

SAFE DRONES
FOR INACCESSIBLE PLACES

Flyability, Elios & Elios 2 Presentation



“We believe that robots, instead of humans, should be sent in hazardous places and dangerous situations.

Introducing Flyability

Founded in Sept. **2014**

We are an EPFL spin-off based in Lausanne, Switzerland

With a total funding of $ **17.5 M**

We are backed by experienced investors.

Currently a team of **85**

Based in Lausanne, we are passionate about robotics.

Inventors of the world's **1st**

collision-tolerant UAV



ELIOS

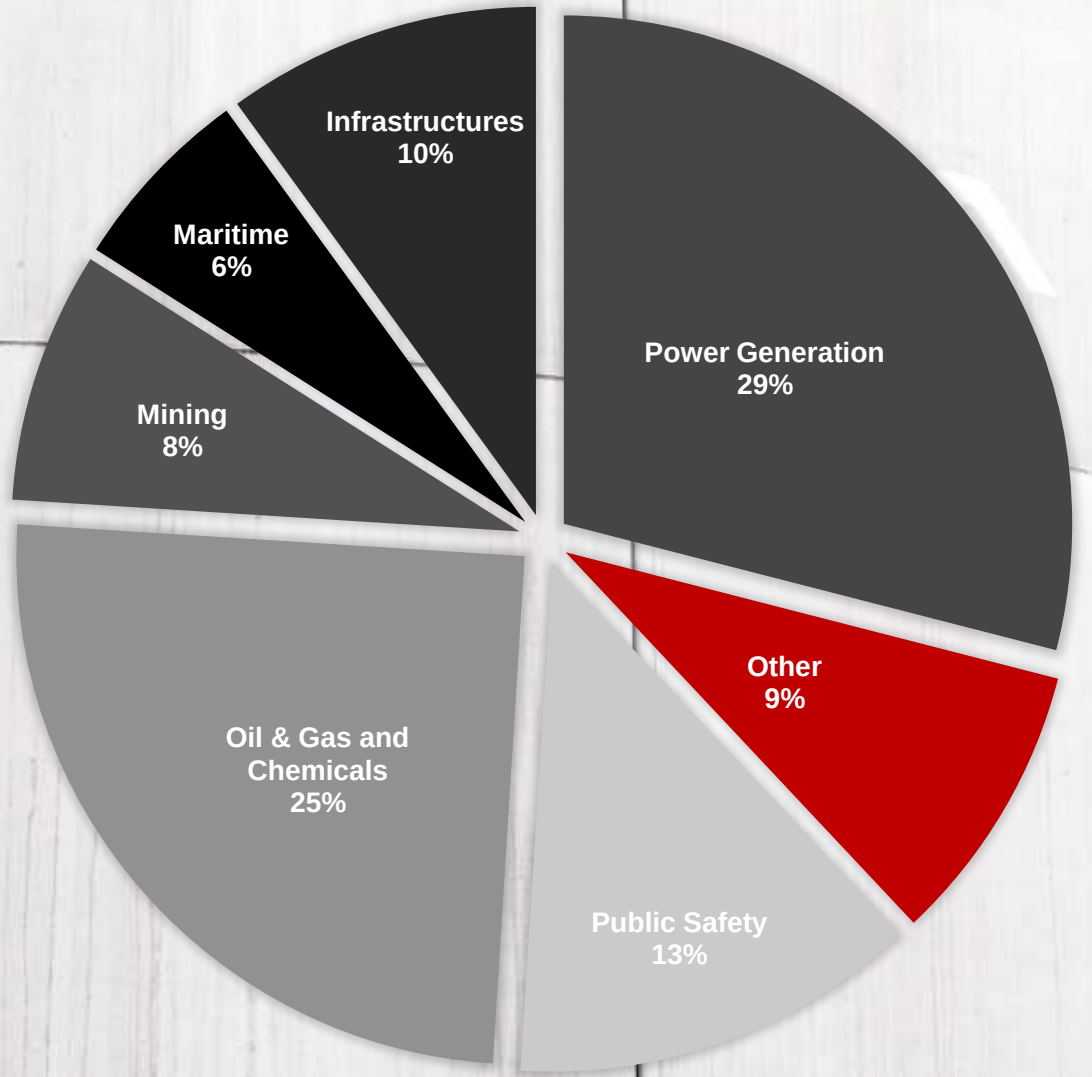


Patented Technology

- 3 axis Gimball decoupling system
- Full HD camera
- Thermal camera
- LED frontal bank
- 10 minutes flight time
- 40cm sphere cage
- 750grams with battery

WHAT WE HAVE ACHIEVED SO FAR





Sept 2016 first Sale

> 1000 units sold since

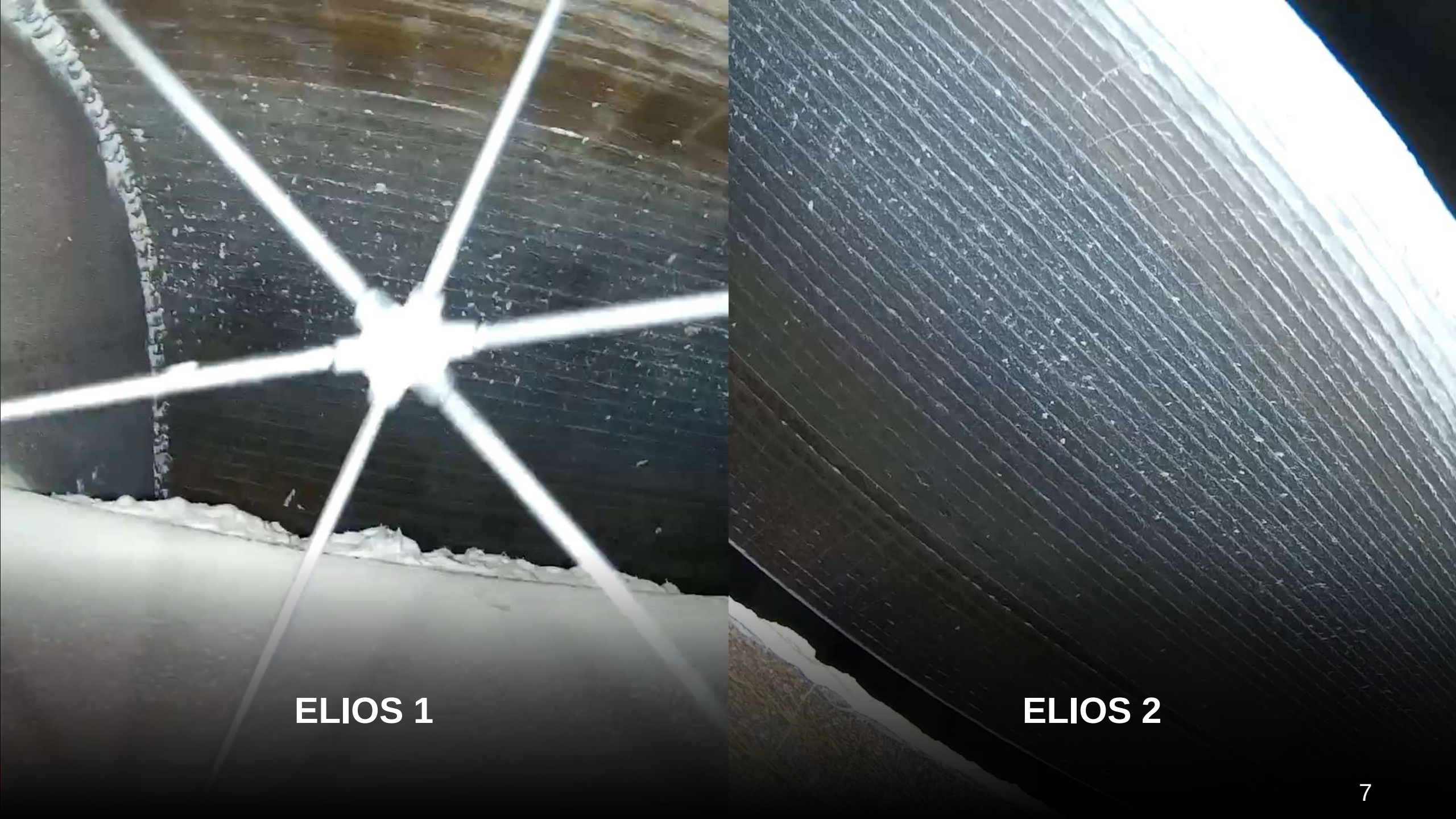
Growing > 200%

ELIOS Customer feedbacks:

