

Buddywise experiences: From preventing Incidents to Creating Safety

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Our Approach to Safety at KONE

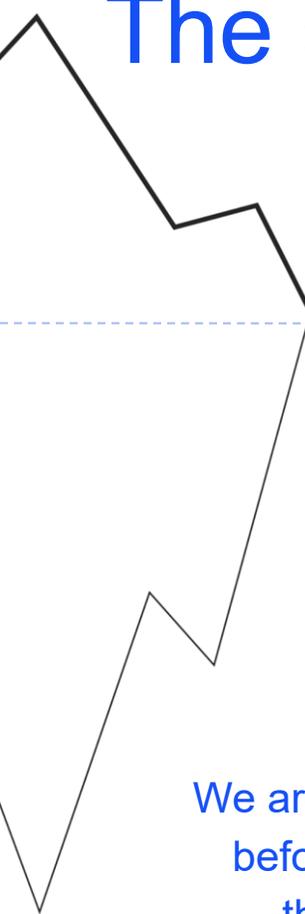
KONE

- Over 60 000 employees
- Net sales EUR 11,1 billion in 2024
- Own operation over 70 countries
- Hyvinkää factory in Finland - focus on tailored solutions

KONEs approach to safety strategy and way of work

- Home safe every day
- Zero accidents – safety is our highest priority
- Safety maturity – caring culture
- From reactive to proactive – everyone has role to play
- All high risk near misses must be analysed like real injuries
- Quick reactions for risks

The challenge



We are given many early indicators before a serious accident occurs, the challenge is to catch them.

AREAS OF INTEREST

HYVINKÄÄ plant HSE challenges

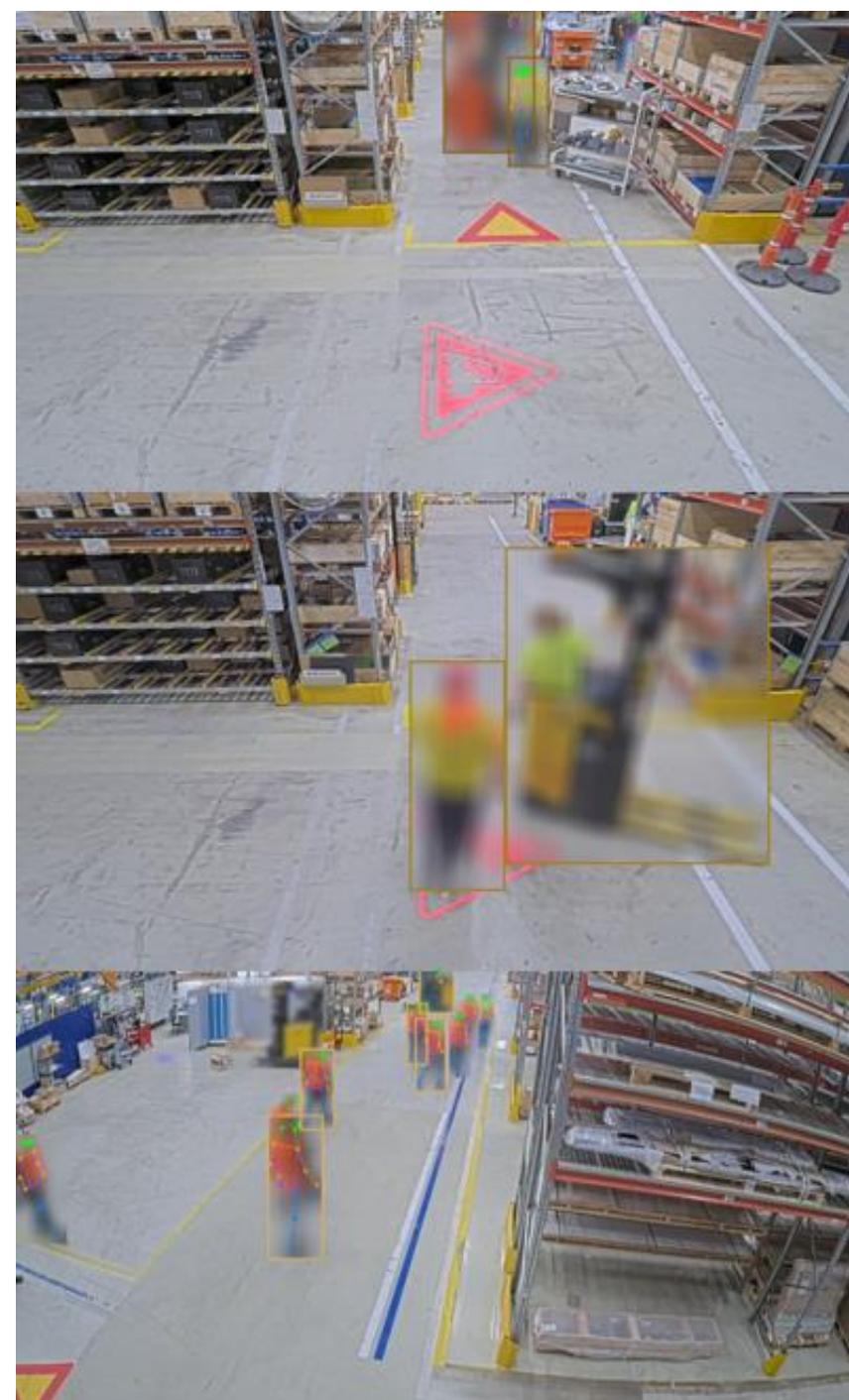
- Lack of visibility into near-hit collisions leads to unmanaged exposure
- Unmonitored traffic flows leaves critical safety gaps
- Undetected housekeeping violations create blind spots
- and unsafe patterns

