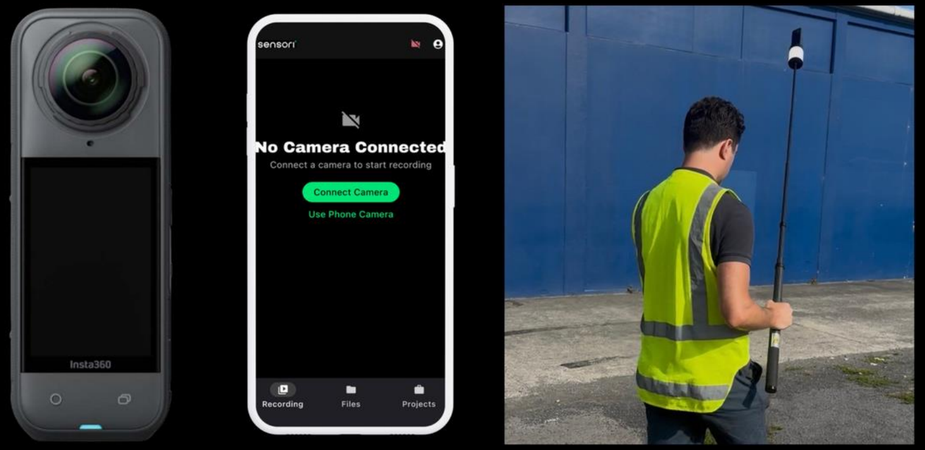
sensori

Affordable, accessible spatial data capture.

The Sensori workflow

Sensori can turn a video walkthrough into an accurate 3D model with thousands of embedded images.



Capture

Insta360 cameras, Android or iOS smartphones. The form factor gets into ceiling voids and manholes.

Upload

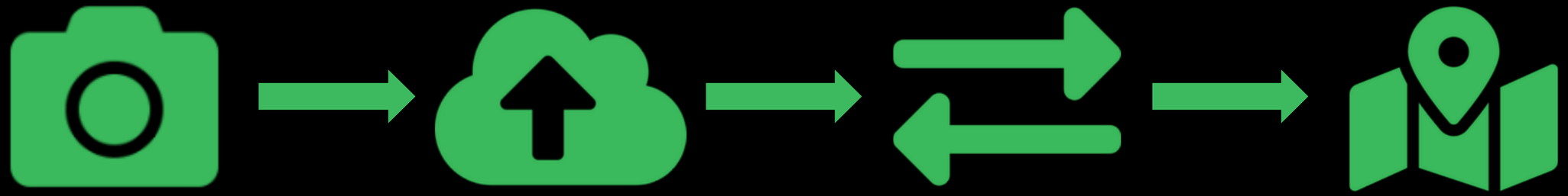
Upload the video file to our system.

Result

Get back a point cloud, with no post-processing.

How FME slots into the workflow

Sensori capture data can now be pulled into any platform via the transformer Gavin mentioned.



Capture

360 camera or smartphone

Sensori

Processed into georeferenced 3D output

FME

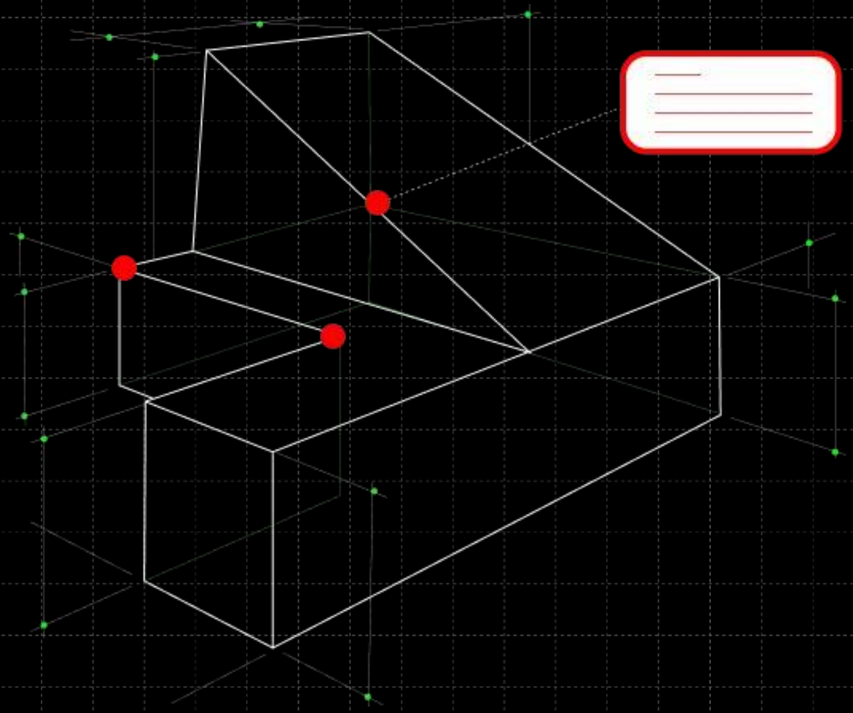
Breaks it into point clouds and oriented images

