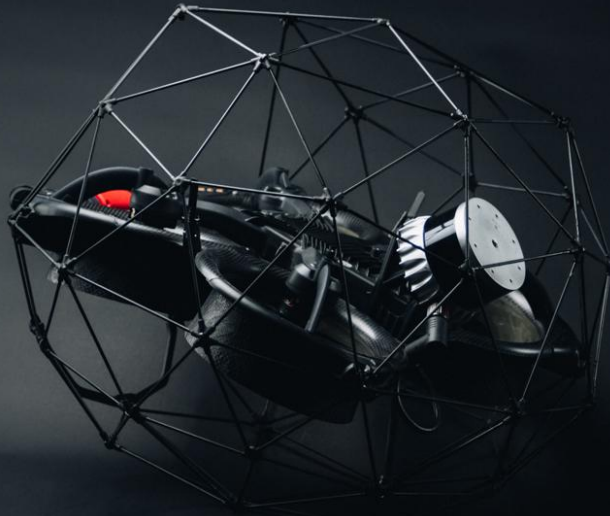


# UNLEASH



SAFE DRONES FOR INACCESSIBLE PLACES

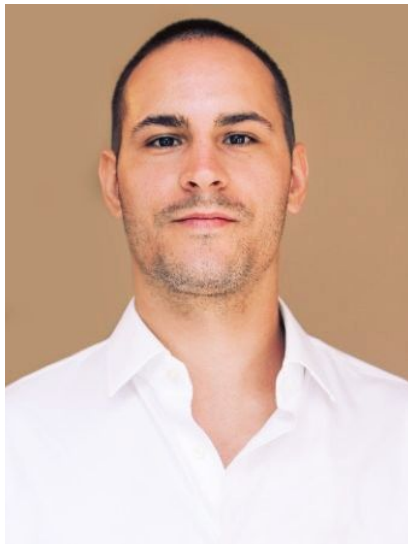


## Remote Drone Inspections: How to Do an Inspection with a Drone in the U.S. While Standing in Europe

Thursday, July 28 2022

12:00 PM - 1:00 PM EST

## MODERATOR



Zacc Dukowitz  
Senior Communications  
Manager  
—Flyability—

## PANELISTS



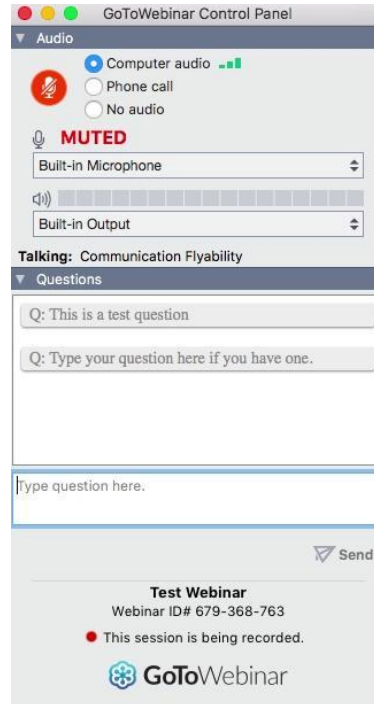
Kihan Garcia  
Chief Pilot and UAV Officer  
—Unleash live—



Eric English  
Drone Operations Manager NA  
—Flyability—

# WEBINAR ENGAGEMENT


Ask questions during the webinar.



The image shows a screenshot of the GoToWebinar Control Panel. The window title is "GoToWebinar Control Panel". It has a "Audio" section with three radio buttons: "Computer audio" (selected), "Phone call", and "No audio". Below these is a microphone icon and the word "MUTED" in red. There is a dropdown menu for "Built-in Microphone" and a volume slider. Below the slider is another dropdown menu for "Built-in Output". The "Talking: Communication Flyability" section is collapsed. The "Questions" section is expanded, showing two question input boxes. The first box contains the text "Q: This is a test question". The second box contains the text "Q: Type your question here if you have one." Below these is a large text input field with the placeholder text "Type question here." and a "Send" button with a paper plane icon. At the bottom, there is a "Test Webinar" section with the text "Webinar ID# 679-368-763" and a red dot icon followed by the text "This session is being recorded." The GoToWebinar logo is at the bottom.


