



How Wearable Safety Tech & Al are Reducing Incidents and Claims in Industry Today!

Presenter: Tom West, SPHR, SHRM-SCP, COSS

Date: May 9, 2024

- Welcome & housekeeping
- A word about SFIA
- Speaker introduction
- Presentation
- Q&A

Agenda



Welcome & Housekeeping

- Thank you for attending our webinar today!
- Mics are muted. Please ask any questions in the chat or Questions windows.
- A PDF of the presentation and a Certificate of Attendance will be available in your Steel Framing Learning Portal account after the webinar.

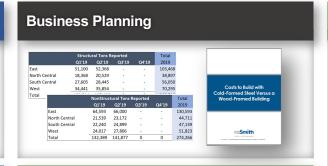


Major Programs and Services: Tools, Information and Support

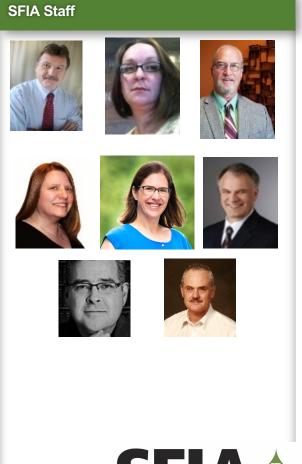




Educational Programs



Sustainability



STEEL FRAMING INDUSTRY ASSOCIATION









Introducing our Speaker!





Tom West, SPHR, SHRM-SCP, COSS

Tom is Vice President at MākuSafe, as well as being a SHRM & HRCI Senior Certified Human Resources Professional, and a Certified Occupational Safety Specialist. Over the years, Tom has held executive leadership roles with many companies providing learning & development tools, technology, and services. Tom also served as a College Management Professor for nearly 30 years. Tom is an Avetta Fellow and a professional member of the National Speakers Association, in addition to being an active member in the AIHA, National Safety Council, ASSP, and VPPPA.



Live Webinar May 9, 2024

SFIA *

How Wearable Safety Tech & Al Are Reducing Incidents And Claims In Industry Today!



Join us: Thursday May 9 at 2pm ET

Tom West, SPHR, SHRM-SCP, COSS

Vice President, MākuSafe Wearable Technology

FREE Registration

https://www.pathlms.com/sfia/courses/67052/webinars/43864







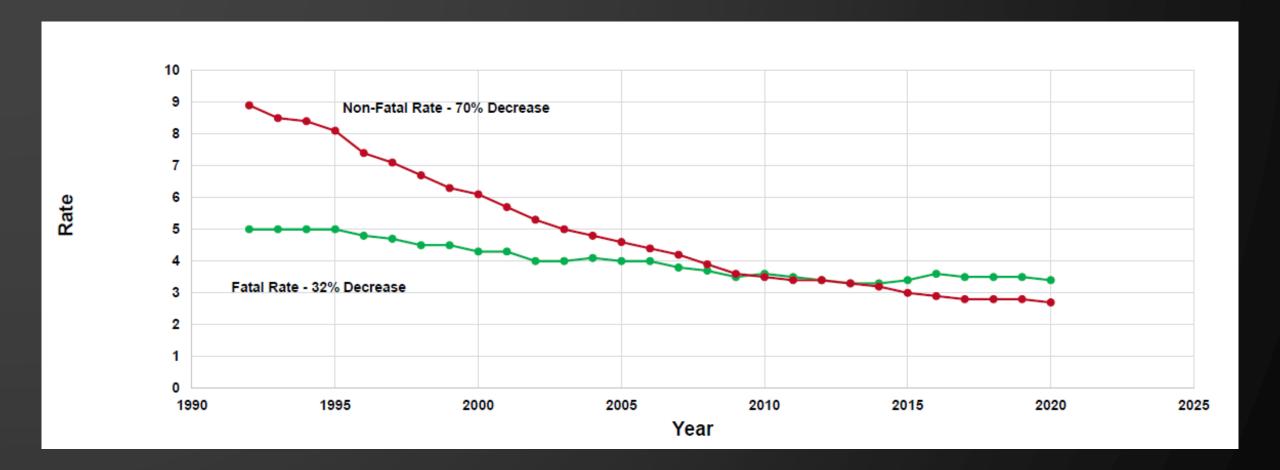
Vice President, MākuSafe

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NOISE DOSAGE







How do you...

