Landmine detection using AI

Corporate Presentation
CSE: WIN
OTC: WINKF
FWB:L7C2

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WINDFALL GEOTEK

Our Directors

Michel Fontaine
President, CEO & Chairman

Mr. Fontaine is the founder of Windfall in 2005 and previously served as its president and CEO from 2015 and 2021. Prior to founding the company, Mr. Fontaine worked at Merrill Lynch and BMO Nesbitt Burns Inc. as a financial adviser. Mr. Fontaine also has extensive experience serving on the boards of public mining companies and has served on the board of Puma Exploration Inc. (TSX-V: PUMA) since 2020..

Marcel Robillard
Director

Mr. Robillard is an experienced geologist with over 25 years of experience in the mining industry. He has been the president and chief executive officer of Puma Exploration Inc. (TSX-V: PUMA) since 2009. Mr. Robilliard also serves on various boards of public mining companies, including Canadian Copper Inc. (CCI: CSE) and PEZM Gold Inc. (TSX-V: PEZM.H) and previously served as a director of BWR Exploration from 2016 to 2020.

Mario Drolet
Director

Mr. Drolet is a seasoned finance professional with over 30 years of experience across capital markets and investor relations globally. He is the founder and president of MI3 Financial Communications Inc., in which capacity he has worked with numerous mining companies providing financial communication and market intelligence services.

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#1 AI in Mineral Exploration Since 2005

Longest standing public AI company in mineral exploration

The Pathfinder

Since 2005

200+
Service
Contracts

37+
Client
discoveries

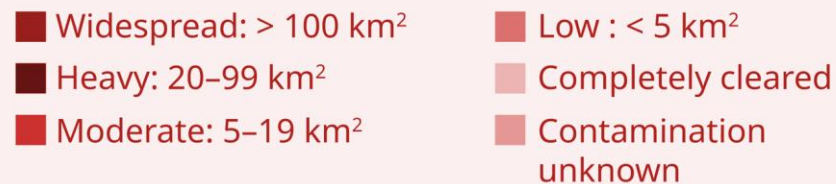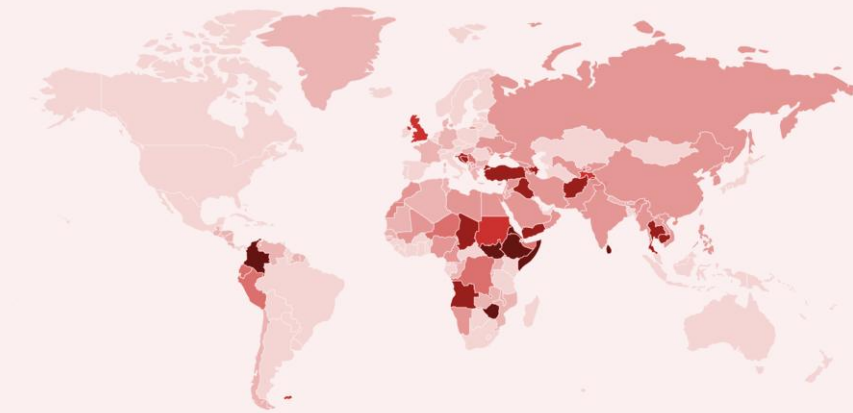Data's from Drones will be used by everyone in the future in the Mining sector and for Landmine Detection

Discovery section coming soon to

www.windfallgeotek.com

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The Opportunity

Worldwide land mine contamination

■ Widespread: > 100 km² ■ Low : < 5 km²
■ Heavy: 20–99 km² ■ Completely cleared
■ Moderate: 5–19 km² ■ Contamination unknown

Source: Landmine and Cluster Munition Monitor / ICBL (International Campaign to Ban Landmines) | September 2019

Land mines

- Over 100M buried landmines - over 3000 km² [1]
- Metal, plastic and wood
- Unlock natural resources

Technology Development

- Drones are becoming ubiquitous
- Data collection and analysis at the edge is becoming increasingly powerful

