

FROST & SULLIVAN
BEST PRACTICES



2026

GLOBAL AI-BASED
INDUSTRIAL SAFETY

**NEW PRODUCT
INNOVATION**

TRIOMOBIL

Best Practices Criteria for World-Class Performance

Frost & Sullivan applies a rigorous analytical process to evaluate multiple nominees for each recognition category before determining the final recognition recipient. The process involves a detailed evaluation of best practices criteria across two dimensions for each nominated company. Trio Mobil Inc. excels in many of the criteria in the AI-based industrial safety space.

RECOGNITION CRITERIA	
<i>Business Impact</i>	<i>Technology Leverage</i>
Financial Performance	Commitment to Innovation
Customer Acquisition	Commitment to Creativity
Operational Efficiency	Stage Gate Efficiency
Growth Potential	Commercialization
Human Capital	Application Diversity

The Transformation of the AI-Based Industrial Safety Industry

Industrial organizations globally continue to face persistent safety challenges despite decades of investment in compliance programs and traditional safety management systems. While overall recordable injury rates have declined, serious injuries and fatalities (SIF) have increased, exposing a fundamental limitation of lagging, incident-based safety metrics such as total recordable incident rate and lost time injury frequency rate. Safety bodies and environment, health, and safety (EHS) organizations increasingly show that SIF events follow different causal pathways than minor injuries, making them poorly predictable through historical reporting alone. At the same time, industrial environments are becoming more complex, characterized by mixed traffic, automation, robotics, and dynamic layouts that further increase exposure to low frequency but high severity risks, which traditional, manual safety approaches struggle to detect or prioritize in real time. Artificial intelligence (AI)-based industrial safety is emerging as a critical response to these challenges, enabling a shift from reactive compliance toward proactive, leading-indicator-driven risk management. Advanced computer vision, Internet of Things (IoT), and AI analytics can identify unsafe interactions, behavioral precursors, and structural risk patterns continuously, capabilities increasingly recognized as essential for effective SIF prevention. However, adoption barriers remain significant due to fragmented point solutions, inconsistent data quality, lack of real-time intervention, and difficulty scaling safety intelligence across global operations.

Industry sources and vendor positioning increasingly highlight the transition toward integrated safety intelligence platforms that combine AI vision, proximity detection, and real-time analytics to move beyond incident reporting toward continuous exposure monitoring and intervention. These industry-wide gaps underscore why safety leaders are moving beyond standalone tools toward integrated, intelligence-driven platforms that can quantify exposure, trigger real-time controls, and embed safety decision-making into daily operations across sites and regions.

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Principal Consultant, Industrial

United States, Trio Mobil Inc. (Trio Mobil) combines strong research and development roots in Istanbul, Türkiye, with an expanding global footprint across North America and Europe. The company’s SIF intelligence platform reflects this transition, enabling organizations to manage safety as a continuous, data-driven discipline rather than a reactive compliance function. Trio Mobil is a global technology company delivering AI and IoT-based solutions for industrial safety and operational risk management. The company pioneers an integrated, knowledge-based SIF prevention platform that combines multi-layer

sensing, proprietary AI, and safety science to enable proactive, real-time risk reduction across complex industrial environments. Trusted by multinational enterprises globally, Trio Mobil helps organizations move beyond reactive compliance toward scalable, leading-indicator-based safety performance.

Engineering an Integrated SIF Intelligence Platform

Trio Mobil establishes itself as a technology innovation leader by redefining how industrial safety is conceived, delivered, and scaled. Rather than approaching safety as a collection of isolated tools or reactive controls, the company has built a unified, AI-driven SIF prevention platform that fundamentally shifts the industry from lagging, incident-based management to proactive, exposure-based risk prevention. This platform grounded in safety science, advanced AI, and real-world operational data positions Trio Mobil not merely as a technology provider, but as a category shaper within AI-based industrial safety.

At the core of this innovation is a vertically integrated architecture that Trio Mobil designs, develops, and operates end-to-end. The company builds its own hardware, proprietary AI models, and cloud-based intelligence layer in-house, enabling tight coupling between perception, analytics, and real-time intervention. Recent product positioning highlights AI-powered safety intelligence frameworks that continuously monitor unsafe interactions such as forklift–pedestrian proximity, speeding, unsafe maneuvers, and behavioral risks, converting them into real-time alerts, risk scores, and actionable insights for operators and EHS teams.

This level of control allows Trio Mobil to deliver higher reliability in industrial environments than generic, non-industrialized AI approaches. By models trained and refined using proprietary industrial datasets drawn from millions of real interactions across thousands of sites, the platform is optimized for high-risk, high-variability conditions where accuracy is non-negotiable and false positives carry operational consequences.