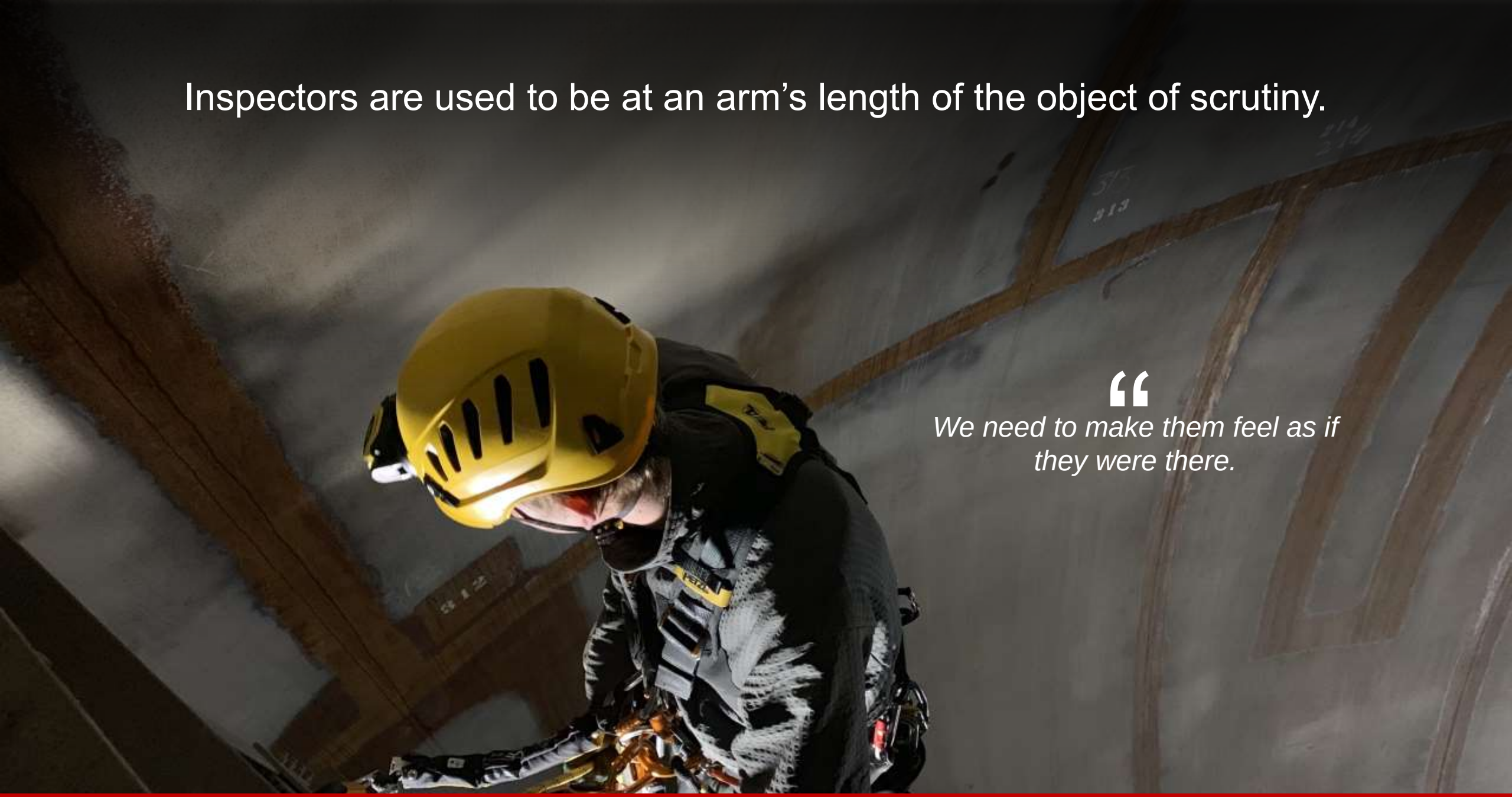
“Great tool, still a couple of limits…”



- Very unstable, mainly in windy environments
- Hard to pilot
- Cage obstructing the camera
- 2MP camera only…
- Low definition analog direct feed
- “Rain effect” in dusty environment because of Frontal LED frontal bank
- Limited camera tilting


ELIOS 1
ELIOS 2

Inspectors are used to be at an arm’s length of the object of scrutiny.



> *We need to make them feel as if they were there.*

ELIOS 2 - OVERVIEW

DESIGNED FOR INDOOR

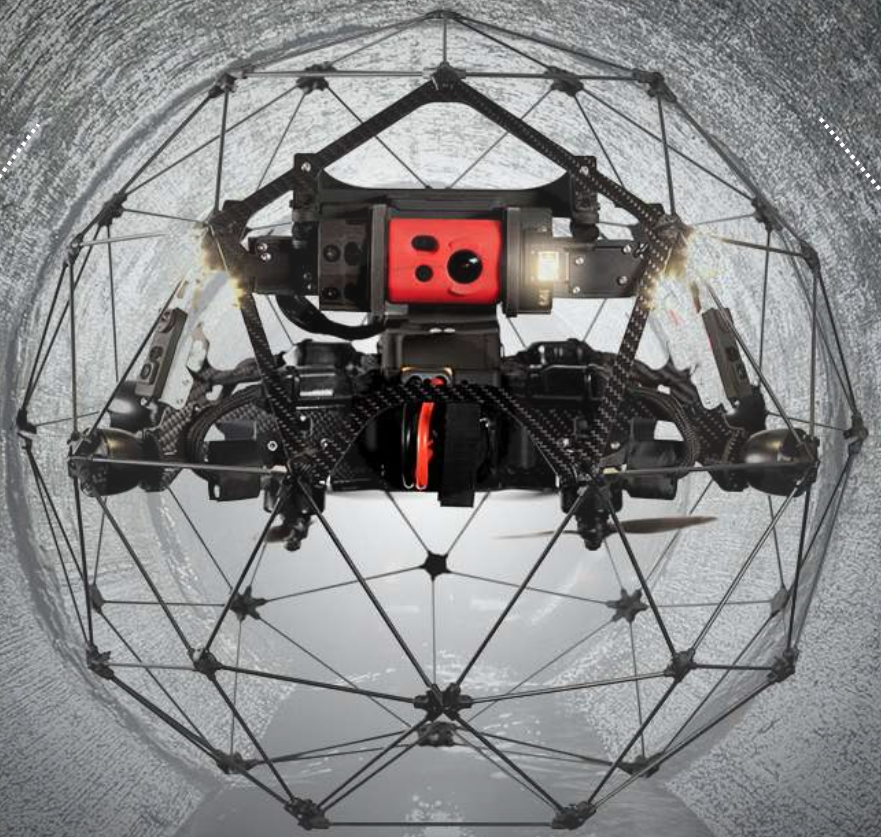
Collision-resilient
Shockproof payload
Confined space accessibility
Signal strength

INTUITIVE TO FLY

GPS-free stabilization
High definition live streaming
Distance lock

BUILT FOR SUCCESS

Easy maintenance
Introductory training
Support services



DATA QUALITY

Obstruction free
Close up inspection
4k Camera
Thermal camera
180° tiltable camera pod
10K lumen adjustable lighting
Dustproof lighting
Oblique lighting