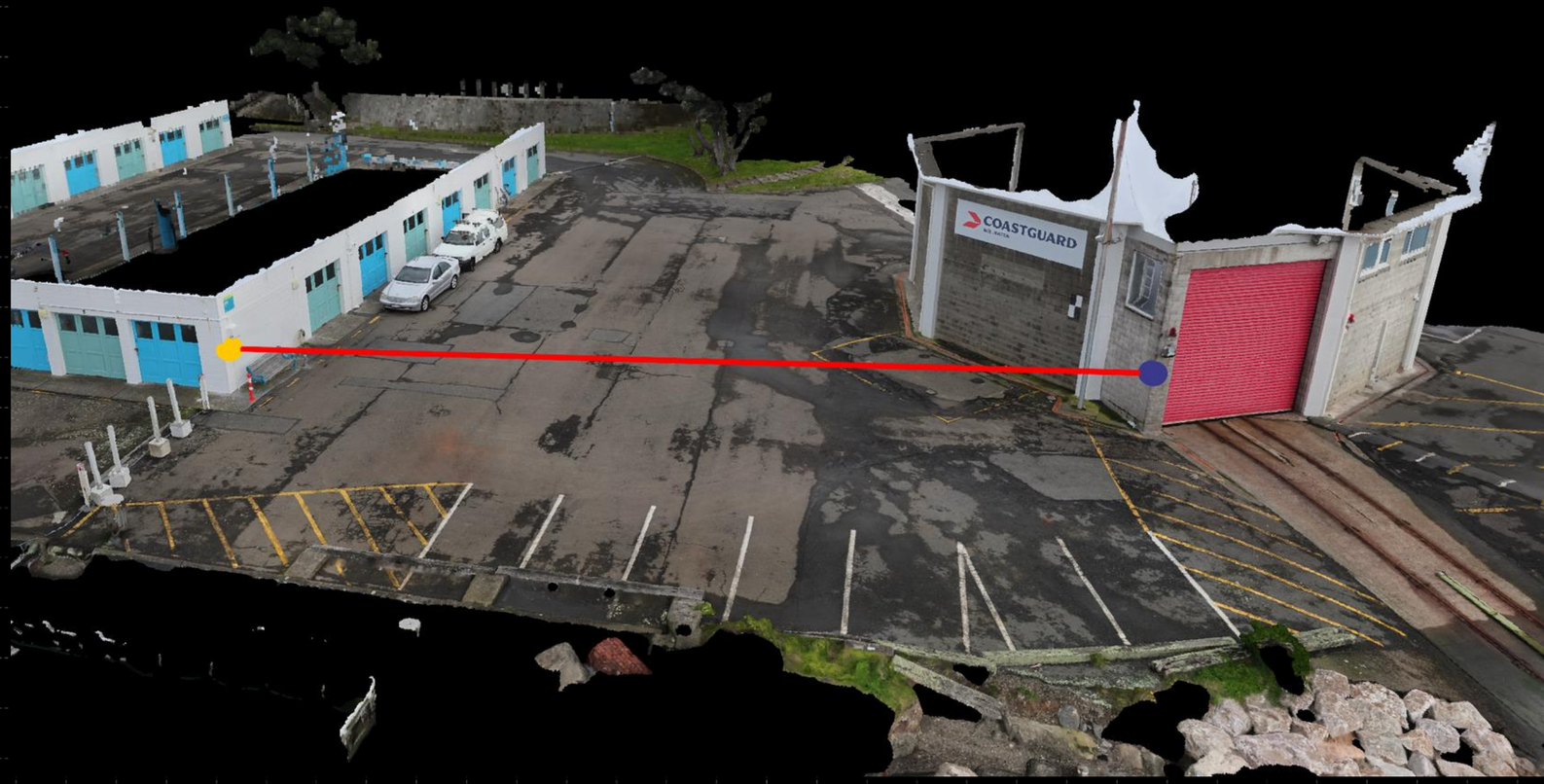
Any platform

Published as a live enterprise layer

Best in class accuracy

Our camera tracking and 3D geometry accuracy set us apart from other low-cost capture solutions. Typically, we experience a drift error of around 0.1%, which is 10 times better than comparable solutions and can match expensive mobile LiDAR. When paired with a surveyed control network, an accuracy of 5-10mm across the entire site is achievable.

