

MET INDUSTRIAL
MANUFACTURING, EQUIPMENT, TECHNOLOGY.

DIGITIZING THE INDUSTRY

INSPECTION SYSTEMS

DRONES

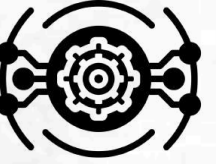
Industrial Digitalization, also known as Industry 4.0, integrates advanced digital technologies into industrial safety processes, asset management & maintenance, production, and business models, driven by data acquisition & analysis.s.



www.metindustrial.com



California-US, Ecuador, Peru

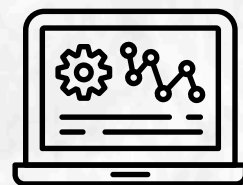


DRONE INSPECTIONS

Inspections with **Industrial Drones** are an innovative and efficient service that uses cutting-edge technology to perform detailed analyzes and evaluations of infrastructure, facilities and industrial assets. By using drones equipped with high-resolution systems and specialized sensors, comprehensive inspections can be carried out quickly, safely and accurately. This service offers companies a comprehensive view of the condition of their assets, allowing them to identify potential problems, make informed decisions, optimize maintenance and operations management.



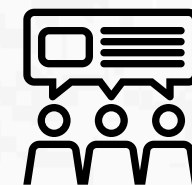
Inspections



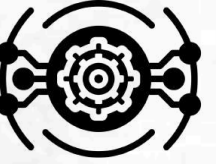
Planning



Ejecution



Feedback

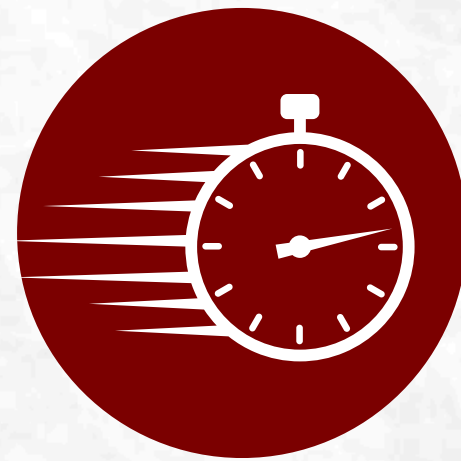


BENEFITS



SAFETY

Allow to prevent enter people in confined spaces.



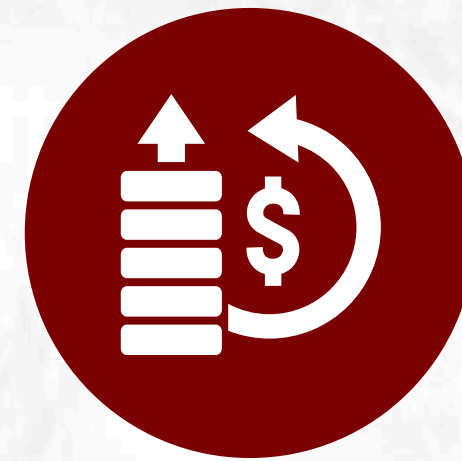
TIME

Reduce time, with data and visualization in live.
Increasing availability of equipment.



COST

Avoid cost of building scaffolding or structures to reach inaccessible places.



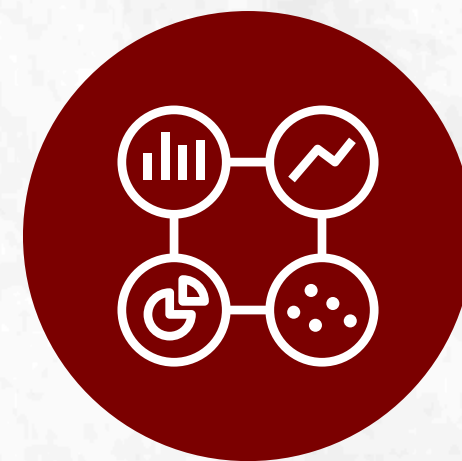
ROI

Return of investment for Inspections is reflected immediately with high quality metrics and deliverables to improve Making Decision Process.



RELIABILITY

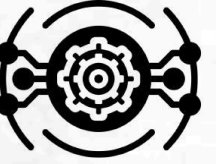
Increase the Reliability of your assets, equipment/systems, inspecting the most inaccessible places, to identify any potential failure.



MEASURABLE

Metrics can be generated immediately.



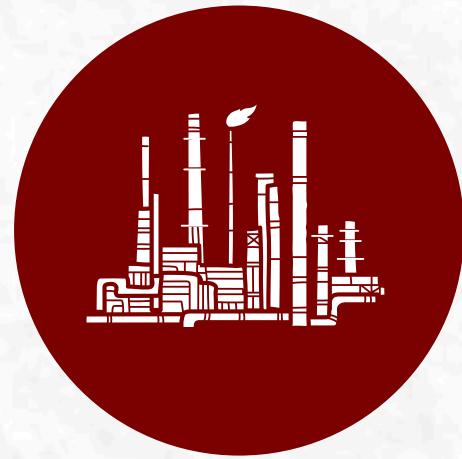


INDUSTRIES



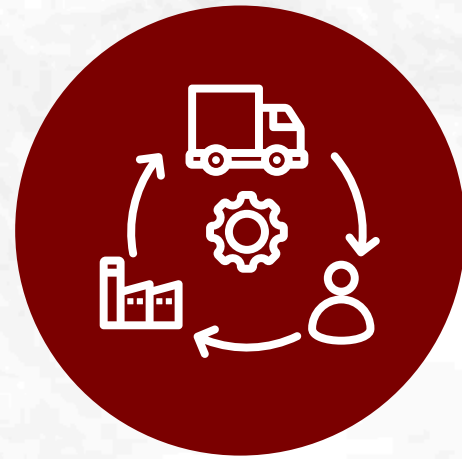
MINING

Ore Holes & Mines.
Cyclones.
Pre-Heater Towers.
Silos & Tanks.
Stock Piles.
Mines.
Kilns.
Clinker Cooler.
Work Ducts.
Bag Houses.



