V2S
Vehicle Safety Solutions
www.V2S.eu

Making industrial operations safer and more resilient

Lopos
imec
GHENT UNIVERSITY

Trusted by

Vehicle Safety Solutions
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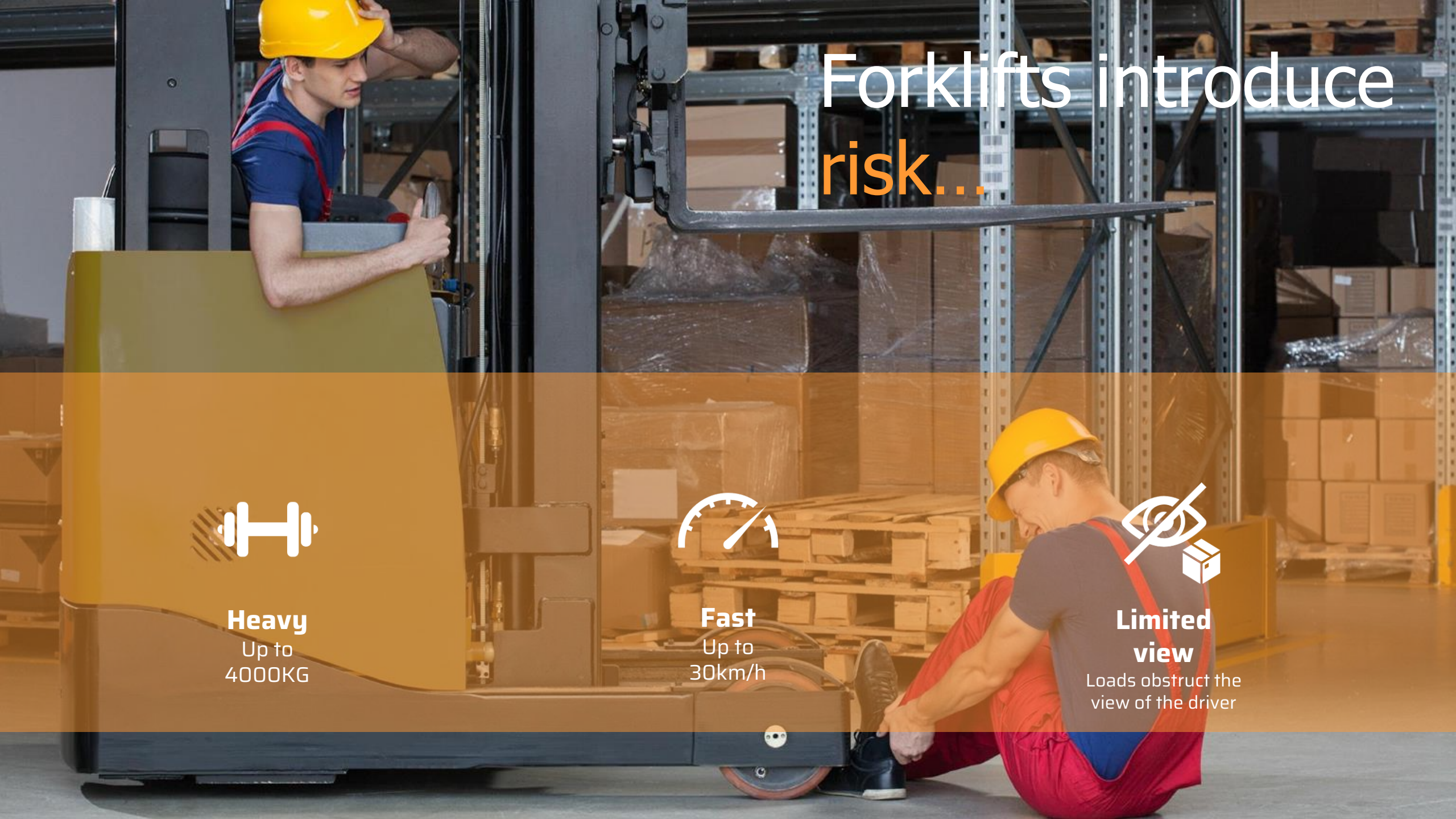
Start reducing forklift incidents today.

Forklifts introduce risk...

