

RiskHunter

Build a strong safety culture by
using Safety Crowdsourcing

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Corporate Mobility
SAP Solutions
Augmented Reality

Industrial Safety
Solutions for Government



 HEAVY INDUSTRY = HEAVY RISKS



View of metallurgy plant factory floor



Industrial pipelines of an oil-refinery plant

Size of a large metallurgical plant or refinery can be >10 square kilometers

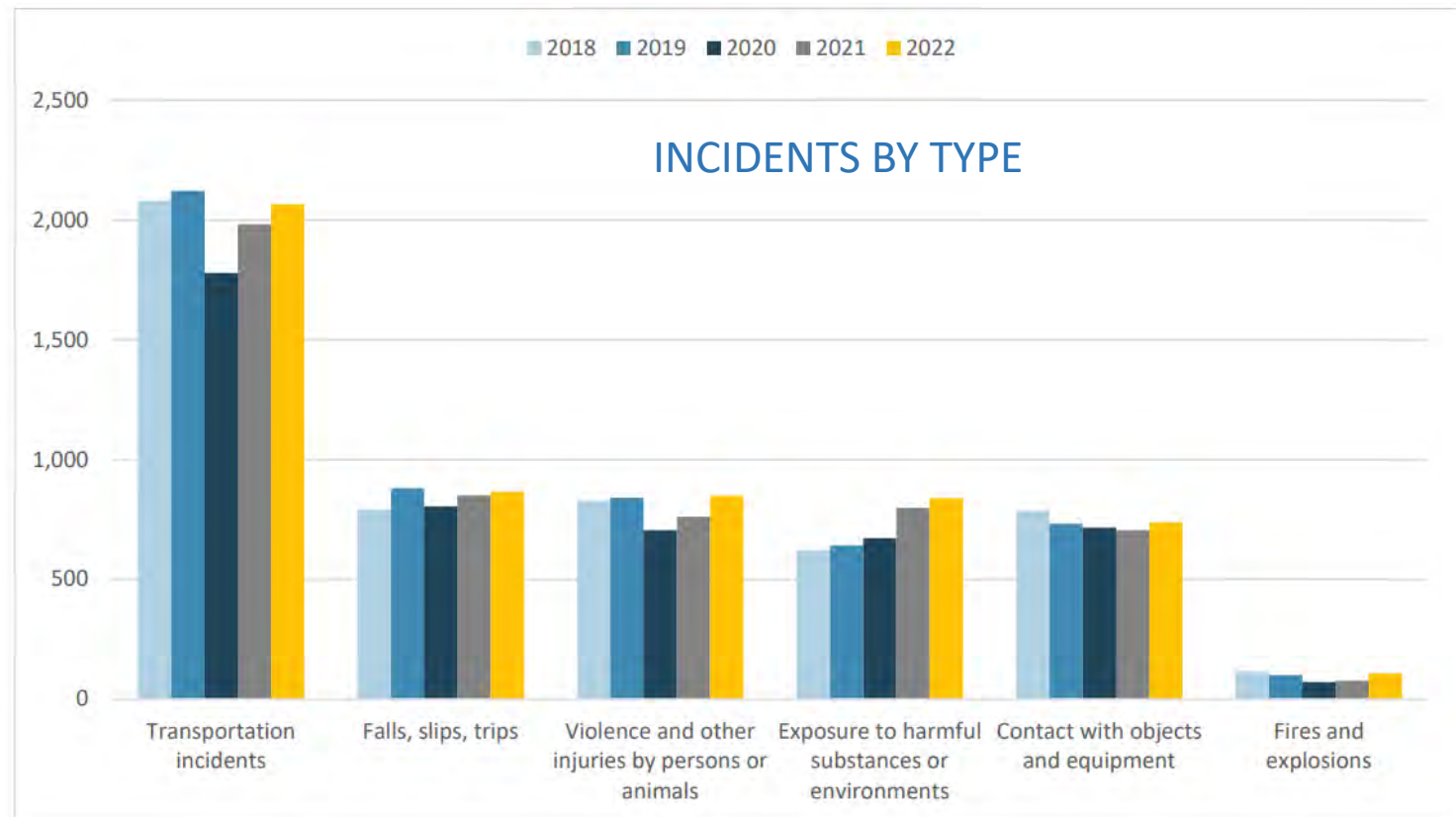
HEAVY RISKS LEAD TO FATAL INJURIES

5,486

fatal work injuries recorded
in the United States in
2022

5,7%

increase from 5,190 in
2021 (*)



(*) <https://www.bls.gov/news.release/pdf/cfoi.pdf>



CONVENTIONAL RISK MANAGEMENT



Static Safety Policies and Procedures

Emphasize compliance with rules and regulations over the development of a safety culture.



Periodic inspections

May not capture all emerging or unforeseen risks. Time-consuming and resource-intensive.



