

Automated Oil Field Inspection

Workflow

- 01

Mission Planning
Create a mission in FlightHub 2 and execute mission with DJI Dock.
- 02

Data Collection
DJI Dock will send out drone to execute mission and return to Dock.
- 03

Documentation & Reporting
Once drone is safely back into Dock, data / media will transfer to FH2 or 3rd Party Software for user to access data. No SD cards required.

Benefits of Utilizing Drones

Scalability

- The pilot can remain at a safe distance while flying low to medium altitude missions. VS The environment ranges from hazardous, brush filled, or surrounded by a body of water.



Automation

- Repeatable missions that can cover large areas. VS Inspector would need to drive or walk near the pipeline which would take some time to locate a problem.
- Mission planning software used to fly at medium to low altitude with zoom capable RGB camera and a methane detector. VS Inspector would visually check the outside of the pipeline and search for any visible holes, damage, or corrosion.



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Tank Inspection



Benefits of Utilizing Drones

Efficiency

- 25 Tanks / Hour (Drones) vs 10 Tanks / Day (Inspector)
- Low altitude flights consisting of RGB cameras, thermal cameras, and/or LIDAR. VS Inspector walks around and climbs the tank to inspect the roof for any visible holes openings in the seal.

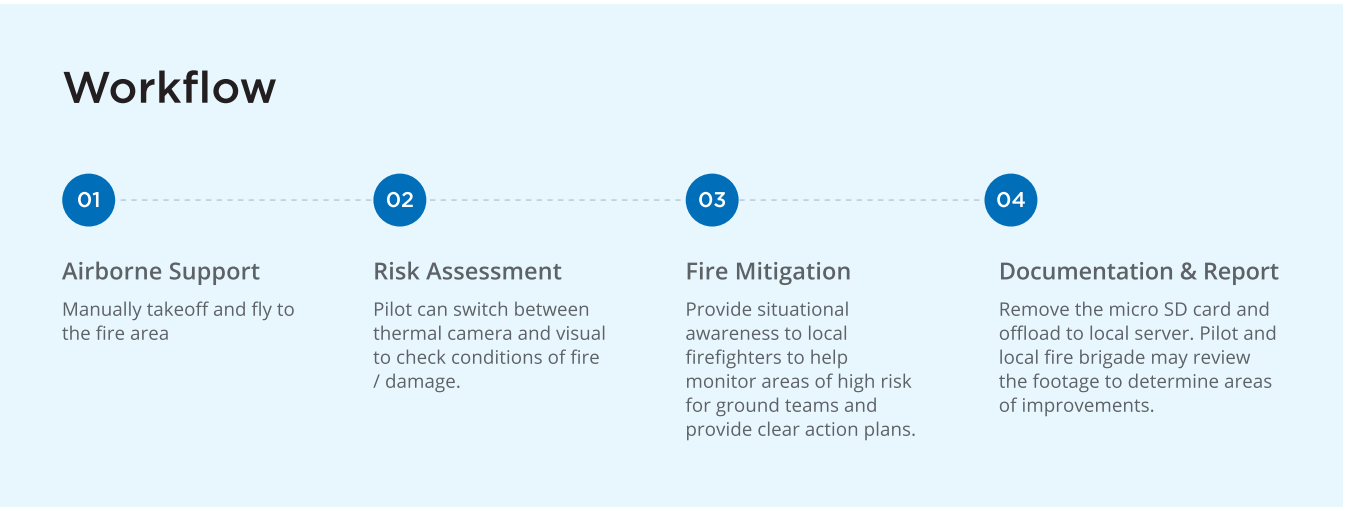


Safe

- The pilot can remain at a safe distance while flying low altitude missions. VS There are physical barriers that the inspector must enter in order to complete the inspection.



Firefighting



Benefits of Utilizing Drones

Safety

- Pilot can monitor at a safe distance VS Local Fire brigade may be within the danger zone in order to monitor the situation.
- The pilot can keep the drone as close as possible without risking human life. VS Due to extreme temperatures, nearby equipment may be compromised which can worsen the situation.

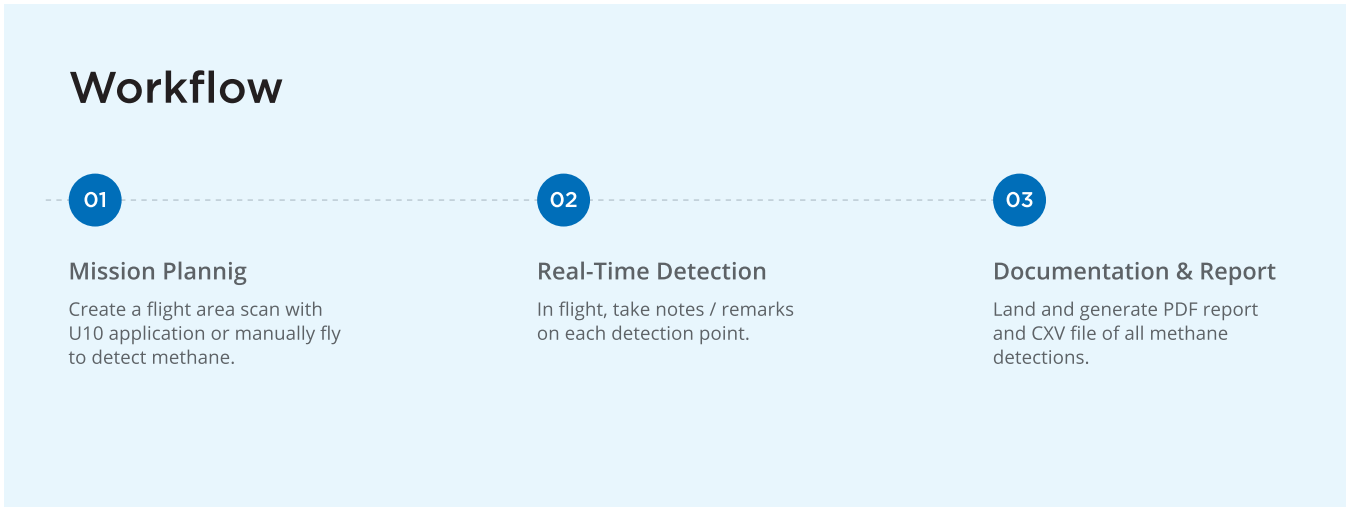


Situational Awareness

- Low altitude flights consisting of RGB and thermal cameras. VS Firefighters may need to rely on local support to help monitor the overall situation.



Leak Detection



Benefits of Utilizing Drones

Safety

- The pilot can remain at a safe distance while flying low to medium altitude missions. VS The environment ranges from hazardous, brush filled, or surrounded by a body of water.



Data Accuracy

- Repeatable missions that can cover large areas. VS Inspector would need to drive or walk near the pipeline which would take some time to locate a problem.
- Mission planning software used to fly at medium to low altitude with zoom capable RGB camera and a methane detector. VS Inspector would visually check the outside of the pipeline and search for any visible holes, damage, or corrosion.

