

Everything Is Somewhere

GPS, Drones & Location intelligence

SWANA 2022

Luke Dixon - Intro

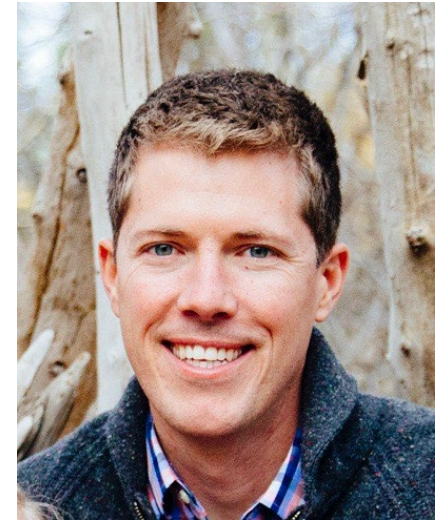
- Professional Land Surveyor.
- 18 Years of Experience Providing Survey Services.
- Founded Civil Tracker in 2018 to help everyone become a drone surveyor.
- Transport Canada Advanced Drone Pilot
- Supervised 3,000+ flight 30+ pilots

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CIVIL TRACKER

global
raymac
surveying &
engineering

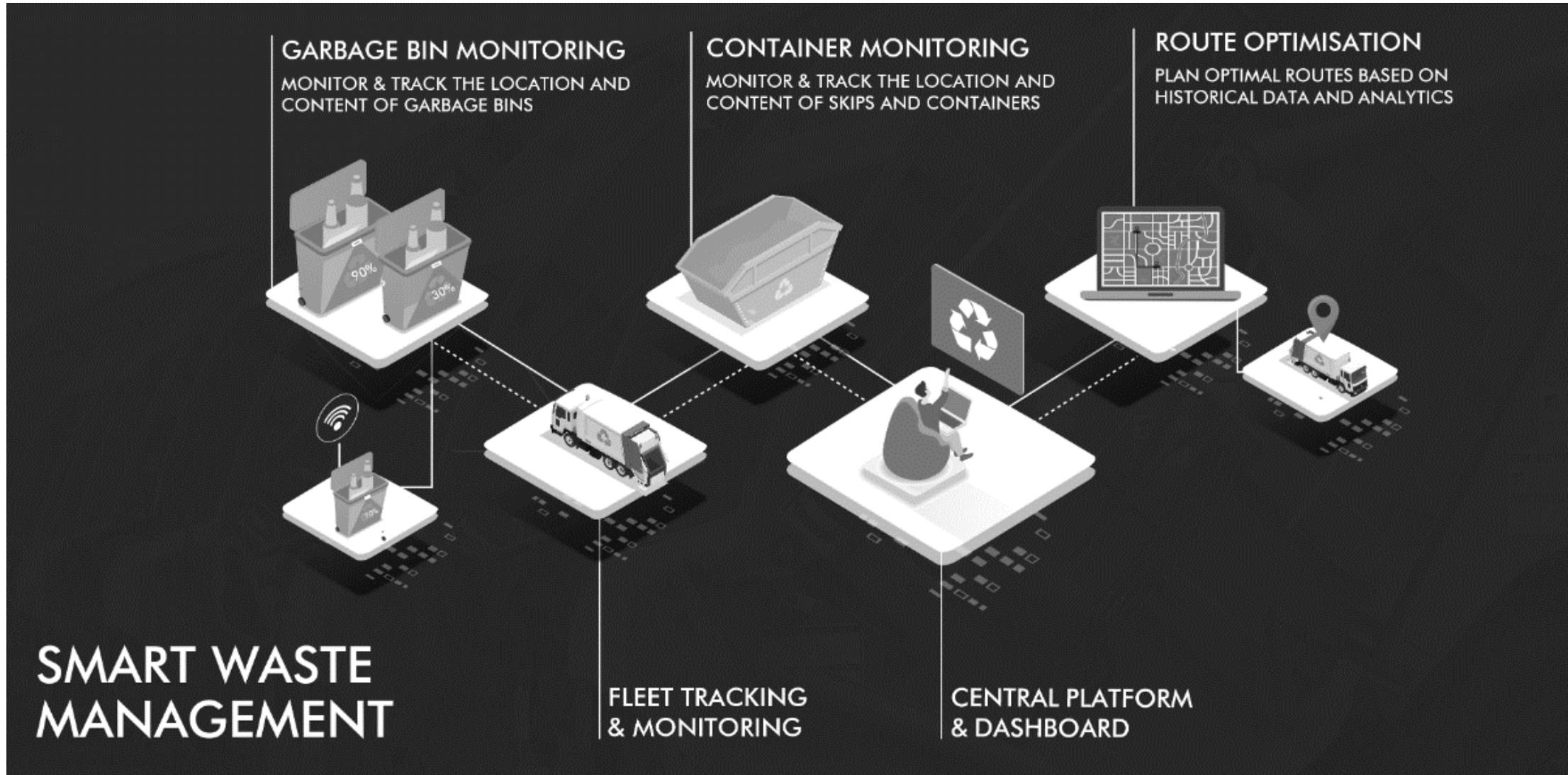
Before GPS there was A.O. Wheeler



A short History of GPS 1989 to Today



Bringing GPS and IOT together



On Site and in Cell

