

Dronitaly



AI VIEW GROUP

# Airspace Intelligence







**Started in 2012 in a feb sunny day  
Our first Autostrade per l'Italia  
challenge**

**Better than Steve, Bill, Mark and Jeff.  
Not a dark GARAGE,  
under a bridge in the open air.**



# Applying Intelligence Changing the point of **VIEW** **Group**ing Technologies



Few months later...

Drone with protected propellers  
On Top Remoted Camera Mount  
Ultrasonic Distance Measurement System

...A STAR IS BORN





Founded in 2012  
Headquarter in Rome, Italy  
25 Employees + 30 Collaborators

From 2023 EU HQ of Aerodyne Group



## Technologies and Services for the new Drone Economy

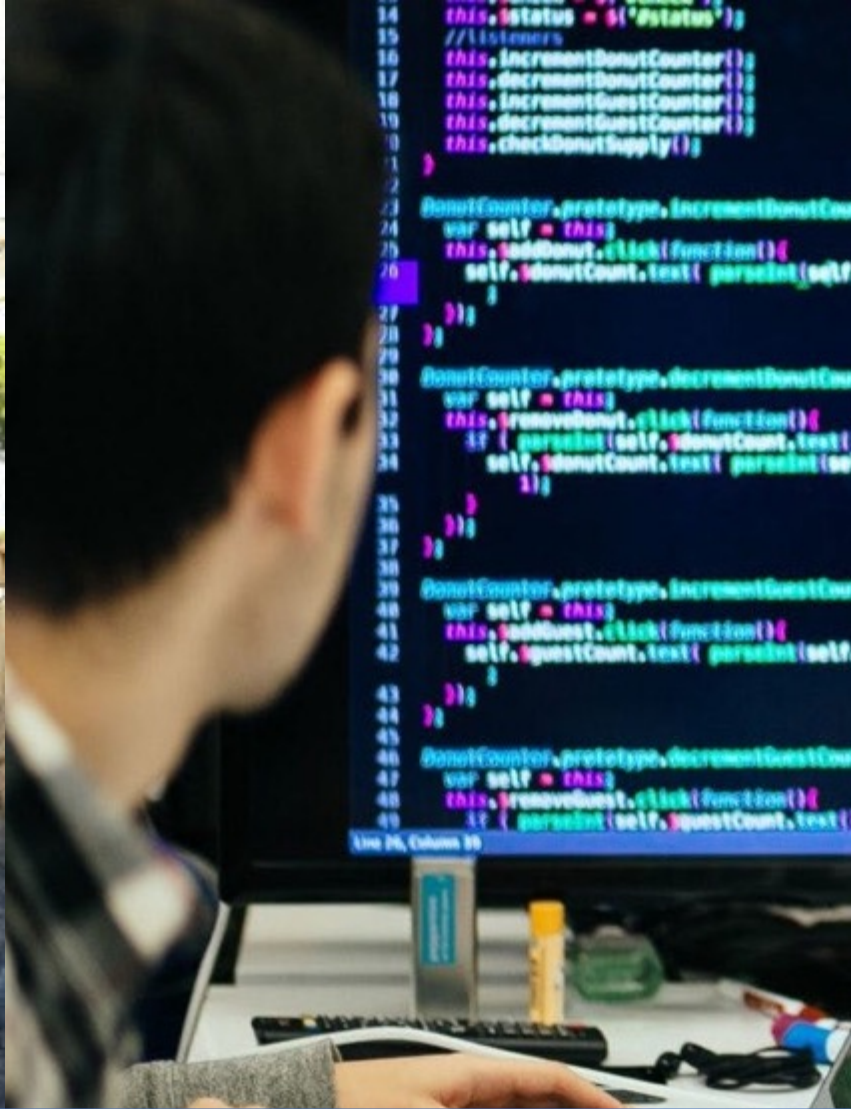
«*WE HELP COMPANIES IN THE ADOPTION OF UNMANNED SYSTEMS IN THEIR ENGINEERING, OPERATION AND MAINTENANCE PROCESSES*»