DATA PROCESSING

Streamlined data management
Close-up 3D model

COLLISION-RESILIENT



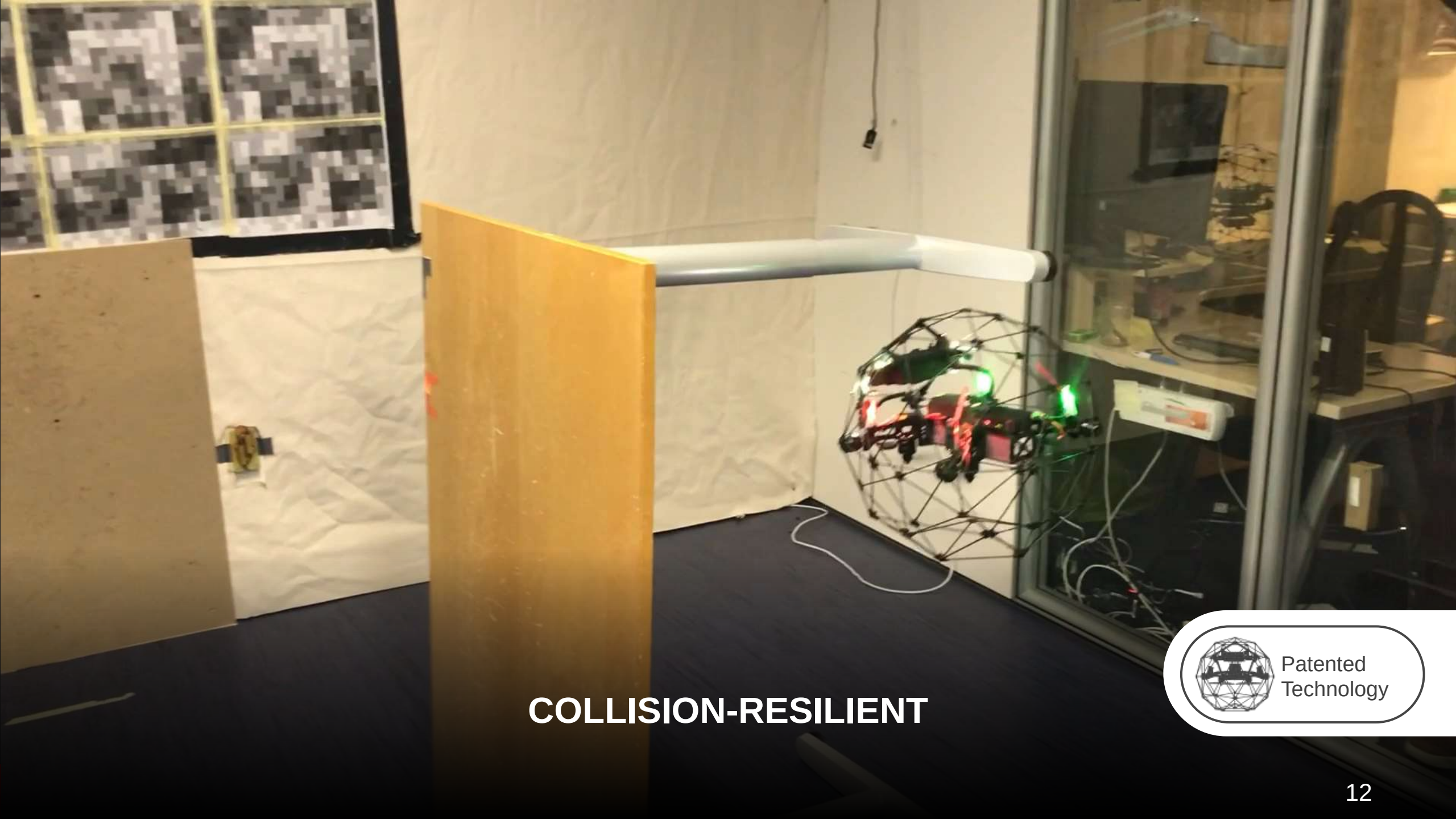
RELIABLE OPERATIONS

IN EVERY SITUATION.



