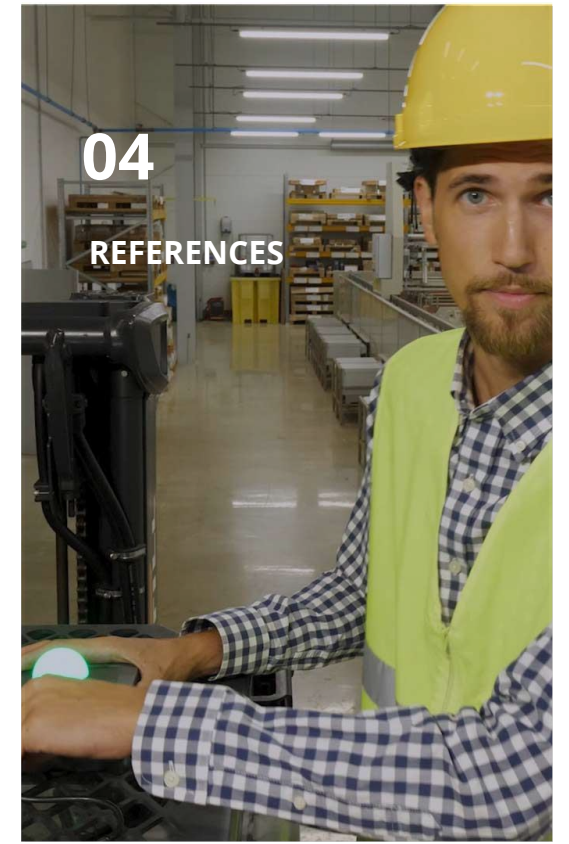
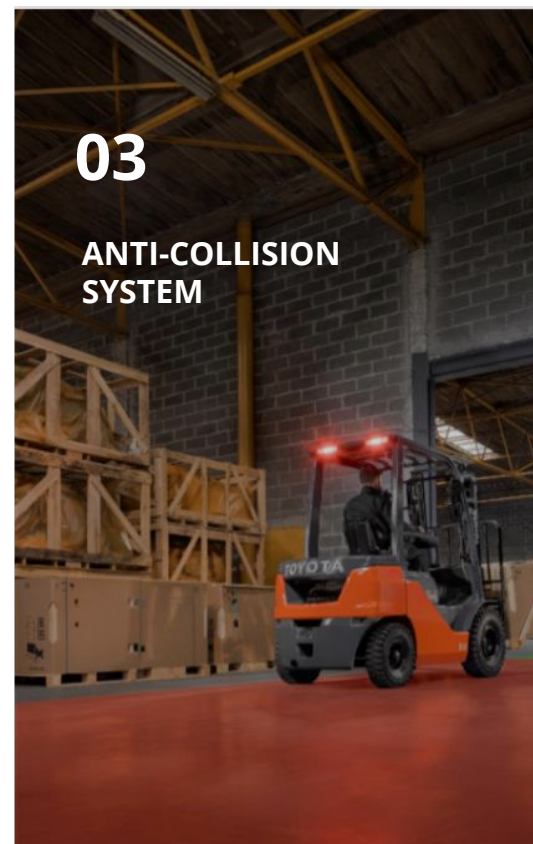
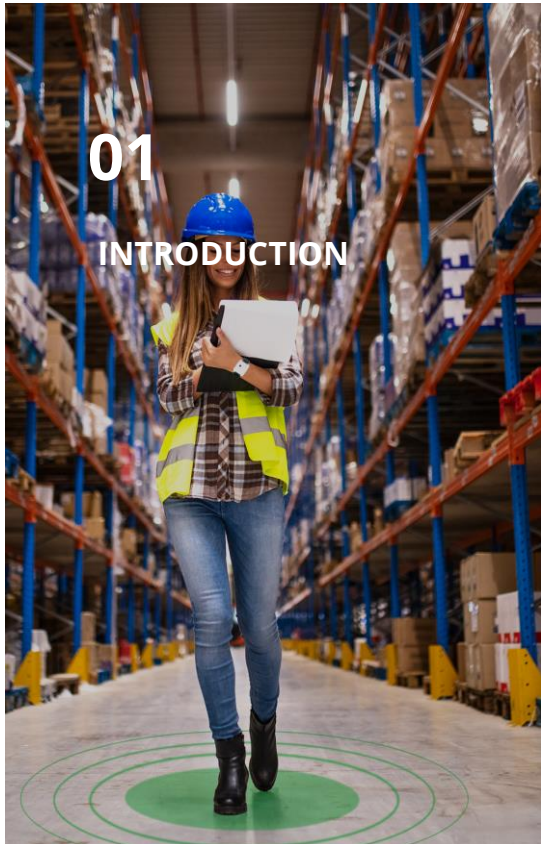