# Certified Pilots

VLOS, Confined Spaces,  
BVLOS, Remote



# Tech Experts

Solution Architects, Software devOps,  
3D specialists and Data Scientists

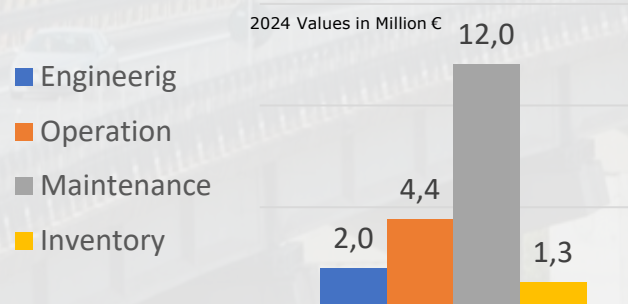
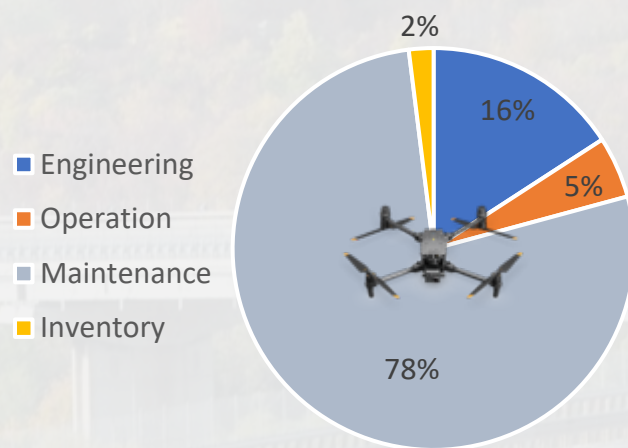


# Professionals

Engineers, Geologists, Architects,  
Certified Bridge Inspectors



## +10 years of Drone Market Experience



### Inspection and surveys

+4000  
Bridges

+6000  
Caissons & Piles

+1200  
Hydraulic pipes

+600  
Rockfall Barriers

+750  
Surveys

+450  
Service Areas

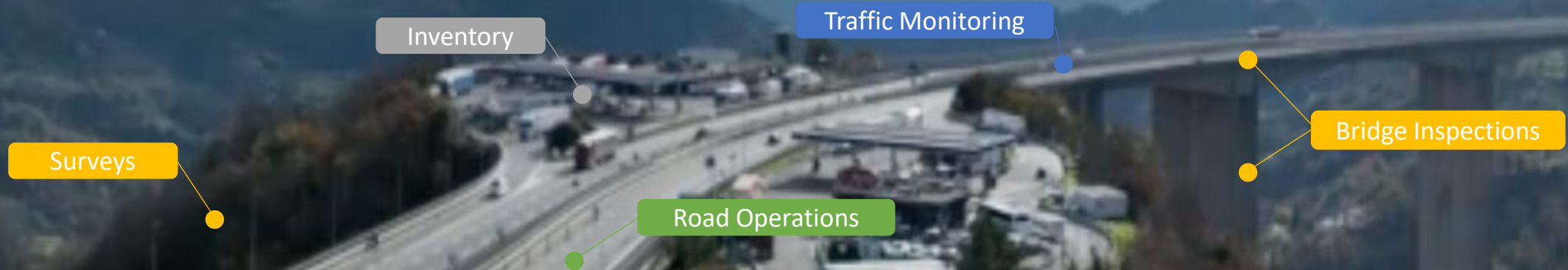
### Traffic Monitoring

+2000  
Remote & planned  
Traffic Monitoring  
Missions



# TRANSFORM HOW YOU MONITOR, PERFORM INSPECTIONS AND INVENTORY ASSETS

## AI Technology & Platform Framework



### 1. OPERATIONS - VLOS – BVLOS



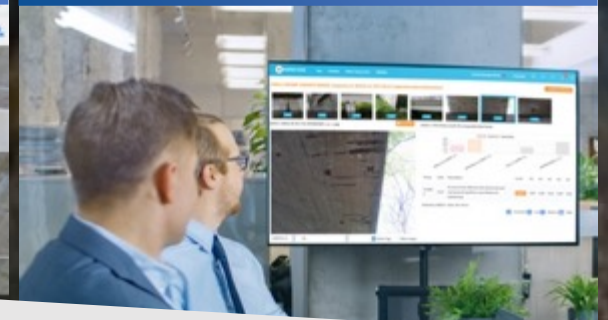
### 2. REMOTE & AUTONOMOUS OPS



### 3. AI & DATA INTELLIGENCE



### 4. CERTIFIED RESULTS



#### INSPECTION AUTOMATION

Vlos piloted, Bvlos & remoted recurrent inspections for defects and modelling. C2 Room with Live Streaming



#### ASSET DIGITALIZATION

Digital twin of the asset for defect analysis and measures. CAD and BIM for asset management



#### INTELLIGENT ANALYTICS

ML and AI for defect detection, quantification, indicators and to generate qualified reports



AI-INSPECTION INTELLIGENCE PLATFORM

We tracks defects in your asset to provide maintenance alerts, prevent unplanned expenses and maximize annual O&M budgets.