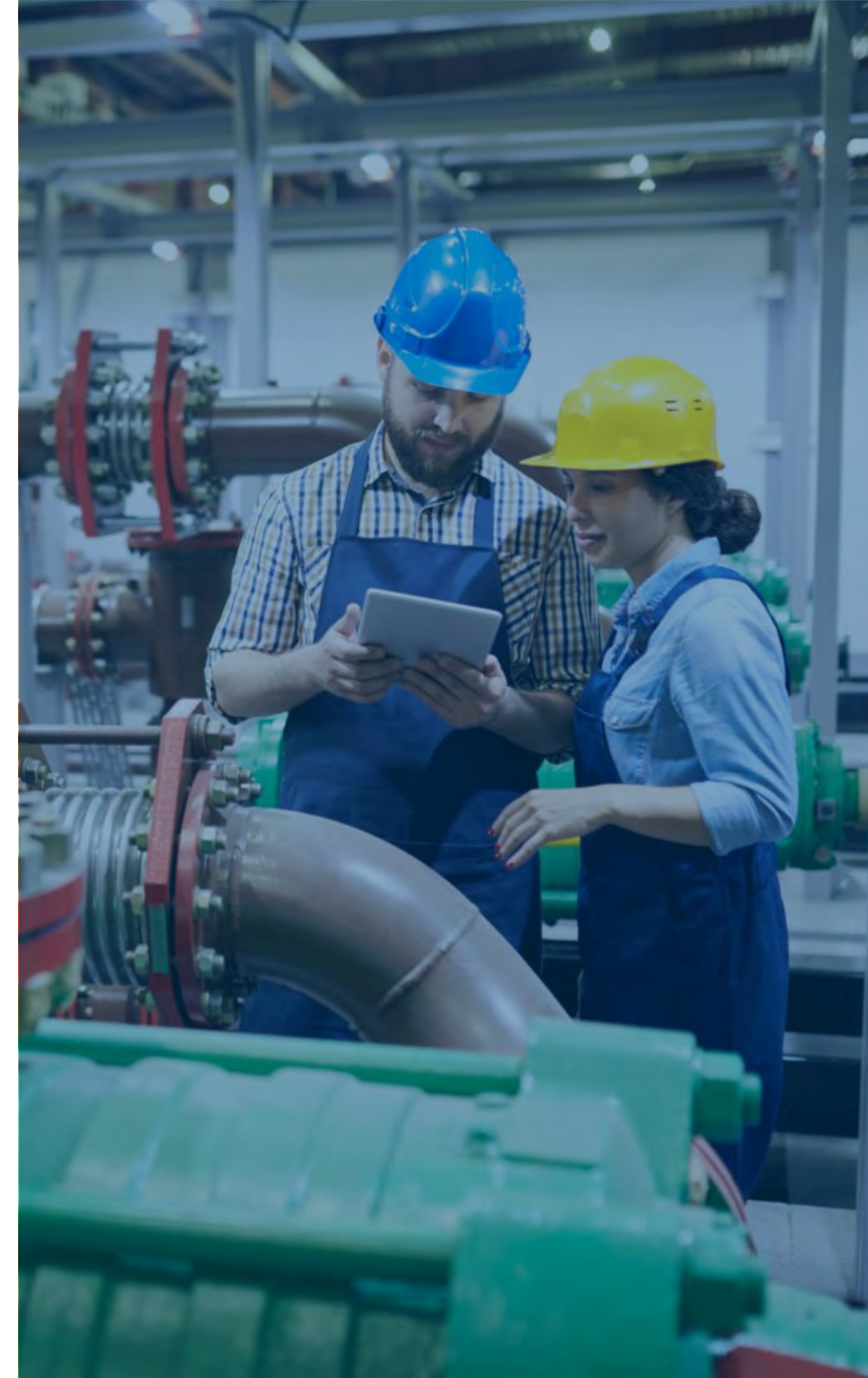
Learn from past

Analyze past incidents to identify areas for improvement rather than proactively identify and mitigate risks before they lead to accidents.



Limited Employee Engagement

Employees are not actively involved in identifying hazards and developing solutions





Involving all employees into risk detecting and reporting to establish proactive Safety Culture

Become a RiskHunter to save lives



RISKHUNTER CONCEPT

RiskHunter is an instrument to

build a safety culture

using a unique

motivation system



Engagement



Focus



Sustainability



Motivation



Top-down motivation



Internal motivation



Safety Habits



Safety Culture

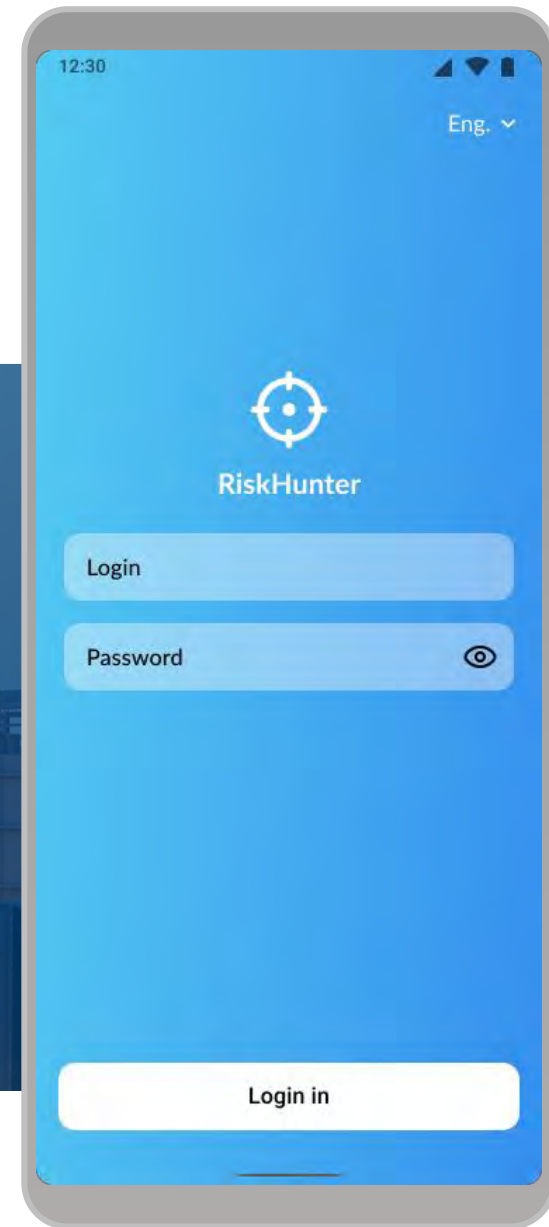


“I am a risk hunter”



SAFETY CROWDSOURCING IN PRACTICE


Safety Crowdsourcing concept is realized in practice as a corporate IT solution with a mobile app, available to all employees – **RiskHunter**