COLLISION-RESILIENT

Patented Technology



COLLISION-RESILIENT

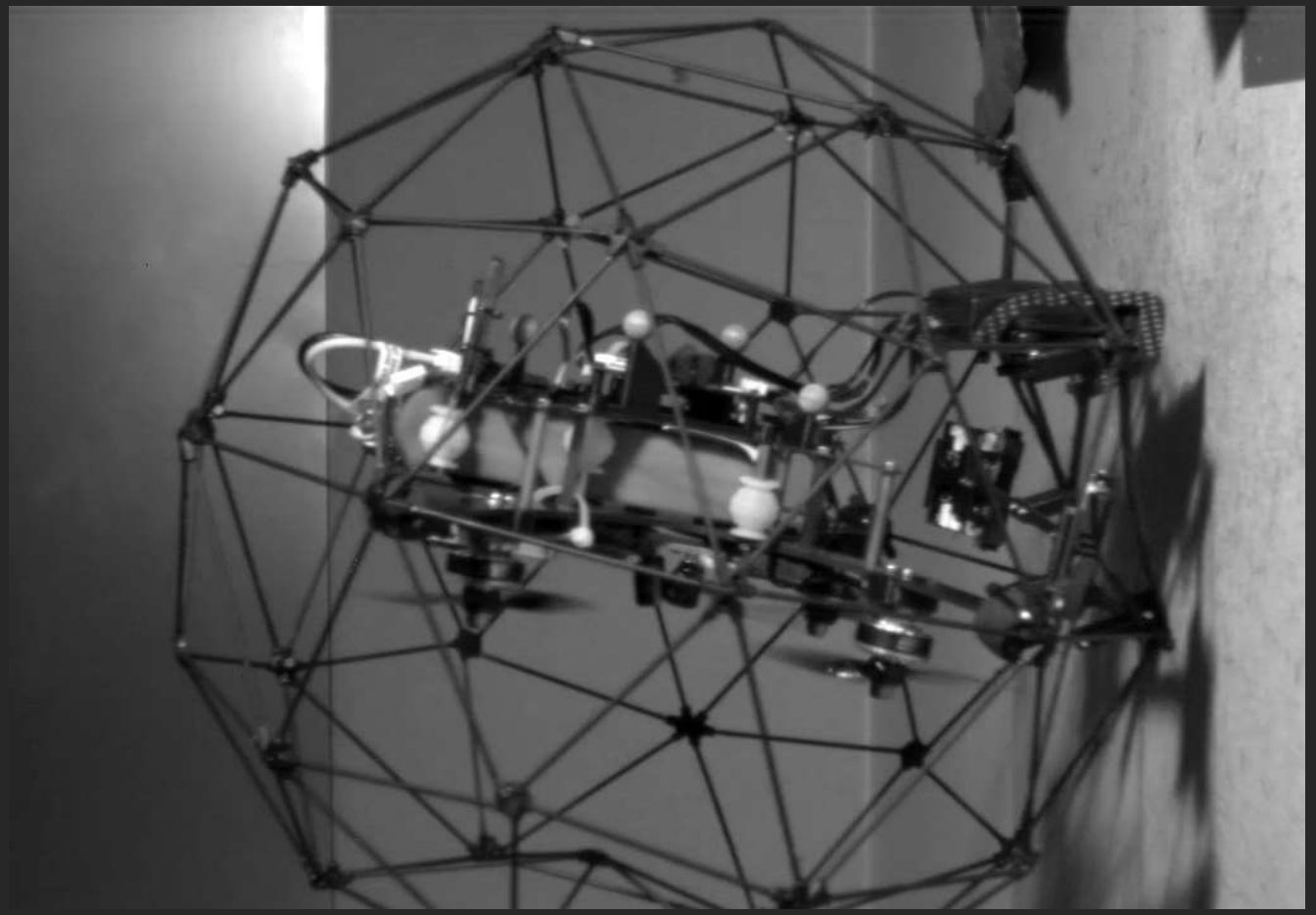
Patented Technology



COLLISION-RESILIENT

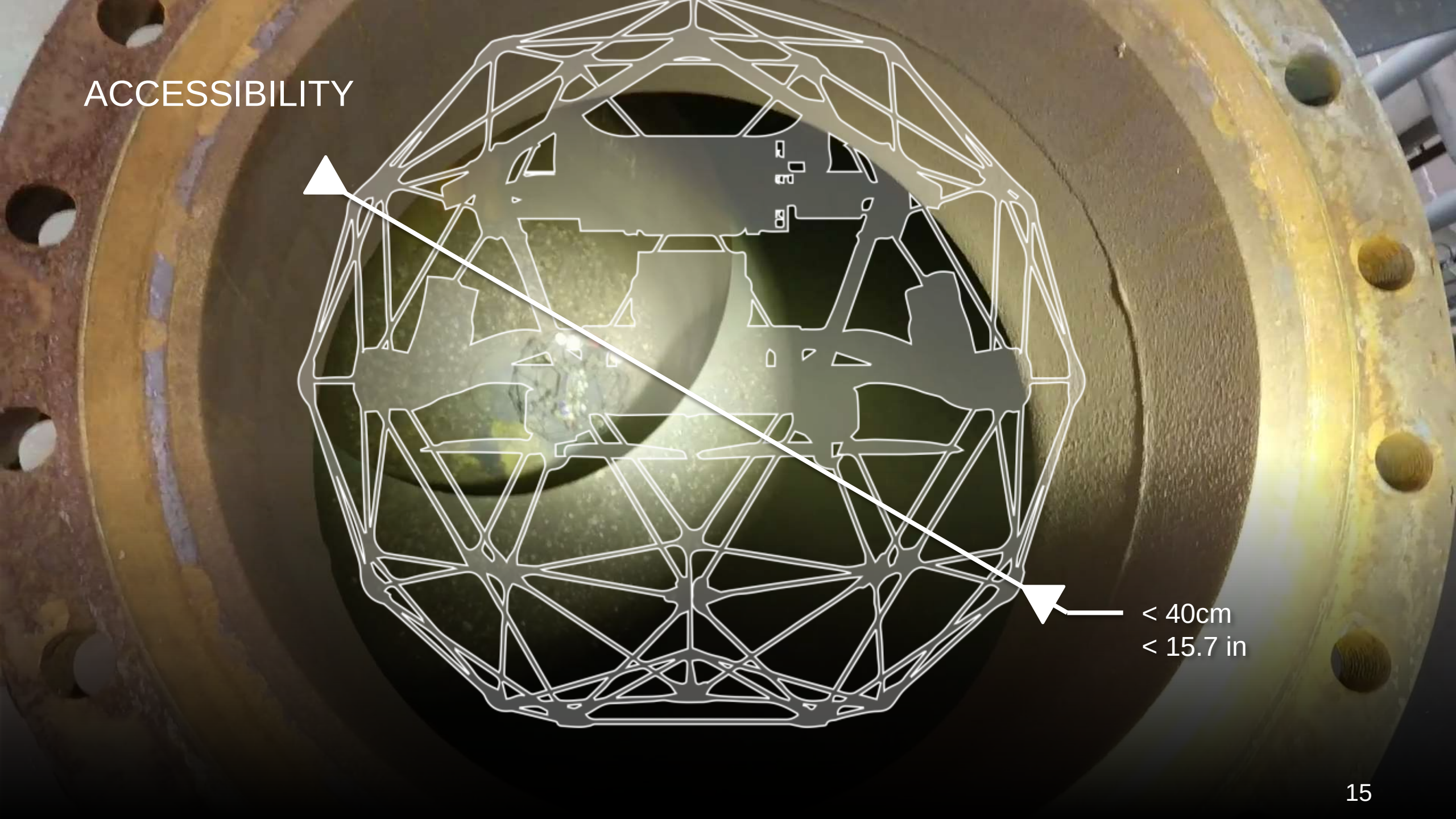
Patented Technology

SHOCKPROOF PAYLOAD



Patented
Technology

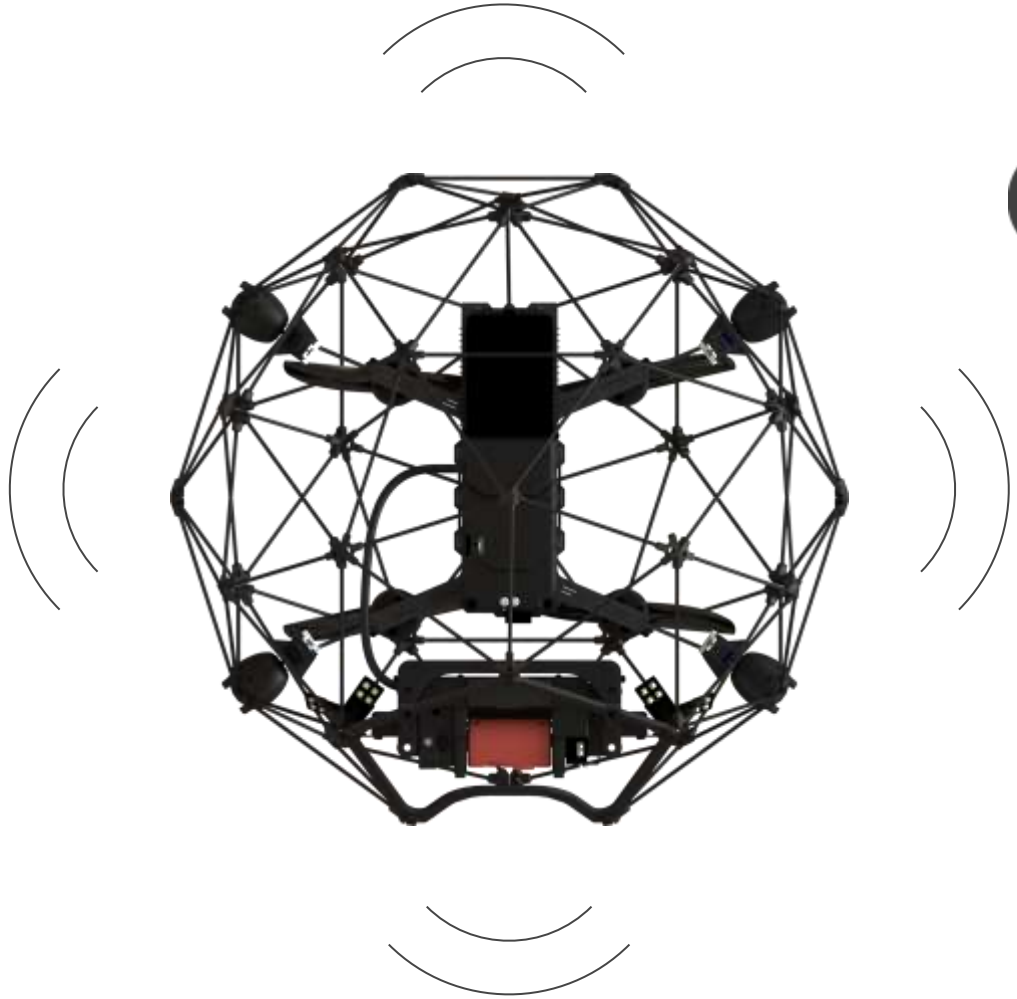
ACCESSIBILITY



GPS-LESS STABILIZATION

FEEL LIKE A SEASONED PILOT

RIGHT FROM THE FIRST FLIGHT.