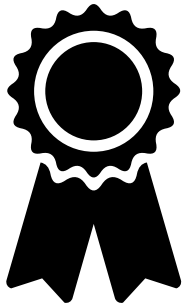


Bringing GPS and Drones together

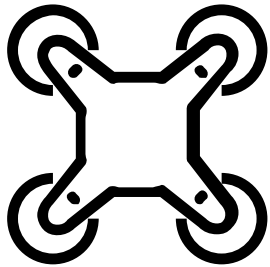


6 Steps to Start Drone Mapping

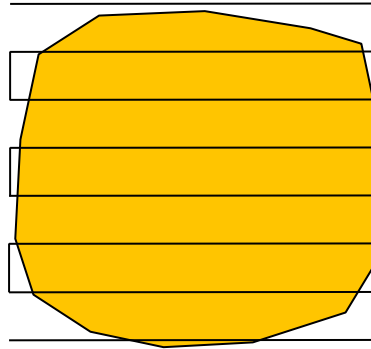
Regulatory



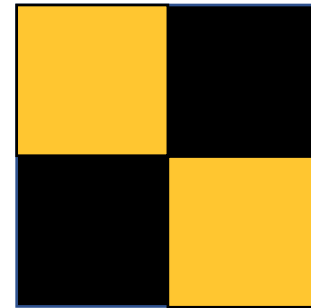
Drone



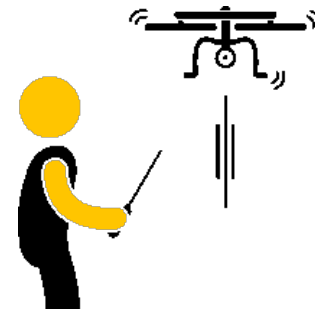
Plan



Site Setup



Fly



Map &
Measure



Regulatory Requirements – Transport Canada

Micro Drone
<250g

Small Basic
250g – 25kg

Small Advanced
250g – 25kg

- Further than 5.6km from an airport
- 1.9km from a heliport
- 30m from bystanders

- Within controlled airspace (Calgary)
- Near People
- Over people with approved drone