RISKHUNTER

Employee's mobile app

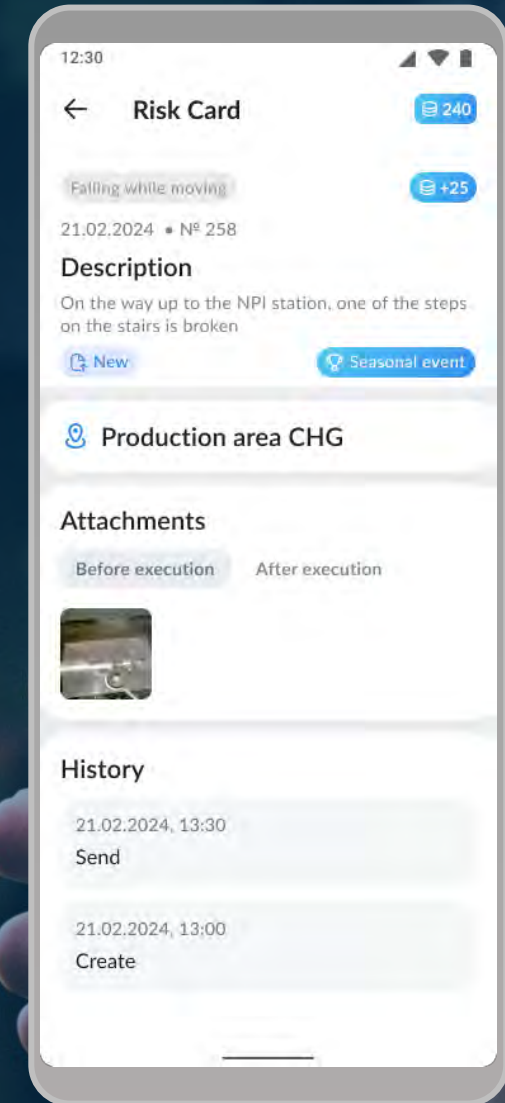
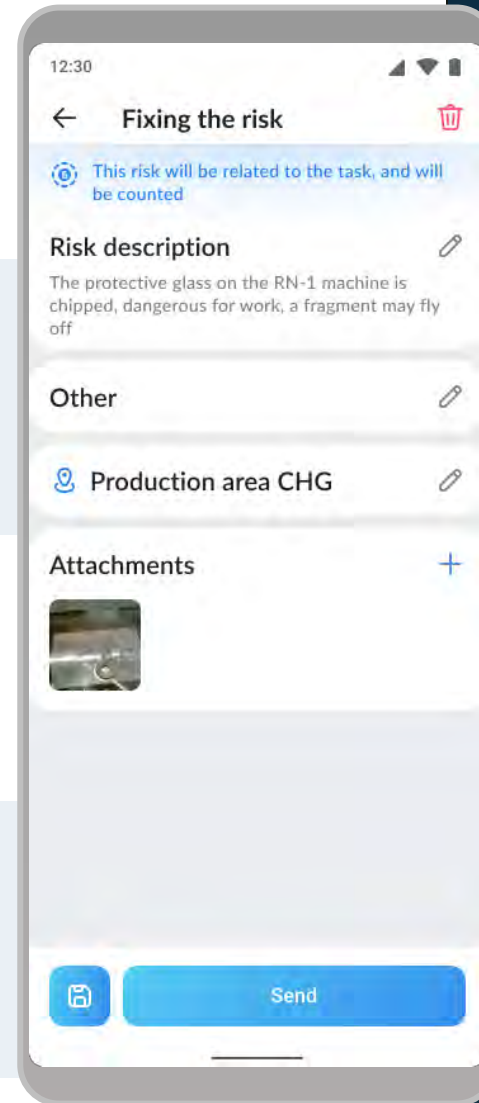
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1 Spot a risk and make photo using mobile app
- 

2 Comment and send photos to the risk manager
- 

3 Get risk validated by Risk Manager
- 

4 Receive a reward upon reaching a certain number of points



MATERIAL MOTIVATION



Opportunity: the level of engagement and commitment of employees to HSE

Points

For each valid risk report the reporter gets points

Upon reaching a certain number of points, the participant can exchange them for a valuable prize: money, discount code, vacation certificate, cosmetics, gift certificate etc.



Sports equipment



XBOX or PSP games



Online cinema subscription



Tickets



Kitchenware



Online courses



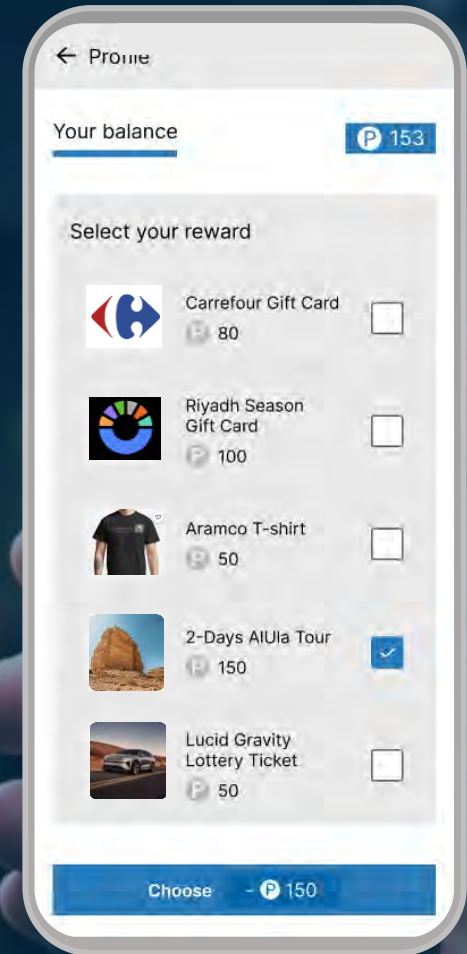
Marketplace vouchers



Baby stuff



Cosmetics



PERSONAL MOTIVATION



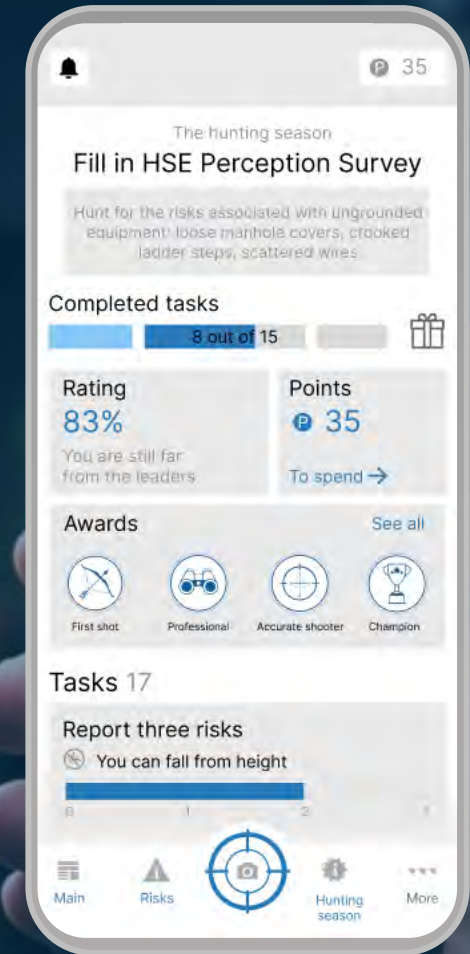
Opportunity: the level of engagement and commitment of employees to HSE

Badges

Performance is motivated by personal badges:



This motivation is inspired by fitness apps and games. It encourages users to be consistent in practicing risk hunting. Example: if a user reports 5 or more risks in a month he receives a medal badge.





