TRIOMOBIL

Industrial Safety with AI

Maximize Industrial Safety and Efficiency with AI-Powered IoT Technology

OUR MISSION

ZERO ACCIDENTS. MAXIMUM SAFETY.

ABOUT US

Technologies to Help Every Employee Return Home Safely

Operating in 65+ countries, Trio Mobil delivers AI and IoT-powered safety solutions tailored for industrial environments. With a strong focus on **innovation** and **a customer-first approach**, we create smarter, safer, and more efficient workplaces.

1M

Connected Devices Worldwide

2,000+

Global Customers

65+

Countries and Growing

Inhouse R&D for both HW and SW

Customer-Focused Approach

Pioneer of AI and IoT

OUR CUSTOMERS

Trusted by Industry Leaders Worldwide

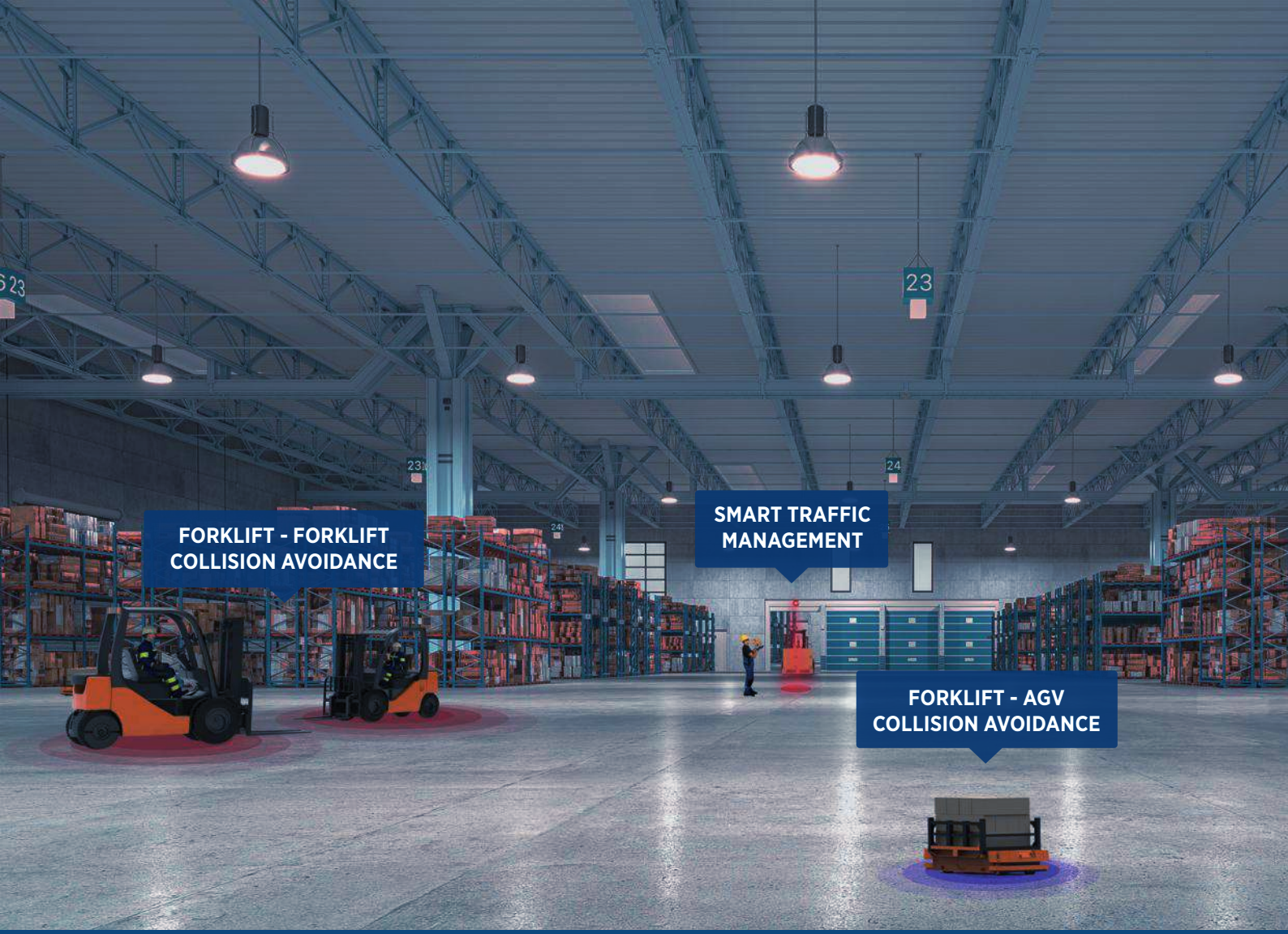
Trio Mobil provides cutting-edge turnkey solutions in **65 countries**, enhancing safety and efficiency in **over 2,000 facilities** worldwide.

