



MIFI MAPS

Minefield Mapping Systems

*Evaluating PPP-RTK Technology for
Precision Real-Time Tracking of
Mine Clearance Operations*

Patrick Truong
Founder and Director

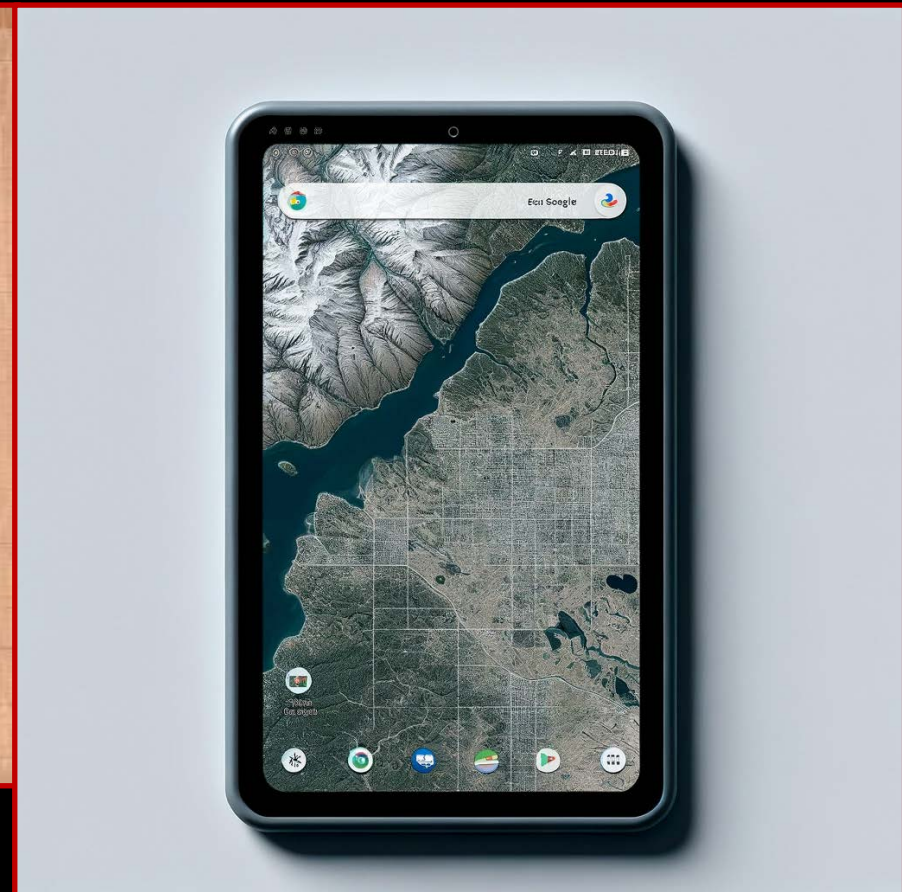
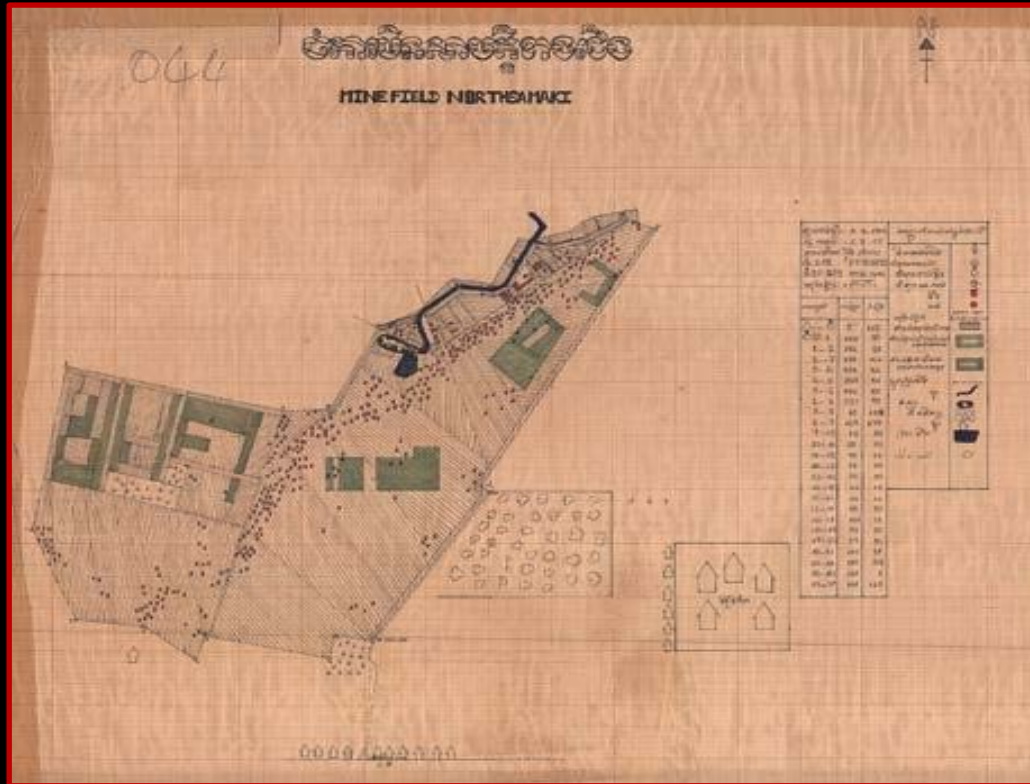
REAL-TIME KINEMATICS (2008)