HUNTING SEASON

Focus + sustainability



Opportunity: the need to focus on pro-active risk discovery and mitigation

Extra points for a specific type of hazard:



Electrical safety



Risk of falling from height



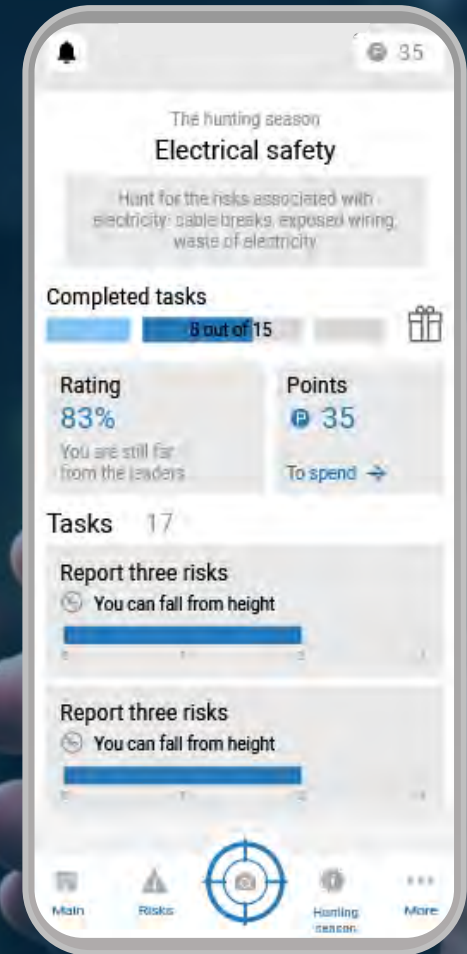
Equipment safety



etc...



Helps to focus attention and support engagement over a long time





HUNTING SEASON

Gamification

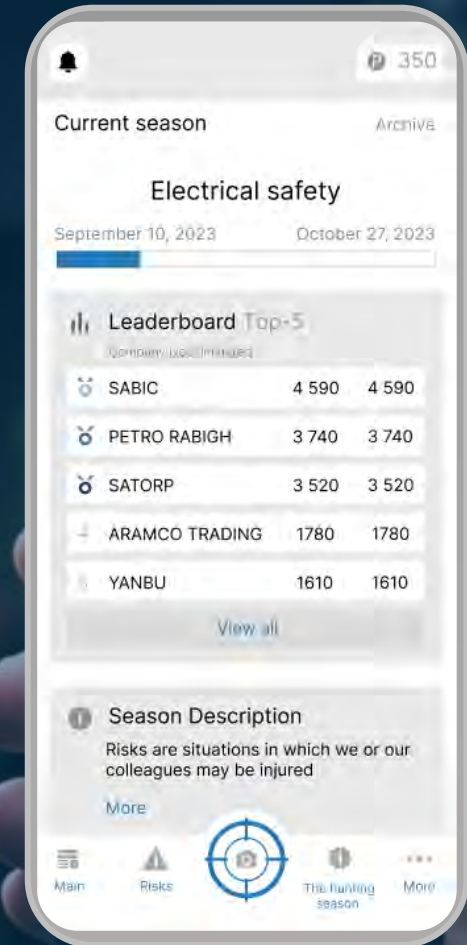


Opportunity: the need to focus on pro-active risk discovery and mitigation

- Every worker and workshop are assigned safety-related tasks
- For completion they receive points getting higher rating among other participants
- In the end of the season the winner receives a prize
- Tasks can include finishing a safety training (like Safe Work Practices), passing a test, etc..



Gamification promotes spirit of collaboration and loyalty of staff





HUNTING SEASON

Tasks



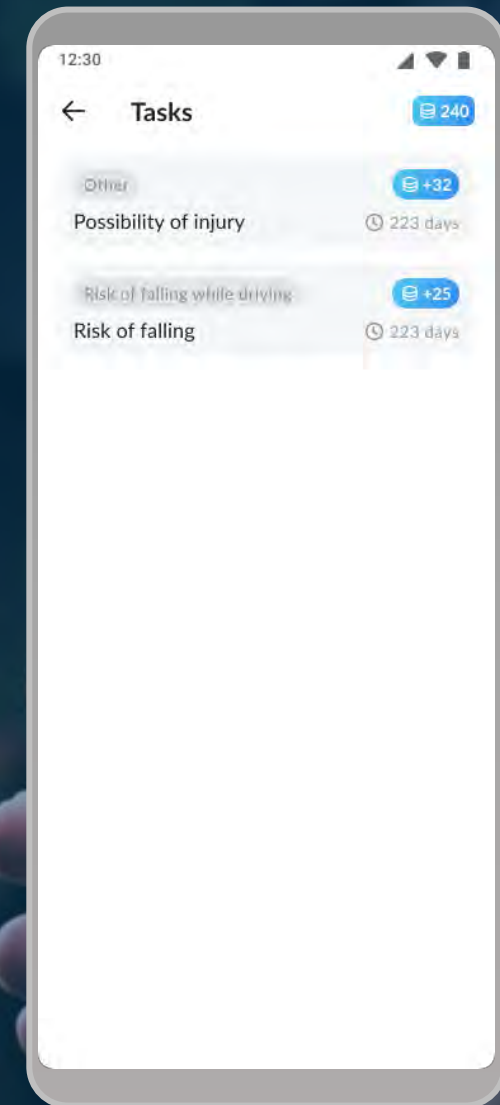
Opportunity: The need to enhance HSE core competencies

Tasks in RiskHunter can be used to promote various safety-related activities. All motivation tools are used to encourage employees to complete assigned tasks

- Risk reporting and housekeeping tasks
- Taking safety courses and trainings
- Passing safety exams and tests
- Filling in surveys



The RiskHunter's motivation mechanism makes tasks a powerful tool for safety improvement



