



Presented by
Freeman Dodsworth,
President of REM UAS



GAME OF DRONES

May 21, 2018

Freeman Dodsworth

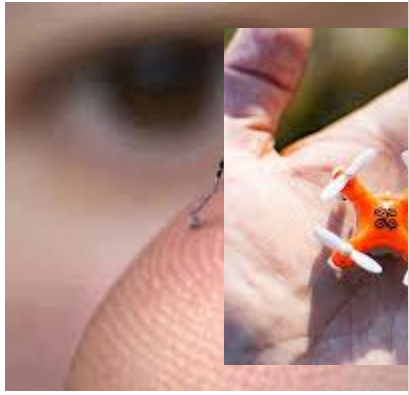
- 25 year Navy Veteran
- 2600+ flight hours
- 600+ hours in unmanned aircraft systems
- Director of Flight Operations for Contract UAS
 - One pound to 6000 pounds
 - All types of sensors
 - Rotary and fixed wing
- REM UAS
 - Consulting in the environmental, construction, educational and scientific fields

BLUF.....It's the Data, Silly!

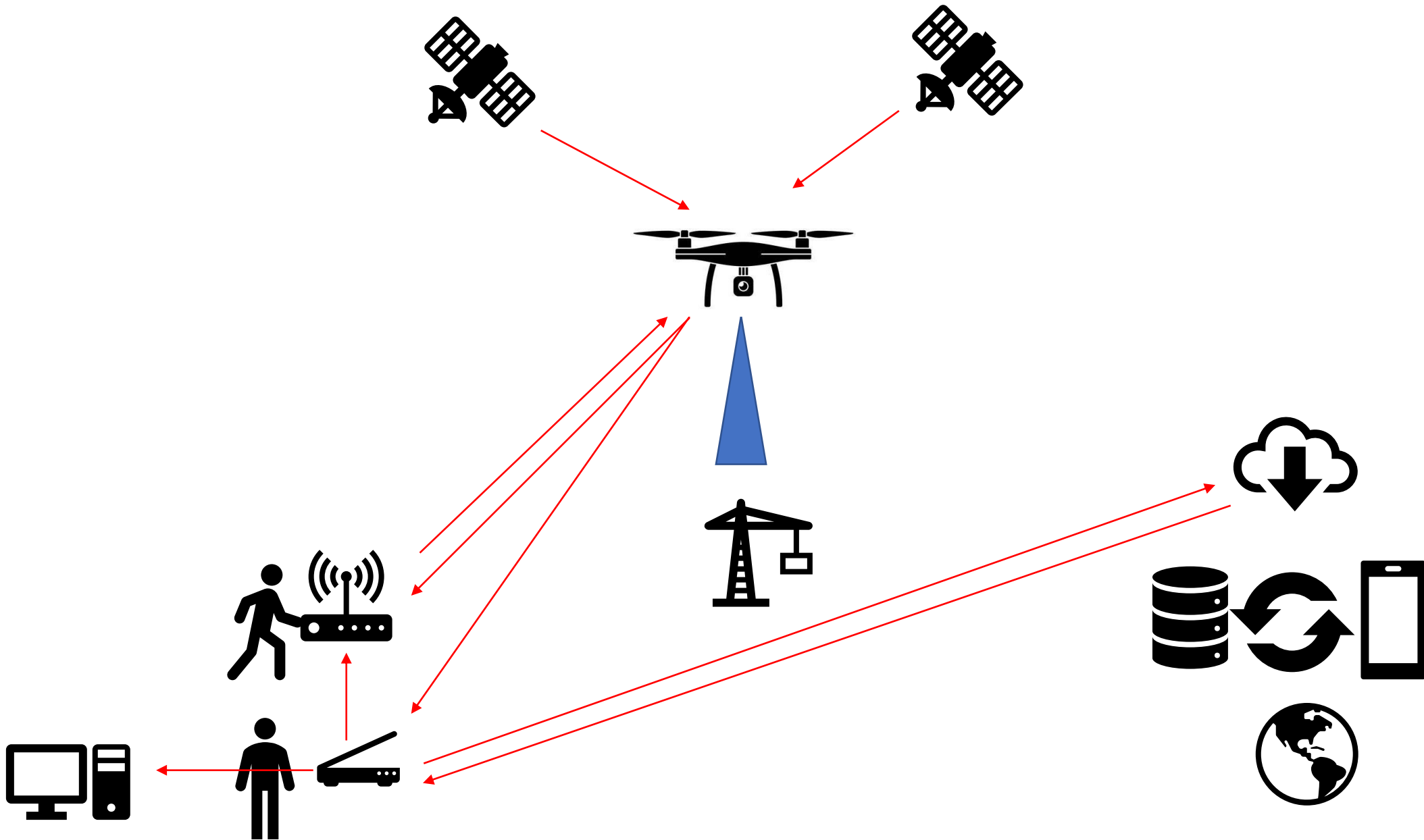
- Technology advancements have made data acquisition and processing easier
 - Drone technology
 - Sensors
 - Command and Control
 - Processing
- The goal is to provide actionable data
 - Faster
 - Cheaper
 - More accurate
 - More applicable

