



ITALDRON AIR SERVICE

CAPTURING REALITY

Advanced digitalization of assets through integrated surveying

MULTILEVEL INTEGRATION



POINT CLOUD

Dense point clouds for georeferenced measurements and volumetric precision analysis



3D MESH + BIM

Seamless fusion of Digital Twin workflows for Asset Lifecycle Management



ASSET DATA

Integrating technical metadata for truly informed predictive maintenance

1:1

FIDELITY REALITY

We create a **centralized technical database** for sharing, analyzing, and continuously updating assets and their management.


Each element of the model is navigable, measurable, and ready for integration into corporate management or asset conservation systems.


3D MESH: THE DIGITAL TWIN

PHOTOREALISTIC RECONSTRUCTION

Our textured 3D Mesh is not just a visualization, but a millimetric replica of the existing conditions

 **Photogrammetric Survey:** Ultra-high-resolution acquisition for absolute chromatic and geometric accuracy

 **Technical analysis:** critical support for remote visual inspections without additional risks.

 **Immersive navigation:** navigation and technical measurements directly on the 3D model, with integration into BIM ecosystems, Digital Twin environments and Asset Management platforms



Real geometry. Intelligent navigation.

DIGITAL TWIN

FROM PHYSICAL REALITY TO ASSET INTELLIGENCE

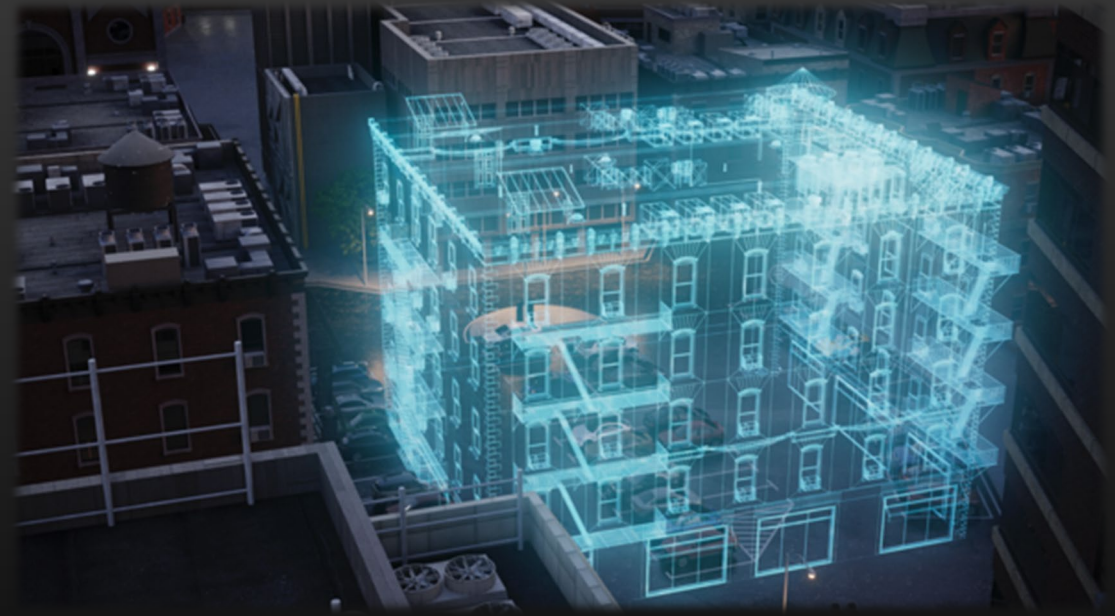
IAS Digital Twin is not just a three-dimensional representation, but a georeferenced digital ecosystem built from real data acquired through integrated multisensor surveys.



Smart and queryable model: Point Clouds, 3D Meshes, CAD, BIM and technical databases are integrated into an advanced digital environment designed for inspection analysis, monitoring and document management



Asset Management and predictive maintenance: The digital model enables the localization of critical issues, comparison of temporal evolutions, association of technical data and support for decision-making processes focused on proactive maintenance



From high-precision surveying to advanced asset management.

INSPECTIVE IMAGES

HIGH-DEFINITION VISUAL ACQUISITION FOR TECHNICAL ANALYSIS AND ASSET MANAGEMENT



Safe high-detail acquisition

Ultra-high-resolution RGB, thermal and multispectral imagery for close-range analysis of infrastructures, plants and complex structures, reducing risk exposure and operational interference.



Georeferenced and contextualized documentation

Each image is integrated into structured digital ecosystems, enabling precise localization, anomaly traceability and advanced long-term consultation.



Support for advanced inspections and AI

Inspective imagery represents the information foundation for crack detection, comparative analysis, periodic monitoring, technical reporting, Digital Twin platforms and Asset Management.