GENERAL OVERVIEW

www.alis-tech.com

AGENDA



ALIS Tech

Introduction

VIDEO
SYSTEM ALIS

INTRODUCTION

ALIS Tech

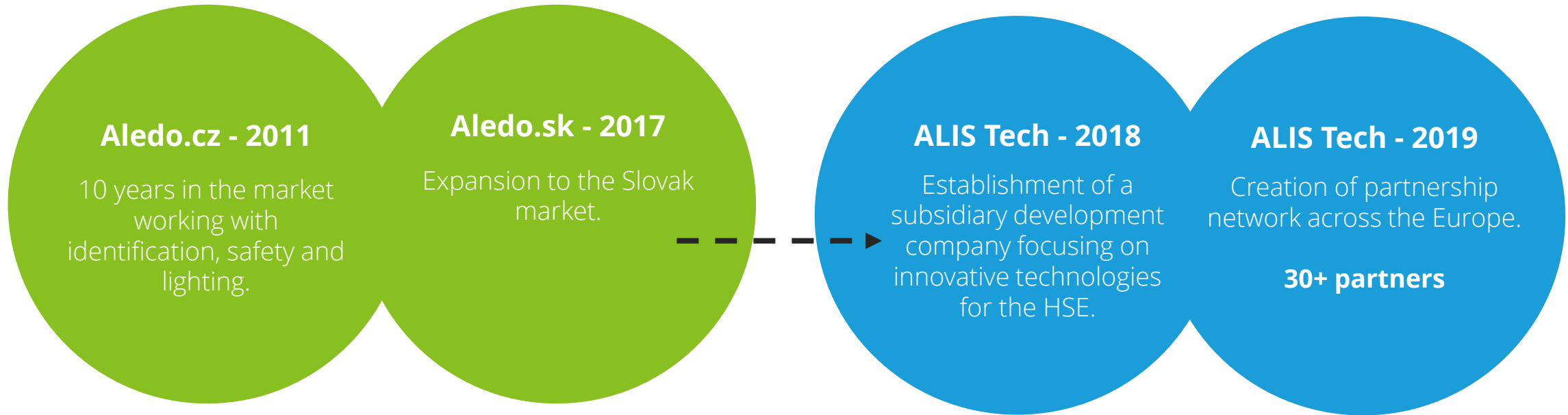
Based in Brno - The Czech Republic
Heart of Europe

„By bringing innovations into the safety culture, we help to save human lives in all environments“

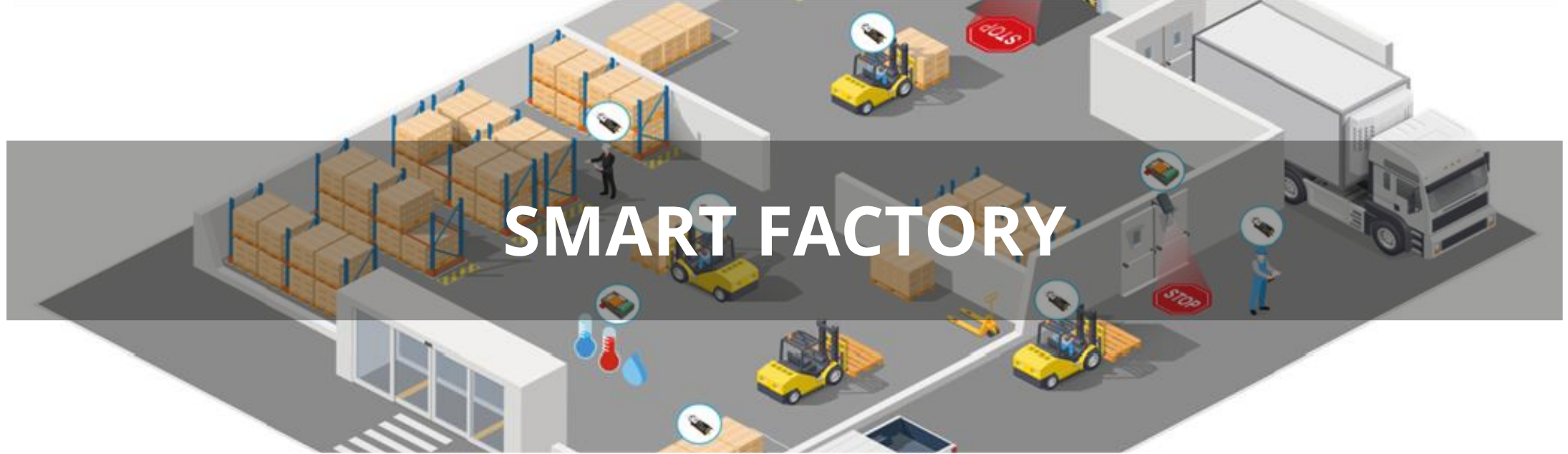


HISTORY

10 Years of experiences



1 000+ realized projects;
400+ customers



LED FLOOR MARKING

- Industrially designed LED projector.
- Illuminates any type of symbol, text, in any color.
- Compatible with anti-collision system.