OIL & GAS

Pipes & Pipe Racks
Distillation Columns.
Jetties.
Bulk Storage Tanks.
Boilers & Furnaces.
Pressure Vessels.
Chimneys, Flares, Stacks.
Miscellaneous Structures.
Cracker & FCCU's.



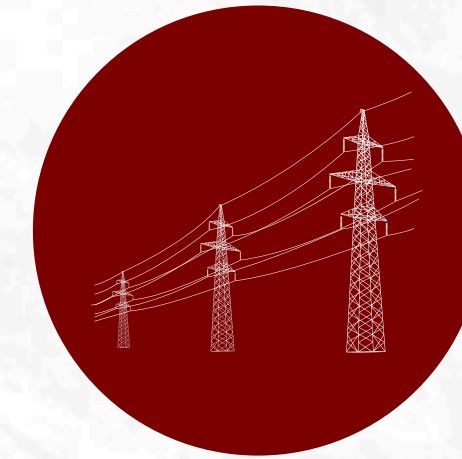
SUPPLY CHAIN & TRANSPORTATION

Rack Systems.
Conveyance.
Robotic Floors.
Compressor Rooms.
Daily Storage Tanks.



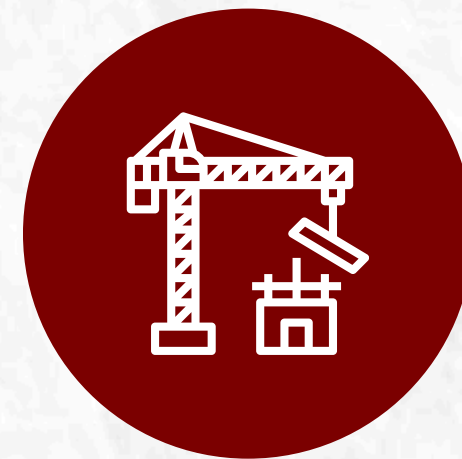
FOOD & BEVERAGES

Pipes & Pipe Racks.
Boilers.
Chimneys.
Incinerators.
Water Treatment Plants.
Silos & Tanks.
Process Optimization.



ENERGY

Wind Turbines.
Chimneys.
Transformers.
Hydro Power Plants.
Incinerators.
Structures.
Work.
Pen Stocks.
Solar Pannels.

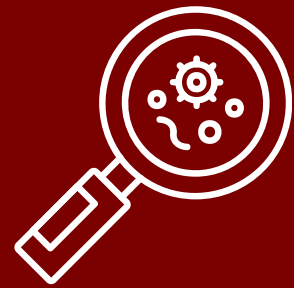
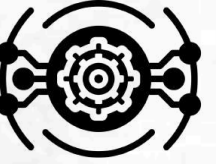
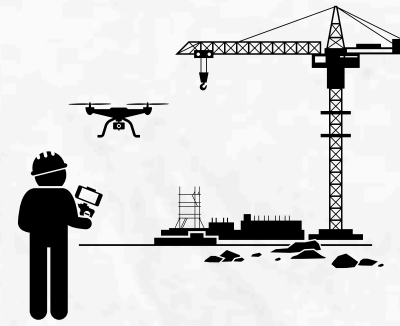


CONSTRUCTION ASSET MANAGEMENT

Project Management.
Roof Inspections.
Confined Spaces.
Elevators.
HVAC Systems.
Structures.



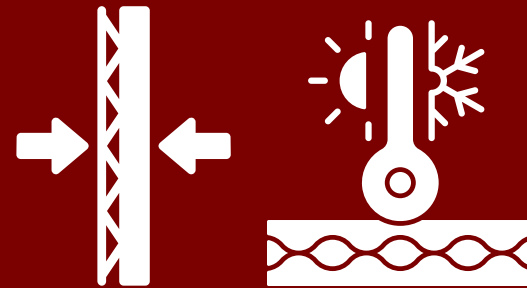
APPLICATIONS



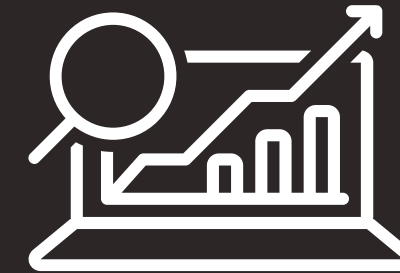
Visual Inspections



Confined & Inaccessible Spaces



UT & Thermographic



Data Analytics



Project & Asset Management.