GoToWebinar Control Panel

Audio



☒ Computer audio 

☐ Phone call

☐ No audio

 **MUTED**

Built-in Microphone

Built-in Output


**Talking:** Communication Flyability

Questions


Q: This is a test question


Q: Type your question here if you have one.

Type question here.

 Send

**Test Webinar**  
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The recording of this webinar  
will be sent to you afterward.

# AGENDA

- 1 Introduction—5 minutes
- 2 Unleash live overview & case study—20 minutes  
Kihan Garcia
- 3 Live demonstration—10 minutes  
Eric English & Kihan Garcia
- 4 Q&A—15 minutes





## Unleash live Overview & Case Study

Kihan Garcia  
Chief Pilot and UAV Officer

UNLEASH <sup>live</sup>



# UNLEASH



# Measure reality with visual data

A software platform built to enable fast automated insights from virtually any connected camera.

## About Unleash live

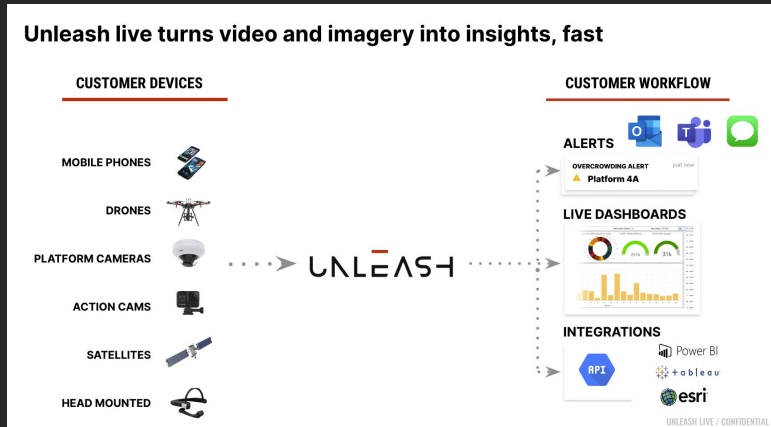
A world class **video analytics platform** built to service the growing adoption of visual capture devices used in enterprise, public safety and government.

Unleash live enables the development and deployment of independent Computer Vision A.I. Apps for:

- Productivity gains
- Cost improvements
- Increased safety

Repeatable inspections resulting in structured data for faster and more insights.

Successfully connected and navigated drones in real-time via Starlink connectivity.





# Unleash live turns video and imagery into insights, fast

## Unleash live turns video and imagery into insights, fast

### CUSTOMER DEVICES

MOBILE PHONES



DRONES



PLATFORM CAMERAS



ACTION CAMS



SATELLITES



HEAD MOUNTED



UNLEASH

### CUSTOMER WORKFLOW

#### ALERTS



OVERCROWDING ALERT  
Platform 4A

just now

#### LIVE DASHBOARDS



#### INTEGRATIONS



UNLEASH LIVE / CONFIDENTIAL

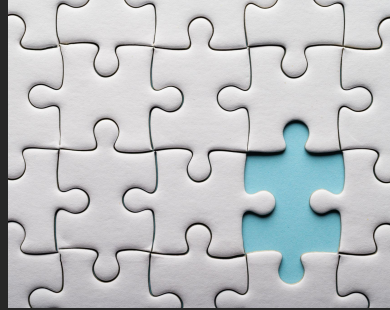
# Visual inspections conducted manually are costly, slow and produce incomplete data

People have always performed manual visual inspections across many sectors. They've used outdated tools to translate something that they see into structured data for decision making and action



## MANUAL DATA CAPTURE

Many companies still use clipboard and pencils across a wide range of sectors to capture and translate data into business tools for their daily operations.



