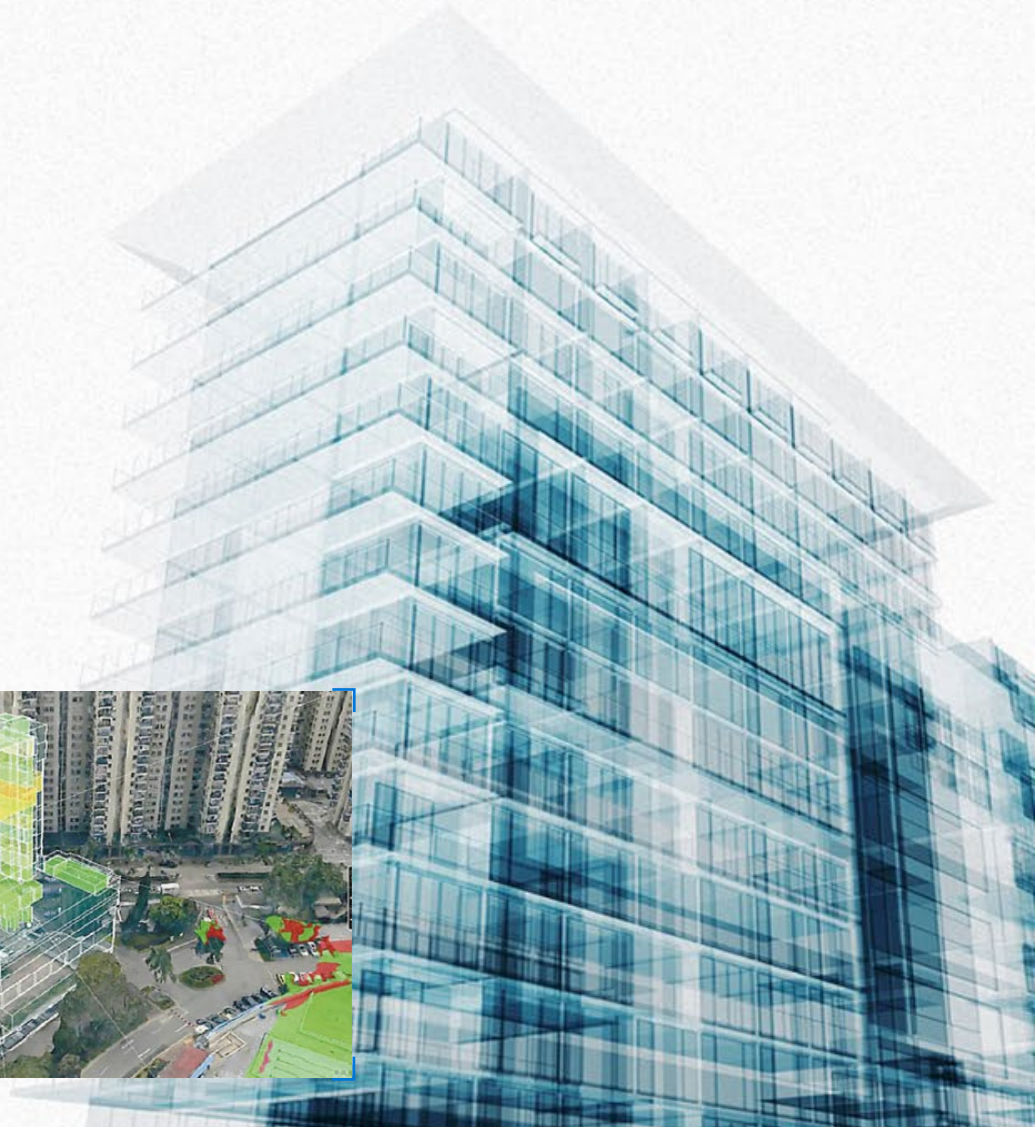
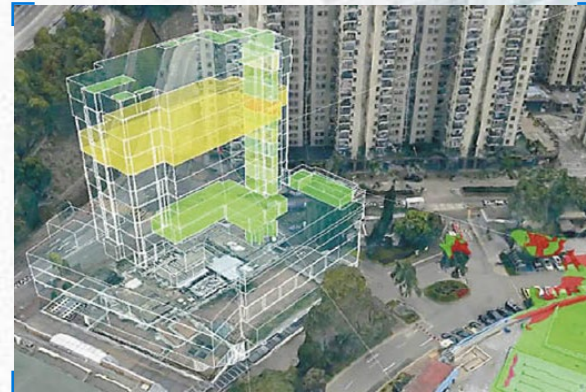
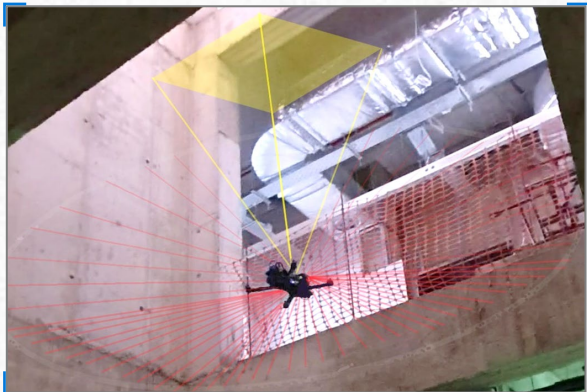