360° PROTECTION

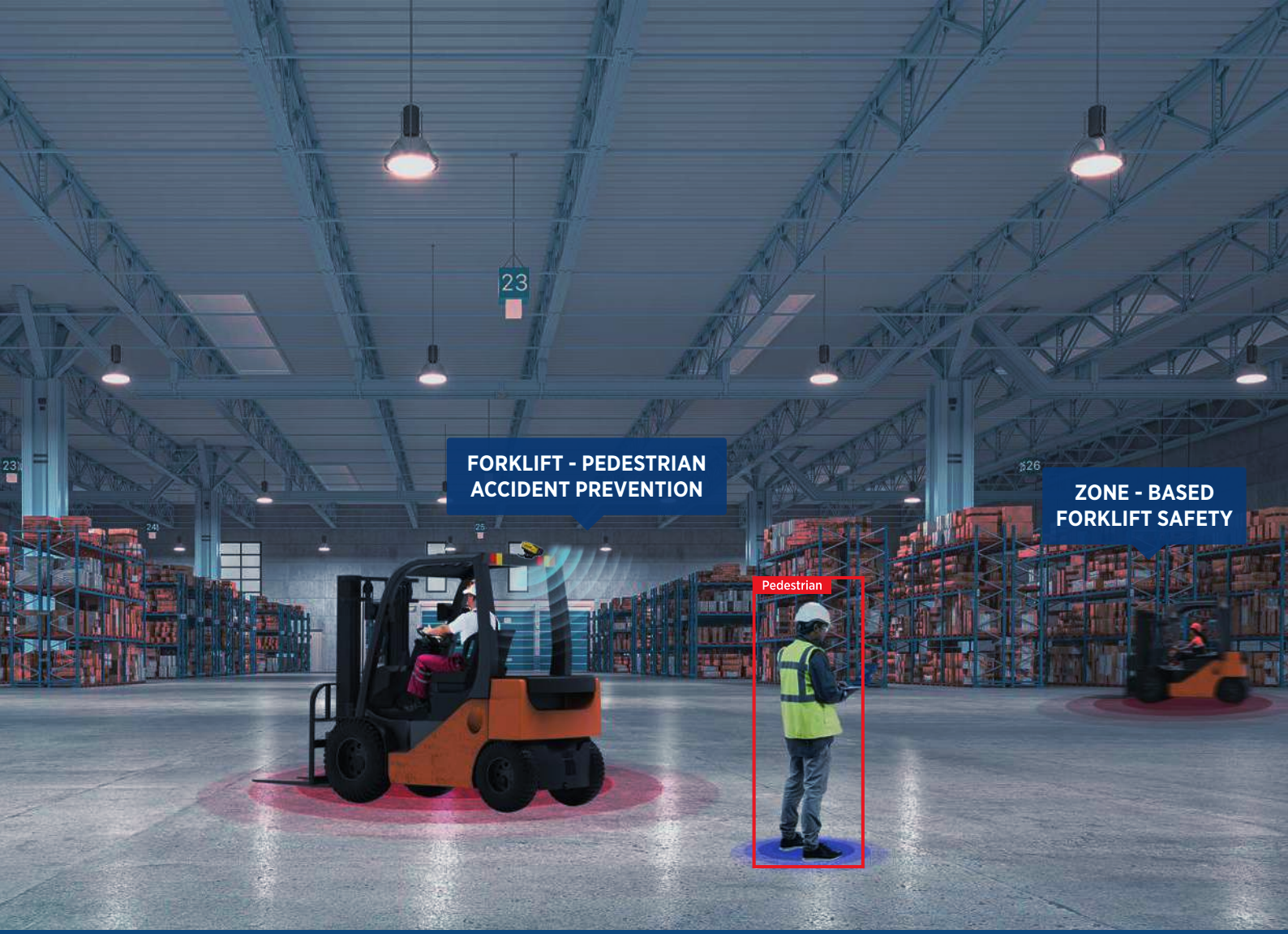
UP TO 20%
INCREASE IN EFFICIENCY

UP TO 98%
REDUCTION IN NEAR-MISS CASES

2,000+
GLOBAL INSTALLATIONS



Pioneering Technology and Solutions for Workplace Safety



TRIO SAFE-AI

AI-Powered Forklift
and Pedestrian Safety

TRUE-AI

The Revolutionary AI Camera for
Workplace Safety

Discover More!

Scan the QR code to watch our company video and explore **Trio Mobil's cutting-edge safety solutions** in action.

AI-Powered Forklift Safety, Accident Prevention System

90% of forklift accidents result from limited visibility.
TRIO SAFE-AI leverages AI and UWB technology to prevent collisions, even in blind spots.

TRIO SAFE-AI enhances workplace safety by:

HIGH-PRECISION PROXIMITY DETECTION WITH AI & UWB

Detects pedestrians, forklifts, and material handling equipment (MHEs) in real time using both **tag-based and tagless detection**, providing **360° coverage** indoors and outdoors without requiring Wi-Fi or a cellular connection.

INTELLIGENT SPEED REDUCTION

Automatically slows forklifts near pedestrians or other MHEs with adaptive one- or two-phase speed reduction.

REAL-TIME AUDIOVISUAL ALERTS

Instantly warns operators to prompt quick accident prevention.

With TRIO SAFE-AI, workplaces benefit from **smarter, safer operations.**