ANTI-COLLISION SYSTEMS

- Peer-to-peer solution based on UWB technology.
- Vibration warning for pedestrians.
- Attention of drivers by opto-acoustic signalization.
- Deceleration of vehicles.

RTLS

- Localization of people, vehicles, asset.
- Indoor and outdoor usage.
- Optimization of processes.
- Increase of production efficiency.

ALIS VISUALIZATION

LED floor marking

10 YEARS AGO

LED industrial marking



By listening to the customers' needs...

...we discovered all the gaps in this field.

LED FLOOR MARKING

LED your safety shine

- **LED PROJECTOR**

Awareness of danger by visual notification.

Non stop shining / blinking / pulsing.

- **INTELLIGENT ACTIVATION**

Switching on/off the signs according to MHE or pedestrian movement.

Dynamically controlled pedestrian walkways or other industrial floor marking.



WHY TO USE LED FLOOR MARKING

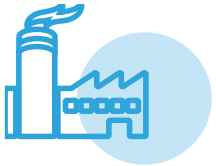
Advantages LED floor marking

- Elimination of operational blindness.
- Projection activated based on the motion of pedestrian/MHE.
- Illumination of standard ISO symbols and custom designs.
- Visualization of the danger zone around the suspended load.
 - Visualization of the load's and hook's position.
 - Activation of the zone when the crane is moving.



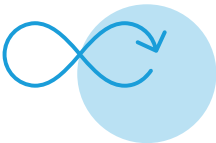
WHY TO USE ALIS LED PROJECTORS

Advantages

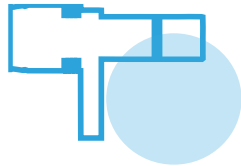


Used for the most heavy and dusty environment.

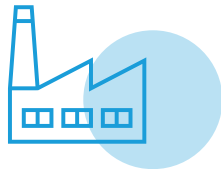
(active/pasive cooling)



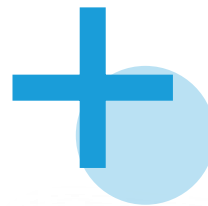
Wide range of lenses and different powers.



Assambled and quality controlled in ALIS Tech.



Own glass production.



We can make it smart.





