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ENTERPRISE

LIDAR / Photogrammetry

# HELIGUY Enterprise

HELIGUY Enterprise is a geospatial tech company with focused on providing data-driven insights for a range of business applications. As a preferred supplier to the private and public sectors, the company has over 10 years of experience in aerial imagery, mapping and 3D modelling.
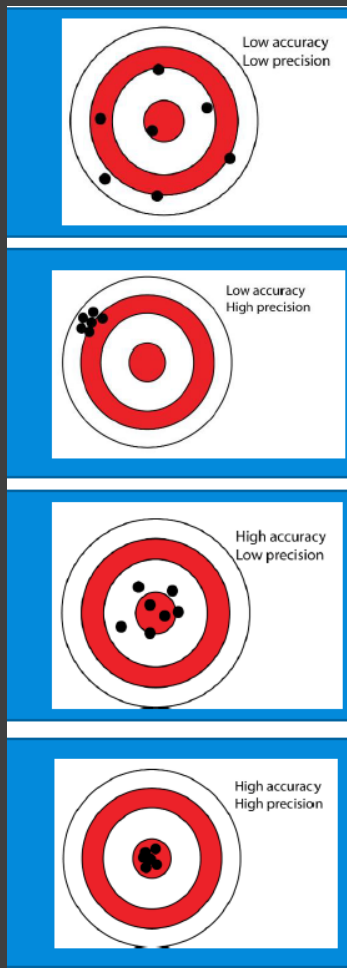
# Matrice M300 - RTK

Heliguy's fleet of drones now include advanced AI capabilities providing safety, security, and accurate data capture in almost any environment. With the P1 camera features a 45 megapixel sensor and 3 different lens options 24mm, 35mm, and 50mm.
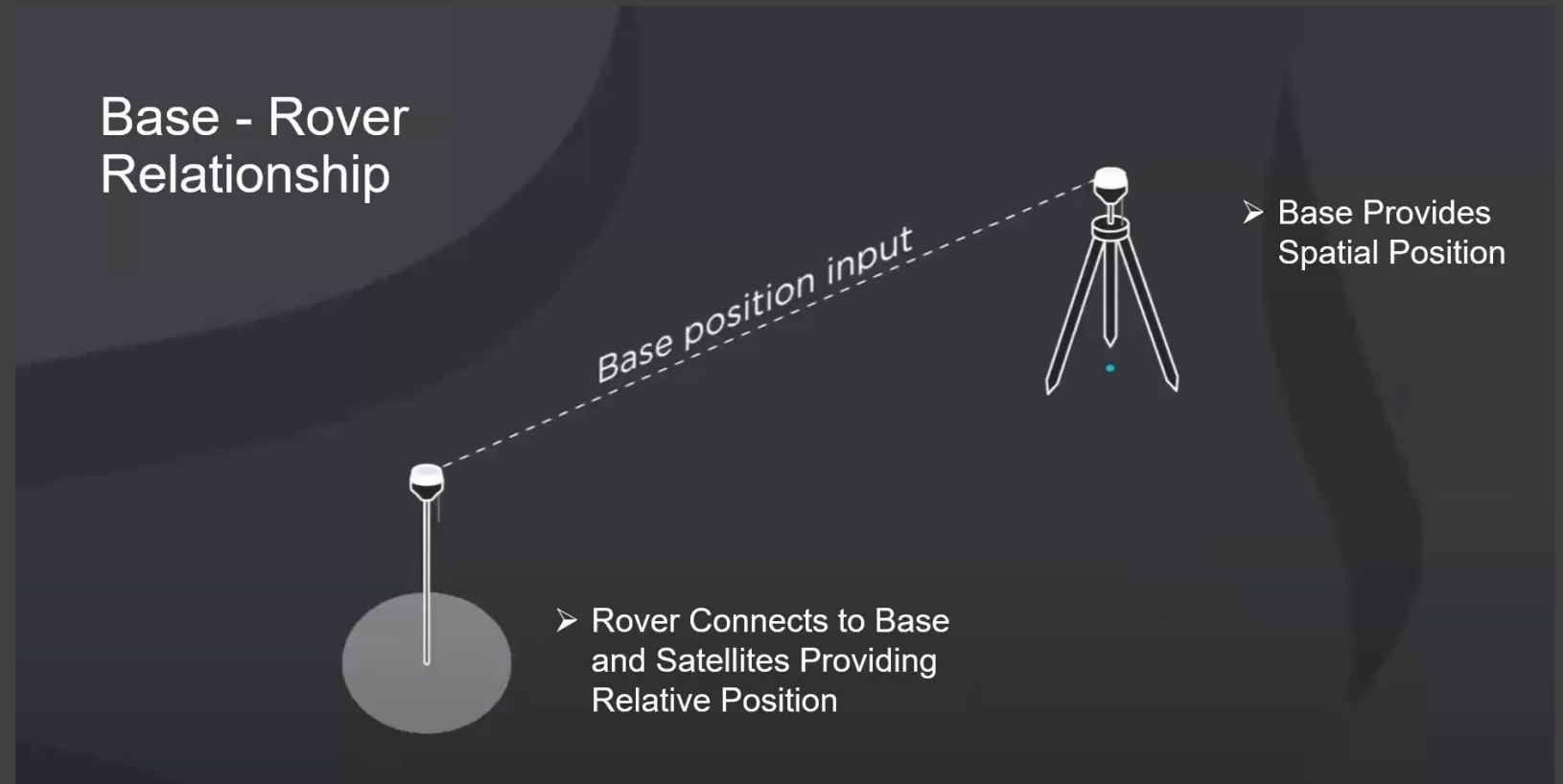
# M300 - RTK APPLICATIONS

