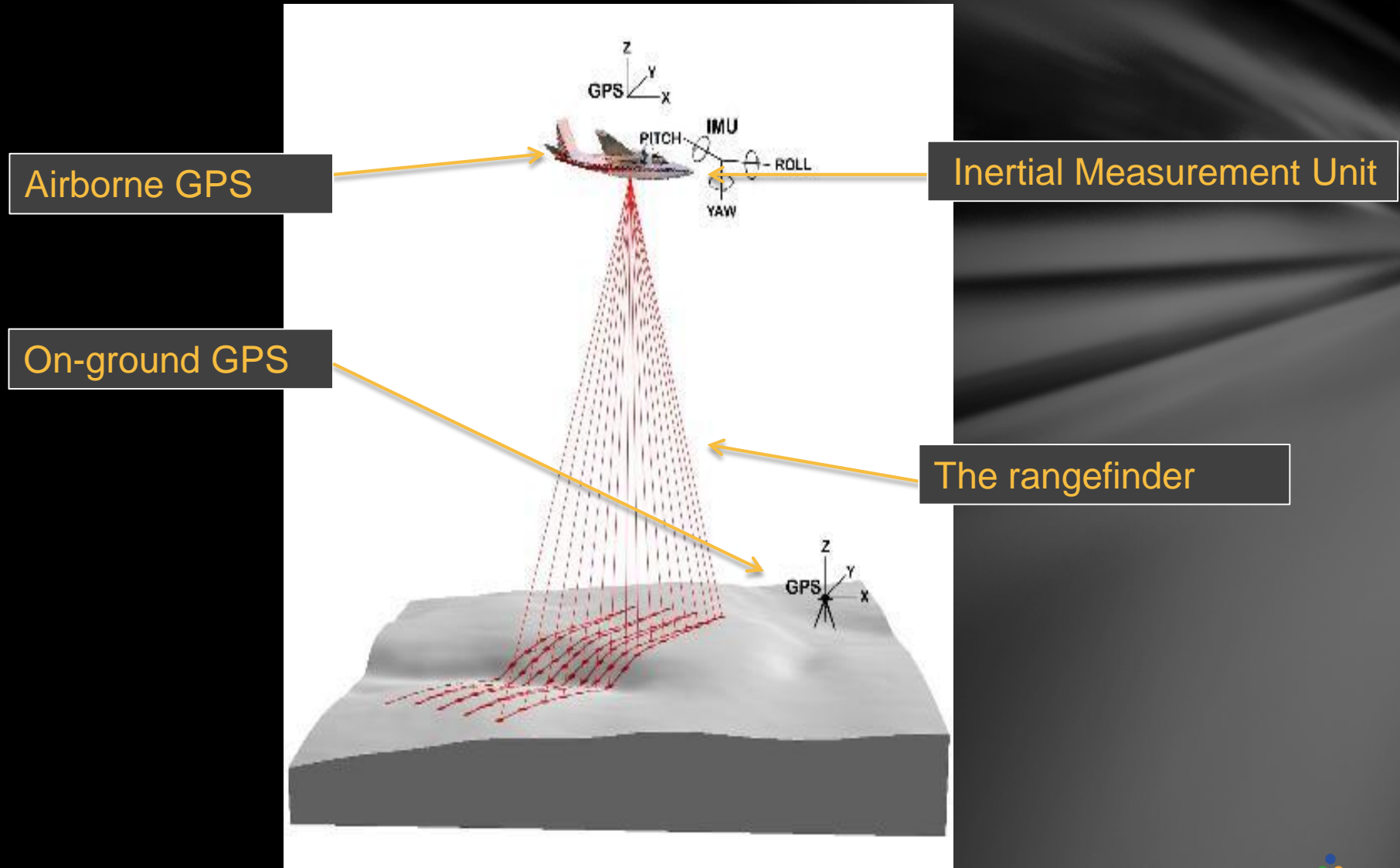
**Plan**

**Deliver**

**Implement**

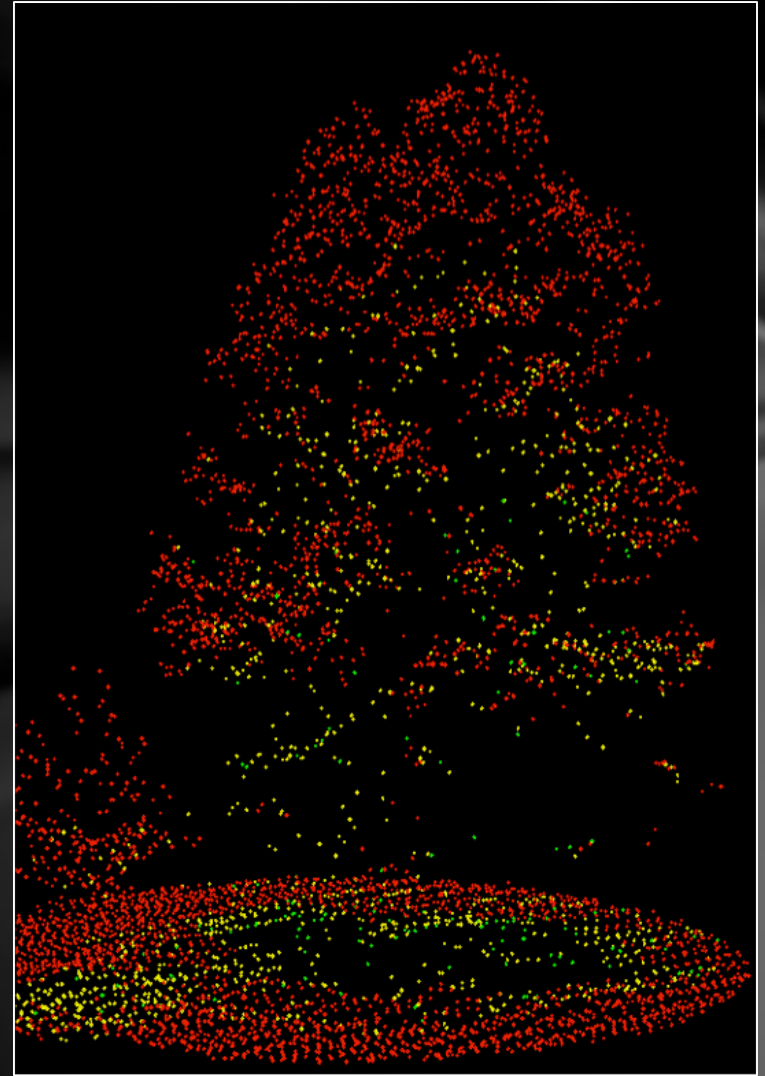


# Light Detection and Ranging (LiDAR)

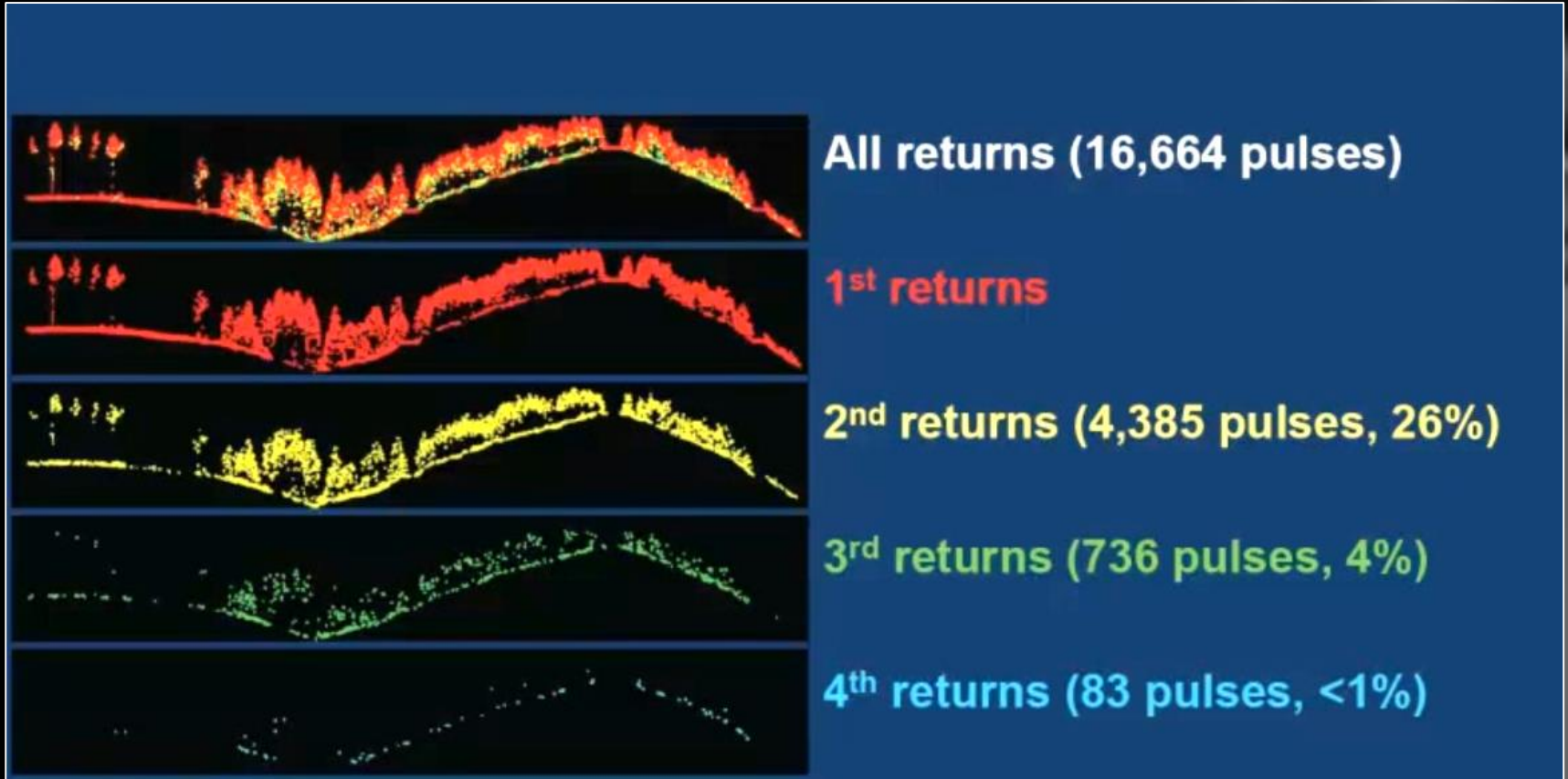