SMART PARABOLIC MIRROR

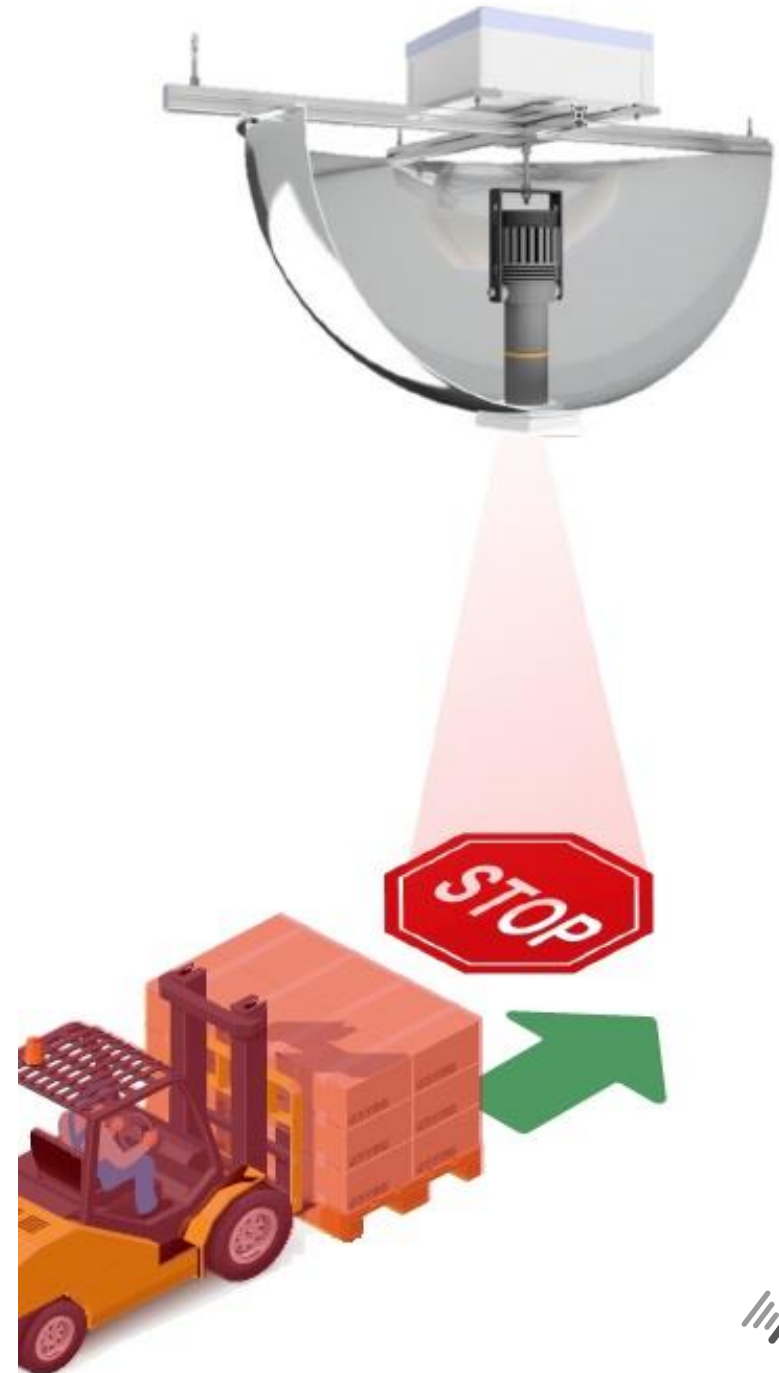
The interactive element of HSE

SMART PARABOLIC MIRROR

The interactive element of HSE

TECHNICAL SPECIFICATION

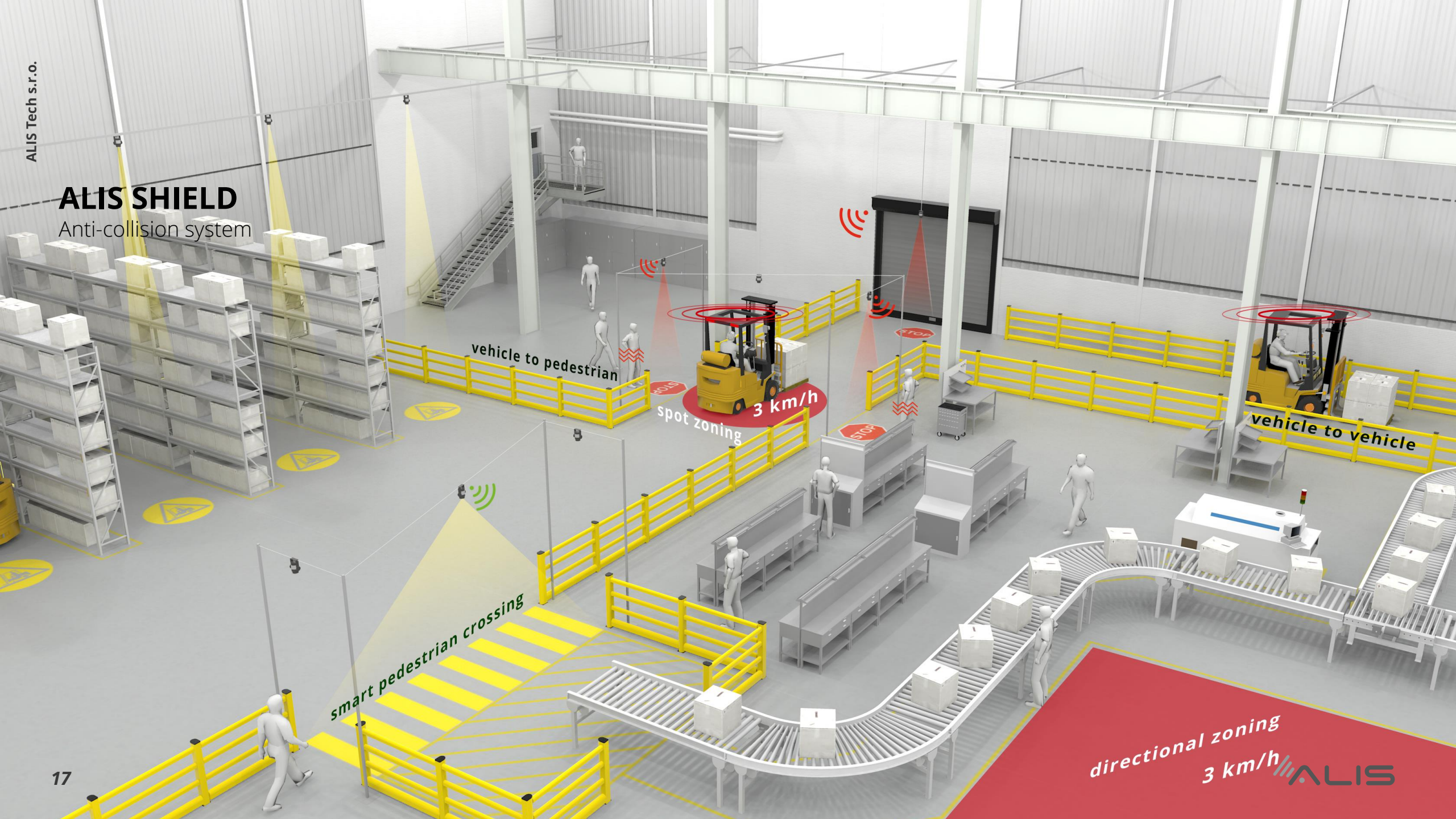
dimensions	Ø 100 [cm] standard / Ø 80 [cm] / Ø 120 [cm]
material	acrylate, polyacrylate
features	pedestrian and vehicle detection; detection of direction of travel; LED floor marking activation (detection range up to 12 m)
signalization	direction indicator light
light marking	lighting / pulsing / blinking activation of the LED projector at the moment of detection of the MHE in the intersection



