LUIS
TECHNOLOGY

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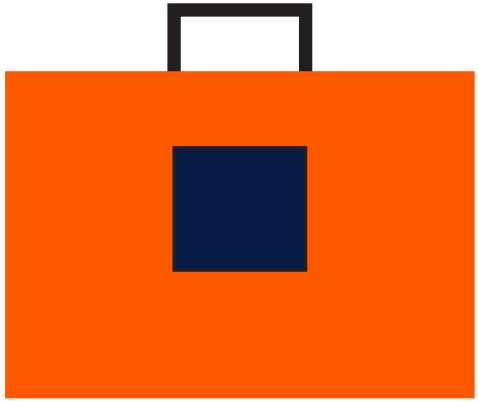
COSMIC
AUTOMOTIVE CUSTOM SOLUTION



LUISCO SYSTEM
APPLICATION

LUIS TECHNOLOGY

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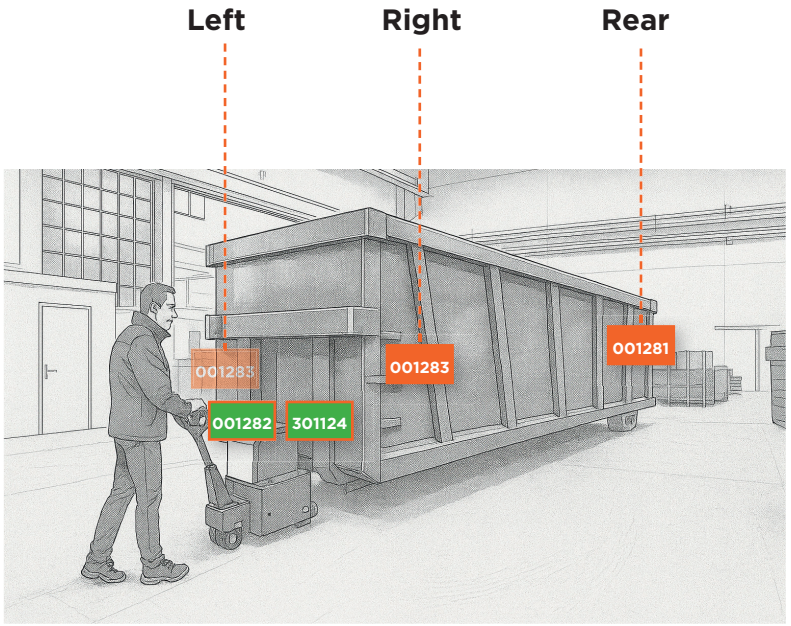
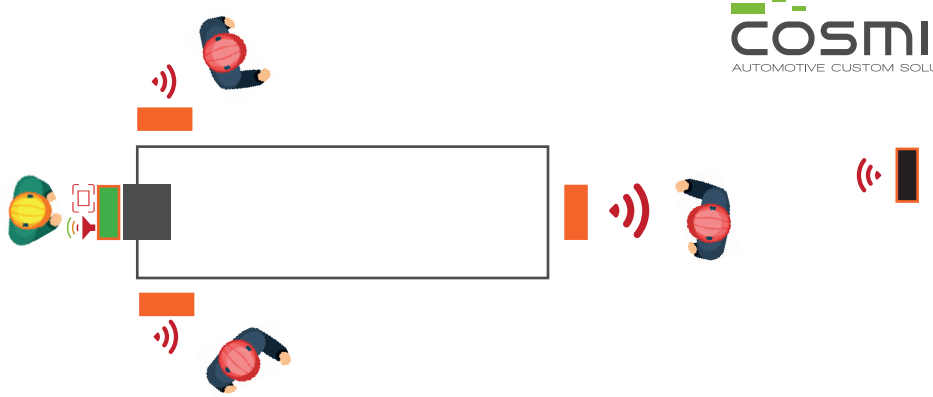
Luisco System application examples

INDUSTRIAL HANDLING





During the handling of baskets, containers, or pallets, where visibility is often limited by the size of the load, **LUISCO** solutions ensure continuous monitoring of the travel sides.

Installed on an electric pallet truck, the system integrates an onboard monitor and RX receiver, providing the operator with real-time visibility of blind spots, improving maneuvering control and movement safety.

The **LUISCO EDGE AI TX** module detects the presence of people near the vehicle and emits acoustic signals via an integrated speaker, promptly alerting pedestrians in hazardous areas.

The system also allows for the configuration of automatic deceleration or stopping of the pallet truck in dangerous situations, directly intervening in the operational dynamics of the vehicle to prevent accidents.

For even broader protection, acoustic and visual signaling devices can also be installed on walls or fixed structures within the work area, **extending both visual and audible alerts and safeguarding the entire operational zone.**

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)

***001281** - LUISCO EDGE AI TX

001282 - LUISCO RX

***001283**- LEFT SIDE CAM

***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001295 - 001280 - 001297**

SMART PREVENT

Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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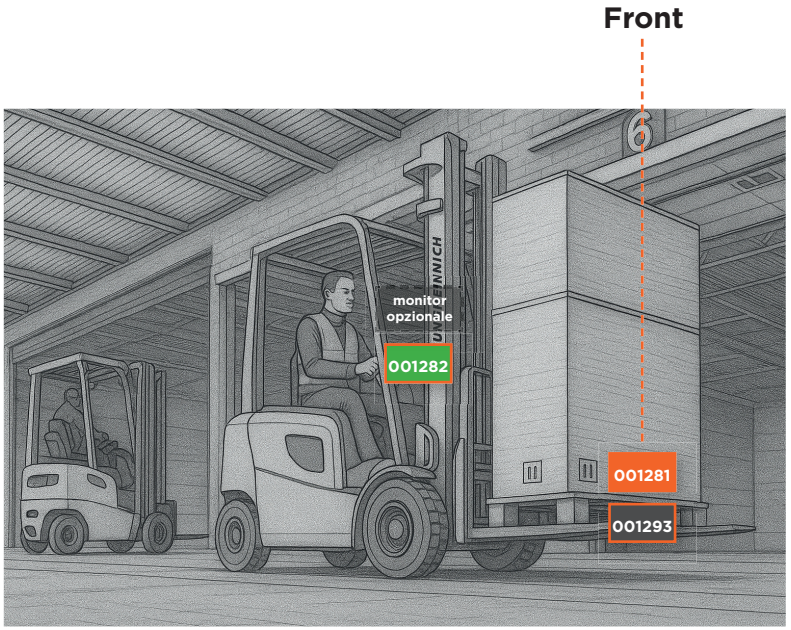
Luisco System application examples