REAL-TIME KINEMATICS (2008)



SKETCH MAPS TO GPS TABLETS (2014-2020)



BENEFICIARIES DESERVE BETTER



PRECISION, REAL-TIME TRACKING

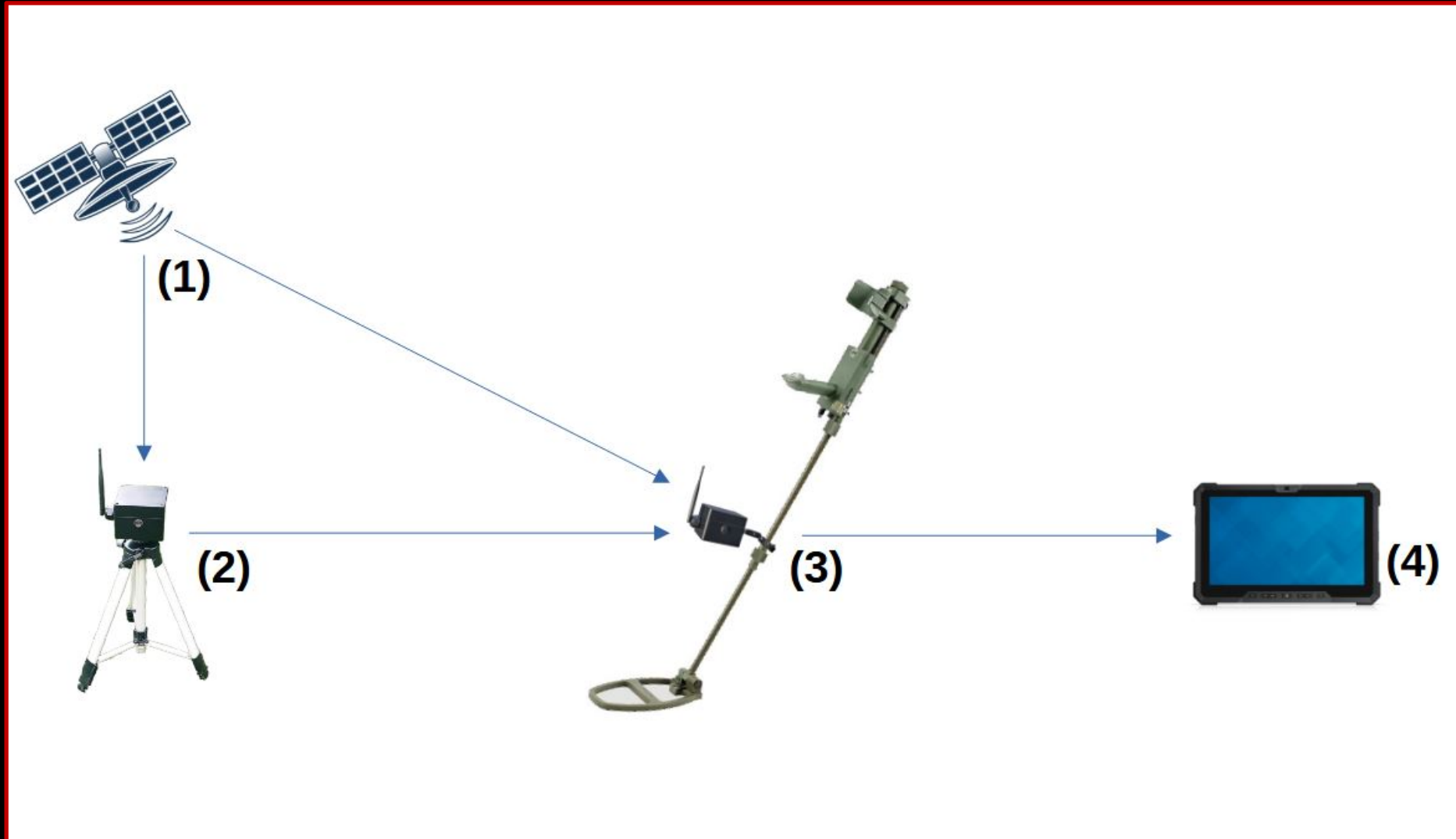
- Mapping
- Quality Assurance
- Quality Control
- Training
- Accountability