_____

- Digital inspection
- Survey of non-vegetated environments
- Reality modelling
- Digital archiving of heritage structures
- Engineering design and planning
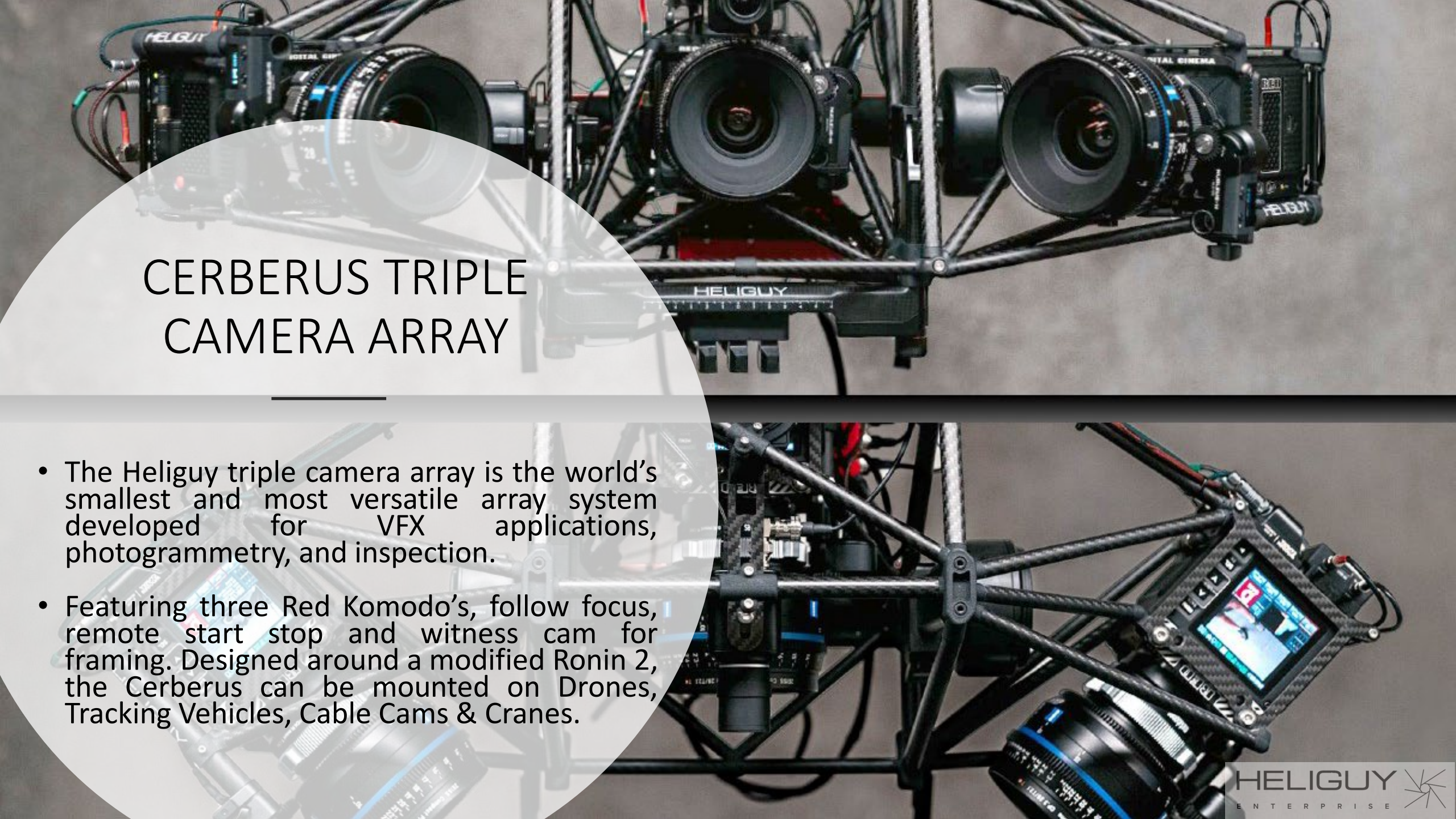- Construction progress monitoring
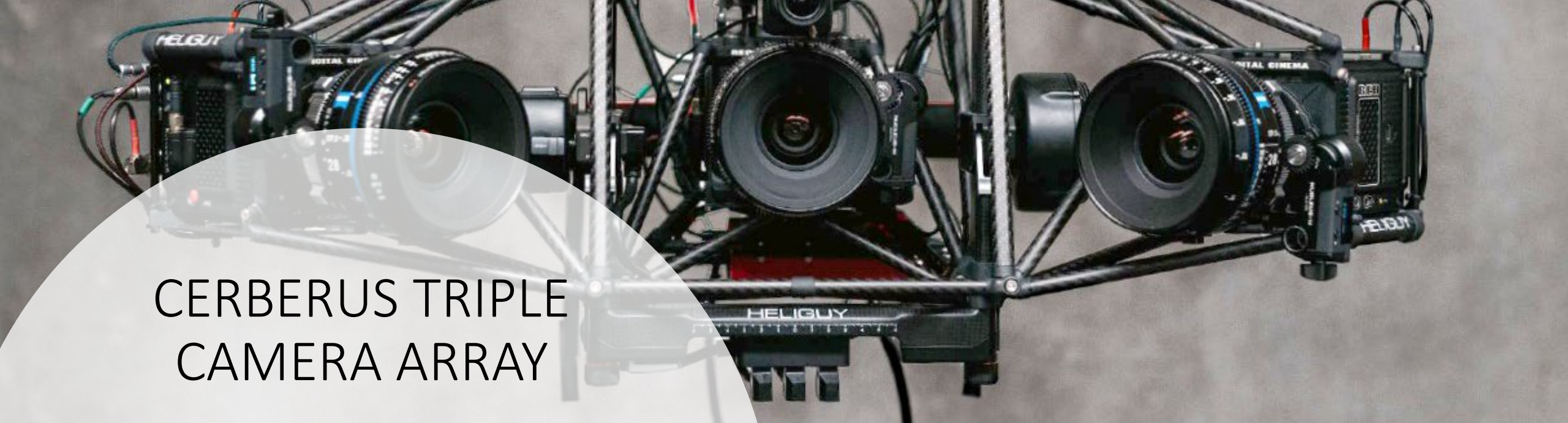
Base - Rover
Relationship