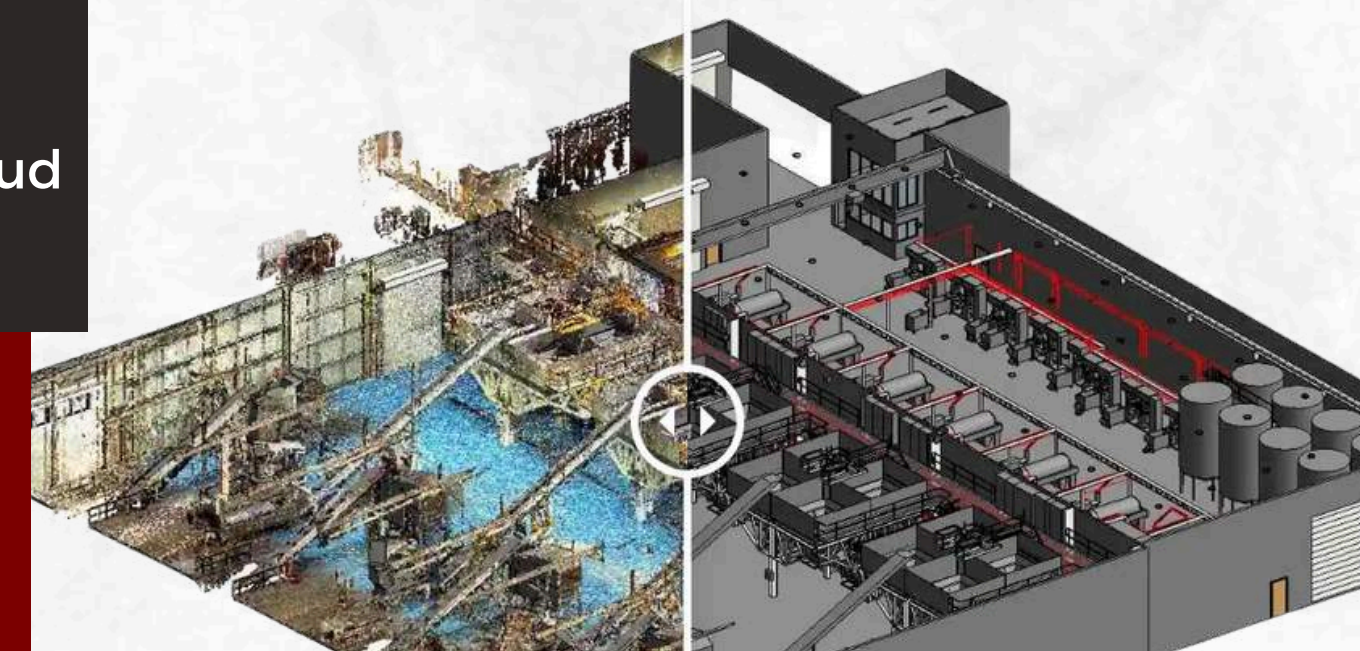
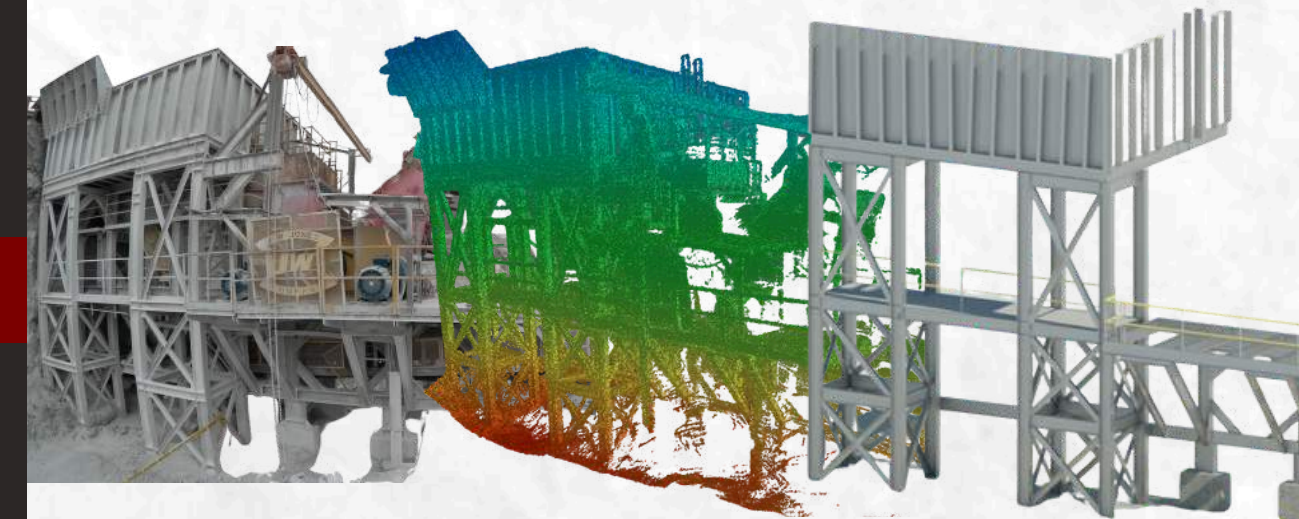
Reverse Engineering

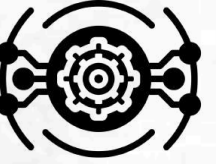


Predictive Analysis



Mapping, Point Cloud & 3D Modeling.





EQUIPMENT & TECHNOLOGY



Flyability - Elios 3 + Lidar



DJI - Phantom 4 + D-RTK



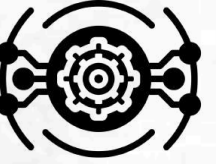
Teledyne SIRAS FLIR



Flyability - Elios 3
UT / Ultrasonic Test: **Thickness Analysis**

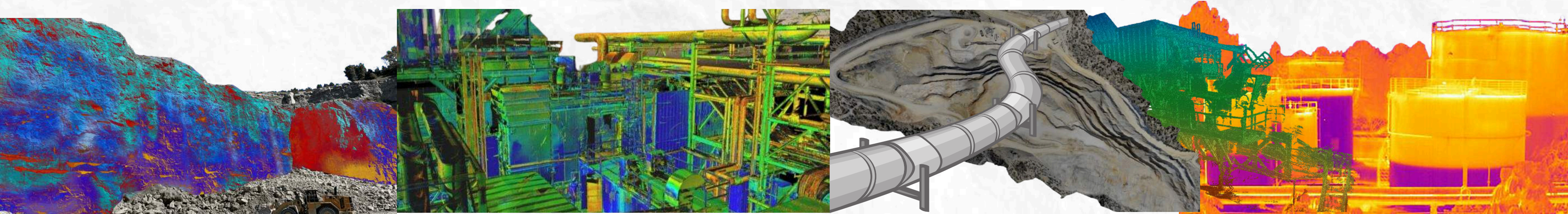


Flyability - Elios 3
Thermographic Camera: **-25°C - 1500°C**



SOFTWARE & DATA ANALYTICS

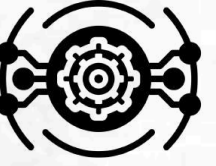
Software



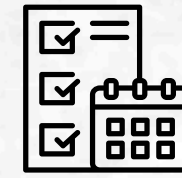
Data Analytics



Reports & Tools designed for each specific application, to each customer.



