
OIL AND GAS DRONES



By Custom Wind Solution

The **use of drones** in the oil and gas industry has helped to **reduce inspection time**, cut **costs**, minimise **downtime** and identify problems early on.

Conduct visual and UT inspections swiftly and in compliance with **API/EEMUA** regulations.

Thanks to its unique design, the drone can easily access pipe racks, chimneys, tanks, flares and distillation columns, taking up to **30 measurements every 10 minutes**.

Additionally, the drone's advanced LiDAR capabilities enable precise localisation of POIs (points of interest) for future reference and comparison.



Developed in collaboration with Cygnus Instruments, the UT payload enables the drone to perform precise **UT spot measurements of tanks, pipelines, chimneys, distillation columns and much more.**

When combined with advanced LiDAR technology, the UT drone can precisely localise all measurements and display them in a 3D model of the asset, enabling historical comparisons, post-flight reviews, and sharing.



Safety

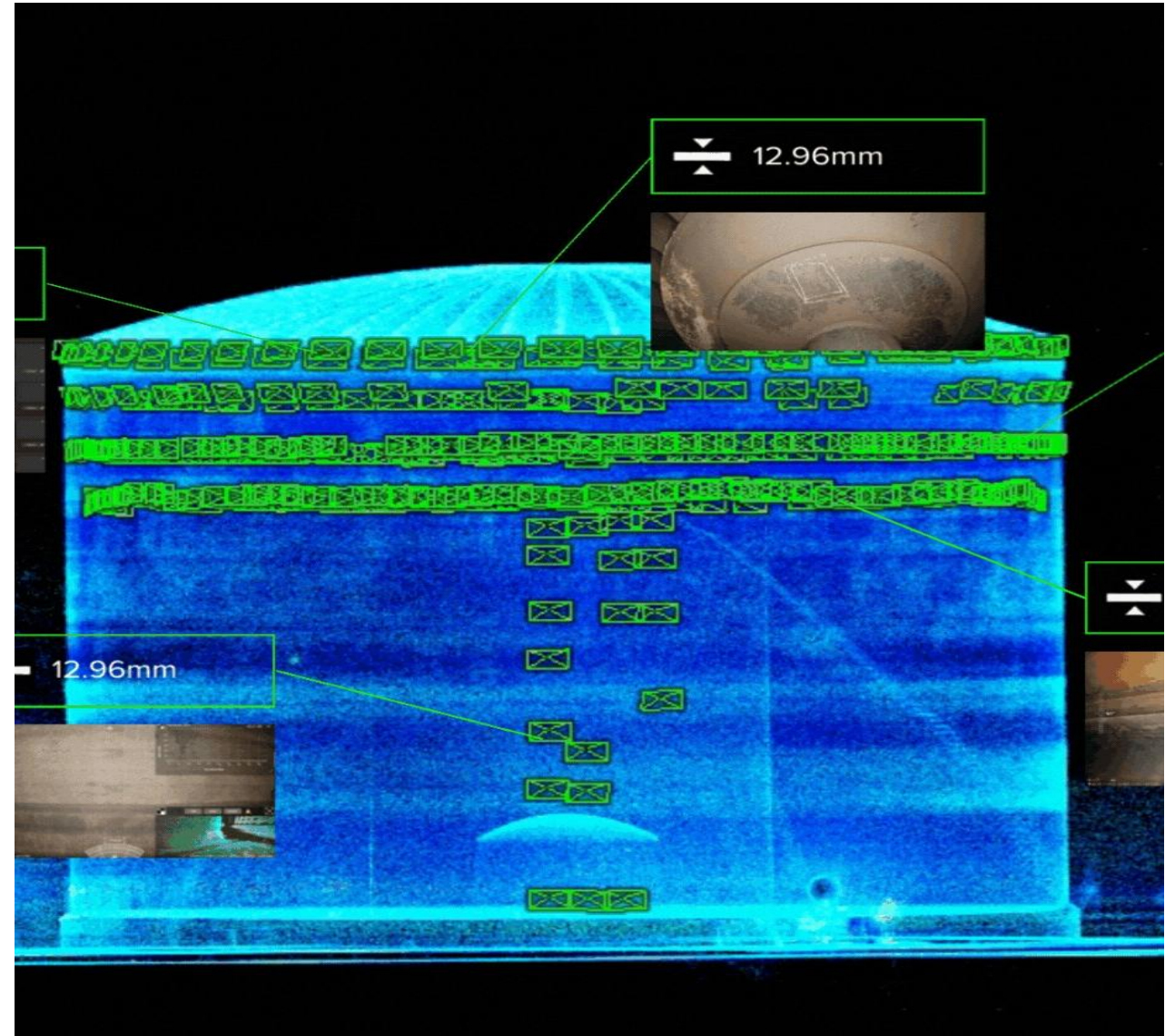
Avoid having personnel working at height or in confined spaces by performing remote drone inspections **safely from the ground**.