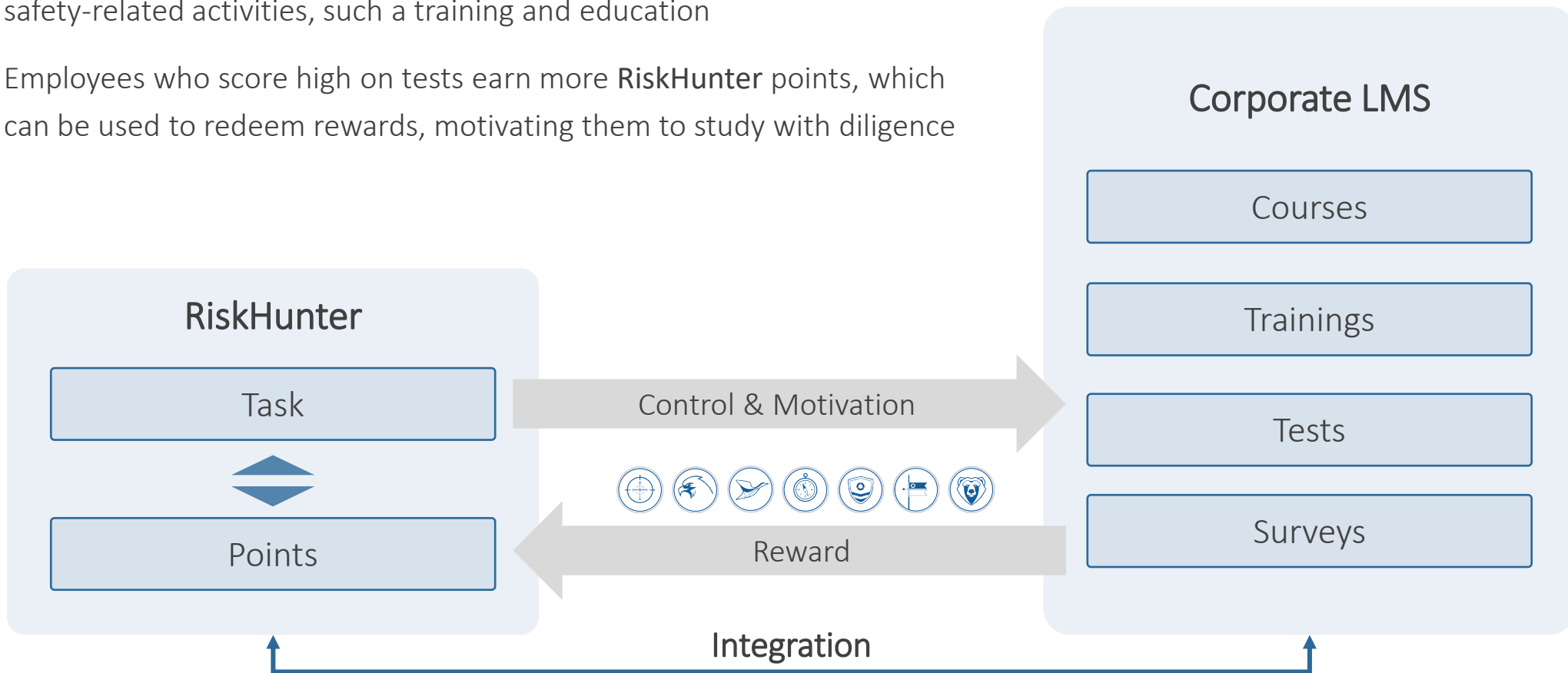


USING TASKS FOR SAFETY TRAININGS

Motivating safety education

Because tasks in RiskHunter are integrated with the motivation mechanism, they can be used as an instrument to boost efficiency of safety-related activities, such a training and education

Employees who score high on tests earn more RiskHunter points, which can be used to redeem rewards, motivating them to study with diligence





MORNING SAFETY QUEST

Safety Culture Motivator

Morning Safety Quest can include:

- Location-specific safety reminders
- Safety video clip
- Tip of the day
- Safety Quiz of the day

Morning Safety Quest will be triggered by a push notification

- time and location-based notification
- personalized notification

The Morning Safety Quest ensures safety remains paramount right from the start of each day





LOCATION-BASED SAFETY BRIEF

Ensures location-specific safety information is delivered and read

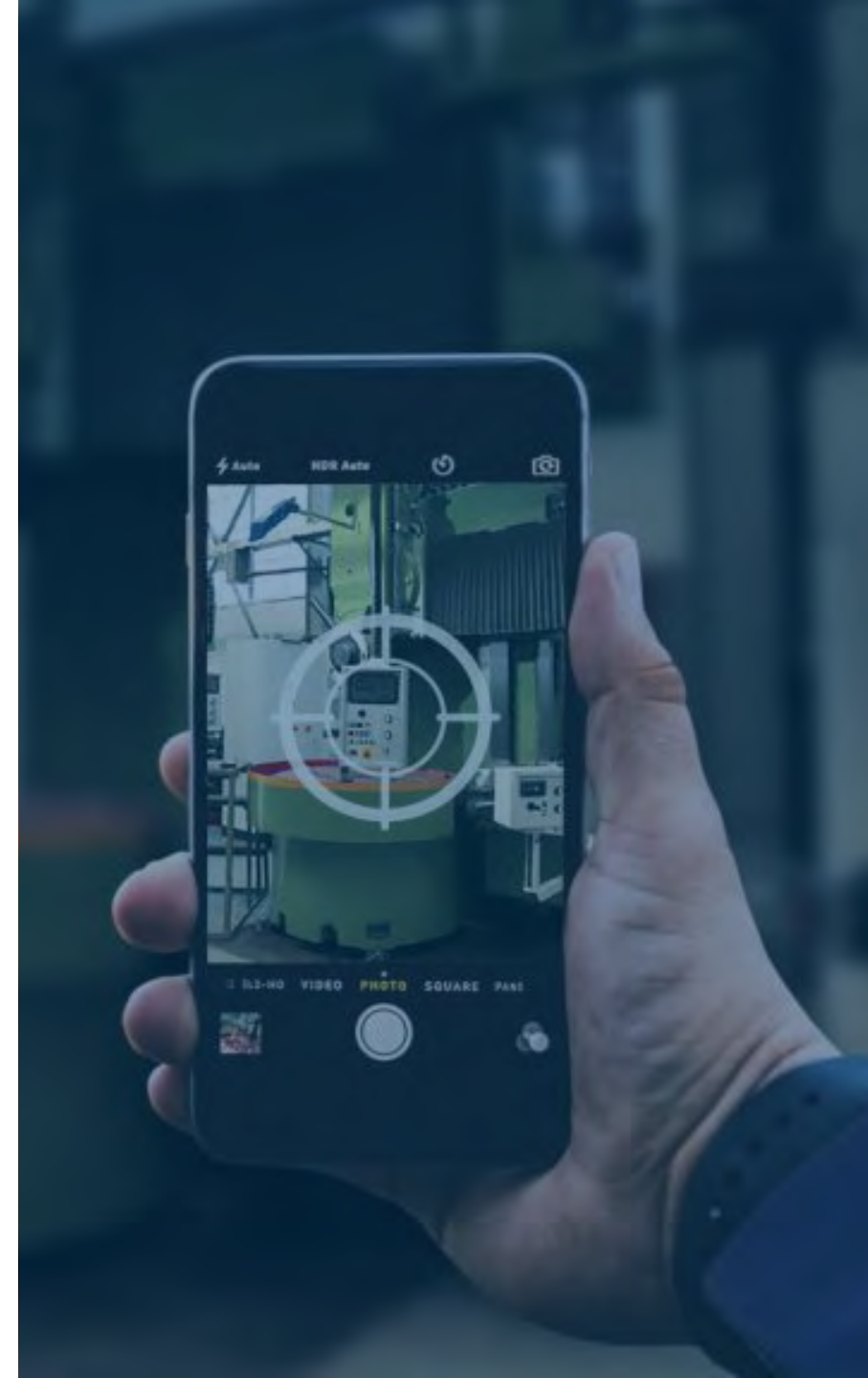
Location-based safety brief mechanics is as follows:

