



Executive Guide

Resilient oil and gas operations

Building safer, smarter and more profitable operations with Industrial AI

The oil and gas industry is changing

Oil and gas organisations are operating in one of the most demanding environments they have ever faced.

The industry continues to balance rising energy demand with increasing pressure to improve safety, reduce emissions, maximise production and extend the life of critical assets. At the same time, organisations must manage ageing infrastructure, fluctuating commodity prices, skilled labour shortages and increasingly complex regulatory requirements.

Success is no longer determined solely by production volumes.

The organisations leading the industry are using connected digital technologies to improve operational resilience, make faster decisions and optimise every stage of the asset lifecycle.

Industrial AI is accelerating this transformation by helping operators predict failures before they happen, optimise maintenance programmes, improve workforce productivity and make better investment decisions. However, AI alone is not enough.



The organisations achieving the greatest results have first built a connected digital foundation where assets, projects, finance, operations and people all work together through a single enterprise platform.

What does operational resilience mean?

Resilience is the ability to continue operating safely, efficiently and profitably, regardless of operational challenges.

For oil and gas organisations, this means having the ability to:

- Maximise production while reducing downtime.
- Improve asset reliability.
- Extend equipment life.
- Optimise maintenance resources.
- Improve workforce productivity.
- Reduce operational risk.
- Meet regulatory requirements.
- Support long-term sustainability objectives.

Connected enterprise software and Industrial AI provide the visibility needed to make faster, better-informed decisions across the entire organisation.

The five priorities for resilient oil and gas operations



Maximise asset performance

Assets are the foundation of every oil and gas operation.

Whether operating offshore platforms, drilling rigs, pipelines, LNG facilities or refineries, equipment reliability directly affects production, profitability and safety.

Traditional reactive maintenance often results in higher operating costs and unexpected downtime.

Modern Enterprise Asset Management enables organisations to:

- Monitor asset health in real time.
- Predict failures before they occur.
- Optimise maintenance schedules.
- Improve spare parts planning.
- Extend asset life.
- Increase equipment availability.

Rather than reacting to failures, maintenance becomes proactive, reducing operational disruption while increasing production capacity.



Connect every part of the business

Many oil and gas organisations still operate with disconnected systems across operations, finance, maintenance and projects.

This creates duplicate information, manual reporting and slower decision-making.

A connected enterprise platform brings together:

- Asset management.
- Enterprise Resource Planning (ERP).
- Maintenance.
- Finance.
- Supply chain.
- Procurement.
- Capital projects.
- Workforce management.
- Field service operations.

With one trusted source of operational and financial information, teams gain complete visibility across upstream, midstream and downstream operations.



Use Industrial AI to improve maintenance

Maintenance strategies are evolving rapidly.

Rather than servicing equipment purely on fixed schedules, organisations are increasingly using Industrial AI to understand equipment condition and operational risk.

Industrial AI analyses thousands of operational data points to:

- Predict equipment failures.
- Prioritise maintenance activities.
- Recommend corrective actions.
- Optimise workforce scheduling.
- Improve spare parts availability.
- Support better operational decisions.

This enables maintenance teams to spend more time preventing failures and less time responding to emergencies.



Improve operational decision-making

Oil and gas operations generate vast amounts of operational data every day. Without connected systems, valuable insights remain hidden across multiple applications and spreadsheets.

Connected operations provide real-time visibility into:

- Production performance.
- Maintenance activities.
- Operational costs.
- Workforce utilisation.
- Supply chain performance.
- Financial performance.
- Asset health.

When operational and financial information is connected, leaders can respond faster to changing conditions and make better strategic decisions.



Prepare for the future of energy

Oil and gas companies are balancing today's operational priorities with tomorrow's energy transition.

This requires better visibility across:

- Carbon emissions.
- Asset efficiency.
- Capital investment.
- Operational performance.
- Regulatory compliance.
- Sustainability initiatives.

Connected enterprise software helps organisations understand where improvements can be made while supporting both operational excellence and long-term business resilience.



Proven business outcomes

The benefits of connected operations extend well beyond technology.

IFS customers have achieved measurable improvements across operational performance, maintenance and asset management.

Business outcome	Customer result
Increase in productivity	22%
Improvement in asset lifetime	30%
Improvement in regulatory compliance team productivity	15%
Increase in equipment utilisation	30%
Improvement in maintenance productivity	25%
Reduction in production downtime	40%

These results demonstrate what is possible when organisations connect assets, maintenance, operations, finance and workforce management through one enterprise platform.



Building a connected oil and gas enterprise

Resilient organisations connect every operational function. Instead of isolated departments, they create one connected ecosystem where information flows across the entire business.

Assets

Manage the complete lifecycle of critical equipment from commissioning through maintenance and replacement.

Operations

Improve production planning, operational visibility and field execution.

Projects

Deliver capital projects with greater control over cost, schedules and resources.

Workforce

Provide engineers and field teams with the information they need wherever they are working.

Supply chain

Improve procurement, inventory management and spare parts availability.

Finance

Connect operational performance with financial planning and investment decisions.

Industrial AI built for industry

Artificial intelligence delivers the greatest value when it is embedded into operational workflows rather than existing as a standalone tool.

Industrial AI helps organisations:

- ✓ Predict equipment failures.
- ✓ Optimise maintenance planning.
- ✓ Improve operational efficiency.
- ✓ Increase workforce productivity.
- ✓ Reduce operational risk.
- ✓ Support safer decision-making.
- ✓ Improve production planning.
- ✓ Extend asset life.

