



Technical  
Conference





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CYBERHAWK

# How a combination of drones and data visualization software can transform the construction monitoring process

Barry McGinn, Sales Director - Capital Projects, Cyberhawk

# Introduction

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- Founded in 2008
- World leader in visual data management
- Combine drone inspections with cloud software
- Operating in over 37 countries
- Performed over 100,000 commercial flights



# About the Presenter

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- Over 15 years' experience in the construction software market
- Joined Cyberhawk in 2022 as Sales Director, Capital Projects
- Focused on the commercial growth of iHawk data visualisation software within the global energy sector



A full-page background image of an offshore oil rig. In the foreground, a man in an orange safety suit and white helmet stands on a green helipad, holding a drone controller. A black drone with a camera is flying in the air above him. The background shows the complex structure of the oil rig, including a tall flare stack with a large flame on the left and various platforms and ladders on the right. The sky is overcast and grey.

# Unlocking Drone Capability





# Skies without Limits V2.0

A recent report highlighted that senior business decision-makers find drone adoption will bring benefits to:



**78%**  
Time



**76%**  
Productivity



**77%**  
Safety



**77%** Digital  
Transformation

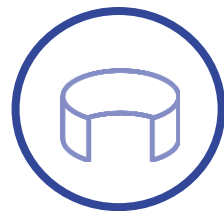


# Drone Data Capability

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High Resolution  
Orthophotos



Aerial Panoramic  
Imagery



Point Cloud & 3D  
Mesh Models



Digital Elevation  
Models



Ground-based  
360° Visual Asset  
Tours



Multispectral  
& Thermal  
Data Outputs



High Definition  
Video (4K+)



# Construction Monitoring Benefits





# Construction Monitoring

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Unique Perspective



Claim Resolution



Equipment Tracking



# Construction Monitoring

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Improve Site Safety



Reduce Costs




Reduce Emissions







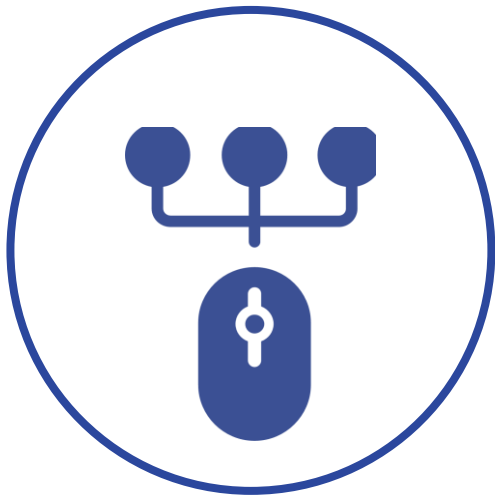
# Data Visualisation Software

LATEST DATA			
MAIN WORKS SITE			
	Orthophoto	4/3/2021	
	Aerial Tour	4/19/2021	
	Mesh Model	10/25/2020	
	UPV		



# iHawk Software

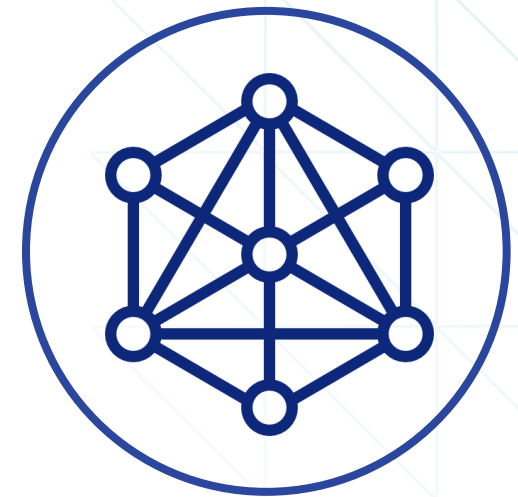
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Project Controls