- better understand where risk exists?
- become more proactive & preventative?
- develop participation, engagement, and build culture?
- become more strategic?
- relate safety to the C-Suite and Production/Operations?
- make sure you know about things you know happen, but nobody reports?
- ESG? DE&I? TWH? Oh, my.
- optimize your safety management process?
- not waste time and resources, and stay practical?
- use tech to get measurable results fast, without making life more difficult?



Wearable Safety Tech:

Enabling Safety Management 2.0 & HOP

Providing EHS Leading Indicators

Reducing Incidents & Claims

And Improving Safety Culture!















Reduction in Accidents

Claim Frequency - Down 50% Total Claims - Down 50% Claims severity - Down 90% ROI estimated at over 1000% +

Increased Transparency & Communication, Culture Building

Increase in "Good Catches / Near-Misses" & reported observations from front lines.

Uncover Unknowns

Harness data and sensor technology to discover insights previously unavailable.

Simplify EHS Documentation

Immediately shows EHS value.

Safety & Health Management System

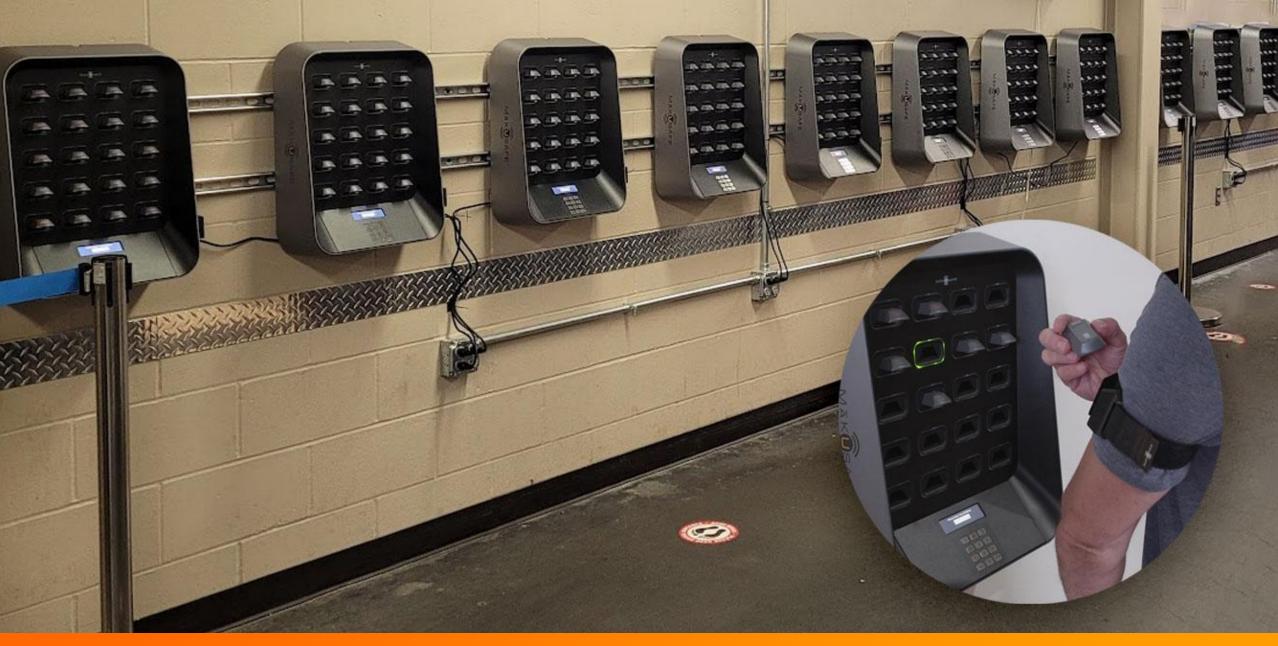
Effectiveness, Efficiency & Productivity Impact

















The MākuSafe AllyTM gathers & transmits data in real-time to the MākuSmart Cloud.