AI-Inspection provides SaaS service that extracts and predicts precise and qualified information from existing data and day-to-day inspection campaigns delivering certified reports.



MANAGE YOUR ASSETS

Organization, teams, asset types, defect catalogues, severity, intensity, extension, evolution, asset keyplan structure



MULTIPLE DATA VIEWS

Images, 3D Models, PointClouds, BIM/CAD.  
Detected damages on images, 3D and PDF  
Reports



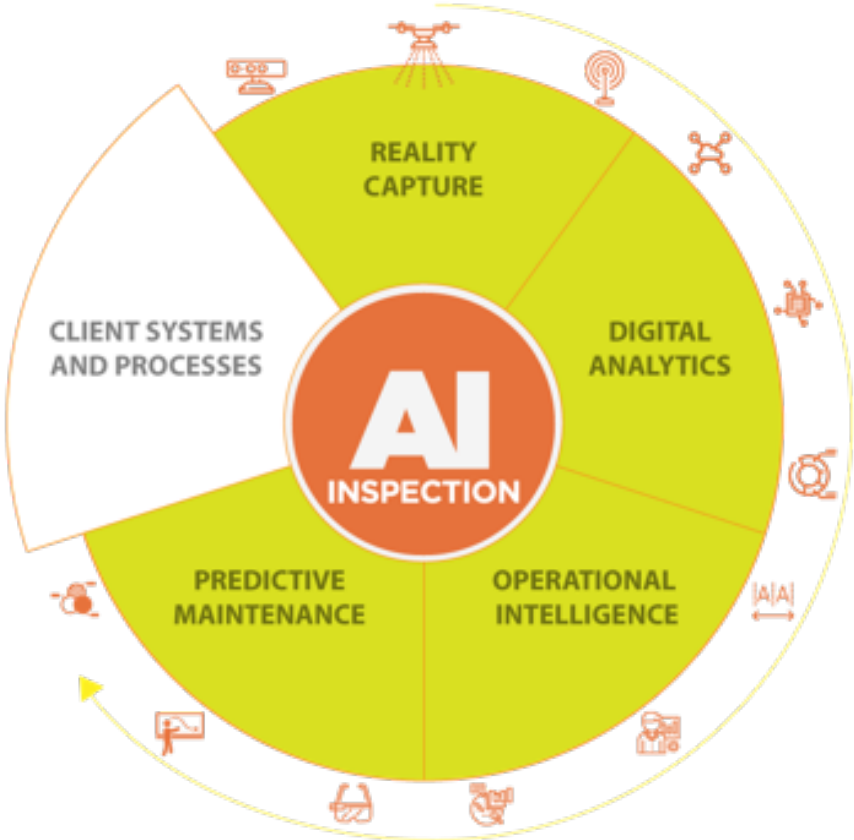
INTELLIGENT ANALYTICS

Identify defects before they evolve into large-scale failures



CERTIFIED REPORTS

Certified report signed by qualified engineers

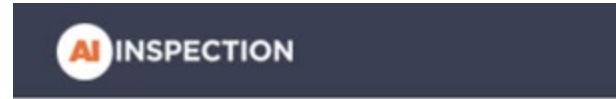




# ZOOM IN THE SOLUTION

## AI Technology & Platform Framework

### AI-Inspection Data Visualization



#### Manage your domain

 Departments  
Manage Organization

 Asset Types  
Manage structures

 Defect Taxonomies  
Manage Catalogues and KeyPlan

 Materials  
Manage Material Lists

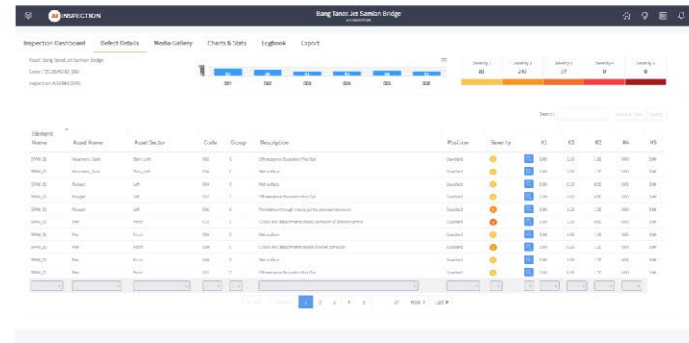
#### Manage your lists

 Task Result Code List  
Add a new Result Code

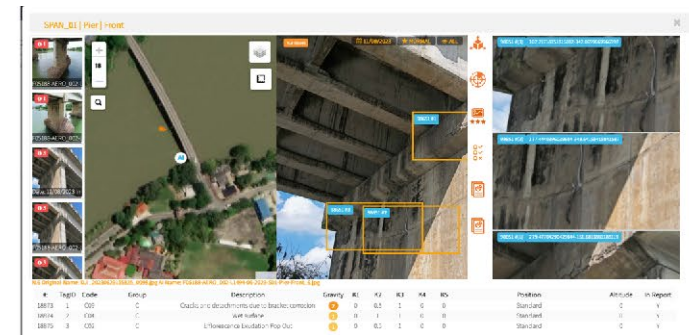
 Task Action Result Code List  
Add a new Action Result Code

 Drones and Inspection Tools  