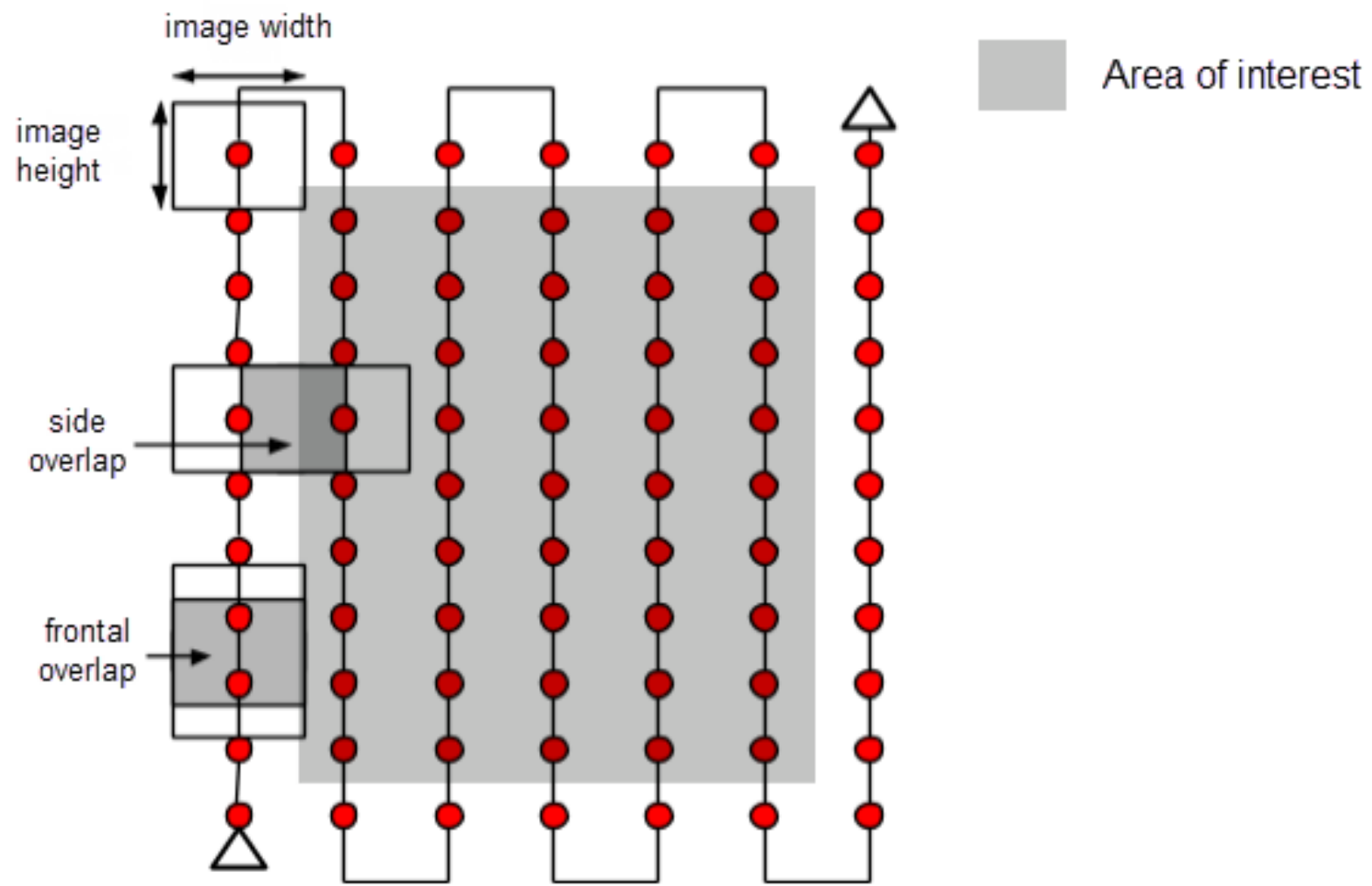
Questions You Might Have

- What is the “new” capability?
- What are the applications?
- How can we use it?
- How can we get it?