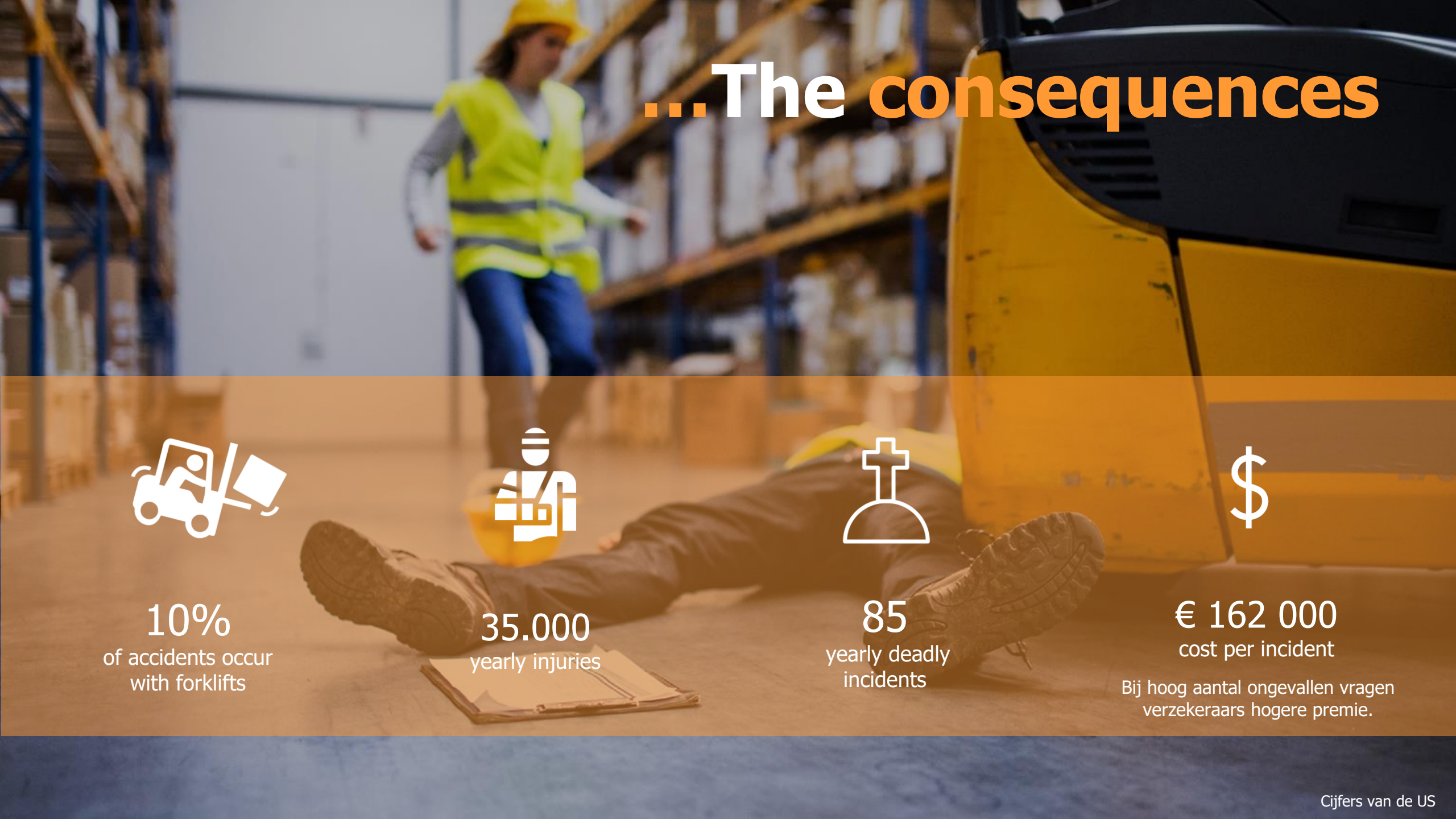


Heavy
Up to
4000KG

Fast
Up to
30km/h

Limited view
Loads obstruct the view of the driver

...The consequences



10%
of accidents occur with forklifts

35.000
yearly injuries

85
yearly deadly incidents

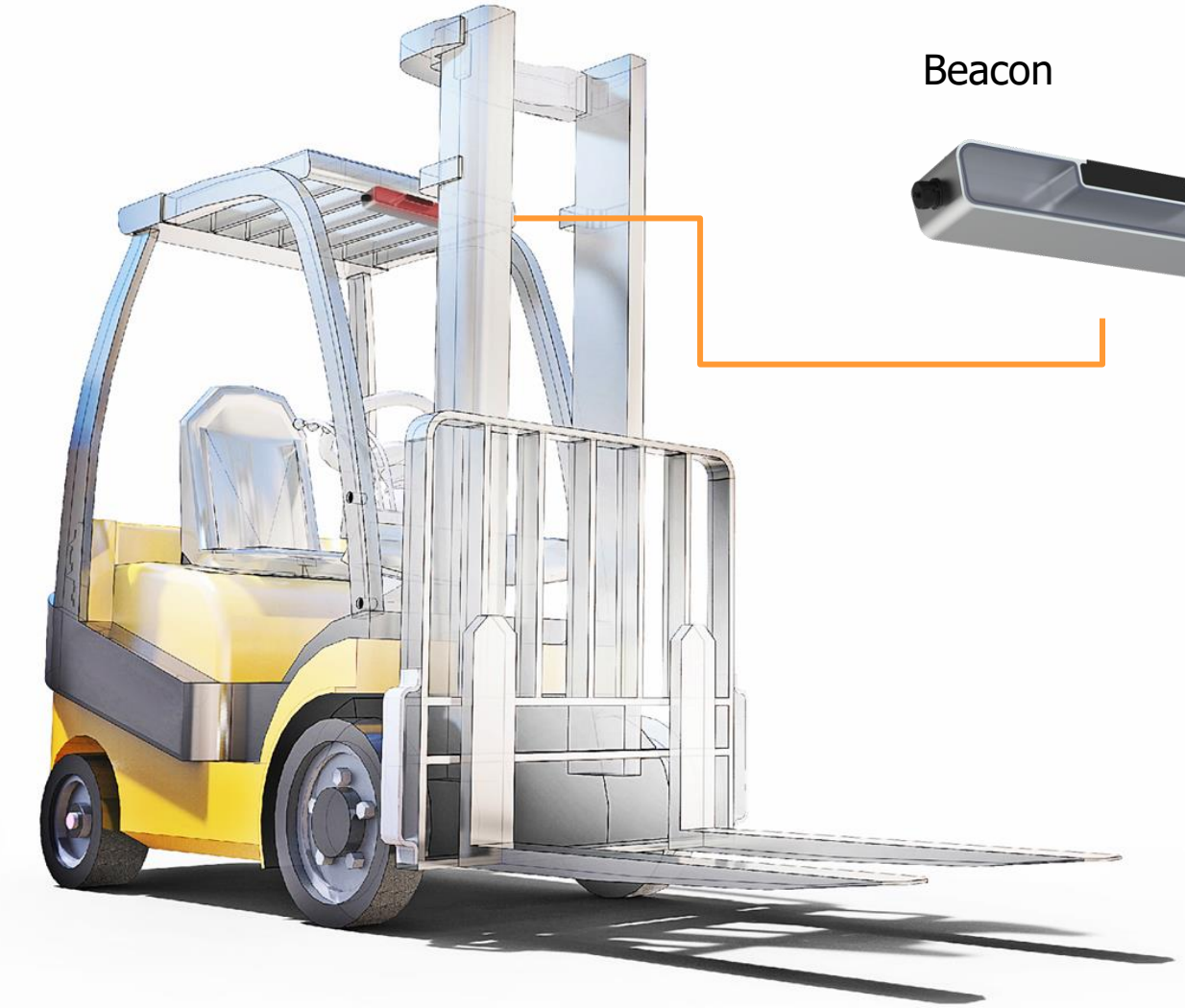
€ 162 000
cost per incident

Bij hoog aantal ongevallen vragen verzekeraars hogere premie.

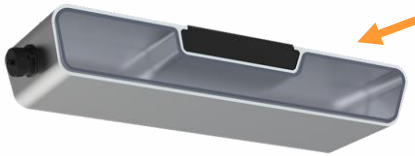
Cijfers van de US

Keep your employees safe with
LoposAlert collision warning

How does it work?



Beacon



Distance measurements

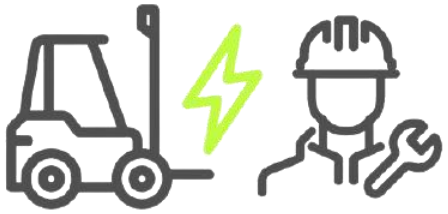
Wearable

Dashboard

What about the operator?

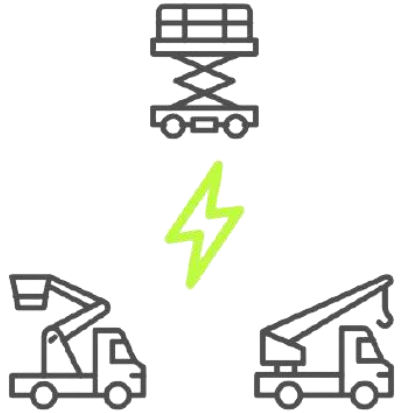
- The distance between the wearable of a worker and the beacon on the forklift, will define if the worker is an operator or not
- If operator = no distance warnings (operator – beacon)