Without consistent monitoring, supervision teams can't act immediately because they don't have the full picture.

Improve with Data-driven safety

- Improve traffic safety with data on near hit risks
- Improve traffic rule adherence with contextual insights
- Reduce hazards with clear housekeeping data
- Integration into current work processes and tools

Aim: Confirming that the Buddywise system fulfills these points, and serves as a powerful tool for HSE insights and actions.



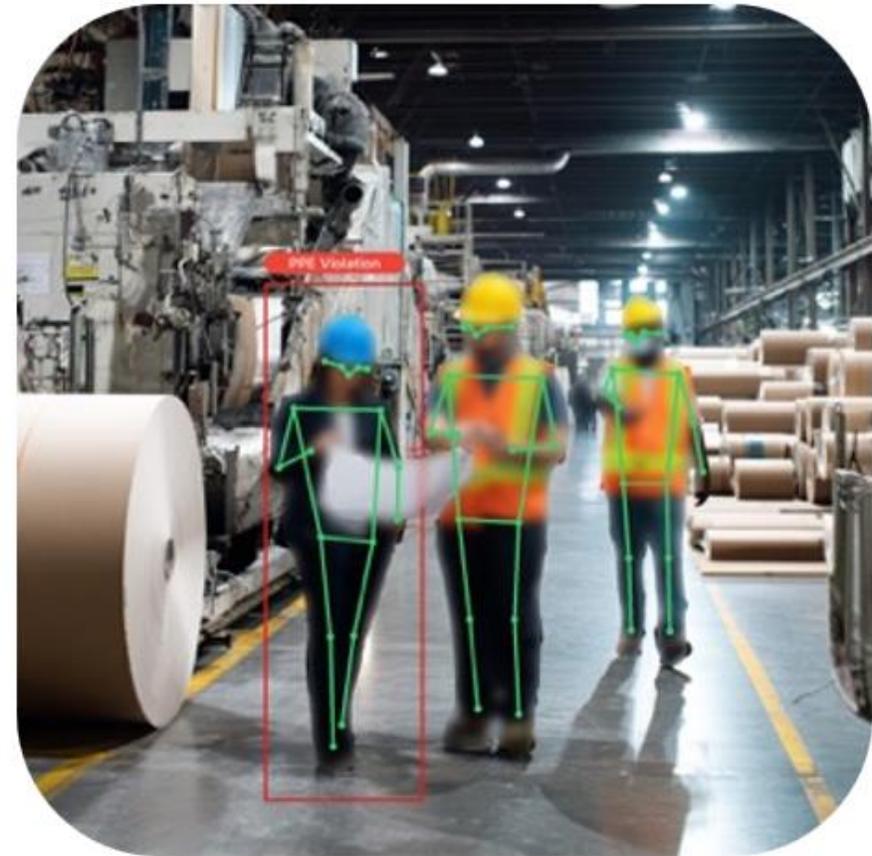
*“The biggest challenge is **changing the safety culture** to encourage more widespread reporting, especially for minor mistakes or “under-the-table” incidents that currently go unreported due to fear of blame.”*

