



INSIGHTS FROM THE VERDANTIX VVD STUDY

THE FINANCIAL AND STRATEGIC BENEFITS OF UPTIMEAI FOR INDUSTRIAL OPERATIONS

uptimeai.com



EXECUTIVE SUMMARY

Industrial firms are prioritizing digital initiatives that boost asset uptime, achieve safer operations and optimize output. According to Verdantix's 2026 Global Corporate Survey, 71% of firms plan to increase spending on improving asset uptime and availability over the next 12 months. Yet too many of these initiatives will stall as promising pilots that were never built for production scale. The result is fragmented systems, siloed data and continued reliance on experts to manually connect the dots.

Success depends on targeting problems with real operational impact, deploying solutions that scale across sites, and delivering ROI that is real, measurable and tied directly to core business challenges. UptimeAI, an industrial AI provider taking an agent-first approach to APM, was evaluated through the Verdantix Verified Value Delivery (VVD) methodology. The VVD study is grounded in expert analysis with ROI validated through interviews with five UptimeAI customers.

For a model \$200M-revenue manufacturing site, UptimeAI delivers a 197% three-year ROI, an 11-month break-even point, and \$0.76M in net present value against. These gains are driven primarily by failure prediction that avoids major breakdowns, along with time savings in alert management, root cause analysis, and maintenance data integration. ROI grows towards 250% with scaling efficiencies as customers reach enterprise-wide deployment.

Beyond the financials, customers gain accelerated diagnoses, fewer false alerts, greater operational resilience, and reduced reliance on individual expertise.

ABOUT VERDANTIX Verdantix is an independent research and advisory firm that serves a global client base consisting of the world's most innovative corporations, technology and services vendors, and investors. Our insights and analysis form a foundation of the most granular data available in the marketplaces we serve. This allows us to make highly accurate far-reaching forecasts and big-picture predictions that business leaders depend on when they are setting out to reach their most important goals. [verdantix.com](https://www.verdantix.com)

MARKET INSIGHTS

Improved diagnosis and failure prevention is viewed as a major lever to improve operational excellence with 71% of firms planning to boost spending on improving asset uptime and availability in the next 12 months.*

To what extent are the following initiatives a priority for your firm over the next 12 months?

HIGH PRIORITY

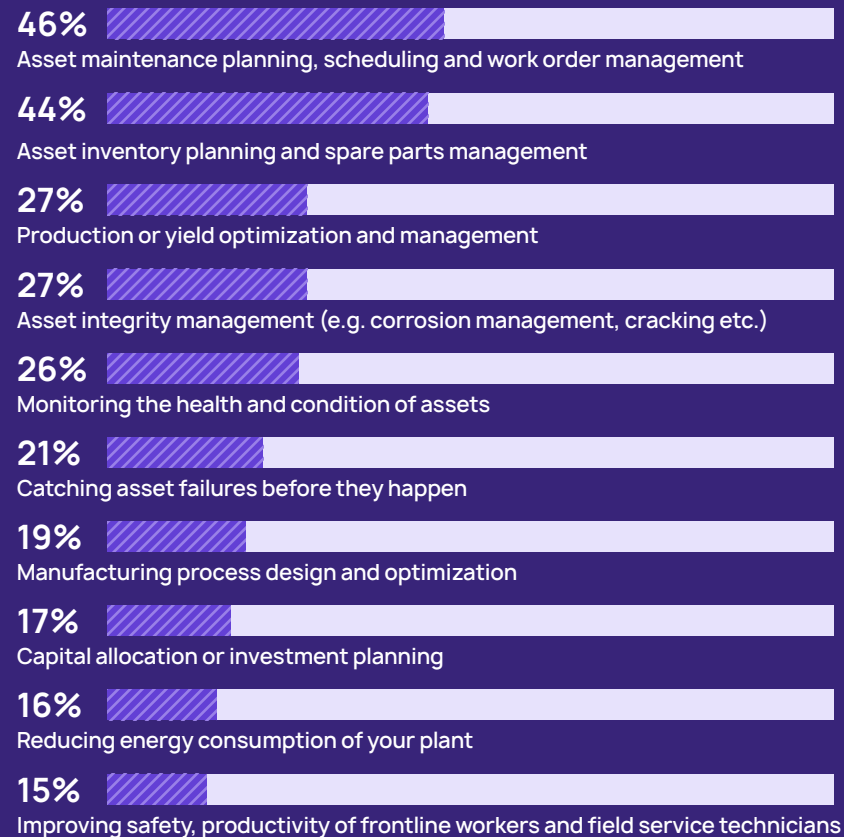


*Source: Verdantix 2026 Global Corporate Survey, N=333

Asset Performance Management (APM), reliability, and predictive analytics are amongst the most common use cases for commercial software in industrial operations.