# High Point Density

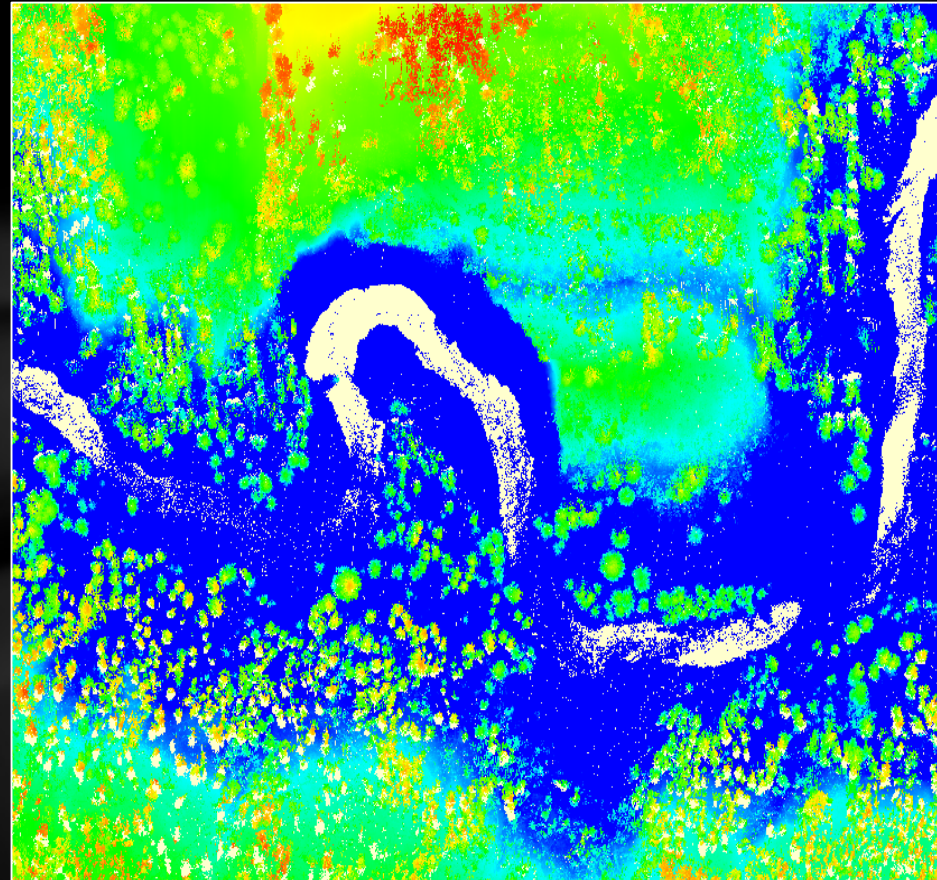


# Multiple Returns

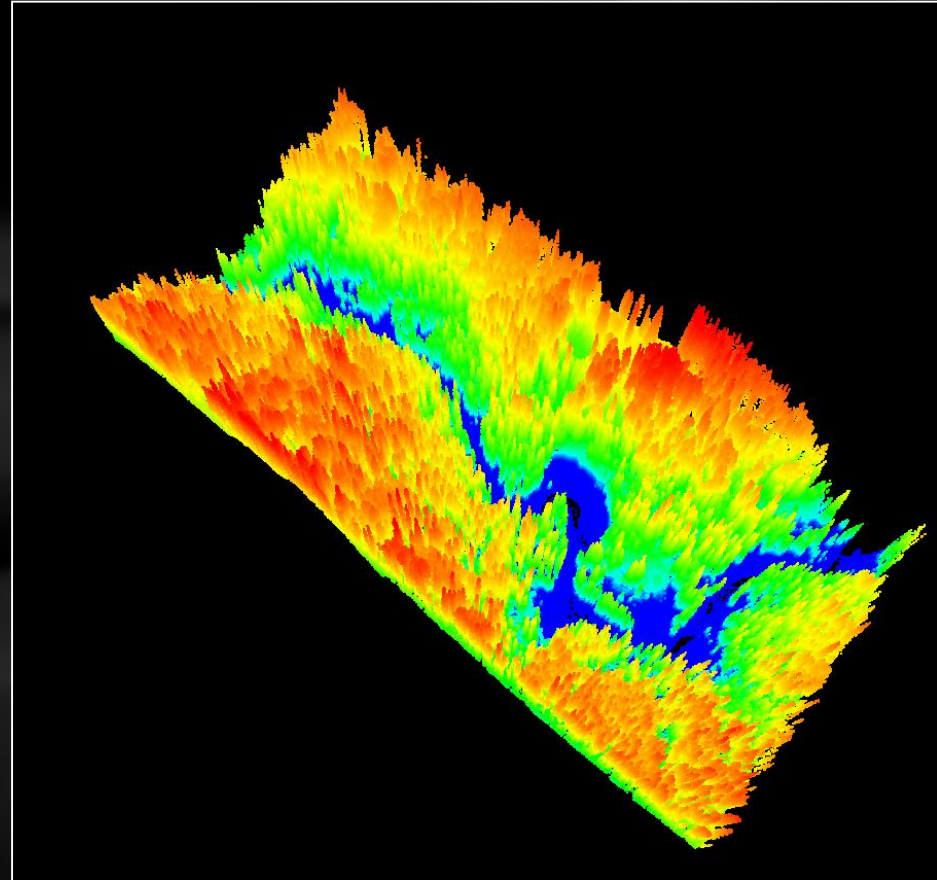




# Aerial Photo vs. Point Cloud

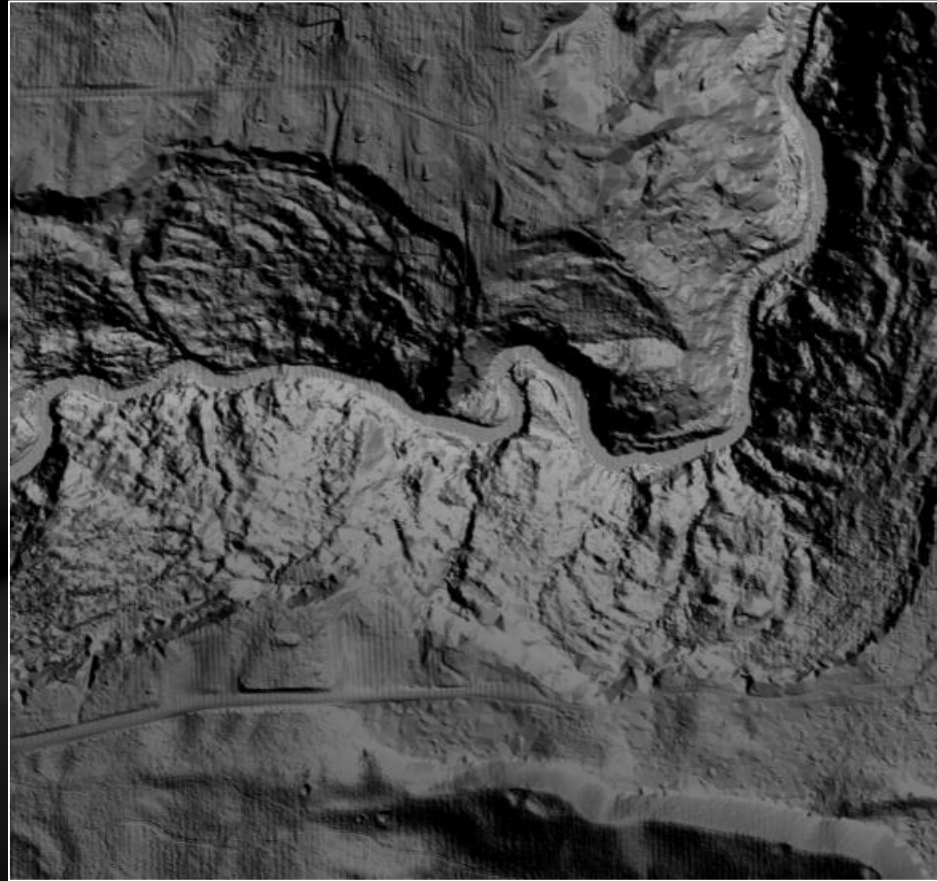