TRIO SAFE-AI

FORKLIFT - PEDESTRIAN ACCIDENT PREVENTION

- Detects pedestrians **with or without tags** using forklift-mounted AI cameras and UWB detection technology.
- Triggers **real-time alerts** for operators and pedestrians.
- Applies **two-stage speed reduction** to prevent accidents.

FORKLIFT / FORKLIFT - AGV COLLISION AVOIDANCE

- Detects approaching forklifts and other material handling equipment (MHE), including lift trucks and AGVs.
- Delivers real-time alerts and dynamically **reduces speed based on proximity**, enhancing safety and operational efficiency.

LED SIGNALING & SMART TRAFFIC MANAGEMENT

- Activates LED signals to **enhance visibility** and alert both pedestrians and forklifts.
- Seamlessly integrates with traffic lights and projection systems for optimized traffic flow and safety.

ZONE-BASED FORKLIFT SAFETY

- Automatically **reduces forklift speed** in designated high-risk areas, such as intersections, blind spots, and pedestrian zones.
- Minimizes the risk of rollovers and collisions by intelligently controlling speed and enhancing situational awareness.

TRIO SAFE-AI

TRIO SAFE-AI system provides **detailed safety analytics,** offering:

AI-POWERED VISION INSIGHTS

Real-time analysis of workplace safety events, **detecting potential risks before they lead to incidents**.