Which of the following best describes your firm's approach to managing the following activities at your firm?

COMMERCIAL SOFTWARE USED



MARKET INSIGHTS

Difficulty in measuring ROI, insufficient in-house knowledge and poor data quality limit the success of industrial AI analytics projects

85%

of firms find that the lack of maturity of existing commercial AI analytics solutions or the difficulty in measuring the ROI of solutions is a significant or very significant barrier to the success of AI analytics projects

Sources: Verdantix Global Corporate Survey 2026: Industrial Transformation Budgets, Priorities And Tech Preferences | N=333

Verdantix Global Corporate Survey 2025: AI Budgets, Priorities And Tech Preferences | N=95

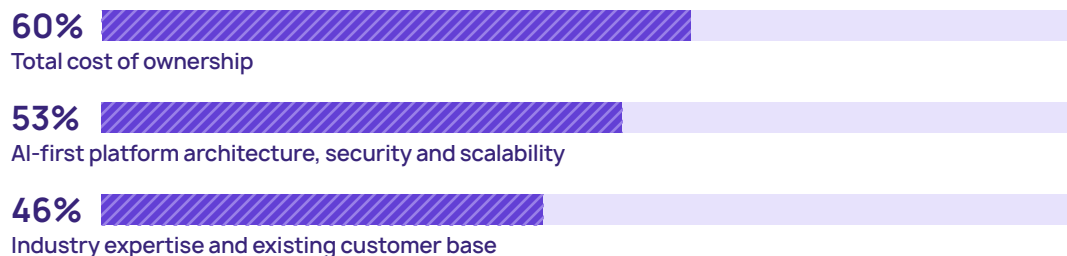
How significant are the following barriers in impacting the success of your industrial AI analytics projects?

VERY SIGNIFICANT & SIGNIFICANT



When selecting AI-enabled software, how important are the following criteria in terms of influencing your purchase decision?