Unlimited Integrations



Data Democratisation



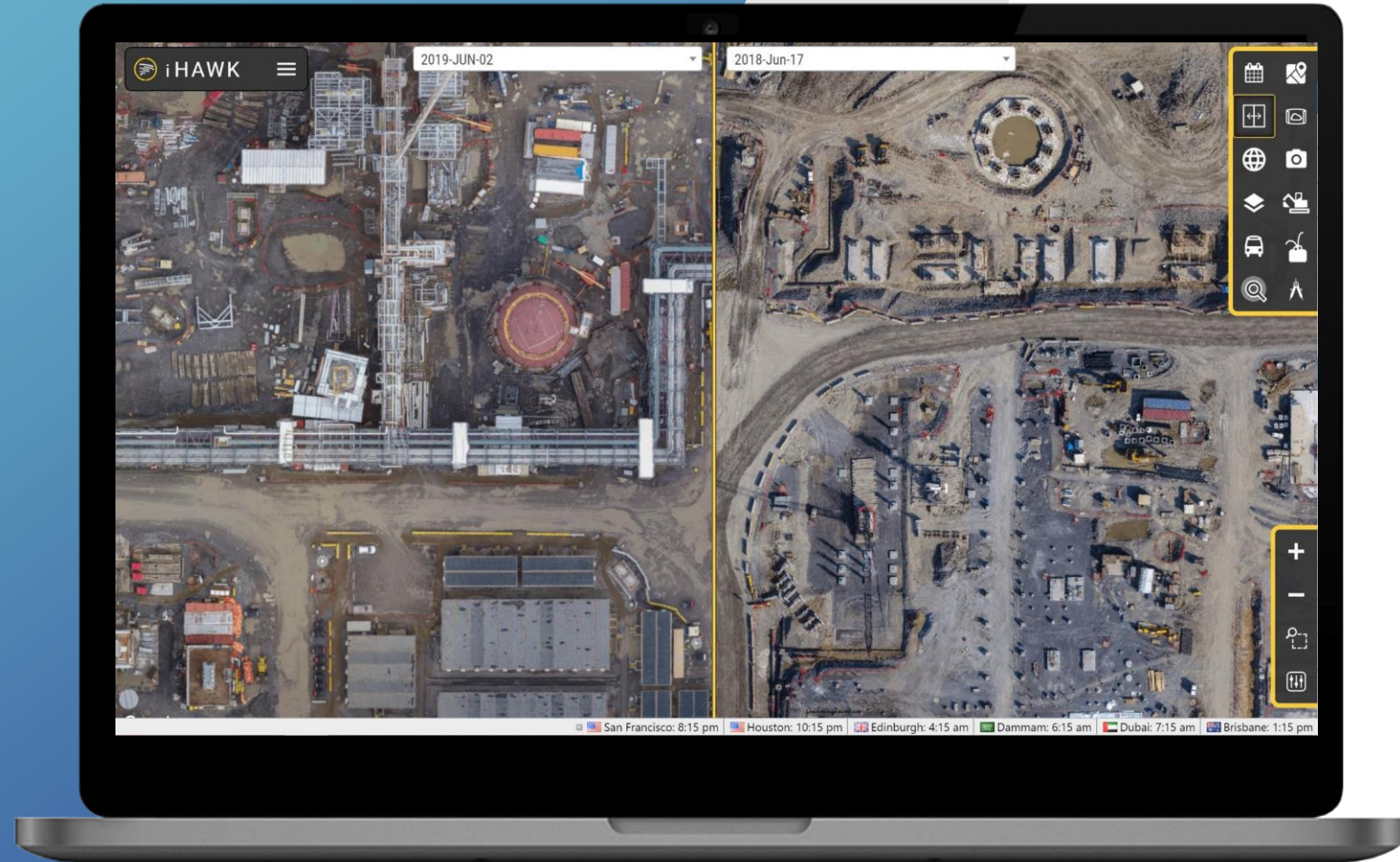


# Ortho View



Compare the project lifecycle over time.

- Orthophoto Visualisation
- Map Interaction
- Measure Distances
- Overlay Schematics





# 360 View



A unique interactive and immersive view.

- Ground Tour Capability
- Aerial Site View
- Third-Party Integration





# Site Master Planning



Manage real estate,  
equipment staging  
and site activities.