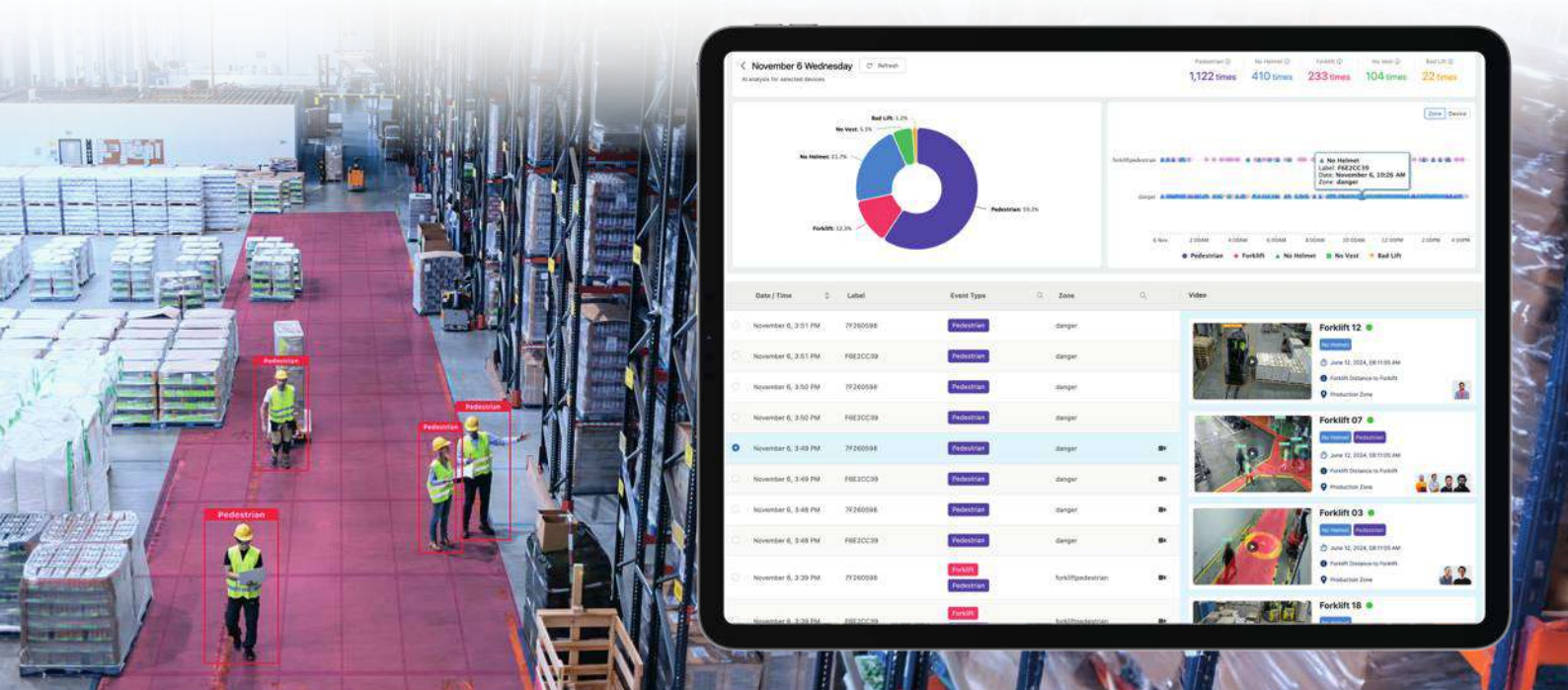
EVENT RECORDINGS & PLAYBACK

Captures and stores safety-related incidents for **detailed review** and **compliance reporting**.

COMPREHENSIVE SAFETY STATISTICS

Tracks **collision risks** and **near-miss events** to enhance workplace safety.