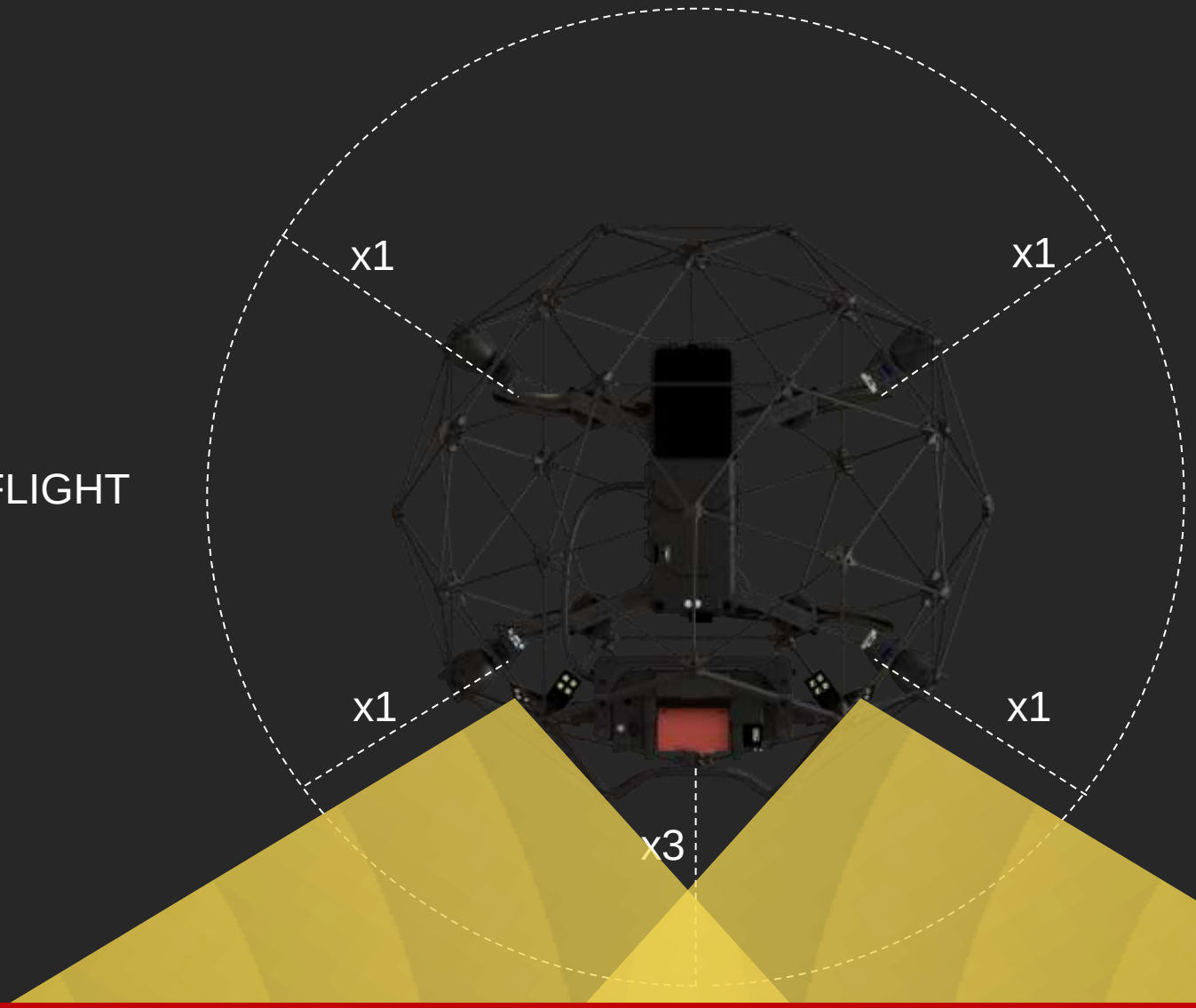




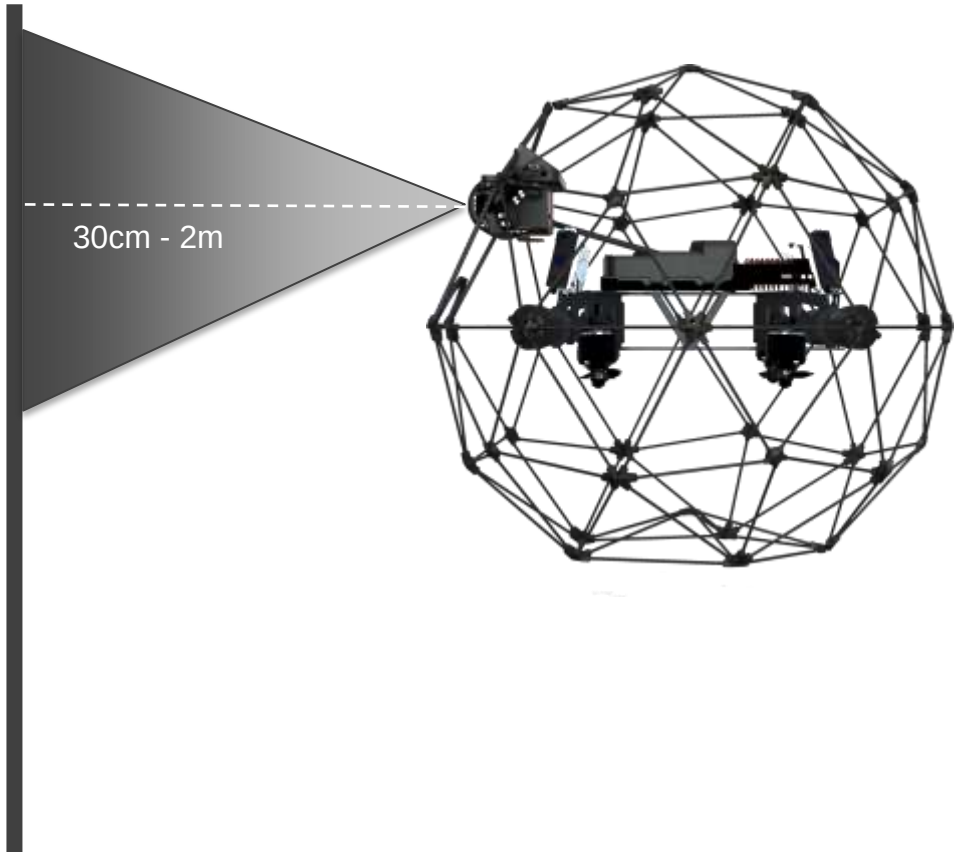
GPS-LESS STABILIZATION

FEEL LIKE A SEASON PILOT

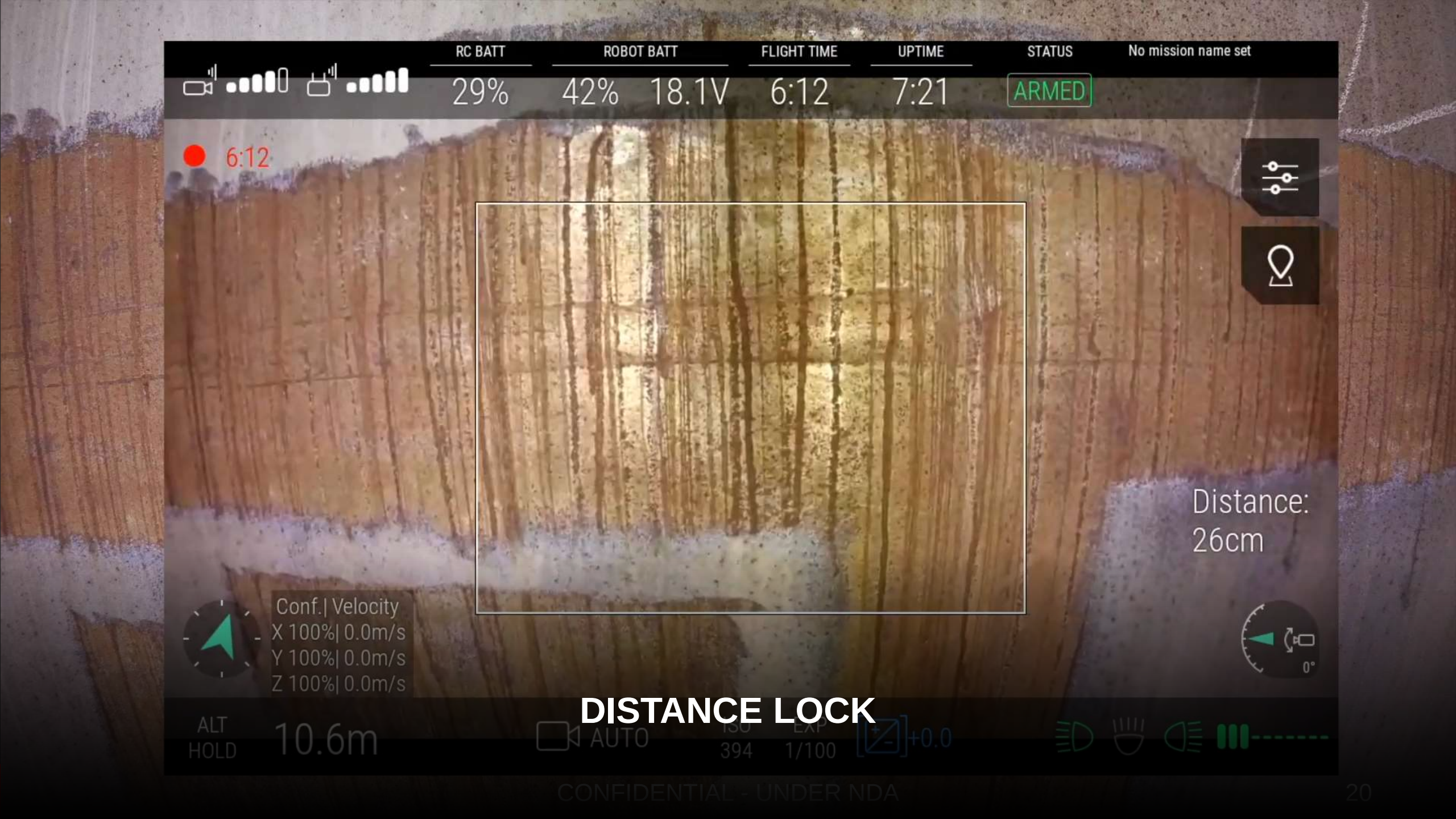
RIGHT FROM THE FIRST FLIGHT
EVEN IN PITCH DARK.



DISTANCE LOCK



SEAMLESS DATA CAPTURE
OF LONG PATTERNS.