- Operator becomes pedestrian when leaving the forklift
- Very intuitive, no action required from the operator.

How can you use it?



Forklift to workers alerts

Forklift to forklift alerts



Other vehicles and equipment

Vehicle Safety Solutions
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Alert features

Immediate Feedback
Audible, (vibration) and LED

Accurate UWB technology
UWB

Battery life
Bluetooth

Update rate:
10 times per second

No Infrastructure

Configurability
warning distance, type of warning, multiple warnings, …

What can be configured?

Different types of warnings can be set at different distances.

Beacon:

- Sound (type, intensity) - voice recording possible.
- Light (type, intensity)

Wearable:

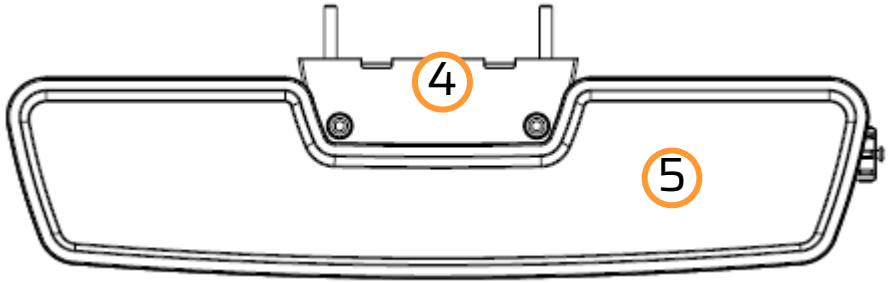
- Sound (type, intensity)
- Light (type, intensity)
- Vibration (type, intensity)