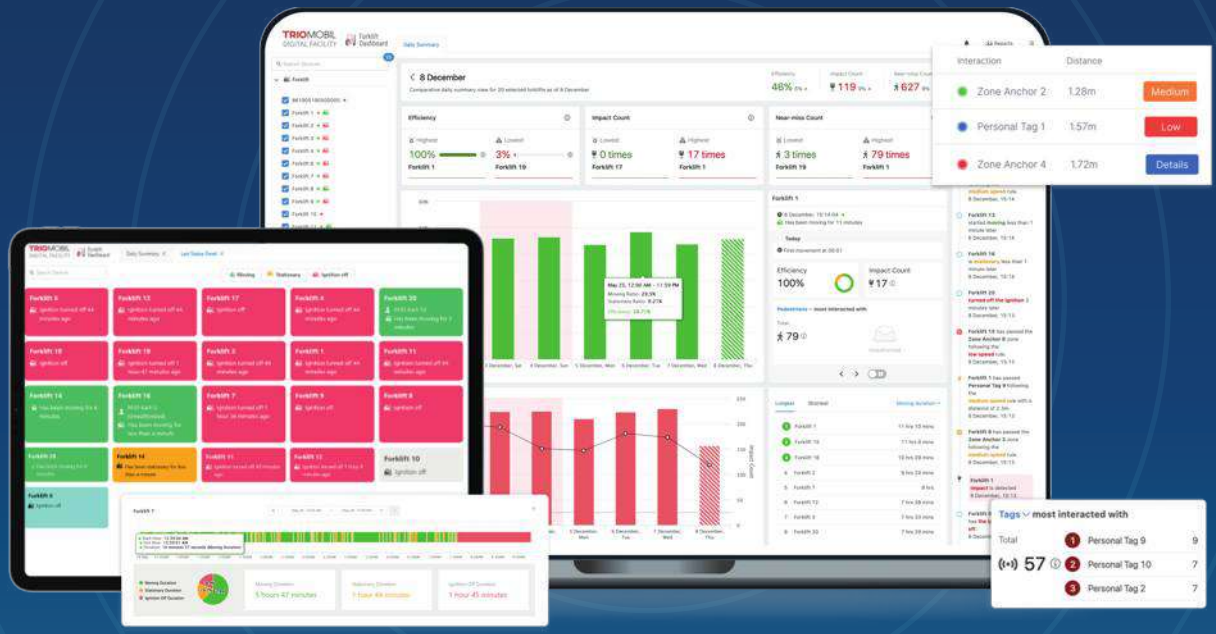
With **data-driven insights** and **AI-powered event monitoring**, TRIO SAFE-AI helps businesses **identify risks, improve safety measures,** and **reduce workplace accidents**.



FLEET BRIDGE

Forklift Fleet Management In One Place

FLEET BRIDGE provides an integrated forklift fleet management solution, combining cutting-edge hardware and cloud technology. The system enhances forklift efficiency by **up to 30%**, monitors impacts, and offers data insights for enhanced operations and safety.



FLEET BRIDGE

- OPERATOR ACCESS CONTROL
- IMPACT DETECTION & MANAGEMENT
- REAL-TIME ALARMS
- PRE-OPERATION CHECKLIST
- FORKLIFT EFFICIENCY REPORTING
- OPERATOR PRODUCTIVITY

TRUE-AI
Forklift
Pedestrian
Pedestrian

Real-Time AI Camera for Workplace Safety

TRUE-AI delivers high-precision solutions across various occupational safety scenarios by performing image processing and analysis using Deep Learning and Edge Computing.

TRUE-AI enhances workplace safety by:

REAL-TIME DETECTION

Utilizes **AI cameras** and **image processing** to identify **pedestrians**, **forklifts**, and **vehicles,** reducing collision risks.

ENHANCED VISIBILITY

Offers a **bird's-eye view** to **eliminate blind spots**, improving safety in **high-risk areas** with precise monitoring.

INSTANT SAFETY ACTIONS

Integrates with **third-party systems**, **machines**, **audio alerts**, and **TRIO SAFE**, triggering **safety measures within milliseconds** to prevent accidents.

FORKLIFT SAFETY & COLLISION AVOIDANCE

TRUE-AI **detects pedestrians** in the designated zones with image processing and AI algorithms. UWB integration **can automatically slow down** a forklift if a pedestrian is within a designated zone. **An audiovisual alert warns** the forklift operator.