SOME PROJECTS



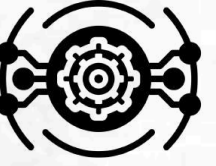
Visual Inspections - Ore Hole



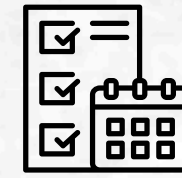
Visual Inspection + Point Cloud



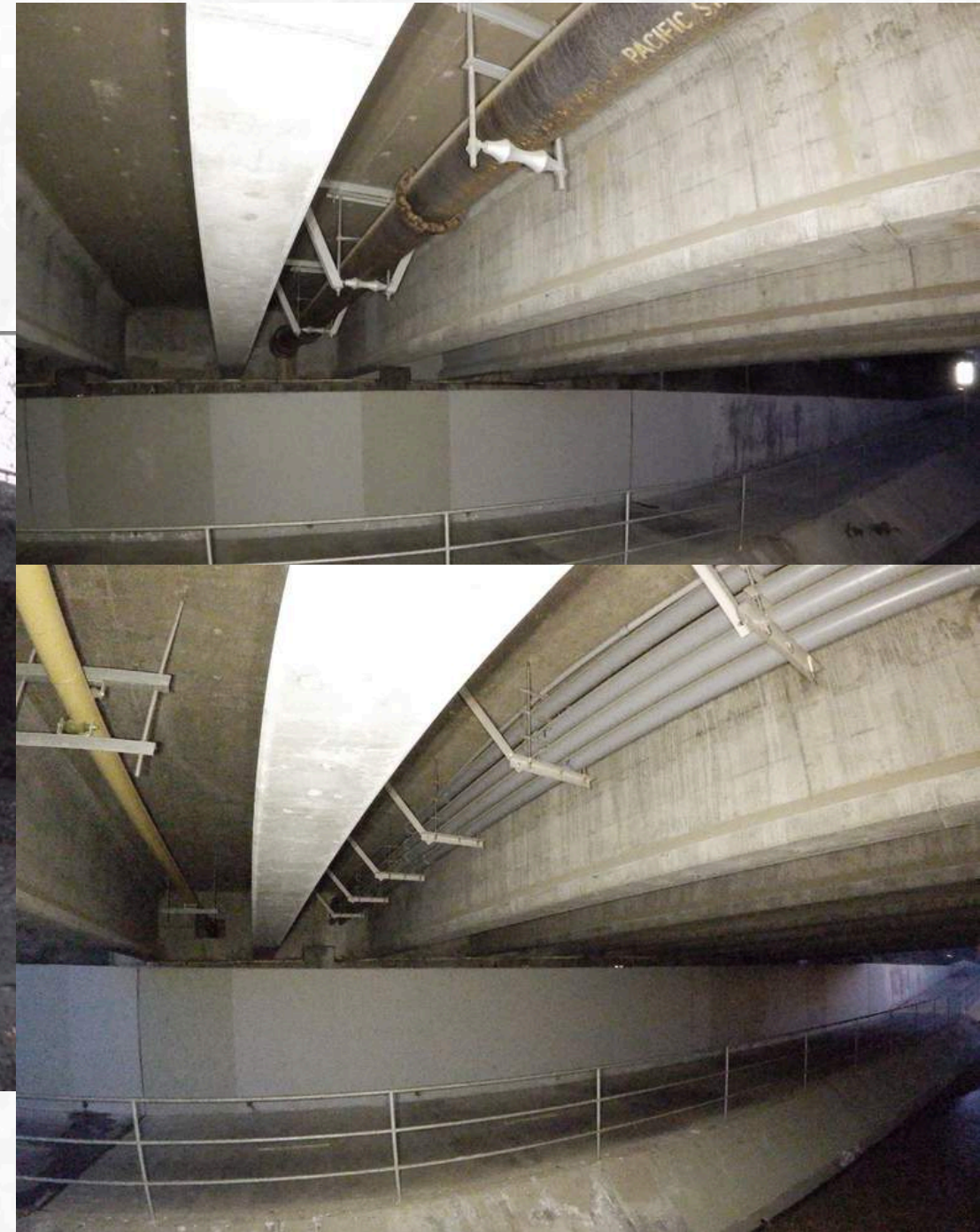
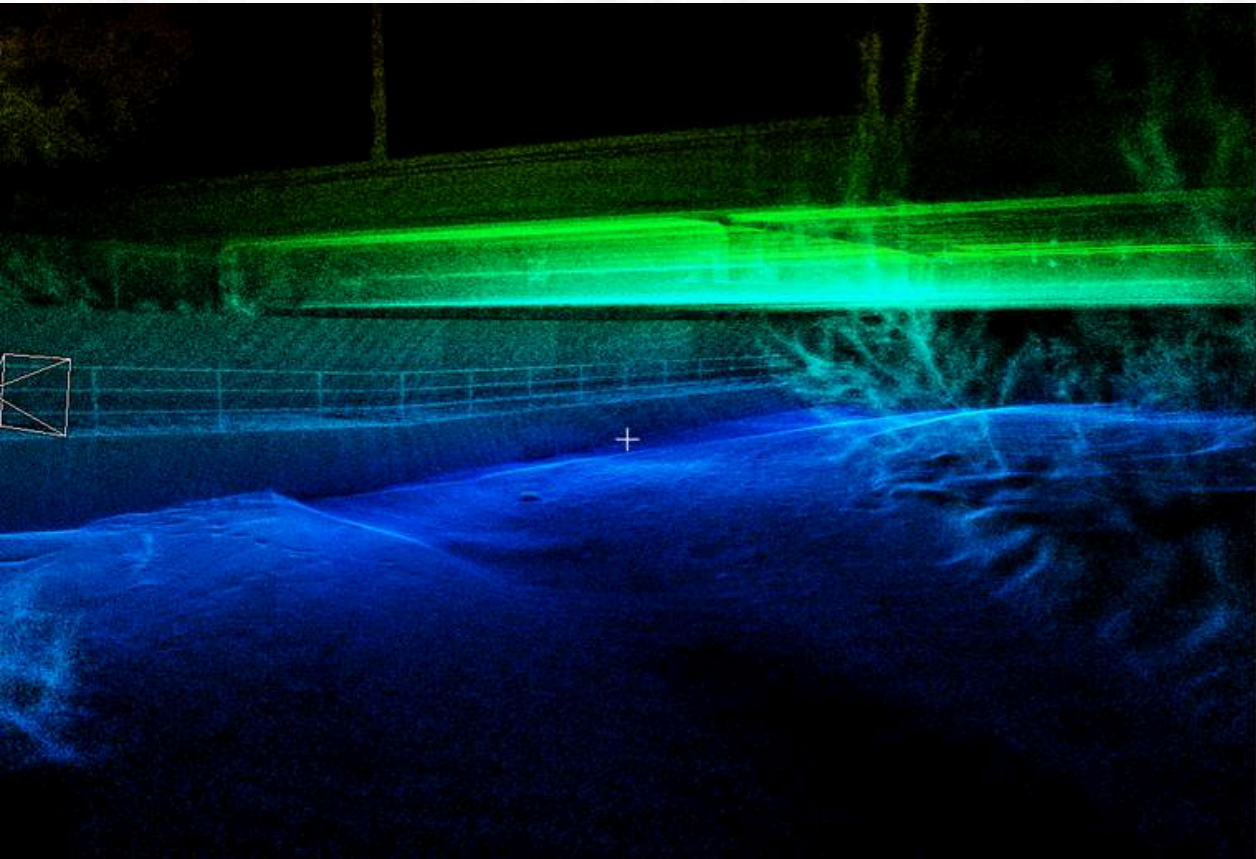
Modeling 3D.



