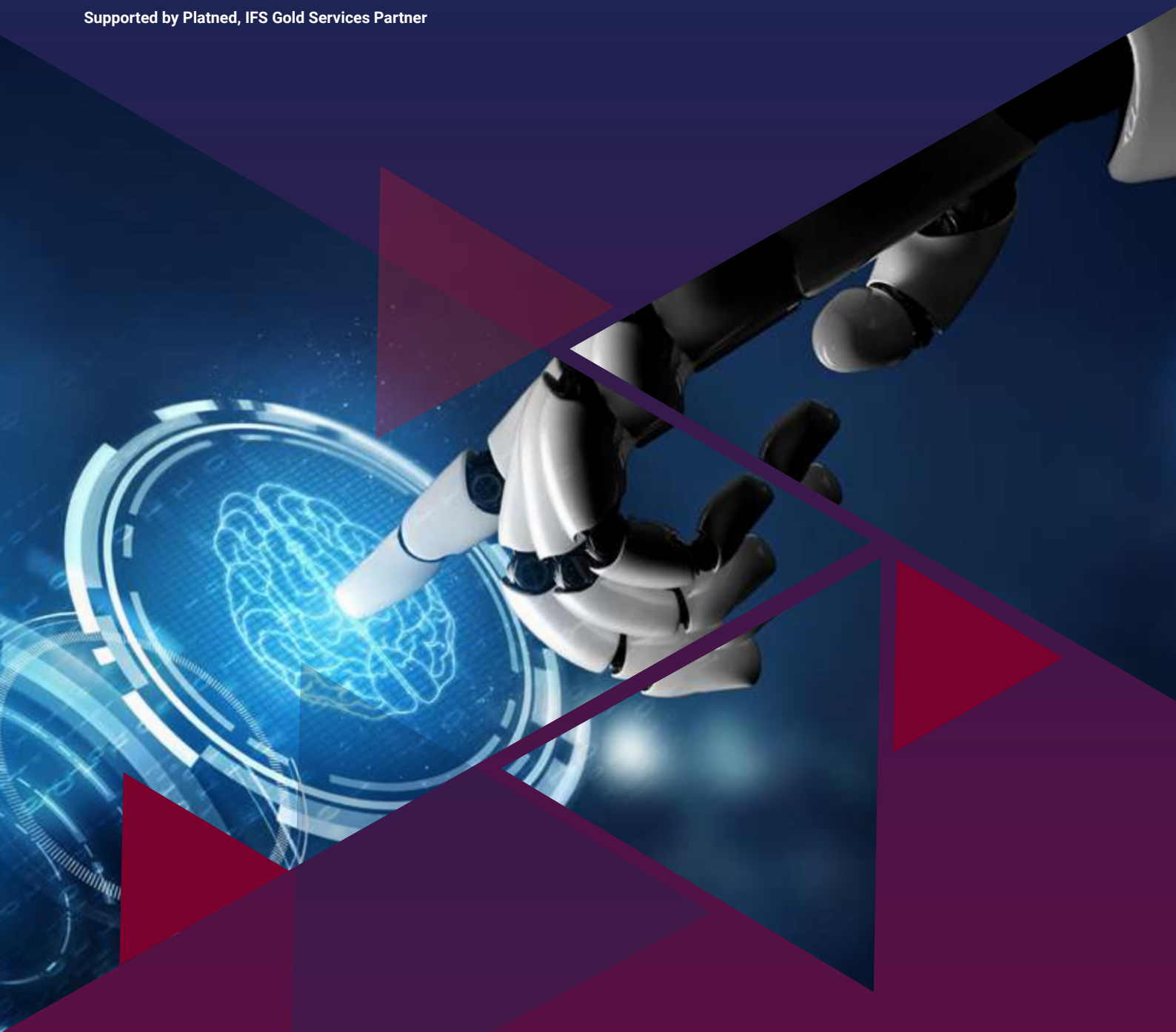
AI-powered Enterprise Asset Management (EAM) with IFS Cloud

How AI strengthens asset reliability, performance and decision making across asset-intensive industries

Supported by Platned, IFS Gold Services Partner



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Content

Turning operational data into real-time asset intelligence

Successful enterprise asset management depends on understanding what is happening across your asset base at any moment. Modern operations generate vast volumes of information from machines, sensors, systems and people. When this data is difficult to access or interpret, it slows decision-making and makes it harder to maintain reliable performance.

