



Delivering Business Efficiencies Using Drone Technology

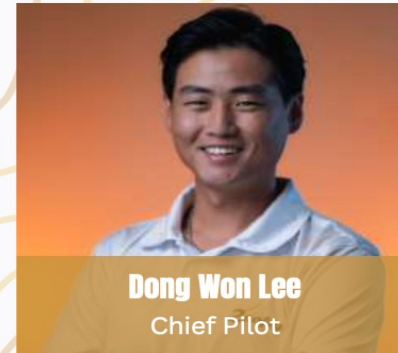
Presented by: Charlie Hermosa



Our Team



Charlie Hermosa
Chief Executive Officer



Dong Won Lee
Chief Pilot



Andrew Park
Chief Financial Officer



Javier Garrido
Project Manager



Anthony Herman
Data Processing Engineer

Key Benefits of Drones

- ▶ Speed
- ▶ Access & Safety
- ▶ Cost Savings
- ▶ Actionable Data & Documentation
- ▶ Access to NDAA/Blue Listed Drones

FAA Part 107 Training

- ▶ We are the largest drone training provider in Micronesia
- ▶ We have trained over 220 drone pilots
- ▶ By law, to fly commercially under the FAA's sUAS Rule, you must have a Remote Pilot Certificate
- ▶ We offer two flexible training options
 - ▶ Self Paced Online Course
 - ▶ In person workshop

I **UNITED STATES OF AMERICA** XI

DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION

IV NAME

XXXXXXXXXXXXXX

V ADDRESS XXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXX

VI NATIONALITY USA

SEX HEIGHT WEIGHT HAIR EYES

IVa D.O.B. XXXXXXXXX

X XX XXX XXXXX XXXXX

IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF

II REMOTE PILOT

III CERTIFICATE NUMBER

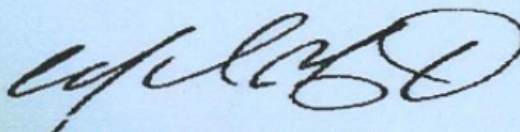
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ADMINISTRATOR



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Our Capabilities



Leica and DJI RTK base station setup on one of the locals farmland.



DJI RC Plus controller with a Side by Side view of the LiDAR capturing data



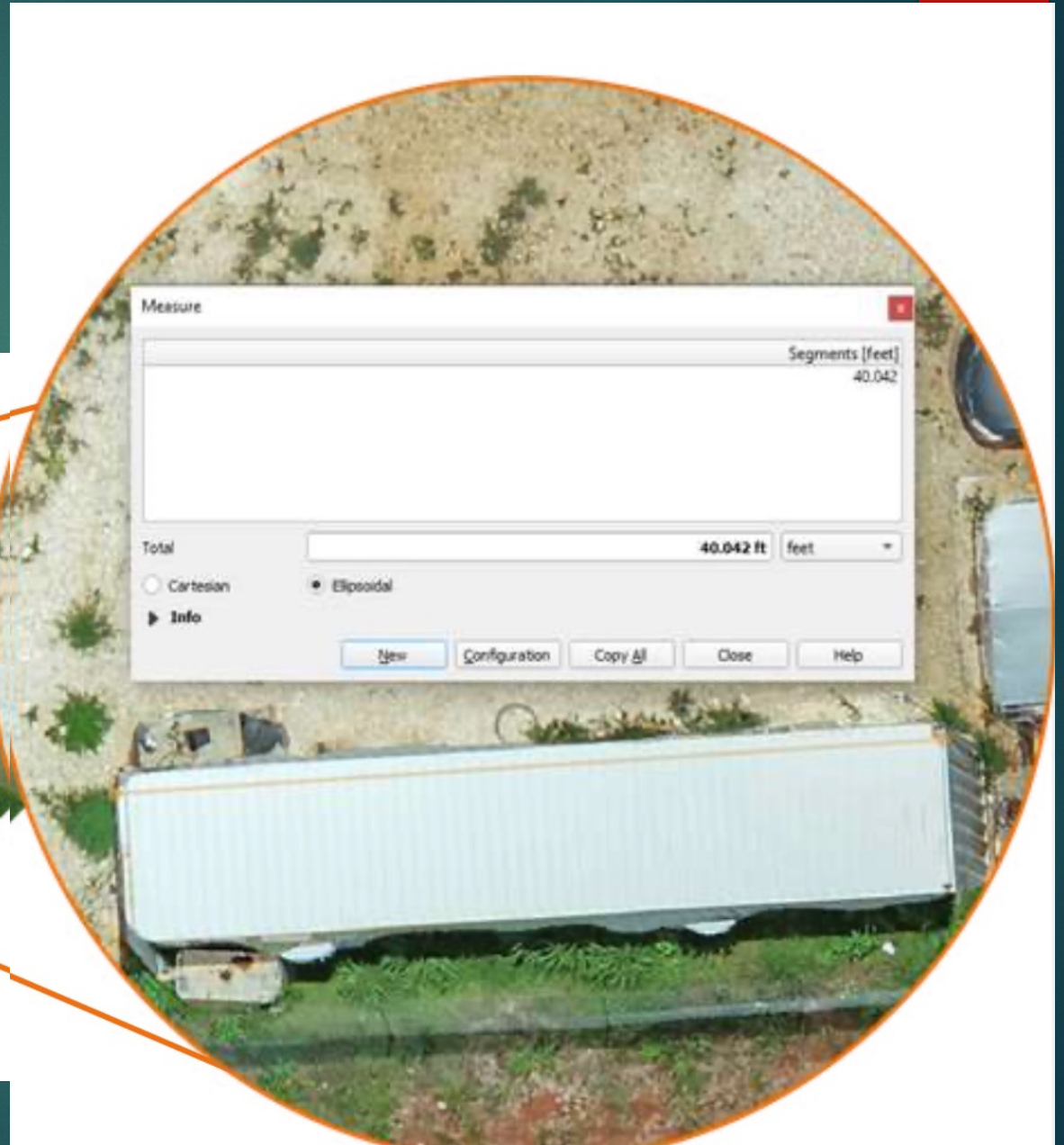
Anthony Herman standing among the foliage for better observation of the drone

