DRONE TECHNOLOGY

SYSTIA

Efficient asset management & inspection services



INCREASE YOUR OPERATIONAL EFFICIENCY WITH UNMANNED AIRCRAFT SYSTEMS (UAS)

UAS, commonly known as drones, are sensor rich devices capable of capturing quality data. SYSTRA's UAS program creates insightful data for the engineering, construction and transportation industry to increase operational efficiency throughout projects lifecycle.

issues before they become critical.



limited budgets and tight schedules, having access to quality and timely data is key to driving any project to successful execution and completion.

OUR TURNKEY DRONE SOLUTION IMPROVES YOUR RAILWAY INSPECTION

With better data comes better decisions

Our drone program delivers quality data to better inform project stakeholders. From construction monitoring to large infrastructure inspection use cases, drones are an efficient tool to monitor your assets safely and efficiently. SYSTRA will help you harness the power of drones and incorporate this cutting-edge technology on your project.

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ADVANTAGES



S costs cut

> Improved stakeholder communication

High-Quality Data



FLY & **CAPTURE DATA**

A drone mission is flown to capture location intelligence using various sensors.



MAP & **3D MODELS**

Drone data is uploaded to our cloud-hosted software to generate maps and 3D terrain models.



EXPLORE, **ANALYZE** & **SHARE**

Maps and models can be analyzed, annotated and shared through our secure cloud platform.

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ADVANTAGES

Reduced equipment downtime with proactive maintenance

Time saved and inspection costs cut

Improved stakeholder communication

High-Quality Data



- Safer work environment by not having to physically be on the ground.
- Sharing data using a universal platform allows for a single point of truth.



- Digital Twin (3D model) of assets for virtual inspection using a webbrowser interface.
- Inspection reports include high-resolution imagery, maps and videos.

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PROJECT REPORTING

- True survey grade mapping can be created at a fraction of the cost compared to conventional methods.
- Work progress reporting using real-time data.
- Providing valuable data that previously could not be obtained economically.
- Work site safety audits.
- Efficient large Job site planning with high-resolution maps.
- Improving investor engagement with impressive project visuals.

- Fewer labour hours to perform inspection tasks using Digital Twins.
- Real-time asset conditions and historical data allowing for trend forecasting and predictive maintenance.
- Easily shareable data with all project stakeholders, including maintenance personnel using cloud-based asset management tools.
- Safer working conditions by limiting the amount of exposure to safety hazards onsite.

SURVEYING

- Drones allow for a more detailed survey, due to denser point clouds.
- Surface, volume and linear measurements can be taken easily from a georeferenced point cloud using our web-based software.

Contact us



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