

# DRONE INTELLIGENCE

Capabilities



Integrated Solution | IoT | Security | Surveillance

The ability of drones to provide aerial assessment of activities on the ground make it a much more effective tool than terrain surveillance – which is slower and more costly.



In the expanding world of unmanned aerial vehicles (UAV), security and surveillance continue to be of interest.

## AI and Drone Data

Drones can collect a tremendous amount of aerial data. Using our visualization dashboards, this data can be consolidated into actionable insights.

Using computer vision, drone data can be analyzed for facial recognition and object identification. This information can in turn be utilized for security purposes or to identify potential maintenance needs of an airfield, city infrastructure or field.



**Experienced Pilots:** We offer a fleet of drones that provide services for our client. Our drones are flown by experienced Department of Defense air specialists or commercial pilots with 20,000 or more hours flight time. We can also provide drone hardware upon request.



# OIL USE OF IOT AND DRONES

IoT devices and drones can greatly impact the efficiency associated with the industry by making management much easier and automating daily operations.

Drone surveillance offers an improved efficiency to managing daily activities and identifying potential problem areas. Drones can fly over field equipment and provide aerial data that is then analyzed and assessed using data visualization and analysis tools. The use of drones reduce danger to employees when searching for drilling spots or to do routine inspections.

Additionally, the use of IoT can monitor pipelines in real-time and provide real-time ship and fleet monitoring. Pipeline leakage is a major issue and is very costly both financially and to the environment. Using IoT coupled with visual drone inspections, components like pumps, pipes and filters can be monitored and maintenance provided prior to an issue arising.

Additionally, IoT and drones allow for more data collection, especially in locations that may difficult for human resources. This data can be fed into intelligent systems to generate predictive analytics that promote improved efficiency of financial resources and operations.

## DRONE SURVEILLANCE AND IOT BENEFIT THE OIL INDUSTRY



A dark blue background image featuring a drone in the upper right corner and a barbed wire fence running diagonally across the frame.

# SECURITY & SURVEILLANCE

Reduce the human risk and experience wider coverage with Drone Security and Surveillance.

Working closely with our partners, we have demonstrated experience at effectively using intelligent drones to support border security and large crowd monitoring.

In Southeast Asia, we are currently working with government authorities to provide **border security** for a country that required our services. Our drone security provides pinpointed insight regarding border activity and captures potential vulnerabilities that may weaken the border defenses.

## Crowd monitoring and surveillance

Our team also provided **crowd monitoring and surveillance** services for a large Caribbean festival. This festival attracts tens of thousands of individuals locally and from abroad. Our drone surveillance provides a real-time feed that allows aerial view of the crowd. This surveillance also analyzes the crowd and structures to identify any potential areas of threat or hazard. Additionally,, it allows our team the ability to quickly notify emergency medical personnel of any medical needs and provides precise locations of individuals requiring assistance.



# AIRPORT & ROAD INFRASTRUCTURE

**Pinpoint infrastructure issues with precision and using artificial intelligence. We actively provide services for the United States Federal Aviation Administration to support the monitoring of airport infrastructure.**

Our intelligent drones reduce the time required to inspect an airport infrastructure to 30 minutes (previously this took 72 hours – 3 days for a manual inspection). Our UAV's scan the area and feed the data to our intelligent analysis engine that pinpoints exact areas where maintenance is required. Previously, it took the FAA airports approximately 6 months to develop a detailed report regarding the infrastructure needs and related Pavement Condition Index information. Our intelligent, automated process requires on 72 hours to produce a more detailed version of the same report.



This service has also been implemented in select areas of the U.S. to monitor road conditions that allow state government to proactively monitor and manage highway infrastructure needs.



We also provide a real-time maintenance dashboard that provides insight regarding predicted maintenance needs based on PCI and other factors that are needed to keep the airfields up to code.

# OIL FIELDS

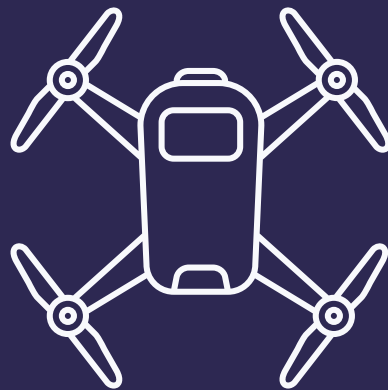
For select areas within the U.S. we apply artificial intelligence to capture drone data provided for oil fields and pipelines.



We have provided services to scan oil fields and pipelines.

The work done for oil fields in the U.S. includes drone surveillance of oil fields and pipelines to identify any structural damage and identify any areas of potential risk. This also includes monitoring infrastructure around the pipeline areas (such as powerlines, etc.) to denote anomalies and potential trespassing threats.

Trespassing threats are not always human in nature, our drones are able to distinguish between humans and animals and provide a live feed count of animals. In this way, our clients can be assured they are in full control of their oil field without requiring the need for a human to manually provide the same type of surveillance.





# ABOUT VIDOORI

VIDOORI, INC. IS A CONSULTING FIRM THAT PROVIDES HIGH QUALITY INFORMATION TECHNOLOGY SERVICES AND PRODUCTS TO SOLVE BUSINESS AND TECHNICAL PROBLEMS FOR COMMERCIAL AND INTERNATIONAL CLIENTS ALONG WITH THE U.S. FEDERAL GOVERNMENT.

The Vidoori approach utilizes an unyielding focus on achieving measurable results, reducing cost and introducing innovative solutions that use industry best practices.

For an initial assessment regarding how Vidoori integration and test solutions can support your organization, please contact a member of the Vidoori Software Development team. Send an email to **[BusinessDevelopment@vidoori.com](mailto:BusinessDevelopment@vidoori.com)**.



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