A defining element of Trio Mobil's product innovation is its multi-layer safety architecture. Recognizing that industrial environments are inherently complex and cannot be safeguarded through a single detection method, the platform combines AI vision, ultra-wideband (UWB) proximity sensing, zone control, vehicle-to-vehicle awareness, and environmental signaling into a coordinated system, enhancing detection accuracy and ensuring reliable performance in dynamic, high-density industrial environments.

Each layer compensates for the limitations of the others, eliminating single points of failure and materially improving risk coverage. This architecture enables real-time interventions, including automated speed reduction where technically supported, zone-based control outputs, and visual / in-cab alerts, often within milliseconds, reducing kinetic energy and preventing incidents before harm occurs.

Beyond detection and control, Trio Mobil's innovation extends into the intelligence layer that sits above the hardware. The company embeds a proprietary SIF intelligence framework into its platform, informed by years of operational data and direct customer engagement. This framework identifies recurring structural risk patterns that account for the majority of high-severity incidents across sites. Unlike point solutions or vision-only systems, Trio Mobil's integrated architecture enables detection and real-time intervention workflows, bridging the gap between insight and action.

Solving the Hardest Safety Problems Across Complex Industrial Environments

Trio Mobil's technology innovation is distinguished by its depth and creative adaptability across a wide spectrum of industrial environments, risk profiles, and operational workflows. Rather than constraining innovation to a single safety use case, the company architects its platform to address the full complexity of modern industrial settings where mixed traffic, automation, human behavior, and dynamic layouts intersect. This breadth of application demonstrates a deep understanding of environmental causes of SIF, and translates this expertise into practical, real-world impact at scale.

The platform's strongest proof point is its coverage of high-kinetic-energy operations, including forklifts, cranes, automated guided vehicles, robotic cells, and loading dock environments. These contexts represent the most severe categories of industrial risk, where low incident frequency masks high potential severity. Trio Mobil applies the same core SIF prevention framework across these environments, enabling consistent detection, classification, and intervention regardless of asset type or site configuration. As industrial facilities evolve toward greater automation and mixed traffic flows, this ability to address human-to-machine and machine-to-machine interactions within a single platform underscores the creative foresight embedded in the solution design.

A defining hallmark of Trio Mobil's creative innovation is its expansion beyond conventional forklift-centric safety into adjacent and emerging risk domains. The platform extends seamlessly into robotic cells, yards, intersections, and loading docks, areas traditionally managed through manual procedures or disconnected systems. By applying AI-based detection and automation controls to these zones, the company addresses low-visibility, high-severity risks such as trailer departures, pedestrian exposure during side loading, and blind-spot collisions. This progression reflects a deliberate innovation philosophy: solving the most structurally difficult safety problems first, not merely those easiest to instrument.

Trio Mobil's creativity is further evidenced by its analytical approach to risk. Through large-scale analysis of real operational data, the company identified six recurring structural patterns that account for a significant share of forklift-related SIF exposure in analyzed environments. This abstraction of site-specific incidents into repeatable, cross-industry patterns allows the platform to generalize safety intelligence across geographies and customers. As a result, the system does not simply react to isolated incidents; it proactively highlights systemic design flaws that drive risk across entire networks of facilities.

The company's platform fuses inputs from mobile forklift-mounted cameras, fixed infrastructure cameras, UWB proximity devices, and even customers' existing network cameras where appropriate. This multi-source design reduces deployment friction while maximizing visibility, enabling customers to scale safety intelligence without requiring full infrastructure replacement. Trio Mobil's ability to combine measurable safety outcomes with a scalable, renewal-driven business model demonstrates how advanced AI can translate into sustained enterprise value, making safety not just a compliance requirement, but a strategic performance lever.

Turning Safety Intelligence into Measurable Enterprise Value

Trio Mobil demonstrates a strong ability to translate advanced technology innovation into scalable customer acquisition while delivering measurable operational efficiency for industrial enterprises. Its market traction is anchored in an enterprise-led adoption strategy, with a clear focus on large, complex organizations operating in high-risk industrial environments. By aligning its value proposition with board-level safety priorities such as SIF reduction, the company embeds itself within the strategic agendas of manufacturers, logistics providers, and global brand owners, accelerating adoption at site and corporate levels.

This enterprise orientation enables rapid global scaling. Trio Mobil solutions are deployed across thousands of sites in more than 65 countries, with over one million connected devices across its broader connected mobility and industrial IoT installed base, feeding into a unified safety intelligence platform. Such scale reflects strong operational discipline and the ability to deploy, standardize, and support complex technology environments across diverse geographies. Customers benefit from a consistent, unified system that allows exposure levels to be measured, compared, and managed across regions, rather than fragmented local solutions that undermine enterprise-wide visibility.

