

ELEVATING ENTERPRISE ASSET MANAGEMENT (EAM) IN THE DIGITAL AGE

**DETAILED FINDINGS FROM
THE BENCHMARK REPORT**
By Mark Vigoroso **August 2023**

DETAILED FINDINGS



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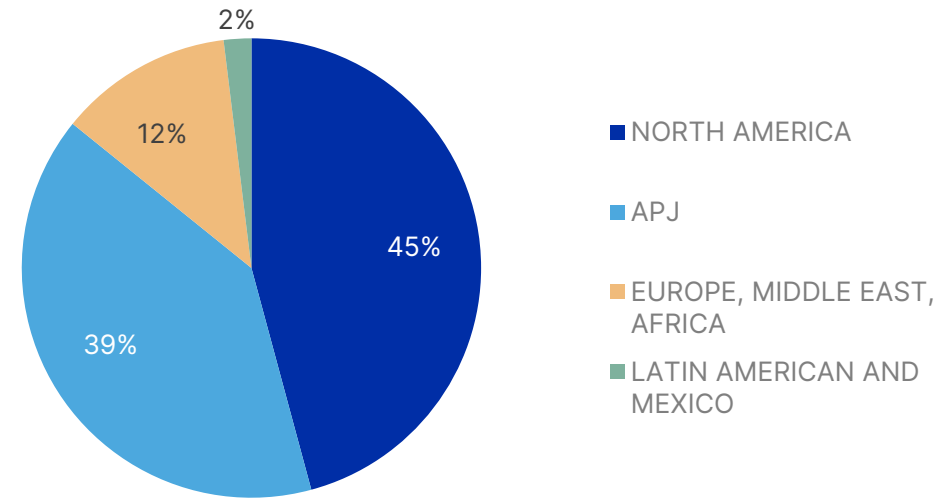
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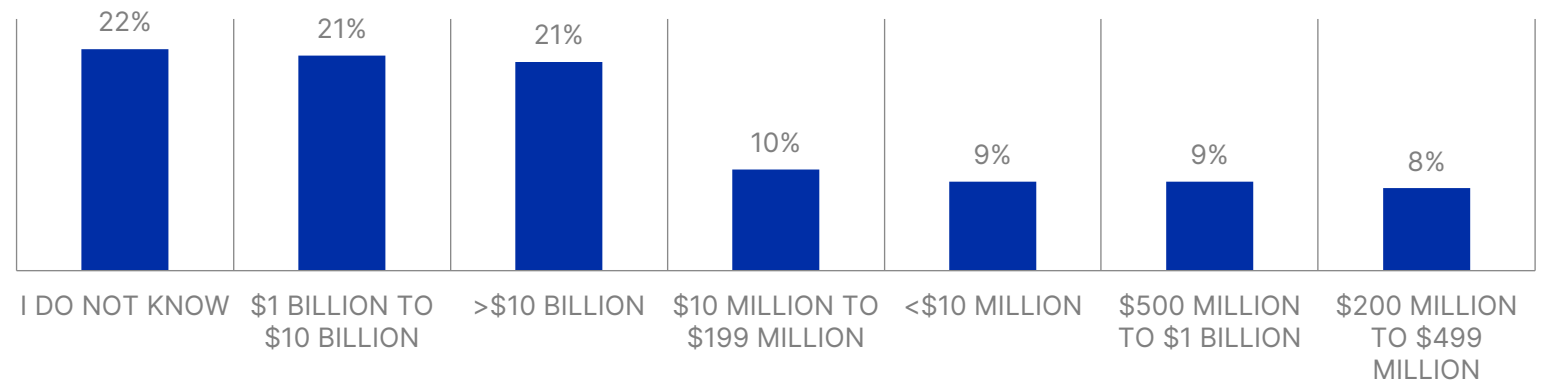
Between May and July 2023, SAPinsider surveyed a total of 159 members.

The survey participants came from various geographical regions worldwide and represented diverse organization sizes, contributing to a comprehensive dataset.

The primary objective of the survey was to gather insights from professionals who were involved in enterprise asset management decisions within their respective organizations.



Annual Revenue in the Last Fiscal Year



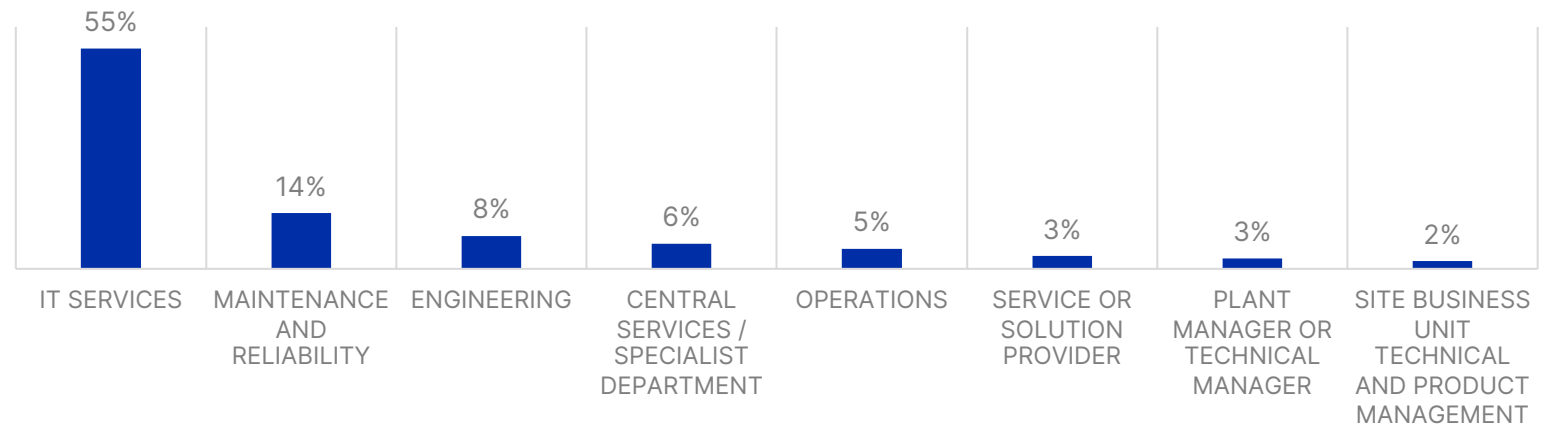
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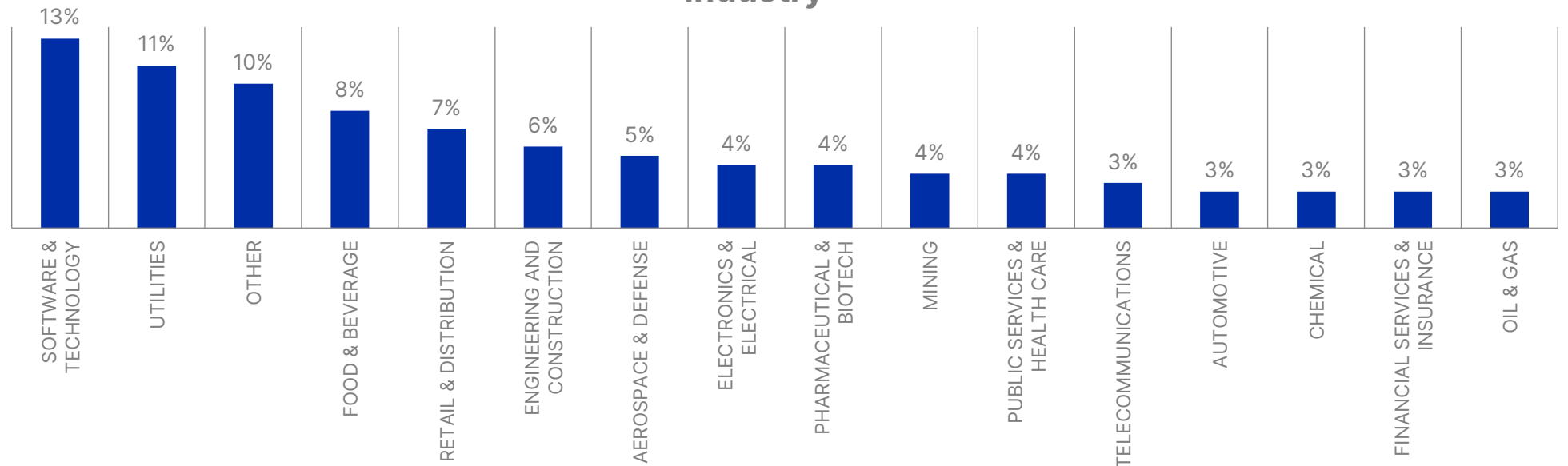
The participants were asked about their enterprise asset management plans and the strategies being implemented.