LOADING DOCK SAFETY

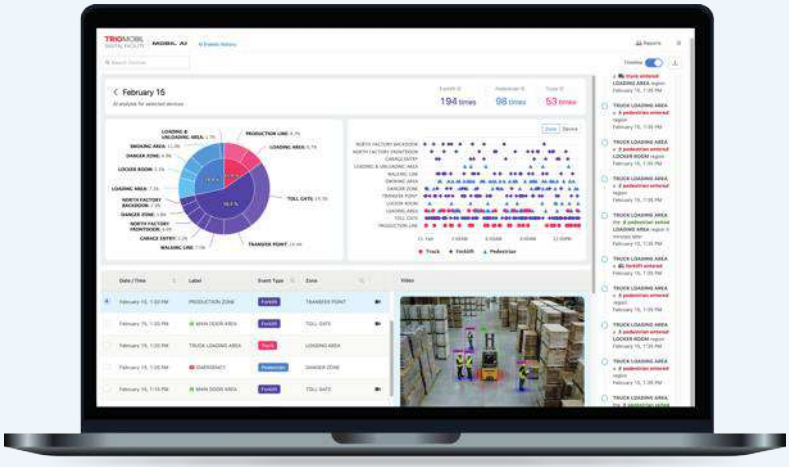
TRUE-AI enhances loading dock safety by detecting **pedestrians** and **vehicles**, activating safety outputs such as **traffic lights**, **an audio alert system** that alerts pedestrians and drivers, and door control through sensors. The system can integrate with **an electrical wheel chock system** and **a hydraulic locker** for an additional layer of safety.

MACHINE ZONE SAFETY & ACCIDENT PREVENTION

TRUE-AI enhances the safety of pedestrians within defined zones through the use of **AI and video analysis**. In case potential danger occurs, it **immediately deactivates the robotic cell** or **alerts pedestrians** through audio and visual, contributing to a safer environment.

VISION INSIGHTS & CLOUD MONITORING

The **TRUE-AI Cloud platform** offers **vision insights** by **storing event-based records** and **providing statistics** for each camera and zone, simplifying the monitoring of **potential dangerous interactions between pedestrians and forklifts**. With its GDPR-compliant system and data insights, True-AI significantly enhances operational safety.



TRIO SENSE

TRIO SENSE **detects objects in real time**, **automatically stopping to prevent collisions** and **enhance MHE safety**. Designed to **minimize risks,** it **protects operators** on electric hand pallet trucks and stackers by **preventing foot injuries**, **avoiding collisions**, and **issuing siren warnings** in risky situations. The timed bypass button allows safe repositioning after a stop, and the system seamlessly integrates with TRIO SAFE for comprehensive safety.

PALLET TRUCK SAFETY

TRIO SENSE detects pedestrians in real time, automatically preventing accidents and foot injuries.

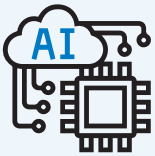
PROACTIVE IMPACT PREVENTION

TRIO SENSE detects objects in real-time, slowing down and stopping only on the way back to prevent impact.

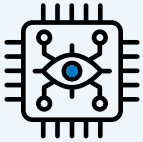
Protecting Workers with Smart Prevention

Scan the QR code to watch how TRIO SENSE prevents collisions and provides employee safety in real time.

The Benefits of Trio Mobil's System



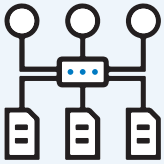
COMPREHENSIVE AI & IoT FUSION



EDGE - PROCESSING AI CAMERA

AUTOMATIC FORKLIFT SLOW DOWN

SMART GEOFENCING & ZONE - BASED MANAGEMENT



FLEXIBLE RULE ENGINE FOR CUSTOMIZED SCENARIOS

INTEGRATION WITH 3RD PARTY SYSTEMS
(TRAFFIC LIGHTS, LEDS, ETC.)