HIGHEST PRIORITY & HIGH PRIORITY

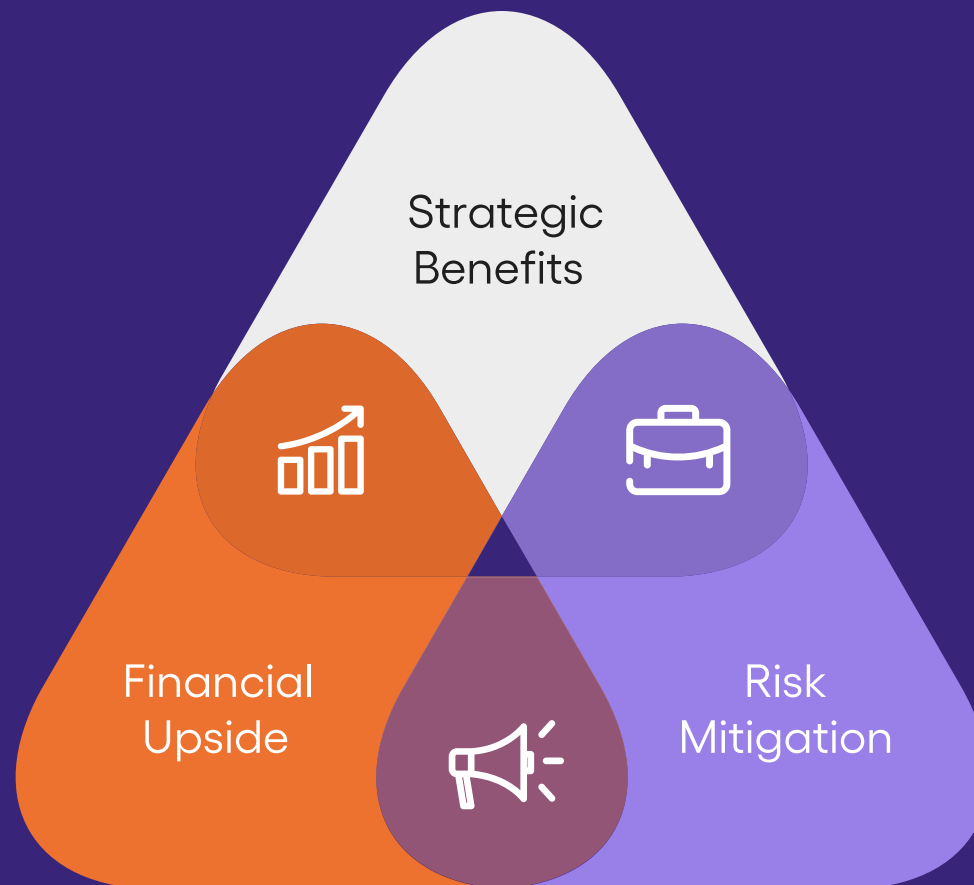


Notes: Top three responses selected from survey results; AI Global Corporate Survey is filtered to Manufacturing respondents.

Industrial firms selecting AI-enabled software are sensitive to total cost of ownership and prioritize AI-first architecture, security, and scalability, reflecting a preference for faster time-to-value solutions. Further, the prioritization of industry expertise and existing customer bases underscores the importance of vendor legitimacy and verified claims in the industrial space. Firms are increasingly adopting lightweight tools with short value horizons that use existing data to surface analysis and reduce in-house talent demands.

WHAT IS VVD?

VVD is a proprietary digital project evaluation methodology which provides prospective buyers with a fact-based assessment of the financial upside and strategic benefits of a digital project.



The VVD results present a composite view across 5 customer interviews.

Industries represented: **Oil & Gas, Cement, Power Generation, Renewables**

Average customer revenue: **\$7.66B USD**

Average employee count: **17k**

Roles interviewed: **Head of Digital Transformation, Senior Corporate Process Engineer, General Manager, Senior Manager, Project Head & Reliability SME**

VERDANTIX MODELED THE FINANCIAL IMPACT OF UPTIMEAI.

The following results were calculated for a model organization based in the United States, beginning with a single site implementation at a site with 150 employees and \$200M revenue. The calculation assumes a 12-14 week implementation timeline, a starting OEE of 69.5%, and starting asset availability of 85.5%.

197%

Return on Investment (ROI)
over 3 years

\$1.41M

Total Benefits
over 3 years

\$0.76M

Net Present Value (NPV)
over 3 years

11 MONTHS

Break-even Point

Benefit Breakdown:

Cost savings account for 89% of financial benefits, reducing operational expenses through enhanced maintenance and failure prediction.



Asset downtime reduction



Reduction in spare parts procurement



Throughput increase and enhanced efficiency

Productivity gains account for the remaining 11% of benefits, accelerating or avoiding repetitive and time-consuming tasks, including via AI-enablement.



Faster root cause diagnosis with Root Cause Agent

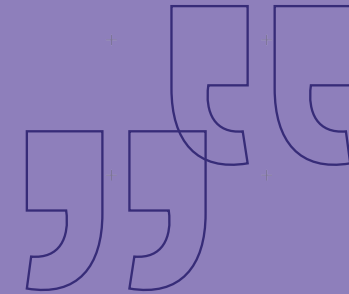


Fewer, prioritized alerts for quicker alert response



Reduced manual data management

ROI GROWS TO 250% WHEN UPTIMEAI IS DEPLOYED ENTERPRISE WIDE.

