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5x5 series: Insights and actions

The impact of integrating Al into ER&I initiatives

Unraveling insights into ER&I challenges and actions to consider involving AI for process enhancement and solution discovery

5 insights you should know		5 actions you can take
Unexpected asset breakdowns may directly or indirectly jeopardize the safety of an organization's processes by causing accidents, injuries, or hazardous material exposure.	1	Utilize predictive maintenance (PdM) capabilities powered by AI to analyze data from diverse sources and enable the prediction and prevention of equipment failure, further averting potentially dangerous outages and/or harmful environmental impacts.
Inadequate strategies for monitoring workplace safety heightens the chances of unauthorized activity going undetected, potentially making organizations susceptible to workplace accidents, legal liability, and reputational damage.	2	Leverage computer vision technologies to increase insight into safety risk drivers and identify potential hazards in the workplace, in some cases with up to 80% accuracy . This enables the triggering of alerts for remediation to a facility's safety system.
An organization's inability to proactively detect fraud, waste, corruption, and abuse could cost the entity millions of dollars and tarnish its reputation among customers and stakeholders.	3	Implement AI-enabled monitoring tools to enable real-time visibility into operations and employee compliance. This could facilitate a flexible, scalable approach to effectively monitoring misconduct and also preventing the occurrence of significant financial losses.
Manual document review is expensive, time-consuming, and prone to human error. The traditional, non-Al-enabled document review process may be up to 90% more costly for organizations compared to Al-enabled methods.	4	Consider a customizable Generative AI solution that leverages several leading large language models (LLMs) geared to simplify and accelerate document review , which i both accurate and substantively less time-consuming.
Machines are often interconnected along the production chain. Thus, poor maintenance strategies—even for lower-priority assets—can potentially reduce a plant's overall productive capacity by 5 to 20 percent because of the bottleneck effect.	5	Explore the benefits that can be reaped from ultra-sonic inspection devices that possess AI sensory capabilities . These devices can predict and potentially prevent imminent maintenance failures, lowering organizations' risk of capacity losses.

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