3 Truths Oil & Gas Operational Leaders Need to Act on to Build Resilience



From reactive firefighting to resilient oil & gas operations

The most resilient oil and gas operations aren't defined by the assets they run or the markets they operate in. They're defined by how clearly, they see their operations, how consistently they act on what they know, and how quickly they turn signals into decisions, especially in the current era of volatility and AI.

Three truths separate the operators building real resilience from those still running on instinct.

3 Operational Truths

Truth 01

Your data isn't the problem. Your blind spots are.

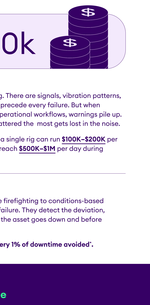
Planned-to-unplanned maintenance ratio

Industry Average	55:45
World Class	80:20

The Reality

Energy operations generate millions of data signals every day - from SCADA systems, historians, DCS, sensors, and enterprise applications. But when that data sits in silos, it doesn't inform decisions. It creates noise.

- **The Result:** Asset degradation goes undetected, failures look random, and downtime that was entirely preventable gets written off as bad luck.



What Best-in-Class Looks Like

The solution isn't less data, it's a unified operational picture, one shared view of asset and process health across every site, every shift, that the whole organization can act on. On critical rotating equipment, leaders push mean time between failures to **10,000+ hours,** while reactive shops live with frequent, costly stoppages.

The gap isn't data.
It's the visibility you can act on.

Truth 02

Most failures aren't surprises. They're missed signals.

Unplanned Downtime Cost Per Hour



$250-$500k

The Reality

Equipment almost never fails without warning. There are signals, vibration patterns, temperature deviations, flow anomalies that precede every failure. But when anomaly surveillance is disconnected from operational workflows, warnings pile up. Teams tune them out. And, the signal that mattered the most gets lost in the noise.

For offshore drilling, non-productive time on a single rig can run **$100K–$200K** per day at typical deepwater spread rates, and reach **$500K–$1M** per day during drill-to-completion.

What Best-in-Class Looks Like

Leading operators have moved from reactive firefighting to conditions-based predictive maintenance. They don't wait for failure. They detect the deviation, diagnose the root cause, and act - all before the asset goes down and before production is deferred.

- **$12.8M recovered per year, per site, for every 1% of downtime avoided*.**

*Baseline 1% internal modelling, Tier 1 offshore operator benchmark

The difference isn't luck.
It's early warning intelligence that directly informs action.

Truth 03

Operational knowledge walks out of the door with every shift change.

Average Industry Wrench Time

25-35%

Wrench Time

The Reality

When knowledge lives in people's heads, handovers are verbal or written down, and every team responds to the same problem differently the same failures keep recurring. Accountability is unclear. Performance becomes a function of who happens to be on rotation, not how well the operation is run.

And the consequences compound. Inconsistent shift logs mean lost context. Lost context means delayed action. Delayed action means repeated losses on the same assets, the same process units, the same failures.

What Best-in-Class Looks Like

- Every shift starts with full context and a clean handover
- Every decision is logged and traceable
- Issues are handled consistently - regardless of who's on shift
- Wrench time moves from **25–35%** to **45–55%+** - same team, better system

Operational resilience isn't built in control rooms.
It's built in the handover.

Three truths.
One platform built to solve all of them.

IFS.ai Operational Intelligence

We have 25+ years of oil & gas heritage across upstream, midstream, and downstream - and are the only platform connecting investment planning, asset management, and real-time operational intelligence end to end. IFS has been a quiet constant behind some of the world's most demanding energy operations.

IFS.ai Operational Intelligence is a unified, real-time operations platform purpose-built for asset-intensive industries. It connects OT and IT data from historians, SCADA/DCS, sensors, and enterprise applications- applies anomaly detection and performance calculations and delivers a single, actionable view of operational health across every site and every shift.

It sits between your OT systems and enterprise applications, closing the gap between detection and action - without replacing the systems already in place.

Talk to an IFS oil & gas specialist today ⟶

What IFS.ai Operational Intelligence delivers against each truth

Truth 01: **Asset Visibility**

Sentinel AI detects equipment anomalies early and connects them directly to condition-based maintenance workflows in IFS Cloud EAM = before failure occurs

Truth 02: **Unified Data**

Connects fragmented OT and IT data into one shared operational truth - replacing alarm overload with real-time, comparable performance visibility across every site

Truth 03: **Shift Discipline**

Digital Shift Log standardizes every handover, so shifts start with full context, decisions are traceable, and recurring issues stop falling through the cracks

Are you operating around these three truths?

Ready to see your numbers move?
Book a demo today ⟶

IFS

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Sources and References

All external stats and benchmarks cited in this infographic, with sources. Internal IFS figures are flagged for confirmation before publication.

All sources are embedded within this infographic and are accurate as of 2 June 2026.