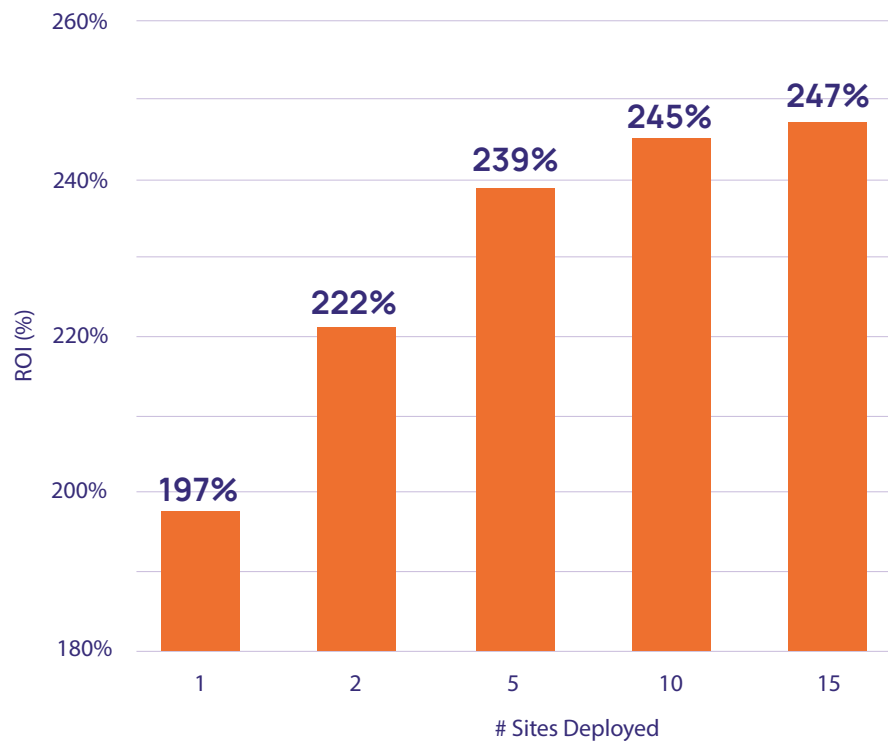


The maintainability and predictability of UptimeAI enabled us to scale the solution.

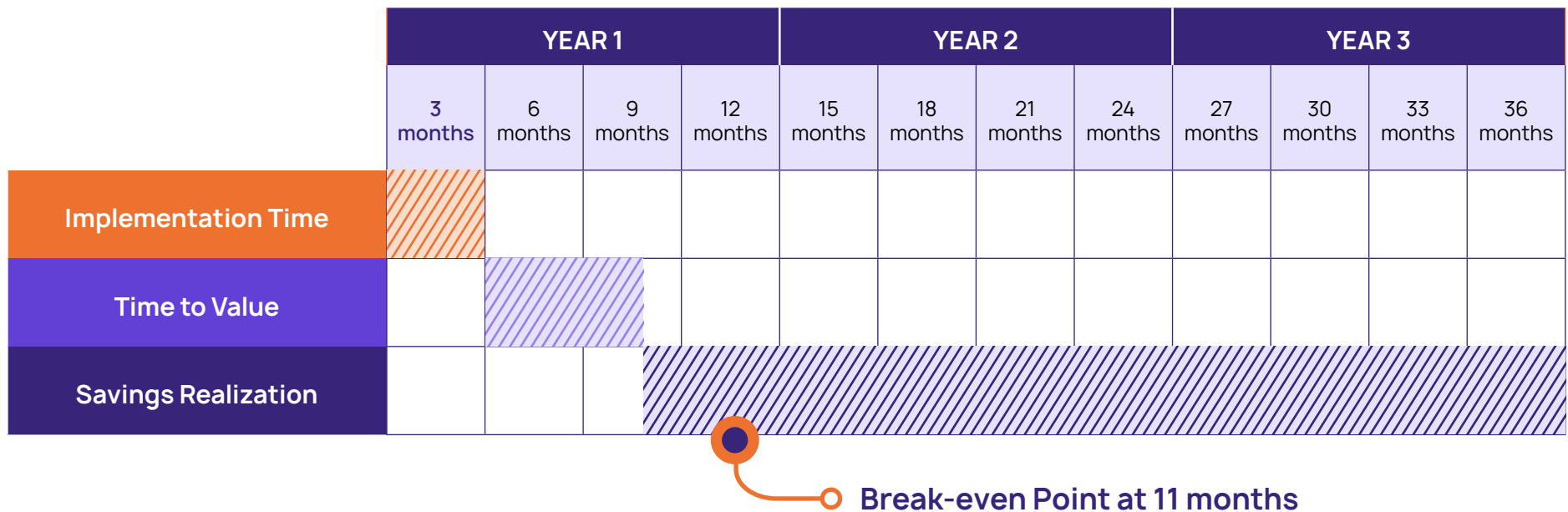
- Head of Digital Transformation,
Cement

The user interface is really easy to understand and use. The four-hour training is enough to get the team going.

- Senior Corporate Process
Engineer, Manufacturing



ON AGGREGATE, CUSTOMERS BEGIN REALIZING VALUE AT MONTH 8, INVESTMENT RECOUPED BY MONTH 11.



We had 4 critical alerts in first 6 months of the pilot, when we were very conscious of the value to justify further investment in the solution, and this recouped the cost [of the investment].

- Head of Digital Transformation, Cement Manufacturer

BENEFITS GO BEYOND THE BALANCE SHEET.

Verdantix' interviews with UptimeAI customers highlighted strategic benefits in addition to financial gains.