# Aerial Photo vs. Point Cloud



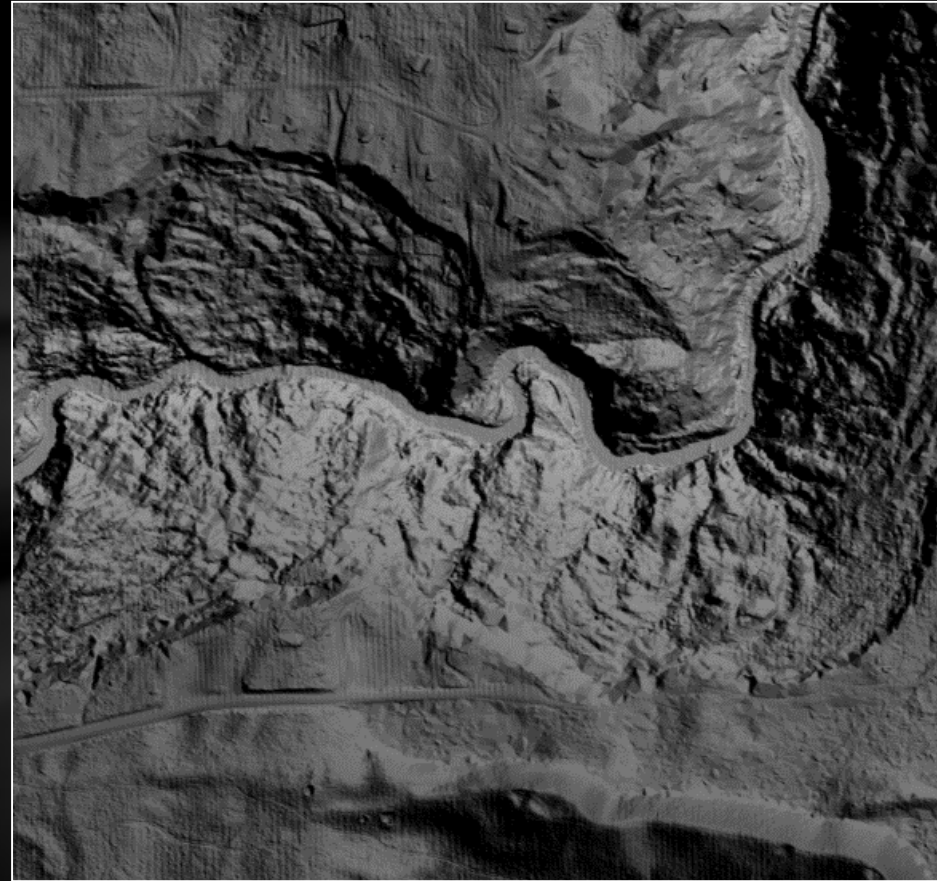


# Aerial Photo vs. Bare Earth

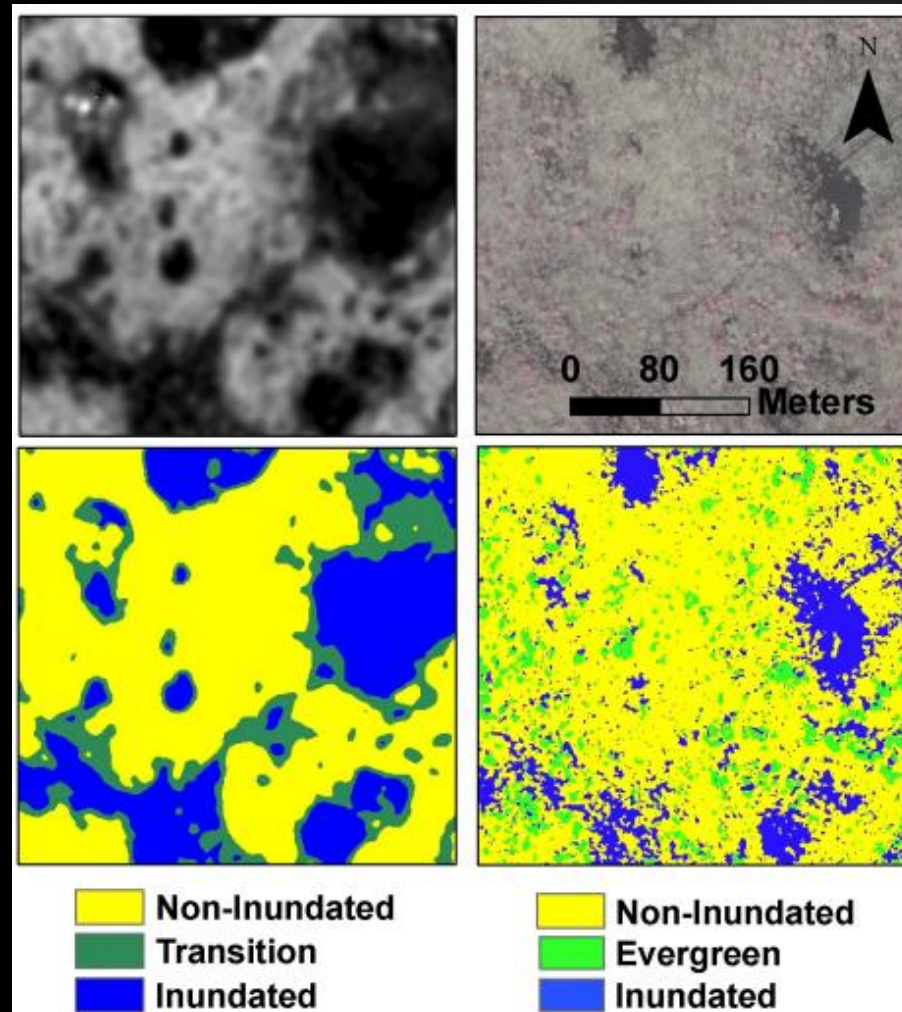




# Bare Earth Photo vs. Bare Earth LiDAR

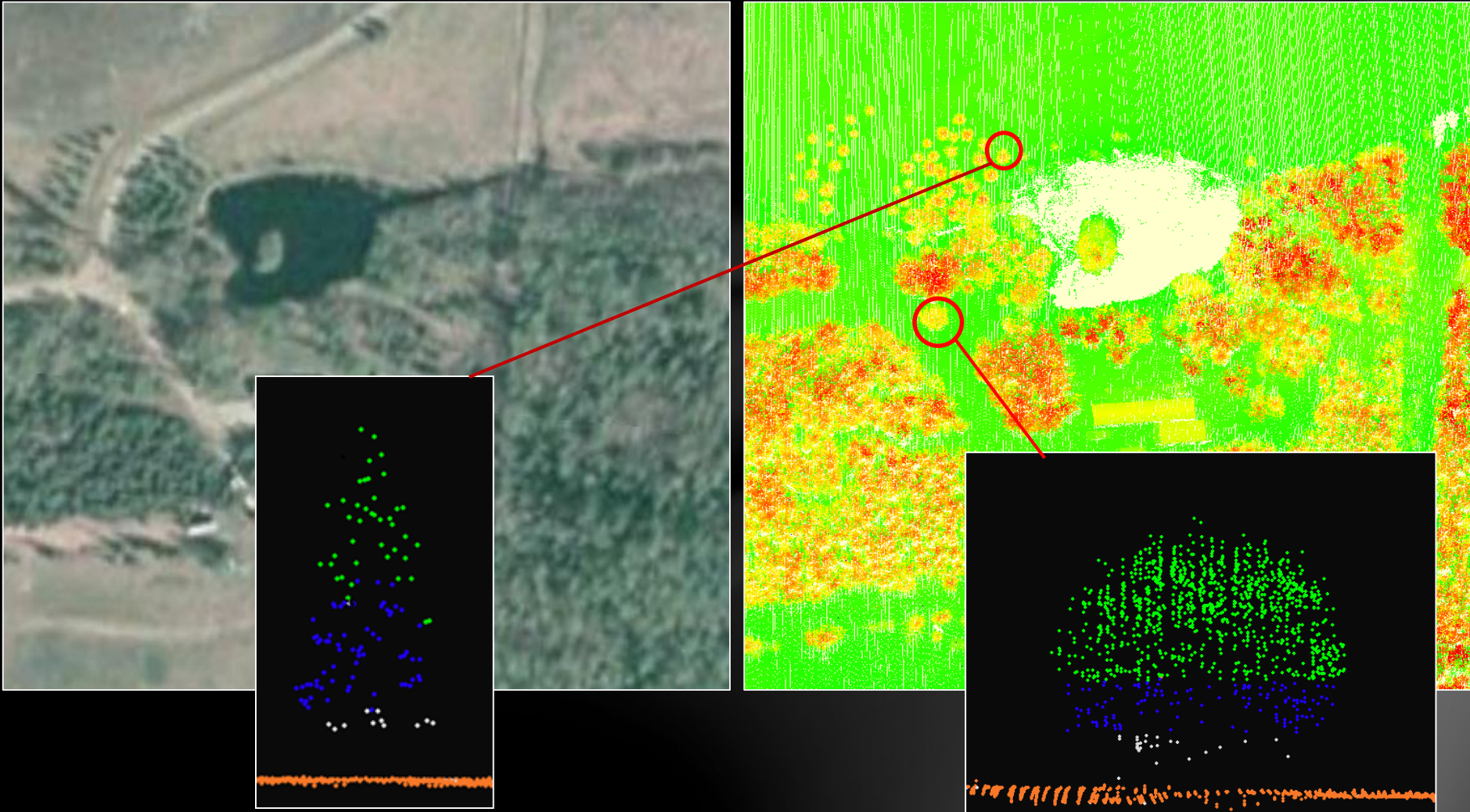