FORKLIFTS



During load handling operations on pallets, where bulky loads reduce front visibility, **LUISCO solutions ensure continuous monitoring of the front area of the vehicle.**

Installed on a forklift, the system includes only the RX acoustic receiver in the cabin (optional monitor available upon request), which **alerts the operator to the presence of workers** in the front maneuvering zone, increasing safety during movements.

The LUISCO EDGE AI TX module, installed at the front of the vehicle using an optional mounting plate, detects the presence of pedestrians and **emits acoustic signals through the integrated speaker, alerting both the operator via the RX receiver and pedestrians via direct sound alarms.**

The system also allows for the **configuration of automatic deceleration or stopping of the forklift when a danger** is detected, directly intervening in the vehicle's operational dynamics.

For even broader protection, acoustic and visual signaling devices can also be installed on walls or fixed structures in the work area, **extending both visual and audible alerts and safeguarding the entire operational zone.**

Recommended solution

001280

LUISCO KIT (Model **LSSK**)

***001281** - LUISCO EDGE AI TX

001282- LUISCO RX

001202 AI TOOLING KIT

001293
EDGE PALLET MOUNTING PLATE (OPTIONAL)

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001295 - 001297**

SMART PREVENT
Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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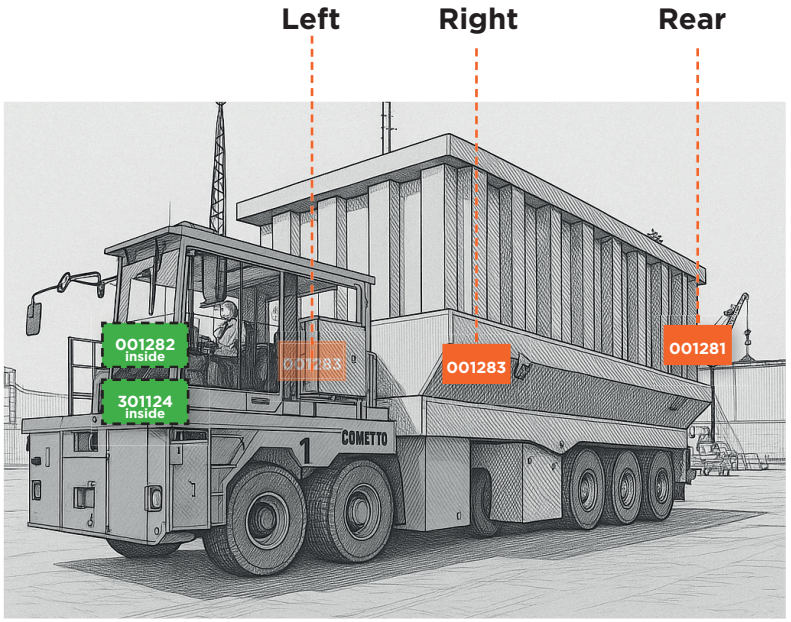
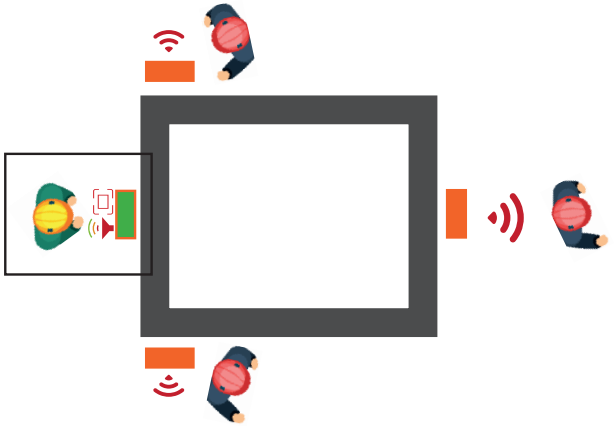
Luisco System application examples

SELF-PROPELLED VEHICLES





During handling operations on construction sites or in industrial settings, **the size and volume of self-propelled vehicles can limit visibility,** increasing the risk of accidents in maneuvering areas.

LUISCO solutions ensure continuous monitoring of operational zones, providing **enhanced protection for drivers and ground personnel.**

Installed on vehicles such as cranes, telescopic handlers, dumpers, and industrial movers, the system integrates both a control monitor and the RX acoustic receiver on board, **offering real-time views of critical areas and immediate audio alerts about the presence of obstacles or people in blind spots.**

The LUISCO EDGE AI TX module, installed at the rear or front of the vehicle, detects the presence of pedestrians and **promptly warns both the driver and ground personnel through acoustic signals emitted by the integrated speaker.**

The system also allows for the **configuration of automatic vehicle slowing or stopping in the presence of hazards,** directly influencing its operational dynamics.