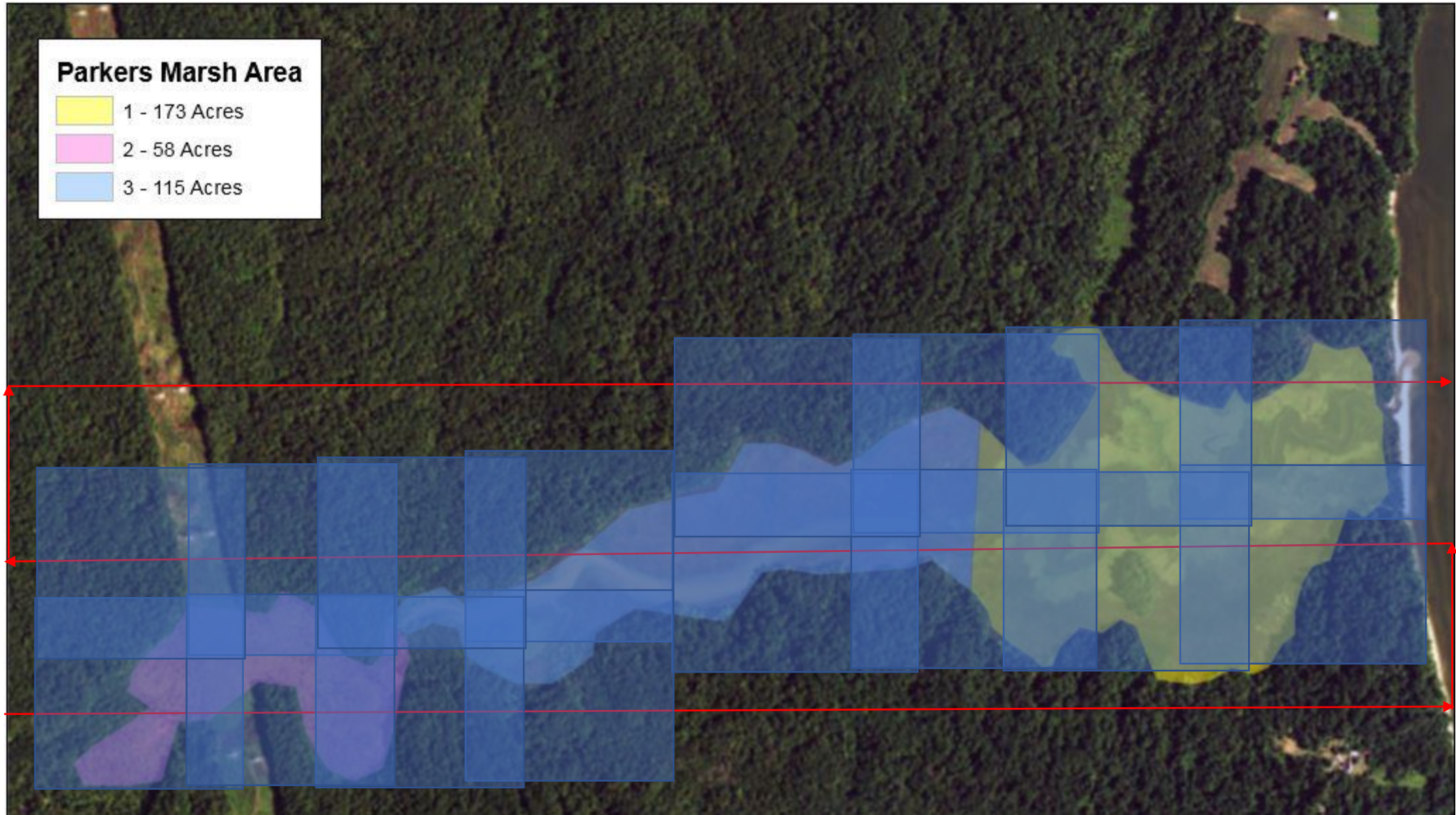


Parkers Marsh Area

1 - 173 Acres

2 - 58 Acres

3 - 115 Acres







Location



Distance