No
Certification
Required

Small Basic
Certification

Advanced
Certification

Drone Hardware



Mavic Mini



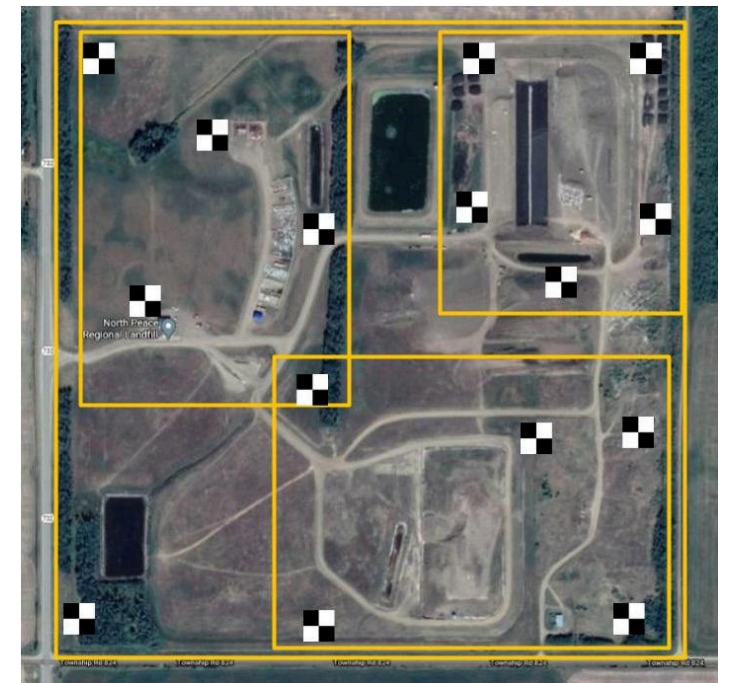
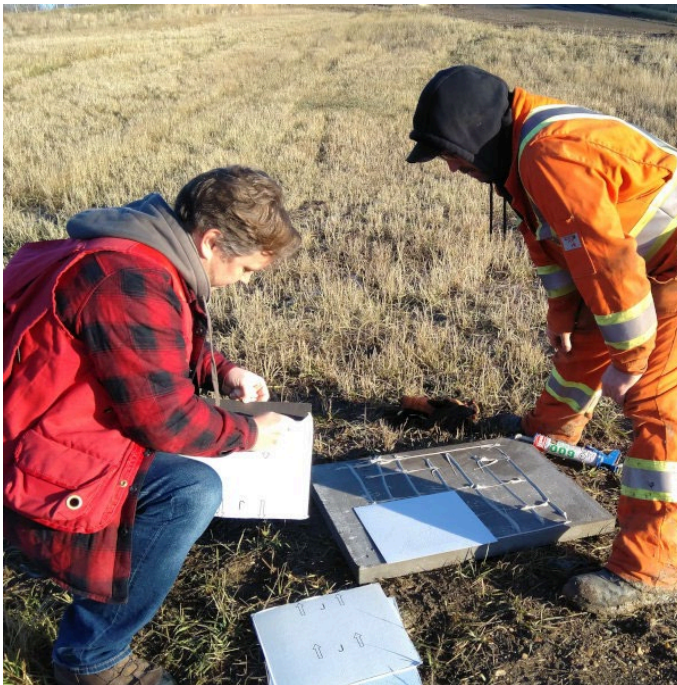
Phantom 4