They were also asked about their organizational roles and the specific market sector in which their organizations operated.

Role



Industry





Elevating EAM in the Digital Age



DRIVERS

- Data is complex, scattered, comes from multiple sources in different forms, and is difficult to normalize and report (49%)
- Importance of managing asset life cycles, reliability, and their impact on the bottom line of an organization (49%)
- Digitalization and IoT technologies have increased the potential for improved asset management and visibility (47%)
- Predict asset downtime and breakdowns that could impact the production or supply chain performance (42%)



ACTIONS

- Develop end-to-end near real-time visibility across the enterprise assets to drive efficiencies leveraging analytics approaches that can help optimize business processes and anticipate operational bottlenecks (65%)
- Ensure uniformity, consistency, and quality of asset management data to determine production and design risk (64%)
- Effectively capture real-time tracking and visibility of all assets across the enterprise to draw insights into costs and utilization (59%)
- Leverage digital and IoT technologies to improve asset management and visibility (35%)



REQUIREMENTS

- Ability to assess asset risk and criticality (72%)
- Receive recommendations to improve asset uptime and predict failures (71%)
- Collect real-time sensor data from connected assets (70%)
- Optimize maintenance execution by providing job plans in both operational and EHS context (70%)
- Review predictive analysis to plan maintenance (65%)
- The ability for maintenance technicians to work remotely (59%)



TECHNOLOGIES*

- Real-time asset tracking (31%)
- Enterprise management platforms (28%)
- Labor management systems (28%)
- Data integration and management tools (27%)
- Reliability centered maintenance Tools (26%)
- Artificial intelligence & machine learning (26%)
- Robotic process automation (25%)
- Asset condition monitoring and sensors (25%)
- Edge computing & analytics (25%)
- Mobility solutions (24%)

* Within 6-24 months

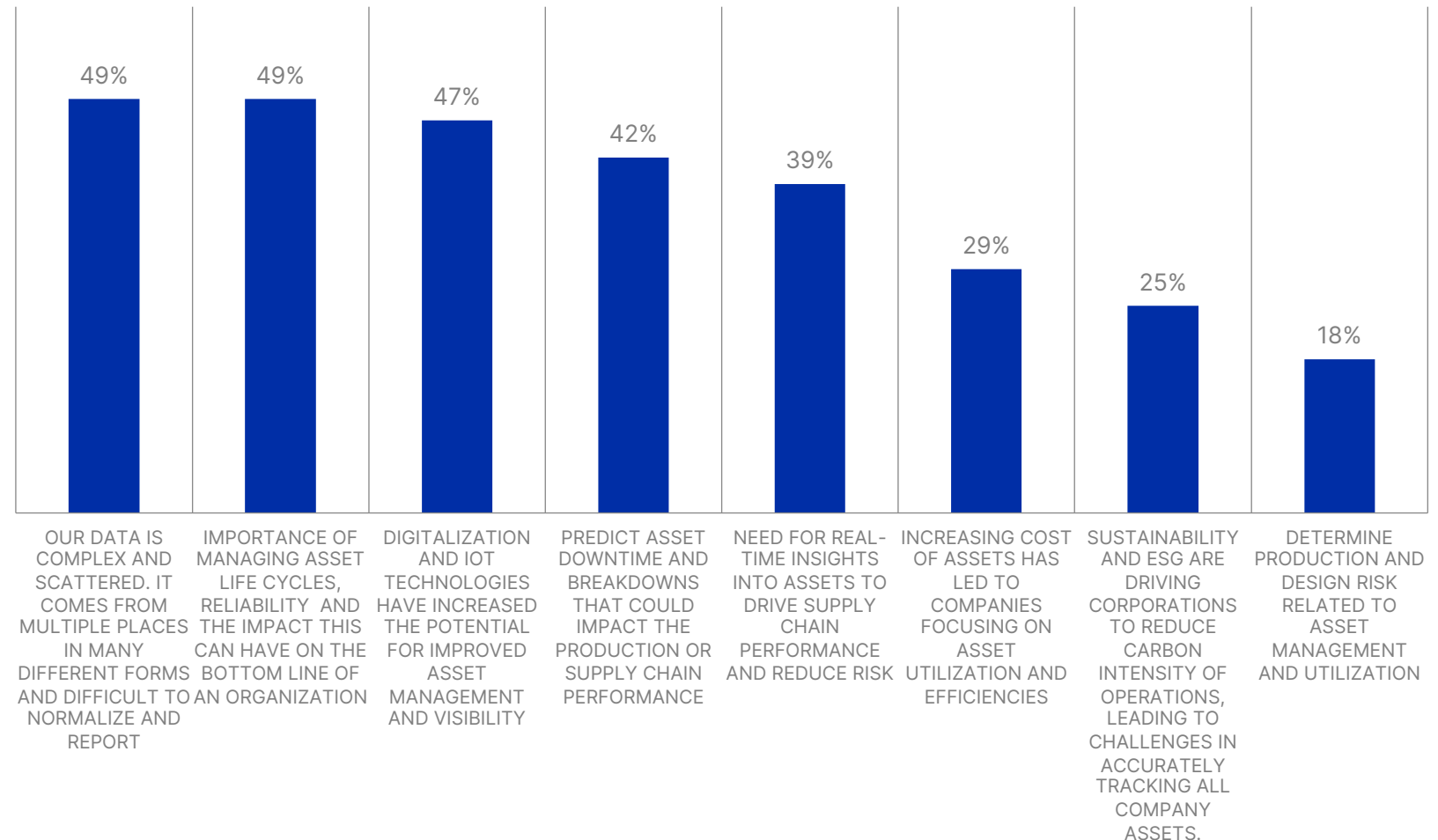
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The top three factors driving asset management are the challenges posed by complex and diverse data resulting from legacy systems, the direct impact of asset performance on company financial performance, and the opportunities presented by emerging technologies such as the Internet of Things (IoT).