AUTOMATED ALERTS & NOTIFICATIONS

DATA ANALYSIS & CLOUD MONITORING OF THE ENTIRE SYSTEM

PLUG & PLAY SYSTEM FOR QUICK INSTALLATION

AI-Powered Ultra-Wideband Technology for Maximum Safety

The Forklift Safety set includes the Forklift Operator Display & Forklift Reader Units, along with the MOBIL-AI camera, providing an additional layer of safety.

FORKLIFT OPERATOR DISPLAY

Trio Mobil Forklift Operator Display checks if there is a dangerous situation. The device collects the data from the Forklift Reader Units and sends warning signals to the forklift if needed. Whenever it detects a hazardous condition, the Forklift Operator Display decides which rule to execute and delivers the information to the forklift system to perform the related action.

FORKLIFT READER UNIT

Trio Mobil Forklift Reader Unit device transmits signals to the Forklift Operator Display by communicating with pedestrian safety tags, forklift safety cards, and zone anchors in the area. The Forklift Reader Unit collects data wirelessly and forwards this information to the Forklift Operator Display over a cabled connection.

MOBIL-AI

MOBIL-AI is a real-time AI camera that utilizes image processing and edge processing technology for real-time pedestrian detection, thereby enhancing workplace safety. Its robust construction, outdoor suitability, and IP protection enhance durability in various environments. It supports up to three cameras, automates alerts, triggers forklift slowdowns to prevent accidents, provides vision insights for continuous safety improvement, and maintains GDPR compliance for data protection and privacy.

Key Products

PEDESTRIAN TAGS

A Trio Mobil Pedestrian Safety Tag is a device that communicates with the Forklift Operator Display via the Forklift Reader Unit Wireless connection. The **IP65** device is suitable for **indoor and outdoor usage**. The battery life of the pedestrian tag is approximately 12-14 days.

A standard Micro USB charging cable can charge pedestrian safety tags.

ULTRA TAG

The Trio Mobil Ultra Tag provides **360° forklift safety**, AI-driven accident prevention, and emergency-ready response with SOS and fall detection.

It optimizes workflows with **RTLS tracking**, enhances ergonomics, and secures access with **battery-safe tags** for ultimate workplace protection.

TRUE-AI

TRUE-AI performs Artificial Intelligence analysis through integrated cameras and sensors. It produces high-precision solutions in various occupational safety scenarios by performing image processing and analysis with Deep Learning and Edge Processing.

It runs AI algorithms using Edge Processing and does not require a network connection or cloud server.

- Built-in artificial intelligence chip dual-camera support
- Automatic calibration
- Automatic hardware and software health checks, error correction, and reporting

TRUE-AI

Revolutionizing Safety: Explore Trio Mobil's Advanced Solutions

Discover **cutting-edge safety solutions** trusted by **global industry leaders**. From **AI-powered forklift safety** to **real-time video analytics**, our innovative technologies **prevent accidents** and **increase efficiency** through seamless **IoT** and **AI integration**.

Unilever

Our TRIO SAFE and Fleet Bridge solutions have been successfully deployed at **14 locations**, including RTLS and Emergency Assembly Point solutions in **4 cold storage facilities** at Unilever, resulting in a notable improvement in operational **efficiency** and **safety** measures.

Ford

Ford's implementation of TRIO SAFE and RTLS solutions improved safety and yielded a remarkable increase in productivity. This initiative achieved global recognition, earning the prestigious **HSE Competition's Best Practice Award**.

Smurfit Westrock

Smurfit Westrock has integrated our cutting-edge TRUE-AI Real-time Video Analytics system to enhance safety across their operations, implementing it across **10+ facilities.** This outstanding approach has been recognized for its excellence, leading to **a rollout across multiple countries.**