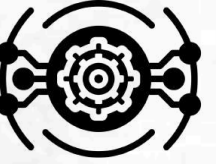
SOME PROJECTS



Visual Inspections - Bridge

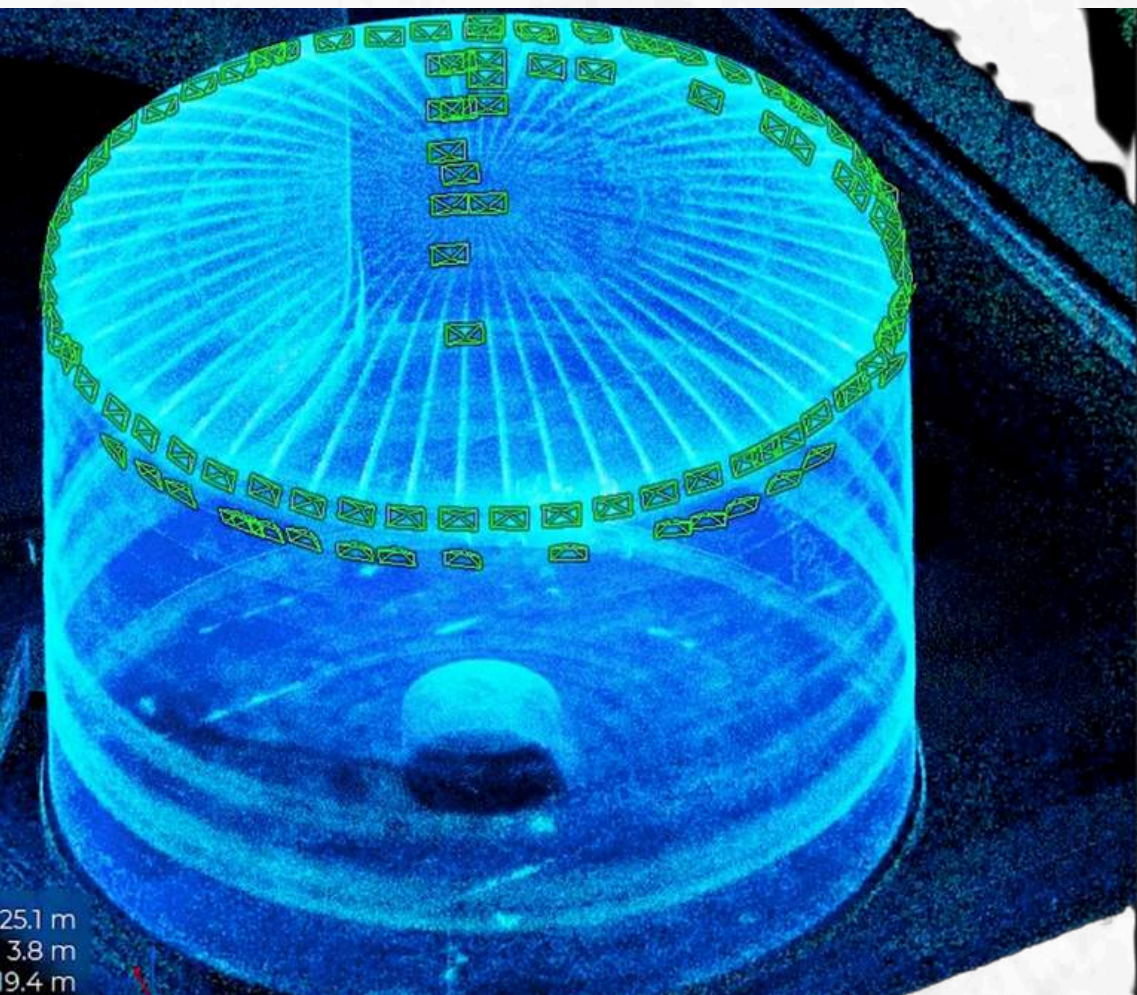


Visual Inspection + Point Cloud



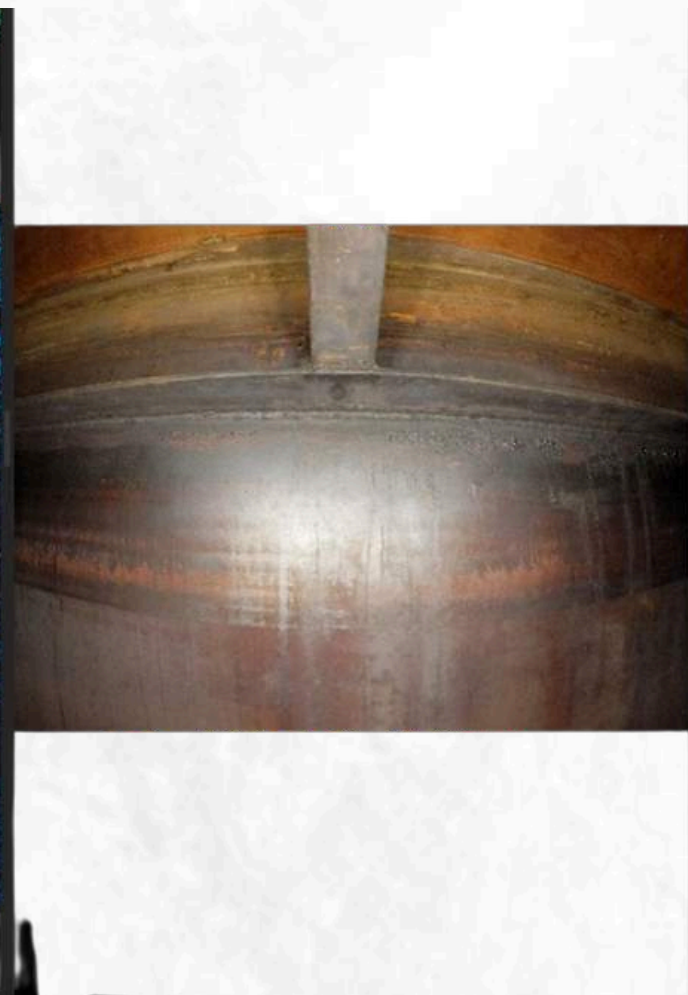