Motion Detection

Slips, 7

Slips, Trips, and Falls

 ∞

Repetitive Motions



Worker Physicality



Forceful Exertion

Battery



22 Hour Battery



Multiple Shifts





TOP

Spatial Awareness

Location Identification



Worker-to-worker Proximity



Access Control & Factory 4.0



Contact Tracing

Environmental Sensors

Ambient Light



Air Quality (TVOC & CO2)



Noise / Sound Dosage



Air Pressure



Humidity



Temperature



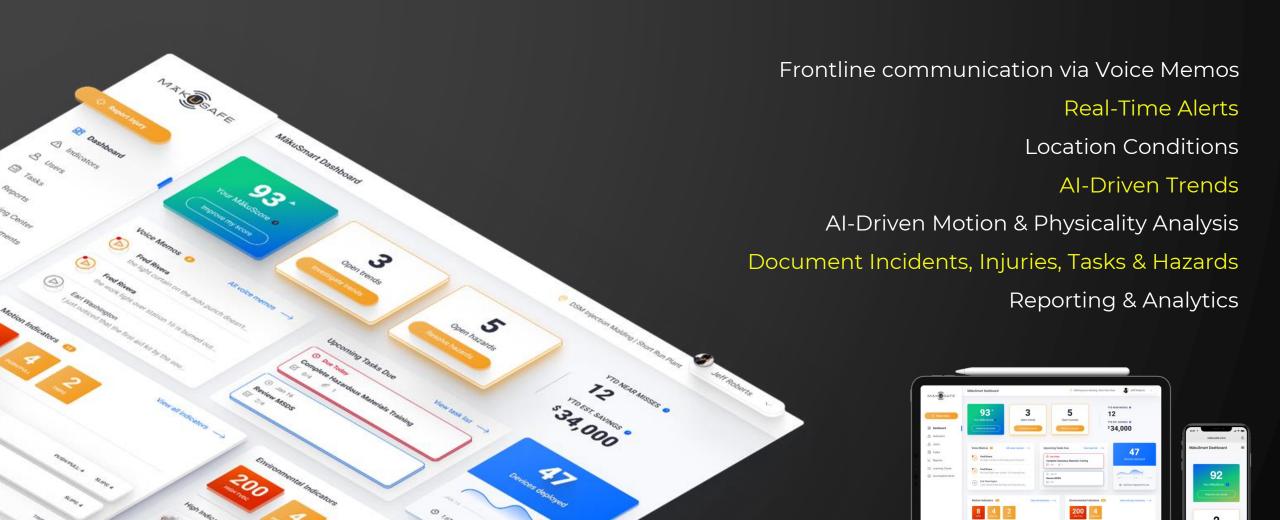


MākuSafe <u>Does Not</u>:

- Collect anything personal (No PII)
- Monitor any biometrics
- Deliver any negative feedback to the worker; haptic, visual, or auditory
- Assume the worker is the problem, or knows what to do to correct it
- Continuously track the individual







Support for Multiple Devices



T.R.U.E. Leading Indicators of Hazards & Risk

T – Timely

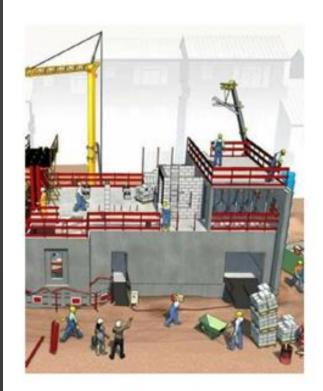
R – Relevant

U – Unique & Useful

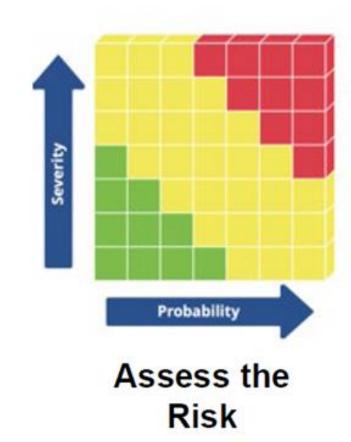
E – Easy & Economical







Identify Hazards



Elimination Substitution Controls Administrative Controls Control the Hazard





Culture, Engagement, Mindset Humble Curiosity, Positive Recognition



Human and organizational performance (HOP) is a risk focused OPERATING PHILOSOPHY which recognizes that to ERROR is human and that an organization's PROCESSES AND SYSTEMS greatly influence employee actions and choices, and consequently, their likelihood of success.