Add a new inspection tool

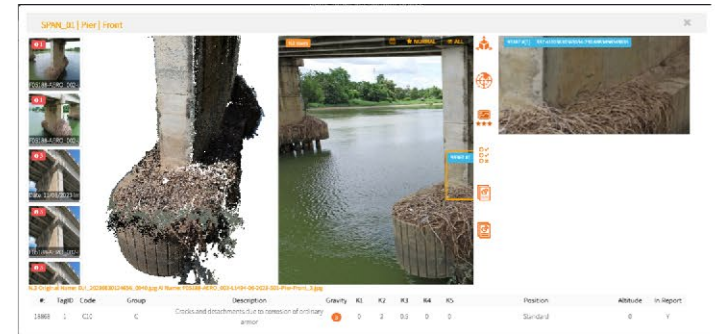
 Vehicles  
Add a new Vehicle



Asset Name	Asset Type	Code	Group	Description	Real Time	Score	K1	K2	K3	K4	K5
SPAN_01	Span	001	0	Span 01	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_02	Span	002	0	Span 02	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_03	Span	003	0	Span 03	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_04	Span	004	0	Span 04	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_05	Span	005	0	Span 05	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_06	Span	006	0	Span 06	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_07	Span	007	0	Span 07	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_08	Span	008	0	Span 08	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_09	Span	009	0	Span 09	Standard	100	1.0	1.0	1.0	1.0	1.0
SPAN_10	Span	010	0	Span 10	Standard	100	1.0	1.0	1.0	1.0	1.0



#	TagID	Code	Group	Description	Gravity	K1	K2	K3	K4	K5	Position	Altitude	In Report
18873	1	C01	C	Crack on the concrete surface	0	0	0.5	1	0	0	Standard	0	Y
18874	2	C02	C	Crack on the concrete surface	0	0	1	1	0	0	Standard	0	Y
18875	3	C03	C	Crack on the concrete surface	0	0	0.5	1	0	0	Standard	0	Y

