# BLAXTAIR®

AI-POWERED CONNECTED SOLUTIONS TO IMPROVE INDUSTRIAL SAFETY & PRODUCTIVITY
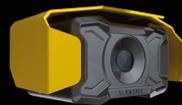

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Your target:
Zero accidents & enhanced productivity

Take your forklifts and heavy equipment
to the next level with genuine AI
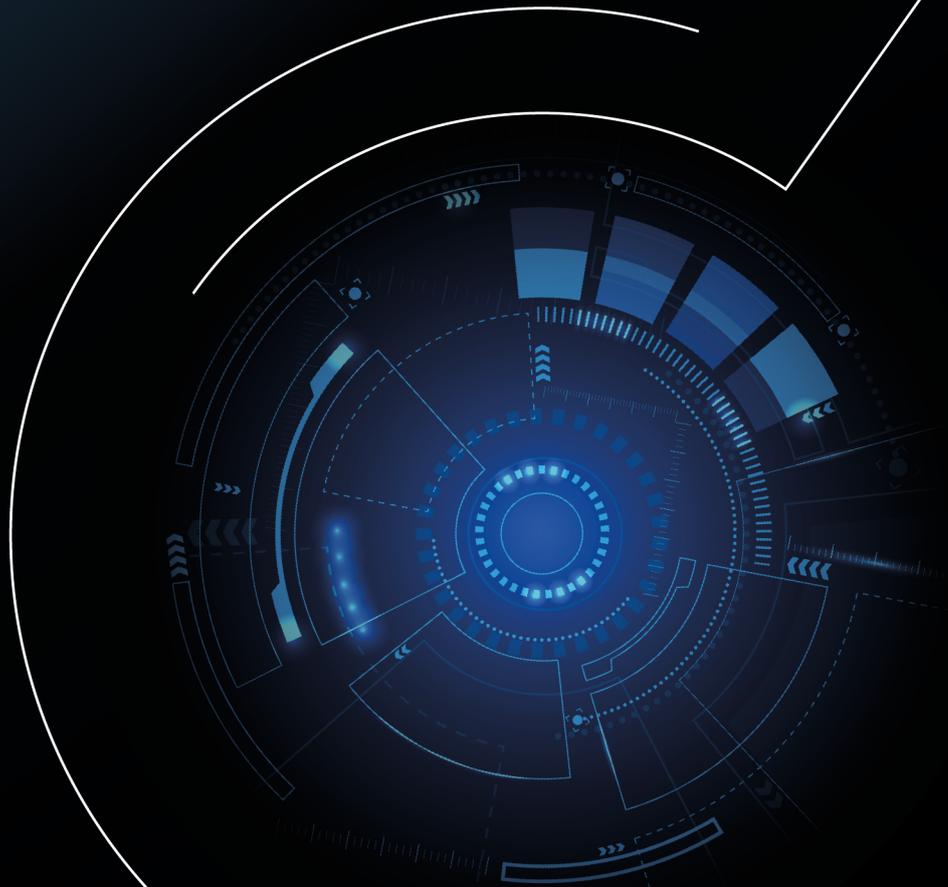
Blaxtair Solutions

OSHA Checklist
Pre-startup vehicle safety review

OPTIMIZATION OF VEHICLE AVAILABILITY

- Maintenance operators are quickly **alerted** to fleet status so that necessary **repairs** can be **made proactively**
- Minimizes repair time & unplanned downtime

VEHICLE FLEET STATUS

VEHICLE NAME	CHECKLIST RESULTS
Vehicle No1	✅ Passed
Vehicle No2	✅ Passed
Vehicle No3	❌ Failed

CUSTOMIZABLE SOLUTION

- Customizable question list
- Includes **diverse questions**, covering all **crucial aspects**

BLAXTAIR®

Any fuel, engine oil, or coolant leaks?
NO YES

Are the forks free of cracks?
NO YES

Do all fluid levels pass inspection?
YES NO

Does the forklift position the forks correctly?
NO YES
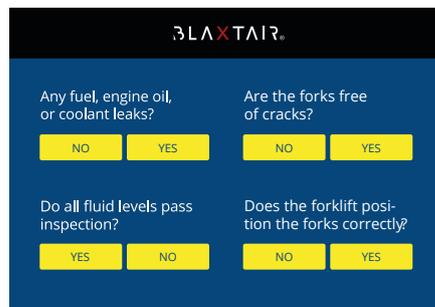
EASY ACCESS / EASY MANAGEMENT

- Real-time & centralized overview of the entire **vehicle fleet status**
- **Access control**: driver identification by code
- **Reports automatically digitized and effortlessly accessible** (vs. a manual record, which can be incorrectly completed and lost)

MANUAL VS. DIGITAL

IMPROVED WORKPLACE SAFETY

- The vehicle won't start if a critical **safety question** is not answered correctly (option)
- Complies with **OSHA regulations**
- Provides **total peace of mind** to operators and their employers
- Enhances **driver awareness**

Play the video!