Base position input

➤ Base Provides
Spatial Position

➤ Rover Connects to Base
and Satellites Providing
Relative Position

RTK – workflow

- Centimetre accuracy can be achieved on distances of up to 60 km in RTK

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# CERBERUS TRIPLE CAMERA ARRAY

- The Heliguy triple camera array is the world's smallest and most versatile array system developed for VFX applications, photogrammetry, and inspection.

- Featuring three Red Komodo's, follow focus, remote start stop and witness cam for framing. Designed around a modified Ronin 2, the Cerberus can be mounted on Drones, Tracking Vehicles, Cable Cams & Cranes.

# CERBERUS TRIPLE CAMERA ARRAY

## SPECIFICATIONS

- 3 x Red Komodo's
- Zeiss Compact Prime CP.3 28mm
- 141 degree total field of view using 28mm lenses
- Up to 37 mph 60kph
- 15 min flight time Approx
- 14.5kg total weight

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# Sample Data Plant Drone & Ground Photos

- Resolution: 1mm – 4mm

- Purpose: Asset condition assessment

- Capture method: UAV and ground photos

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## Sample Data Plant Drone & Ground Photos

- Resolution: 4 mm – 1 mm
- Purpose: Asset condition assessment
- Capture method: UAV

Construction Site
Bombo Quarry

- Resolution: 1cm
- Purpose: Detail Visual Inspection
- Capture method: UAV

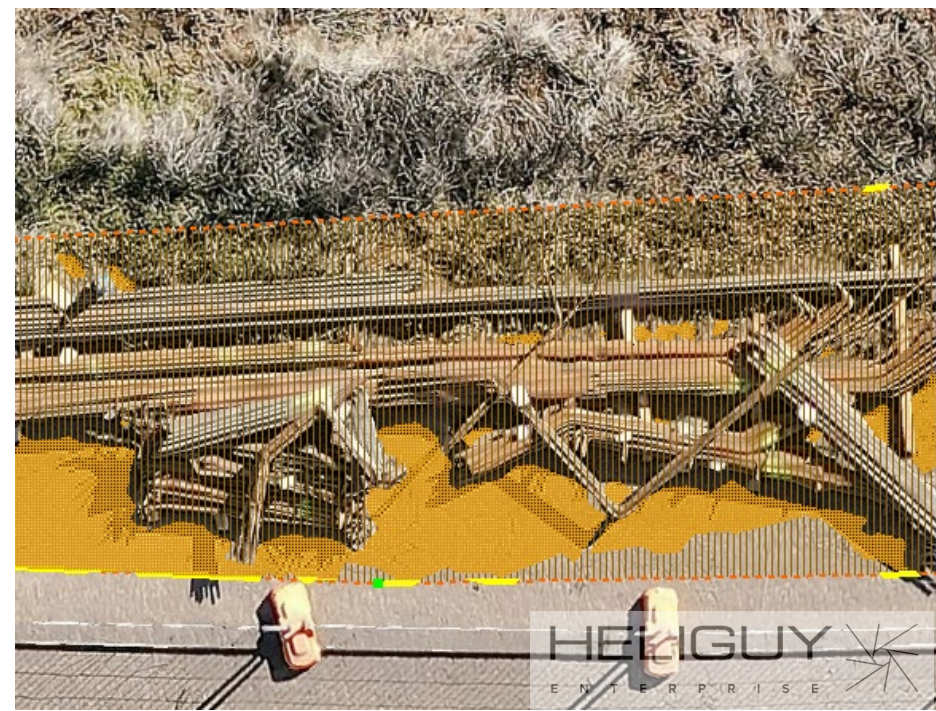Measurements

Coordinate | Distance | Surface | Volume

Click on the model to define a surface.

*Double click to close the polygon. Backspace to delete the last*

Perimeter: **26.318 m**
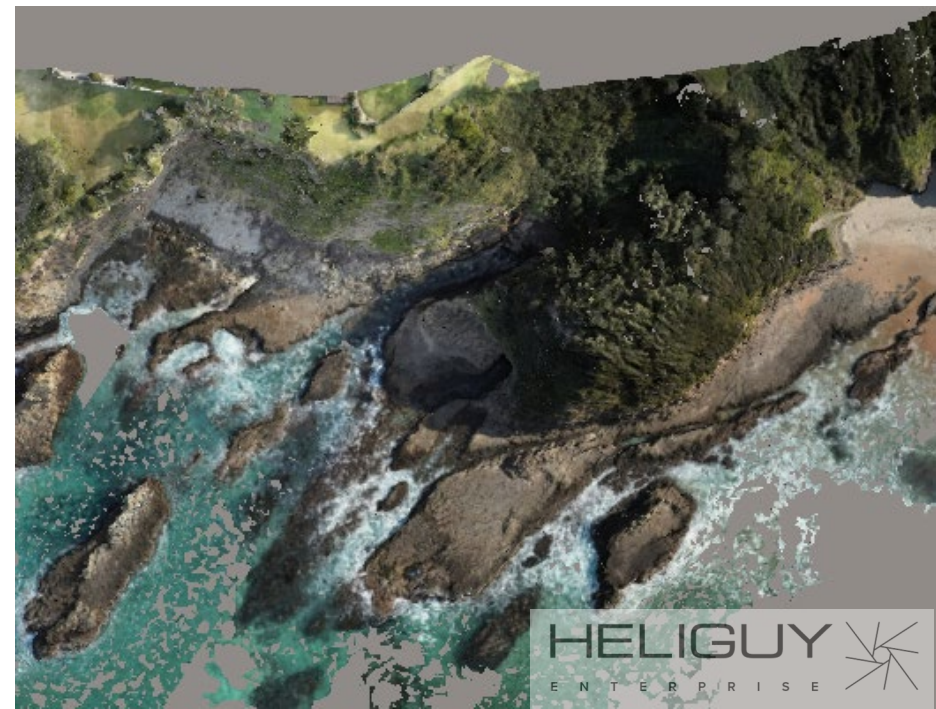Area: **26.942 m2**

# Sample Data Hornby Lighthouse Digital Twin

- Resolution: 0.72mm – 0.76mm

- Purpose: Comprehensive defect survey & asset condition assessment

- Capture method: UAV

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Cathedral
Rocks
Inspection

- Resolution: 1mm
- Purpose: Comprehensive Inspection defect survey
- Capture method: UAV

| 3D Mesh / Digital Twin | 3D Point Clod | Orthophoto/DSM |
|---|---|---|
| OBJ | ASPRS LASer (LAS) | TIFF/Geo TIFF |
| Collada DAE | Pointtools POD format | ESRI ASCII raster/ASC |
| Autodesk FBX | Compression LAZ | XYZ basic ASCII format |
| ESRIi3s Scene database | | |
| Cesium 3D Tiles format | | |
| Google Earth KML | | |
| OpenSceneGraph binary (OSGB) | | |
| LOD tree export | | |

# Metadata

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