octane
by flytbase



Build the operating model for your enterprise drone program

POWERING 20+ DRONE PROGRAMS
ACROSS 14+ COUNTRIES

Shell · OQGN · Aerotec · Bronto · IBN FIRNAS · CAN

Why O&G companies are scaling autonomous drone ops

Crew availability, scaffolding and travel limit how often assets get checked. Autonomous drones bring data-capture costs down by orders of magnitude, making routine checks viable across four kinds of work:



OPERATOR ROUNDS

Send crews only where equipment needs attention



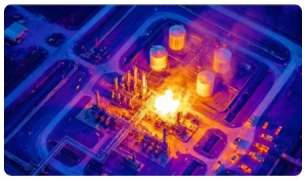
ASSET INSPECTION

Check tank roofs and flare stacks without climbing



SITE SECURITY

Verify perimeter alerts before anyone responds



INCIDENT RESPONSE

See fires, spills and storm damage before crews go in

How Shell is bringing safer inspections and faster response offshore

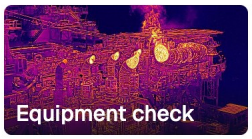
Offshore inspections used to mean flying crews out. Now Shell runs docked drones on its Mars platform with Octane (FlytBase), inspecting from shore and assessing hurricane damage sooner.





$50M

projected savings over three years from restarting production a day sooner after major storms



8 hrs

of personnel time saved for every hour of drone work



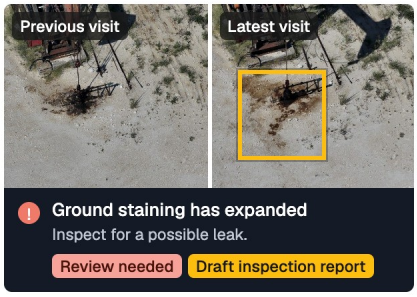
"The aircraft for us has been very much the easy part. The hard part is the operating model that goes around the entire program."

Ross Doak · Offshore Robotics Program Manager, Shell

Meet Octane. The platform to build your enterprise drone program.

	WITHOUT AN OPERATING MODEL	WITH OCTANE
1 Data strategy, integrations & AI	Hundreds of images per flight, reviewed manually, with findings that rarely reach the teams who act.	**Inspection reports ready minutes after every flight** AI drafts the report following your SOPs and creates work orders for the teams who need to act.
2 New use case onboarding	Each new use case for the same drone, like security patrols or leak checks, takes months to set up.	**A new use case running in under a week** FDEs set it up with your team, so one drone pays back across more use cases.
3 Data security & IT requirements	Every new software vendor faces a long IT security review.	**Faster sign-off from your IT team** Certifications are in place and security templates are ready, so your IT review moves much faster.
4 Scale across regions	Every new country means hiring pilots, setting up remote operations and securing approvals from scratch, with unpredictable costs and timelines.	**Expand to new countries without building local teams** In each country, a local partner from our network of 40+ brings the pilots, remote operations and regulatory approvals.

Octane at work across the value chain



Octane compares drone images from two visits and flags a possible oil leak near the wellhead.

UPSTREAM

Wellpads and offshore facilities

- Wellpad rounds and leak checks
- Flare and under-deck inspection
- Post-storm damage assessment

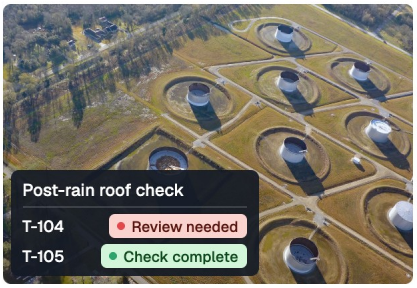


A vibration alarm triggers a drone response. The drone view reveals excavation near the pipeline.

MIDSTREAM

Pipelines and right-of-way

- Right-of-way patrols
- Leak and encroachment checks
- Compressor station inspections



A post-rain roof check flags tanks that need attention.

DOWNSTREAM

Refineries and terminals

- Tank roof and seal inspection
- Flare stack checks
- Perimeter security and incident response

Plan your drone program with Octane

Book a program design workshop with our experts.

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How Shell is bringing safer inspections and faster response offshore

Every offshore inspection needs a crew flown out, and after a hurricane, production cannot restart until that inspection is done. With docked drones on the Mars platform, 130 miles offshore, Shell now inspects from shore and assesses hurricane damage sooner:



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8 hrs
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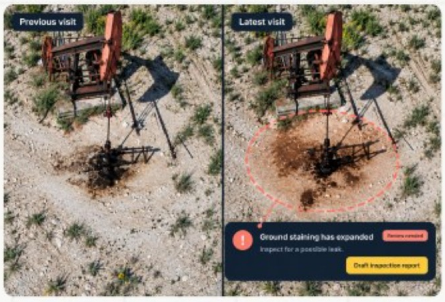

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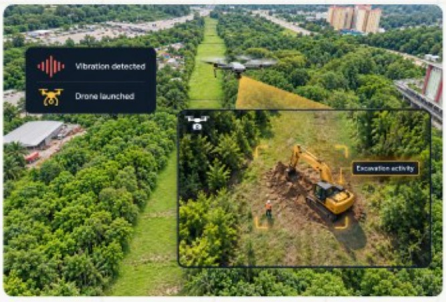

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