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The Approach

Drones

- Low cost, & lightweight
- Can carry multiple sensors
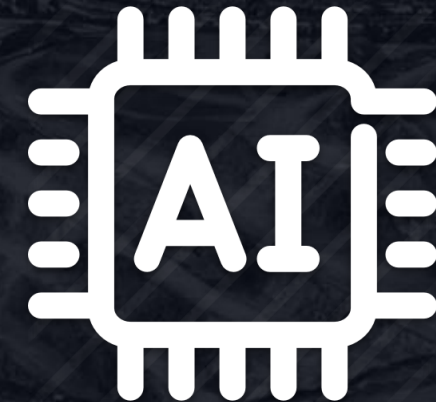- Synchronized drone swarms with multiple sensors

Sensors

- Magnetic
- LIDAR
- Infrared
- Hyperspectral

Big data and AI

- Use multi sensor data to drive insights
- Use advanced AI techniques to find anomalies with the layered data approach

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The Approach

Geofenced Data

- **Mineral Occurrences** (x,y)
- **Geophysics** (x,y)
- **Geochemistry** (x,y)
- **Topography** (x,y)
- **Satellite Imagery** (x,y)
- **Geology** (x,y)
- **Faults** (x,y)
- **Spatial Data** (x,y)

Data Compression

Data Interpretation

Data Treatment

Variable Generation

New Attributes Added

Statistical Training Process

Scoring Process

Prospectivity Map

Data is entered into the Computer Aided Resources Detection System (CARDS) in the form of geo-referenced database.

Each point in the database is linked to its own set of characteristics extracted from geological maps, geophysical surveys, drill results, assays etc.

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Test 1: Langley BC, March 2020 - Simulated TM-62 Tank mine

Objective: Detect a TM-62 Tank mine using a drone with a magnetometer sensor

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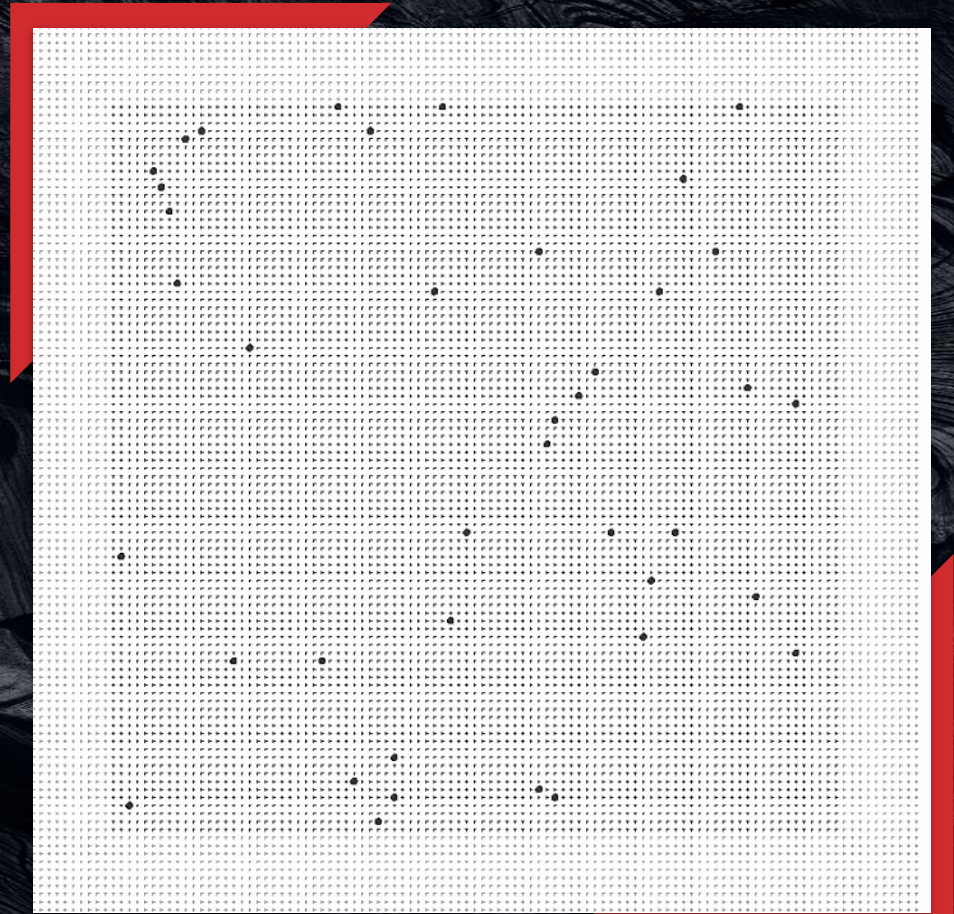
Test 1: Langley BC - Magnetic Results

Test 2: Nevada Desert, May 2020 -

Objective: Detect buried metallic objects using a drone with a magnetometer sensor

Set up: Use 20 metal cast iron pans disposed in a precise pattern.
Terrain was rugged by choice and conditions were windy.