Efficiency

Inspect a tank in just **2 hours instead of 2 days**. Cut inspection time by up to 90% and **save \$30k** on tank inspections by avoiding scaffolding and rope access.

Data Quality

Collect precise UT spot measurements and close-up visuals to detect any corrosion or cracks and localize **all your data in a 3D model** of the asset.

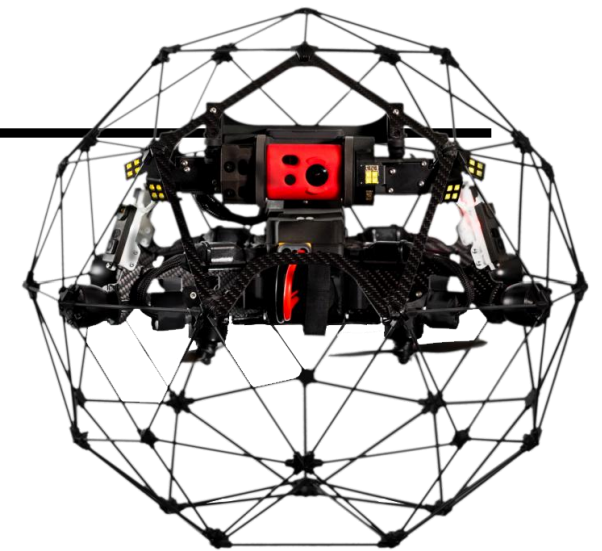
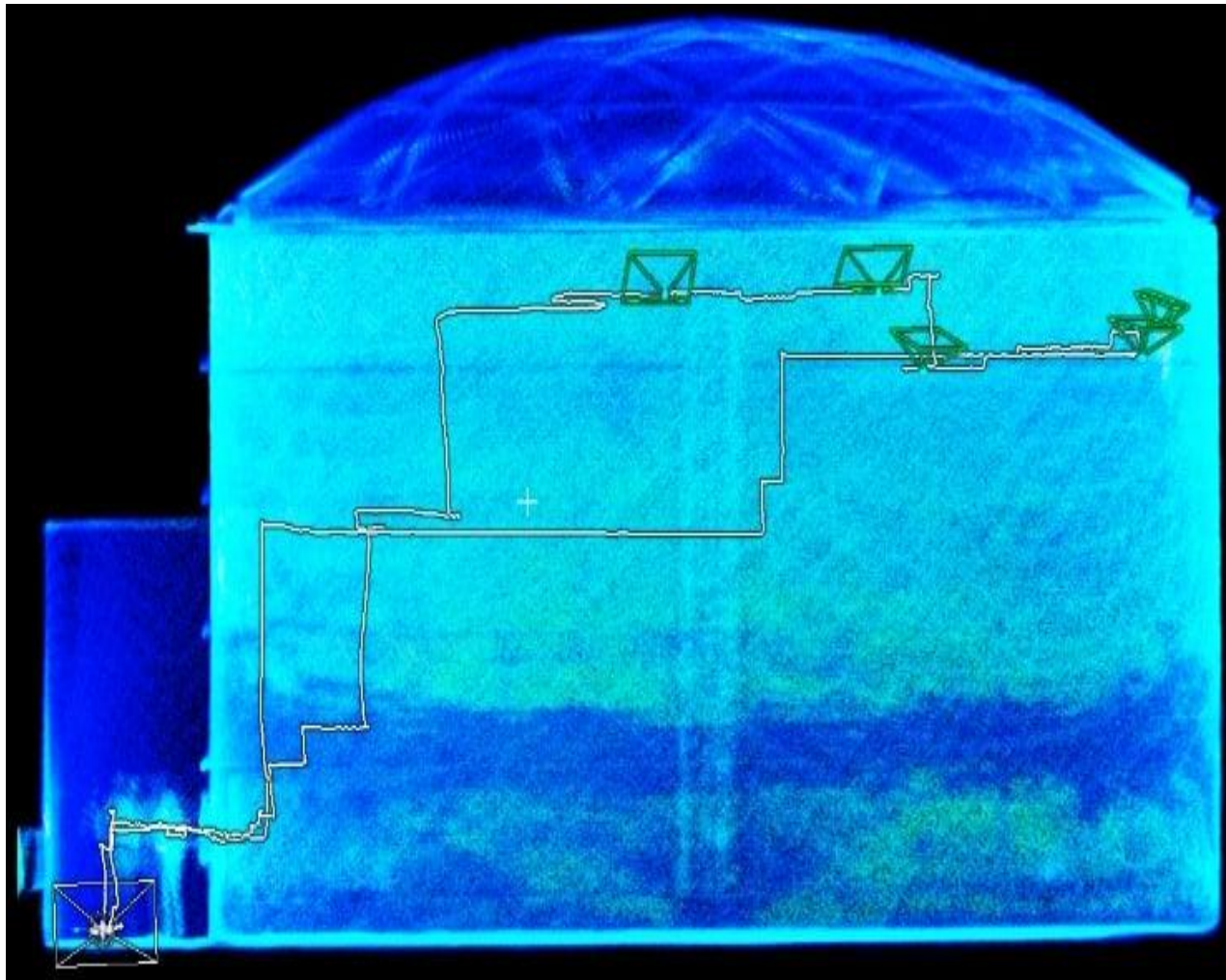