# LiDAR for Wetland management

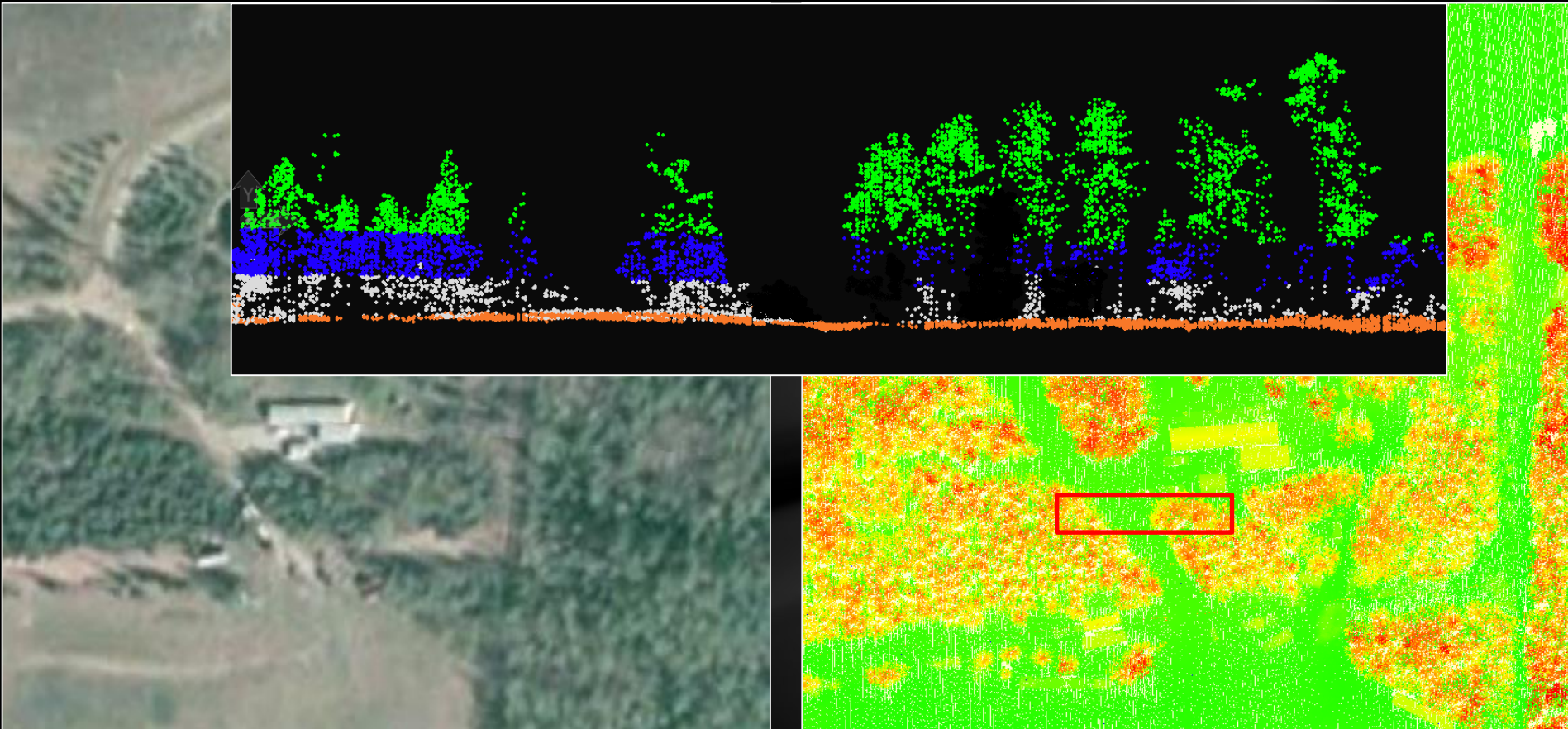




# Forest Structure Characterization

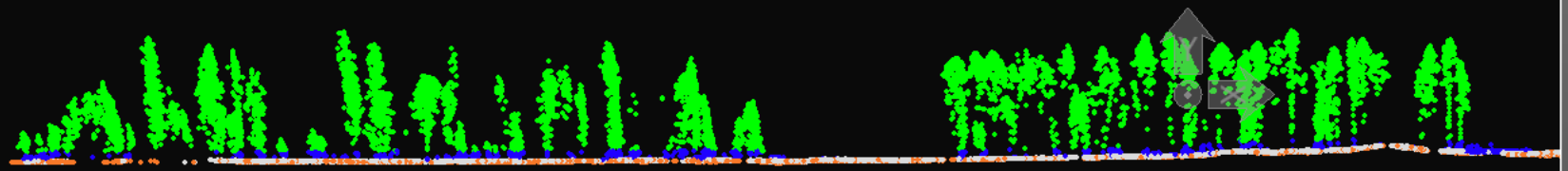
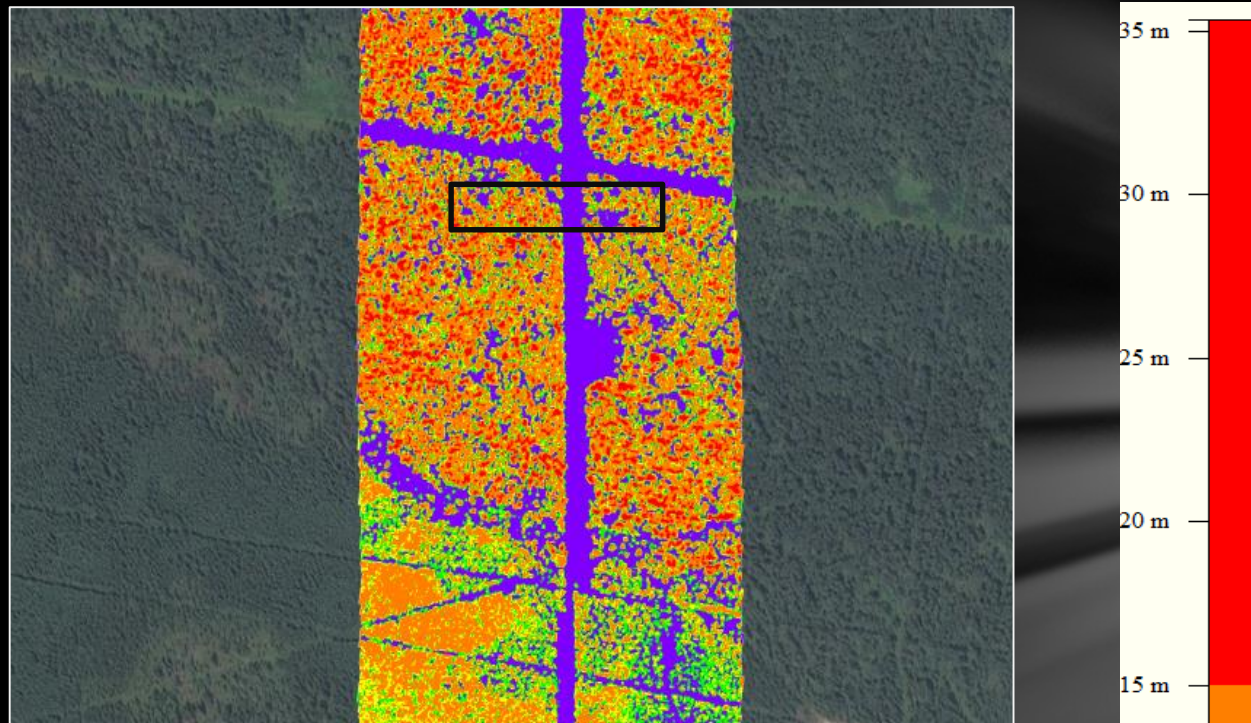