Results: Drone magnetic survey was able to provide us with the exact X & Y coordinates of each of the 20 metallic object

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Test 2: Nevada desert, May 2020

Test 3: Surrey BC, February 2021

Objective: Detect buried metallic objects using a drone with a magnetometer sensor
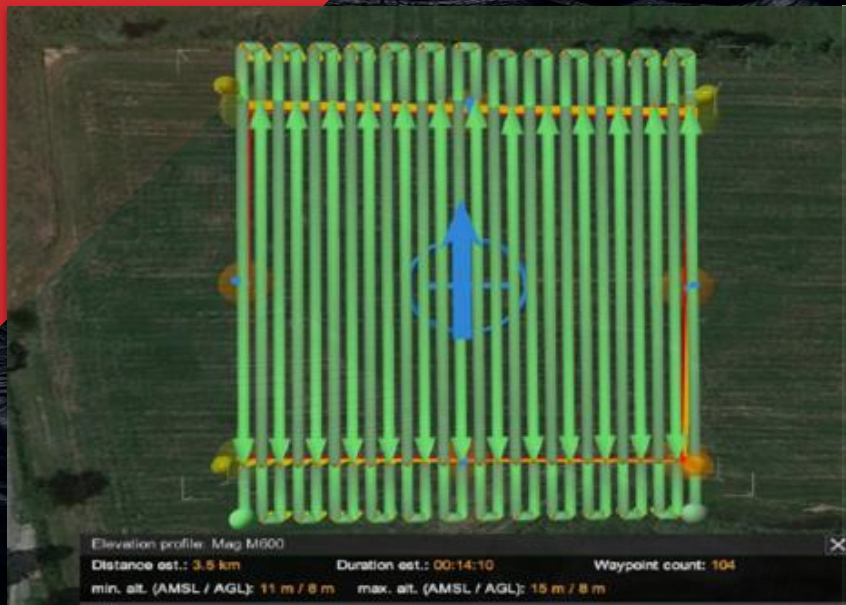
Set up: Use of 40 metallic item displayed in a random order

Results: Drone Mag survey was able to provide us an indication of the 40 metallic objects