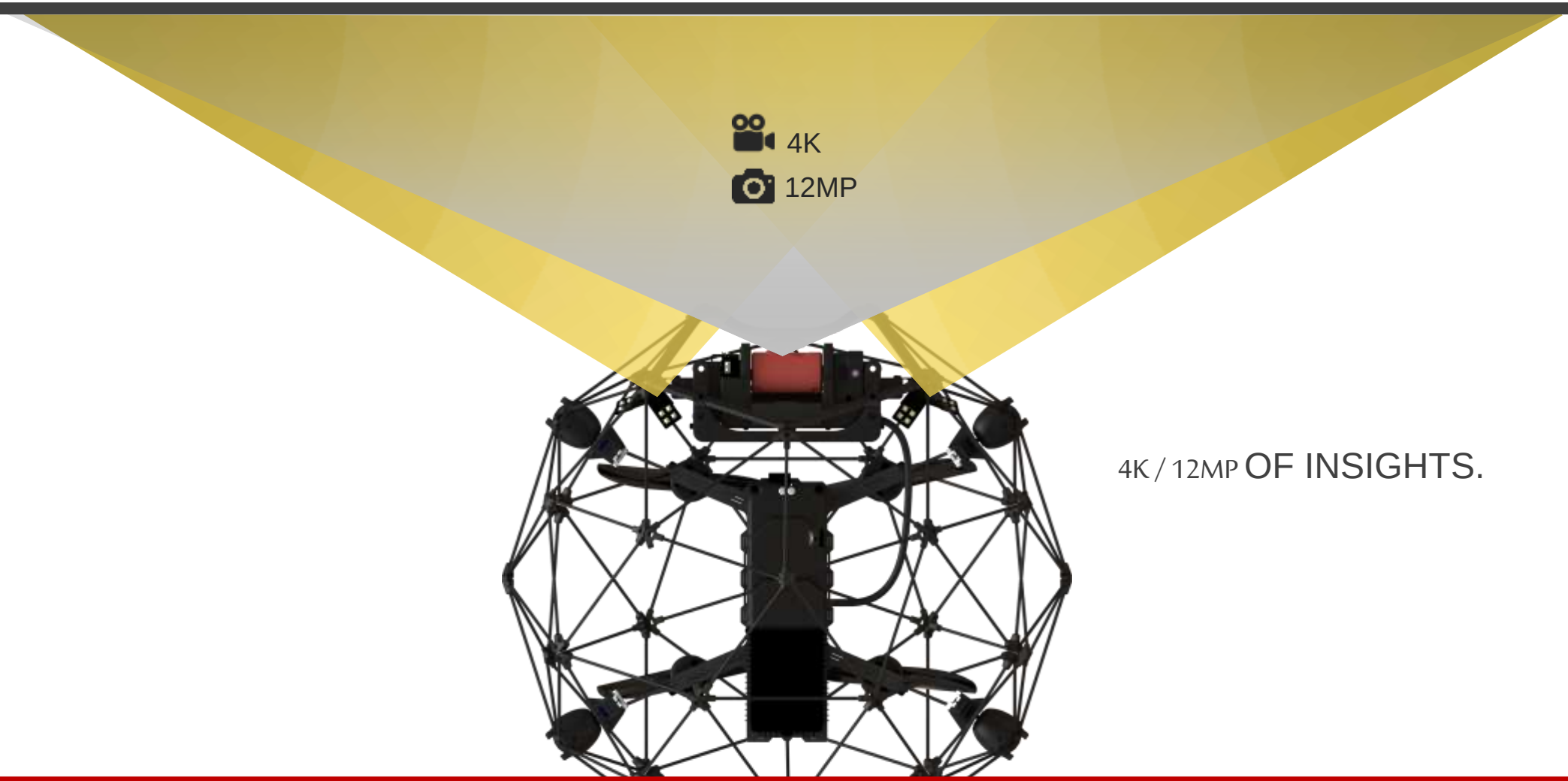
DISTANCE LOCK

CONFIDENTIAL - UNDER NDA



HD LIVE STREAMING

4K CAMERA



4K / 12MP OF INSIGHTS.



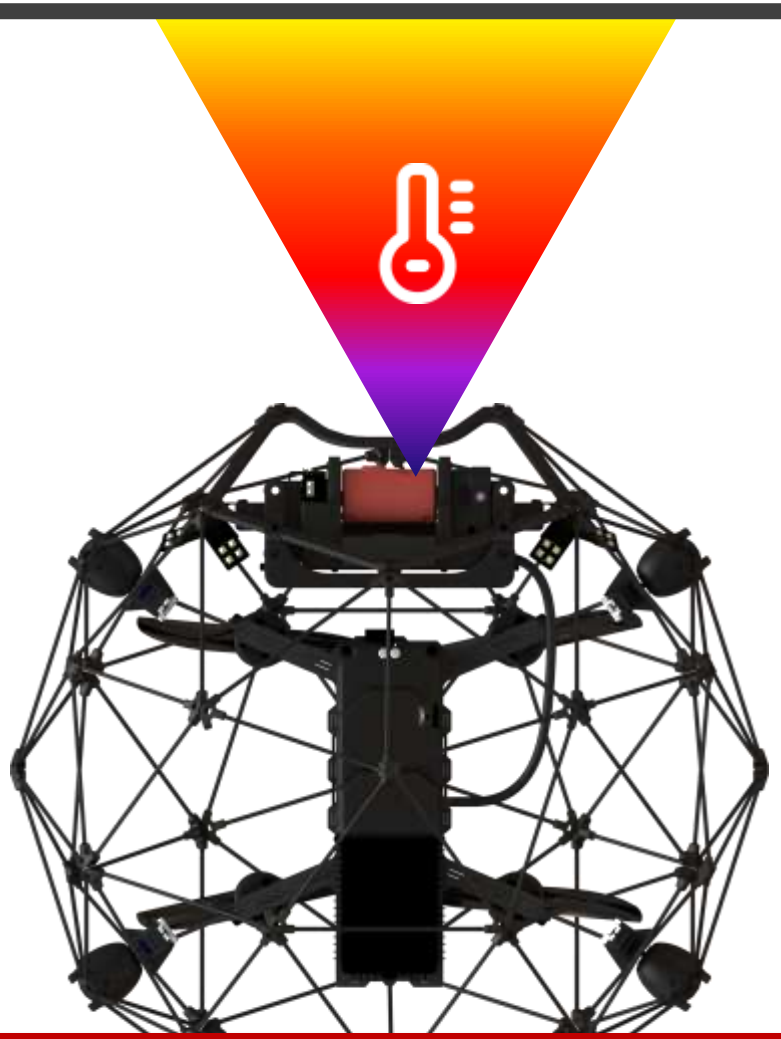
CLOSE UP INSPECTION



0.18 MM/PX @ 30 CM.
0.007 IN/PX @ 11.8 IN.

1mm crack

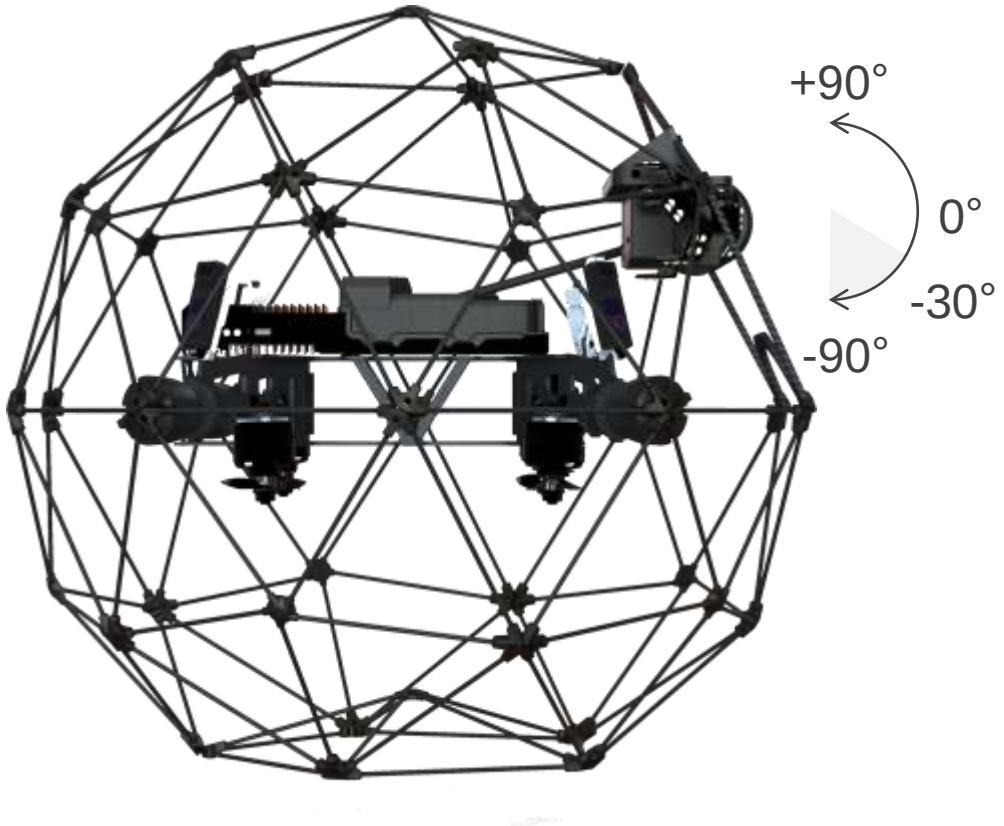
THERMAL CAMERA



BEYOND HUMAN VISIBLE.