These recurring themes highlight the significance of data in predictive and prescriptive maintenance, the need to connect asset management with financial outcomes, and the advancements in efficiency and performance brought about by IoT, data analytics, and AI/ML.

Drivers Impacting Decisions Related to Exploring the Future of Enterprise Asset Management



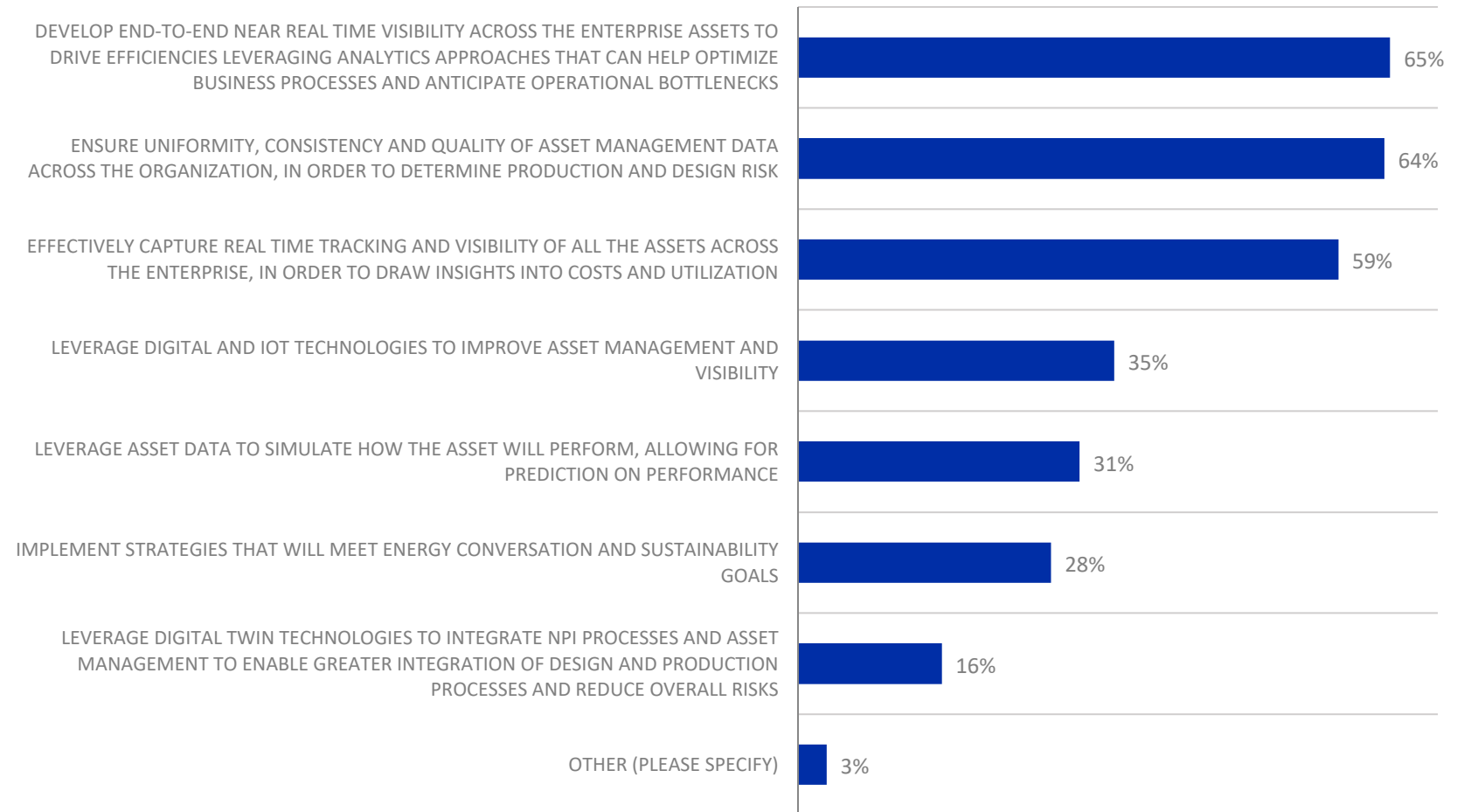
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In response to the drivers, companies are developing asset management strategies that prioritize end-to-end asset visibility, consistent and high-quality asset management data, and real-time asset tracking for insights into costs and utilization.

However, these strategies rely on a robust cloud strategy to be effective. Organizations must move away from the traditional on-premise deployment models and leverage the cloud and the benefits it offers such as increased data storage capacity, enhanced security measures, and seamless integration with other applications.

