



G-Cloud 15 Service Definition

Accenture Intelligent Asset Management

Jan 2026

accenture

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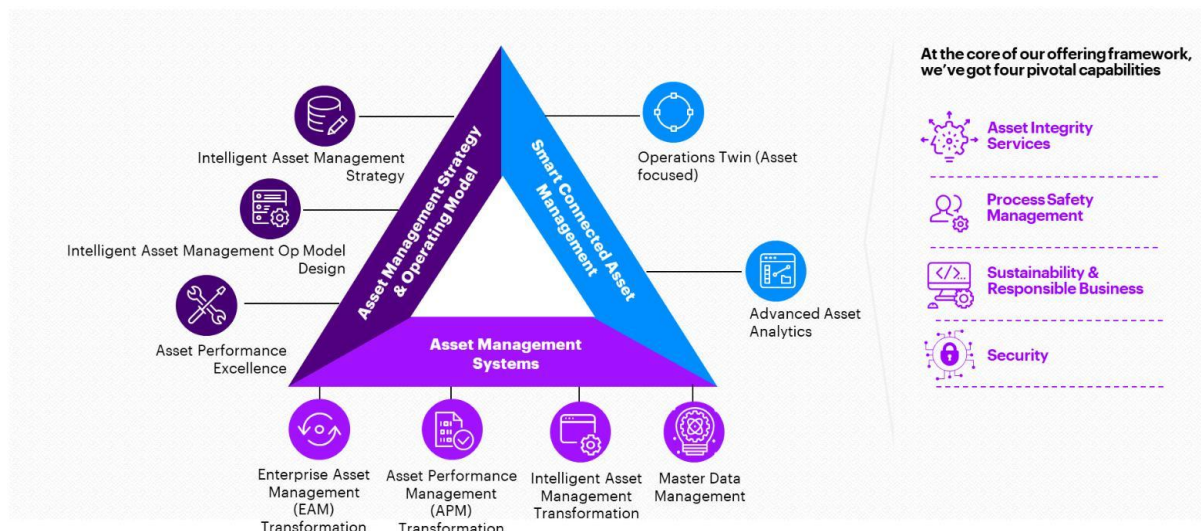
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1.0 Scope of our services

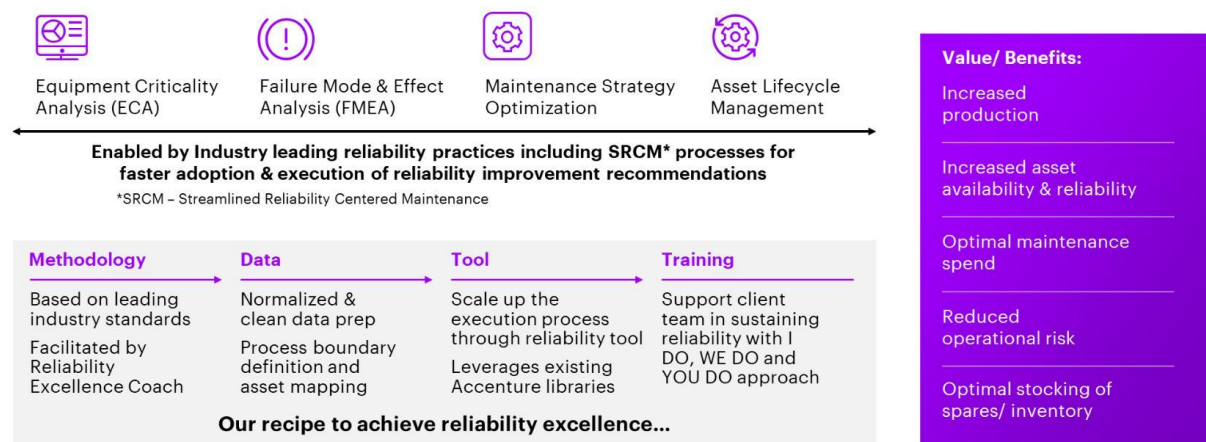
We work with our clients to unlock value by focusing on key Intelligent Asset Management areas including

- **Asset Management Strategy & Operating Model:** Set up strong foundation with effective strategies and agile operating model and deploy standards, work management process & leading practices for asset lifecycle management
- **Asset Management Systems:** Deploy / Optimize EAM and APM systems in an integrated fashion to enable streamlined workflow enabling longer term Asset Management goals
- **Smart Connected Asset Management:** Leverage advanced analytics and Artificial Intelligence to ensure safe, efficient, and reliable operations

Our capabilities & offerings help clients steer through different elements and reach end state of IAM