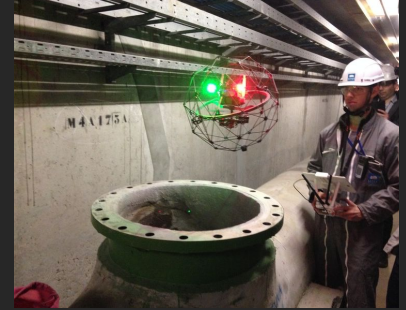
## INCOMPLETE DATA

Manual inspections mean that often data is incomplete due to the cost and availability of resources to obtain larger datasets for statistical and trend analysis



## HARD TO REACH

High value remote assets such as Wind Turbines, Transmission lines and Pipelines pose a challenge in obtaining the data needed for daily operations



## DANGEROUS SPACES

Energy, Resources and Oil & Gas often require placing people into dangerous spaces to obtain the data needed for decision making

# The benefits of drone inspections

- + Safer
- + Faster
- + More affordable

The above results in an increase in inspections. This means:

- + Improved ROI:
  - An increase in asset longevity
  - Decrease in downtime
- + Increased safety
- + Critical maintenance projects are prioritized

Overall the benefits are better and faster decisions based on more accurate data.

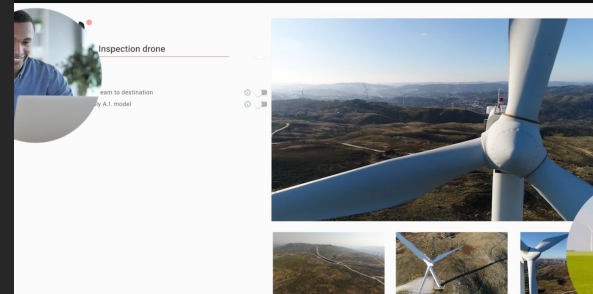
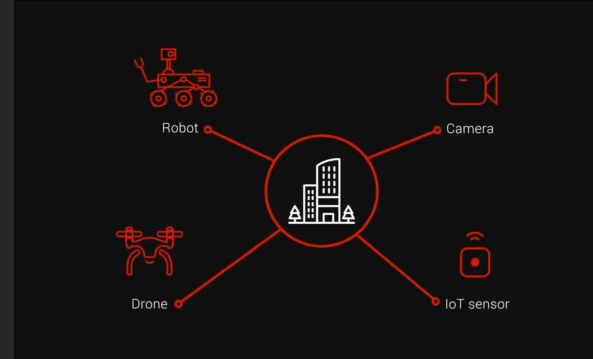


# Ultra low latency live stream

Fast track operations with remote inspections and collaboration.

Real time collaboration so the expert operates as if they are on site, from anywhere in the world.

- 4 concurrent viewable live video channels and an unlimited number of active devices via a browser
- No account set up or download provided
- Multiple devices





*Endeavour Energy's electricity distribution network spans 47,000km of power lines, 500,000 power poles, and 32,000 substations across New South Wales, Australia.*

## CASE STUDY

# Endeavour Energy

Leveraging A.I. to analyze video content through SUV cameras, drones & 4G and 5G to accelerate network remediation and improve worker safety by remotely alerting Endeavour Energy of faults or damaged equipment on the electricity network.

Fusion Atlas mapping tool was used to overlay Endeavour Energy power lines with 5G towers to define the footprint for testing live streaming to the Unleash live platform using 5G.





## Future integrations

- + Remote / Autofly / robotics control
- + Live streaming
- + LiDAR streaming for live positional information
- + Headsets
- + Plan indoor flights, 3D modelling, autonomous flights





**LIVE DEMO**





## Q&A

**Send your follow up questions to:**

Kihan Garcia, Unleash live—[kihan.g@unleashlive.com](mailto:kihan.g@unleashlive.com)

Flyability—[denver@flyability.com](mailto:denver@flyability.com)