The Solution

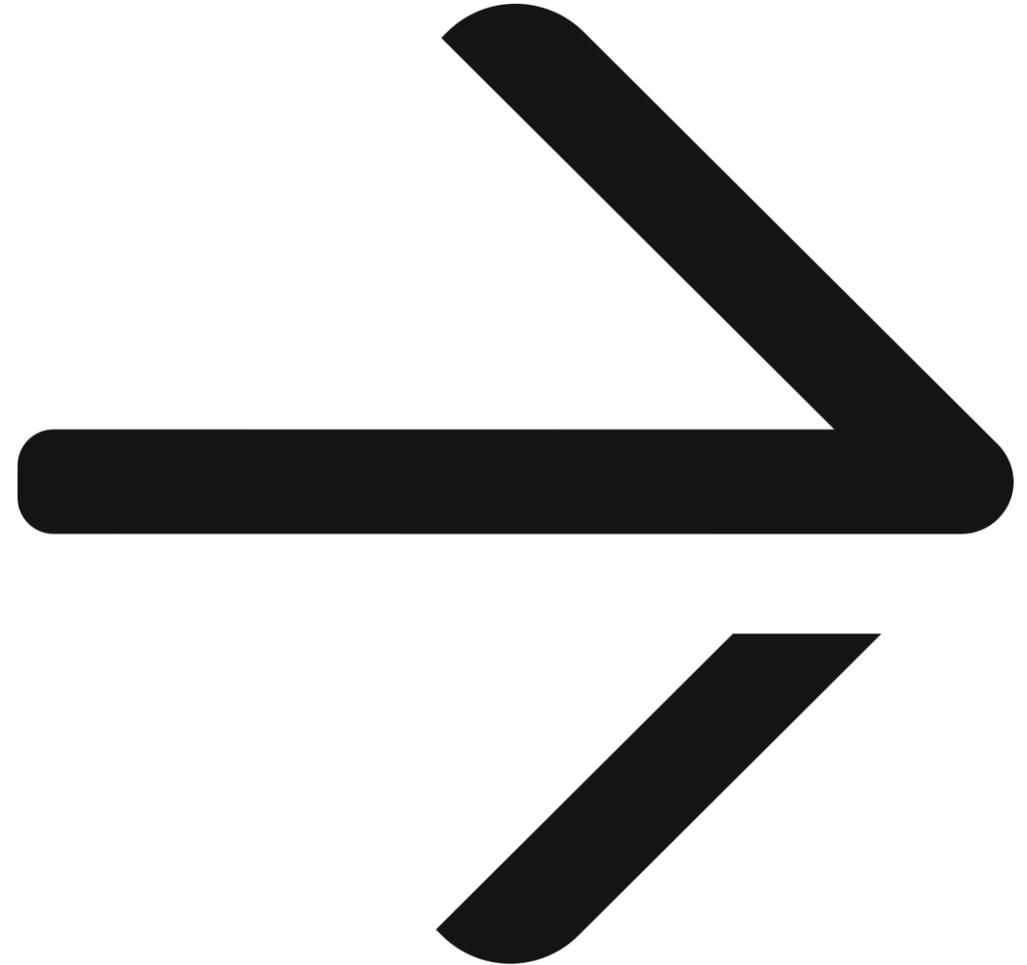
AI powered Insights - Bringing Risks to Light

Automate risk detection and provide visual trends, empowering you to **proactively prevent accidents** before they happen,

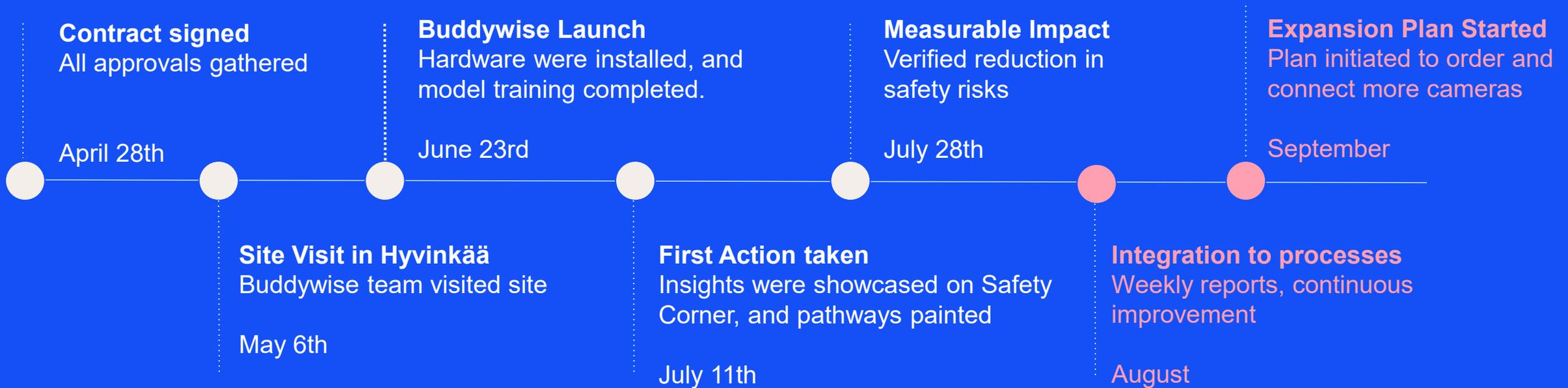
- System process video feeds instantly and in real-time. **No actual videos will be stored.**
- Only snapshots of risks events are stored, and **all other video material is automatically deleted.**
- In any captures risk event snapshot, individual's are **instantly blurred** to prevent personal recognition.
- This data provides valuable insights into patterns and behaviors, enabling data-driven safety improvements to your site. **Keeping everyone safer**