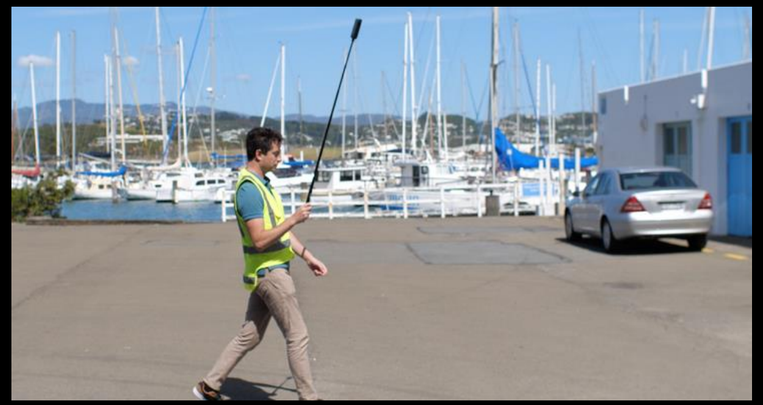




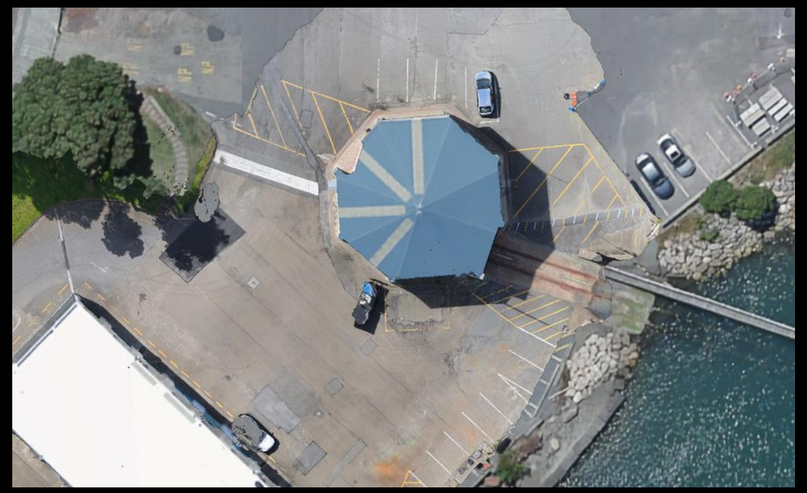
Geolocate

Something we've just added is the ability to geolocate the scans using our new Companion App.

- Set up the camera with our Companion App



- Walk the site as usual

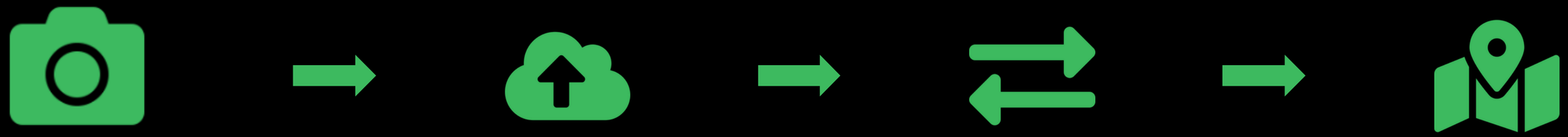


- View in your favourite GIS platform.

CASE STUDY

Auckland Airport: From Site to System

How Auckland Airport uses Sensori and FME to move captures from the field straight into ArcGIS Online.