Asset Performance & Lifecycle Management (APM) Strategies



Materials Management & Inventory Optimization



Bill of Material (BoM) Management

- Material Cataloguing
- BoM identification & build



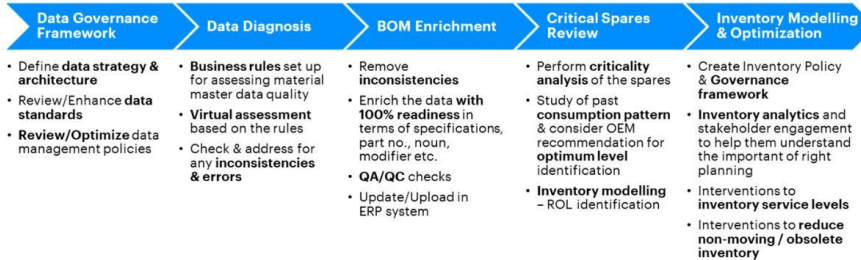
Critical Spares Management

- Critical spares identification
- Spares stocking
- Level of repair analysis



Inventory Optimization

- Inventory modelling & analytics
- Obsolescence reduction
- Optimal stocking



Value/ Benefits:

- Reduced inventory cost
- Reduced obsolete inventory
- Reduced stock-outs
- Optimal inventory levels
- Reduced inventory carrying cost

Enterprise Asset Management (EAM) Transformation

EAM Transformation Services

- EAM diagnostics & vendor selection
- EAM transformation strategy, implementation & support

Work Control & Management

- Standardized work management processes
- Work planning, scheduling, execution & tracking



Field Worker Efficiency

- Integrated maintenance procedures & real-time update of activities

Inspection & Operator Rounds

- Inspection checklists linked with strategy recommendations
- Record real-time performance data during operator rounds

Electronic Work Control

- Technology solution to manage maintenance processes
- Prompt defect report & action

Holistic view of organization's physical assets & infrastructure throughout their lifecycle - from design, commission or procurement to operation, maintenance, disposal and replacement

Hands-on expertise in these key EAM solutions:

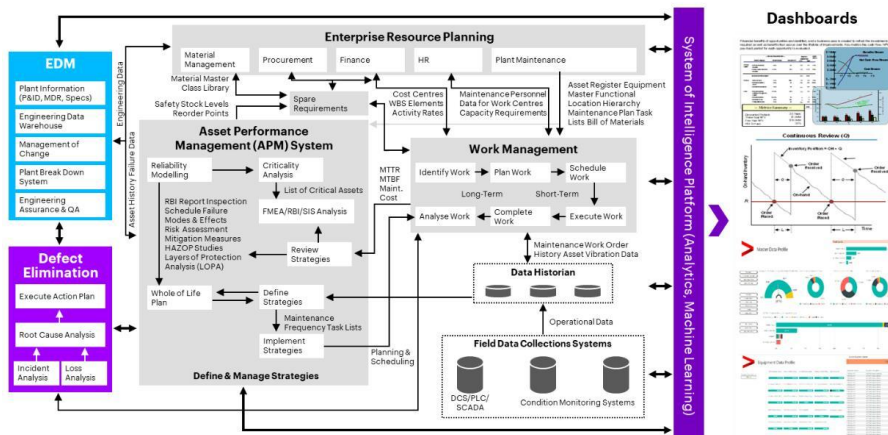


Value/ Benefits:

- Increased operational efficiency
- Improved asset lifecycle management
- Optimal maintenance spend
- Increase in planning & scheduling efficiency
- Increased job safety & ESG metrics

Asset Performance Management (APM) Transformation

We help deploy a fit for purpose APM solution using our reference architectures

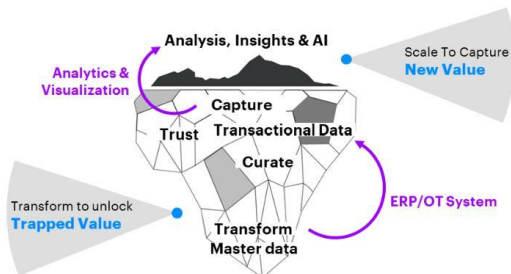


Value/ Benefits:

- Increased operational efficiency
- Improved asset lifecycle management
- Improved asset reliability
- Optimal maintenance spend
- Increase in planning & scheduling efficiency

Master Data Management

Our Master data management approach is underpinned by standards-driven data management, which helps unlock significant value and enables sustainable digital transformation



Key Solution Elements

- Data management strategy
- Data architecture development
- Data diagnosis & quality monitoring
- Data governance model
- Data standardization & transformation

Value/ Benefits:

- Increased Compliance
- Improved Enterprise Data Quality
- Improved Reporting Efficiency
- Improved efficiency of Operations planning
- Reduced Material Costs

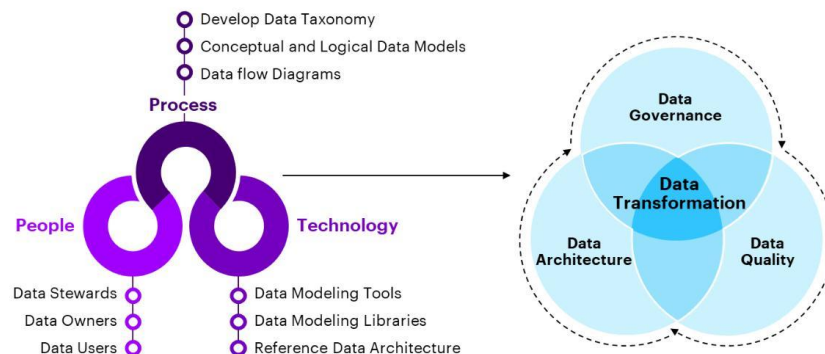
Enabled By...