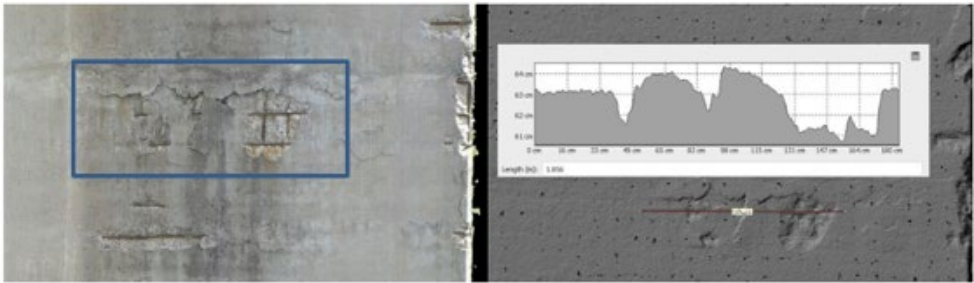
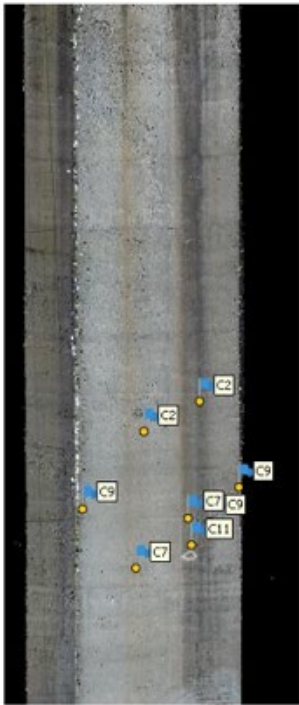
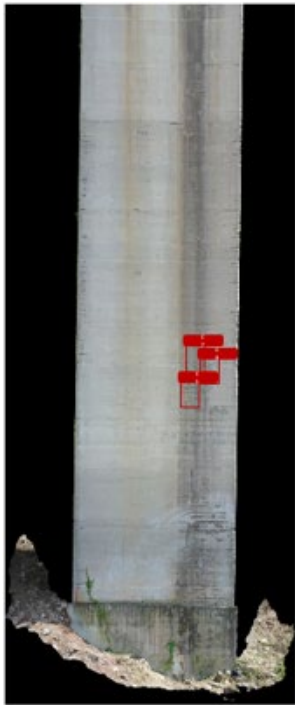


#	TagID	Code	Group	Description	Gravity	K1	K2	K3	K4	K5	Position	Altitude	In Report
18885	1	C01	C	Crack on the concrete surface	0	0	0	0.5	0	0	Standard	0	Y



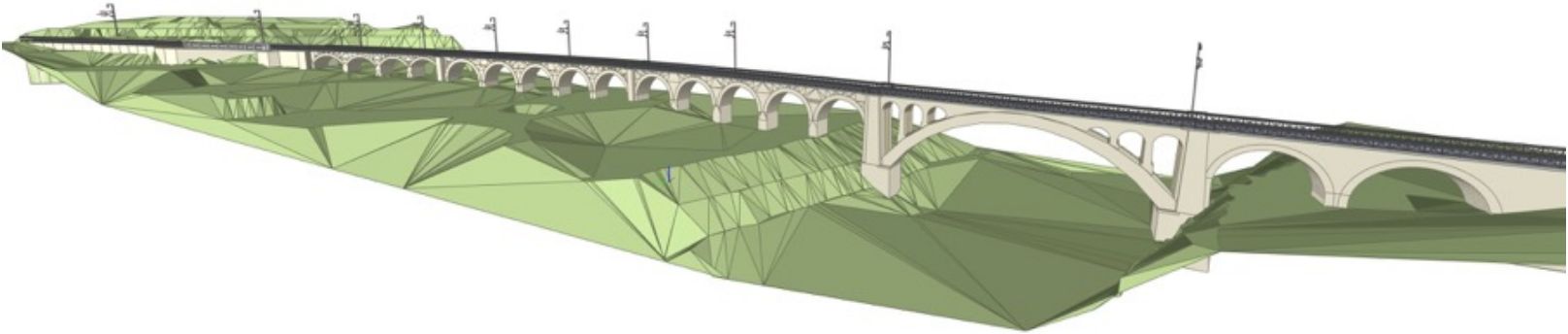
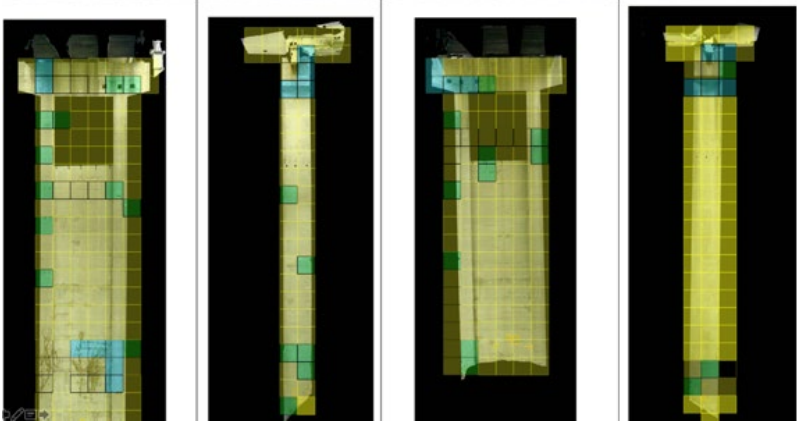