Each premise and location may harbor specific risks of which employees and visitors may be unaware

Upon entering a particular area, RiskHunter will immediately send a push notification to visitors, providing essential safety information about the area

Location-specific safety instructions

- Triggered by entering a specific zone
- Provides essential safety information
- Requires read confirmation
- Can be rewarded by points





RISKHUNTER

Safety Team Workplace

1



When an employee reports the risk by the mobile application, the risk manager responsible for the territory receives a notification (in his mobile app)

2

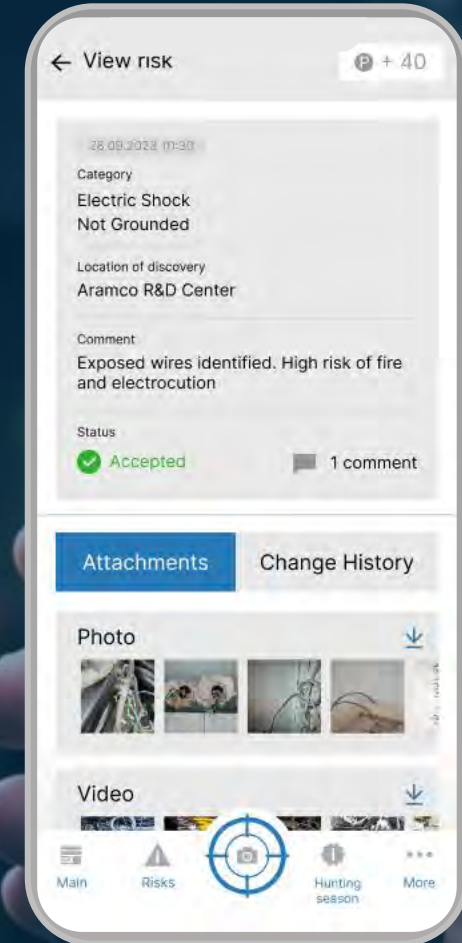
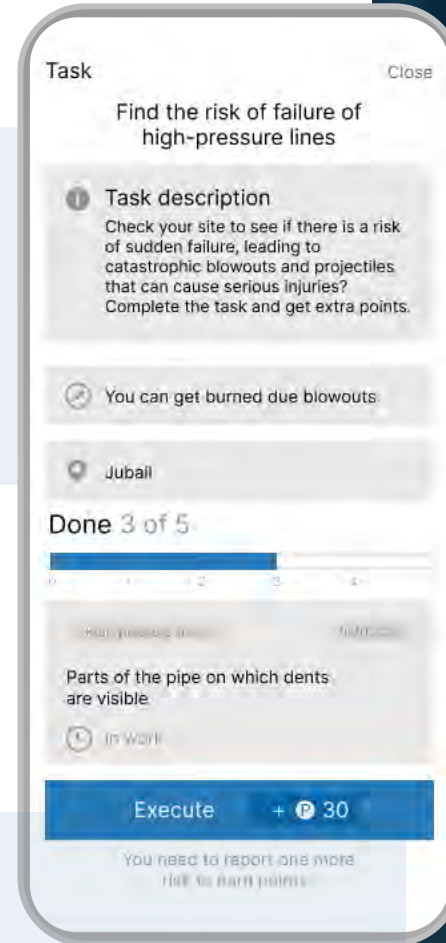


After validating the report, the risk manager creates a work order to eliminate it