Area



Volume

Title



Area	644 m ²
Cut	507.8 m ³
Fill	-23.1 m ³
Volume	484.7 m ³

Base Plane

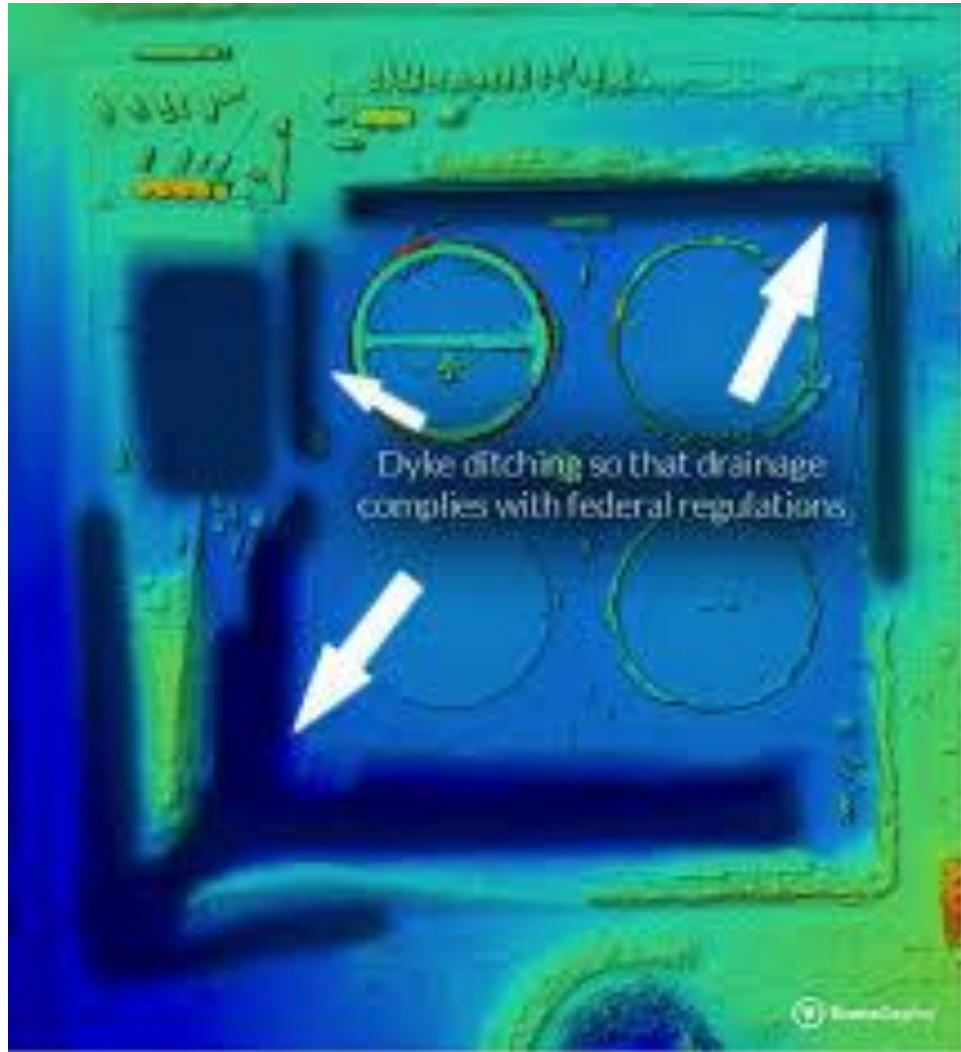