160 X 120 PIXELS @ 9 FPS

180° TILTABLE CAMERA POD

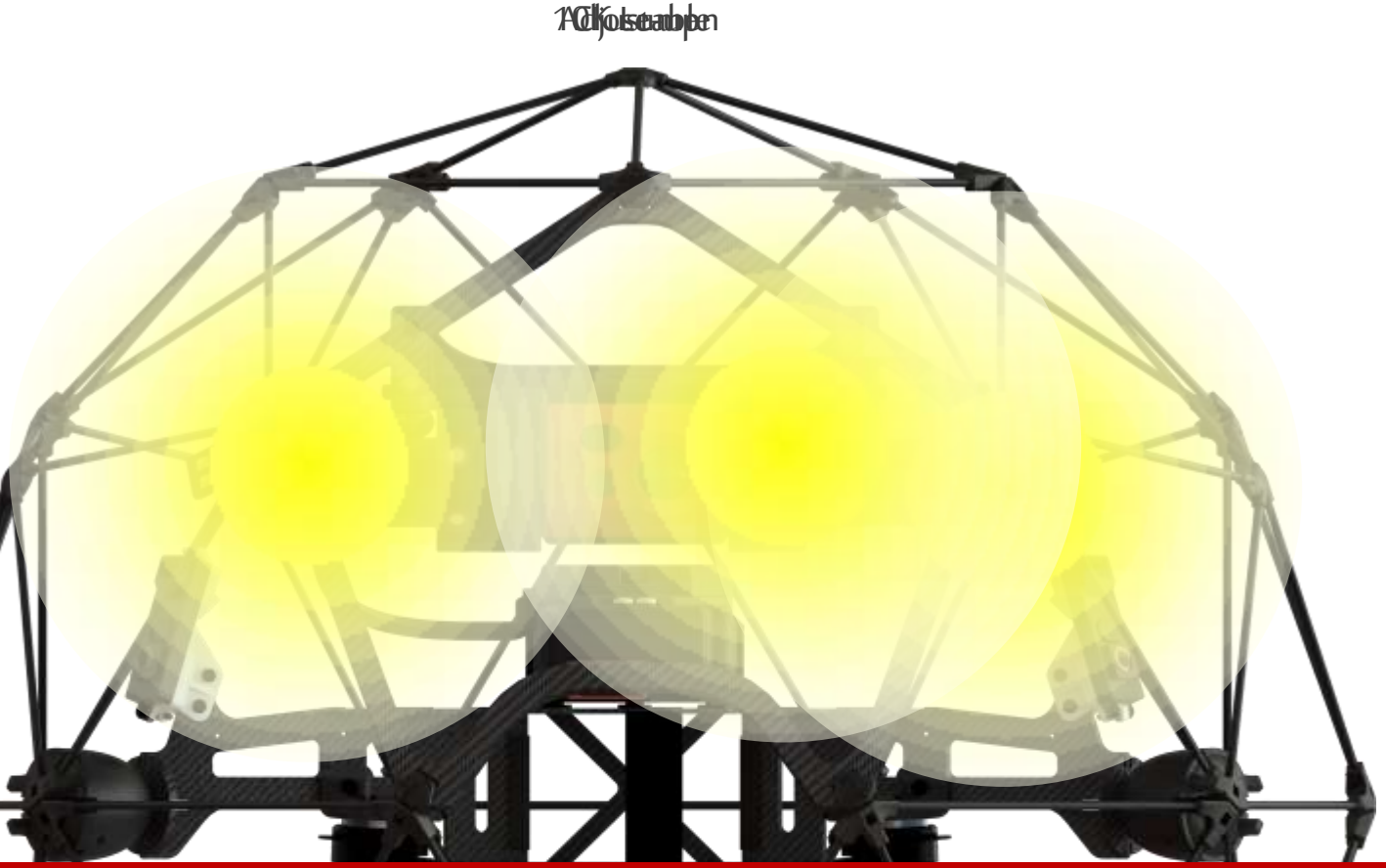


FROM FLOOR TO CEILING.



BURNER CLOSE UP INSPECTION

POWERFUL AND ADJUSTABLE LIGHTING



SHED LIGHT ON EVERY DEFECT.

5X MORE THAN ELIOS 1

DUSTPROOF LIGHTING



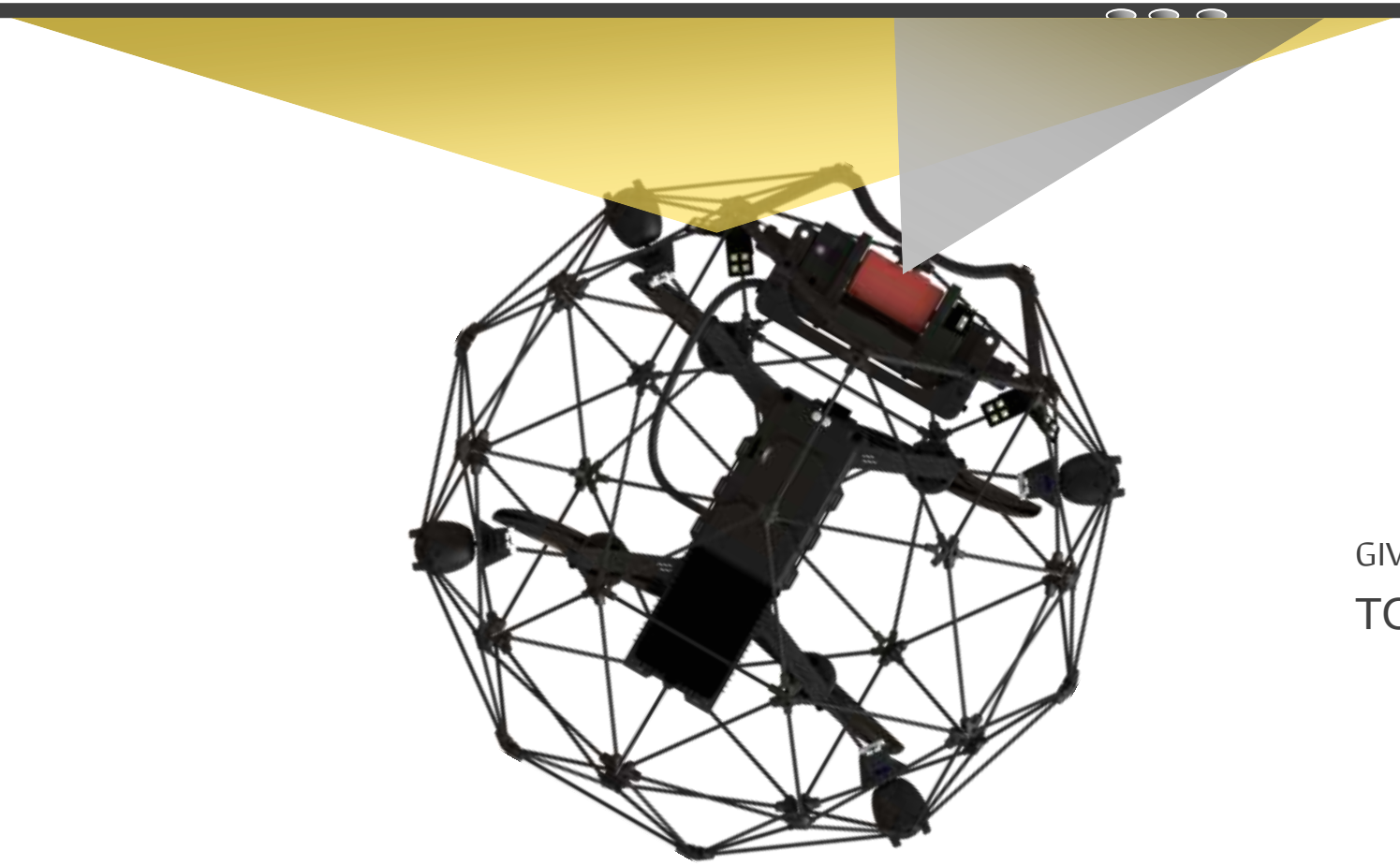
INDIRECT LIGHT

TO CLEAN DUST AWAY.