Aerial Imagery – Site Photo from Above



Orthomosaic Map

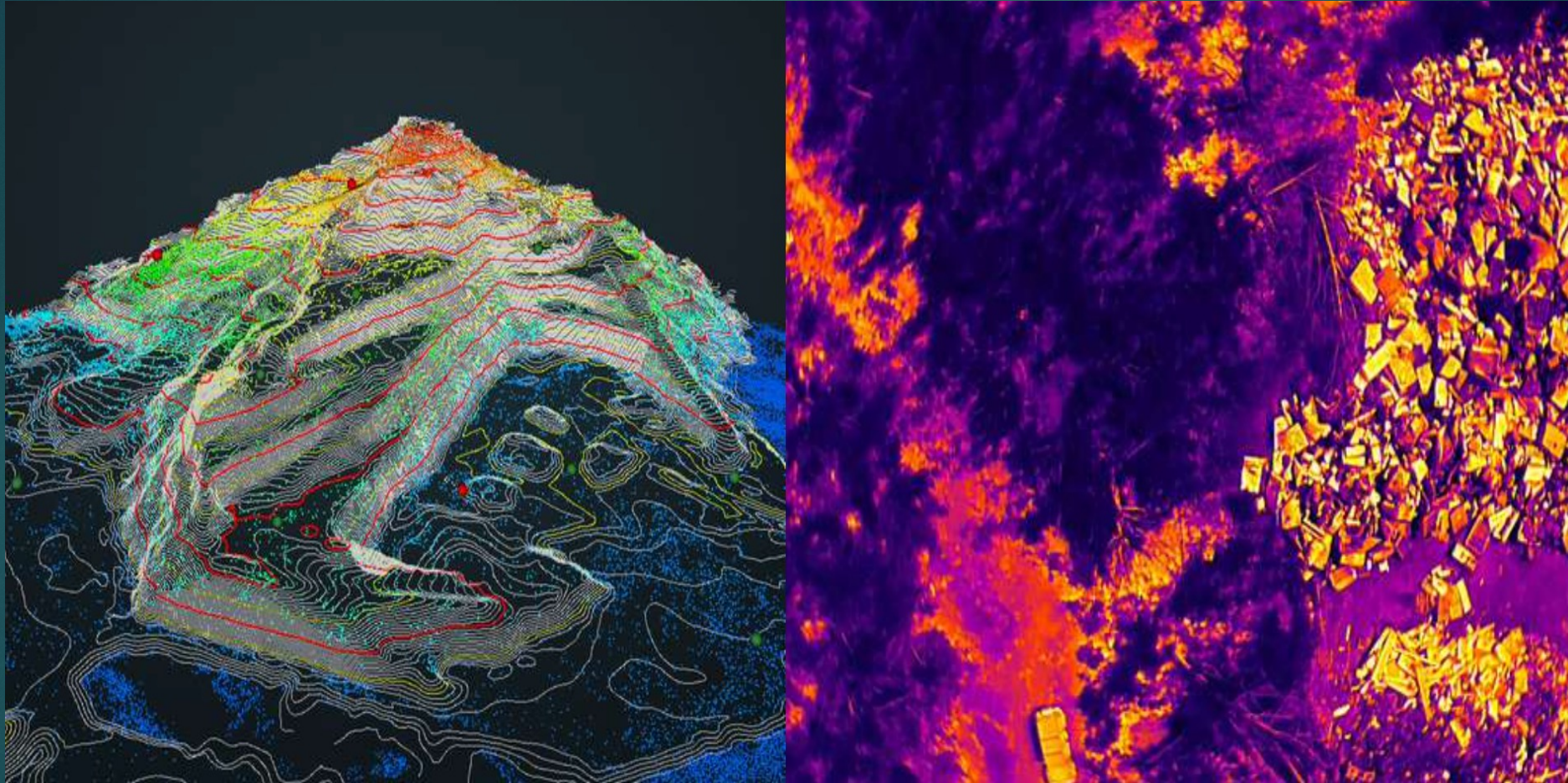
- ▶ Visual Base Layer
- ▶ Historical Documentation
- ▶ Linear Measurements
- ▶ Comprehensive site Overview
- ▶ Deviations in construction
- ▶ Operational planning