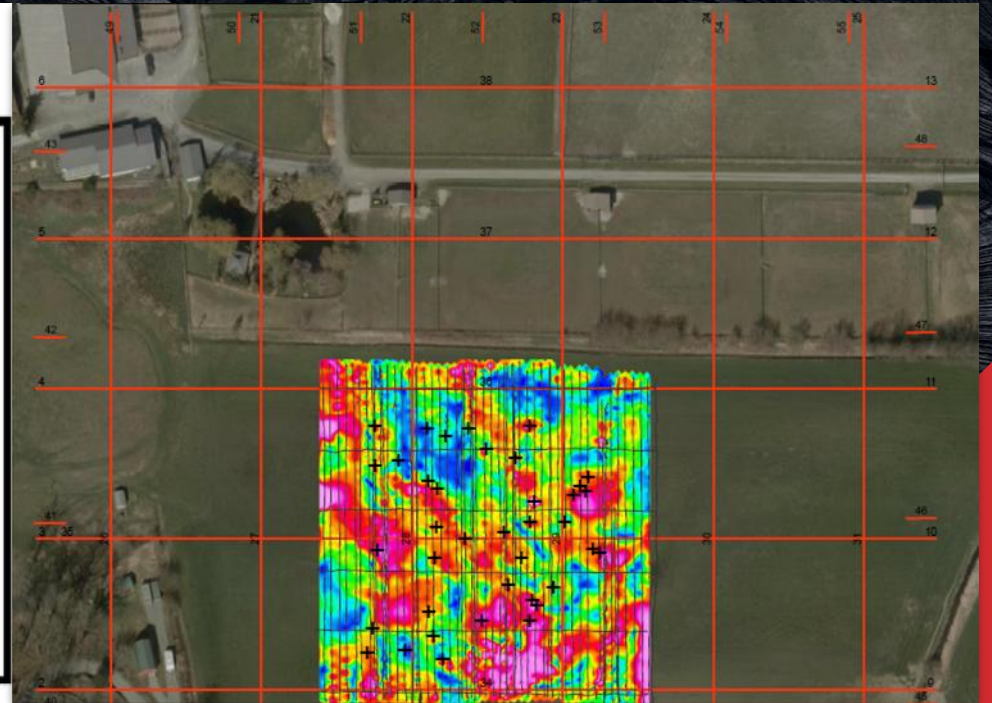*****Confidential. Do not distribute*****
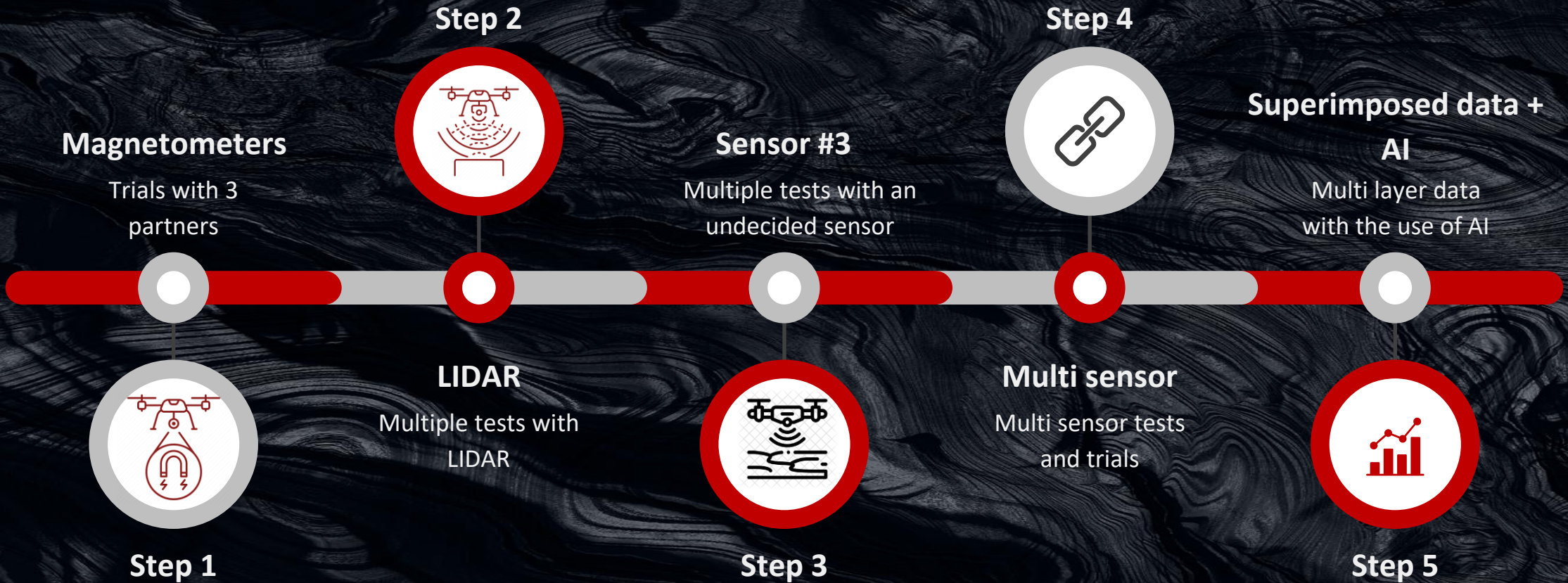
Test 3: Surrey B.C, February 2021 - Flight path & Setup

Test 3: Surrey, B.C - Results

Target Description : The targets were 40, 6 inch by 6 inch metal plates randomly placed in the survey area.

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Development Roadmap

Step 2

Magnetometers

Trials with 3
partners

LIDAR

Multiple tests with
LIDAR

Step 1

Sensor #3

Multiple tests with an
undecided sensor

Step 3

Step 4

**Superimposed data +
AI**

Multi layer data
with the use of AI

Multi sensor

Multi sensor tests
and trials

Step 5

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twitter.com/WGeotek

in

Michel@windfallgeotek.com

Windfall Geotek Inc.
7005 Taschereau Boulevard,
Suite 265, Brossard, Québec, J4Z 1A7

www.windfallgeotek.com

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