



BaselineNC

NAFMP Solution Series

June 23, 2026

Slides are available **now** at

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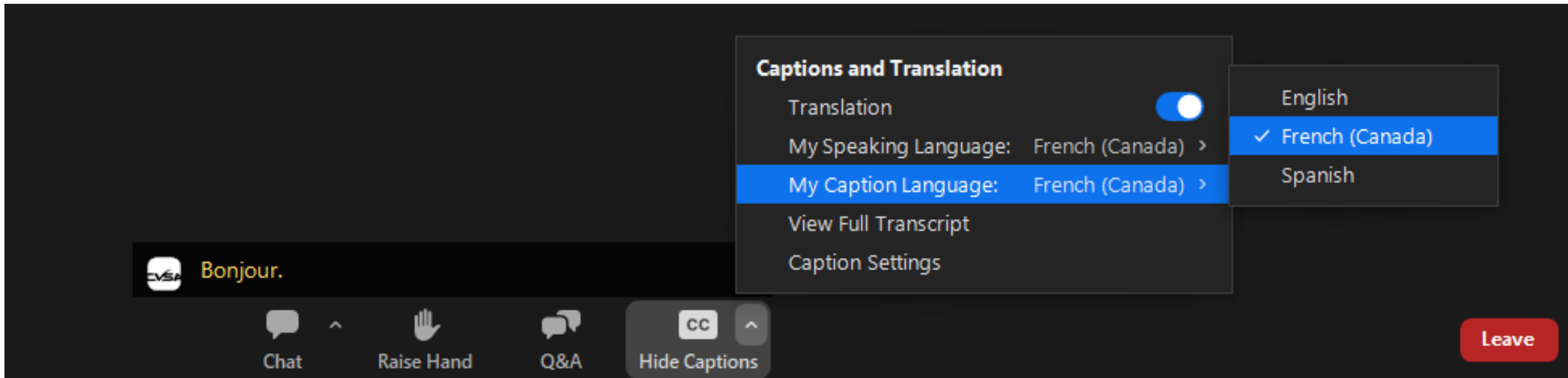
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Featured Speaker



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1. Fatigue Management and Vendor Solutions
2. BaselineNC Presentation
3. Questions

- Neither CVSA nor the NAFMP endorses or recommends any specific product or service
- The claims and system specifications of vendors have not been validated by CVSA or the NAFMP
- Solutions are a key component of a Fatigue Management Program

➤ Safety Culture

- 1) Education
- 2) Training
- 3) Continuous communications – Including partnerships

➤ Fatigue Risk Management System

- 1) Operations
- 2) Identify risks with processes and controls
 - Predictive, proactive, reactive
 - Sound scheduling & routing practices, sleep disorders management program, and fatigue detection technologies
- 3) Risk assessment
- 4) Measures and countermeasures
- 5) Evaluation

- Tools
 - FMP Template
 - Implementation Manual
 - ROI Calculator
- Courses
 - eLearning Platform
 - PowerPoints with and without audio
 - For carrier's executives, safety managers, dispatchers, instructors, drivers, driver's families, shippers & receivers
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Agenda

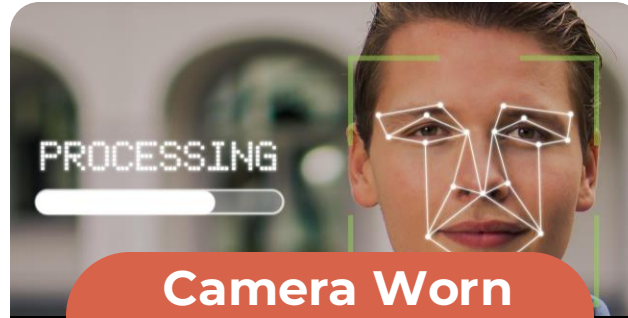
- **Defining Predictive Fatigue Risk Management**
- **BaselineNC™ Workplace Fatigue Monitoring Wearable Overview**
- **Key Differentiators, Important Considerations and Value of Longitudinal Data**
- **Enterprise-Wide Workplace Fatigue Risk Management**
- **Three Easy Steps to Implement**
- **Q&A**

Predictive Fatigue Risk Management



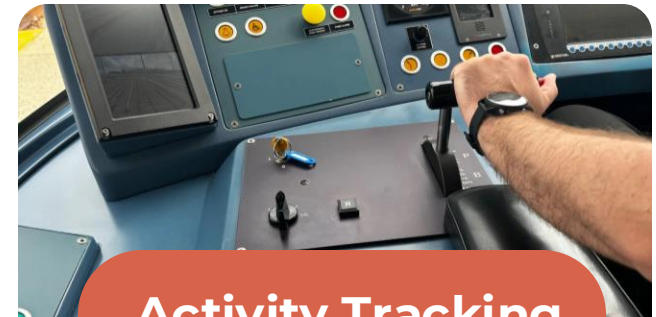
Traditional Methods

- Surveys to measure sleepiness and fatigue.
- Use the HSE Fatigue Risk Index.
- Monitor sleep hygiene and shift patterns.
- Historical data rather than real time.