3

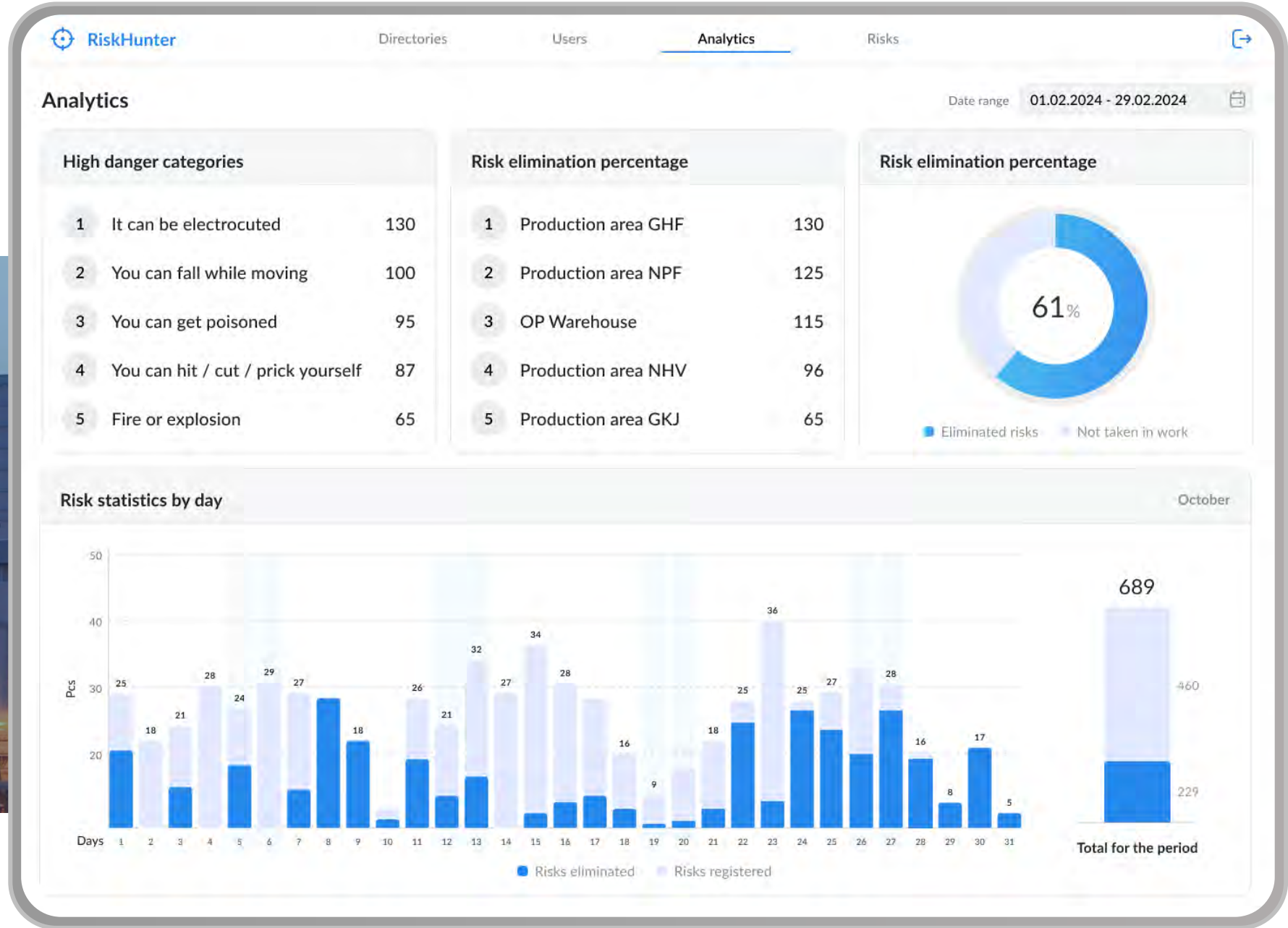


Upon elimination, the risk manager takes a photo and attaches it to the corresponding risk document. The reporter receives a notification and gets bonus points as a reward