ALIS SHIELD
anti-collision system

ALIS SHIELD

Anti-collision system



vehicle to pedestrian

spot zoning
3 km/h

vehicle to vehicle

smart pedestrian crossing

directional zoning
3 km/h



ALIS SHIELD

Anti-collision system

- **PERSONAL TAG**

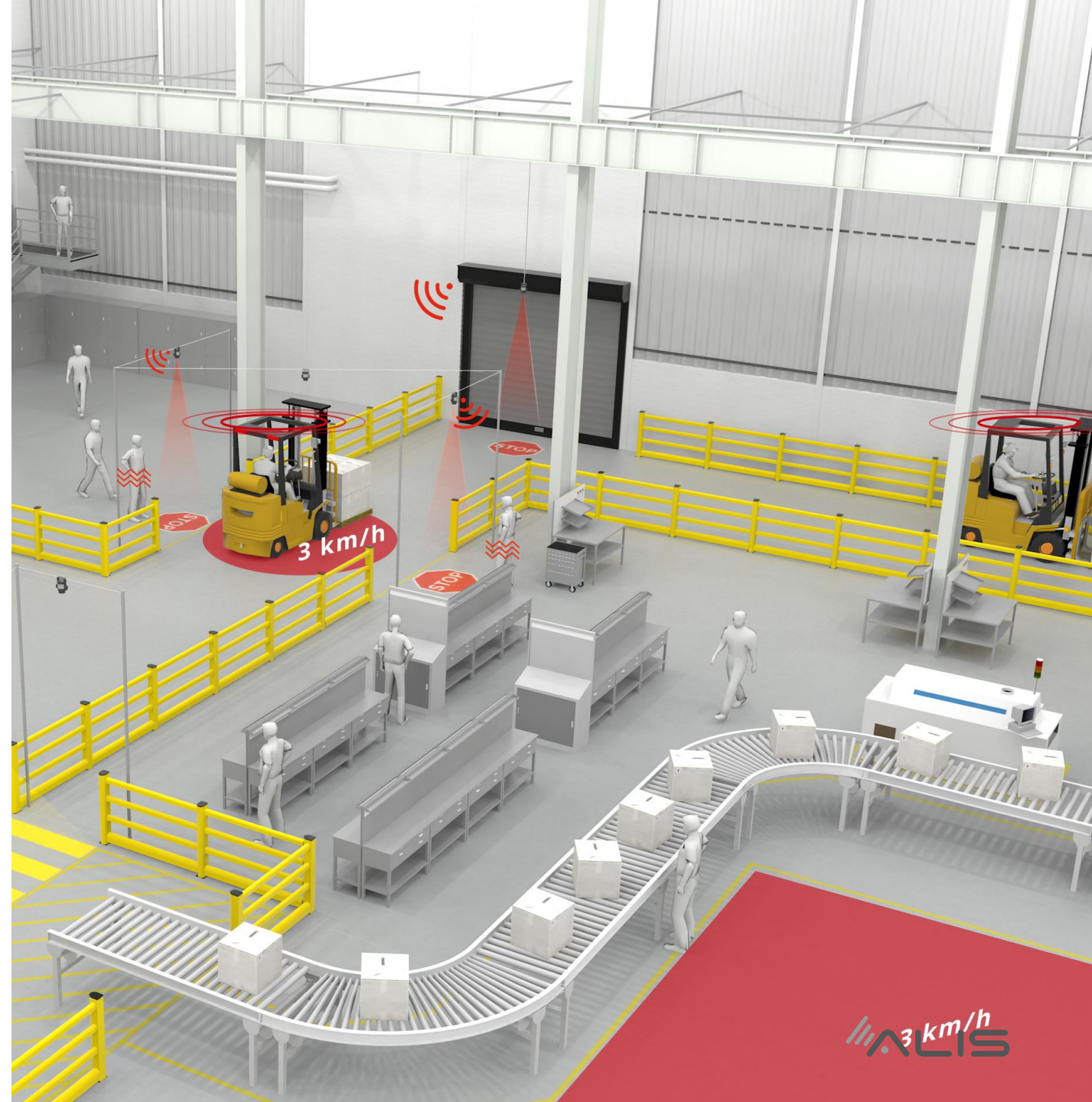
Wrist or card version, vibration possibility, added RFID for extended and more complex utilization.