Artificial intelligence brings structure and clarity to this continuous flow of operational and asset data. By analysing both structured and unstructured information, AI identifies patterns, highlights emerging issues and supports decisions that strengthen asset health and operational resilience.

This eBook explores how AI enhances asset management across asset-intensive industries and how the right approach to data can improve reliability, uptime and long-term value. As an IFS Gold Services Partner and authorised reseller, Platned works closely with organisations to help them adopt and optimise IFS Cloud capabilities, including the AI-powered EAM functions that drive more proactive maintenance and real-time operational insight.

By understanding the data generated throughout the enterprise and how AI interprets this information in real-time, maintenance teams can shift from a reactive approach to one that is predictive, efficient and better aligned to business outcomes.

Asset data from everywherew

The number of connected devices across asset-intensive industries continues to rise. Global IoT adoption has increased from 8.6 billion connected devices in 2019 to a projected 29.42 billion by 2030. As more equipment, components and systems become connected, organisations are generating larger volumes of operational data than ever before.

This growth creates significant opportunity, as every asset interaction provides information that can support better maintenance decisions. However, the scale of data now produced requires advanced analytical capability to extract meaningful insight.

AI is essential in this process. Techniques such as machine learning, anomaly detection, predictive forecasting and pattern recognition help organisations analyse large and varied data sets. By doing so, AI converts complex information into intelligence that supports asset reliability and long term performance.

8.6 billion
Connected devices in 2019

29.42 billion
Connected devices in 2030

As Forbes highlights:

> **Business assets now generate massive amounts of data that needs to be captured, processed, analysed and transmitted in real time if enterprise systems are to be productive, efficient and robust."**

Asset data across the enterprise

Operational and asset data is generated everywhere within the organisation. Machines, components, IoT connected systems and human input all contribute to a continuous flow of information. When analysed together, this data supports more informed decisions and helps improve asset reliability, efficiency and long-term performance.

Examples of the types of data AI evaluates include:

- Production volumes
- Machine uptime and downtime
- Overall equipment effectiveness
- First pass yield
- Mean time between failures
- Mean time down
- Energy cost per unit
- Carbon emissions

These measures help determine how assets are performing and whether components should be repaired, replaced or adjusted. They also indicate when it is more effective to slow production and wait for a maintenance window or proceed with immediate action.

AI monitors this information continually, identifying when conditions are outside expected ranges and detecting trends that signal potential future issues. By predicting these outcomes, organisations can respond earlier and avoid unplanned disruption.

How AI works with EAM

When AI is embedded within an enterprise asset management solution, data exploration becomes faster and more automated. The solution accesses information from different systems across the organisation, bringing it together to create a clearer view of asset performance.

With AI applied to this information, the organisation benefits from automated analysis, reduced manual effort and more accurate insight. This provides greater scalability in monitoring assets and addressing maintenance needs, enabling predictive maintenance, remote oversight, scenario modelling and detailed analytics that support better decision-making.

AI supports EAM by enhancing several key areas:

Compatibility

Cloud based EAM integrates with other systems across the organisation, making it easier to access data from multiple sources.

Planning and scheduling

Maintenance activities are optimised in real-time, guided by AI-generated insight and recommendations.

Asset lifecycle management

Data from across the lifecycle of an asset is analysed to support decisions that improve performance, reliability and long-term value.

A recent EAM trend report shows the technologies organisations believe will have the most positive impact on maintenance and operational practices. These include IoT sensors, predictive modelling, AI, automation, machine learning, digital twins, mixed reality and contextual intelligence.