M300/L1

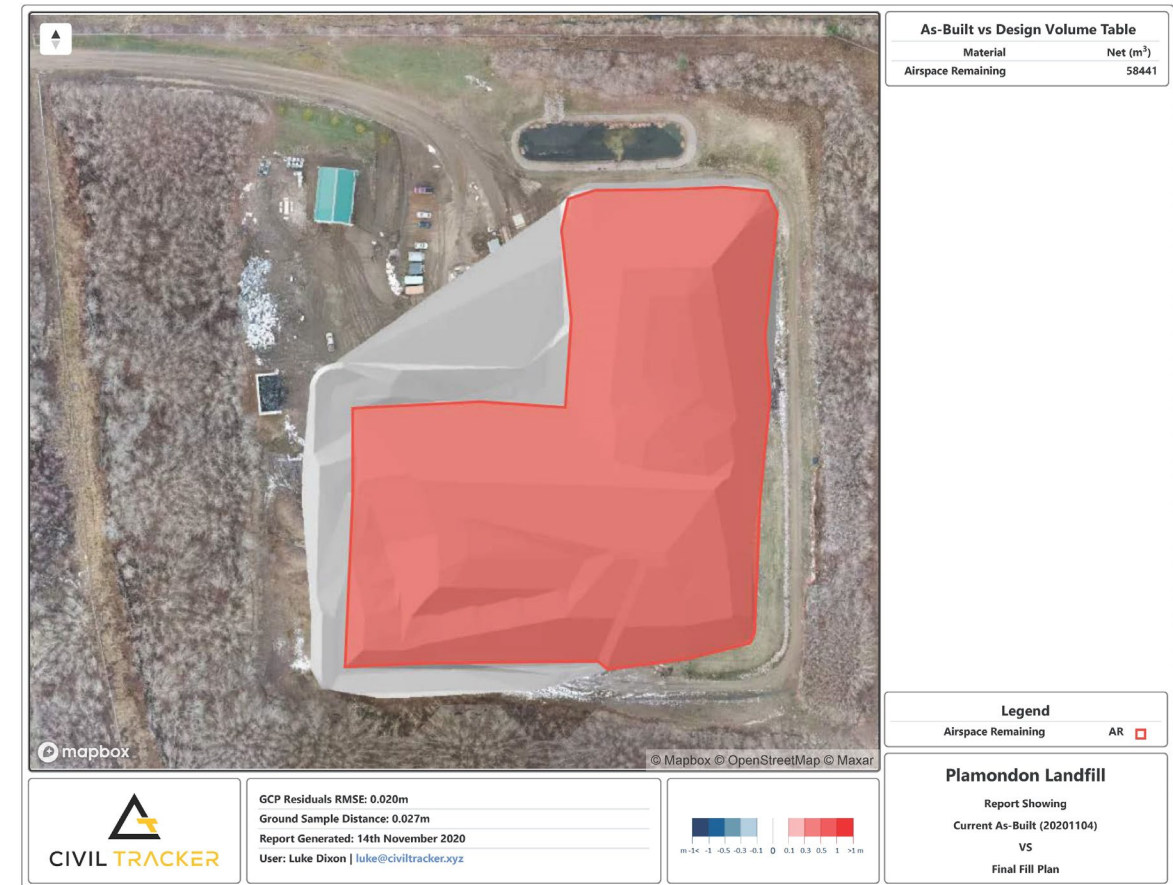
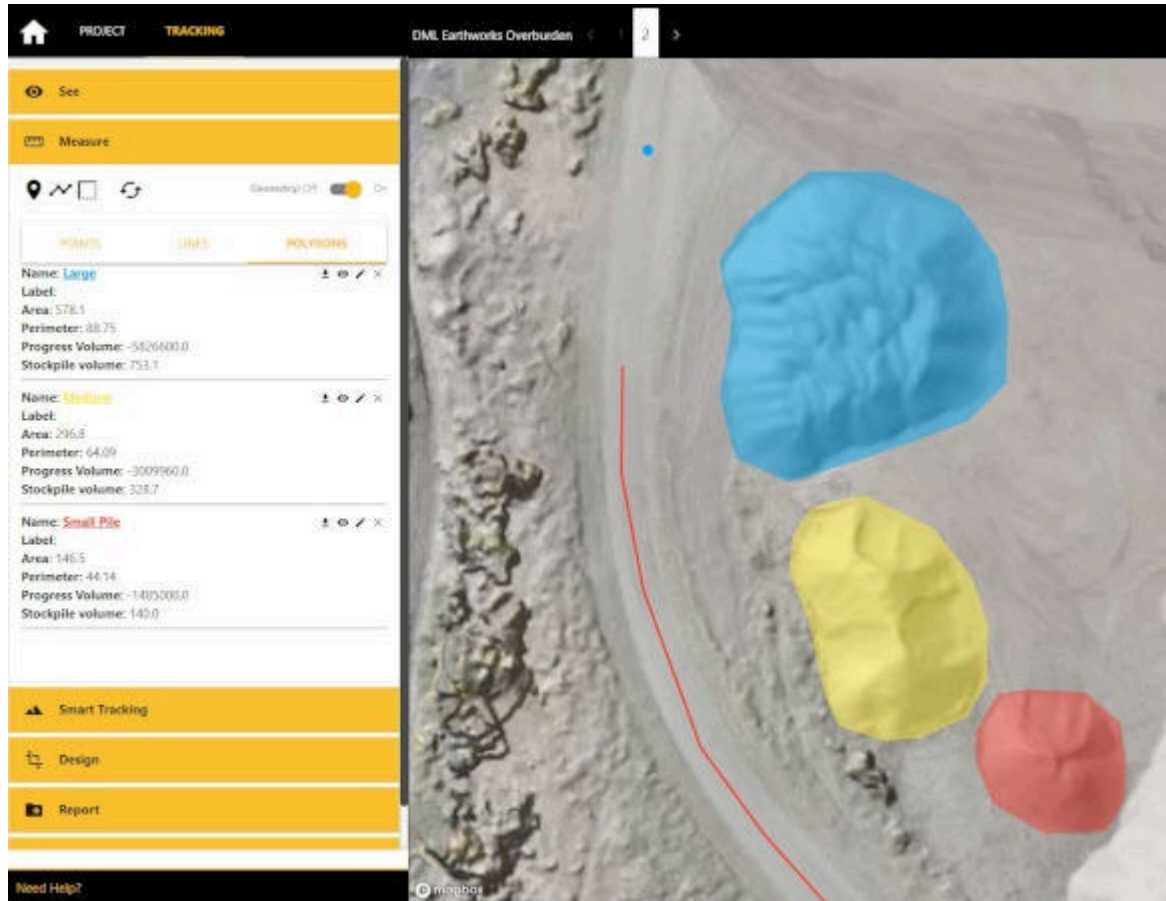
Site Setup

Secret Weapon to Survey Grade Accuracy with Affordable Drones



How to Create Permanent Ground Control Points

Map, Measure & Report



Quick Start

Thank-you!

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