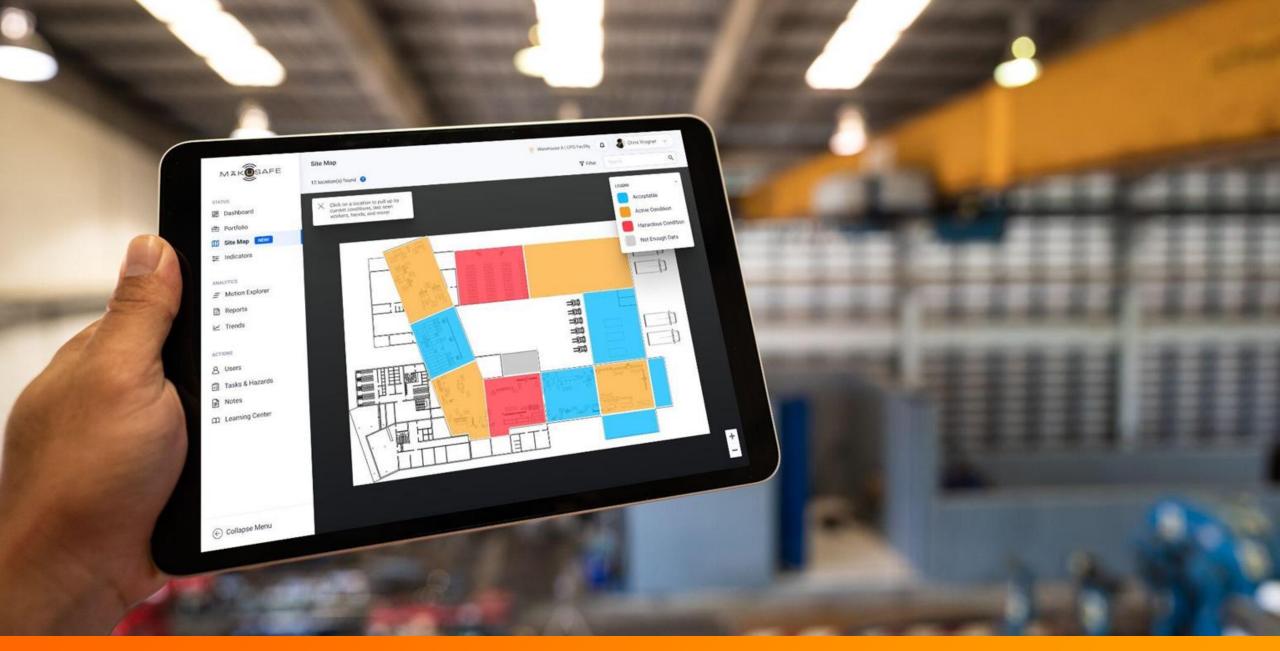














- Client Case Study
- Long standing construction client
- Deploying across numerous large data center projects
- Multi employer job sites
- ESG & Safety management program reporting to customer helps win projects
- Achieved and maintained 0.0% TRIR on sites where MākuSafe is being used
- 31 months



YOUR VIRTUAL SAFETY TEAM: MAKUSAFE + DATA CENTERS

LEADING WITH SAFETY IN MISSION CRITICAL

The Weitz Company has always put safety at the forefront of our projects. With Mission Critical and data centers becoming a bigger focus of our efforts, MakuSafe was an great way to implement new technology and help protect workers. MakuSafe is a data analytics company located in West Des Moines, Iowa. They specialize in equipping workers with wearable safety devices that record data to help safety managers predict and correct potential hazardous issues on the job site.

MakuSafe prides themselves as an award-winning safety, data & analytics. solution aimed at improving worker health, safety, and productivity while reducing incidents and mitigating workplace hazards and risk exposures. This innovative wearable technology provides immediate access to real-time EHS data with predictive value.

THE BENEFITS OF PREVENTATIVE TECHNOLOGY

The vast majority of near misses on the job site do not get reported. These small indicators can be huge signs of a potential hazard to come. When you can approach your job site from a proactive stance, you can begin to see a culture be formed.

On our current data center projects, we have teamed up with our trade partners to deploy all devices and are mining data looking for trends. that can prevent injuries. We aren't reacting to an injury report - we're

preventing the injury from happening. The National Safety Council reports that the average cost for a slip. or trip that requires time away from the job costs a company an average of \$46,000.

HOW IT WORKS

With four different types of data collected, these small armbands collect environmental conditions, forceful motions, sound, and location information. CONTRIBUTORS