# Forest Structure Characterization





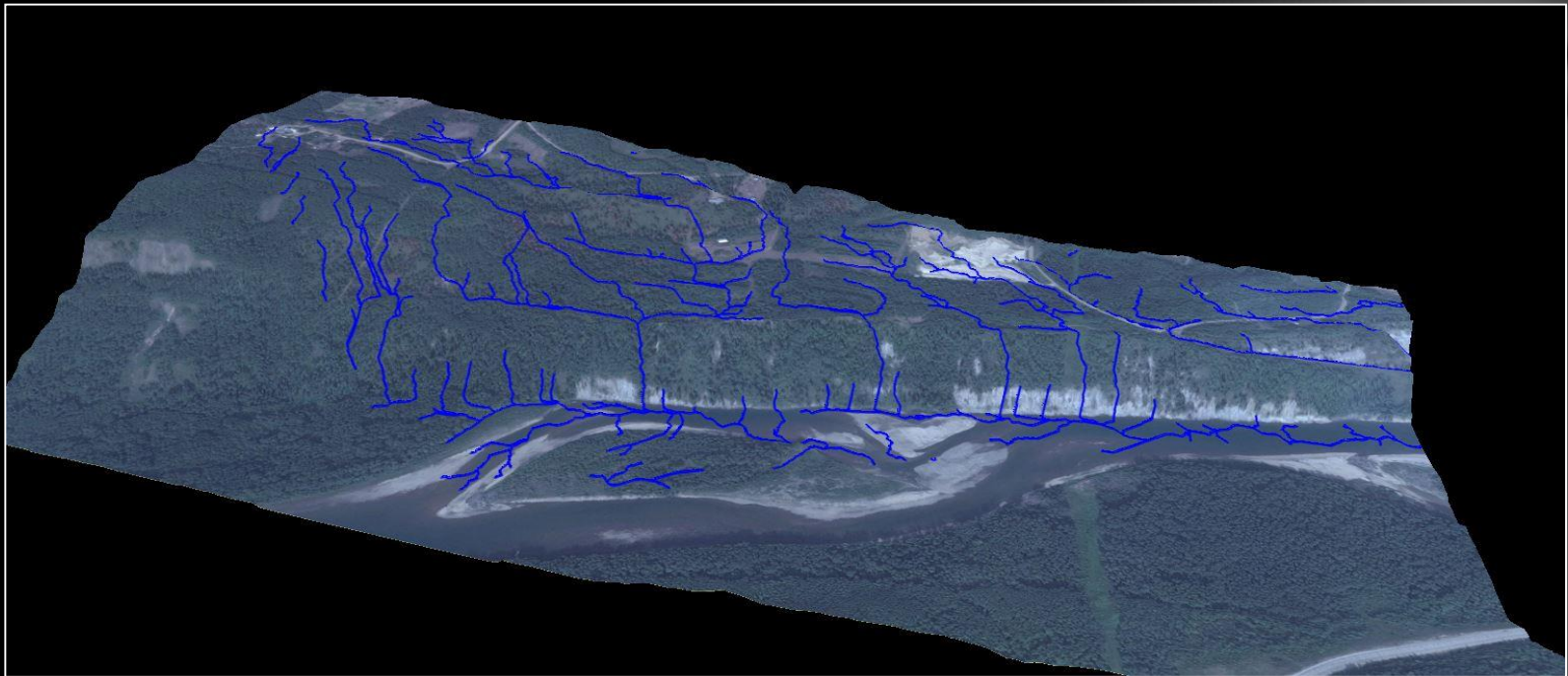
# Vegetation Height Models





# LiDAR- Drainage

- Wet Area Mapping = Spatial distribution and extent of zones of saturation
- Runoff Volume
- Flood Predictions
- Erosion Rates

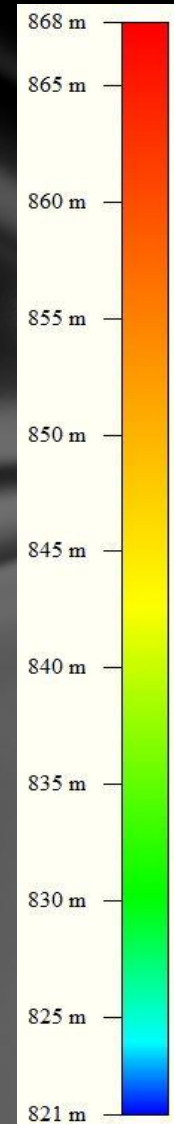
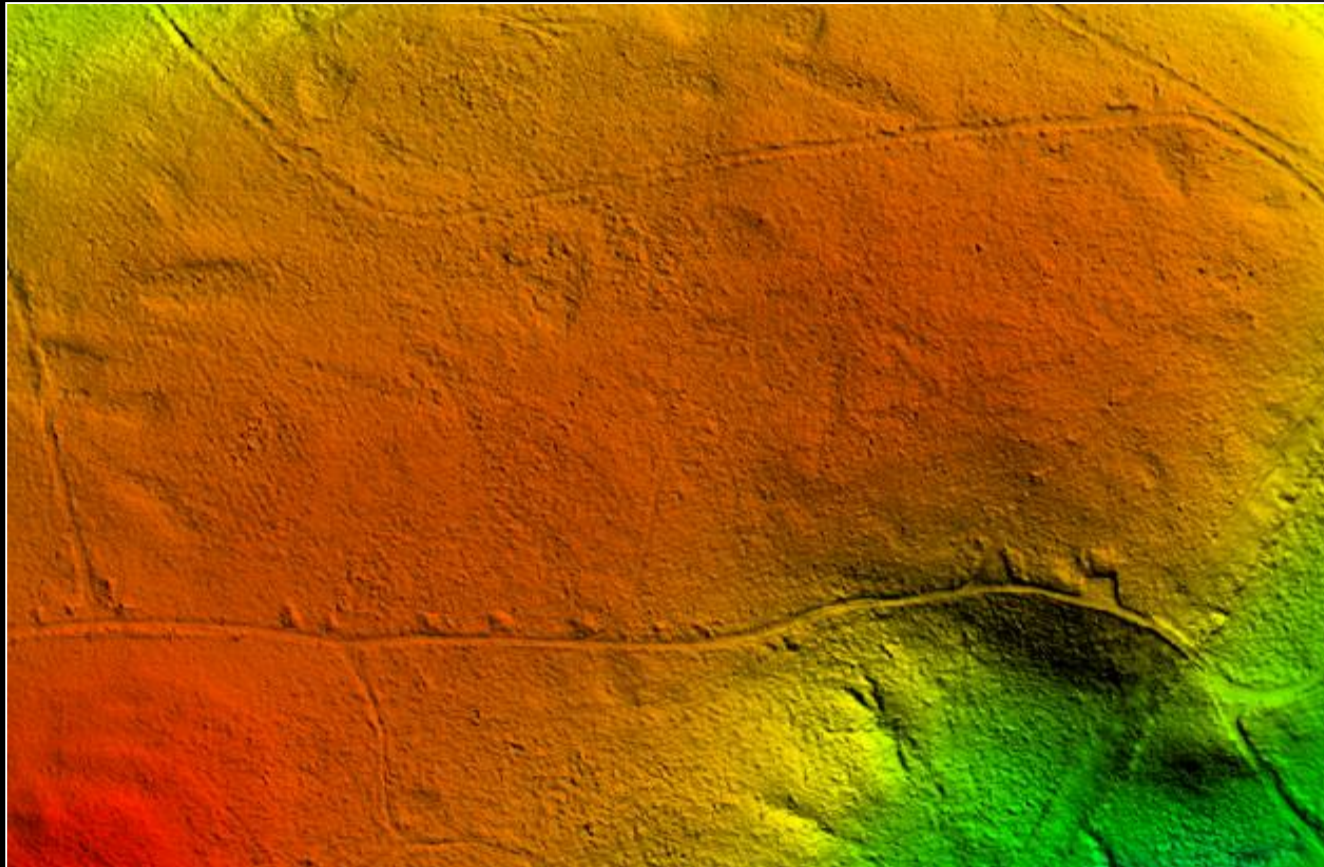