- **VEHICLE TAG**

Slows down in a predefined zone.
Slows down against vibration wrist.
Slows down against another forklift.
Electrical devices control in predefined zone.

- **ZONE READER**

Defining zone for slow down and electrical devices control. Statistics forklifts flow through a predefined area.



Global advantages of UWB anti-collision system

Material Handling Equipment (MHE) and pedestrian protection

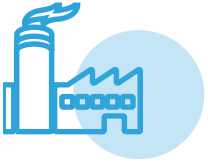
- Reduce near-misses in operation, downtime caused by forklift related accidents;
- Saves the cost of work accidents (compensation, insurance, property repair costs);
- Saves the cost of absenteeism for employees who were involved in work accidents caused by forklifts;
- Wireless communication of units without the need for eye contact with each other.

- **Serious injury total 34,900 annually, non-serious injuries related to forklift accidents reach 61,800 each year.**
- **According to OSHA about 70% of forklift accidents could be prevented.**

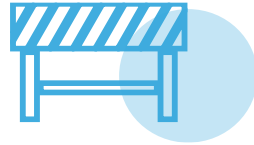


WHY TO USE ALIS SHIELD

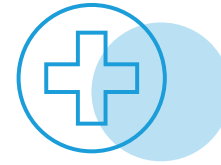
Advantages



Indoor/outdoor use for material handling and pedestrians.



Communication with el. devices such as doors; gates; etc.



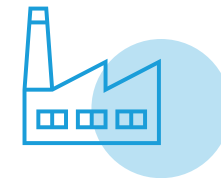
Extendable by S.O.S. button for death man position.



ATEX certification; IP 67 cover of personal tag.



Web/mobile app for easier setting change.



Complex solution under one roof.

SYSTEM ALIS

Basic units

Diagnostic unit

Web/mobile app

Zone reader device

Vehicle smart tag

Vehicle activator



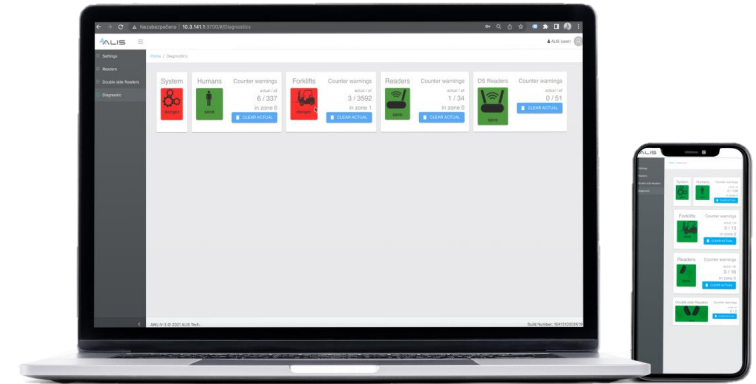
Cabine signalization



Personal tag



AI anti-collision camera



WHY TO USE ALIS SHIELD

Used technology



- Thanks to the combination of all above wireless technologies we build tailored-suit solutions.

WHY TO USE ALIS SHIELD

Material Handling Equipment (MHE) protection

- Opto-acoustic signalization inside the cabin, vibration and acoustic alert for a person.
- Immunity functionality for system deactivation.
- MHE speed reduction in 2 phases (warning and danger zones) towards other MHE or pedestrian.
- Indoor/outdoor zoning or spot deceleration system.
- Compatible with all MHE manufacturers (experience with Toyota, Linde, STILL, Jungheinrich, Yale, Ceit, and Mitsubishi).
- Personal tag with alert distance up to 30 m.