3D Defect Detection, Measurements and Digitalization



Defect Group	Defect Code	Description	Observation level	K1	K2 Param	K3 Param	K4 Param	K5 Param
C	7710-c04	Superficie bagnata	Comment		1.00	1.00	2.00	
A	7711-a01	Distacco vernice protettiva	Comment		1.00	1.00	2.00	
C	7769-c02	Efflorescenza Essudazione Pop Out	Comment	0.00	0.00	0.00	0.00	0.00
C	7712-c09	Fessure e distacchi per corrosione staffe	Low		0.50	0.50	0.50	
RAMI	7770-VEG-1	Rami entro la soglia	Low	0.00	1.11	0.00	0.00	0.00
C	7810-C11	SFOGLIATURA STAFFE	High	0.00	0.50	0.50	0.00	0.00

taxonomy: DOMUS - Date: 2016-11-23





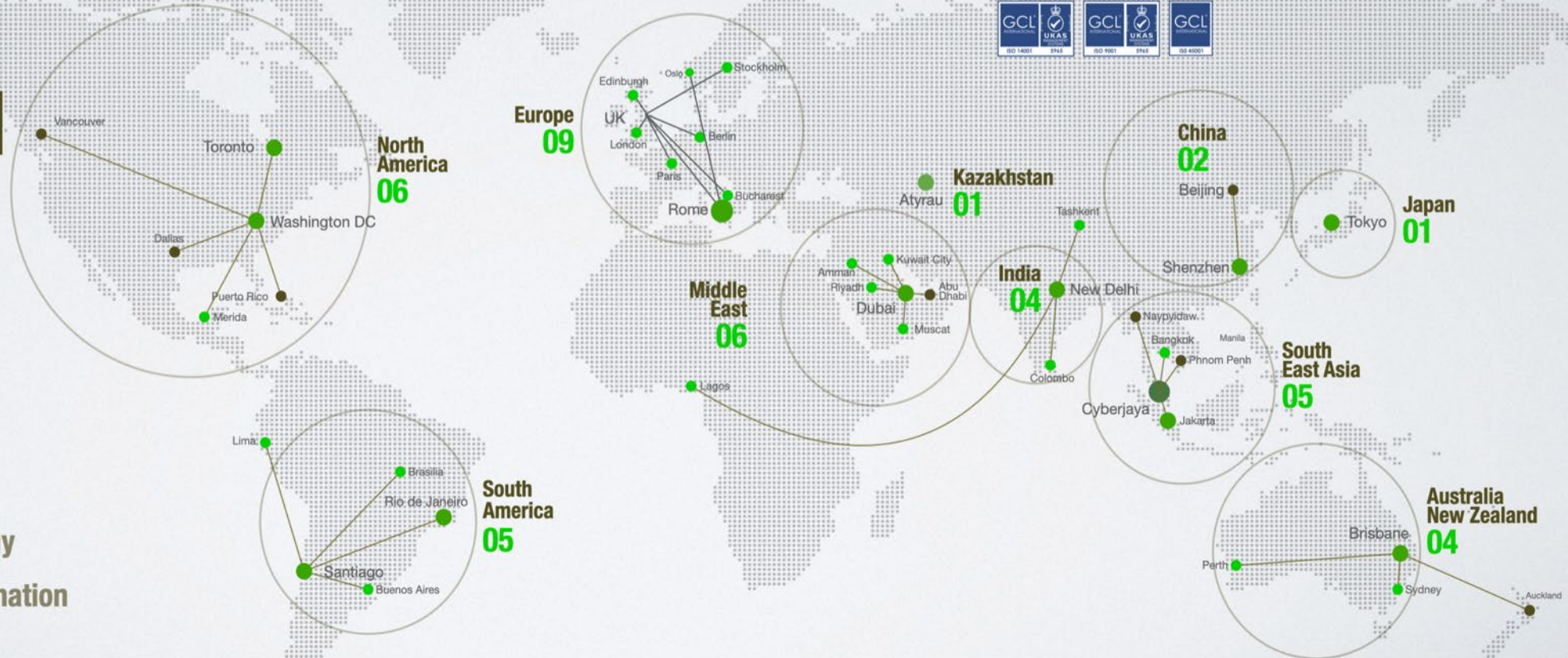
CRITICAL ASSET	AGRICULTURE	POWERLINE	WIND	SOLAR	TELCO	OPERATIONS	CREW	RANKING
<b>560,000</b>	<b>265,000</b>	<b>600,000</b>	<b>7,300</b>	<b>7,000</b>	<b>9,000</b>	<b>44</b>	<b>1,000</b>	<b>1<sup>st</sup></b>
ASSETS INSPECTED AS OF DEC 2023	HECTARES COVERED AS OF DEC 2023	TOWERS/POLES INSPECTED AS OF DEC 2023	WTG INSPECTED AS OF DEC 2023	MW INSPECTED AS OF DEC 2023	TOWERS INSPECTED AS OF DEC 2023	COUNTRIES GLOBALLY	AERO RANGERS GLOBALLY	GLOBALLY 2021 to 2023