SOME PROJECTS

UT-Thickness Measurement - Tank

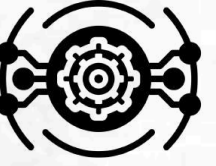


25.1 m
3.8 m
9.4 m

UT - Thickness Analysis / Tank

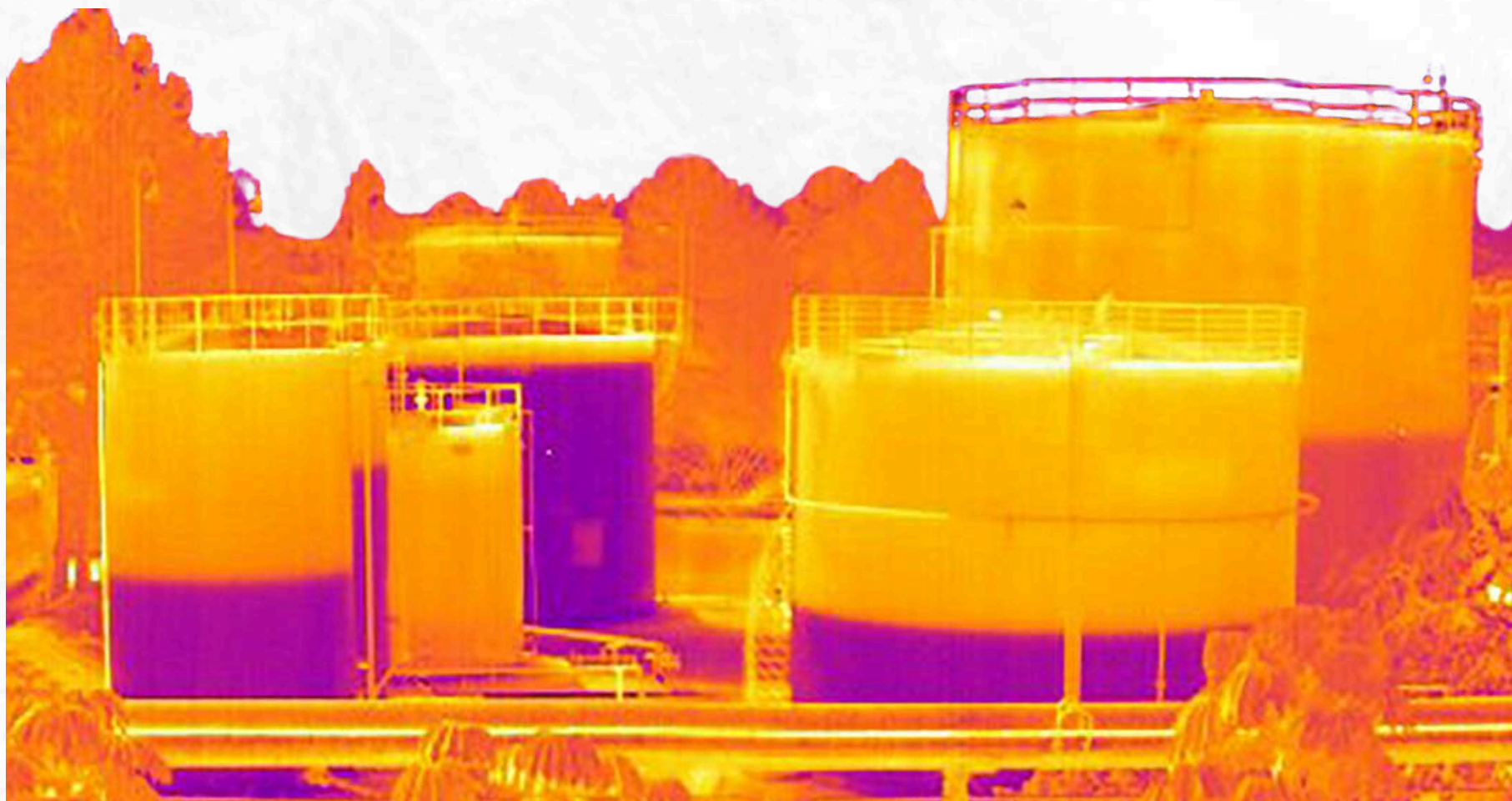


Sample of Thickness Measurement.