Rather than replacing experienced engineers, Industrial AI enhances human expertise with real-time operational insight.

Supporting upstream, midstream and downstream operations

Oil and gas organisations require technology that supports the entire value chain.



Upstream

Manage exploration, drilling, production assets and offshore operations.



Midstream

Improve pipeline management, transportation, terminals and storage facilities.



Downstream

Optimise refining, processing, distribution and maintenance activities while improving operational efficiency.

Trusted by leading energy organisations

IFS supports some of the world's leading energy and oil and gas organisations, including:



These organisations rely on connected enterprise software to improve operational performance, maximise asset reliability and support long-term resilience.

Why the foundation matters

Many organisations are excited about the opportunities presented by Artificial Intelligence.

However, AI can only deliver meaningful value when it is supported by connected operational data.

The strongest foundations include:

- Enterprise Resource Planning (ERP).
- Enterprise Asset Management (EAM).
- Field Service Management (FSM).
- Connected operational data.
- Industrial AI.
- Integrated financial management.
- Supply chain visibility.

Together, these technologies create a single source of truth that enables organisations to make faster, more confident decisions.

How Platned helps

Platned helps oil and gas organisations modernise operations through successful IFS implementations, upgrades and long-term optimisation.

Our expertise includes:

IFS Cloud implementation.

Enterprise Asset Management.

Enterprise Resource Planning.

Field Service Management.

Industrial AI readiness.

System integration.

Managed Services.

Continuous improvement.

Upgrade and transformation programmes.

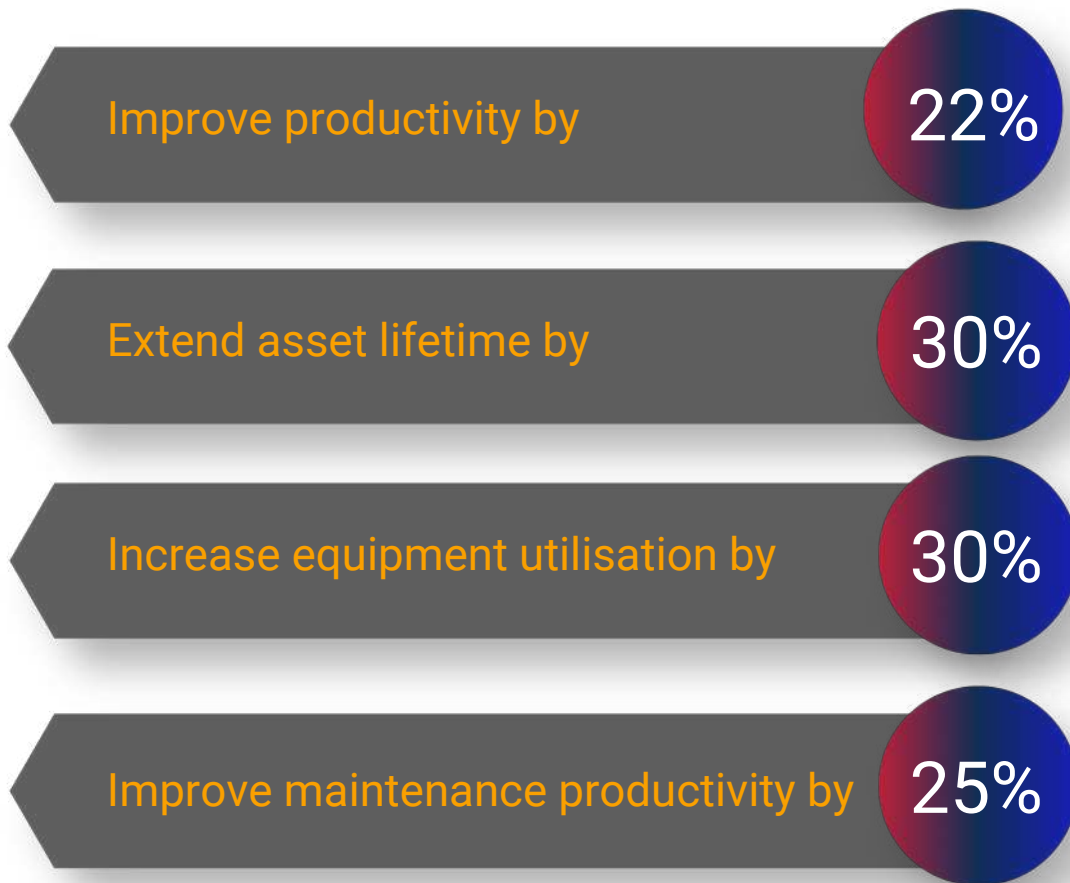
Whether supporting offshore platforms, drilling operations, pipelines, LNG facilities or downstream processing, Platned helps organisations build connected operations that improve resilience, reliability and long-term business performance.



Key takeaways

Oil and gas organisations face increasing operational complexity, but the opportunity has never been greater.

Connected enterprise software combined with Industrial AI enables organisations to:



The future belongs to organisations that connect their assets, people, projects and data to make smarter decisions every day.

Ready to build resilient oil and gas operations?

Discover how Platned helps oil and gas organisations unlock the full value of IFS Cloud through connected Enterprise Asset Management, ERP, Field Service Management and Industrial AI, creating safer, smarter and more resilient operations for the future.