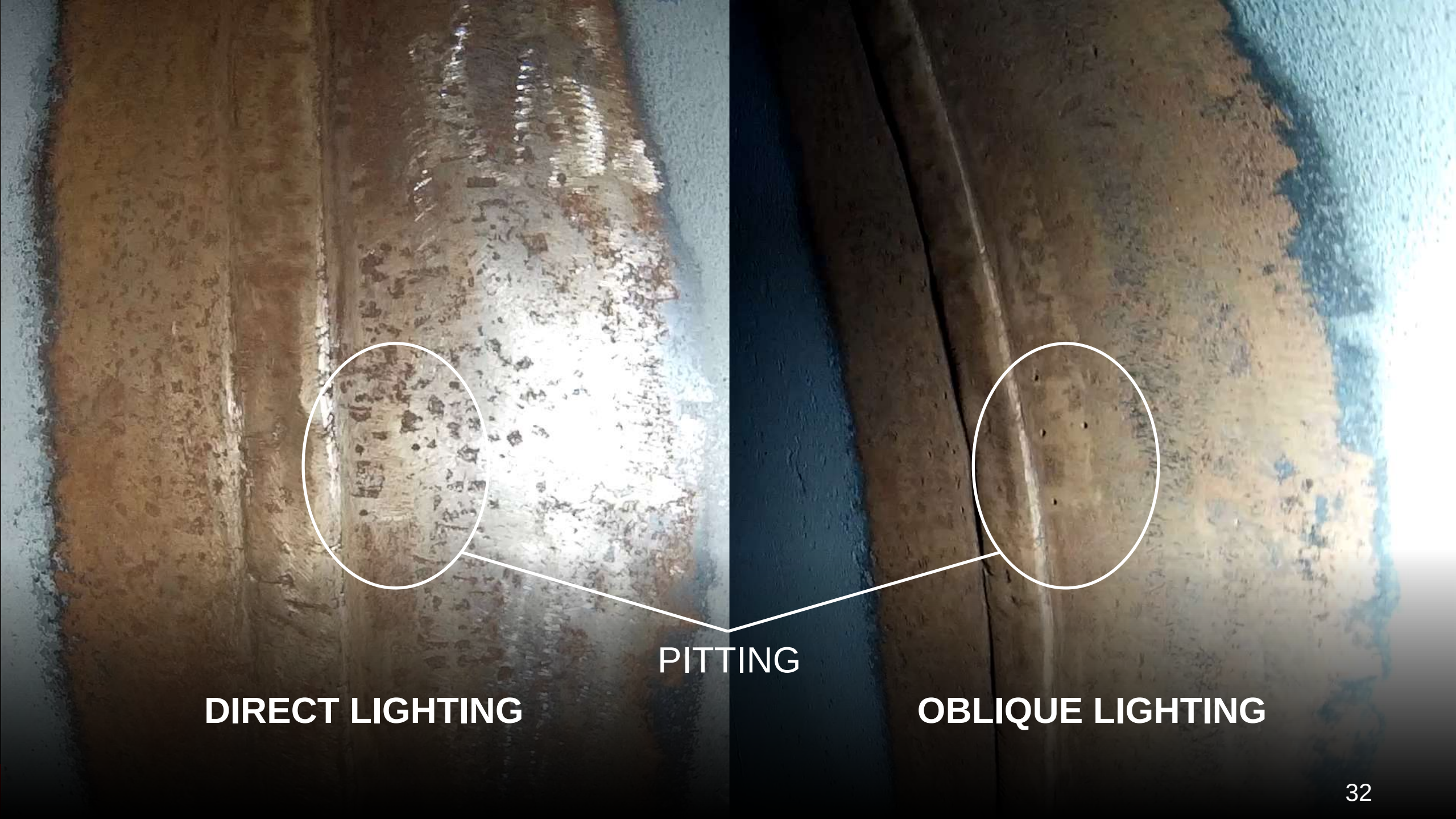

DUSTPROOF
NORMAL

OBLIQUE LIGHTING



GIVE TEXTURE

TO YOUR DATA CAPTURE


PITTING
DIRECT LIGHTING
OBLIQUE LIGHTING

CLOSE-UP 3D MODELLING

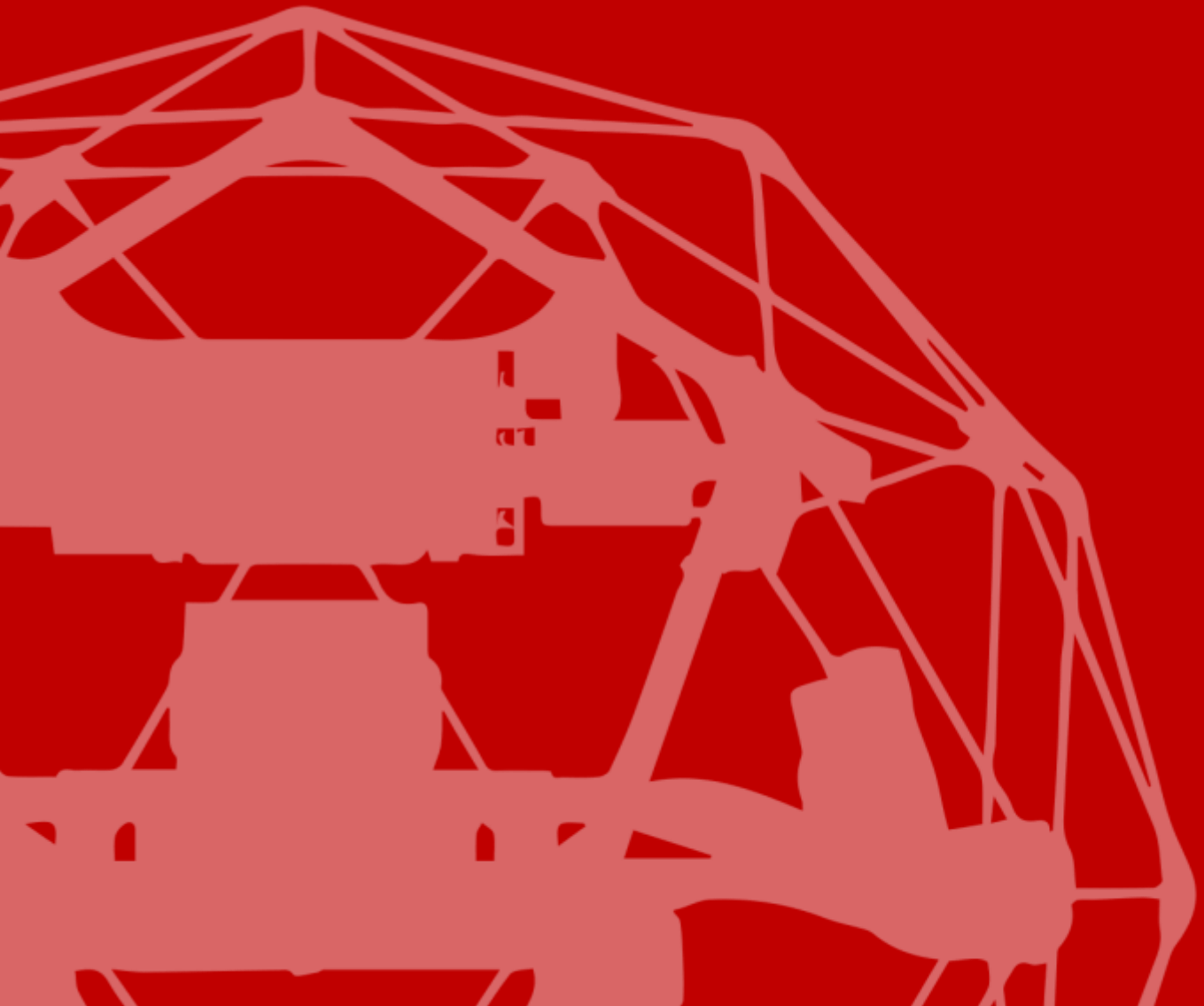


CHANGING THE WAY

YOU DELIVER, VISUALIZE, AND INTERPRET DATA.



3D MODELING WITH ELIOS 2



Děkujeme

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