WHY TO USE ALIS SHIELD

Diagnostic tool for personal tag

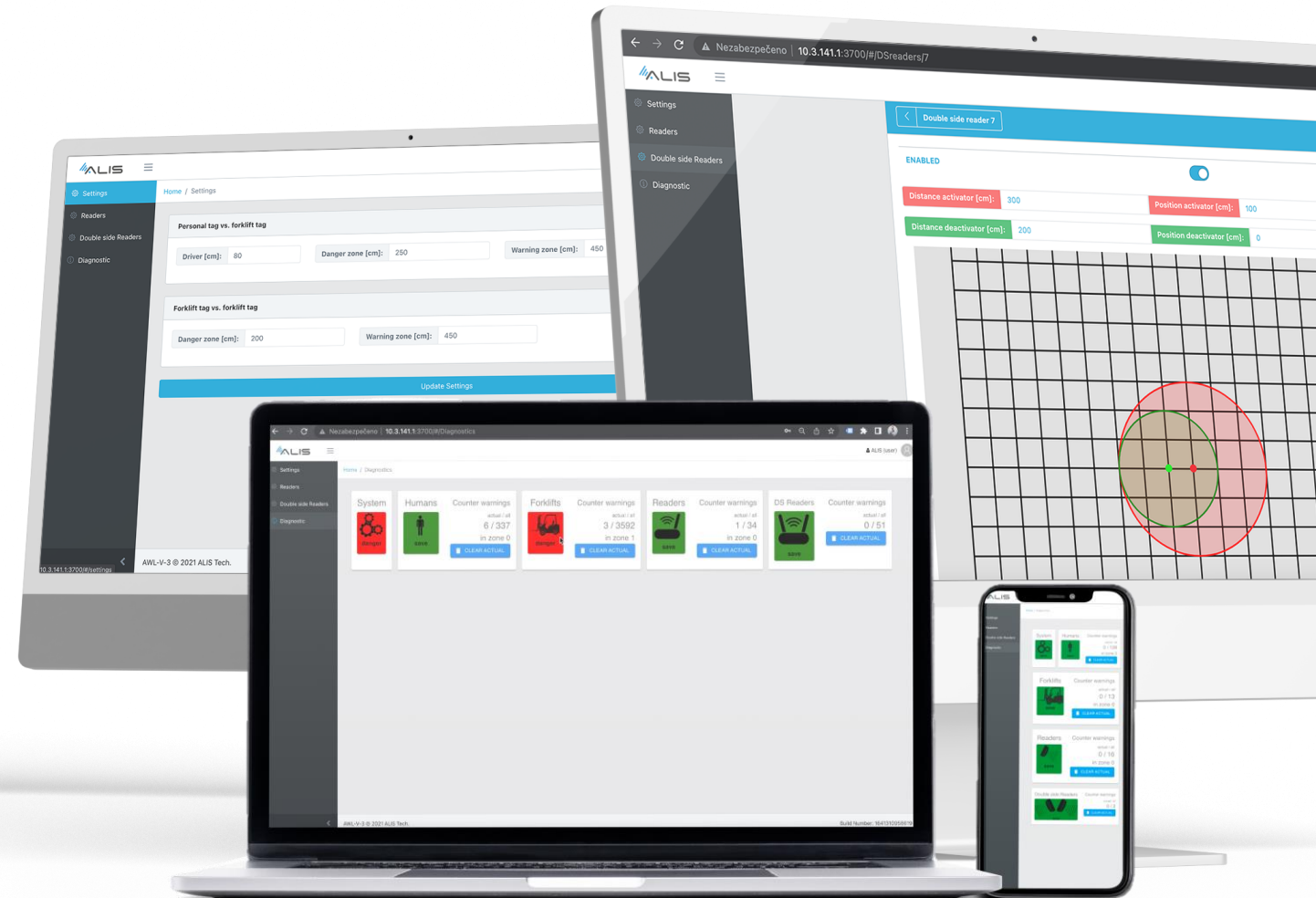
- Immediate control of battery condition of personal tag.
- System check right before shift / visit.



WHY TO USE ALIS SHIELD

Mobile/Web app

- Easy mobile/web app through the web browser.
- Immediate system change and diagnostic tool for system functionality check.
- Configuration of the following parameters:
 - **Vehicle Performance**
 - Automatic slowing down against:
 - A) Other vehicle;
 - B) pedestrian;
 - C) in zones.
 - Switch on/off safety signs.
 - **Environmental Condition**
 - Setting of the critical zones.



ANTI-COLLISION SYSTEM

Safety anti-collision bar

SAFETY ANTI-COLLISION BAR

- The anti-collision safety bar is used to ensure a safe travel under lowered profiles and prevents against any accidents due to excessively raised load