**World's #1  
DT3 & Drone  
Solutions  
Provider**

**DT<sup>3</sup>** | Drone Technology  
Data Technology  
Digital Transformation

## GLOBAL FOOTPRINT





## Drone Technology

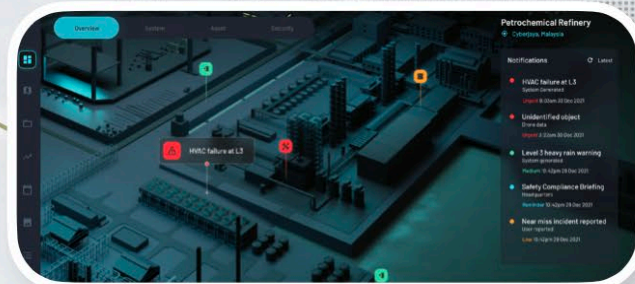
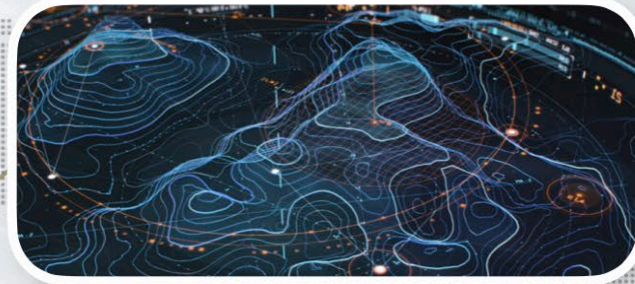
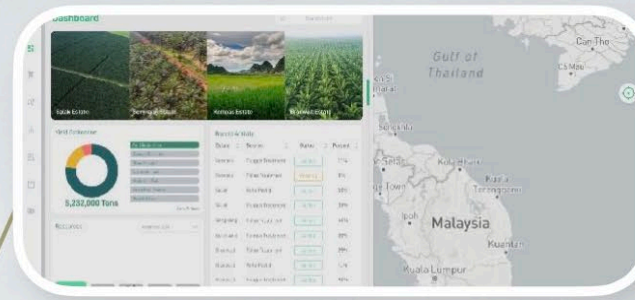
Drone R&D and manufacturing, Sensor development and Integration, RPTO Org, Drone-as-a-service

## Data Technology

SaaS for Industrial solutions. AI and application Development in Machine and deep learning, CPC and Geospatial Technologies

## Digital Transformation

Software integration and training, Turnkey solutions, Technology and people transformation