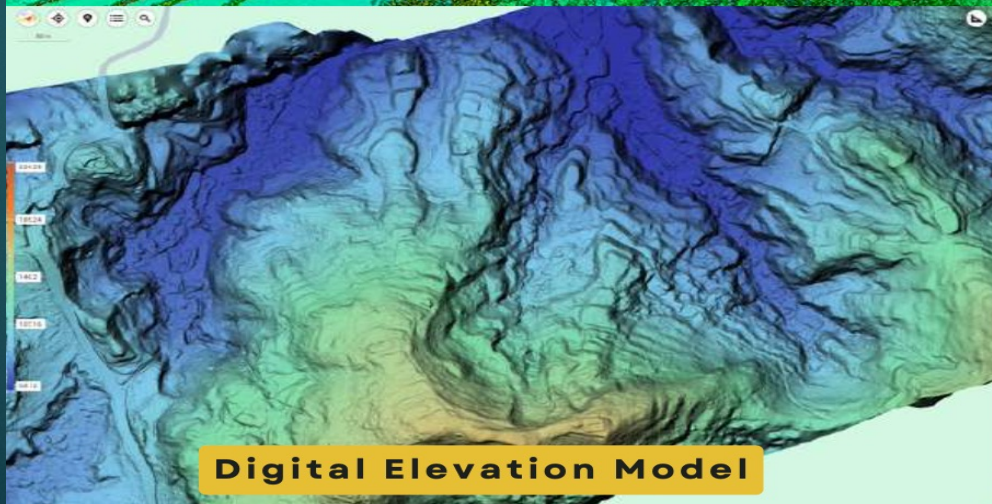
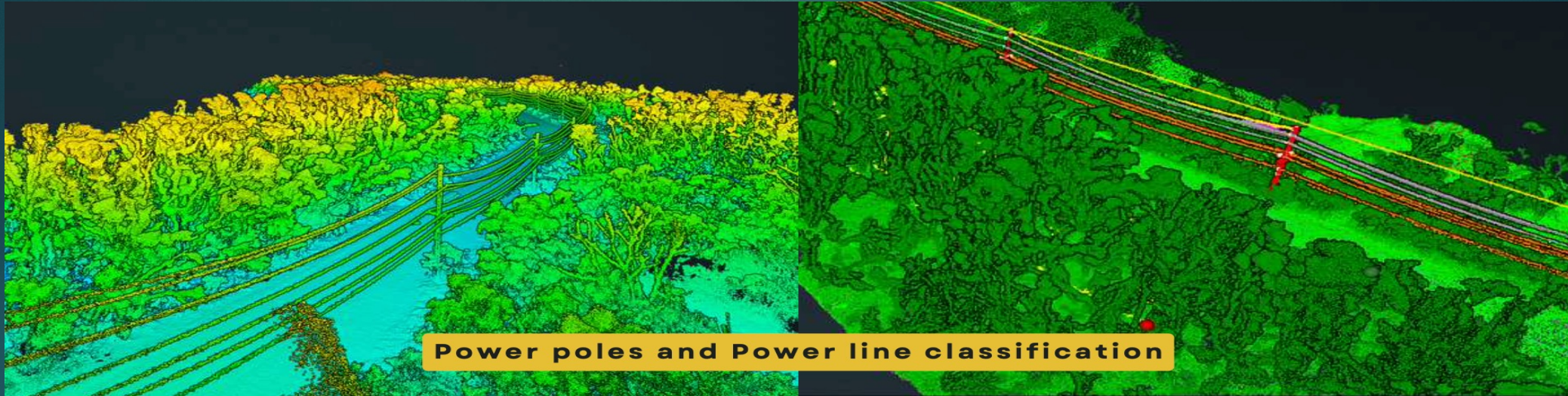
Topographic Mapping - LiDAR