Technical imagery for informed decision-making

POINT CLOUD

MASSIVE REALITY ACQUISITION INTO ULTRA-HIGH-PRECISION DATA

IAS Point Clouds represent the advanced geometric foundation for the digitalization of infrastructures, architectures and complex assets, generating millions of georeferenced points with extremely high spatial accuracy.



Integrated multisensor acquisition

Laser Scanners, UAV photogrammetry, precision topography and GNSS systems converge into a single coherent and georeferenced three-dimensional database.



High-density geometric reconstruction

Millions of points accurately describe geometries, deformations, structural details and plant configurations, even in highly complex operational environments.



Millions of points. One single digital reality.

EVENT FILMING

AERIAL PRODUCTIONS AND VISUAL CONTENT FOR LIVE EVENTS AND PUBLIC SHOWS



Immersive filming for large-scale events

Video and photographic productions using drones, suspended systems and professional cameras for concerts, sports events, public shows and complex live formats.



Operational experience in high-attendance environments

Complete management of operations in regulated environments and in the presence of audiences, through authorization procedures, safety management and dedicated operational coordination.



Dynamic content for broadcast and communication

Creation of cinematic imagery, highlight reels, social media content and multicamera productions designed to enhance the atmosphere, scale and engagement of the event.



From live coverage to immersive storytelling: the impact of new perspectives

TIME LAPSE

TIME TRANSFORMED INTO A TOOL FOR ANALYSIS AND COMMUNICATION



Continuous monitoring of site evolution

Professional Time Lapse systems to document work progress, territorial transformations and complex processes through high-frequency automatic acquisitions.



Technical and institutional communication

Production of dynamic content for progress reports, stakeholders, marketing and project documentation, with an immediate visual synthesis of the entire operational cycle.



Connected ecosystems and remote access

Smart cameras with remote connectivity, cloud management and integration into digital workflows for consultation, archiving and advanced long-term analysis.



Time tells the story of the project: monitor time. Enhance the process.

CORPORATE VIDEO

VISUAL STORYTELLING FOR COMPANIES, INFRASTRUCTURES AND TERRITORIES



High-impact cinematic productions

We create professional video content using drones, cinema cameras and advanced filming systems to enhance assets, processes and corporate identity.



Technical and emotional storytelling

From industrial documentation to institutional content, we combine cinematic language and technical expertise to transform data, spaces and operational activities into strategic communication tools.



Operations in complex environments

Extensive experience in aerial and ground filming within regulated environments, infrastructures, industrial plants, events and international productions, with complete management of safety and authorizations.



From technology to visual storytelling: Capturing Reality, Creating Vision.

VIRTUAL TOUR

IMMERSIVE NAVIGATION TO EXPLORE SPACES, ASSETS AND INFRASTRUCTURES

Creation of navigable 360° Virtual Tours for buildings, plants, infrastructures, historical spaces and complex environments, remotely accessible via web and mobile devices.

Integration of intelligent data and content

Virtual environments can integrate information hotspots, technical documentation, multimedia, system tags, inspection reports, BIM connections, and Digital Twins.

VT: an operational and communication tool

IAS Virtual Tours support:

- remote inspections
- facility management
- technical training
- real estate development
- corporate and museum communications



Exploring reality everywhere: from physical space to digital experience

PROJECTS LINKS

Urban Landscapes Survey

<https://italdronservice.com/progetti/lanterna-di-genova>

<https://italdronservice.com/progetti/mercato-saraceno-rigenerazione-urbana-centro-storico>

Buildings - SCAN to BIM

<https://italdronservice.com/progetti/ex-fornace-bagnarola>

<https://italdronservice.com/progetti/granduca-mountain-wellness>

<https://italdronservice.com/progetti/iper-rozzano>

Plants – Survey / Inspection / 3D

<https://italdronservice.com/progetti/arcelor-mittal-ex-ilva-taranto>

<https://italdronservice.com/progetti/nestle-waters-acqua-sanpellegrino-madone>

Historical Buildings – SCAN to Digital Twin

<https://italdronservice.com/progetti/san-pietro>

<https://italdronservice.com/progetti/san-marino-le-3-torri-medioevali>

Some bites of AI

<https://italdronservice.com/progetti/torre-garisenda>

<https://italdronservice.com/progetti/yara-torre-prilling-fe>

Technical Inspections

<https://italdronservice.com/progetti/ispezioni-interno-cassoni-autostradali-con-rover>

<https://italdronservice.com/progetti/sorveglianza-con-droni>

Environmental SCAN and Surveyng

<https://italdronservice.com/progetti/parco-delta-del-po-argine-degli-angeli>

<https://italdronservice.com/progetti/brianzacque-progetto-lambrostream>

...something else!

<https://italdronservice.com/progetti/house-hunters-international>

<https://italdronservice.com/progetti/jova-beach-party-2022>



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