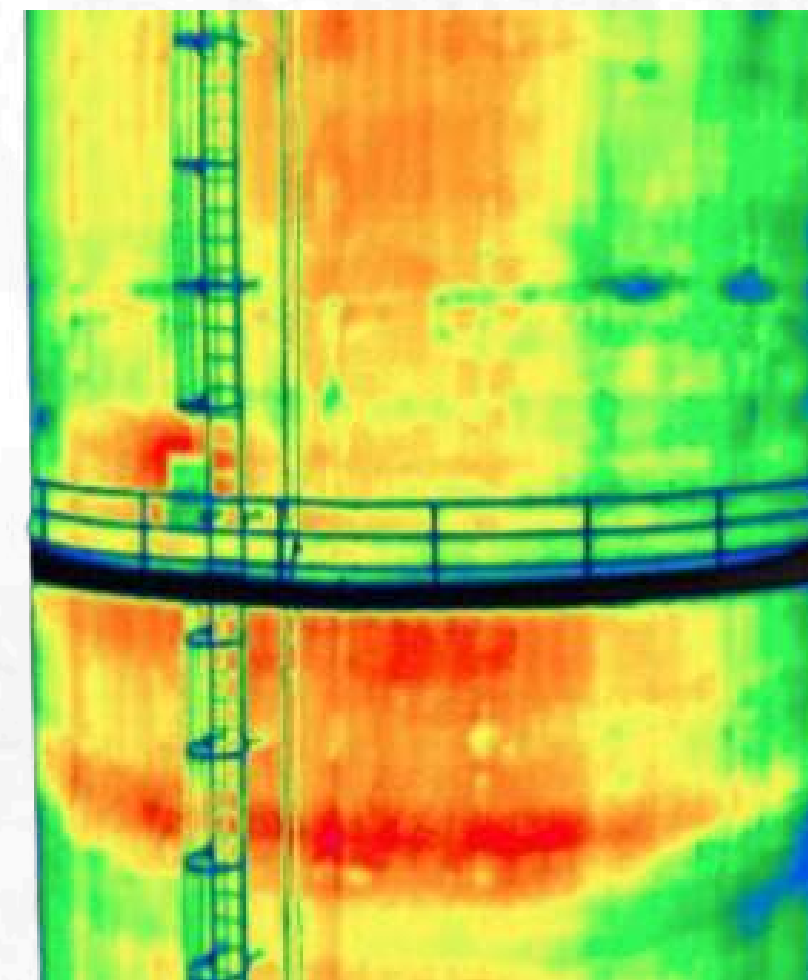


SOME PROJECTS

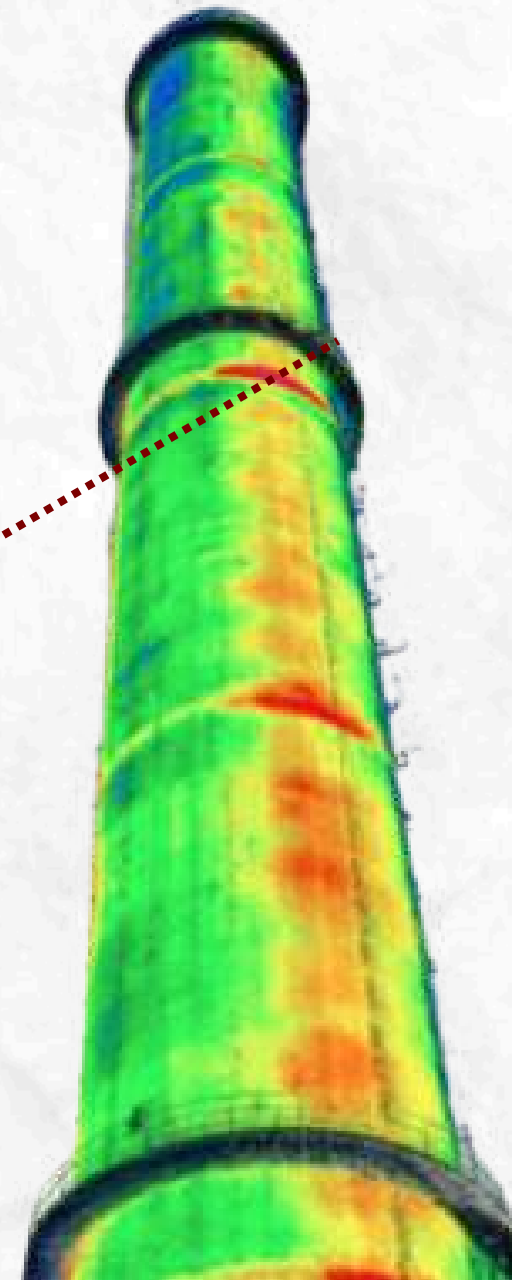
Thermographic Analysis

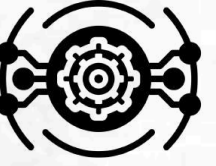


Daily Fuel Tanks

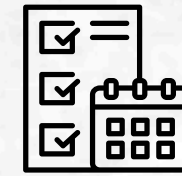


Chimney Temperatures Profile





SOME PROJECTS