Benefits of an AI assisted EAM data model

Applying AI to enterprise asset data provides arange of benefits for organisations that depend on reliable, high performing assets. By analysing information from across the operation, AI supports clearer decision making and helps teams take earlier, more informed action.

1. Real time analysis of asset data

Understanding what is happening in the moment is essential for effective oversight. AI algorithms detect anomalies in real time, helping the organisation identify emerging issues quickly and choose the fastest route to resolution while minimising disruption.

2. Proactive and predictive asset management

Unplanned downtime can be extremely costly, which is why many organisations are moving from reactive to predictive maintenance. AI uses operational data from assets and connected systems to detect patterns and identify early signs of potential failure. By combining historical and real time information, AI supports more accurate forecasting and reduces the need for routine or time based maintenance.

3. Greater asset reliability

With insight into both current and future requirements, AI strengthens asset reliability by helping teams address issues before they affect productivity. Methods such as failure modes, effects and criticality analysis are improved with AI supported data. This also helps optimise supporting activities such as inventory planning, staffing and scheduling, ensuring resources are used more effectively and maintenance is carried out at the right time.

Convert asset data into real time intelligence

IFS Cloud EAM brings AI directly into asset management processes, helping organisations interpret operational data and apply it to daily decision making. AI enables teams to contextualise information, understand patterns and simulate outcomes, supporting stronger asset reliability and more informed planning.

By analysing behaviour, performance trends and maintenance history, AI helps reduce unplanned downtime and improve the timing of interventions. Real time intelligence allows teams to act earlier and prevent issues before they affect productivity.

AI also strengthens wider operational decision making by improving forecasting, resource planning and maintenance scheduling. With clearer insight into current conditions and future states, organisations can improve efficiency, reduce costs and maintain long term asset health.

As IDC notes:

> **IFS has strength in the breadth of service capabilities that incorporate AI, machine learning and IoT."**

Industry Page: Manufacturing

Strengthening production reliability with AI-powered maintenance

Manufacturers operate in environments where every asset affects throughput, quality and delivery commitments. Unplanned stoppages can interrupt production, cause scrap, and reduce operational efficiency. IFS Cloud EAM helps manufacturers protect output by analysing asset data in real time and highlighting early warning signs before they cause disruption.

AI evaluates sensor readings, machine behaviour and performance trends to support predictive maintenance and better maintenance timing. This improves uptime and reduces reactive work. With visibility of overall equipment effectiveness, energy use, availability and utilisation, manufacturers can make decisions that support stable production and long-term asset health.

IFS Cloud also strengthens lifecycle planning by bringing together maintenance history, operational performance and cost data. Manufacturers gain a clearer view of which assets need attention, which are candidates for replacement and how to improve efficiency across the plant.

Industry Page: Energy, Utilities and Resources

Improving asset integrity and operational resilience

Energy, utilities and resources organisations manage large, diverse and geographically spread asset networks. The ability to detect issues early, maintain compliance and ensure safe operations is essential. IFS Cloud EAM supports this by combining real-time condition data with predictive analytics to strengthen asset integrity and reduce operational risk.

AI helps identify performance deviations, potential failures and environmental impacts before they escalate. Teams gain the insight needed to schedule maintenance efficiently, reduce field visits and improve reliability across critical infrastructure. With integrated geographic information, operators can pinpoint issues quickly and dispatch resources more effectively.

IFS Cloud provides visibility across the entire lifecycle of assets such as pipelines, substations, treatment facilities, drilling equipment and network components. This supports regulatory compliance, capital planning and sustainability goals by helping organisations monitor energy use, emissions and long-term asset performance.

Industry Page: Construction and Engineering

Improving utilisation and reducing project risk

Construction and engineering firms rely on assets that move between sites, projects and locations. Equipment availability, utilisation and reliability have a direct effect on project schedules, costs and workforce efficiency. IFS Cloud EAM helps organisations track and manage these assets in real time.