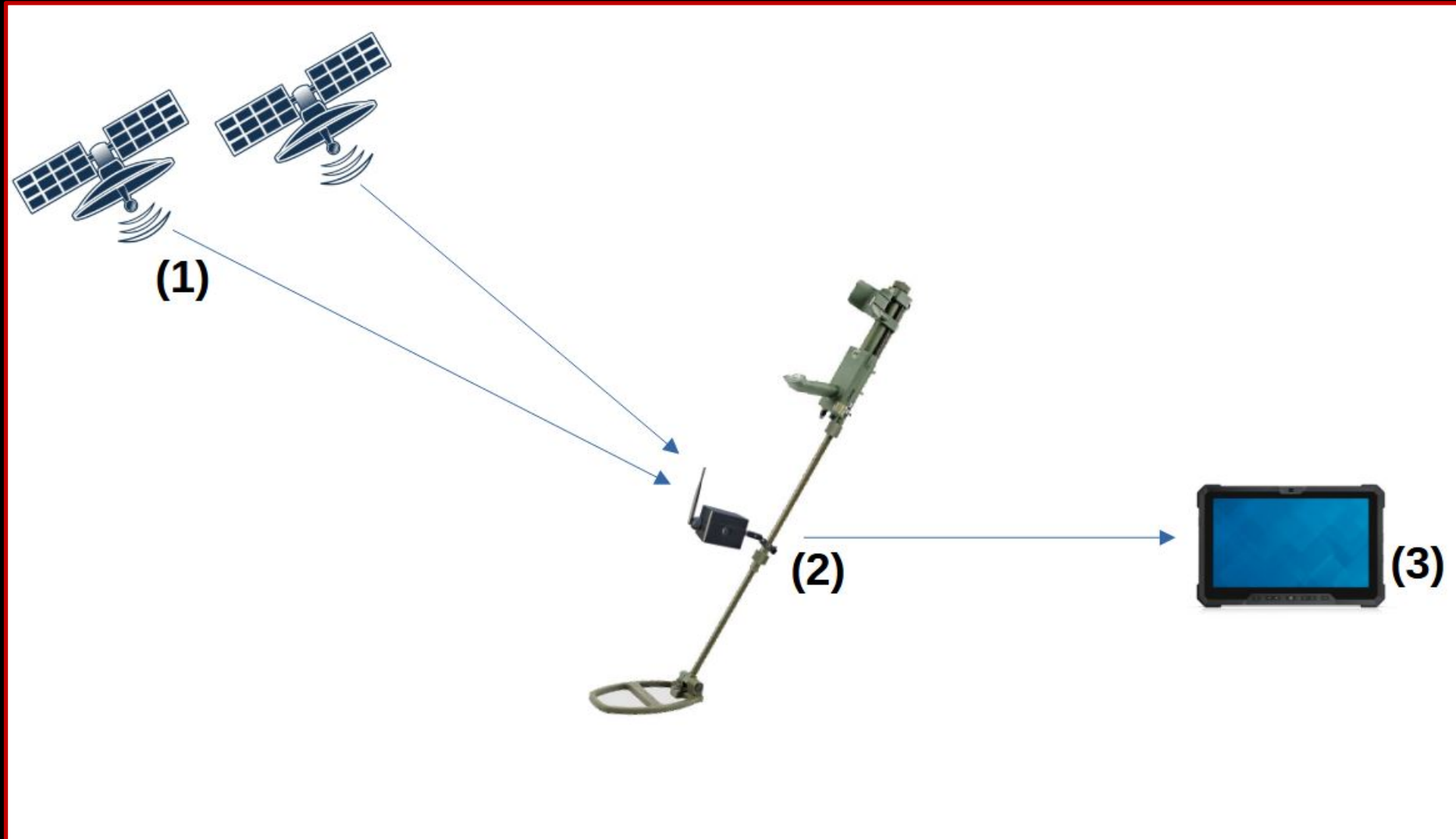
MIFI MAPS

Fast is fine, but accuracy is everything. – Wyatt Earp

REAL-TIME KINEMATICS (RTK)