Strategies that are Being Prioritized to Address Top Drivers



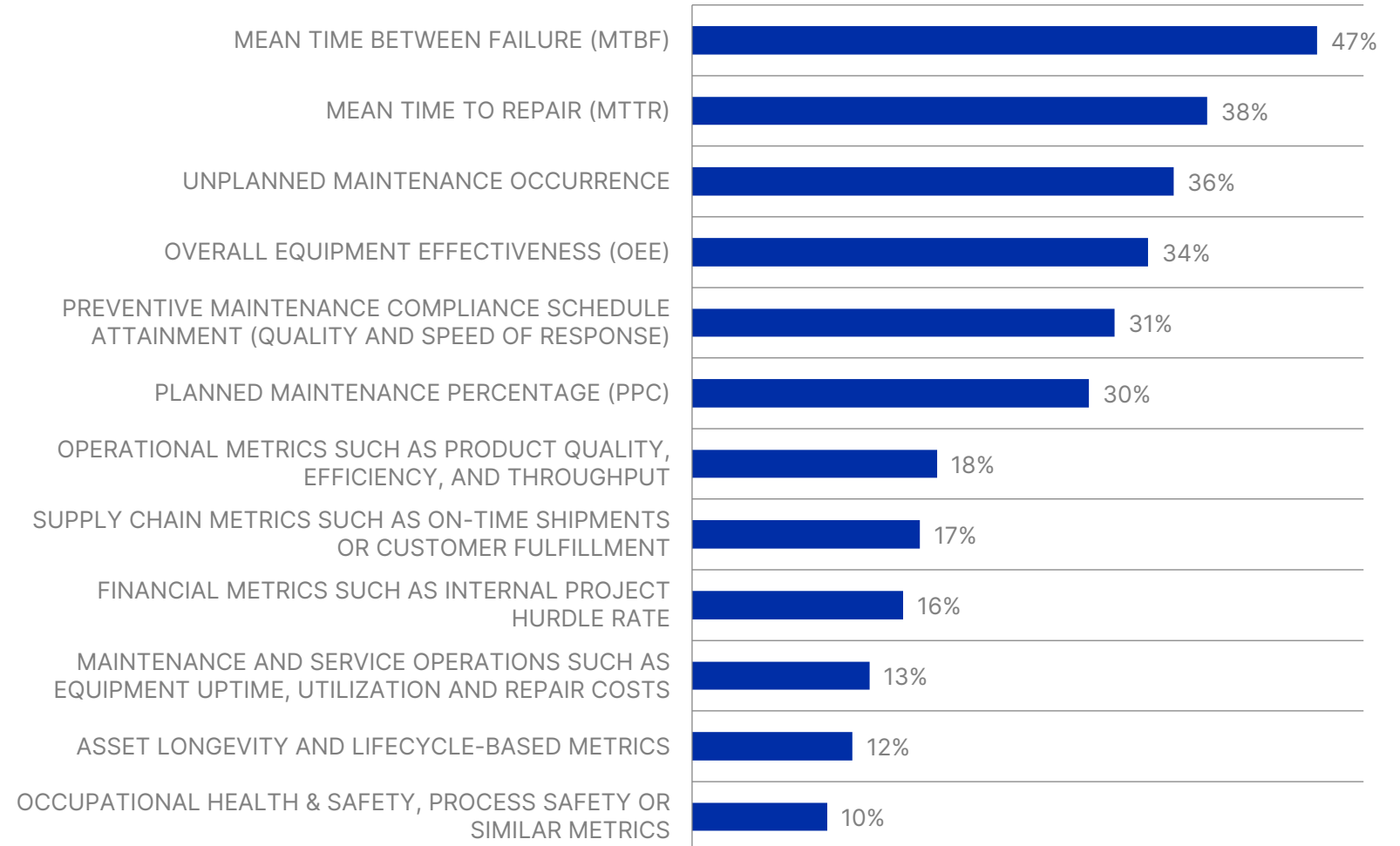
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Commonly used metrics for asset performance measurement are mean time between failure (MTBF), mean time to repair (MTTR), unplanned maintenance, and overall equipment effectiveness (OEE).

However, maintenance and reliability leaders aiming to secure support and investment from executives need to connect these operational metrics to the company's financial performance. For instance, in one notable example, a maintenance team demonstrated that a 10% improvement in OEE resulted in a direct profit increase of \$9.3 million.

Metrics Used for Asset Performance Measurement



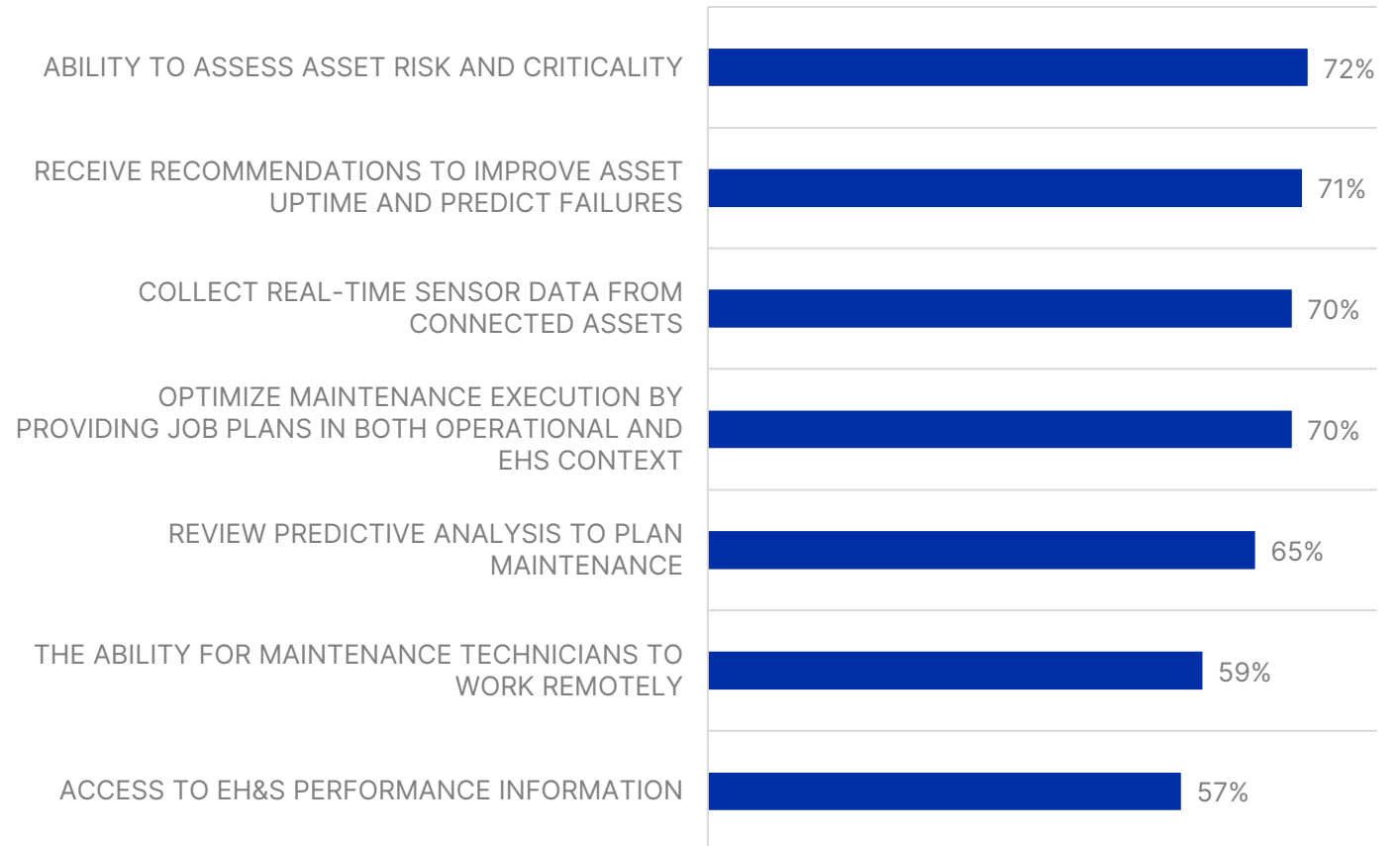
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To implement the strategies mentioned earlier, certain functional competencies are necessary. According to respondents, these include the ability to assess asset risk and criticality, receive maintenance recommendations, and collect real-time sensor data from assets.