AI-SCEND

AUTONOMOUS UAV-ENABLED IMAGE-BASED INSTANCE SEGMENTATION

Michael Striligás – Founder & MD
mstriligkas@vertliner.com

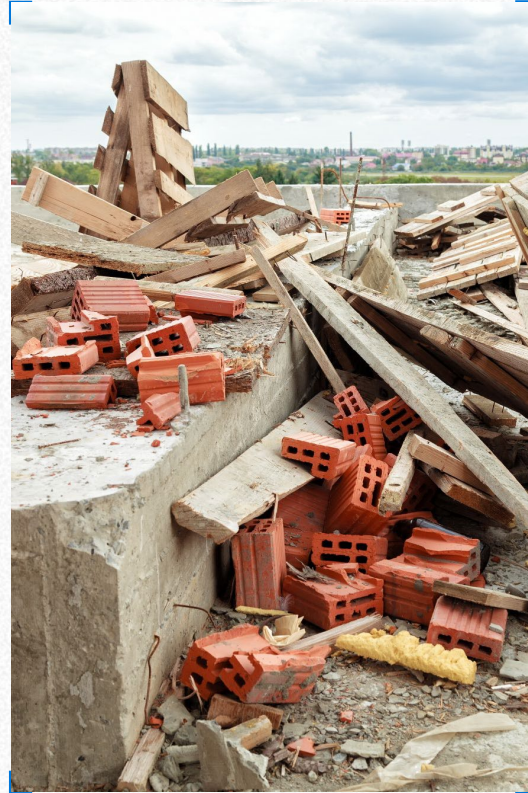


PROBLEM

Monitoring and Inspection activities are essential, but **inaccurate** and **hazardous**
Communicated data are **inconsistent** and **costly** on the way to be acquired

ANALOG MINDSET

LABOUR INTENSIVE



Lack of Accuracy

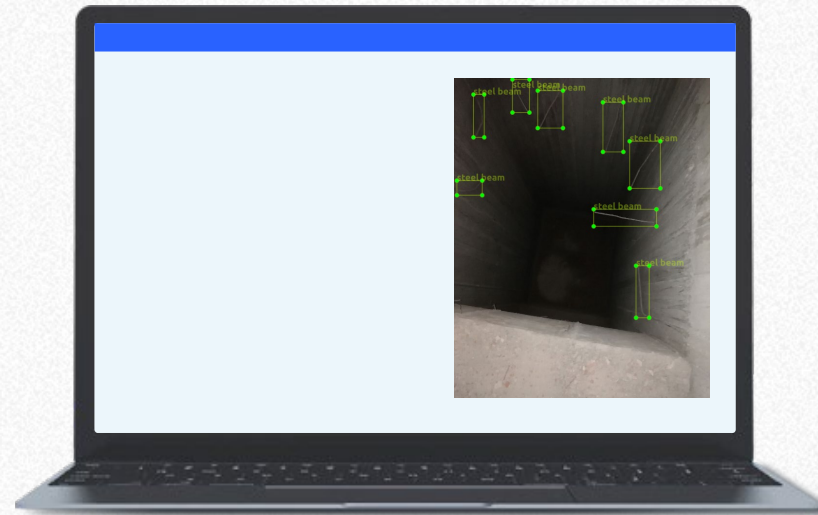
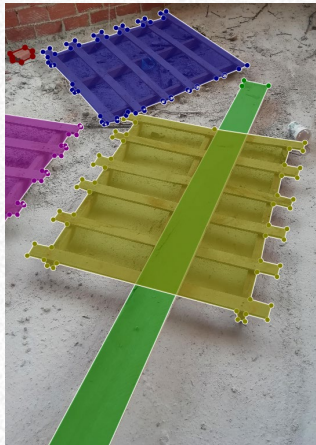
High Volume of Inspections

Long Assessment Times

Productivity / Safety

SOLUTION

Robotic end-to-end integrated solution for **Monitoring** and **Inspection** activities.