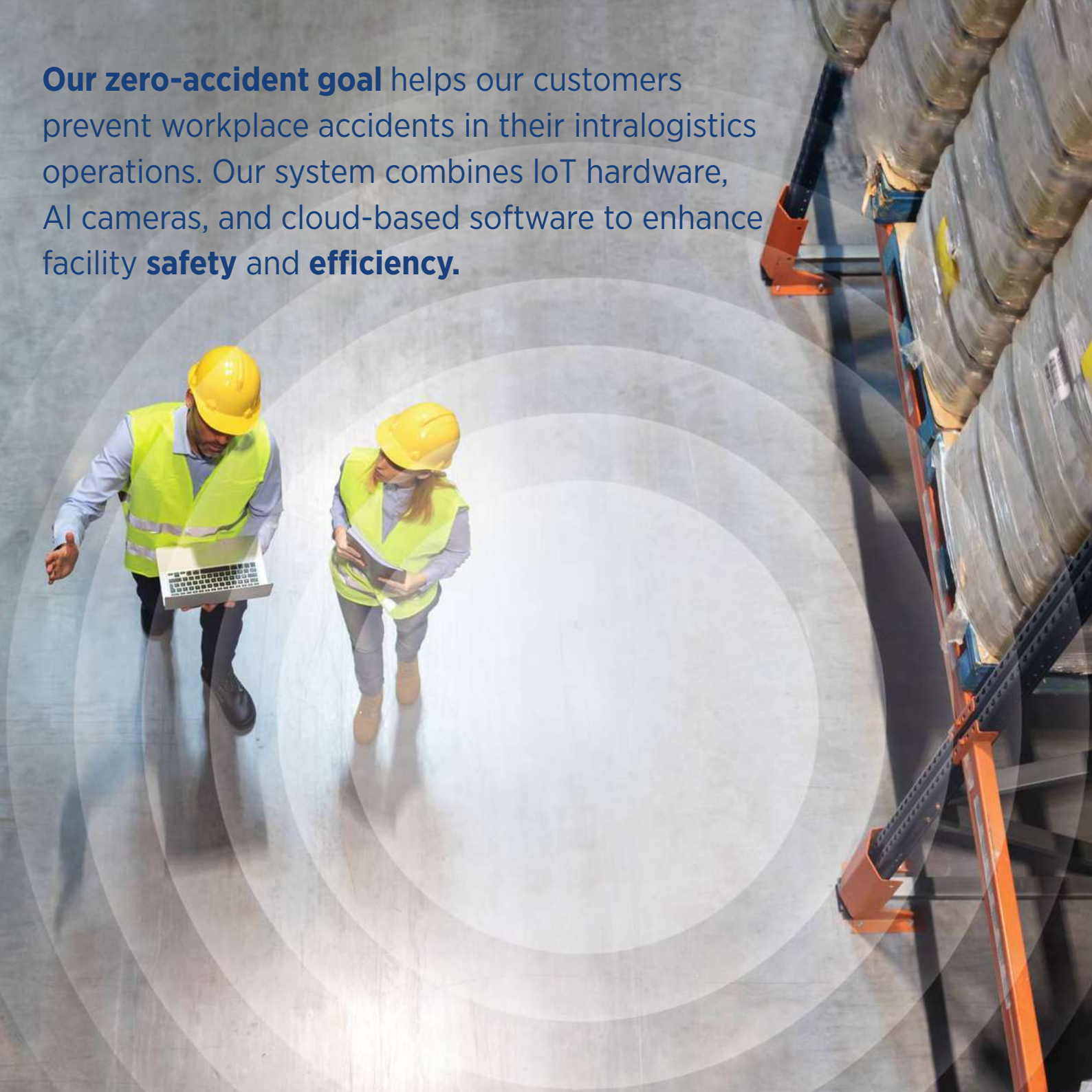
Mercedes-Benz

Mercedes-Benz's integration of RTLS structure and an anti-door collision system has not only enhanced safety but also digitized end-of-line operations. This implementation showcases the company's commitment to **creating a safer and more efficient workplace.**

Discover Safe Operations with Trio Mobil's Cutting-Edge Technology.

Scan the QR code to explore Trio Mobil's Customer Success Stories.

Our zero-accident goal helps our customers prevent workplace accidents in their intralogistics operations. Our system combines IoT hardware, AI cameras, and cloud-based software to enhance facility **safety** and **efficiency.**



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Scan the QR code for more information

www.triomobil.com