## AGRICULTURE

Automating and streamlining agriculture for cost and yield optimisation

## SECURITY

Nested Swarm Intelligence System for security and surveillance

## INFRASTRUCTURE

Automating Asset inspections and digitalization

## LOGISTICS

Transforming transportation and logistics with Advance Air Mobility System





# Argentavis

Drone Delivery & Urban Air Mobility System





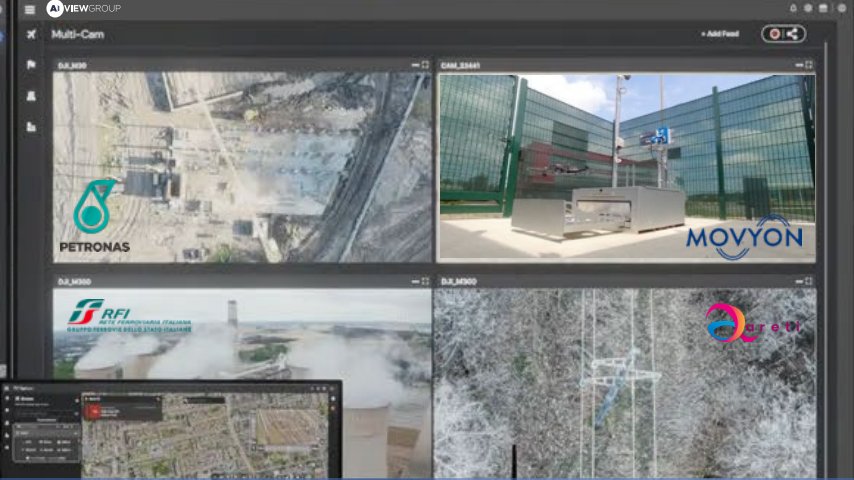
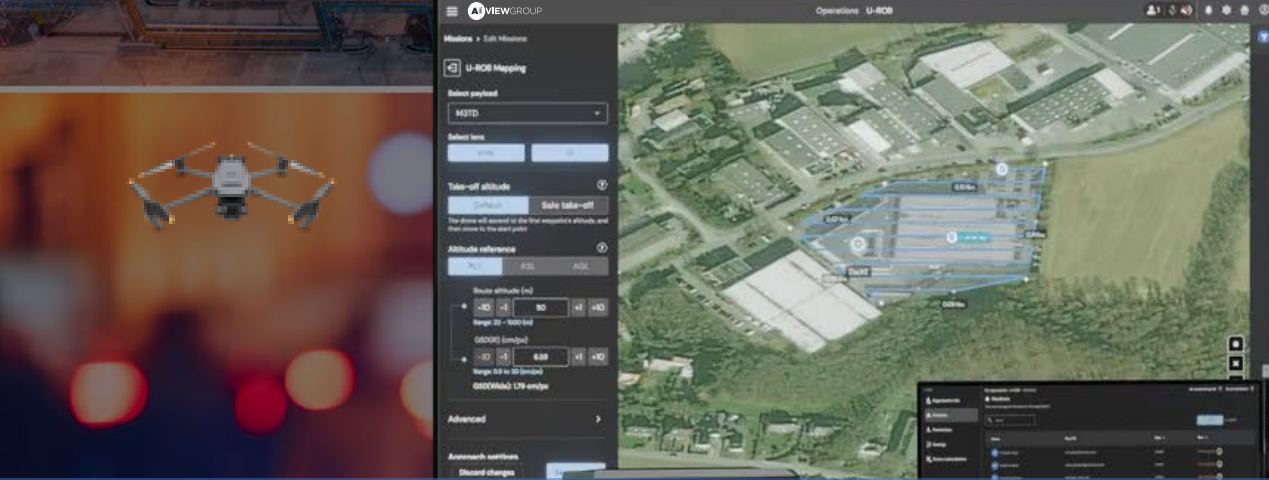
**CERTIFIED COMMAND & CONTROL CENTER**  
UAS.LUC EU 2019/947 Part C (Q4/24)

**AI VIEW GROUP**

ISO  
27001

AICPA  
SOC  
300 2 Type 1

GDPR



# Remote Operations

Inspections, Security, Public Safety  
Search & Rescue, Emergencies,  
Logistic & Delivery.



# Connect your drones

Share and analyze data from  
nested or piloted drones.  
Realtime video and data integration.



**AI-EDGE ONE**

High level of data security



**Enable AI Detection**

**Ensure Security**

**Open to integration**



# FALCO

Autostrade per l'Italia  
Movyon

From Jun 2023  
Still in progress

Genova Area

## USE CASES

- Traffic Monitoring
- Bridge Inspections
- Rockfall barriers
- Road Construction
- Pavement survey
- Perimetral fences

## HIGHLIGHTS

Missions  
+2000

Km flown  
+3400

Evidences  
+21%

Response time  
-50%



## Connect your drones

Share and analyze data from  
nested or piloted drones.  
Realtime video and data integration.



# Thank you

**Nicola Marietti**

CEO Aviewgroup

[nmarietti@aiviewgroup.com](mailto:nmarietti@aiviewgroup.com)