- 01** Leading Industry standards such as ISO 14224, ISO 8000, ISO 15489, CFIHOS, ISO 15926, ISO 55000, MES, UNSPSC, eCl@ss
- 02** Data Governance Maturity, Data Quality Diagnostic toolkit, Material / Service Master Repositories, Asset Data catalogs amongst an ever growing list of enablers

Data Governance & Data Quality Tools Implementation

Data Governance & Data Quality Tools Foundation

Targeted approach to define the **processes, systems** and human organizations required to **organize, maintain and analyze data across data lifecycle**



Value/ Benefits:

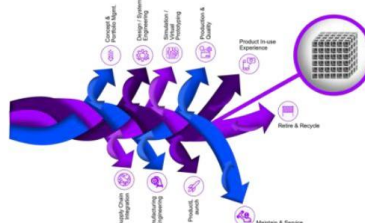
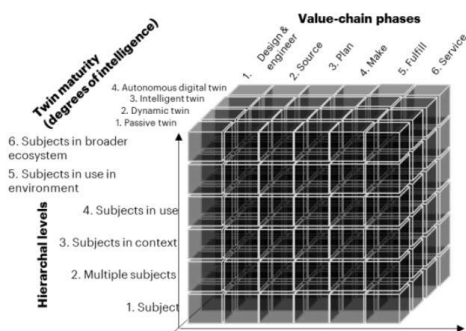
- Reduce operating costs
- Improve data quality and access controls
- Reduce data complexity
- Secure and compliant data
- Enhance analytics capabilities

Operations Twin (Asset focused)

Asset focused operations twin & thread to virtually visualize, model, predict, etc. to optimize asset performance.

A **digital twin** is a virtual representation of a potential or tangible, often physical, thing or process.

The **digital thread** is an end-to-end data architectural construct which connects and communicates contextualized data across the value chain of a product or process.



In our analysis of companies that have merged the data supporting standalone twins into a fully-integrated digital thread, typical value propositions are:

Value/ Benefits:

- 20% – 40% reduction in costs for data duplication and overlapping toolsets
- Up to 5x the speed of data capture and curation through thread automation
- 30 – 45% increase in accuracy in predicting service or spare parts needs

Advanced Asset Analytics

A data centric approach augmented by analytics' skills & industry expertise helps to solve chronic business problems

Using analytics' skills...

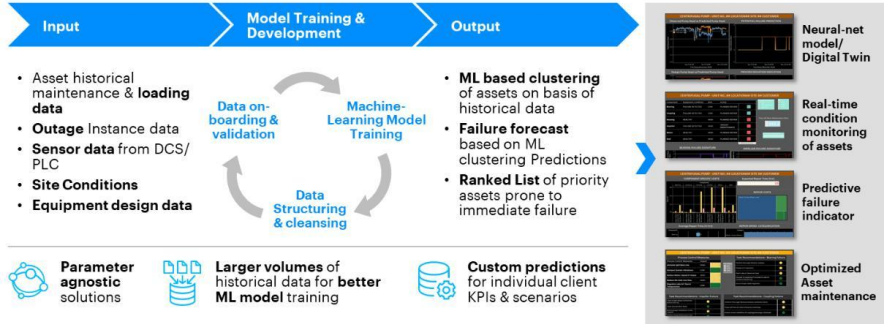
- Machine Learning
- Engineering
- Modeling, simulation, optimization
- Data Science
- Cloud Computing

...and industry expertise...

- Equipment Criticality
- Root Cause Analysis
- Asset Management
- Spare parts planning
- Reliability Centered Maintenance

...to generate models to solve chronic business problems

- Predictive analytics forecasting & reporting
- Simulation and optimization
- Predictive alerting



Value/ Benefits:

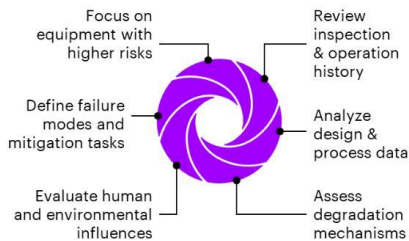
- Reduced operating costs
- Reduced breakdown maintenance costs
- Reduced turnaround time
- Predictive optimized process parameters
- Predictive models for custom scenarios

Asset Integrity Services

Asset integrity studies are intended to...