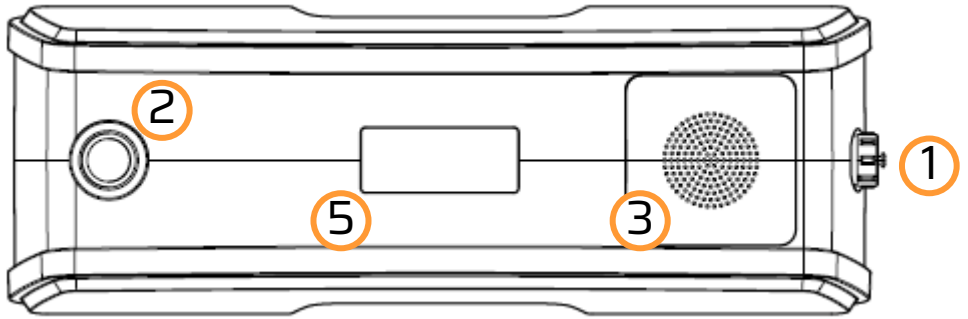
LoposAlert Beacon

Dimensions: 280x100x65 mm
11x3.9x2.56 inch

Weight: ≈ 400g/14.2oz

Power supply: 5-36V





1. **Power supply port**
2. **User button**
3. **Speaker**
4. **Mounting bracket**
5. **LED feedback**

IP67

Wi Fi UWB

Alert Beacon

How to install the beacon?

Powering options:

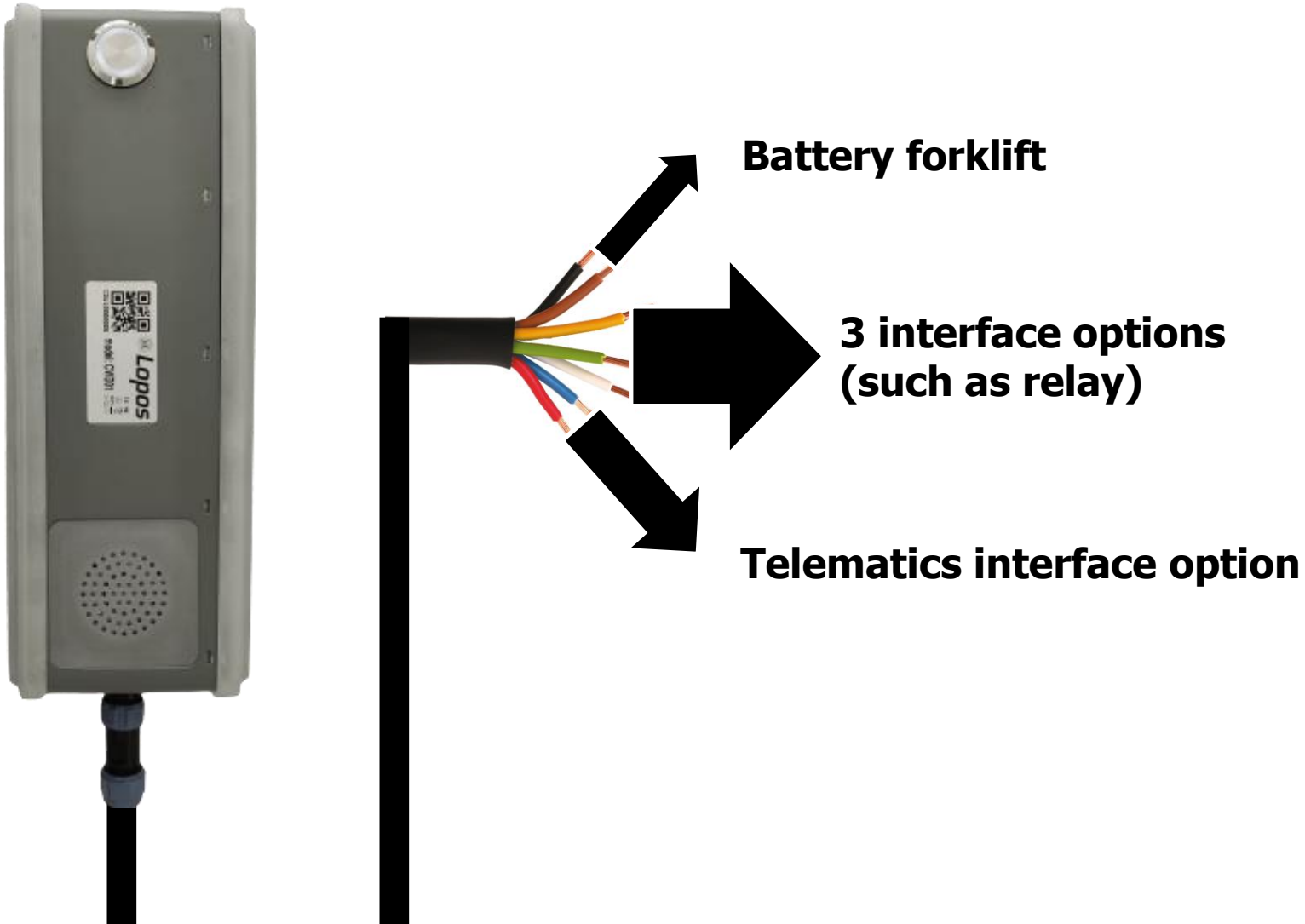
1. Connect through forklift battery
2. External battery
3. Connect through telematics system