A photograph of an industrial refinery or chemical processing plant. The scene features several tall, cylindrical distillation columns of varying heights and diameters. These columns are interconnected by a dense network of pipes, some of which are insulated with grey material. Yellow safety railings and ladders are visible on the exterior of the columns and around the piping. The sky in the background is a pale blue with light, wispy clouds. The overall lighting suggests it might be early morning or late afternoon, with a soft glow on the equipment.

**COMPLY WITH API/EEMUA REGULATIONS AND COLLECT RELIABLE
VISUAL AND UT DATA FROM NUMEROUS APPLICATIONS**

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- Bulk storage tanks
 - Pipes & pipe racks
 - Chimneys & stacks
 - Distillation columns & vessels
 - Boilers & furnaces
 - Jetties
 - Cracker units & FCCs
 - Miscellaneous structures

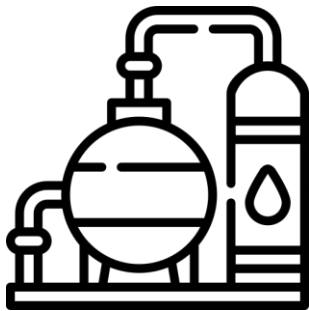
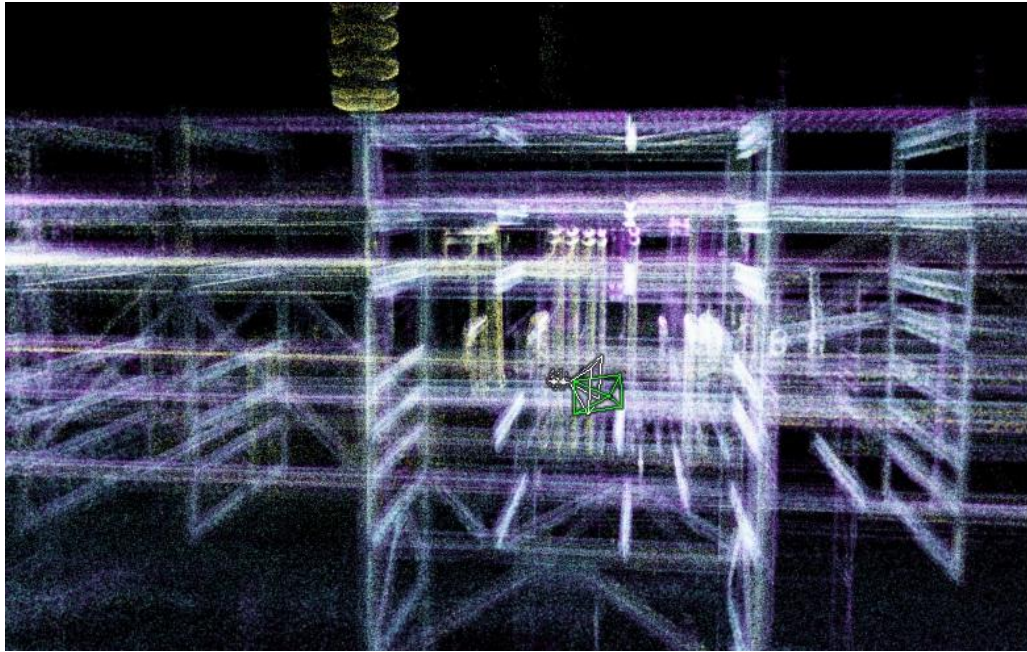




UT tank inspection

Thanks to the UT drone, we can now carry out visual and ultrasonic inspections of storage tanks in just a **few hours instead of weeks.**

Thanks to the drone's remote inspection capabilities, there is **no need for personnel to enter the equipment or work at height.**

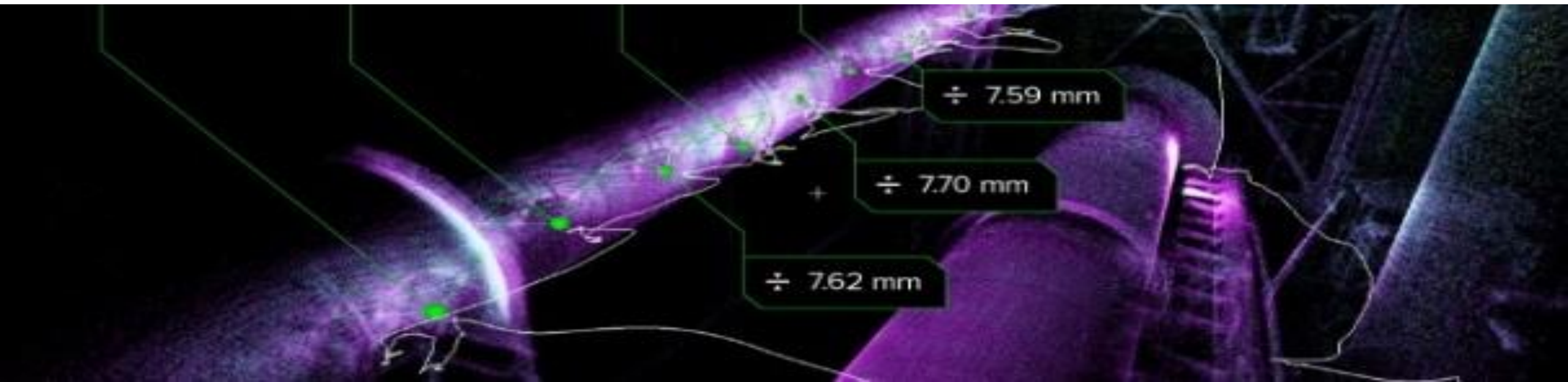


Speed: Few hours instead of few days

Cost: No scaffolding and rope access, less downtime

Accuracy: High quality visual and UT data and 100% coverage

Let's work together to ensure your inspections are
faster, safer and cheaper!



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