For extended protection, acoustic or visual signaling devices can be installed on walls or fixed structures, **increasing coverage and the safety of the entire work area.**

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)

***001281** - LUISCO EDGE AI TX

001282 - LUISCO RX

***001283**- LEFT SIDE CAM

***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001300 - 001280 - 001295 - 001297**

SMART PREVENT

Registration and monitoring via dedicated portal

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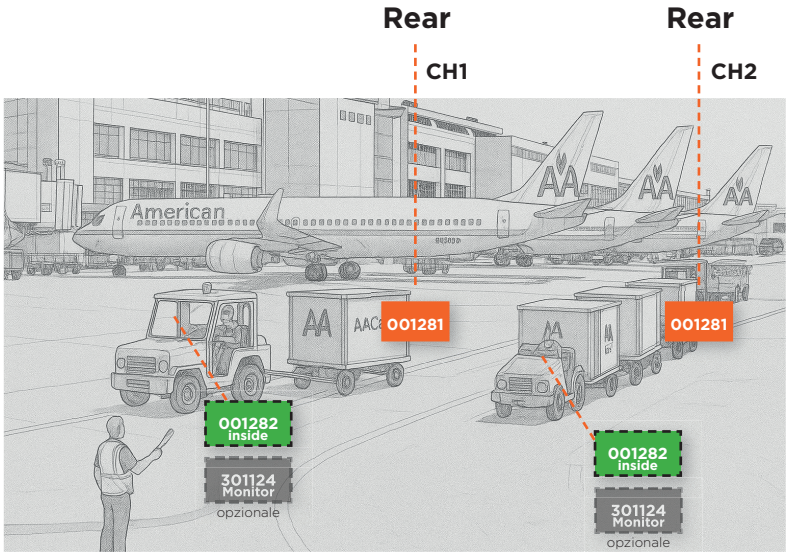
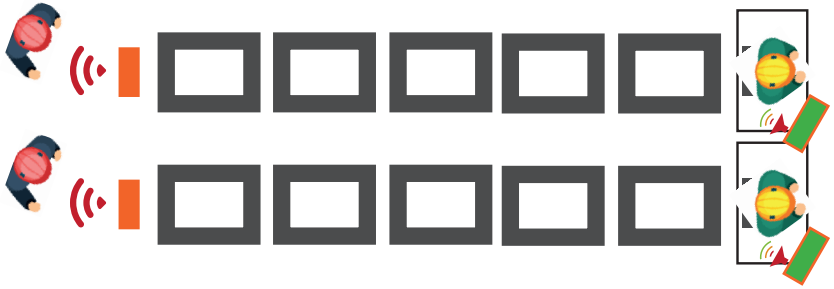
Luisco System application examples

LUGGAGE TRAILER



***Multiple Installation of LUISCO EDGE AI TX**
Simultaneous management of up to 9 vehicles.



In airport areas where baggage handling vehicles operate in shared spaces with personnel and obstacles, **it is essential to ensure maximum control during maneuvers.**

The LUISCO EDGE AI TX system, installed on the rear of the vehicles, monitors the area behind in real time and **alerts the driver with acoustic signals when operators are present.**

*Up to 9 vehicles can be managed simultaneously thanks to independent frequency channels, ensuring interference-free operation between the various installed systems.

The system also allows for the **configuration of automatic vehicle slowing or stopping in the presence of hazards,** directly influencing its operational dynamics.

For extended protection, acoustic or visual signaling devices can be installed on walls or fixed structures, **increasing coverage and enhancing the safety of the entire work area.**

Recommended solution

001280

LUISCO KIT (Model **LSSK**)

***001281** - LUISCO EDGE AI TX

001282- LUISCO RX

001202 AI TOOLING KIT

001293
EDGE PALLET MOUNTING PLATE (OPTIONAL)

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001295 - 001298**

SMART PREVENT
Registration and monitoring via dedicated portal

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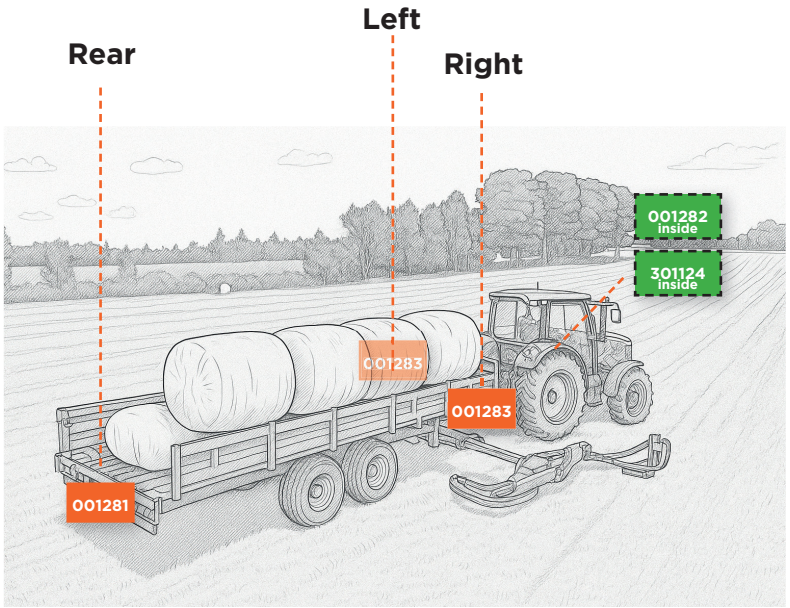
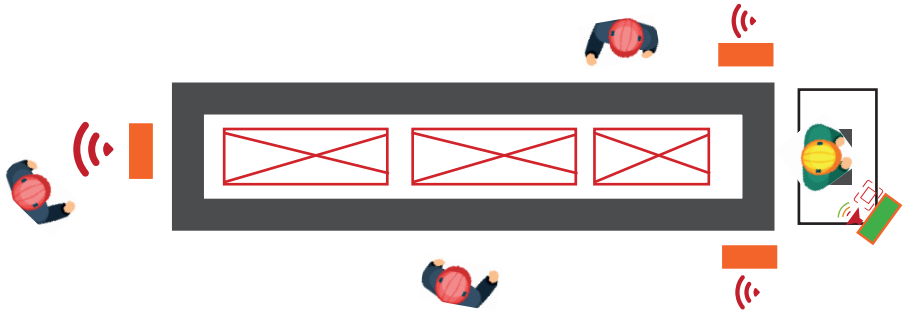
Luisco System application examples