- Increase asset availability by reducing failures due to corrosion (leaks and unplanned outages)
- Reduce Inspection and maintenance costs
- Maintain statutory compliances with HSE policies

...by taking holistic view of asset lifecycle



Data Mining & System Creation

- Collect PFDs & PIDs
- Identify system
- Create corrosion loops
- Review information and identify gaps
- Systemize and create piping circuits



Damage Mechanism Review

- Identify initial damage mechanisms, damage modes and susceptibilities
- Annotate PFDs to create corrosion and material diagrams

Comprehensive Risk Review

Determine probability & consequence of failure for each damage mechanism

RBI recommendations

Inspection Plans

Integration with EAM

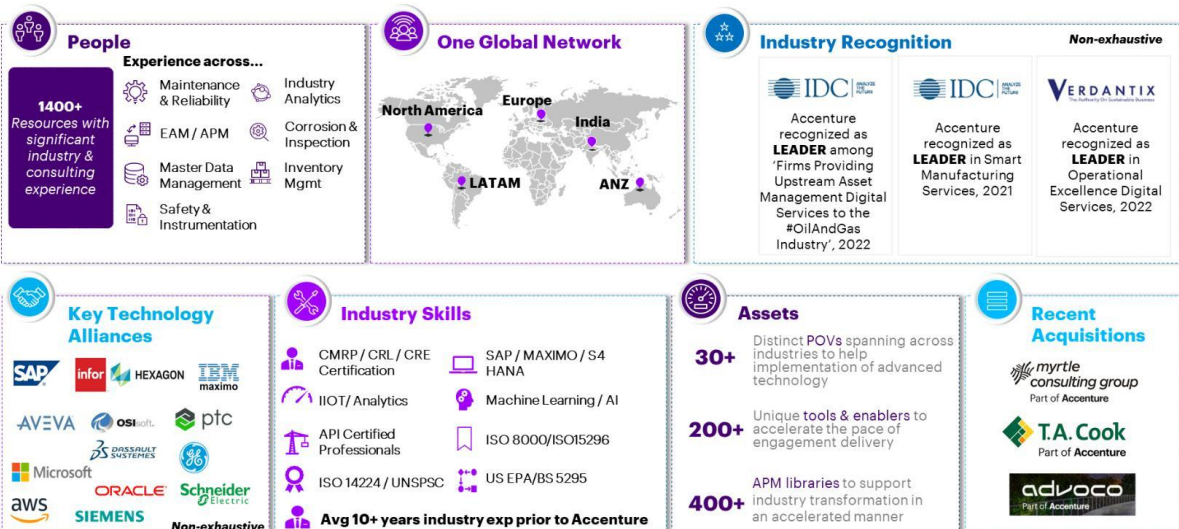
Risk Based Inspection (RBI) & Corrosion Management

Pipeline Integrity Management

SIF/SIL/SIS Analysis

Value/ Benefits:

- Reduced cost of inspection
- Reduced costs of turnarounds
- Increased Compliance with API & NACE standards
- Reduced risks (safety & environmental)
- Increased asset availability & reliability



2.0 Approach

Our two phased approach of diagnosis and deployment enables development of agile asset management solutions:

Asset Management Diagnostics

- Maintenance Cost Opportunity
- Production Value Opportunity
- Integrated Framework for Assessment

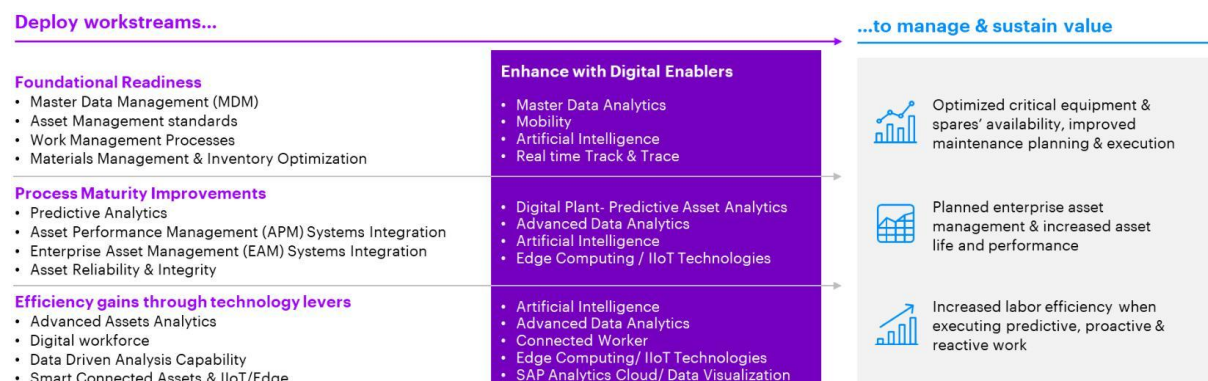
Agile Transformation

- Focused APM Interventions
- Value Driven Asset Management Goals
- Resilient & Sustainable Asset Operations