- Coordinate Equipment
- Manage Laydown Areas
- Allocate Delivery Locations

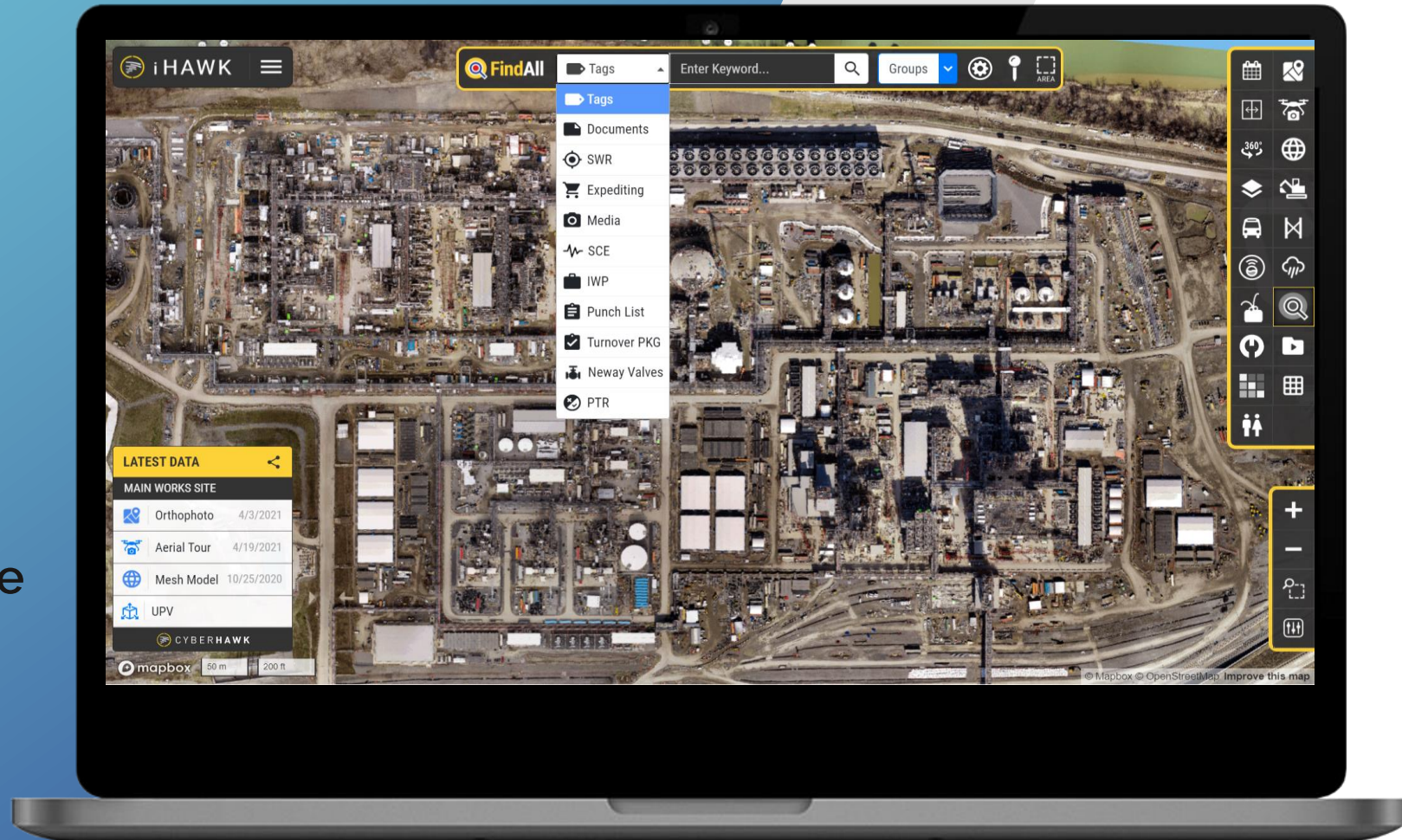


# Find All



Manages all  
geo-referenced  
project data.

- EDMS / CDE Integration
- Access Key Data Quickly
- Geospatial Data Reference





# RFID Tagging & IoT Tracking



Track and monitor the performance of key machinery.

- Monitor Equipment
- Locate Raw Materials
- Real-time Data Insight

The screenshot displays a web application interface for RFID tagging and IoT tracking. The interface is divided into three main sections:

- ADVANCED SEARCH:** A sidebar on the left containing a "TAG FILTER" section with checkboxes for various equipment types (e.g., ELECTRICAL CABLES, ELECTRICAL EQUIPMENT, etc.) and a "KNOWN TAGS LOCATIONS" section showing a map view of tag locations with a "SEARCH THIS AREA" button.
- TAGS - 14 / 14 Items Found:** A main table displaying a list of tags. The table has columns for AERIAL, BPS, DOCS, MEDIA, UPV, STATUS, TYPE, TAG, PARENT, and DESCRIPTION. The "STATUS" column is highlighted with a red box, showing "RECEIVED" for most items and "ISSUED" for one item (C-12801).
- Map View:** A small map view in the bottom left corner showing the locations of the tags, with a "SEARCH THIS AREA" button.

AERIAL	BPS	DOCS	MEDIA	UPV	STATUS	TYPE	TAG	PARENT	DESCRIPTION
		53	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801A	PCG128377	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801B	PCG128379	BALANCED RELIEF DEVICE FOR C-1
		18	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801C	PCG128381	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801D	PCG128401	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801E	PCG128383	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801F	PCG128384	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801G	PCG128385	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801H	PCG128378	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801I	PCG128382	BALANCED RELIEF DEVICE FOR C-1
		18	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801J	PCG128386	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801K	PCG128387	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801L	PCG128619	BALANCED RELIEF DEVICE FOR C-1
		17	+		RECEIVED	RELIEF DEVICE NUMBER	RV-12801S	PCG128380	BALANCED RELIEF DEVICE FOR C-1
		1059			ISSUED	MECHANICAL EQUIPMENT	C-12801		QUENCH TOWER

## What do our Customers say?

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“

iHawk has become an inseparable part of what we do. The collection of site imagery captured over time has contributed to countless progress and cost reviews with the major contractors and subcontractors, making them factual, evidence-based, and ultimately transparent and fair.

- Head of IT/IM, Shell

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# Thank you

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