Buddywise Pilot in Hyvinkää factory



Pilot timeline

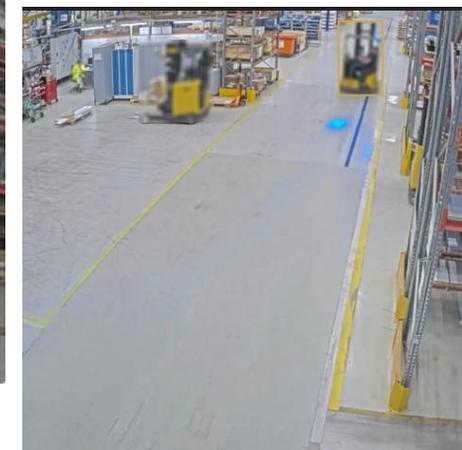
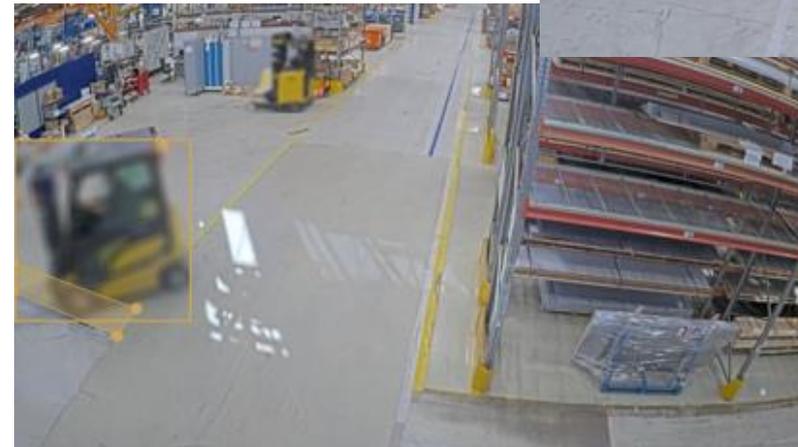


About the Pilot

- No video recording, just snap shots with blurred faces/skeleton model from risky behavior
- Easy installation + AI learning period

Risk scenarios in use:

- Person near hit
- Vehicle near hit
- Housekeeping- Obstructed vehicle path: Object left for more than 15min in the pathway will generate an observation
- Vehicle and pedestrian zone violations: Pedestrians who spend more than 15 seconds in the dedicated vehicle zone will generate an observation



Hyvinkää camera map:



Pilot scope 2 cameras covering:

- Electrification factory warehouse
- Shared pathway

Mobile connectivity for fast deployment

■ Pilot camera positions



Key safety concerns in Electrification factory warehouse

Shared pathways and congestions in peak hours

Shared pathways and areas frequently create near-hit risks due to mixed traffic, narrow space and congestion in peak hours.

Limited visibility blocks line of sight

Walls, storages racks, and storage of material frequently block the view and hinder awareness of what's coming.

Near misses go unreported and unresolved

Workers are desensitized to risk, leading to underreporting and missed safety improvements.



Key safety concerns in the vehicle pathway

Unauthorized pedestrian crossing

Pedestrians frequently enter and linger in the designated vehicle pathway, rather than crossing directly and promptly. This creates an unpredictable environment and significantly increases collision risk.