Easy installation:

https://www.youtube.com/watch?v=8bF81ZzO9Dw

Electrical interfacing

Open-end/USB/Custom

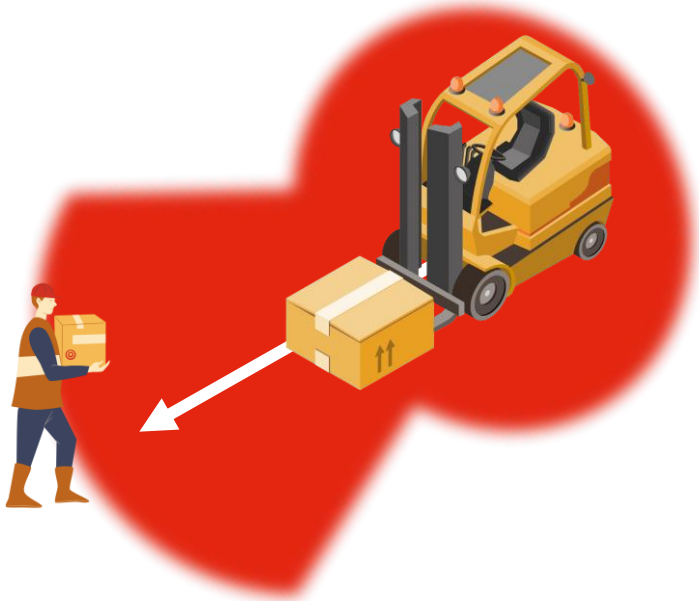


Providing warnings based on direction

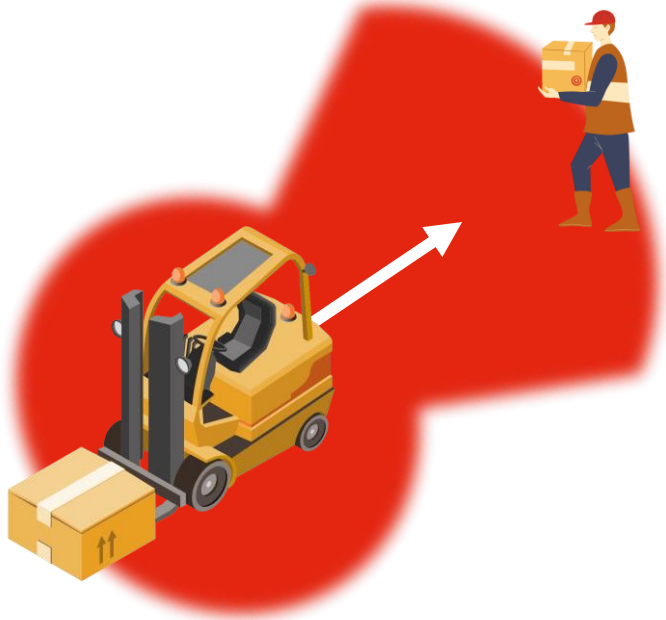
Range expands in the direction you drive. The faster you drive, the greater the range.