AGRICULTURAL HANDLING





During agricultural operations, such as transporting goods in crates or using tractors and self-propelled vehicles, **visibility can be compromised by both the size of the machines and the volume of the loads, increasing the risk of accidents.**

LUISCO solutions ensure continuous monitoring of maneuvering areas, **protecting both drivers and ground operators.**

Installed on agricultural vehicles, the system integrates an onboard control monitor and RX acoustic receiver, **providing real-time visibility and immediate audio alerts when obstacles or people are detected.**

The LUISCO EDGE AI TX module, mounted at the front or rear, **detects the presence of pedestrians and alerts both the driver and ground personnel via acoustic signals.**

The system also allows for **configuring automatic slowing or stopping of the vehicle** in the presence of hazards and supports the installation of acoustic and visual indicators on fixed structures to expand safety coverage.

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)

***001281** - LUISCO EDGE AI TX

001282 - LUISCO RX

***001283**- LEFT SIDE CAM

***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001280 - 001295 - 001297**

SMART PREVENT

Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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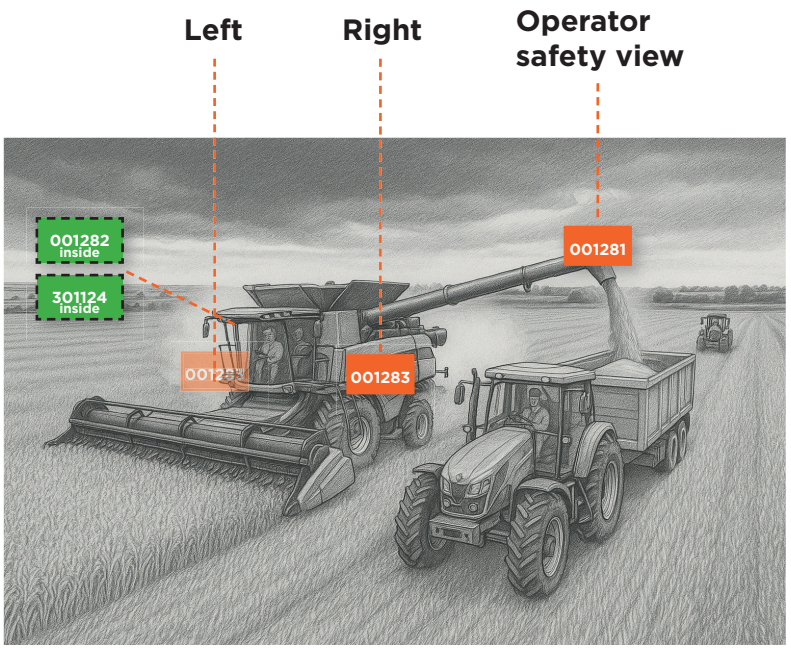
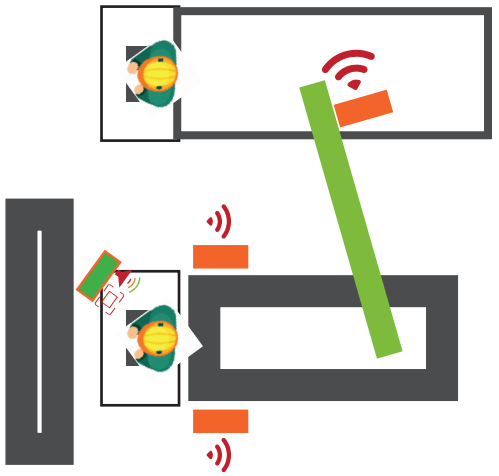
Luisco System application examples

AGRICULTURAL HANDLING





During the harvesting phase in the fields, one of the most common situations is **transferring the crop from a combine harvester to a support vehicle, such as moving trailers or tractors.**
At these times, visibility can be compromised by dust, load volume, and the complexity of simultaneous trajectories.

LUISCO systems offer a practical and effective solution: thanks to their mobile, wireless, and ready-to-use structure, **they can be quickly installed on both the combine and the loading vehicles**, ensuring continuous monitoring of the operational area during unloading and approach phases.

The LUISCO EDGE AI TX module, positioned near the unloading pipe, monitors the flow of the load and detects the presence of people in the surrounding area, sending acoustic and visual alerts to both the operator in the cab and ground personnel.

The monitor, which can be installed in the cab or worn by a supervisor in its portable version, **provides a real-time view of the maneuver**, enabling precise control of the vehicle's trajectory and the fill level of the receiving unit.

In addition, the system can directly influence vehicle dynamics, triggering automatic slowing or stopping in the event of danger, overload, or unauthorized presence in critical zones.

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)