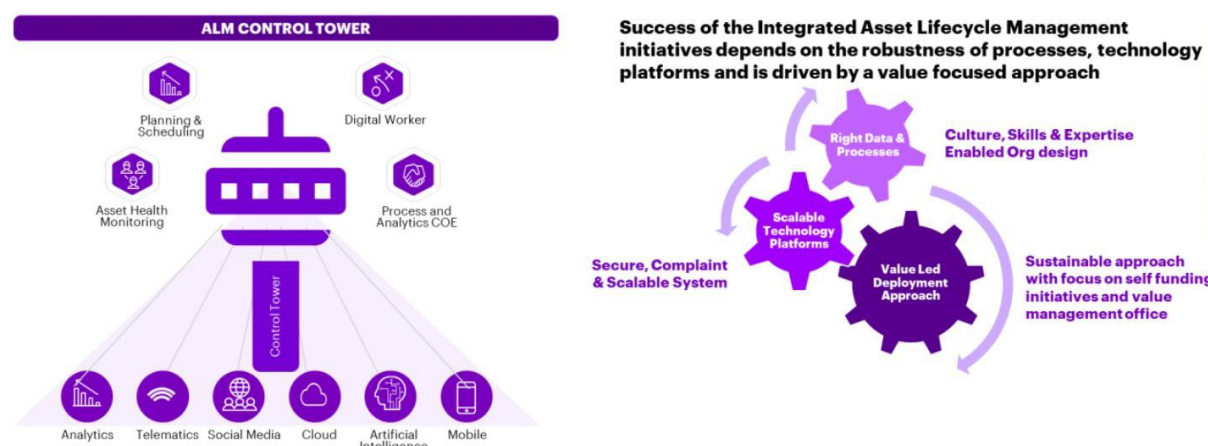
Asset Management Diagnostics helps determine the areas along with extent of improvements required through:

- Maturity diagnosis: Our comprehensive questionnaires focus on complete asset management value chain and help diagnose the maturity of each asset management aspect
- Opportunity & value identification: Opportunities to reduce maintenance spend based on industry performance benchmarks and release capacity are considered and prioritized
- Outcomes: Diagnostic outcome is a comprehensive improvements' roadmap developed for entire asset management value chain

Agile Transformation helps implementing improvements and managing emanating value, with organization change management.



We are reimagining the future of integrated Asset Lifecycle Management (ALM), powered by digital. ALM Control Tower, enabled by Cloud, Platform & Analytics, can help to drive desired business outcomes.



Accenture's WIDE methodology can help clients focus on fit for purpose initiative deployment journey while ensuring a clear visibility of a scalable yet sustainable asset lifecycle management end state solution. Our WIDE framework supports the feasibility assessment of relevant use cases which deliver long term value.

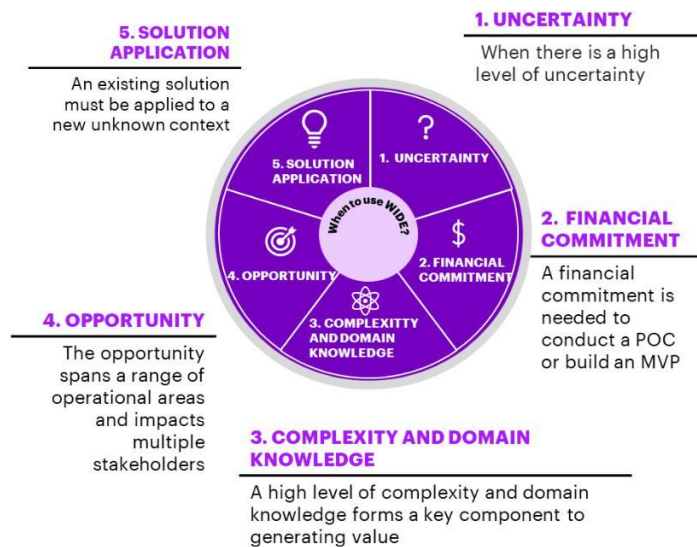
What is the purpose of WIDE?

- **WISDOM:** Do we have the pertinent knowledge for the use-case?
- **INSTRUMENTATION:** What instrumentation and sensors are currently being used?
- **DATA:** What is the availability, quality, and veracity of the data?
- **ENABLEMENT:** To what extent can a potential analytics solution be implemented?

Why use WIDE?

- **Value Guarantee:** The WIDE assessment helps to validate many of the underlying assumptions of each use case. It identifies where the value lies and how best to realize it.
- **Decision Making:** The WIDE assessment provides confidence to senior stakeholders who need to decide on committing to a fully developed solution. The combination of an accurate business case and a realistic view of the feasibility remove the guess work that is often inherent at the start of many projects.
- **A Headstart for Collaboration:** The WIDE assessment begins to build a joint Client-Accenture team. It establishes a collaborative work approach and builds key relationships ahead of any solution development phase.