Forklift not moving

Forklift moving forward

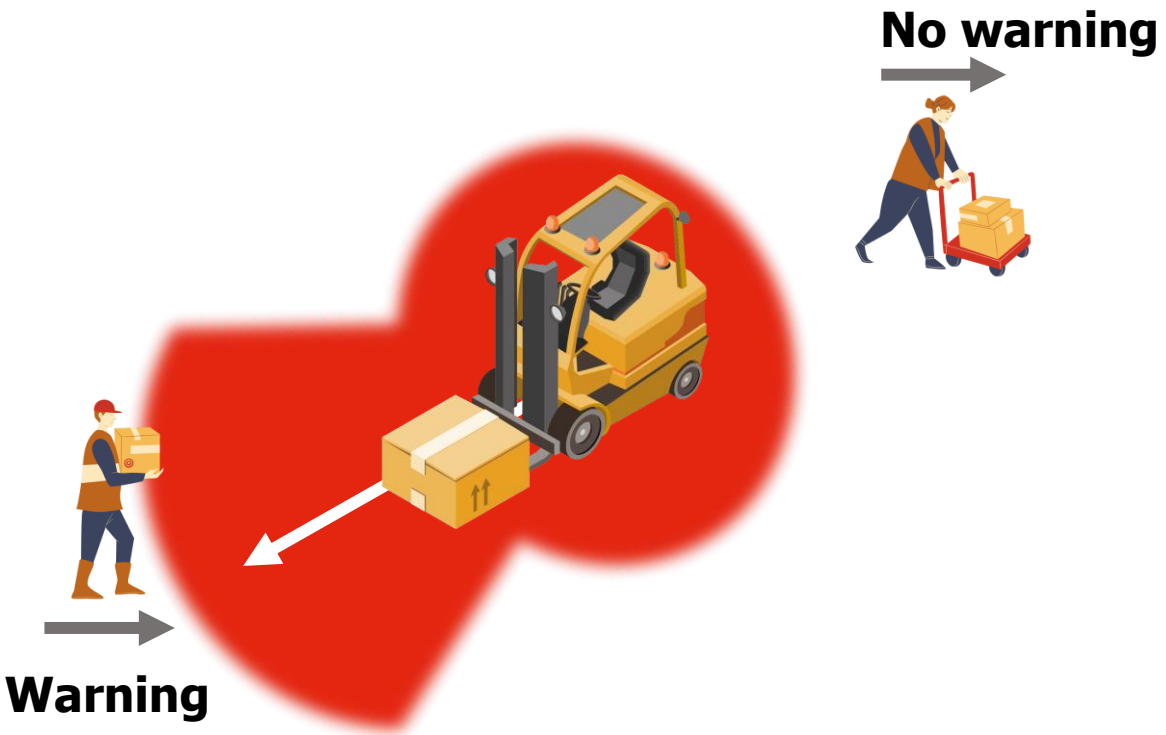


Forklift moving backward



Providing relevant warnings based on relative speed

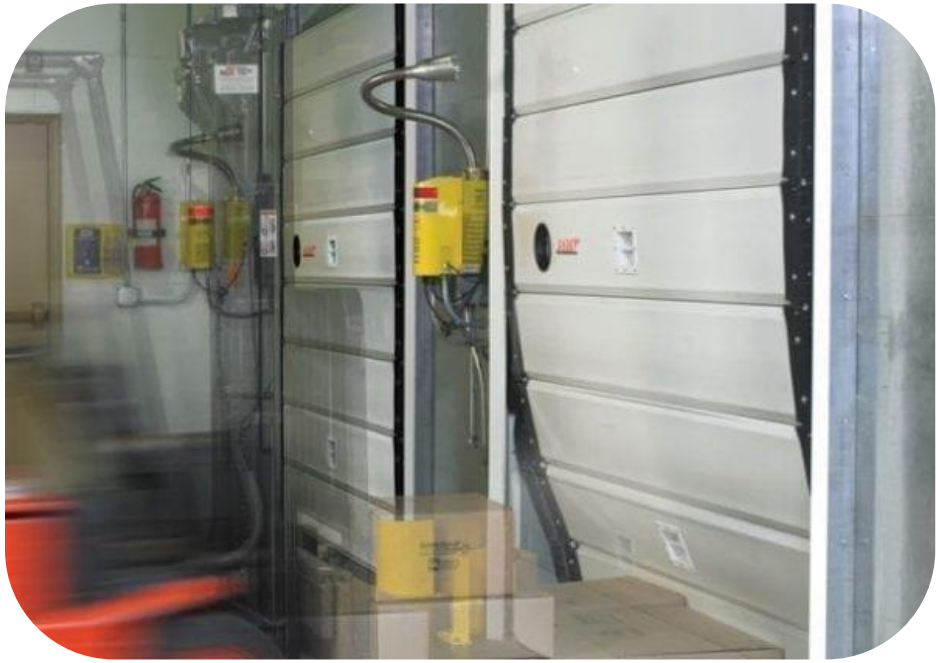
Example of forklift moving forward



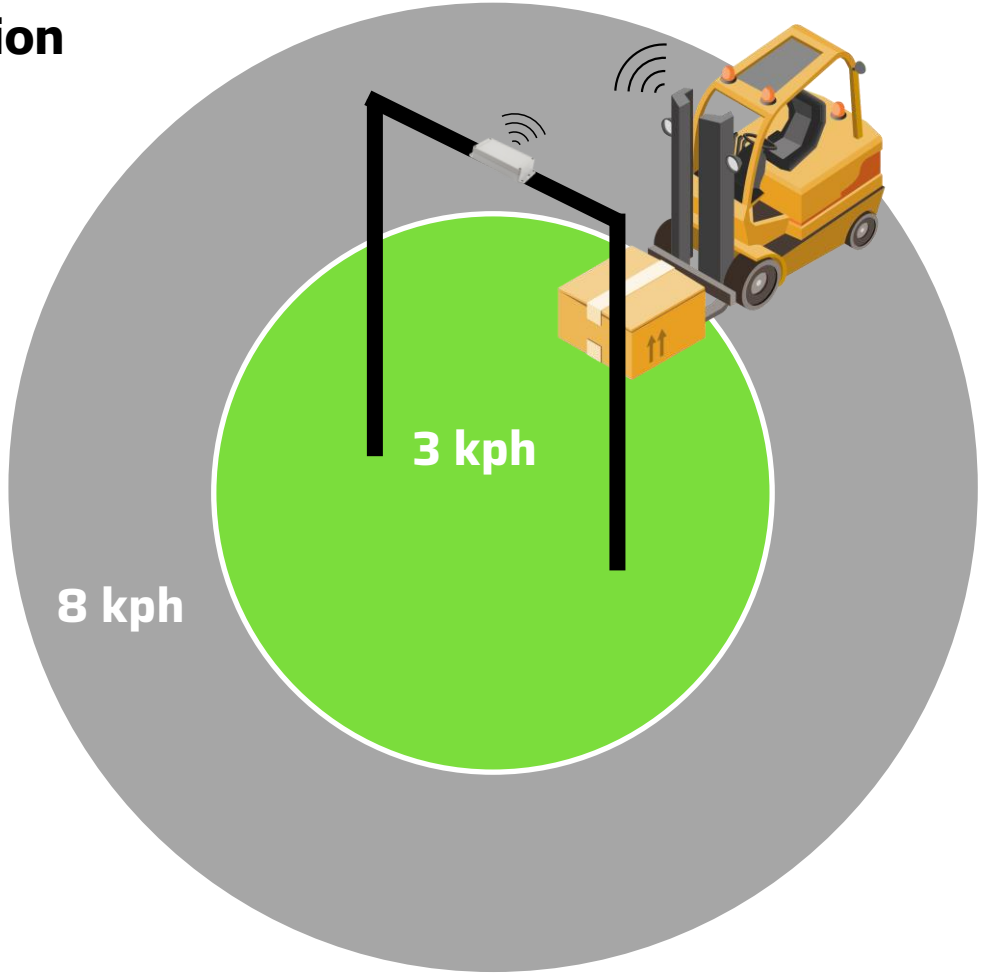
Speed control

Example: gate damage prevention

Problem

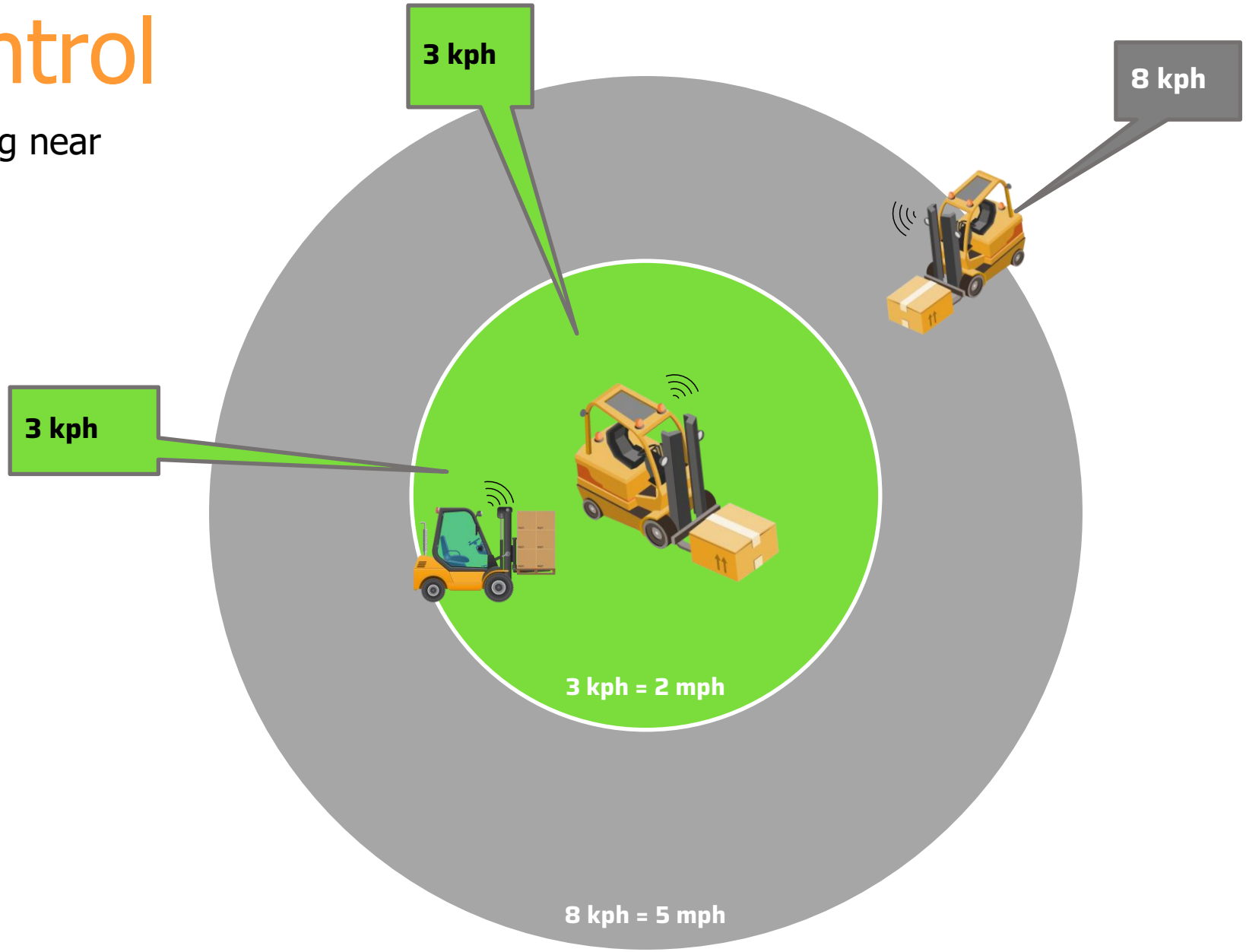