The strongest driver of customer acquisition remains tangible safety and operational outcomes. Trio Mobil customers have reported up to 90%+ reductions in measured high-risk exposure in selected mature deployments. Several large deployments have reported sustained accident-free periods after rollout, supported by continuous exposure measurement and intervention. These outcomes are not positioned

as theoretical benefits, but as operational results validated through continuous data collection and benchmarking. By converting safety into a quantified, leading-indicator-based discipline, the company enables customers to justify investment decisions through clear risk reduction and operational return on investment.

The platform’s exposure benchmarking and maturity-based prioritization model further reinforces client’s operational efficiency. Rather than overwhelming safety teams with undifferentiated incident data, Trio Mobil identifies which sites, assets, zones, or behaviors contribute disproportionately to overall risk. This targeted approach allows customers to focus on corrective actions where impact is highest, often resolving most of the exposure by addressing a small subset of recurring patterns, assets, or operational

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behaviors. The result is a more efficient allocation of safety resources, reducing operational disruption and administrative burden.

Trio Mobil’s commercialization model drives operational efficiency through continuous engagement rather than one-time deployment, supported by monthly customer cadences, dedicated customer success teams, and automated risk intelligence reports that ensure insights are actively reviewed and acted upon. This approach positions the company as an extension of customers’ EHS and operations teams,

while creating a virtuous feedback loop in which real-world operational insights directly inform platform enhancements. Innovation is sustained rather than episodic, with new AI models, risk scenarios, and detection capabilities continuously developed as additional data is collected and refined through algorithmic learning and direct customer feedback. Reinforced by regular interaction between customer success teams and site operators, this model ensures innovation remains grounded in real operational challenges, resulting in a future-ready platform that evolves alongside changing industrial environments and rising safety expectations.

Beyond safety, Trio Mobil delivers secondary efficiency gains by leveraging the same data foundation to generate utilization and productivity insights. Customers gain visibility into asset usage patterns, enabling improved fleet sizing, reduced idle equipment, and better workflow planning, often without additional hardware investment. While safety remains the primary adoption driver, these co-benefits strengthen the overall value proposition and reinforce renewal-driven customer relationships tied to long-term operational improvement.

Collectively, Trio Mobil’s approach to customer acquisition and operational efficiency demonstrates strong commercialization discipline. By coupling measurable safety impact with scalable deployment, continuous engagement, and operational insight, the company has built a replicable growth engine that converts advanced AI innovation into durable, enterprise-level value.

Scaling a Category-Defining Platform for Global Impact

Trio Mobil's commercialization strategy is built around a scalable, repeatable business model that aligns technology innovation with long-term enterprise value creation. Rather than relying on one-off hardware sales or fragmented deployments, the company has built a subscription-based engagement model that bundles hardware, software, connectivity, analytics, and customer success into a single lifecycle offering. This structure reinforces predictable revenue streams while tightly aligning Trio Mobil's financial performance with the sustained operational and safety outcomes achieved by its customers, particularly in high-risk industrial environments where continuity and reliability are essential.

The commercial viability of this model is evidenced by Trio Mobil's ability to scale globally across complex, multi-site customer organizations. Large deployments with multinational enterprises illustrate depth and repeatability of adoption. For example, implementations spanning dozens of facilities and hundreds of forklifts across multiple continents demonstrate that the platform can be operationalized consistently without customization-driven cost inflation or regional fragmentation. Customers benefit from a unified global system that enables centralized oversight while preserving local operational relevance, an important driver of renewal, expansion, and long-term contract value.

Recent company developments, including growth-stage funding and increased participation in global industrial and safety forums, indicate continued market validation and expansion of its AI-based industrial safety platform. From a growth perspective, Trio Mobil is well positioned to benefit from a structural shift in how industrial safety investments are prioritized. The market is increasingly moving away from lagging-indicator-based compliance metrics toward proactive, leading-indicator-driven risk management focused on SIF prevention. Trio Mobil's platform is purpose-built for this transition, providing real-time exposure measurement, benchmarking, and intervention capabilities that traditional tools cannot match. As enterprises elevate SIF prevention to a board-level priority issue, the company's value proposition becomes increasingly strategic rather than discretionary.

The company's growth potential is further reinforced by its broad applicability across high-volume, high-risk verticals such as automotive, heavy manufacturing, food and beverage, packaging, and logistics operations. These sectors combine scale, regulatory scrutiny, and operational complexity, favoring integrated platform-based solutions. By maintaining a consistent core platform while flexibly addressing site-specific risks, Trio Mobil can expand within existing customers through additional use cases, wider site coverage, and deeper integration into operational workflows, driving organic account expansion.