***001281** - LUISCO EDGE AI TX


001282 - LUISCO RX


***001283**- LEFT SIDE CAM


***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001295 - 001297**

SMART PREVENT
Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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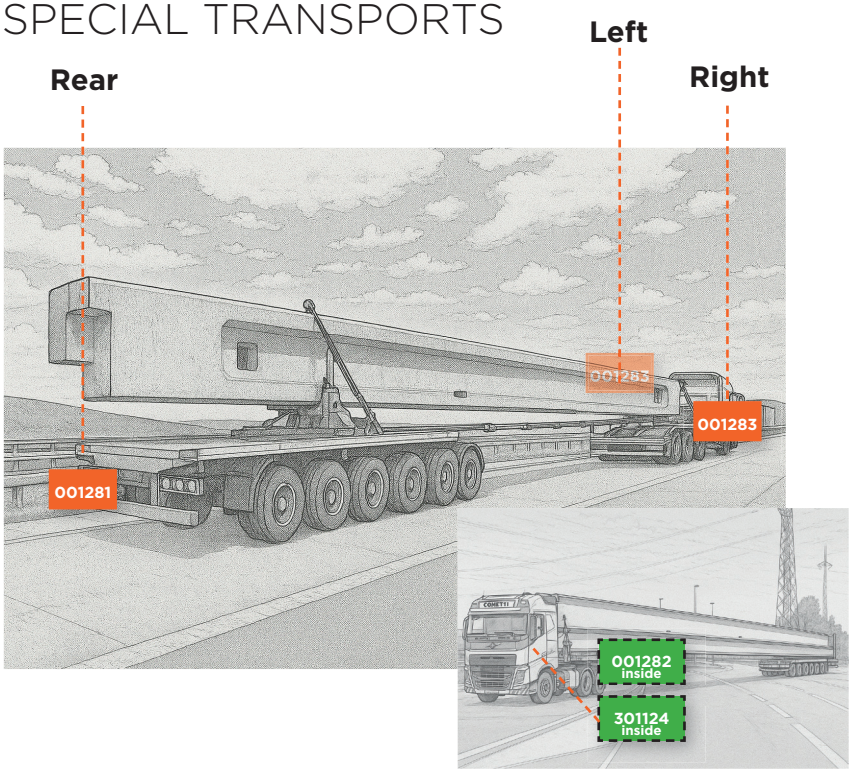
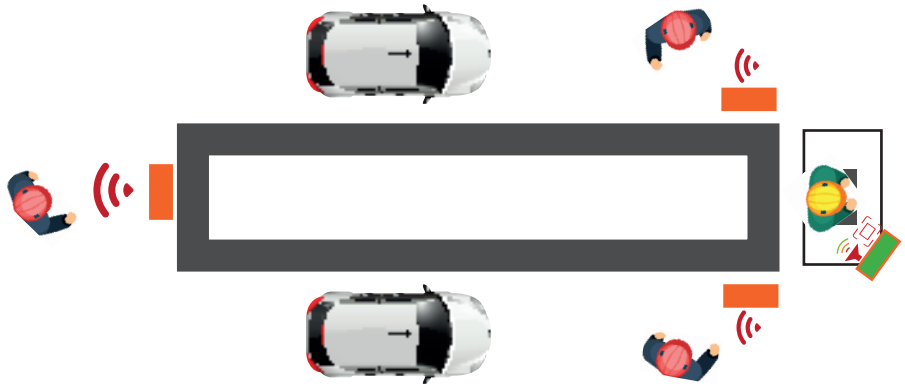
Luisco System application examples

SPECIAL TRANSPORTS





During special transport operations on roads and highways, **the size of the vehicle and its load can reduce visibility, increasing the risk of accidents.**

LUISCO solutions continuously monitor critical areas, **protecting the driver, escort vehicles, and other road users.**

Installed on heavy transport vehicles, the system includes a monitor and RX acoustic **receiver to provide visibility of blind spots and real-time audio alerts.**

The LUISCO EDGE AI TX module, mounted at the rear, detects pedestrians and obstacles, transmitting acoustic alarms, images, and voice messages directly to the RX receiver in the cab, **enabling immediate coordination between the external area and the operator.**

Two side cameras complete the system, monitoring blind spots and approaching vehicles, and supporting maneuvers through tight curves or intersections.

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)

***001281** - LUISCO EDGE AI TX

001282 - LUISCO RX

***001283**- LEFT SIDE CAM

***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001280 - 001295 - 001300 - 001297**

SMART PREVENT

Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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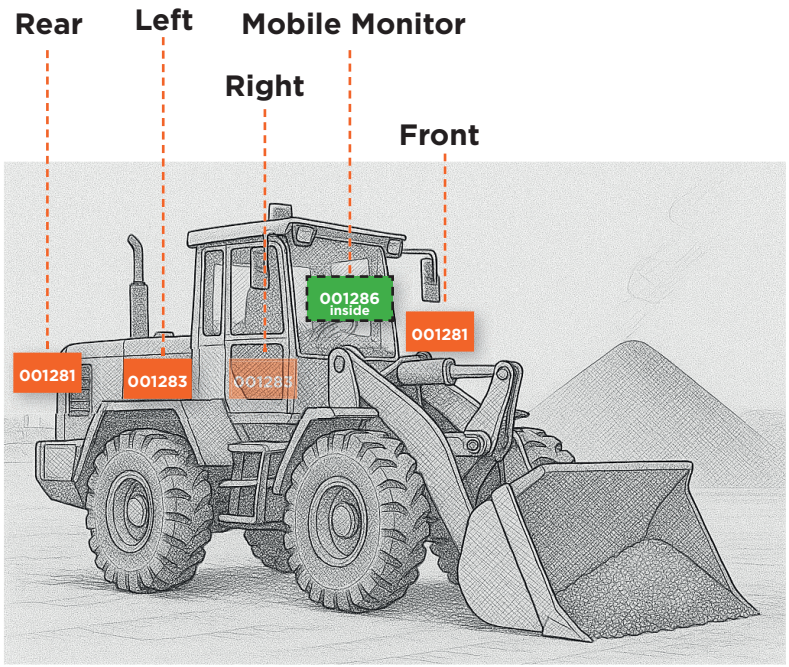
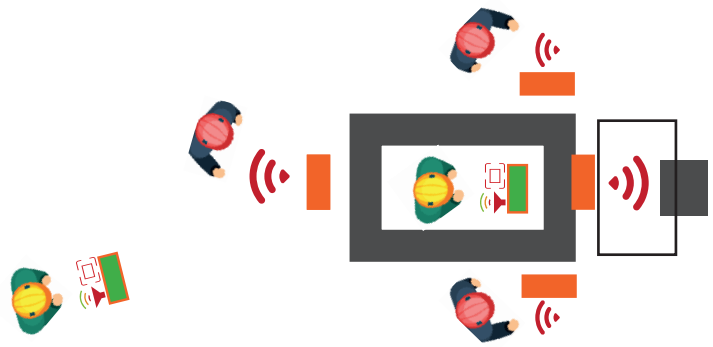
Luisco System application examples

CONSTRUCTION TRANSPORT





During operations involving construction vehicles, such as bucket tractors, cement mixers, dumpers, and material transport vehicles, **the size of the equipment and the load volume can limit visibility, increasing the risk of accidents.**

LUISCO solutions ensure continuous monitoring of operational areas, protecting both drivers and ground personnel.