Solution



Speed control

Example: forklifts driving near



PWS wearable

Dimensions: 4,6 x 4,6 x 1,9 cm

Weight: 33g

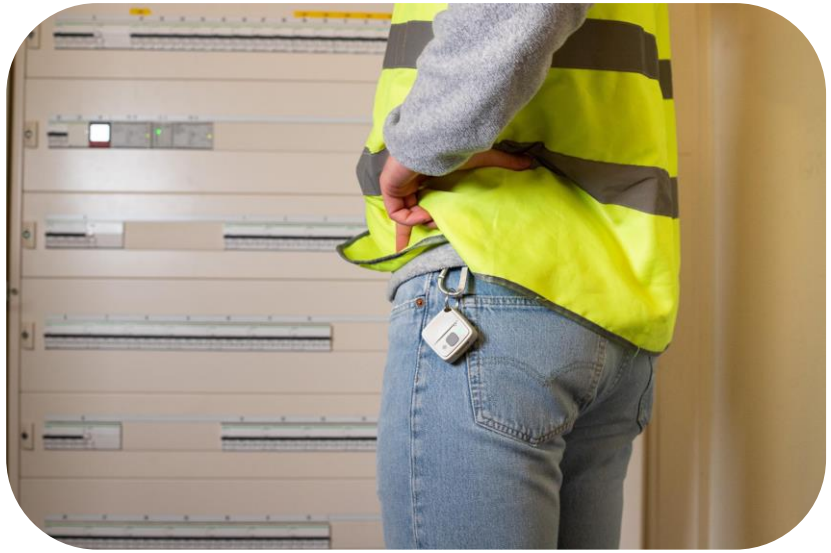
Battery lifetime: 2-5days

1. **Magnetic charging port**
2. **User / configuration button**
3. **Lanyard / belt clip mounting hole**
4. **Alert led**
5. **Configuration led**
6. **Vibration and sound warning**