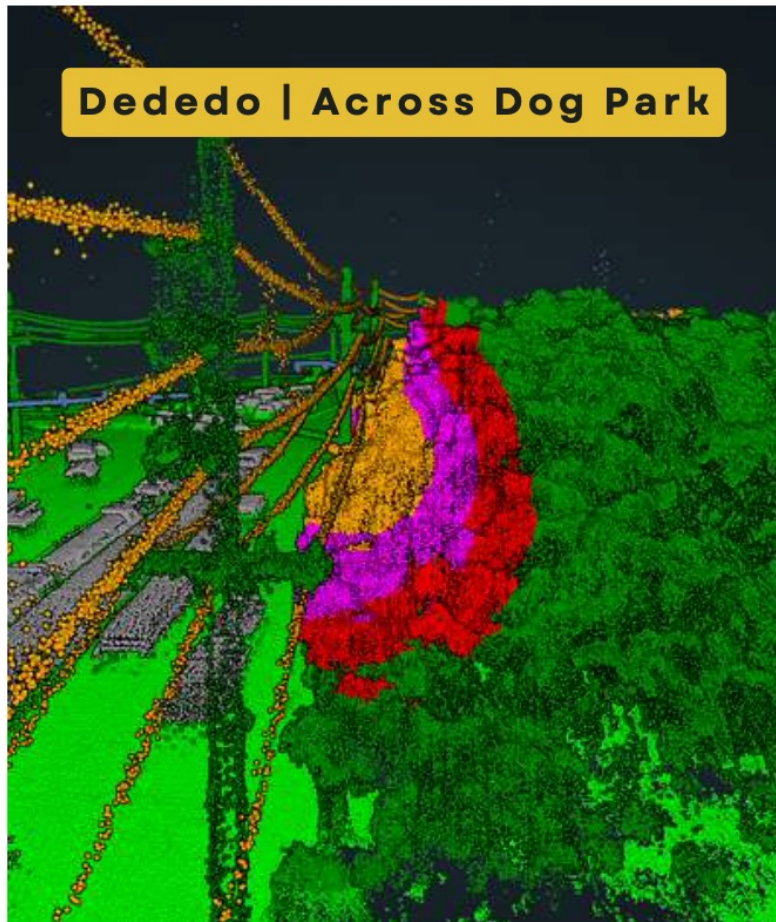
Contour Generation



Digital Twins



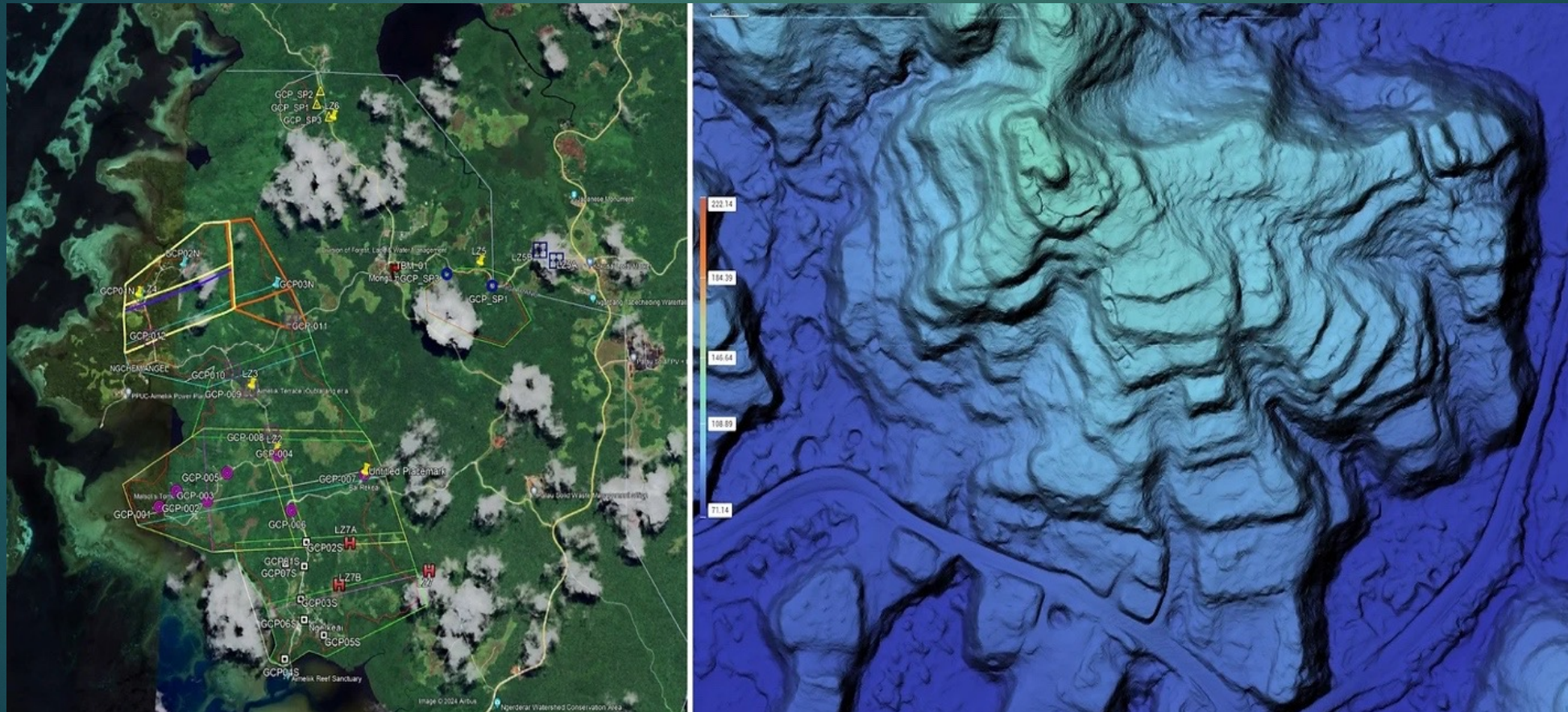
Example of AI Classification



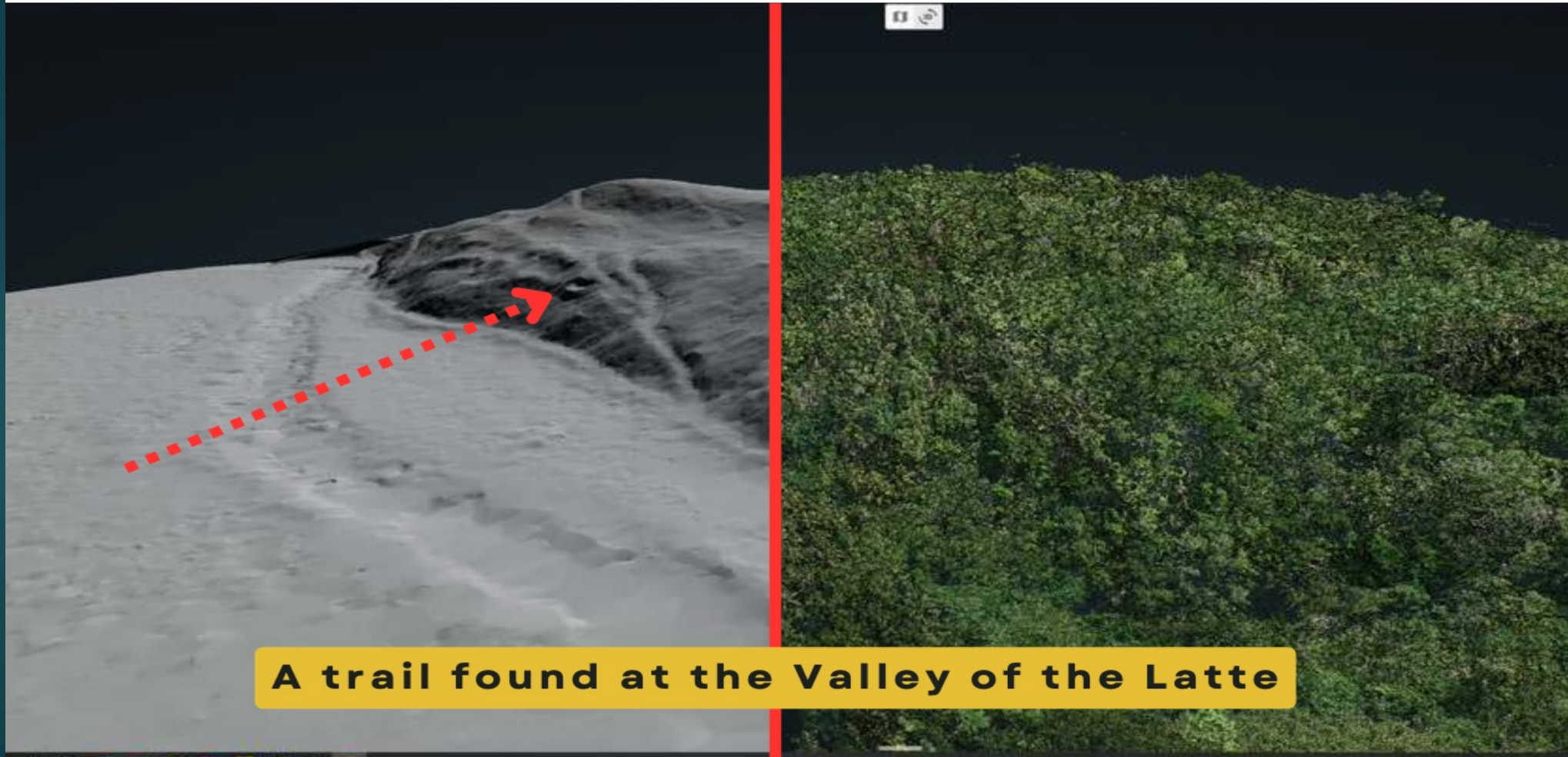
Identify vegetation encroachment based on distance to create a priority list

0-2 m Violations

Number	X	Y	Z	Number of Violations	Map link	LIDAR