Elevated near-hit risks during peak hours

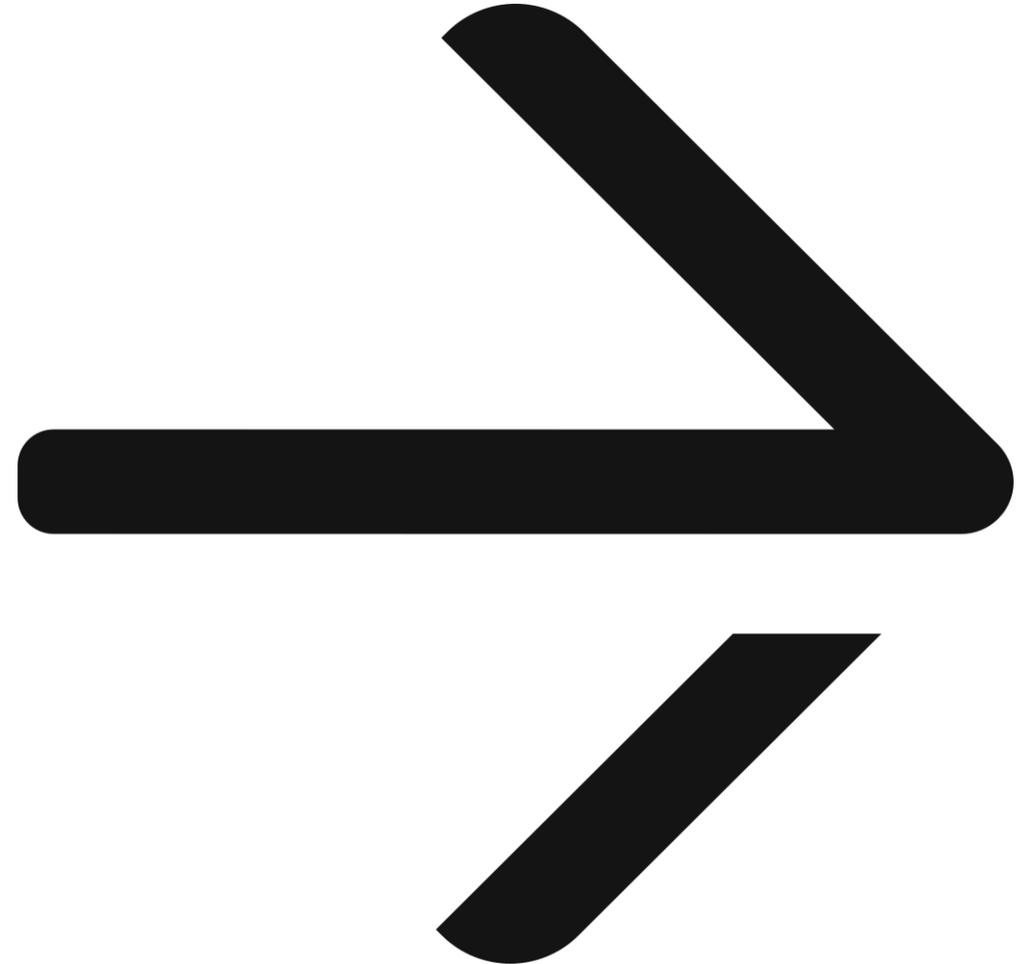
The combination of pedestrian incursions and high vehicle density during peak operational hours drastically amplifies the likelihood of near-misses and, consequently, actual collisions.

Near misses go unreported and unresolved

Workers are desensitized to risk, leading to underreporting and missed safety improvements.



Examples of Corrective action taken based on observations & risk detection



Improved pedestrian pathways

Implemented a new pedestrian pathway on Camera 1 with the purpose of reducing the number of Near Hits in the area.



Mixed traffic area



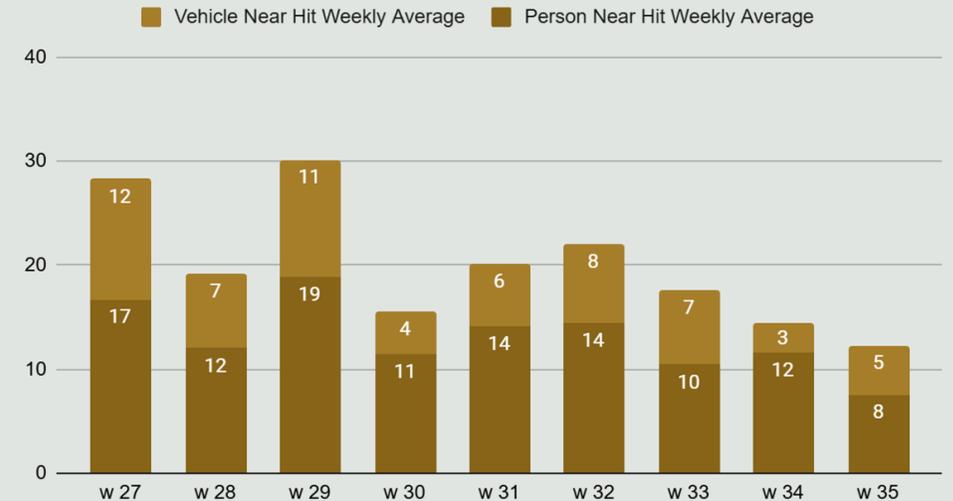
New pedestrian pathway painted on July 1st