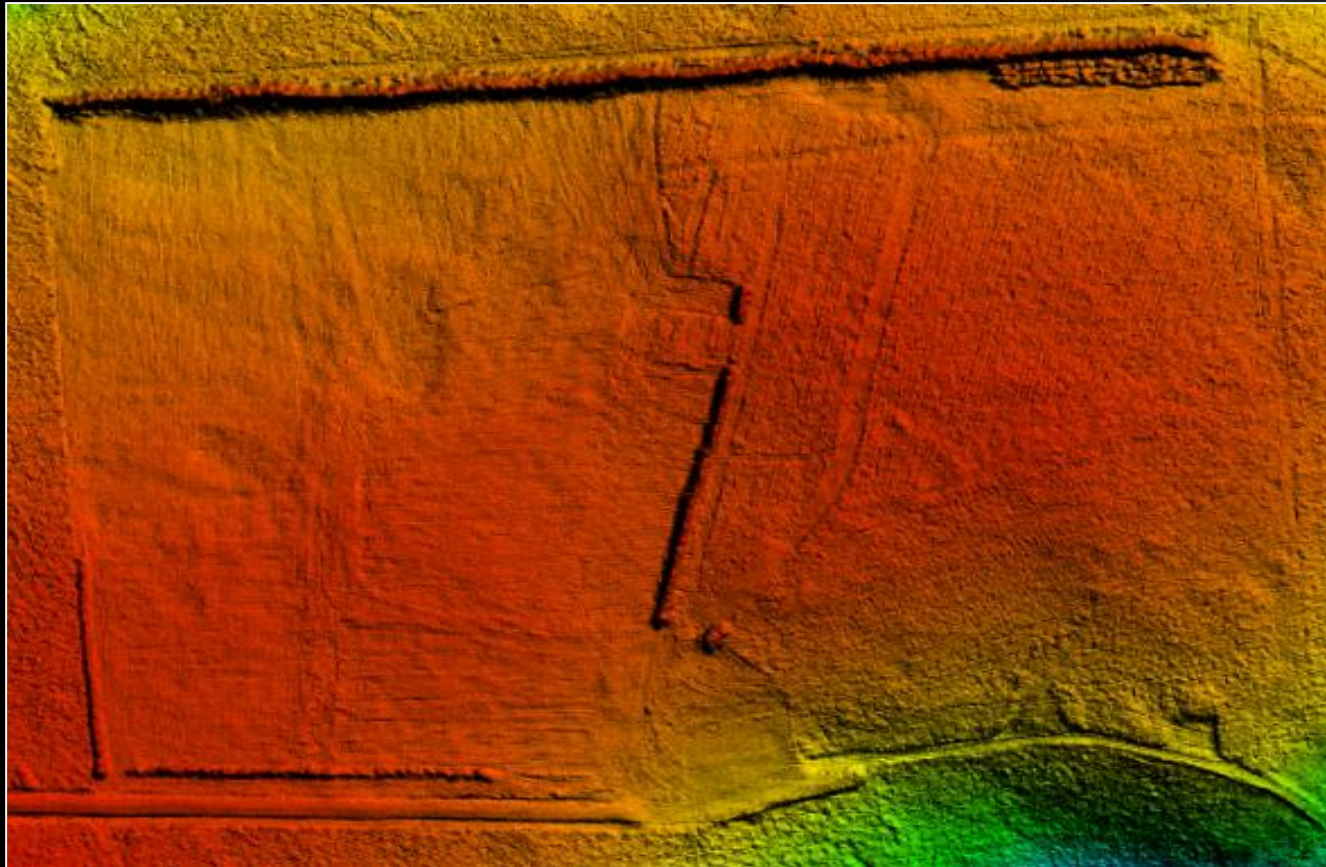
# Planning - Design



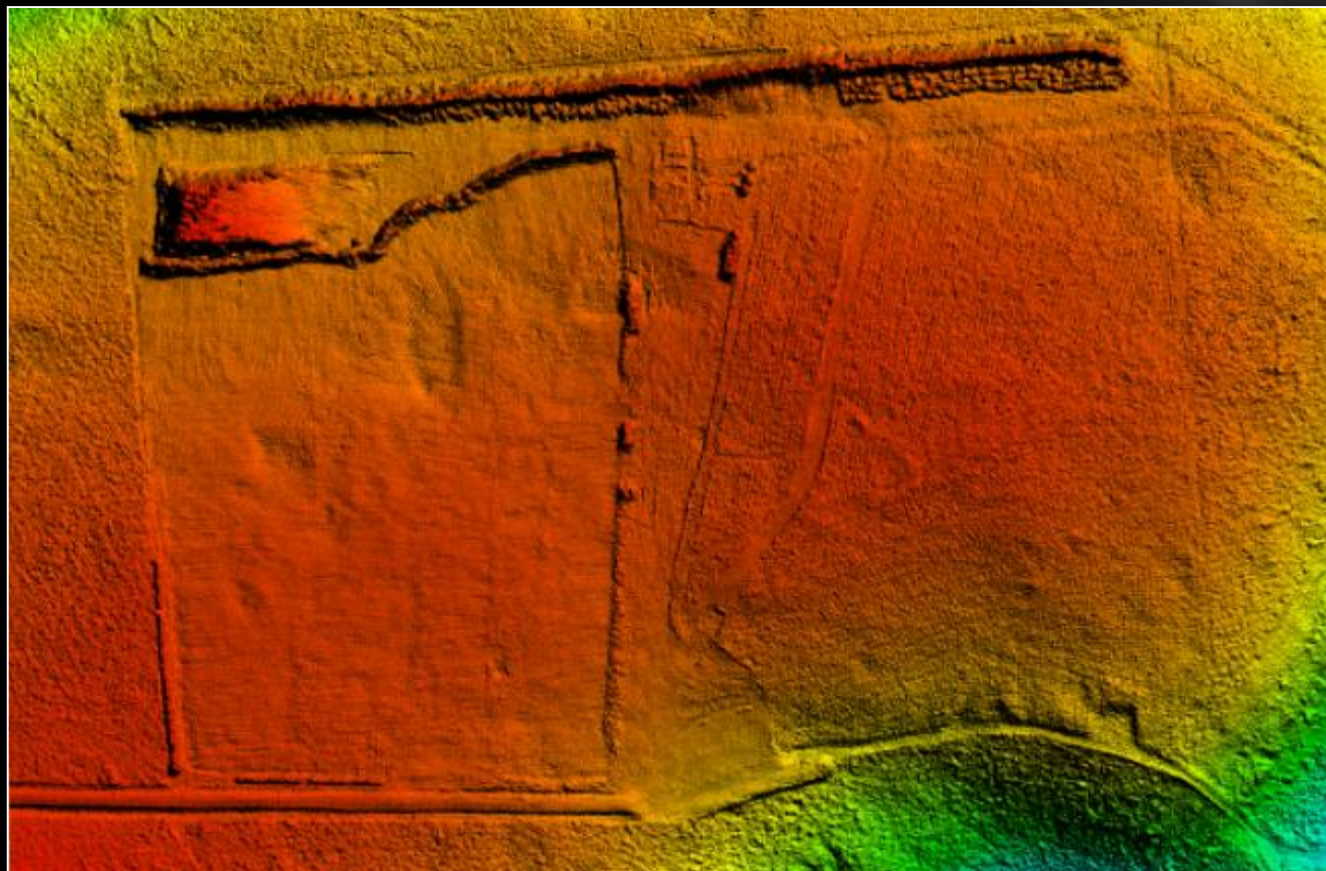


# LiDAR Progress

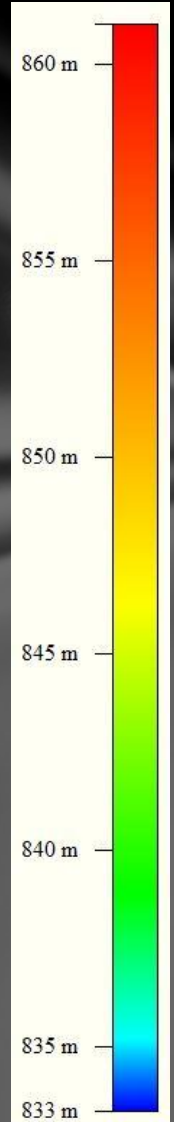
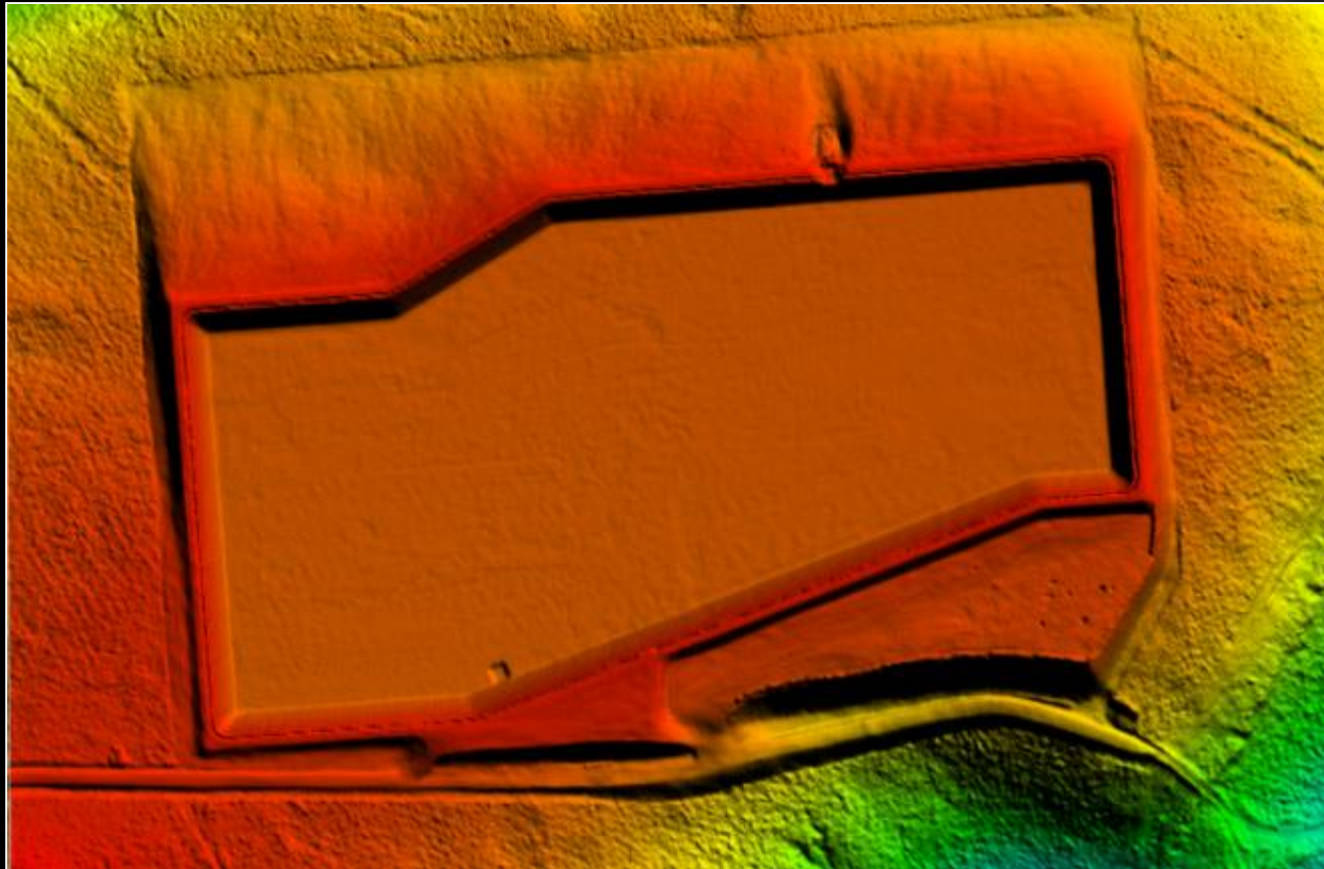




