Drones in the Refining Industry: The Good, The Bad and The Ugly
Founded in 2016, based in Pisa - Italy

Drone Services Provider – Complete UAV solutions

ISO 9001:2015 Quality Certified Company

Major Partners
From Automation To Robotix

Owned by Alpha Process Control

Long Experience in Oil & Gas

Successfully executing Projects Worldwide
What is a Drone?

- Multirotor: From 4 to 8 engines
- Payload: Cameras & Gas Sensors
- Positioning Sensors: GPS
- VTOL: Vertical Take-off and Landing
- Fail Safe: Industrial-grade Safety Features
Drones Applications

- Process Industry
- Advertising
- Public Safety
- Energy
- Construction
- Agriculture
The Good, the Bad, and the Ugly

Of the Drones in the Refining Industry
The GOOD

Safety, Cost & Time

Minimising Worker Exposure in Dangerous Areas

Quick deployment and Ease of Use

Fast & Reliable data capture also in secluded spaces

Outdoor and Confined Spaces

Reduce Shutdown & Turnaround times
The PAST

Difficult working environment
Expensive Equipment
Long Execution
TODAY

Reduced Presence in Hazardous Environments

Lower cost & Faster Execution

Inspections with Plant in Operation
Case Study: confined spaces
The GOOD

Safety, Cost & Time

Minimising Worker Exposure in Dangerous Areas
Quick deployment and Ease of Use
Fast & Reliable data capture also in secluded spaces
Confined Spaces
Reduce Shutdown & Turnaround times
The BAD

Illegal Drones’ use

Disruption to operations
Property trespassing

Industrial Espionage
Acts of Terror
Are Drones a Threat?

Small model hobbyist fleet: from an estimated 1.1 million (2016) to 3.5 million + in 2021
Are you Safe?

Protected

UNPROTECTED

Protected
The solution

DRONE ALERT

DRONE: Phantom 3
SSID: PHANTOM3_0af963
MAC: 60:60:1f:0a:f9:63
RSSI: -78 dBm
RETURNING: 2x

Multiple Sensors

Integrated with your existing surveillance system

Easy and fast deployment

Drone Database continuously updated
The UGLY

False Myths:

- Are They Expensive Toys?
- Are They Difficult to use?
- Are They Dangerous?

Slow adoption speed of drone technology in the Oil & Gas industry
The GOOD
Safety, Cost & Time

The BAD
Illegal Drones’ Use

And The UGLY
Slow speed of adoption of drone technology in the Oil & Gas industry
Lead the CHANGE!

Are you using drones in your refinery?