Blaxtair Checklist solution is available as stand-alone or in addition to the 'Blaxtair Pedestrian Detection' anti-collision solution

Pedestrian Detection
AI for saving lives

THE MOST ADVANCED PEDESTRIAN DETECTION SOLUTION TO ENHANCE SAFETY

- The only industrial-grade AI camera able **to detect and localize pedestrians in real time**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Detects **any posture** (standing, crouching, partial view) to prevent collisions with forklifts / heavy equipment, whether **driving forward or in reverse**
- Localization (USP): **Constant danger zone**, regardless of **mast inclination**

DASHBOARD ANALYTICS FOR PROACTIVE ACTION ON ACCIDENT RISKS

- **Monitors & reduces the risk of vehicle/pedestrian accidents by a factor of 3**
- Highlights **the most dangerous machines** and determines **the time and place where the risk of accident is highest**
- **Measures the effectiveness of the preventive actions implemented** to prevent accidents between vehicles & pedestrians

INCREASED PRODUCTIVITY & BETTER WORKING CONDITIONS

- Generates **only relevant alerts** for the driver, avoiding nuisance alarms and alarm fatigue
- **Avoids** incurring **costs** related to downtime, workplace accidents or fatalities

What the driver sees:
a lot of blind spots!

COMPACT, ROBUST & EASY TO INSTALL

- Operational in **harsh and tough environments**
- **Waterproof and dustproof** (IP69K sensor head)
- Compatible with **all types and brands of industrial vehicles** (forklift trucks, wheel loaders, excavators, etc.)
- **Compact** and **easy to integrate**
- **Future-proofed: online maintenance & remote software updates**

What Blaxtair detects and localizes:
the crouching pedestrian

Vehicle Detection
Vehicle/vehicle collision avoidance
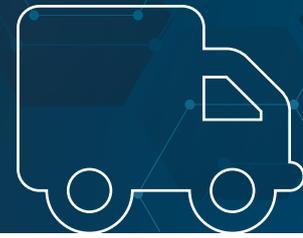
ENHANCED SAFETY

- **Detects and localizes vehicles** in close proximity in real time **to prevent collisions**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Ensures a **safer working environment**

**What the driver sees:** a lot of blind spots!

OPTIMIZATION OF OPERATIONAL PROCESSES

- **Enhances vehicle availability & generates savings** by preventing property damage and personal injury
- Improves **operational efficiency**

What Blaxtair detects and localizes: the MPV / combispace

EXAMPLES OF USE CASES

Trucks driving around loaders or excavators at a recycling site

Delivery or service vans on an industrial site

Forklifts that operate simultaneously around others in a warehouse

On-road vehicles around dumpers in a quarry

Play the video!

Specific Obstacle Detection
Vehicle/obstacle collision avoidance

ENHANCED SAFETY

- Detects and localizes specific obstacles around vehicles in real time **to prevent collisions**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Ensures a **safer working environment**

OPTIMIZATION OF OPERATIONAL PROCESSES

- Enhances vehicle availability & **generates savings** by preventing property damage and personal injury
- Improves **operational efficiency**

EXAMPLES OF USE CASES

CONCRETE PILLAR
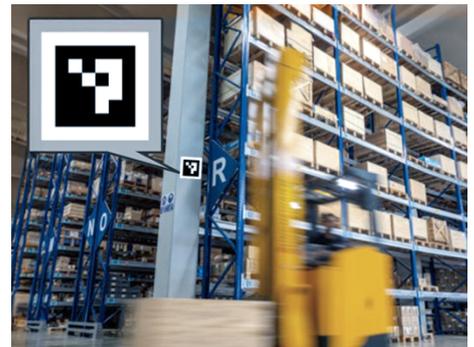
ROLLING DOOR
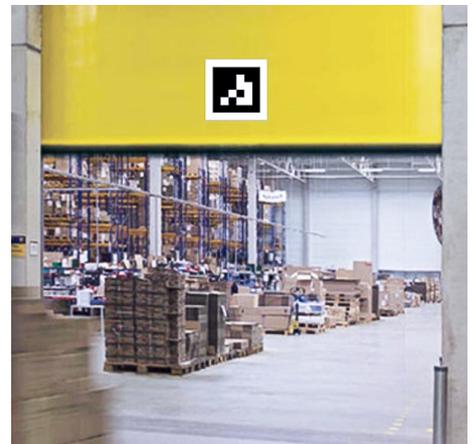
Shock detection
Prevention of impact damage

ENHANCED SAFETY

- Detects vehicle shocks from impacts with poles, racks, pallets, etc
- Video recording & snapshots of shocks to make impacts visible
- Prevents serious accidents that can occur following impacts
- Provides a digital output to act on the vehicle in the event of a shock: automatic speed limitation, visual and/or audible alarm, etc
- Increases operator accountability & encourages safe driver practices

Make impacts visible with video recordings & snapshots

OPTIMIZATION OF OPERATIONAL PROCESSES

- Enhances vehicle availability & generates savings by preventing property damage
- Improves vehicle reliability, keeping the fleet in very good condition, which extends the lifespan of the vehicles

DASHBOARD ANALYTICS FOR PROACTIVE ACTION ON ACCIDENT RISKS

- Monitors shock detections in real time
- Analyzes the source of damage and decision-making based on relevant data: localization of shocks, detection times, vehicles involved, severity of impacts, visual evidence (photos and videos) of incidents, etc.
- Measures the effectiveness of the preventive actions implemented to prevent damage due to vehicle impacts

Play the video!