When to use WIDE?



Data is bedrock of key enterprise initiatives; but successful adoption of ALM requires focus on the right data elements linked to prioritized use cases.

Investments in data and digital have improved firms' operations, not transformed them into data driven organizations.

A large reason for the gap is the focus on developing data capabilities at the expense of integrating the new data capability into the business.

It is critical to focus organizational resources on the data that is relevant to business outcomes, requiring significant shifts:

Digital transformation to address,

- Lack of data foundations
- Lack of data fluency
- Unavailability of quality data
- "POC" to "Scale" is difficult

Platforms transformation to address,

- Disparate data systems
- Inconsistence data definitions and taxonomy
- Incomplete master data

Organization pivot to address,

- Lack of executive level vision on data value

- Data is considered as “Not Glamorous” work
- “Tribal Knowledge” to “Data Savviness” is a long journey



3.0 Assets, tools and features

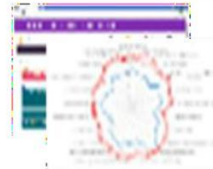
Our unique enablers and tools accelerate the pace of engagement delivery to deliver target outcomes.

Maintenance & Reliability (M&R) Playbook



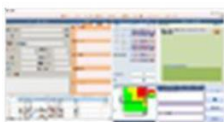
A comprehensive approach to transform existing maintenance processes at par with industry leaders

Asset Reliability & Maintenance Management (ARMM) Tool



A qualitative and quantitative assessment for capability maturity in M&R domain

Asset Reliability & Maintenance Strategy Tool



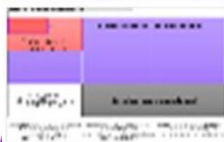
Comprehensive Reliability & maintenance strategy tool which includes FMEA, RCA, Risk assessment, etal templates

APM & HSE Business Process Models & KPIs Repository



Collection of APM & HSE business process models & KPIs as per leading industry practices

Critical Sparing & Inventory optimization Tool



Material management & inventory optimization tool for use in calculating optimum stocks of critical spares

EAM/CMMS Diagnostics & Vendor selection Tool



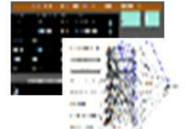
Tool for EAM/ CMMS Diagnostics and vendor selection based on compatibility and features

Processing Tool - ADAP I



A comprehensive industry benchmarking tool used in Inspection planning

Asset Analytics Tool



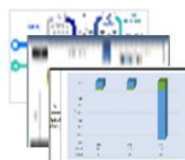
Robust tool for collection of asset data and generation of predictive analytics

Corrosion Management Suite



inspection management and reliability improvement tool use for corrosion management

Asset Lifecycle Cost (ALCC) Tool



Asset Lifecycle cost assessment tool for calculation of asset ageing and overall cost of maintenance across its lifecycle

These are combined with leading Data & AI Accelerators.

[illegible]

R 1.3 Process Flow

Even to starting this process, the information Data should ensure the data element being assigned to the data flow.

Fig. 3.30: A screenshot of a presentation slide showing a process flow diagram. The diagram illustrates a sequence of steps: 'Start' leads to a decision 'if data is available?'. If 'No', it goes to 'get data from source' and then to 'data is available?'. If 'Yes', it goes to 'process data'. Both paths lead to 'data is processed?'. If 'No', it loops back to 'get data from source'. If 'Yes', it goes to 'End'.



Business Engagement and Business Relationship Management

Current State | Priority Alignment

Current State Business Engagement Maturity

Engagement

- Strategic Engagement: High-level, long-term relationships with key stakeholders.
- Tactical Engagement: Medium-term, specific projects or initiatives.
- Operational Engagement: Day-to-day interactions and processes.
- Transactional Engagement: Short-term, one-time transactions.
- Ad-hoc Engagement: Sporadic, unplanned interactions.



Prioritization Methodology and Proposed Development Waves

1. Determine priority
2. Prioritize based on Market/Geography
3. Prioritize based on Risk and Use Cases
4. Market assessment