Best Fit



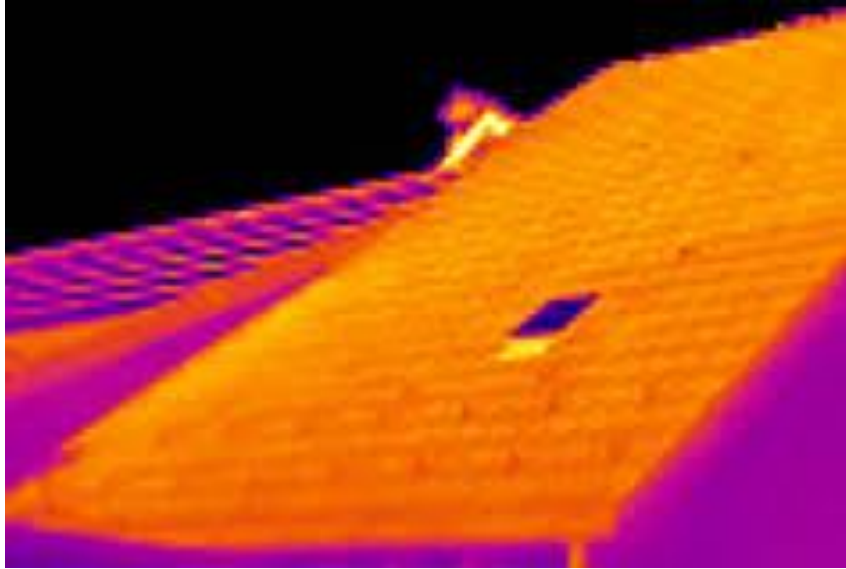
Have a conversation about this annotation with DroneDeploy users you share this map with.