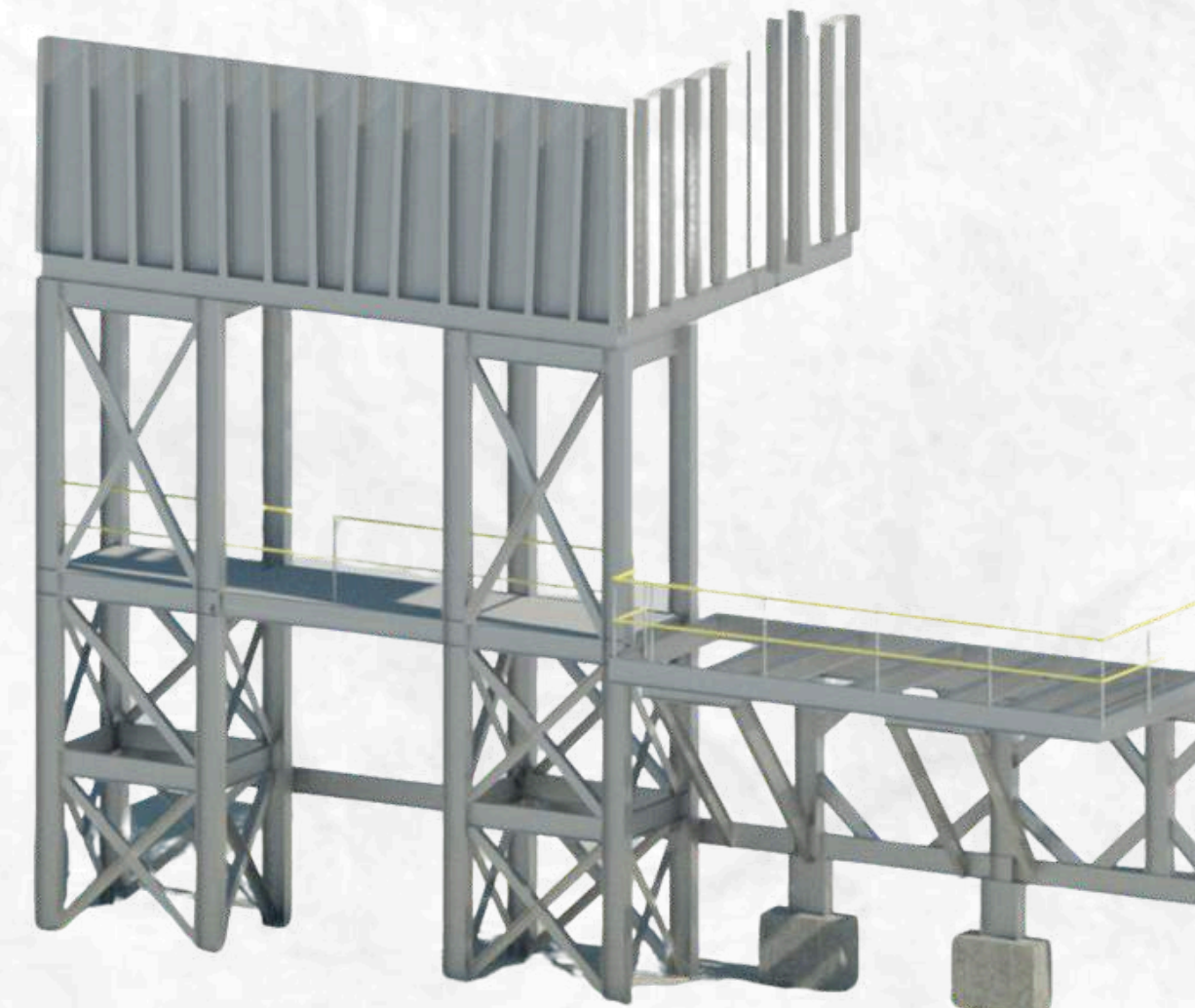
Reverse Engineering - Crusher



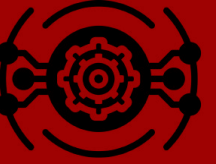
Photogrammetry



Point Cloud



3D Modeling



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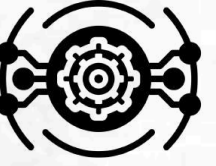


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