KASSI ZENDR Project Executive



GREG MARTIN lice President & General Manage

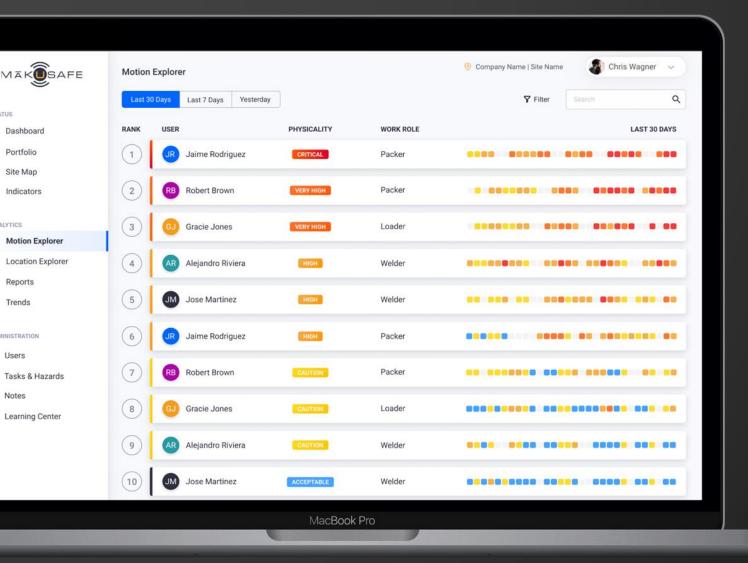






THE WEST COMPANY AND MAKESAFE





Visualize worker's expended effort and potential impact on them for the day





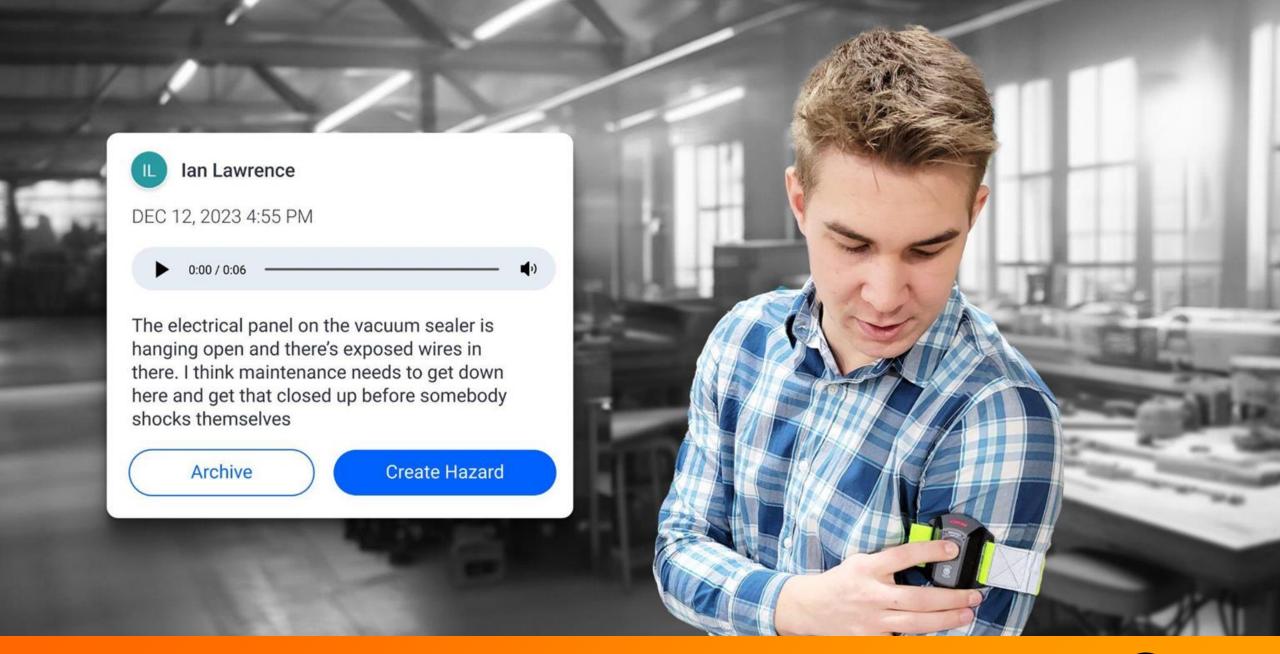


- Client Case Study done through their insurer
- Trucking & transportation
- Reduced strain & exertion injuries by 56% in year one.
- They realized \$450,000 in WC savings per site











- Client Case Study done with NSC
- Nationwide Logistics Organization
- Reduced lost time injuries by 74% in year one
- Continuous stream of feedback from the front lines
- Positive cultural impact documented



WORKtoZERO

Safety Technology Case Study

Data Analytics and Wearables



According to the National Safety Council, musculoskeletal disorders (MSDs) are the most common workplace injury, affecting nearly one quarter of the global population. They often result from workplace tasks that involve actions like repetitive movements, awkward or static postures, and forceful exertions. Examples of MSDs include:

- Strains and Sprains
- Muscle Rapture Tendanitis
- Carpal Turnel Syndrome · Hernlaned Discs.
 - Hernia

To reduce injuries and better understand the leading indicators of MSDs, NFI Industries began piloting the MäkuSafe system, which combines wearable technology with data analytics to deduce the intensity of a worker's effort expended, arrive at conclusions about the level of potential impact on them for each day, and provide



NFI is currently piloting 120 M6kuSate wearables across three locations, primarily focused on workers performing material-handling tasks (e.g. loading and unloading).

other data-driven insights (e.g. movement type, incident time, and location).