Financial resilience is strengthened by Trio Mobil's renewal-driven commercial model. Because customer relationships are structured around recurring engagements rather than upfront capital purchases, ongoing value delivery is essential. Continuous performance benchmarking and measurable reduction in high-severity exposure support renewals and long-term contracts. This dynamic creates a self-reinforcing feedback loop: sustained customer value drives renewals, renewals fund continued platform and innovation, and innovation further enhances customer outcomes.

Looking ahead, Trio Mobil's leadership in defining SIF prevention as a distinct, intelligence-driven category positioning it ahead of competitors focused on narrower functional features or commoditized hardware. With proprietary datasets, continuously evolving AI models, and a growing global installed base the

company is shaping market expectations around what “best-in-class” industrial safety performance entails. This combination of market foresight, scalable commercialization, and outcome-linked financial performance underpins Trio Mobil’s strong growth trajectory and reinforces its credibility as an industry leader.

Conclusion

Trio Mobil Inc. (Trio Mobil) stands out as a technology innovation leader by redefining industrial safety through an intelligence-driven serious injuries and fatalities prevention platform. Its unified platform integrates proprietary artificial intelligence (AI), vertically integrated engineering, and safety science into a scalable global solution. By enabling continuous monitoring of risk exposure, real-time intervention, and data-driven insights, the company is accelerating the shift toward proactive, leading indicator-based safety management. Trio Mobil’s ability to deliver measurable reductions in severe incidents across complex, high-risk environments demonstrates strong technical execution and enterprise value. Supported by a renewal-driven commercial model and global deployments, the company is transforming industrial safety into a continuously improving, intelligence-led discipline, positioning it as a clear leader in AI-based industrial safety.

Trio Mobil earns Frost & Sullivan’s 2026 Global Technology Innovation Leadership Recognition for its strong overall performance in the AI-based industrial safety industry.

What You Need to Know about the Technology Innovation Leadership Recognition

Frost & Sullivan’s Technology Innovation Recognition identifies the company that has introduced the best underlying technology for achieving remarkable product and customer success while driving future business value.

Best Practices Recognition Analysis

For the Technology Innovation Leadership Recognition, Frost & Sullivan analysts independently evaluated the criteria listed below.

Technology Leverage

Commitment to Innovation: Continuous emerging technology adoption and creation enables new product development and enhances product performance

Commitment to Creativity: Company leverages technology advancements to push the limits of form and function in the pursuit of white space innovation

Stage Gate Efficiency: Technology adoption enhances the stage gate process for launching new products and solutions

Commercialization: Company displays a proven track record of taking new technologies to market with a high success rate

Application Diversity: Company develops and/or integrates technology that serves multiple applications and multiple environments

Business Impact

Financial Performance: Strong overall business performance is achieved in terms of revenue, revenue growth, operating margin, and other key financial metrics

Customer Acquisition: Customer-facing processes support efficient and consistent new customer acquisition while enhancing customer retention

Operational Efficiency: Company staff performs assigned tasks productively, quickly, and to a high-quality standard

Growth Potential: Growth is fostered by a strong customer focus that strengthens the brand and reinforces customer loyalty

Human Capital: Leveraging innovative technology characterizes the company culture, which enhances employee morale and retention

Best Practices Recognition Analytics Methodology

Inspire the World to Support True Leaders

This long-term process spans 12 months, beginning with the prioritization of the sector. It involves a rigorous approach that includes comprehensive scanning and analytics to identify key best practice trends. A dedicated team of analysts, advisors, coaches, and experts collaborates closely, ensuring thorough review and input. The goal is to maximize the company’s long-term value by leveraging unique perspectives to support each Best Practice Recognition and identify meaningful transformation and impact.

STEP		VALUE IMPACT	
		WHAT	WHY
1	Opportunity Universe	Identify Sectors with the Greatest Impact on the Global Economy	Value to Economic Development
2	Transformational Model	Analyze Strategic Imperatives That Drive Transformation	Understand and Create a Winning Strategy
3	Ecosystem	Map Critical Value Chains	Comprehensive Community that Shapes the Sector
4	Growth Generator	Data Foundation That Provides Decision Support System	Spark Opportunities and Accelerate Decision-making
5	Growth Opportunities	Identify Opportunities Generated by Companies	Drive the Transformation of the Industry
6	Frost Radar	Benchmark Companies on Future Growth Potential	Identify Most Powerful Companies to Action
7	Best Practices	Identify Companies Achieving Best Practices in All Critical Perspectives	Inspire the World
8	Companies to Action	Tell Your Story to the World (BICEP*)	Ecosystem Community Supporting Future Success

*Board of Directors, Investors, Customers, Employees, Partners