1st Wave

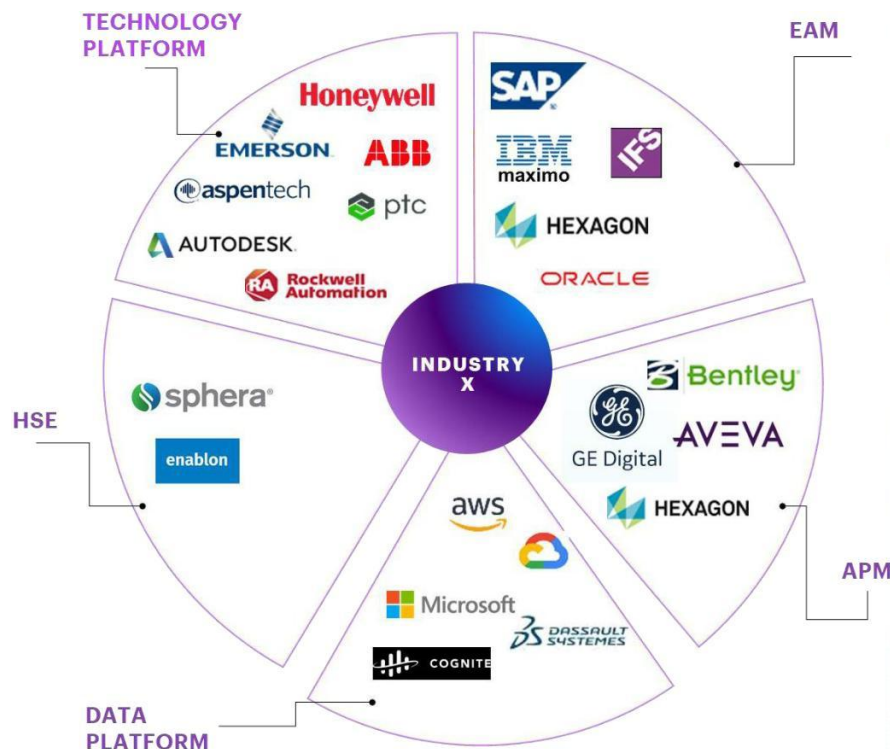
- US
- Canada
- Australia
- Italy
- Russia

2nd Wave

- Germany
- France
- Spain
- United Kingdom
- Ireland

3rd Wave

- Other countries



We are a future-focused organisation which employs other emerging technologies that can pave way for innovative and holistic solutions including:

- **Mobility:** Mobility services enable workers to have seamless connectivity through wearable devices, mobile devices etc., ensuring increased productivity, higher efficiency, and work satisfaction.
- **Video Analytics for Linear Asset Management:** Video analytics help capture, process, and utilize image data of remote assets with disparate locations and thus enable effective monitoring & analytics of linear assets.
- **VR/AR Enabled Maintenance:** Augmented reality/ Virtual reality provides an interactive, immersive experience of real-world or simulated maintenance scenarios which can be leveraged for root cause analysis (RCA), training, visualizing hypotheses, etc.
- **Blockchain for Maintenance:** Blockchain employs the principles of digital traceability to ensure critical data related to asset operations & maintenance is stored securely along with rules that drive asset maintenance in line with business processes.
- **Automated Vehicles for Inspection:** Drones and autonomous vehicles equipped with real-time data sharing can detect defects, visually inspect, carry packages etc. at places considered confined or too risky for humans.
- **Wearables for Resource Productivity:** Wearables clubbed with leading technology to relay data and enable real-time flow of important information to maintenance & production workforce.

- **IT/OT/Big Data for Predictive Analytics:** Information technology and/or Operational technology facilitated by Bigdata provides predictive solutions to asset management practices.
- **Artificial Intelligence & Machine Learning:** AI and ML can generate actionable insights & predictive analyses for programmed challenges.

Our solutions are further strengthened by latest technologies and our ecosystem alliance partners.

4.0 Credentials & Outcomes

We have worked with major public and private sector organisations across industry and geographies to deliver an effective Intelligent Asset Management Solution. Some examples and outcomes are demonstrated below.

Large Chemical Company: Optimizing asset management

- A large chemical company needed a robust asset management capability that could help ensure reliability-centred production and meet customer demands at a competitive price while enhancing workplace safety, asset reliability and cost optimization.
- The company joined forces with Accenture to deploy a remote reliability assessment across more than 100 sites, define and implement a corporate asset management strategy, create a capability maturity roadmap and playbooks to improve foundational capabilities, and deploy teams to support capability- building and drive accelerated value at strategic sites.
- With its new asset management strategy in place—coupled with the accelerated deployment of work management processes—the company has achieved the operational discipline to drive reliability-centred production, maximize asset reliability and draw greater returns on asset investments. One site could see more than 200 hours of regained equipment uptime due to early failure detection.
- The program will play a key role in ensuring the company's operational health, competitive advantage, and ability to increase worker safety and efficiency through industry- leading digital tools and capabilities.

Global Oil and Gas Company: Developing a corrosion-detection model for improved pipeline

Accenture deployed an analytics-based asset integrity model to help the client predict and address pipeline issues and effectively manage corrosion under insulation (CUI).