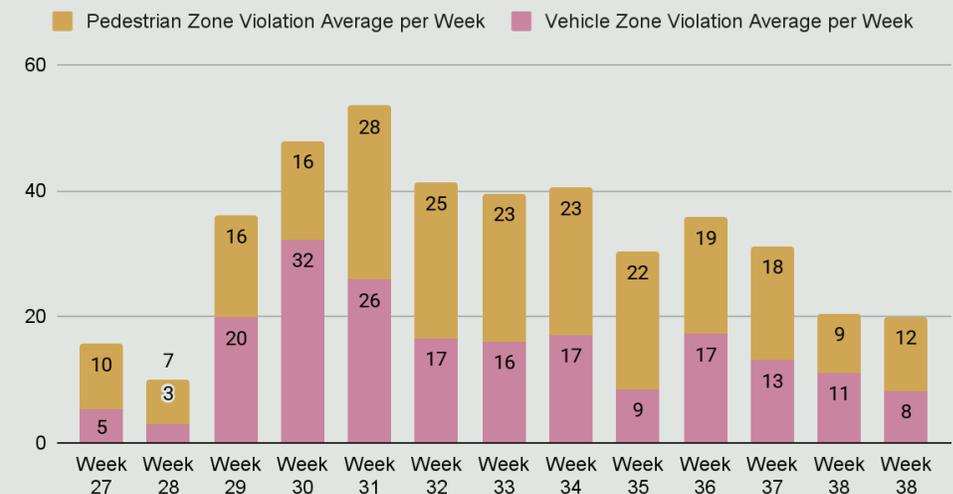
The Results

- Reduced Person Near Hit risk by **50% in 8 weeks**
- Risk reduction of **58%** for Vehicle Near Hit
- 50% of the observations happened on Monday and Thursday
- Clear impact on focus on pathway usage