Zoning
Automatic speed limitation in risk areas
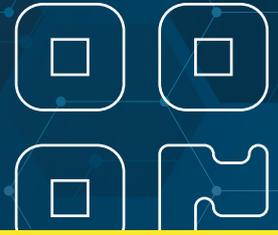
REDUCTION IN ACCIDENT RISK

- **Automatic limitation** of forklifts **to a safe speed in high-risk areas**
- **Normal speed** is applied again **for areas with less risk**
- **Risk of accidents is significantly reduced**

INCREASED EFFICIENCY

- Automatic speed limitation **eliminates the need for drivers to suddenly stop and restart their vehicles**, streamlining workflow
- Improves **operational efficiency**
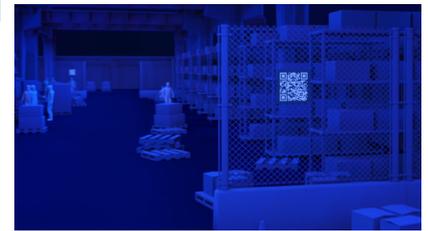
QR code to limit vehicle speed

SIMPLE IMPLEMENTATION

- The solution is **revolutionary** and **cost-effective, eliminating the need** for **heavy radiofrequency-based infrastructure**

CUSTOMIZABLE SOLUTION

- **Can personalize forklifts speed** according to **the specificities of each work zone** and to **the unique requirements of each site**, ensuring optimal safety and productivity
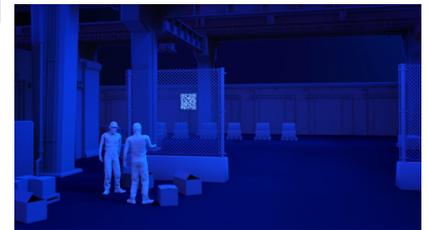
QR code for the vehicle to return to normal speed

EXAMPLES OF HIGH-RISK AREAS

- Areas with high vehicle/pedestrian co-activity
- Narrow aisles
- Dangerous intersections
- Doors
- Loading/unloading docks

12km/h
Area at normal speed

6km/h
Area of high co-activity at limited speed

12km/h
Area at normal speed

Example of speed limitation

Dashboard
## Safety & productivity analytics

- Most-advanced, cloud-based & integrated **fleet management solution** for **safer, more efficient and profitable operation**

- **Relevant dashboard metrics/KPIs** to make **data-driven decisions** with ease

- A **proactive approach to safety and productivity** that allows companies to **prioritize, take actions** on their organization and **measure** their **efficiency**

ENHANCED SAFETY TO ACHIEVE THE 'ZERO ACCIDENTS' OBJECTIVE

- Monitors & reduces the risk of vehicle/pedestrian collisions by a factor of 3

- Measures and identifies risk levels, dangerous machinery, locations and **times** with a **high probability of accidents**

- Makes the impacts visible with **visual evidence:** Video recording & snapshots of shocks

- Real-time safety compliance tracking for **Checklists**
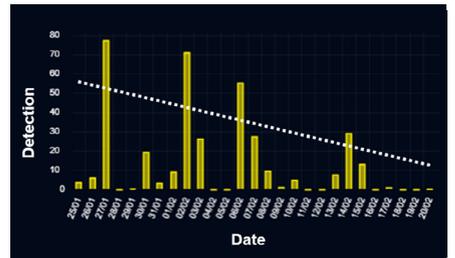
INCREASED PRODUCTIVITY & PERFORMANCE TO STAY AHEAD

- Optimizes operations by **identifying areas of improvement**

- Enhances **vehicle availability** by ensuring **continuous improvement** in **maintenance compliance**

GENERATED COSTS SAVINGS

- **Reduces costs** related to **accidents** and **damages** through **preventive actions**

- Provides up-to-date information on the **status of the vehicle fleet** for **predictive maintenance**

Play the video!

VEHICLE NAME	CHECKLIST RESULTS	
Vehicle No1	✓	Passed
Vehicle No2	✓	Passed
Vehicle No3	✗	Failed

With Blaxtair, Save Lives and Improve Productivity on Your Sites!

50+ COUNTRIES ADDRESSED

2,500+ EQUIPPED SITES

- HQ, R&D & Production: France (since 2009)
- Subsidiary: USA (since 2019)
- Sales offices: Germany, Spain, UK

ABOUT US

- Founded in 2009
- Pioneer of embedded AI, smart vision & pedestrian proximity detection
- Mission: to work for safety & productivity in industry using perception technologies

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BLAXTAIR®

WITH BLAXTAIR, SAVE LIVES
& IMPROVE PRODUCTIVITY ON YOUR SITES!

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