In this configuration, the system uses a portable magnetic monitor that integrates video reception and acoustic alerts into a single device.
The monitor can be easily mounted in the cab using a magnetic support, worn by control operators, or positioned nearby to supervise maneuvers.

The LUISCO EDGE AI TX module, installed at the front or rear, detects the presence of pedestrians and transmits acoustic alarms, images, and voice messages to the portable monitor.

The system is completed by two side cameras that **monitor blind spots, detect moving vehicles or workers, and support maneuvers in confined spaces or complex intersections.**

Recommended solution

001300

LUISCO KIT 360° (Model **LS360**)


***001281** - LUISCO EDGE AI TX


***001285** - FRONT CAM


***001283** - LEFT SIDE CAM


***001284** - RIGHT SIDE CAM


***001286**
MOBILE MONITOR
360° RX


001202 - AI TOOLING KIT

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001297 - 001295 - 001280**

SMART PREVENT
Registration and monitoring via dedicated portal

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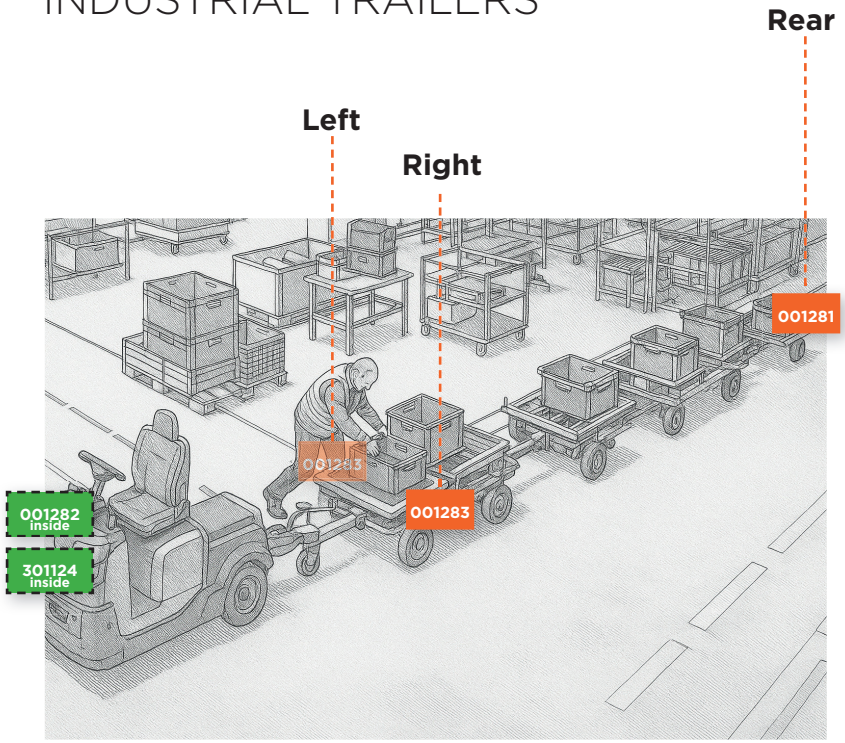
Luisco System application examples

INDUSTRIAL TRAILERS



During industrial transport between production areas, **articulated vehicles used for transporting large, medium, and small-sized goods can reduce visibility,** increasing the risk of accidents during maneuvers and movements.

LUISCO solutions continuously monitor critical operational areas, **enhancing safety for the driver and operators moving in transit areas.**

Installed on industrial articulated vehicles, the system integrates an onboard control monitor and an RX acoustic receiver, **providing continuous visibility of blind spots and real-time audio alerts for obstacles or the presence of people.**

The LUISCO EDGE AI TX module, mounted at the rear, detects pedestrians or obstacles and transmits **acoustic alarms, images, and voice messages directly to the RX monitor in the cab, facilitating immediate coordination between the operator and the external area.**

Two side cameras complete the system, **ensuring control of blind spots** along the sides of the vehicle, allowing the detection of vehicles or operators, and safely supporting maneuvers in tight curves, complex junctions, or intersection areas between departments.

Recommended solution

001298

LUISCO KIT 270° (Model **LS270**)