PRECISE POINT POSITIONING (PPP-RTK)



PPP-RTK PROTOTYPE



METHODS



METHODS



RESULTS

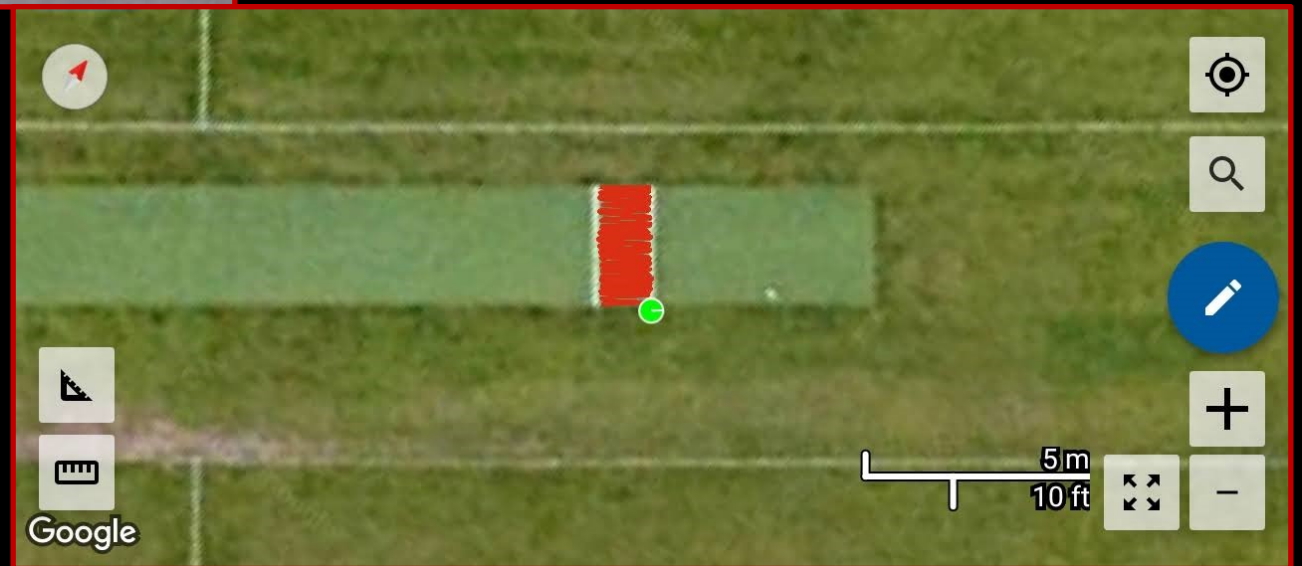


Fix Type: RTK Fix
PDOP: 0.99
HDOP: 0.6
VDOP: 0.78
Satellites in View: 35
Satellites in Use: 30