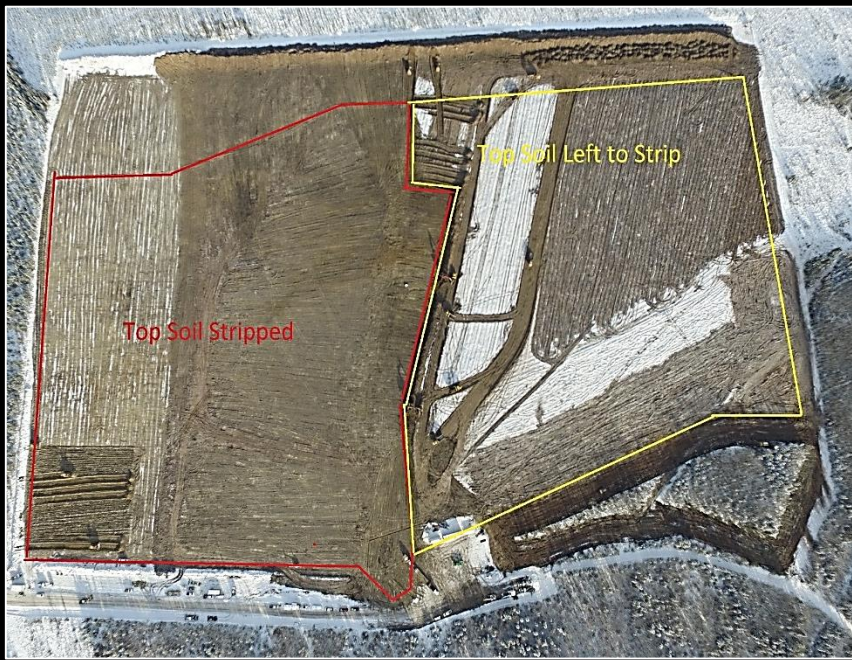














# Oil and Gas Industry

Pipeline Facility



# Oil and Gas Industry

Sign Down





# Oil and Gas Industry

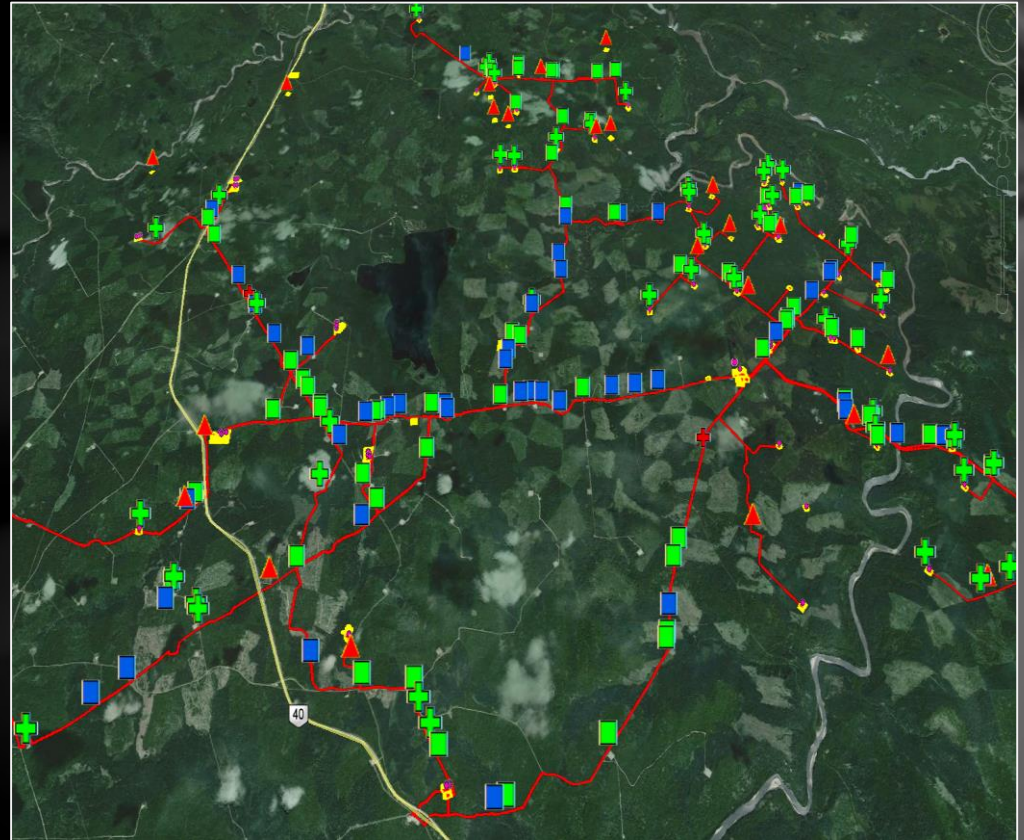
Water- Crossing





# Oil and Gas Industry

Final Inspection



# Innovation





# Innovation – Wood Chip road



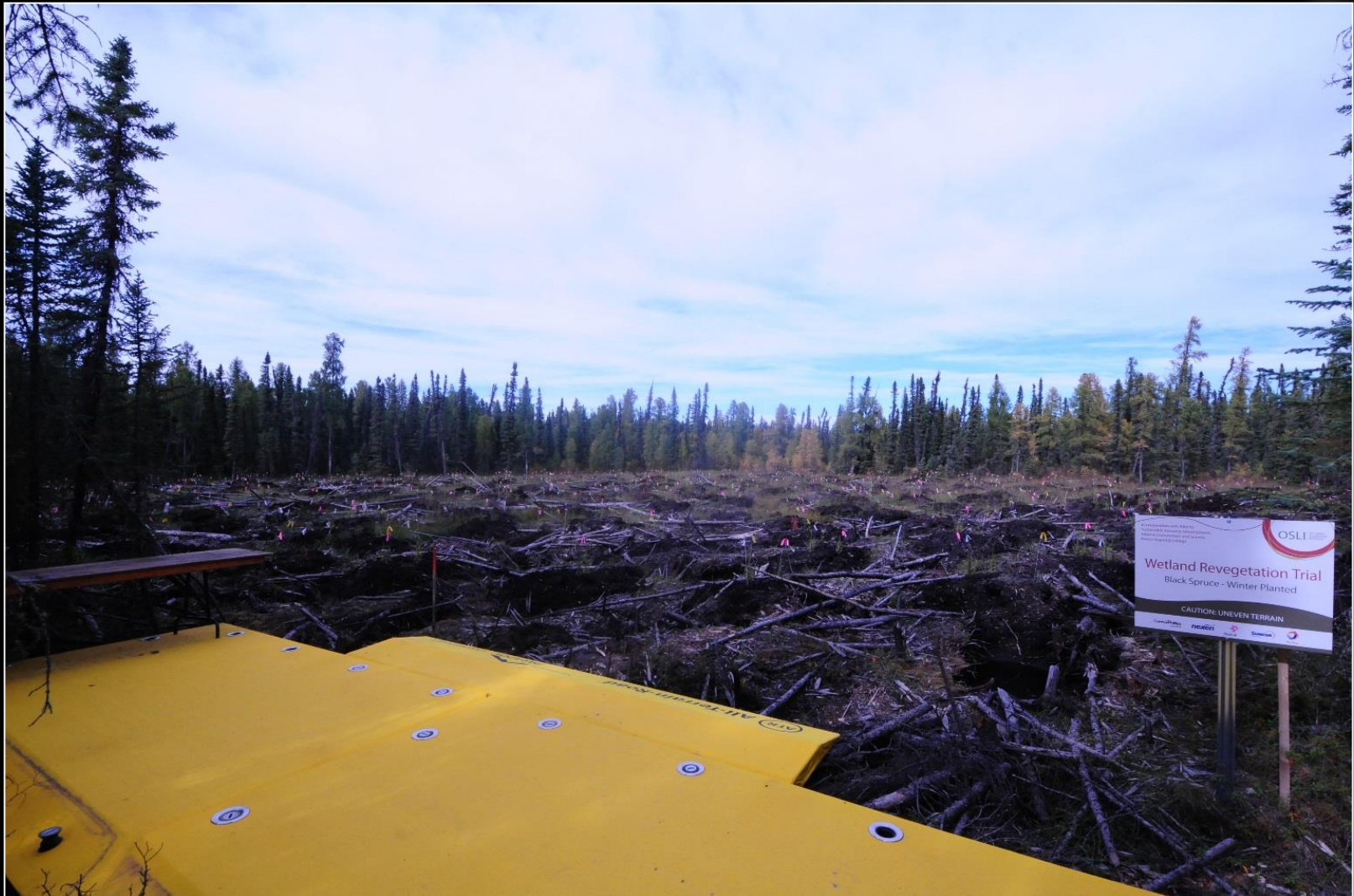


# Innovation- Geocells





# Innovation – Wetland Restoration





# Innovation- Tree planting





Vieworx



Construction



Services



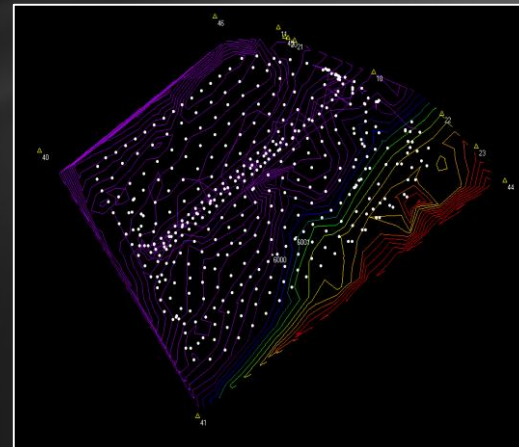
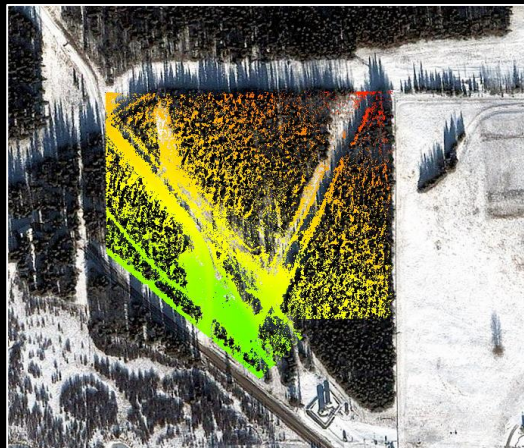