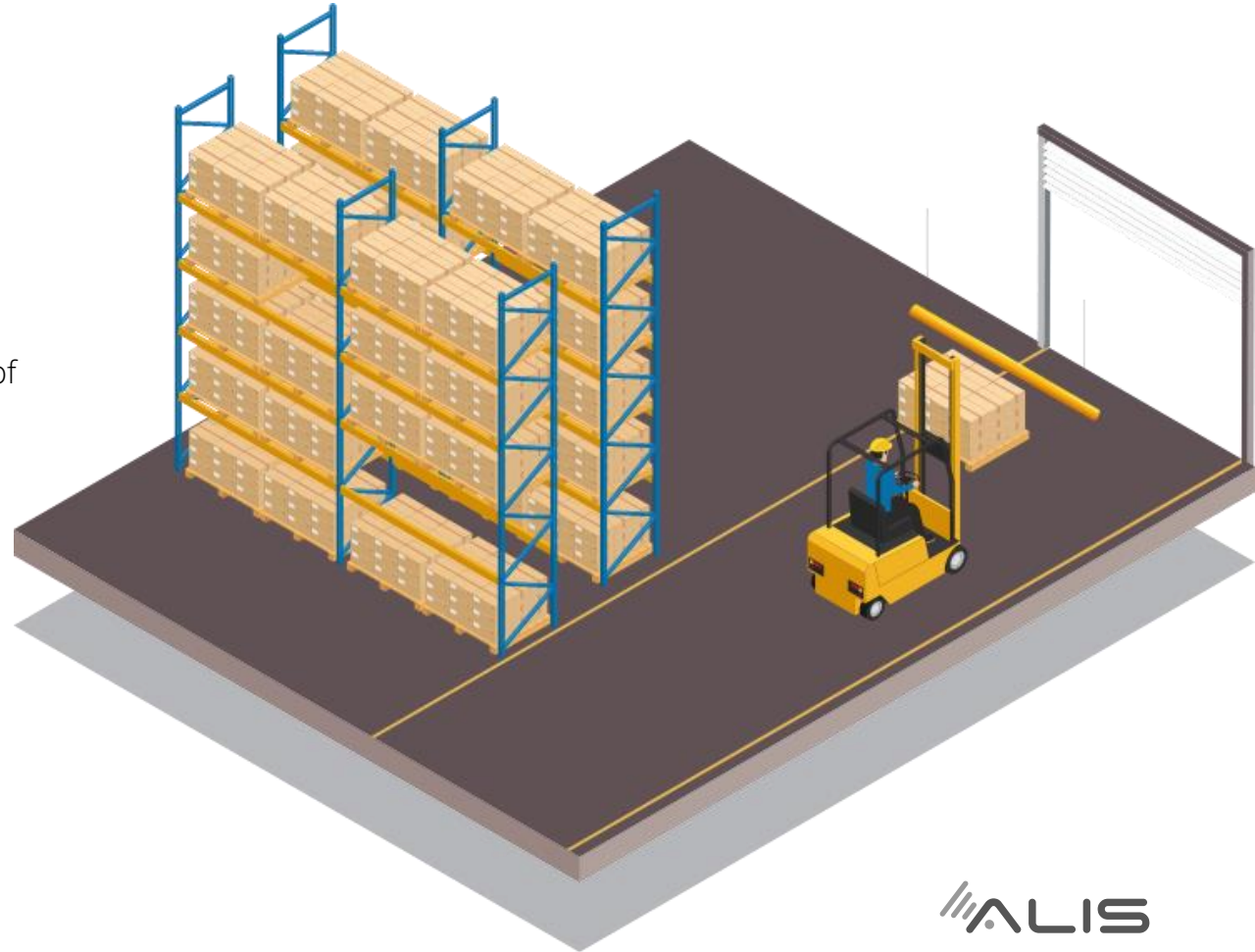
- company property protection
- interactive safety element
of industrial door



acoustic signalization of
excessively high loads

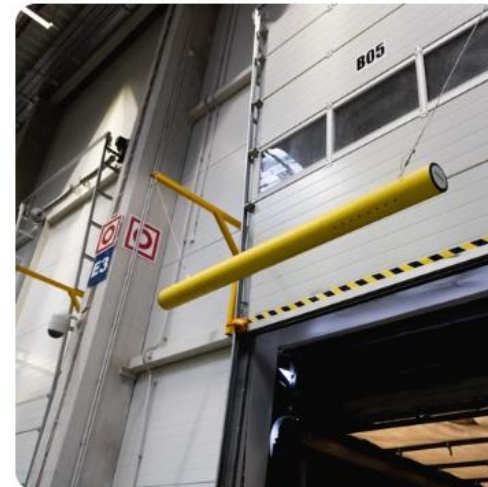
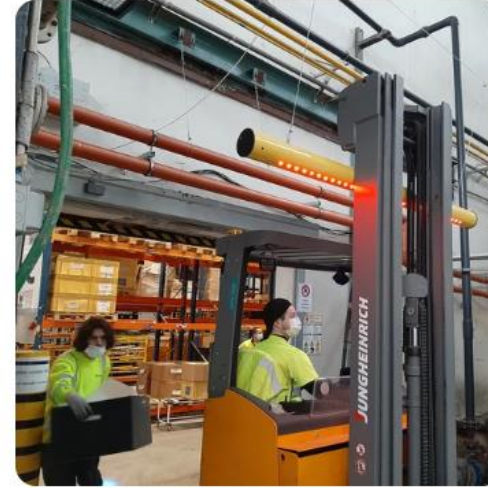


LED lights signaling the
excessively high loads



SAFETY ANTI-COLLISION BAR

- The system warns of an excessively raised load that would hit against an obstacle in front of the installed anti-collision safety bar, if the height remains unchanged. After this set-up time lapses the anti-collision safety bar is switched automatically to the quiet mode and is ready for the next impact.



REFERENCES

30+ partners, 400+ customers, 1 000+ projects



50 | Technology **Fast 50**
2021 CE **LAUREATE**
Deloitte.

Laureate of the 2021 Deloitte
Growth Star awards





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