Real-Time Object Segmentation

- 01** Access to **GPS/GNSS denied** environments
- 02** **No** technical **skills** required
- 03** 100% **Safety** achieved
- 04** Object Classification
- 05** AI-Powered **Defect Detection**

MARKET

A.I. in CONSTRUCTION MONITORING



Source: Technavio 2023
<https://www.technavio.com/report/artificial-intelligence-ai-in-construction-market-industry-analysis>

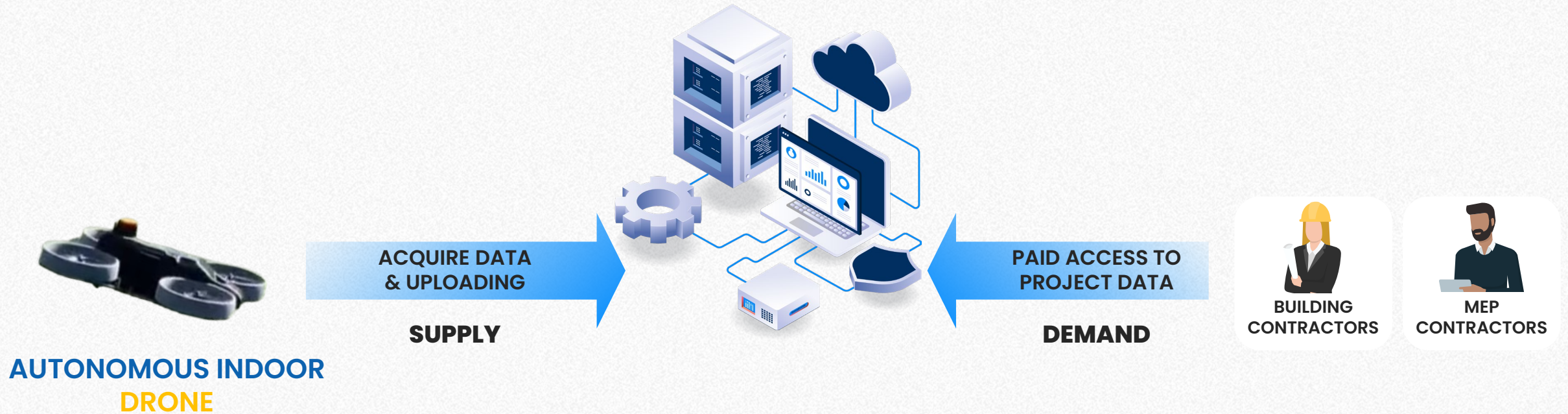
Source: Mordor 2023
<https://www.mordorintelligence.com/industry-reports/artificial-intelligence-in-construction-market>

Market Concentration



BUSINESS MODEL

Robotics + Marketplace as a Service (B2B)



ACHIEVEMENTS

Technical + Commercial



TRL

MRL

	Q1 – Q2 21'	Q3 21' – Q1 22'	Q2 22' – Q4 22	Q1-Q2 23'	Q3 23' -> Q4 24'
TRL	Built customized aerial platform / GPS-denied	Develop AI sensor fusion and onboard data processing	Integrated post-processing workflow on the cloud	AI / Embedded Semantic Classification	
MRL	2x MoUs with EU-based Elevator Installers	2+ Adoption Customers 30+ Pilot Projects	5 FT Employees €2.5K Pilot Projects 2x LOIs	1x Commercial Agreement 1x Collaboration Agreement	

TEAM



Michael Striligás

MD/Commercial Lead

15 Years in Commercial Operations EMEA/APAC



Petros Tsampiras

Robotic / AI Engineer

3Y in Robotics R&D



Thanos Papamarinos

Robotic Mechanical Eng.

3Y in Aerial Robots R&D



Antonis Venianakis

Technical PM

2Y R&D in Surveying



National Technical University of Athens



Ioannis Alamanos

Computer Vision/SLAM

2Y R&D in SLAM



National Technical University of Athens



Mihalis Diakonikolis

Innovation PM

2Y in Project Management



Go-To-Market Strategy

2024

STAGE B

- Obtain regulatory approval in the EU
- Hire 1x sales director, 1x business developer, 1x digital marketing
- Develop 15x autonomous aerial robots for mid-rise buildings
- Collaboration with 2x DIH and 3x EU construction companies

2023

STAGE A

- Hire 1x Sr. Robotic Eng., 1x AI Engineer
- Strategic pilots with 1x Corporate Entity (Construction)
- Expand IP portfolio in the EU

Data Value Chains

Data Acquisition

Data Acquisition
Data Pre-Processing
Data Storage
Data Analysis

Data Storage
Data Analysis
Data Visualization

Data Analysis
Data Visualization

Data Provider

VERTLINER

POWERBIM

PHASMATIC

Images

Segmented Objects

Enhanced BIM

Photorealistic Model
Increase UX

Video Streams



AI-SCEND

AUTONOMOUS UAV-ENABLED IMAGE-BASED INSTANCE SEGMENTATION OF INDOOR SPACES



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