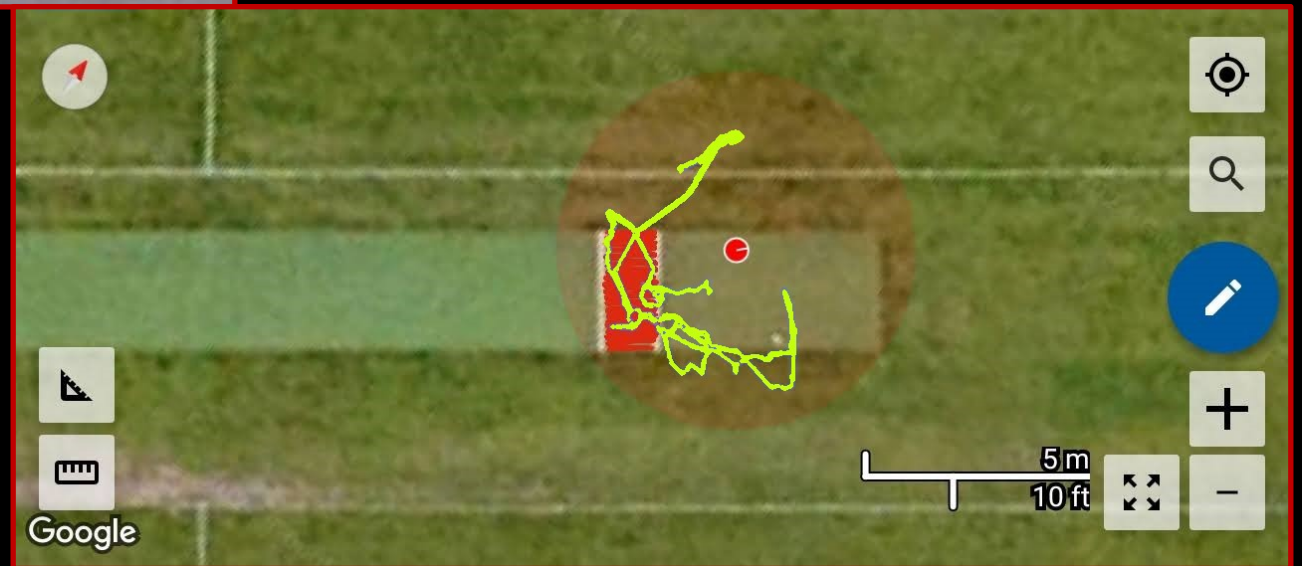
Latitude Error: 14mm
Longitude Error: 14mm
Horizontal Accuracy: 14mm
Vertical Accuracy: 27mm

Fix Type: RTK Fix
PDOP: 1.03
HDOP: 0.64
VDOP: 0.81
Satellites in View: 38
Satellites in Use: 31

Latitude Error: 14mm
Longitude Error: 13mm
Horizontal Accuracy: 14mm
Vertical Accuracy: 26mm