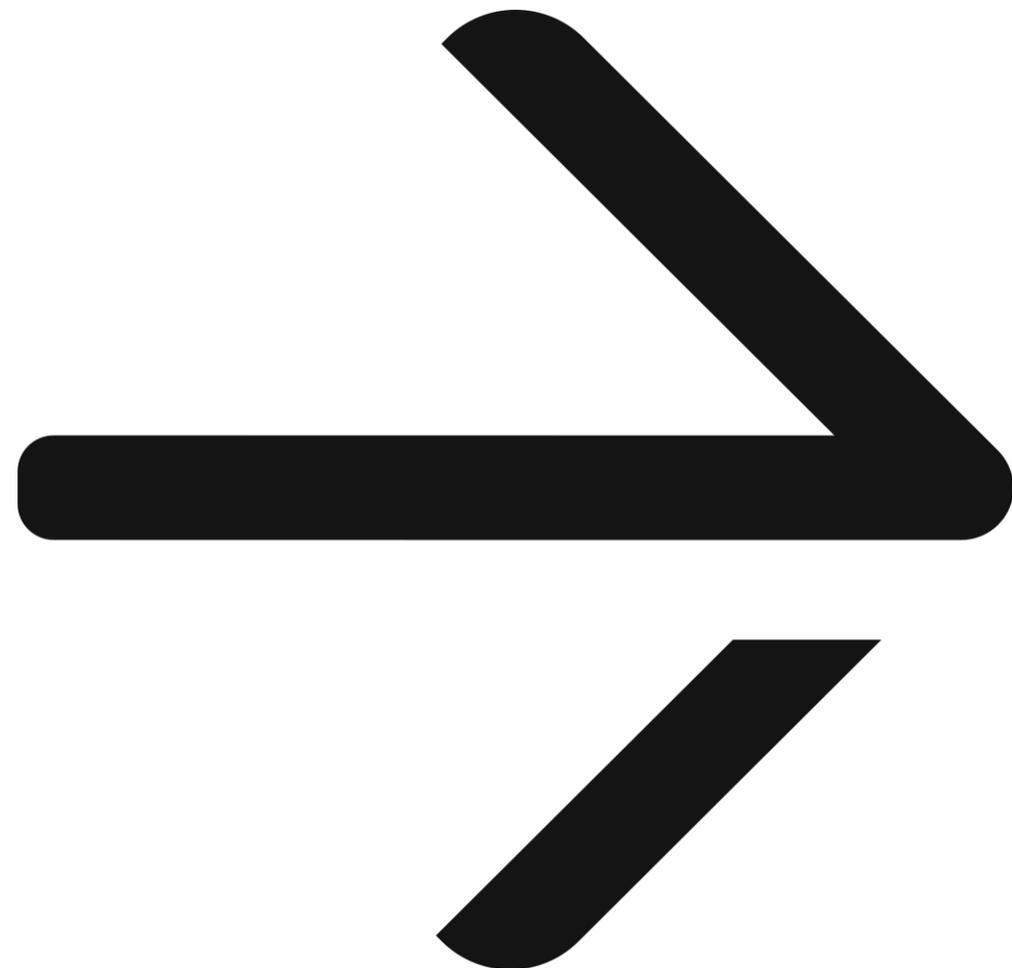
Person Near Hit and Vehicle Near Hit



Average Zone Violation per Week



Lessons learned



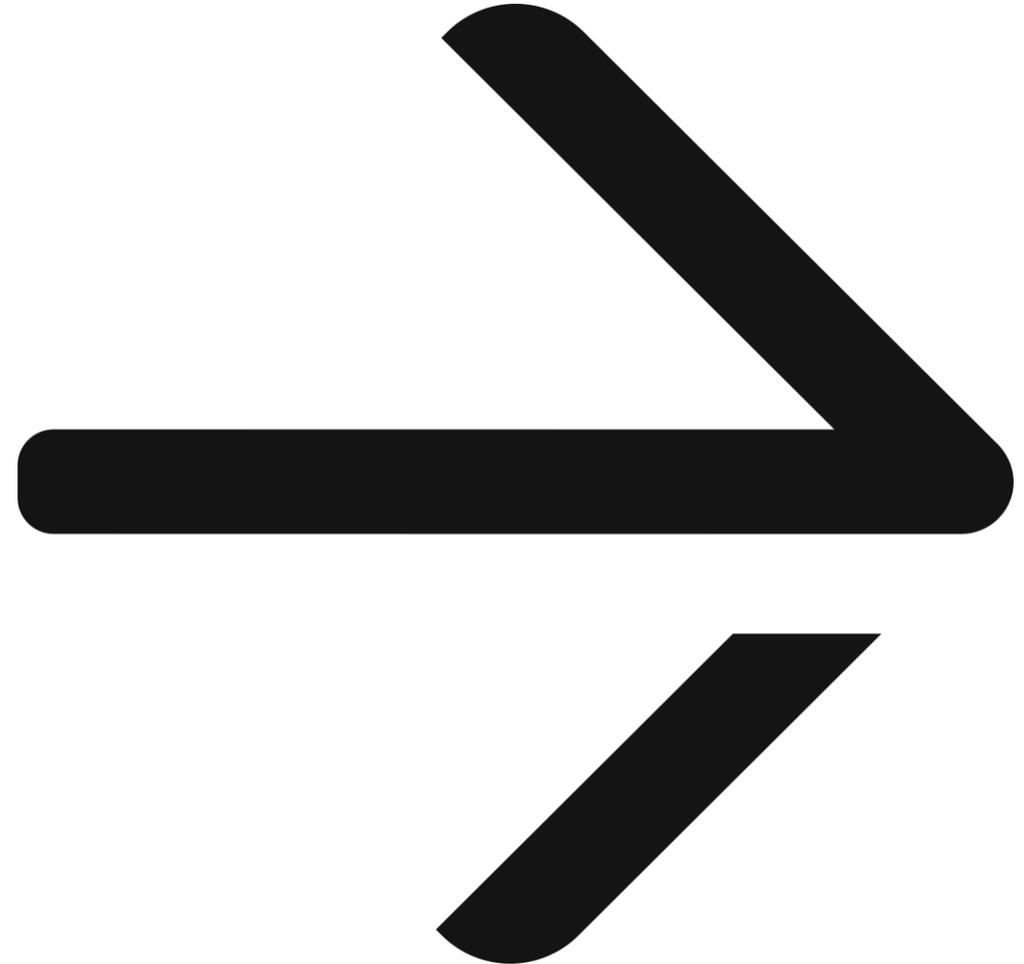
Buddywise – Lessons learned

- The Buddywise system **increases visibility into unsafe behaviors and the number of previously unreported incidents or unseen risks** (visibility, transparency and opportunity to continuous improvement)
- From Observation to Dialogue and Action
 - Enables data-driven management – observations are reviewed immediately as part of daily management
 - E.g. immediate actions by supervisors
- Uncovers and provides data enabling KONE to proactively reduce hazards, prevent accidents, reduce risk of trips, and improve safety