To effectively carry out predictive maintenance, scheduling work before a failure occurs, an organization must prioritize assets based on criticality, trigger automated workflows using real-time data from connected machines, and sequence interventions in a manner that maximizes asset uptime across the enterprise.

Important or Very Important Functional Requirements



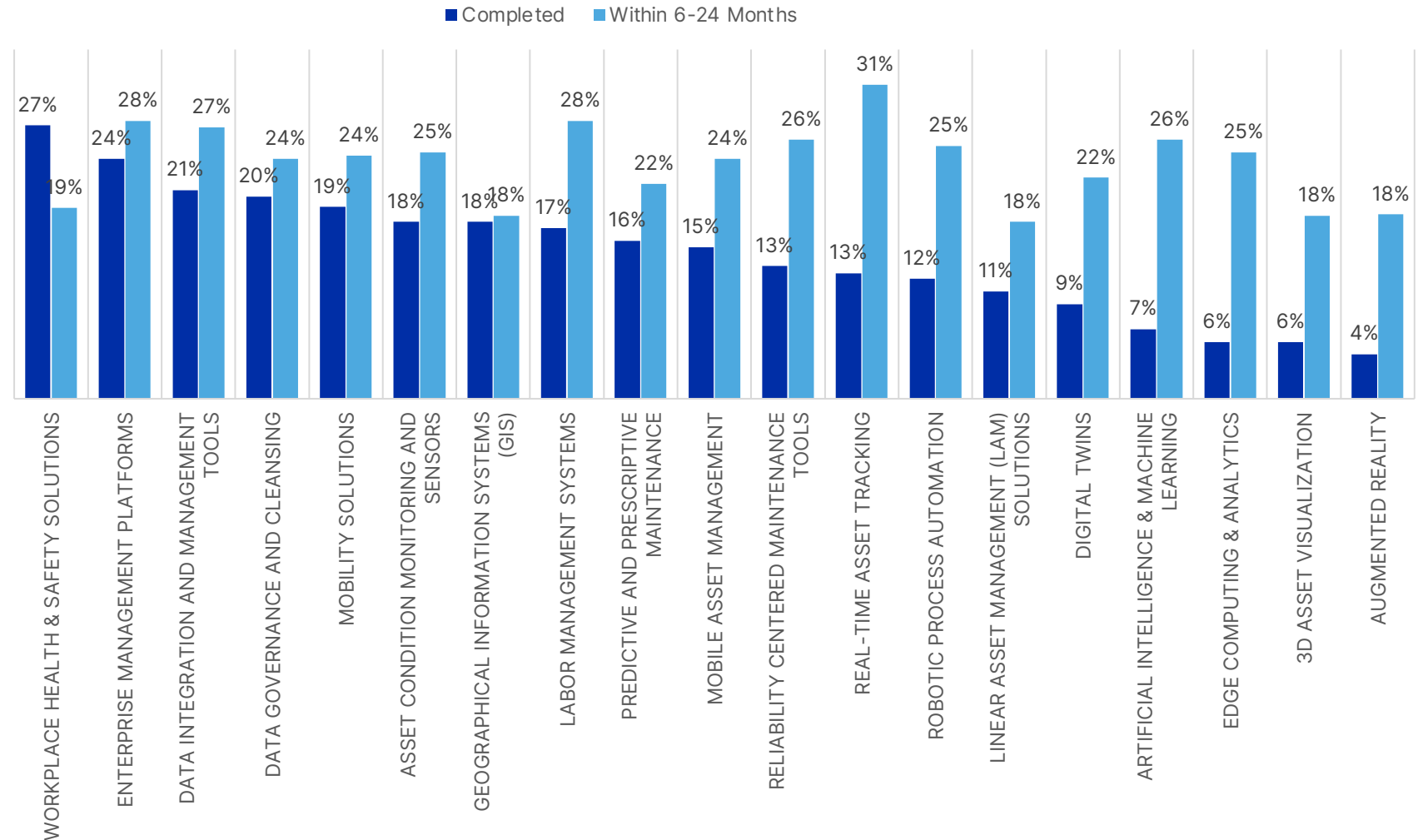
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Not surprisingly, atop the list of EAM technologies currently deployed by respondents are mature tools in workplace health and safety, enterprise management platforms, and data integration and management. On the near- and mid-term horizons, companies are planning investments in real-time asset tracking, AI/ML, and reliability centered maintenance tools.

To facilitate future investment, it is recommended to establish an emerging technologies lab involving LOB and IT stakeholders to develop and promote a pipeline of automation use cases.