Capture

360 camera or smartphone

Sensori

Processed into georeferenced 3D output

FME (Locus)

Transformed and routed automatically

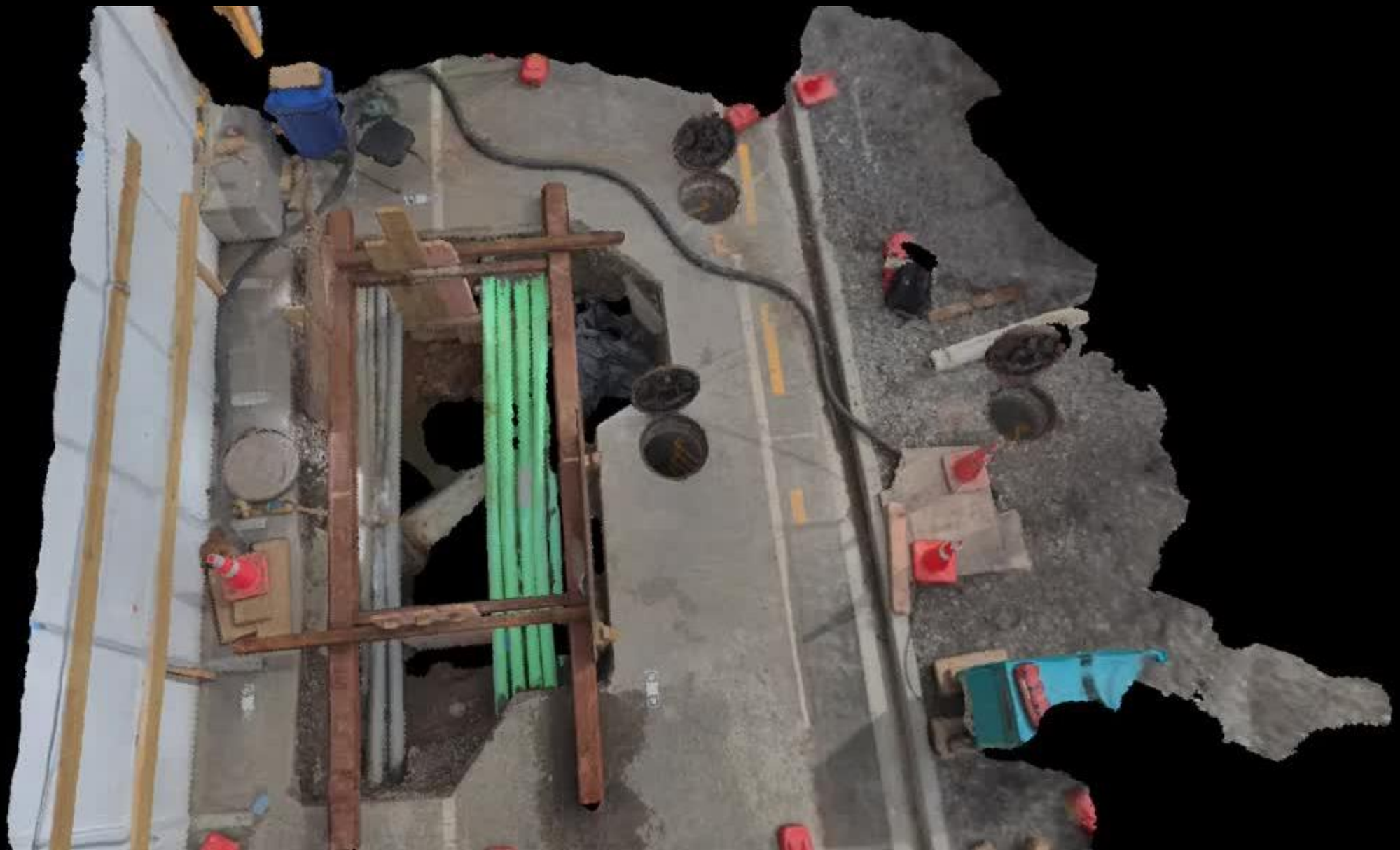
ArcGIS Online

Published as a live enterprise GIS layer

> *Letting site workers capture scans with just a mobile device before assets are buried, then publishing straight to a GIS layer, is a game changer. Having that data in an enterprise map environment lets us overlay it against other GIS and BIM datasets, improving coordination and enabling better-informed decisions.*
>
> **Karl Fitzpatrick — Spatial Information Manager, Auckland Airport**

- Streamlining site capture for trench, manhole, and services corridor work
- Live Locus-built FME integration publishes captures directly into Auckland Airport's ArcGIS Online

360 camera capture



Smartphone capture

Thank You

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