Data-driven intelligence

Ability to access and utilize more data enabling intelligent decision-making



Improved failure prediction accuracy



Better knowledge retrieval through RootyAI



Easily access enhanced maintenance and asset records

Proactive approach

Shift from a reactive to a proactive maintenance approach



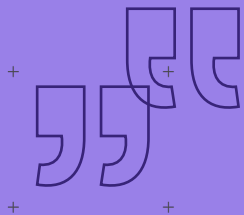
Optimized maintenance intervals leading to fewer corrective actions



Increased scheduling stability and resource efficiency



Reduced dependency on individual expertise



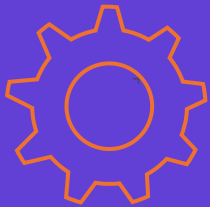
"All our info is pooled into one area now... It's eliminated the need for constant in-person updates."

- Senior Corporate Process Engineer, Manufacturing

UPTIMEAI MITIGATES THE RISKS ASSOCIATED WITH DIGITAL PROJECT IMPLEMENTATION

Risk	Impact Consequence	Likelihood	Mitigation: UptimeAI Solution Impact	Likelihood (/w Uptime)
Limited Adoption & Change Management	Limited user adoption including lack of training / lack of engagement with training lowers buy-in and hinders solution effectiveness, applicable to any point in the system lifetime when new staff are onboarded. Likewise poor integration reduces tool utilization, causing inefficiencies, disruptions, dissatisfaction, and sunk costs including the onboarding of new staff	HIGH	Lightweight solution with fast customer support removes onboarding blockers and keeps teams engaged. Short training sessions + follow-up Q&A + ongoing feedback loops as well as UptimeAI-driven continuous improvement forums with customer groups improve proficiency and drive long-term adoption	MEDIUM
Poor Integration Into Existing Tech Ecosystem	Weak integration leads to inefficiencies, poor data mapping, and siloed systems, increasing ecosystem complexity	HIGH	Rapid integrations via low-code setup, reusable libraries, guided delivery, and partner accelerators (e.g., Yokogawa). API-based connectors (incl. Seeq) reduce manual work and align the solution with existing workflows	MEDIUM
Data Security and Privacy Concerns	Inadequate security exposes sensitive data, creating significant risks for firms, staff, and clients	HIGH	UptimeAI employs a robust defense-in-depth security architecture, combining strong encryption, least-privilege access controls, continuous monitoring, secure network design, and tenant-isolated deployments. The platform aligns with industry-recognized standards (e.g., ISO, SOC 2)	LOW
Incomplete Data Collection and Quality Management	Large, varied datasets overwhelm non-technical users; failure to aggregate or ensure data quality restricts decision-useful information	MEDIUM	UptimeAI helps clean and validate data before deployment, improving signal reliability and alert accuracy. Built-in data checks reduce manual verification and prevent confidence loss from poor-quality inputs	LOW
AI Data Inaccuracy, Out-of-date Models and Related Issues	AI features may be too generic (not tailored to sector specific scenarios), cause data inaccuracies or hallucinate, reducing data quality	MEDIUM	Models are reviewed, validated, and tested against historical scenarios before rollout to ensure accuracy, and updated over time as required	LOW

AT UPTIMEAI, CUSTOMER SUCCESS IS A LIFELONG PARTNERSHIP. **WE DON'T IMPLEMENT AND WALK AWAY.**



“UptimeAI are always ready to absorb customer feedback and implement new enhancements based on needs.”

- General Manager, Utilities & Infrastructure

“The customer service has been good. Whenever I send a question, within an hour I have an answer or an update. The successes there have been awesome.” - Senior Corporate Process Engineer, Manufacturing



“We have a weekly connect with the plant teams. These dedicated forums and resources driven by UptimeAI support with site buy-in and allows feedback opportunities.” - Head of Digital Transformation, Cement

WHAT'S STANDING BETWEEN YOU AND 197% ROI?

For 85% of industrial firms, measuring the ROI of AI & analytics solutions is a barrier to moving from pilot to enterprise-scale solution.

Verdantix is helping to change that. Their Verified Value Delivery methodology maps every value-generating component of UptimeAI's software to a clear, auditable calculation — removing the ambiguity that kills AI business cases. For a model \$200M revenue manufacturing site, that's 197% three-year ROI, an 11-month break-even, and returns growing to 250% at enterprise scale. These aren't empty promises, but real results validated firsthand against 5 UptimeAI customers.

Your AI project shouldn't stall because ROI is hard to prove. With UptimeAI, it doesn't have to.

[LEARN HOW](#)