=> Enables a safer work environment and long-term improvement of the safety culture

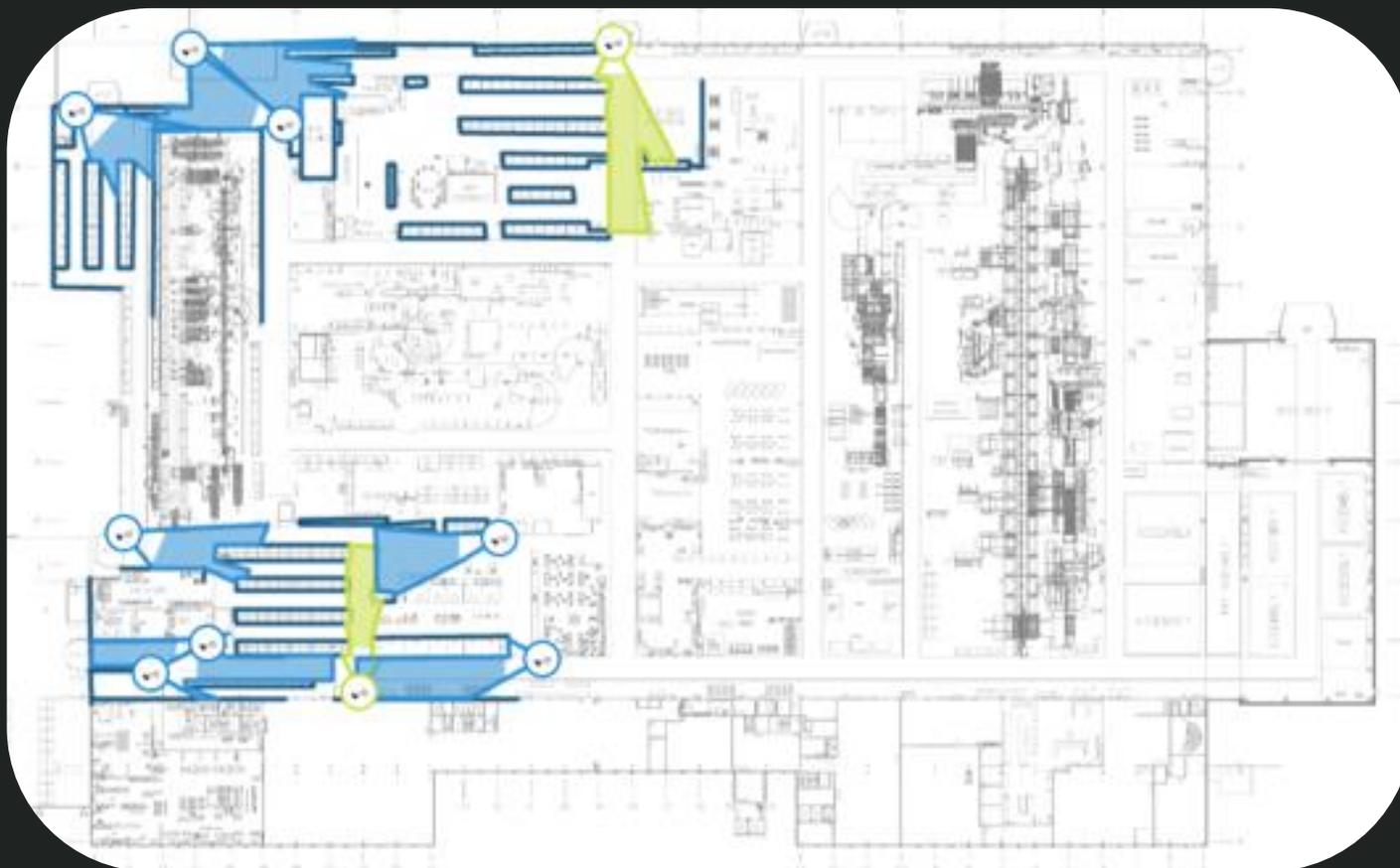


Next steps





HYVINKÄÄ future (proposal) - Expanding to new areas to uncover more hidden risks



Adding 8 cameras will enable new risk scenarios:

- Liquid on floor
- Traffic Flow
- Shared pathway
- Etc

 Existing camera

 New camera



Thank you!

Dedicated to People Flow™