State of EAM Technology Adoption



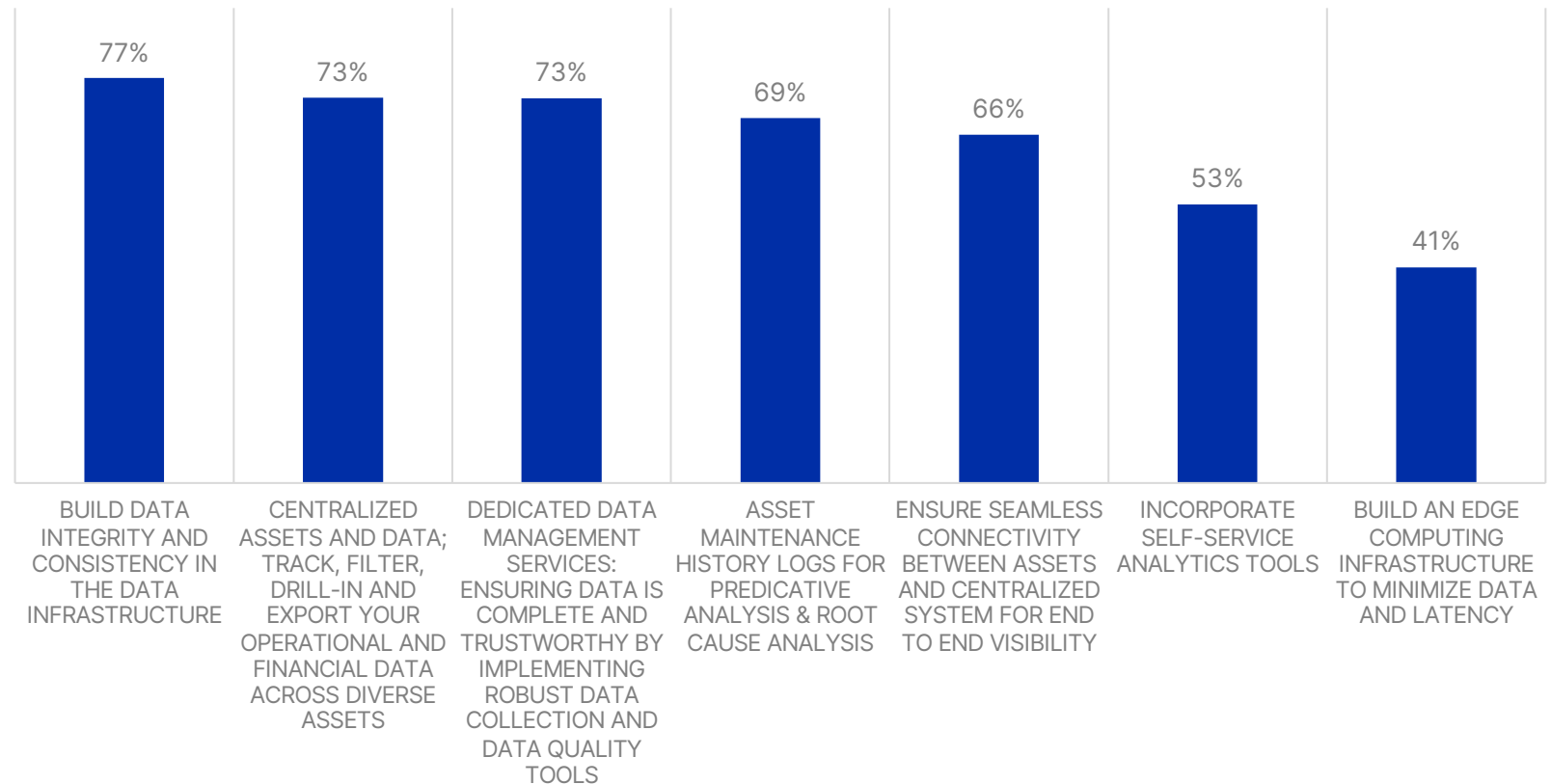
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If you break down the various EAM technologies into their core capabilities, there are a few that were deemed most important by respondents: data integrity and consistency in the data infrastructure, centralized assets and data, and dedicated data management services.

These capabilities highlight the importance of effective data management in any EAM strategy, which requires reliable cloud-based tools and processes for various tasks such as capturing, storing, cleaning, updating, analyzing, and integrating asset and related data in a centralized repository. Without these robust data management tools and processes, an EAM strategy is likely to fail.

Important or Very Important Asset Management Solution Capabilities



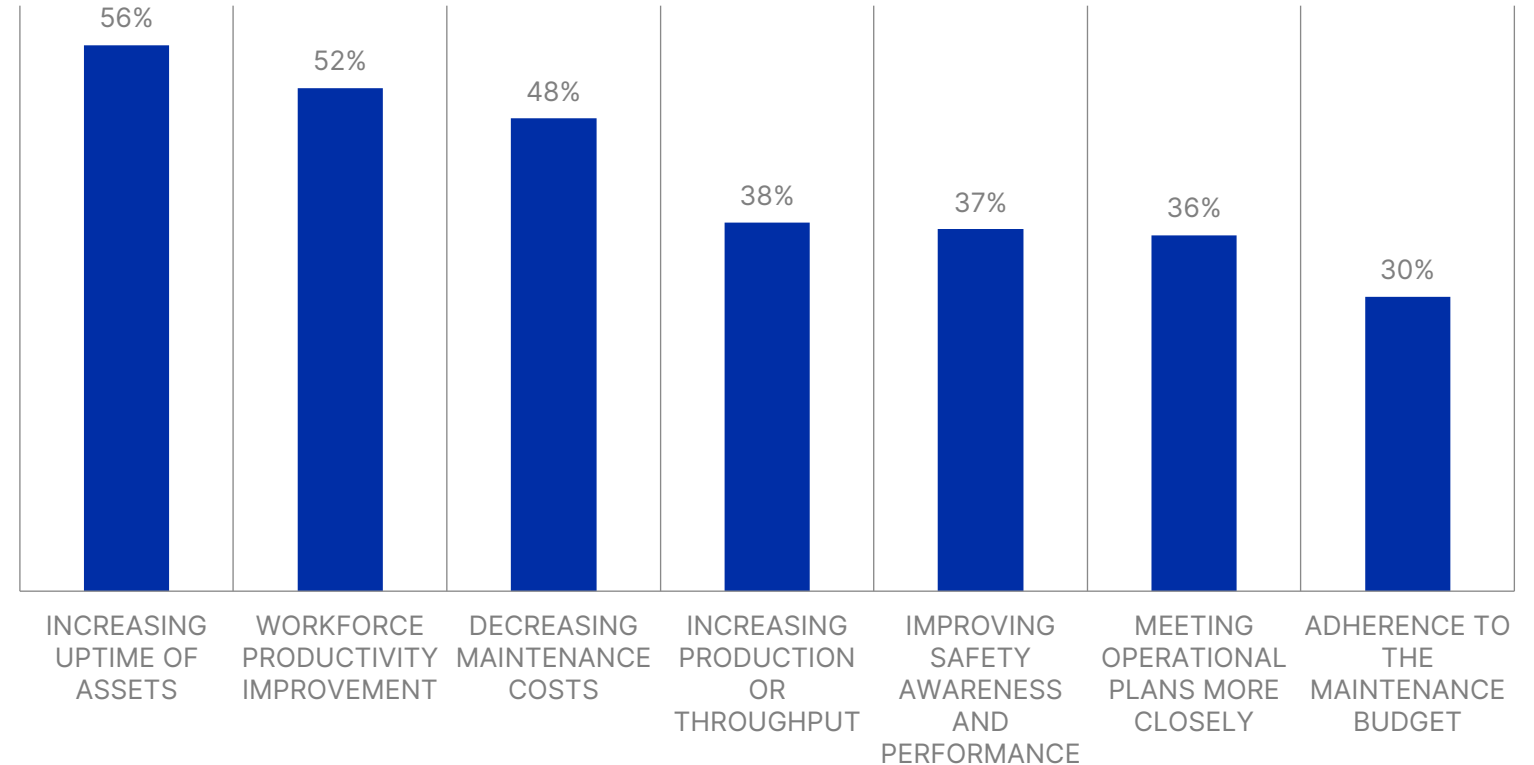
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To make the case for investment in asset management tools and programs, companies are leaning on traditional metrics like asset uptime, workforce productivity, and maintenance costs.

