

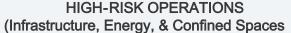
CLEO ROBOTICS

Bringing Physical AI to Unreachable Places



Cleo

Lack of Data Where It Matters Most: Delaying Decisions, Driving Costs, Risking Lives





Dangerous Inspections
Oil & gas, nuclear, mining, energy



Digital Twins
Construction, manufacturing, aerospace



The future of work:

- Elimination of dangerous jobs
- Automation of repetitive tasks
- Digitizing the physical world
- Utilizing AI for decision making

Dronut



Unparalleled data capture where others can't go Al-powered flight for the most critical and inaccessible spaces





INTELLIGENT

A suite of sensors and an AI engine allow for autonomous operation



EFFICIENT

Capture real - time data and make faster, safer and smarter decisions



COMPACT

Collect data in places that no other robot or human can access



SAFE

Fly safely around people and sensitive equipment

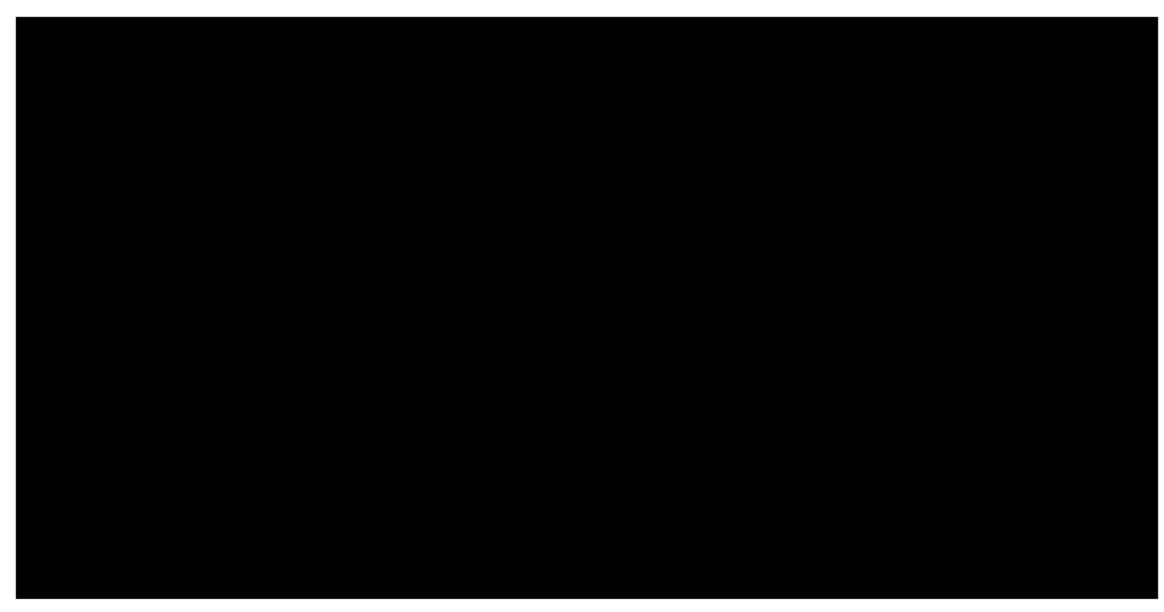


PATENTED TECHNOLOGY

Controlled by Cleo's proprietary thrust vectoring technology



Dronut in Action





The Dronut isn't just a better drone —it enables entirely new capabilities

Dronut: The Only Solution for Operation in Confined Environments and Near People and Sensitive Equipment

Attribute/Feature	Dronut	Traditional Drones	Legged Robots	Wheeled Robots
Compact Size	☑ Ultra-Compact	○ Too Large for Confined Areas	Sulky & Requires Clearance	Space-Consuming & Rigid
Safe Around People & Equipment	✓ Hidden Rotors, Collision- Resistant		Stable but Risk of Falling	Stable but Limited Mobility
Indoor Operation	Optimized for Indoor Use		Can Operate Indoors	Works Indoors, Limited Navigation
Confined Space Operation	Maneuvers in Tight Spaces	◯ Too Large & Risk of Damage		Cannot Access Confined Spaces
Autonomous Al- Powered Navigation	Fully Autonomous, No GPS		Slow & Unstable in Tight Spaces	

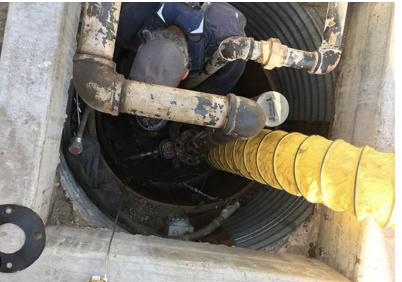
3D Mapping of Challenging Environments in Naval Vessels



The Problem

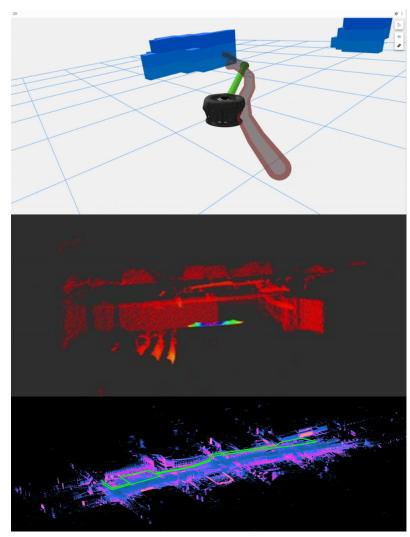
- 1. Existing 3D mapping technologies used by the BIW and the shipbuilding industry are difficult to deploy in tight spaces typically encountered aboard navy vessels, and often cannot be used in confined or hard to access areas
- Due to line-of-sight limitations presented by fixedpoint scanning, common scan techniques often leave "blind-spots", resulting in incomplete compartment scans





The Solution

- Cleo's solution collects data in these challenging environment in minutes, significantly reducing the manpower and time needed to 3D map entire ships
- Data collection includes LiDAR point cloud data and high resolution imagery. Data is then processed to generate high fidelity 3D maps





Cleo's Solution: Key Features

- 4K video capture
- Collection of 30,000 Lidar data points per scan at a frequency of 10 scans per second
- Reliable operation in confined and challenging shipboard environments
- Operation by unskilled drone operators with minimal training (3 hours)
- Data is stored on SD card
- Data is processed to generate colorized 3D digital reconstructions
- Digital reconstructions are generated at a rate of 15 minutes per 100 sqft



Digital Reconstruction Example







CLEO ROBOTICS

Enabling Physical AI in Unreachable Places

OMAR ELERYAN
CO-FOUNDER & CEO
omar@cleorobotics.com