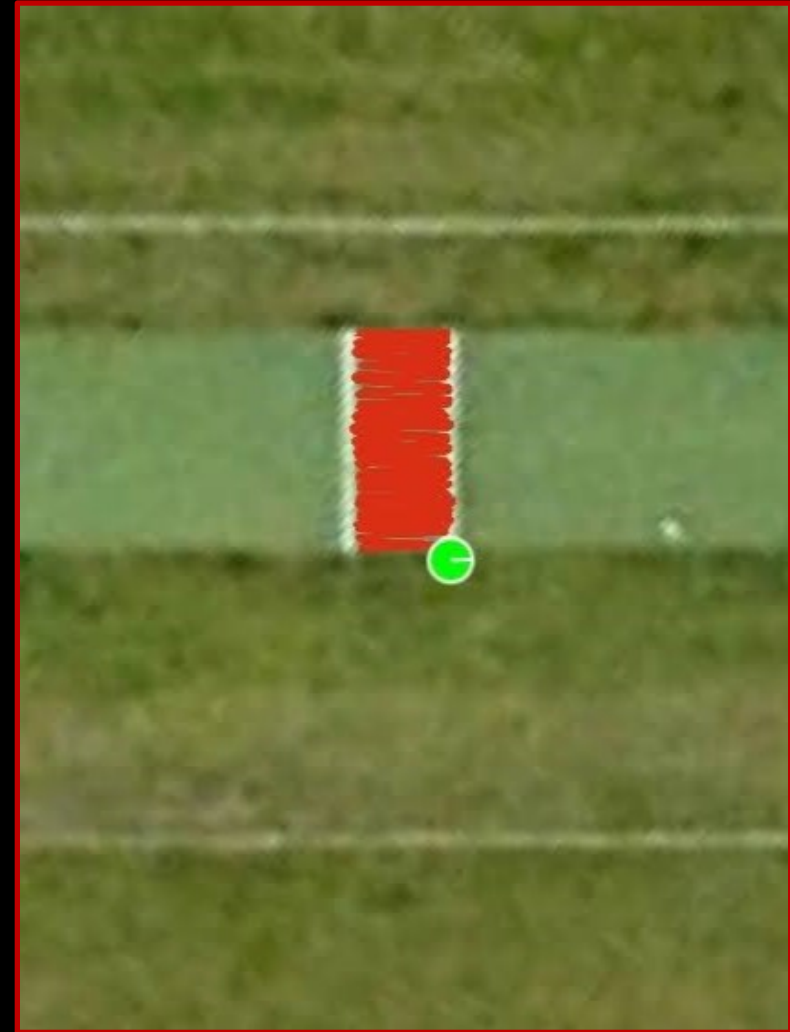


CONTROL



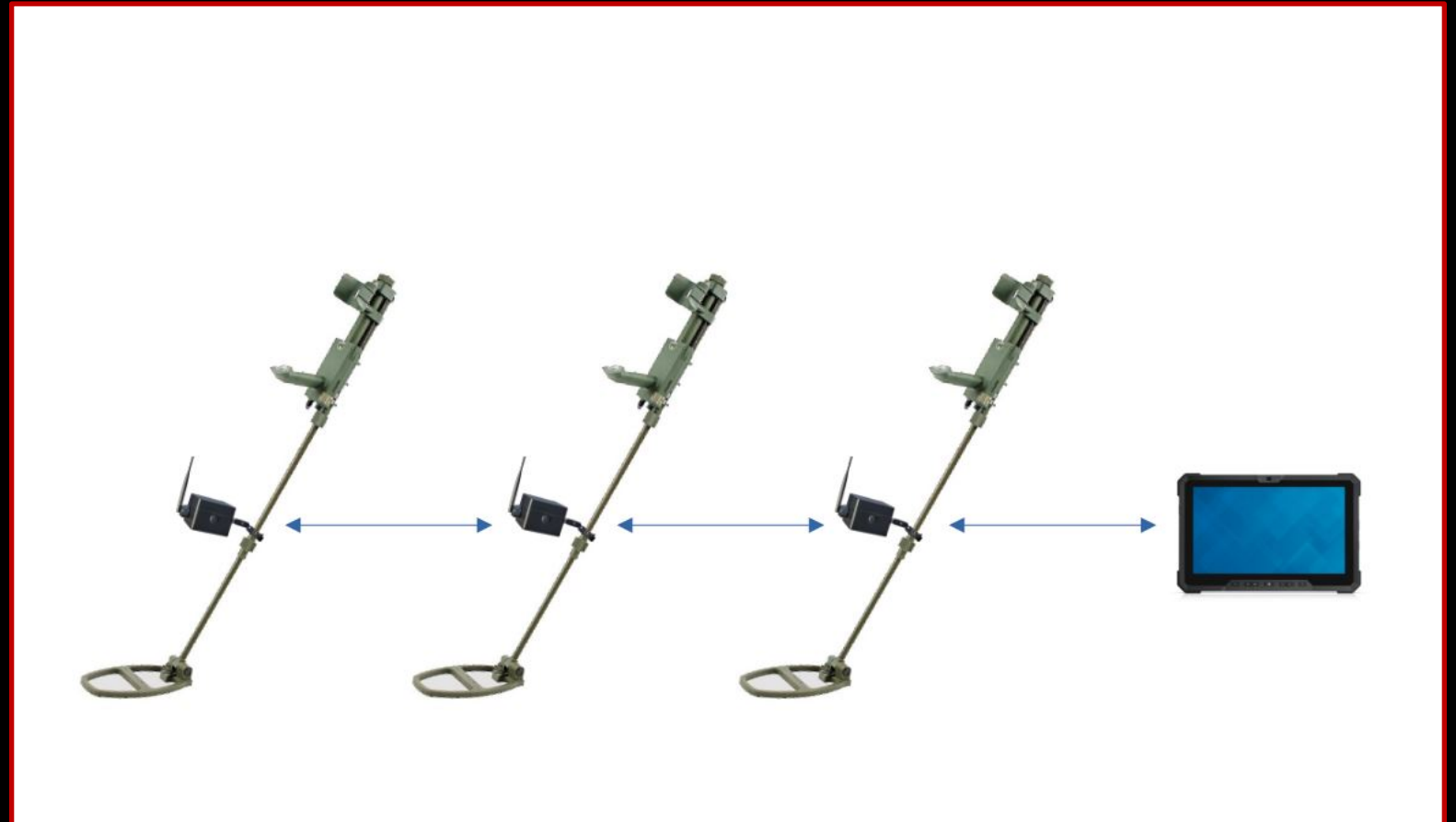
CONCLUSIONS

- PPP-RTK is viable
- Faster to Deploy
- Limited satellite coverage
- More expensive



NEXT STEPS

- Further Funding
- Further Development
- Production Models
- Field Testing



COMPANY

- Founded in Manchester, UK in July
- Debuted at GICHD in November
- Partial funding via Innovate UK



THANK YOU

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