***001281** - LUISCO EDGE AI TX


001282 - LUISCO RX


***001283**- LEFT SIDE CAM


***001284** - RIGHT SIDE CAM

301124.V1- MONITOR TOUCH

*Wireless systems with magnetic mounting

SMART PREVENT

Registration and monitoring via dedicated portal

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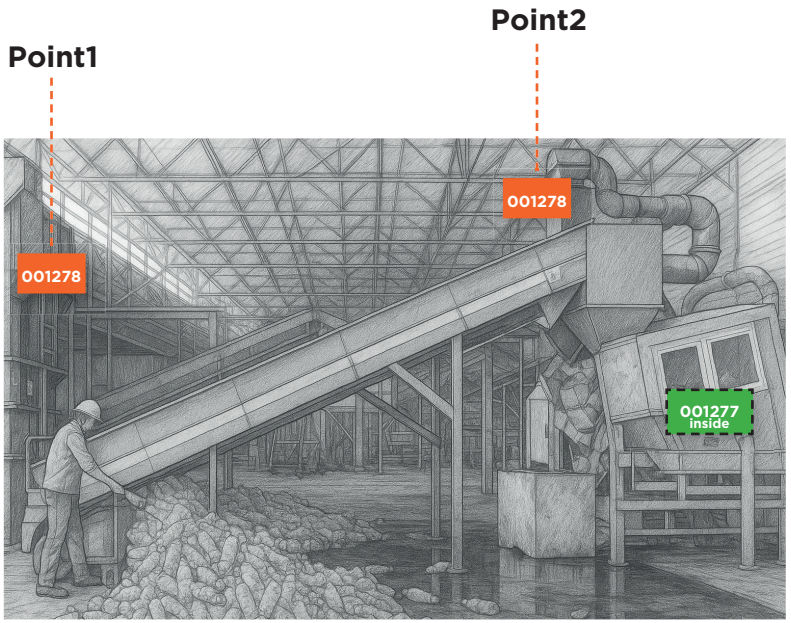
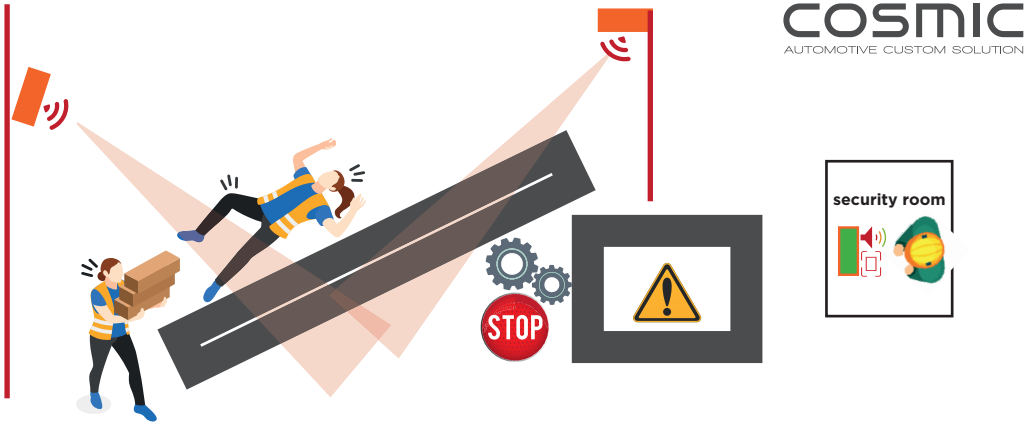
Luisco System application examples

INDUSTRIAL CONVEYOR BELTS





In industrial settings, where conveyor belts move materials continuously, **the risk of interference between operators and transport lines is high, especially in loading, unloading, and transit areas.**

LUISCO solutions offer **an advanced monitoring and protection system** for operational areas through the use of GRAY BOX EDGE AI TRANSMITTERS.

Installed at critical points along the conveyor belts, the GRAY BOX units constantly monitor the area via an integrated camera. The system detects the presence of operators approaching or entering "risk zones," such as the moving belt.

When presence is detected in a critical area, the system automatically triggers a stop signal, immediately halting the conveyor belt.

In addition to the mechanical stop, the GRAY BOX units **can send visual and acoustic alerts to notify nearby personnel and communicate in real time about any abnormal situations.**

This LUISCO solution helps reduce operational risks in industrial areas, improving overall safety in handling processes and providing dynamic, adaptive protection to movements within work zones.

Recommended solution

001279

LUISCO KIT MONITOR 7" DUAL SWITCH EDGE GRAY BOX (Model **LSDSK**)

001278
LUISCO GRAY BOX
EDGE AI TRANSMITTER

001278
LUISCO GRAY BOX
EDGE AI TRANSMITTER

(2X) 001250 - LUIS EDGE
EXTENSION CABLE 3MT

***001277**
MOBILE MONITOR 7"
DUAL SWITCH RX

001202 - AI TOOLING KIT

LUISCO KIT MONITOR 7" Fixed installation
001279/220V
Available in a fixed installation version
with 220V power supply.

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001297 - 001298 - 001280**

SMART PREVENT
Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

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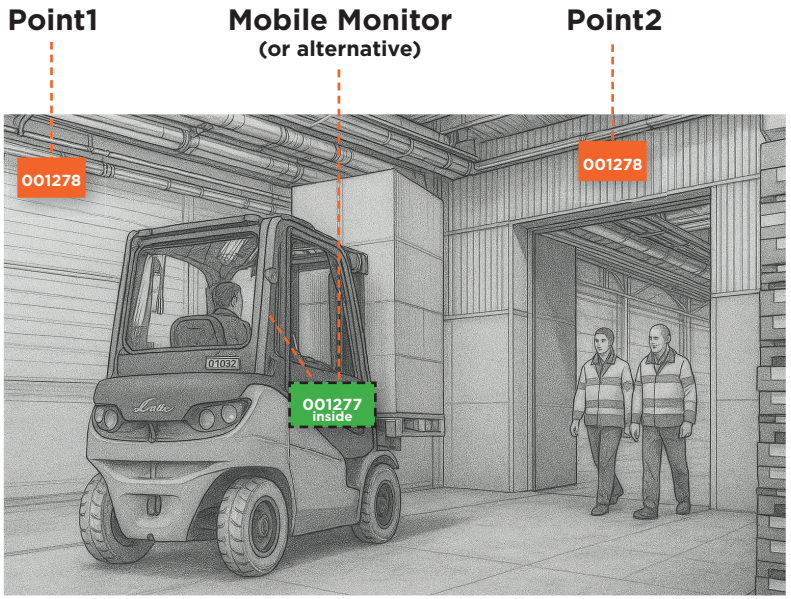
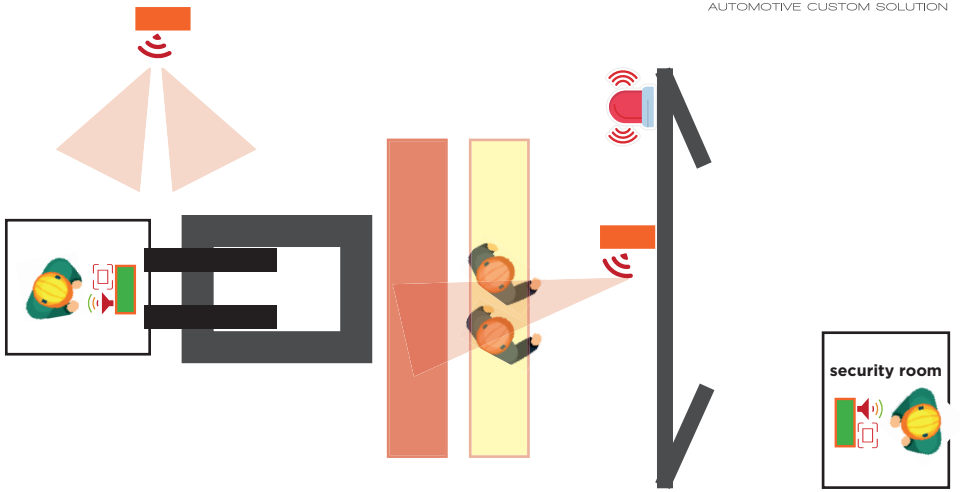
Luisco System application examples