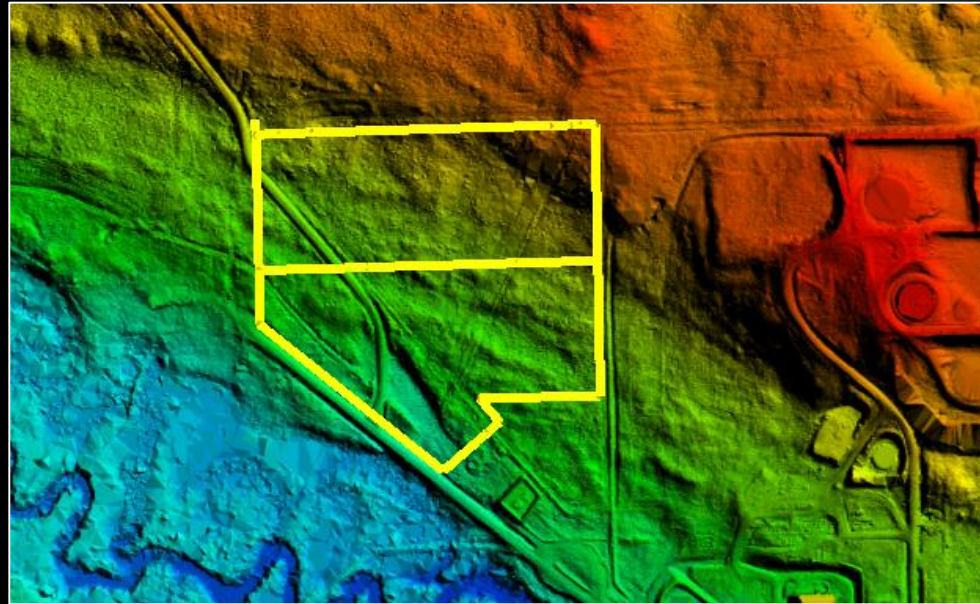
# Plan



# Implement



# Deliver





Plan

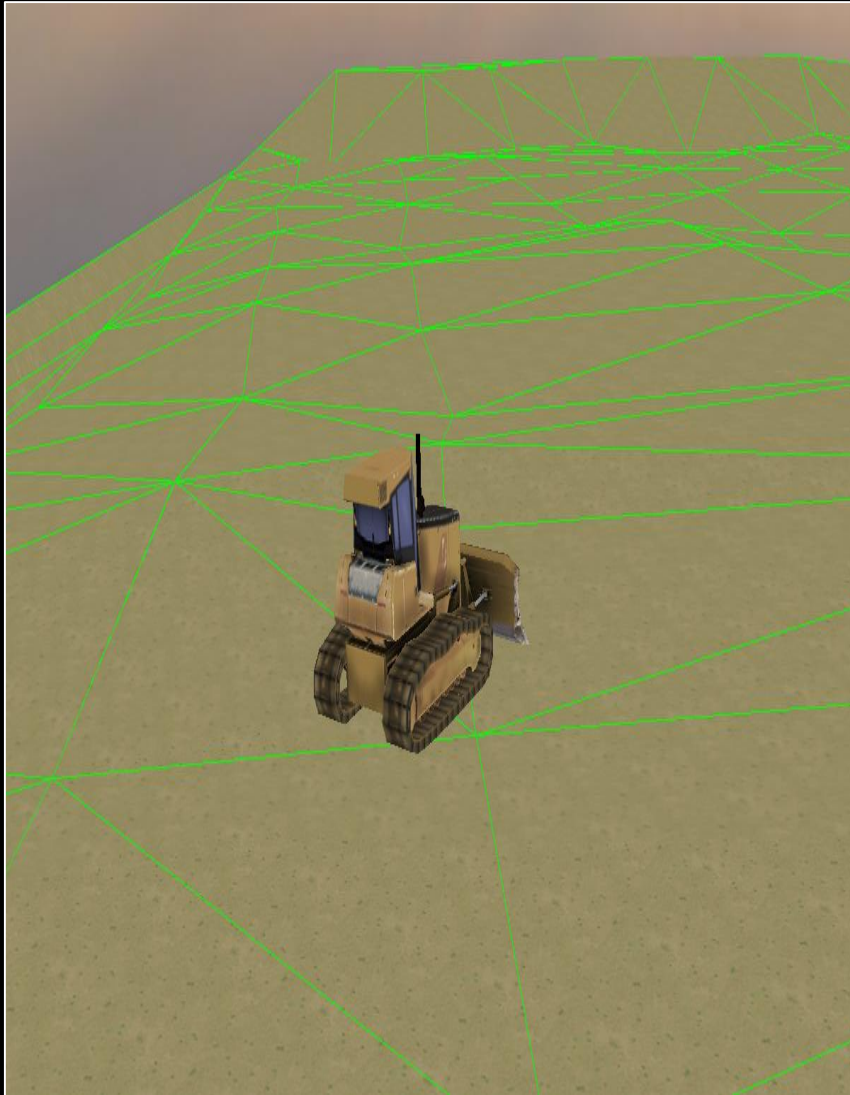


# Implement



Deliver

## Digitally – Driven Construction Tools



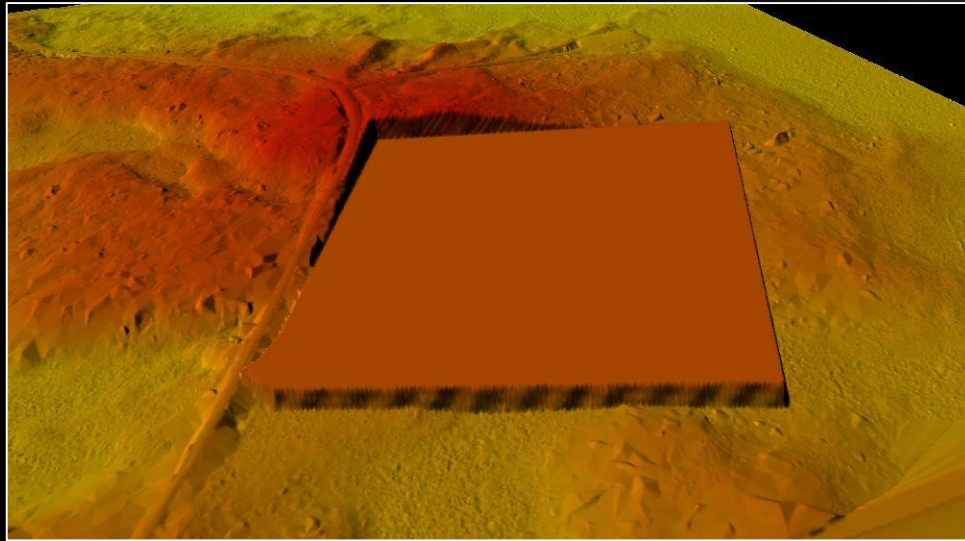
Plan



Implement



Deliver





# Summary

- LiDAR offers many advantages over traditional surveying techniques.
- LiDAR produces fine spatial resolution necessary for many applications .
- Vieworx Geophoto has the innovative tools to deliver highly accurate, cost- effective products.

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