However, to be successful, maintenance leaders should collaborate with corporate stakeholders to demonstrate how maintenance operations contribute to the overall financial performance of the company. This involves identifying operational strategies that directly impact both revenue generation and cost reduction.

Justification for Investment In an Asset Management Program



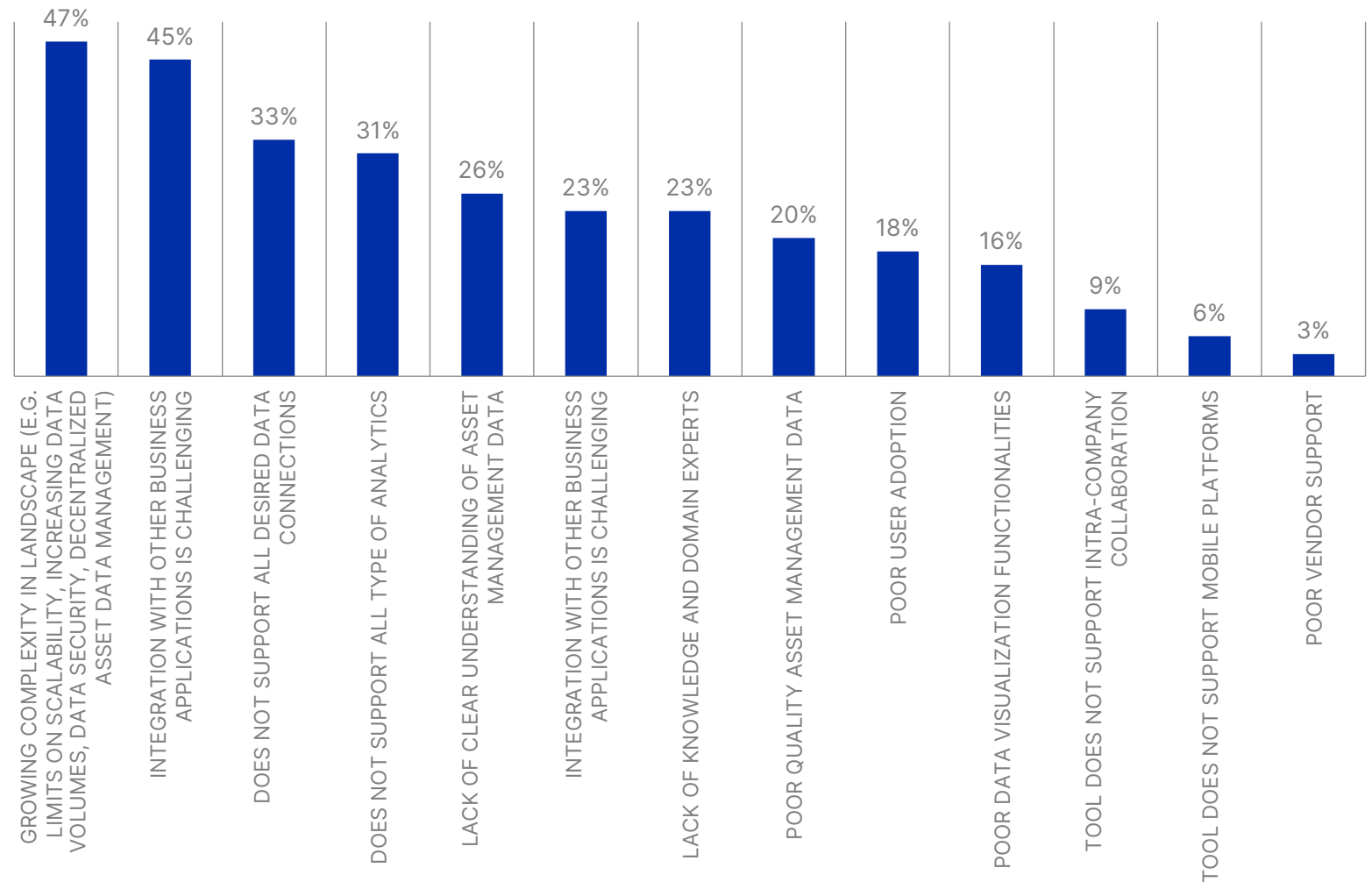
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Respondents identified two top challenges with existing EAM tools — the struggle to adapt and scale with increasing business complexities, and the difficulty in integrating these tools with other business applications.

However, these difficulties can be addressed through a cloud-based deployment strategy. The cloud offers companies the flexibility to expand and adapt to changes in their supply base and other disruptions in the asset lifecycle. Additionally, integrations are easier in the cloud. Supply chain systems integration is crucial for analyzing asset performance in relation to supply chain logistics and productivity.