Data insights provided by MäkuSafe, combined with customized lifting training and behavior-based safety tactics, have allowed safety leaders to successfully offer support and coaching to at risk employees. In fact, quarterly injury results found a 74% reduction in injuries at the pilot sites.

Culturally, employee survey results show that safety is in the top quartile in terms of favorability, further exemplified by the workers' willingness to utilize the units. voluntarily.



As NFI continues expanding their use of the MilkuSofe system, they provided several lessons learned when it comes to adopting technology.

- Introduction of a behavior based safety process allowed NFI to improve the culture around technology and safety organization-wide
- · Maintain transparency and trust with employees. Explain the goals of the technology, how it works, how data will be used, etc.
- Continuously gather formal informal feedback from employees and managers using the technology
- Engage with your IT department for issues around configuration, security, and
- Understand the capabilities, mechanisms, and shortcomings of the technology. avoid being sold by bells and whiatles

Employer



Based in Camden, New Jersey. NFI is a third-party logistics provider that offers domestic and international supply chain splutions. NPI employees an estimated 16,800 associates nationwide.

Technology



Based in Des Moines, lows, Milks, Safe is a Safety, Date & Analytics solution. The MikuSale avatem combines a safety management on two w platform with wearship technology, providing real-time EHS data with predictive value.











Shifting Safety Culture

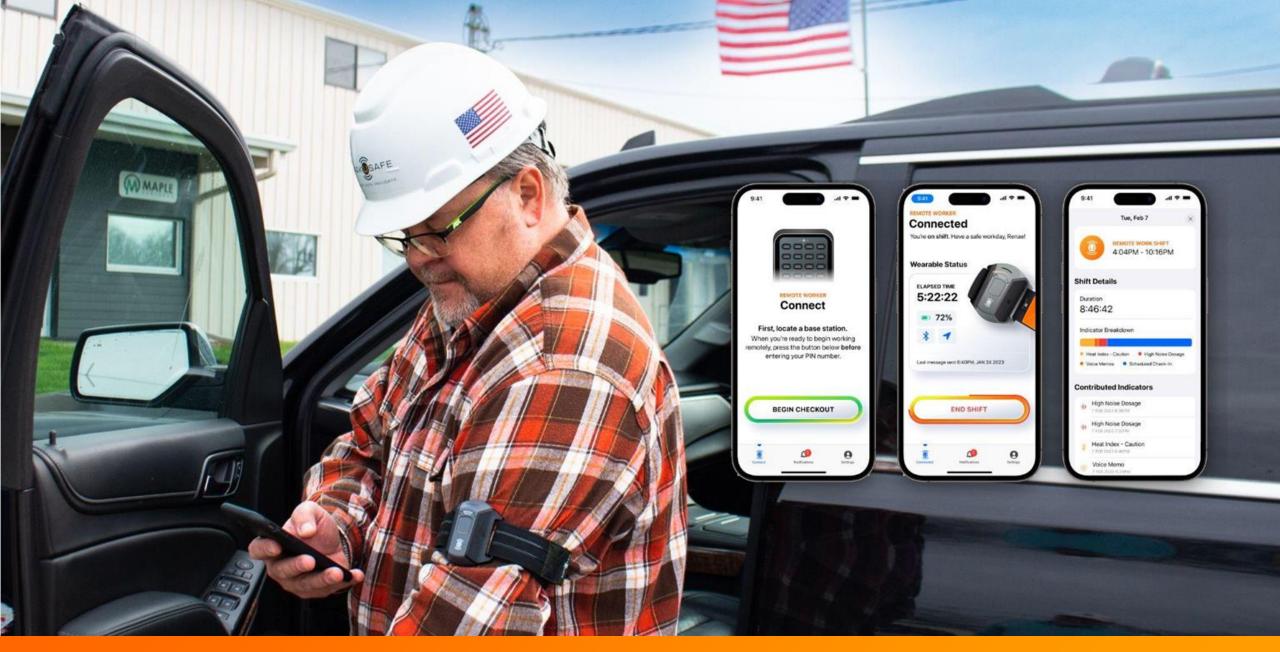


Shifting Safety Culture



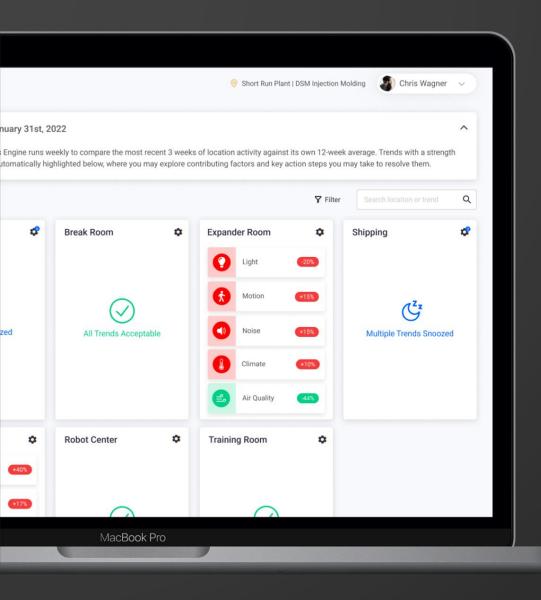
Stronger Cultures + Safety Mindfulness + Worker Engagement =

14X Safer Workplaces with 70% Incident Reduction Higher Quality & Higher Productivity