AI-supported insight identifies early signs of wear, breakdown risk and performance decline, allowing teams to plan maintenance around project timelines. This reduces delays, avoids unexpected downtime and ensures equipment is ready when needed. By consolidating usage data, maintenance history and asset costs, organisations can improve forecasting and reduce unnecessary hire or replacement.

IFS Cloud also enhances safety and compliance within construction environments by providing visibility into inspections, certifications, and regulatory requirements. With a clearer picture of asset condition and lifecycle costs, firms can reduce waste, plan investments more effectively and support more predictable project delivery.

Industry Page: Service Industries

Maintaining performance to protect customer commitments

Service-focused organisations rely on the consistent performance of assets that support customer delivery. Whether operating facilities, fleets, or specialised equipment, reliability is essential for meeting service-level expectations. IFS Cloud EAM helps organisations reduce disruption by analysing asset data in real-time and highlighting behaviour that may indicate future issues.

AI-supported analytics help teams prioritise maintenance, anticipate failures and reduce reactive work. This strengthens service continuity and improves operational planning. With visibility of asset utilisation, downtime, repair history and energy consumption, organisations can make informed decisions that support efficiency and customer satisfaction.

IFS Cloud also enhances coordination between maintenance and field service teams. Shared asset data supports accurate dispatching, better resourcing and improved first-time fix rates. By managing assets across their full lifecycle, service organisations can improve performance, control costs, and maintain high service quality.

How Platned supports AI-powered enterprise asset management with IFS Cloud

Organisations across asset-intensive industries are looking for ways to strengthen reliability, reduce downtime and make better use of the growing volume of operational data. IFS Cloud EAM provides the platform for this shift, and Platned helps ensure it delivers its full value from day one.

As an IFS Gold Services Partner and authorised reseller, Platned works closely with customers to implement, optimise and continuously improve IFS Cloud EAM. Our teams help organisations turn asset, maintenance and operational data into clear, real-time intelligence that supports day-to-day operations and long-term strategy.

Implementing IFS Cloud EAM effectively

Platned ensures the solution is configured to support AI driven maintenance and predictive insight. This includes designing asset structures, integrating data sources and enabling EAM capabilities that reflect operational needs.

Connecting data from across the enterprise

Modern environments produce large amounts of information from sensors, equipment, IoT devices and human input. Platned helps structure and connect this data within IFS Cloud so AI can analyse it accurately and continuously.

Supporting predictive and condition-based maintenance

Using AI-powered modelling and anomaly detection, IFS Cloud helps organisations act before issues escalate. Platned assists maintenance and operations teams in adopting these practices and building them into everyday processes.

Strengthening visibility and decision-making

Platned guides teams in configuring dashboards, KPIs and reporting so they can monitor performance indicators such as uptime, energy use, OEE and asset health. This supports better production planning and clearer long-term investment decisions.

Improving lifecycle asset management

From commissioning to decommissioning, Platned helps organisations use IFS Cloud to understand lifecycle costs, plan replacements and extend asset life through data driven decision making.

Providing continuous optimisation and support

As operations evolve and new features are released, Platned provides ongoing optimisation and upgrade support. This ensures IFS Cloud continues to deliver strong value through its evergreen update model and embedded AI innovations.

About Platned

Platned is a global IFS Gold Services Partner, helping organisations get the most from IFS Cloud™ across industries including manufacturing, construction, energy, utilities, service, and more. With offices across the UK, US, Sri Lanka, and the Nordics, we combine deep technical expertise with industry knowledge to deliver successful transformations.

Our portfolio goes beyond implementation – we provide ongoing optimisation, managed services, and specialist tools such as Mahara for automated testing, ParsaAI for finance automation, Platned Gateway for proactive support, Boomi for integration, and Power BI for data insights.

We are trusted by leading organisations worldwide to deliver solutions that improve resilience, increase profitability, and support sustainable growth.

Find out more about how Platned can help your business today:
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