Key Challenges with Current Enterprise Asset Management Tools



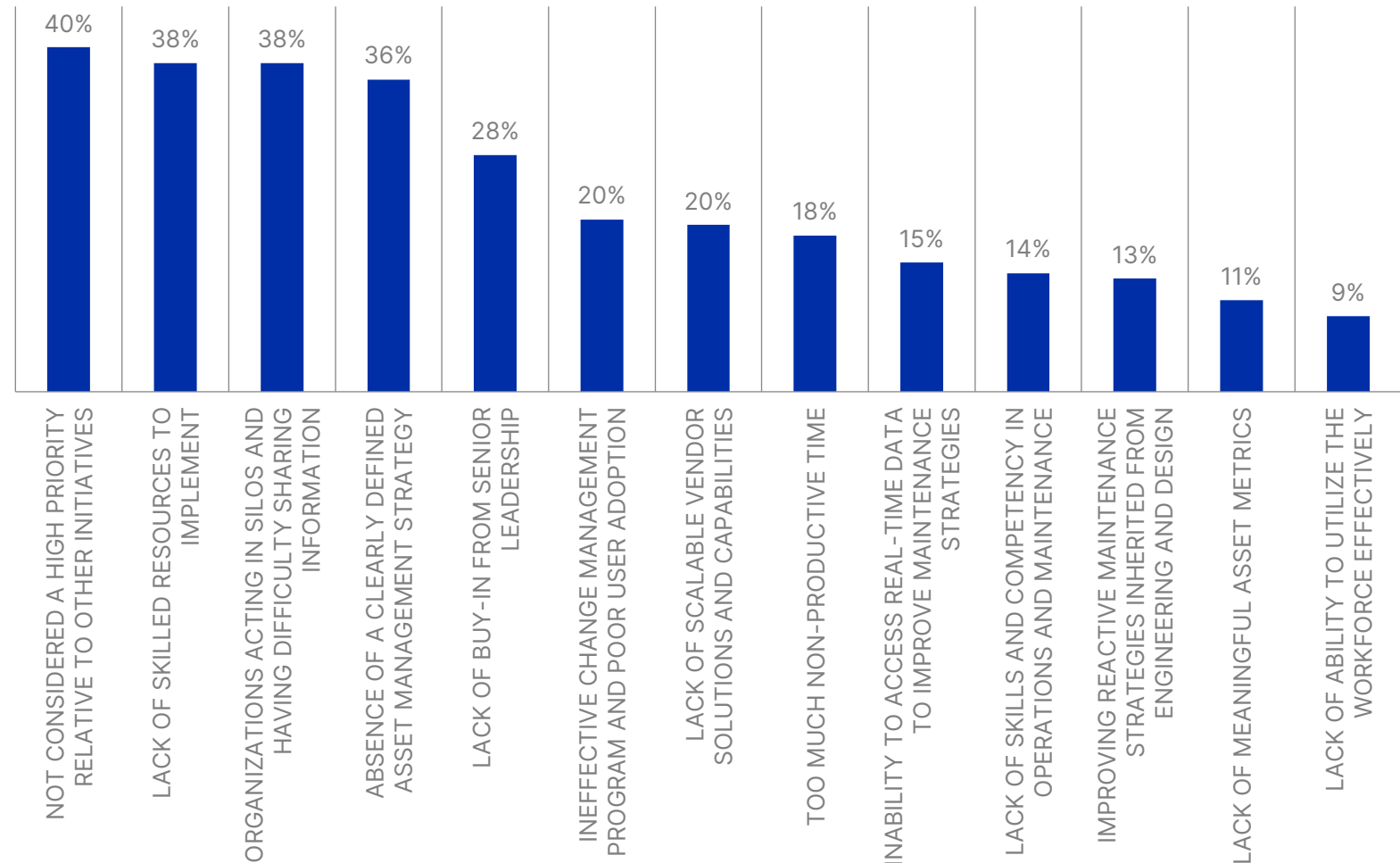
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Companies face several obstacles when implementing EAM solutions. These challenges include the lower priority given to EAM compared to other initiatives, lack of skilled resources for implementation, organizational silos, and the absence of a well-defined asset management strategy.

Companies should develop a comprehensive strategy that includes people, processes, and technologies. This strategy should be developed with key stakeholders from IT, maintenance, and the corporate level. It is also important to underscore the impact of asset performance on revenue, profit, and customer experience.

Key Obstacles to Implementing Enterprise Asset Management Solutions



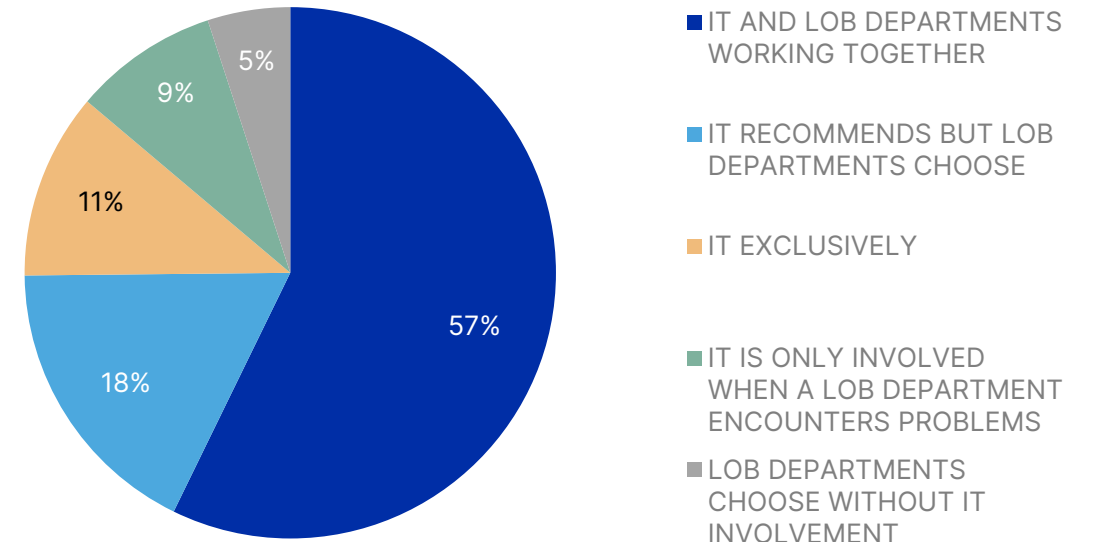
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Companies are experiencing advantages by involving both Line of Business (LOB) and IT departments in making decisions regarding asset management solutions. However, this collaboration should not be limited to internal departments. It should also extend to include Original Equipment Manufacturers (OEMs), component suppliers, operators, and service providers. This broader collaboration, referred to as "asset collaboration," aims to optimize Enterprise Asset Management (EAM) by facilitating the sharing of information and coordination of processes among all stakeholders involved in managing assets.

The primary objective of asset collaboration is to align the efforts of all participants in the asset ecosystem. This alignment ensures efficient and effective utilization of assets, minimizes downtime, reduces commissioning and maintenance costs, and enhances overall operational performance.

Which Group Makes Asset Management Solution Decisions?



THANK YOU

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