Risk by type/elimination ratio



Risk Hunting performance Statistics



Date: June 23, 2023

Plant: Jazan Refinery

Hunting progress

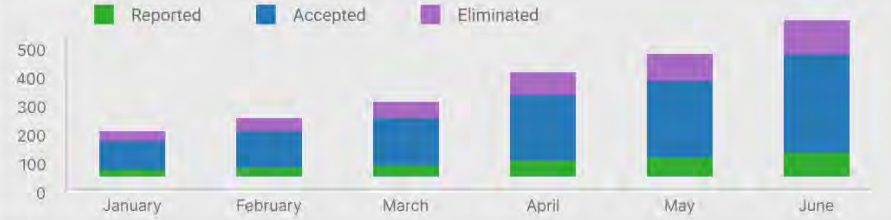


% not eliminated



% of High priority not eliminated

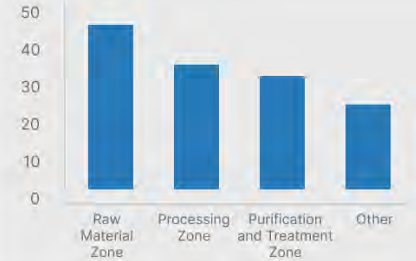
YTD Statistics



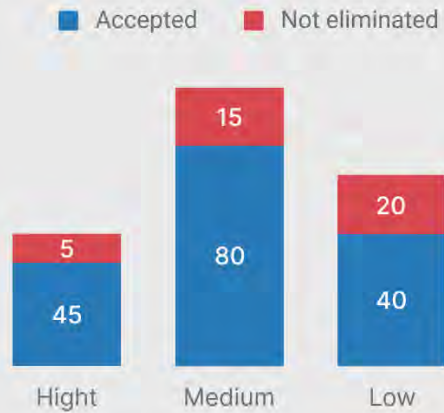
User activity



High risk locations



Risks by priority



Risks by type



🎯 Examples
of risks

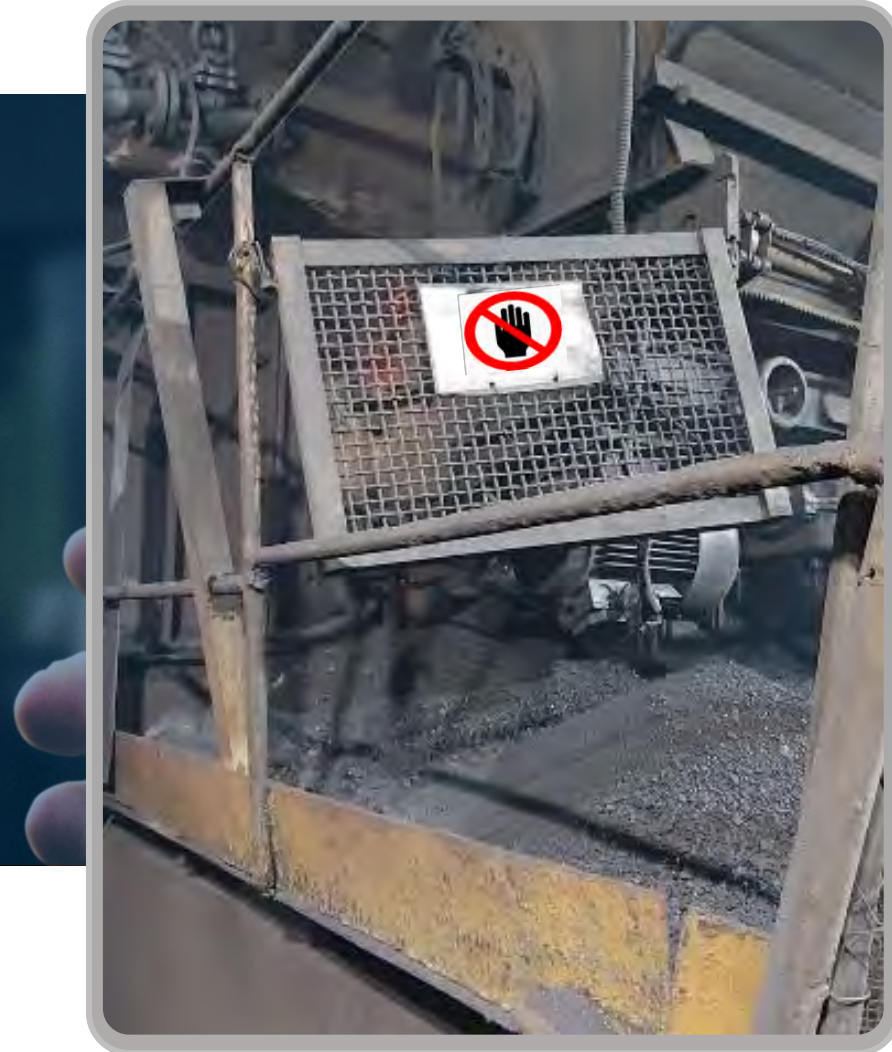




**RISK OF INJURY FROM
ROTATING EQUIPMENT PARTS**



**TO ELIMINATE THE RISK,
A GUARD HAS BEEN INSTALLED**

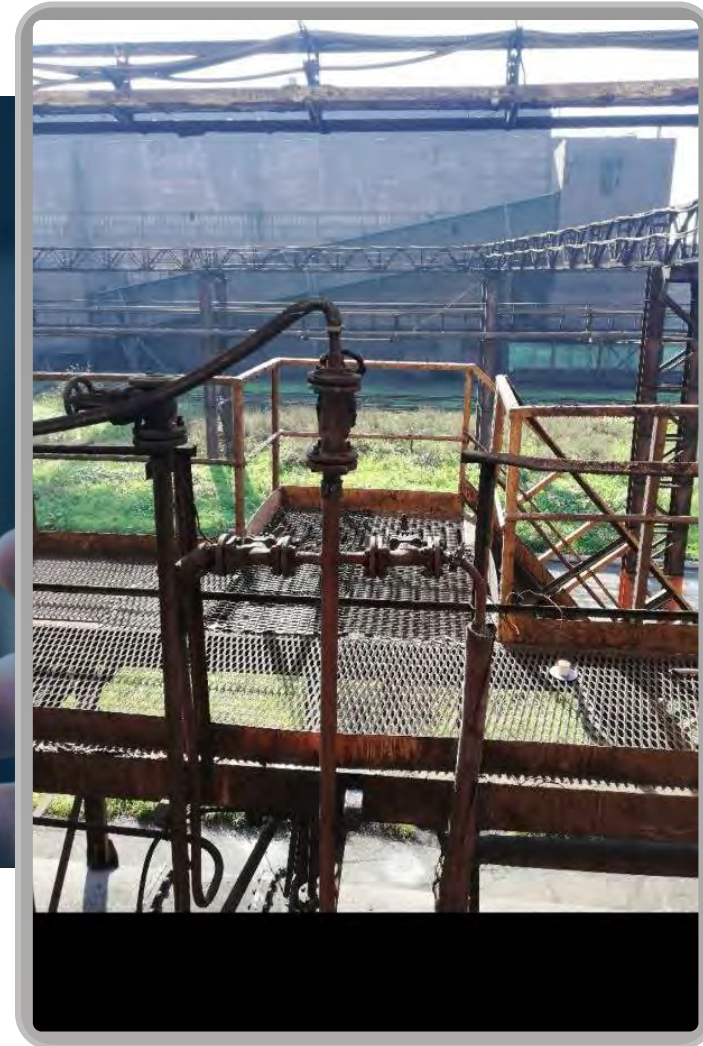




**RISK OF BURN
DUE TO DAMAGE IN A STEAM PIPE**



**TO ELIMINATE THE RISK,
A LEAK IN THE STEAM PIPE WAS FIXED**





Advantages



1
Involve all employees in the process of increasing plant safety



2
Use gamification and bonuses to motivate staff



3
Ensure every risk is spotted and eliminated

Case: large industrial enterprise, 2021-2022



22 000+
users



180 000+
potential risks
identified



150 000+
risks eliminated

583

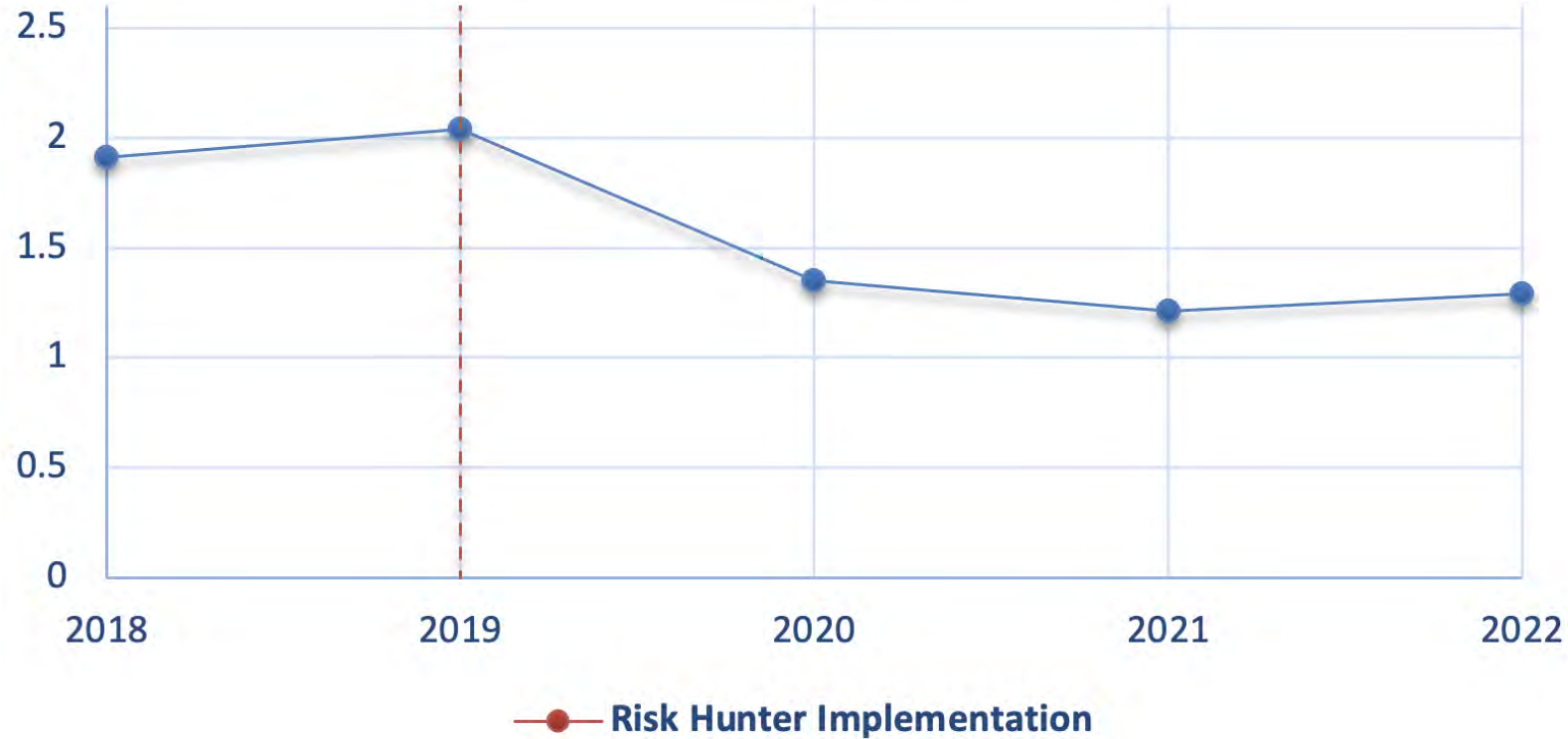


risks of possible fatal injury
identified and eliminated



RISK HUNTER REDUCES NUMBER OF INJURES BY 25%

The frequency of injuries resulting in temporary disability





RISK HUNTER REDUCES NUMBER OF FATAL INJURES BY 50%

The number of fatalities in industrial accidents