1	265763.33	1495147.305	141.66	20	map	lidar
2	265753.78	1495149.12	140.61	2100	map	lidar
3	265759.43	1495147.87	141.27	6621	map	lidar
4	265885.39	1495119.08	143.11	765	map	lidar
5	265889.93	1495117.02	142.24	13013	map	lidar
6	265893.23	1495117.06	141.75	109	map	lidar



The lasers in the LiDAR sensors can penetrate vegetation to reveal the bare earth underneath.





**Pothole and road damage identification and
classification by size**

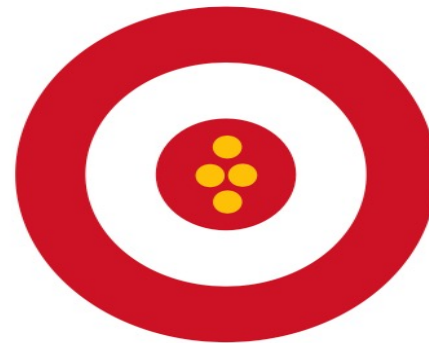
Achieving the Right Accuracy



Example of Relative Vs. Absolute



Data that has relative accuracy
has high precision



Data that has absolute accuracy has
high precision and is accurate to a
known point on earth

Drone Cleaning



What is Next?





THANK YOU