- The model built by leveraging corrosion and pipeline operations data, and infusing advanced analytical capabilities with artificial intelligence (AI) and machine learning has unlocked the full value of IAM for the client
- **Value outcomes included:**
 - Real-time corrosion Management
 - Optimized resource utilization
 - Significant cost savings
 - Improved reliability management

Independent Oil and Gas Company: Automated pipeline inspection takes flight

- To improve its pipeline-inspection capabilities, as well as the safety of its pipeline inspectors, an independent oil and gas company wanted to automate its inspection process.
- Accenture helped this client test the feasibility of applying advanced analytics and unmanned aerial vehicles (UAVs) to detect and predict pipeline corrosion. The proof-of-concept—which

utilizes computer vision, image recognition, advanced algorithms, and more than 20 artificial intelligences (AI) and machine learning techniques—has shown that automated inspection is not only possible in the oil and gas industry but can greatly bolster existing manual inspection processes.

- Armed with the results of this pilot program, the client is moving forward with full deployment of the solution

Global Chemical Company: Developing predictive analytics for effective corrosion management

The client's chemical dosing process was not optimized, leading to increased equipment failures due to corrosion, as well as high expenses on chemicals. The client wanted an automated corrosion management system which could help optimize the chemical dosing process through the provision of deeper insights into the impact on asset life, wall thickness and costs, ultimately enabling data-driven decision making and automatic best actions on dosing strategy.

Accenture delivered value by building a predictive modelling system with the latest breakthrough technologies and leveraging their vast industry experience.

The client is expected to benefit significantly from:

- Corrosion rate reduction.
- The mitigation of equipment failure risks through proactive measures.
- Improvements in asset life through predictive mechanisms and correlation analysis.
- Better control and monitoring of its assets – including wall thickness for heat exchangers, pipes, and cooling systems.
- Enhanced cost savings through optimum chemical dosing levels.

Integrated Chemicals and Energy Company: Bringing new clarity to boiler inspections through drones and computer vision

- Inspecting equipment deterioration, waste buildup and leaks in hard-to-access industrial infrastructure can be a time-consuming, difficult, and dangerous process. That's why an integrated chemicals and energy company and Accenture collaborated to blend drone technology with computer vision and develop a faster, easier, and safer solution.
- With video of otherwise inaccessible coal-fired boiler equipment captured by drones, we used convolutional neural networks to train models to detect burner deterioration with more than 90 percent accuracy, clinker formation with more than 75 percent accuracy and water leaks with more than 80 percent accuracy.
- The new solution has provided the foundation to start implementing a data management and analytics platform for drone data coming from boiler inspections.

Global Mining Company: Developing a pipeline leak detection system roadmap for enhanced safety & risk avoidance

- The client was concerned about the potential for leaks in its dense network of upstream pipelines operating in sensitive environments. The company sought to create a sophisticated leak-detection system to help it quickly identify and resolve any problems.
- Working closely with the client's engineers, Accenture began by assessing the client's pipeline operations and examined the technologies and leading vendors to determine how leak-detection technologies could be applied to that network. This work led to a set of recommendations for creating and deploying the right combination of technologies for each operational mode—including some technologies never used in pipelines before— and provided a roadmap for moving forward with best business practices for using the systems. This effort, completed in just three months, gave the client clear strategic guidelines for implementing an effective and comprehensive leak-detection system. Once the solution is in place, the resulting detection capabilities are expected to strengthen the company's ability to operate safely and to reduce the risk of leaks. Overall, this approach is expected to help the organization avoid environmental damage, as well as any related damage to customer relationships and the company's reputation.

5.0 Pricing

Please refer to the associated pricing document/ rate card relevant for this service.

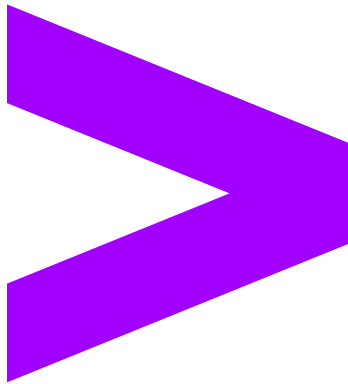
6.0 **Contacts**

Email: UK.TenderMonitoring@accenture.com

Telephone: +44 (0) 20 7844 4444

7.0 About Accenture

Accenture is a leading global professional services company that helps the world's leading businesses, governments and other organisations build their digital core, optimise their operations, accelerate revenue growth and enhance citizen services—creating tangible value at speed and scale. We are a talent- and innovation-led company with approximately 799,420 people serving clients in more than 120 countries. Technology is at the core of change today, and we are one of the world's leaders in helping drive that change, with strong ecosystem relationships. We combine our strength in technology and leadership in cloud, data and AI with unmatched industry experience, functional expertise and global delivery capability. We are uniquely able to deliver tangible outcomes because of our broad range of services, solutions and assets across Strategy & Consulting, Technology, Operations, Industry X and Song. These capabilities, together with our culture of shared success and commitment to creating 360° value, enable us to help our clients reinvent and build trusted, lasting relationships. We measure our success by the 360° value we create for our clients, each other, our shareholders, partners and communities



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