FIXED APPLICATIONS FOR INDUSTRIAL AREA MONITORING





In industrial areas dedicated to the transport of bulky loads, **the reduced visibility of forklifts increases the risk of collisions,** especially at passage points and touch zones.

The LUISCO system, through the GRAY BOX EDGE AI TRANSMITTERS **installed along critical paths, monitors in real time the presence of pedestrians and obstacles.**

Upon detecting a hazardous situation, **the system can activate the automatic slowing or stopping of the vehicle, improving operational management and preventing accidents.**

In addition to intervening on the forklift's movement, **the GRAY BOX units emit acoustic and visual signals to alert the driver and nearby operators,** enhancing overall safety in loading, unloading, and interdepartmental connection areas.

Recommended solution

001279

LUISCO KIT MONITOR 7" DUAL SWITCH EDGE GRAY BOX (Model **LSDSK**)

001278
LUISCO GRAY BOX EDGE AI TRANSMITTER

001278
LUISCO GRAY BOX EDGE AI TRANSMITTER

(2X) 001250 - LUIS EDGE EXTENSION CABLE 3MT

***001277**
MOBILE MONITOR 7" DUAL SWITCH RX

001202 - AI TOOLING KIT

LUISCO KIT MONITOR 7" Fixed installation

001279/220V

Available in a fixed installation version with 220V power supply.

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001297 - 001298 - 001280**

SMART PREVENT

Registration and monitoring via dedicated portal

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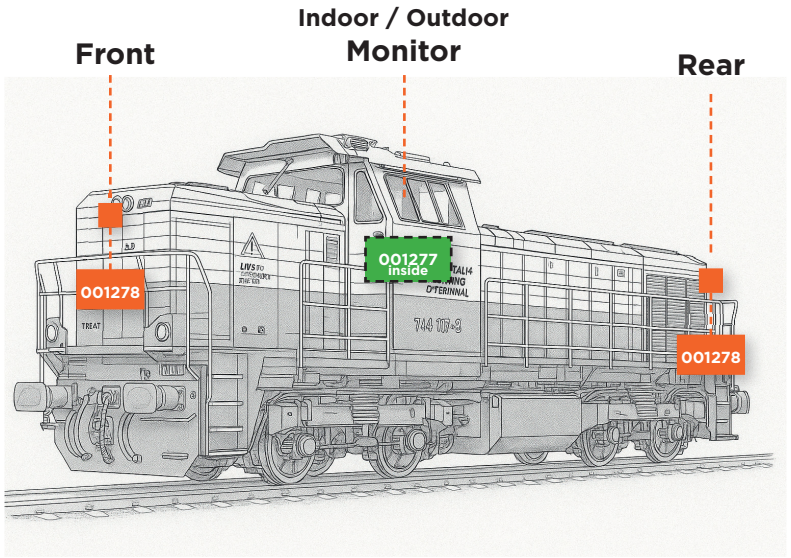
Luisco System application examples

RAILWAY LOGISTICS



In the railway transport sector, LUISCO solutions enable continuous **monitoring of the sides of the locomotive during light maneuvers and slow movements within the railway logistics area.**

In this configuration, two GRAY BOX EDGE AI TX **transmitters monitor the direction of travel areas,** detecting the presence of people and transmitting real-time information to the portable monitor installed in the driver's cab or to the portable devices of nearby monitoring personnel.

The system facilitates visual control of the lateral areas and supports the operator in safely managing maneuvers, **reducing the risk of accidents during approach phases, movements on service tracks, and low-speed operations.**

Recommended solution

001279

LUISCO KIT MONITOR 7" DUAL SWITCH EDGE GRAY BOX (Model **LSDSK**)

001278
LUISCO GRAY BOX EDGE AI TRANSMITTER

001278
LUISCO GRAY BOX EDGE AI TRANSMITTER

(2X) 001250 - LUIS EDGE EXTENSION CABLE 3MT

***001277**
MOBILE MONITOR 7" DUAL SWITCH RX

001202 - AI TOOLING KIT

*Wireless systems with magnetic mounting

Alternative solutions (KIT): **001297 - 001298 - 001280**

SMART PREVENT
Registration and monitoring via dedicated portal

LUIS TECHNOLOGY

AUTOMAR SPA - Case study

AUTOMOTIVE LOGISTICS

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21/02/2025

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LUISCO SYSTEM: Intelligent safety

LUISCO systems offer effective solutions for a wide range of operational applications addressing control and safety challenges in every context.

Our technology stands out for:

- Superior material quality
- Innovation in applied technologies
- Completely wireless solutions, easy to install, modular, and adaptable

LUISCO is ready-to-wear safety, designed to make even the most complex installations simple, fast, and reliable.

We evaluate and analyze every situation where easy, dynamic, and scalable safety control is required.

Thanks to the developed technology and the experience gained in the field, we are able to create the most suitable system for every need, always ensuring protection, efficiency, and flexibility.

Video
Case History

Web
Dedicated Page