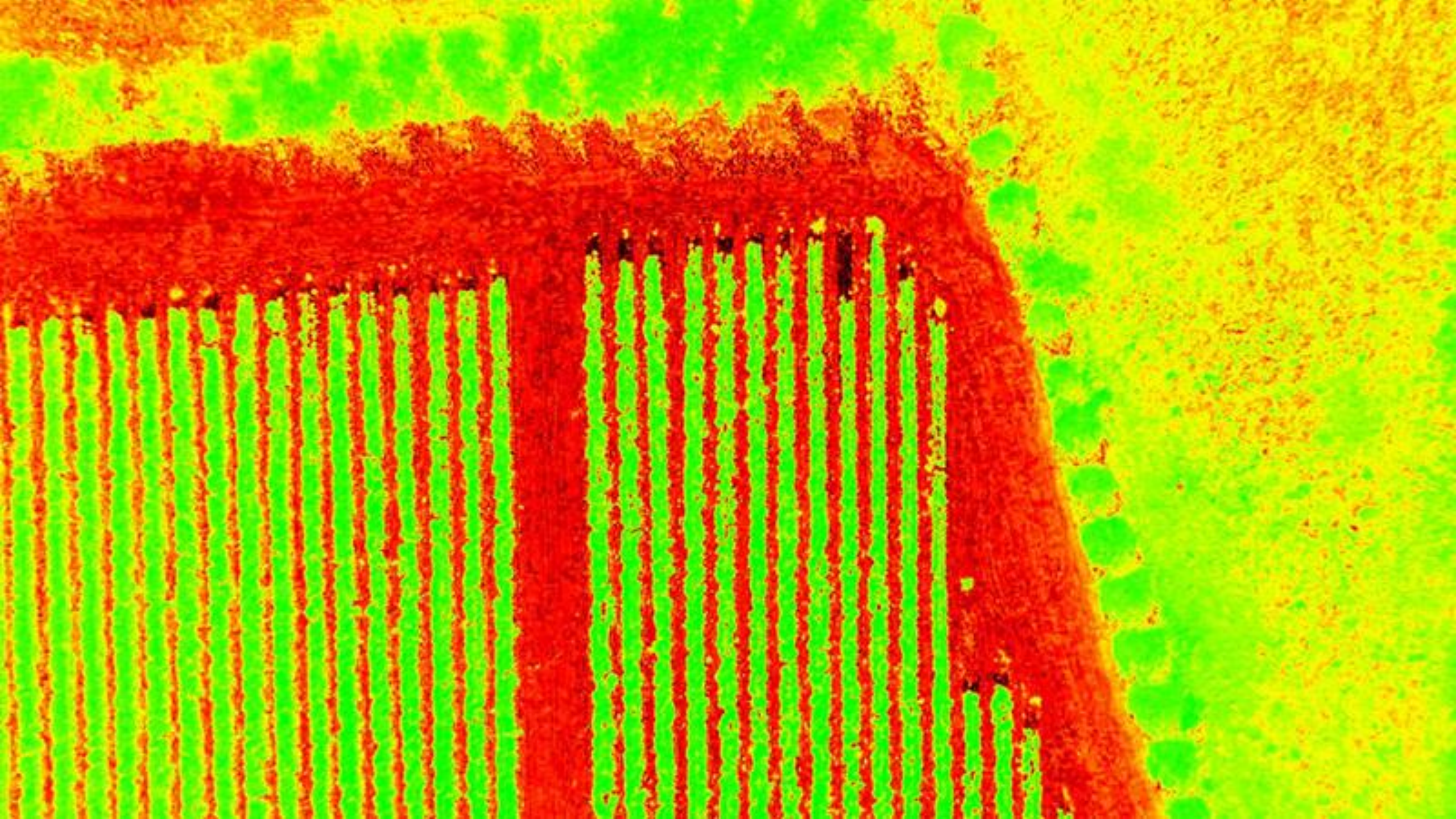
Add a comment











LiDAR

Light Detection and Ranging

- Uses Laser pulses to map the surface of the earth
- Highly accurate
- Very versatile
 - Mapping
 - Volumetrics
 - Trend analysis
 - Slopes
 - Geologic
 - Structures

Benefits

- Fast and accurate imagery/data
- GPS position to centimeters
- Trend analysis
- Creates a record for your use
- Creates a GIS record for ongoing use

Challenges

- Regulations
 - Licensed operator
 - FAA regulations
 - Airspace
 - Clearance
 - Line of sight
- Cost
 - Per hour
 - Per project

Options

- Hire a professional operator
 - Specify project requirements
 - Work priced based on contract statement of work
- Establish a drone program with the county
 - Train and qualify current employee(s) as operator
 - Purchase equipment
- Post Processing
 - Outsource
 - Purchase software
 - Use open source software



Questions?