IP64

UWB FC CE

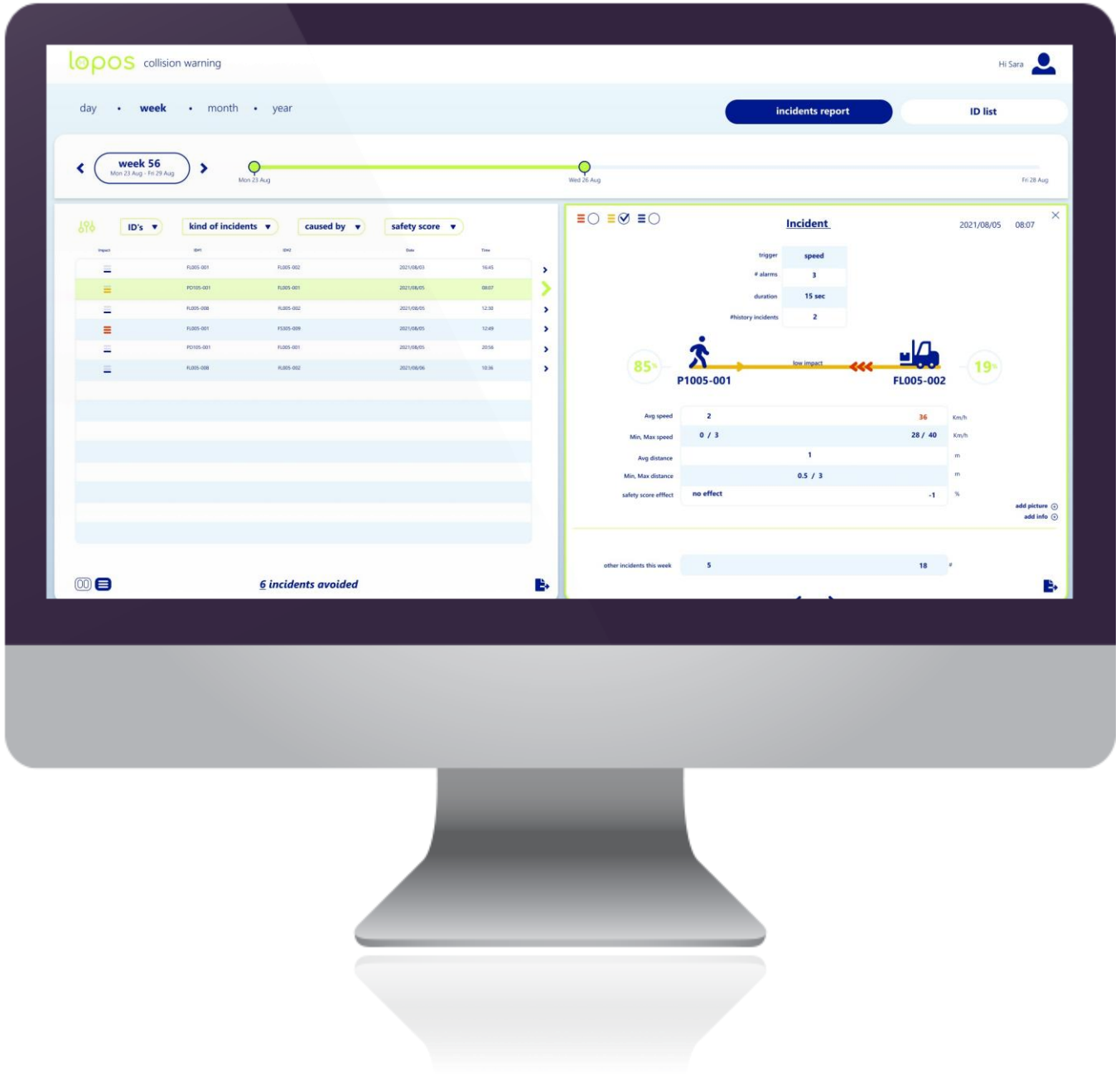
Alert wearable



Alert dashboard

Available January 2022

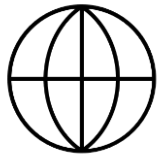
- ✓ Forklift/Pedestrian safety scores
- ✓ Near misses context
- ✓ Site statistics
- ✓ Integration API’s
- ✓ Usage & device management
- ✓ System configuration



Why choose for LoposAlert

Works on every forklift

Easy installation



360° proximity detection

Configurable Alerts and Ranging zones

Integrates in telematics

Vehicle Safety Solutions
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V2S, the technology for your safety.

Together we would like to look for a solution for your visibility and safety problems.

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