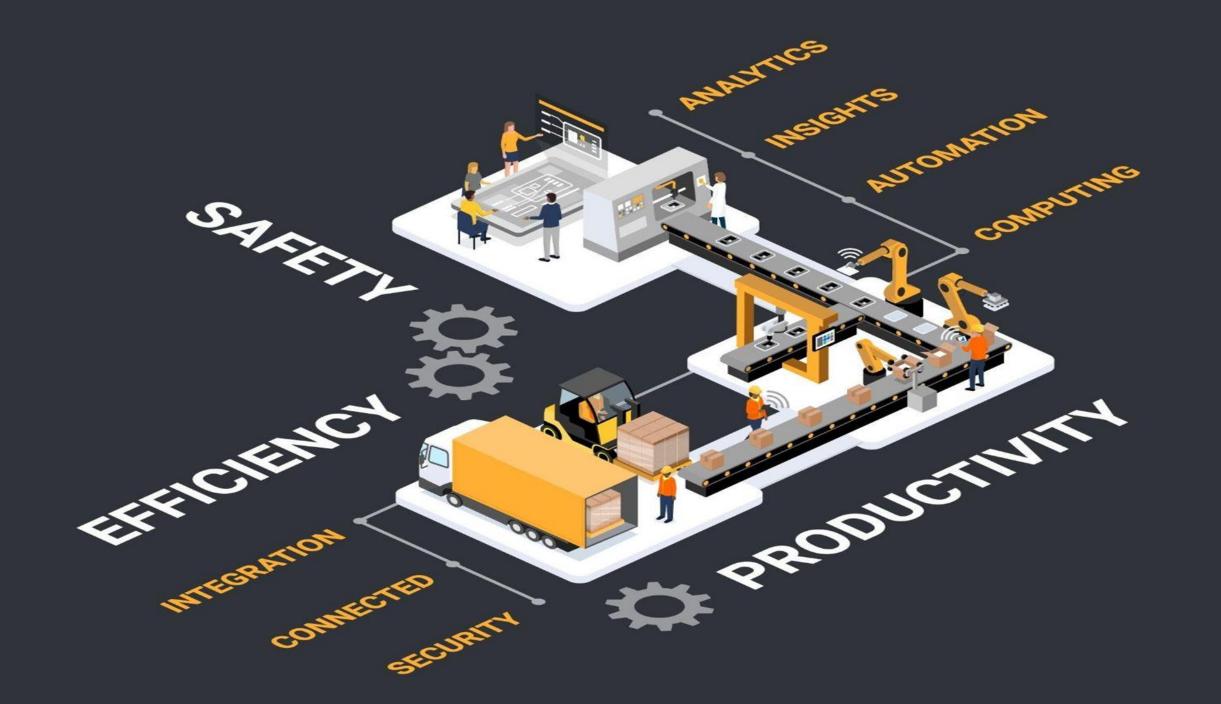


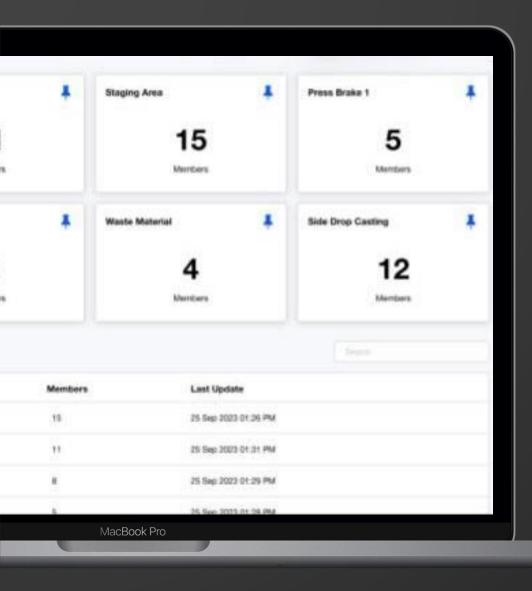
DANGER

BE CAREFUL
WHEN BELT
IS IN MOTION.









DATA:

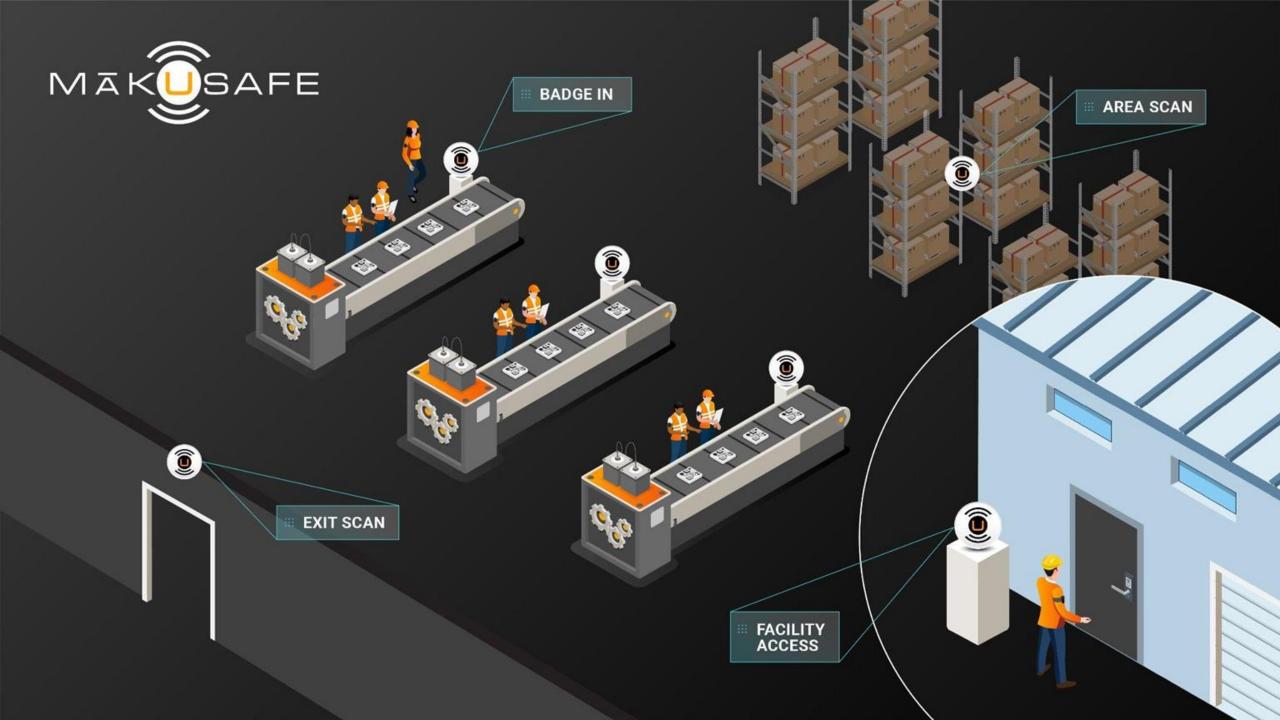
- Who
- Where
- Time
- When
- Duration
- Credentials
- Integration

BENEFITS:

- Automation, Control
- Permit, Restrict
- Productivity
- Line Position Tracking
- Cost Accounting
- Safety











MAKUSAFE



OVERVIEW FLYER



PRODUCT SUMMARY



MANUFACTURING USE CASES

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