Camera Worn and EEG Devices

- Facial recognition technology or electroencephalography (EEG) sensors to monitor brain activity.
- Can send real-time alerts.
- Static and obtrusive (camera or head worn).
- False positives need checked.



Activity Tracking

- Validated by published research papers.
- Medical grade sensors.
- Unobtrusive wearable device.
- Real-time monitoring RAG alerting.
- Algorithm uses machine learning.

BaselineNC™
Workplace Fatigue
Monitoring
Wearable Overview



The “Why” Behind BaselineNC

- **BaselineNC detects fatigue before it becomes a risk.**
 - Designed to mitigate fatigue-related accidents and incidents whilst increasing worker productivity (by human factors experts).
- **Uses predictive analytics through real-time monitoring of biometric data.**
- **Positively impacts lost time injury frequency rate (LTIFR) and overall productivity costs.**
 - By mitigating the negative impacts of fatigue-related accidents and incidents that can lead to higher but healthy worker performance, lower absence rates and less downtime.
- **Aims to prevent potential insurance and legal expenses.**
- **The ONLY real-time workplace fatigue monitoring wearable with 98% biometric data accuracy.**



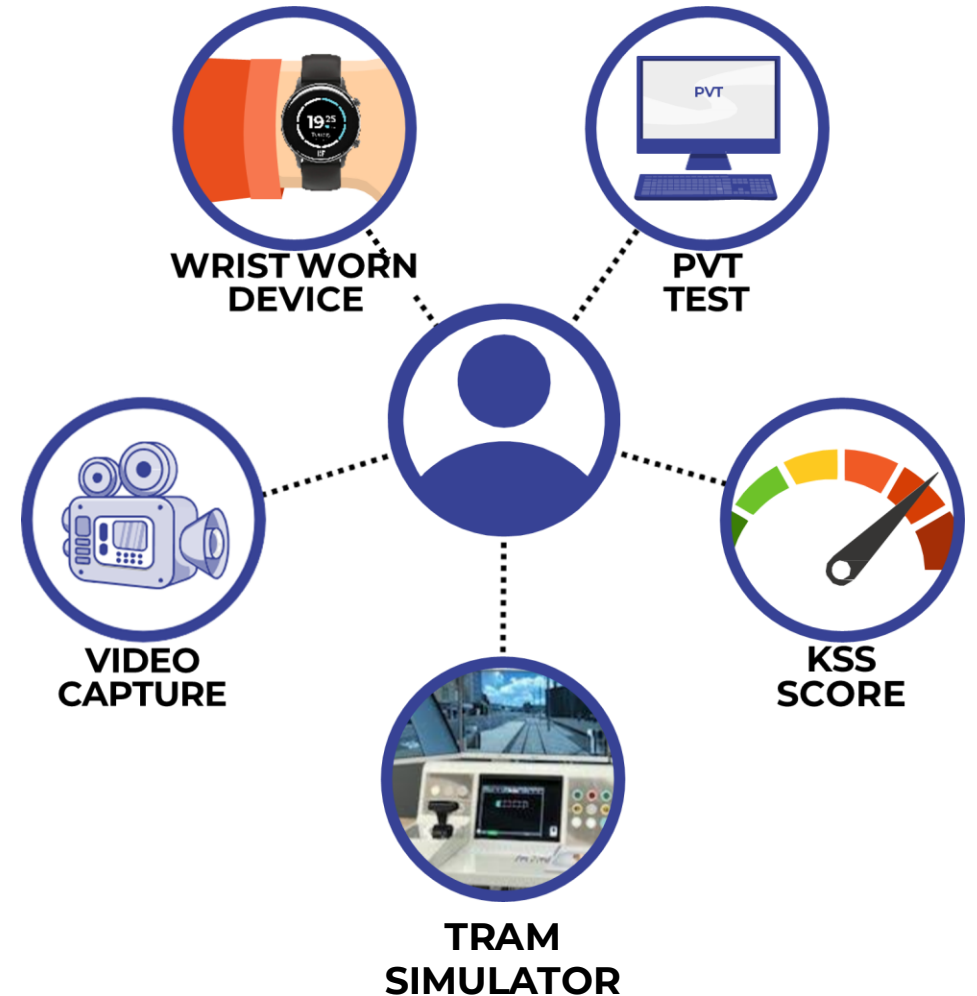
BASELINE NC™

Wearable Device: Novel Sensor Positioning

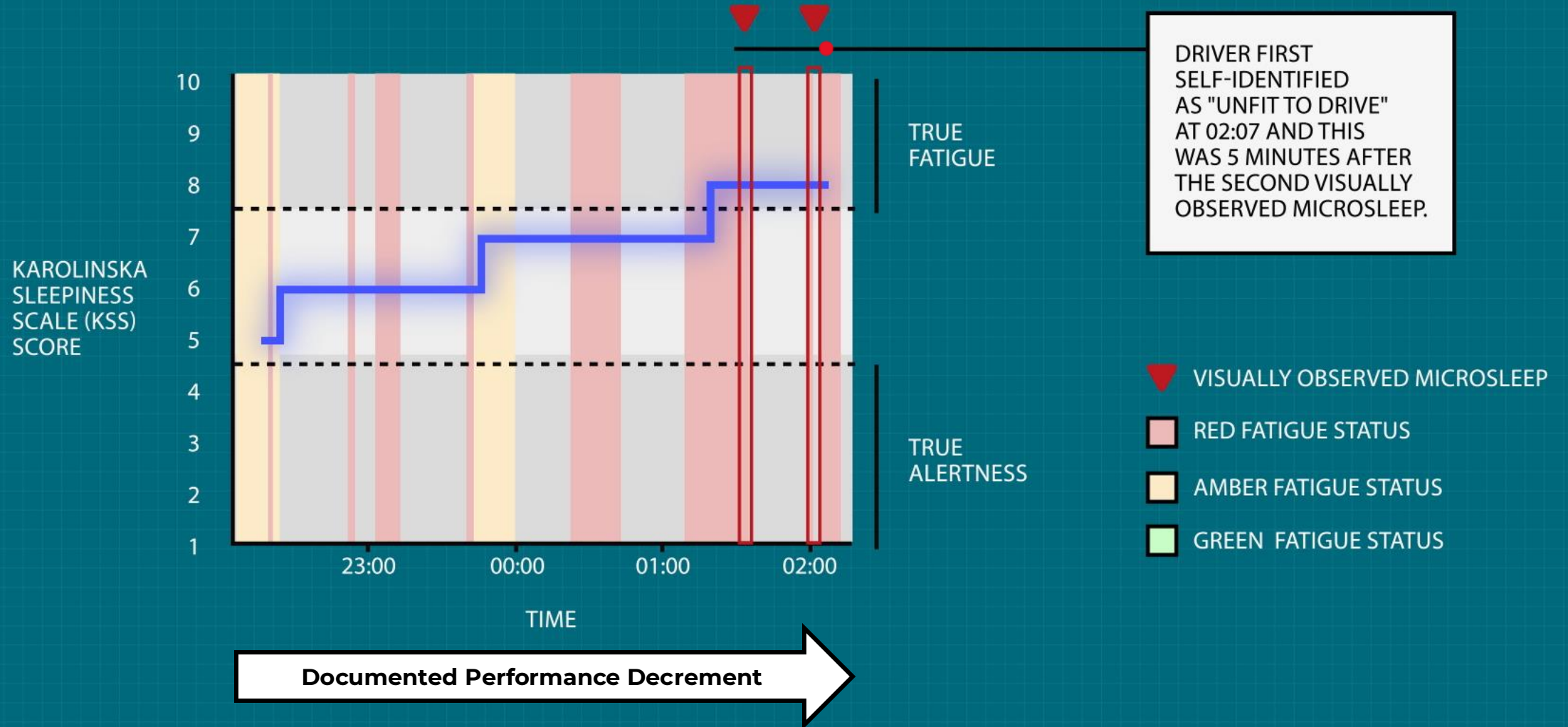


Independent Testing: 98% Data Accuracy

- Wearable has undergone comprehensive IHF and independent testing.
- Assessment results showed the pre-emptive detection of the onset of worker fatigue by BaselineNC HOURS before two visually observed microsleeps and self-assessment by the driver.
- Ultimately, BaselineNC was able to highlight the driver's steady decline to a state of dangerous fatigue.

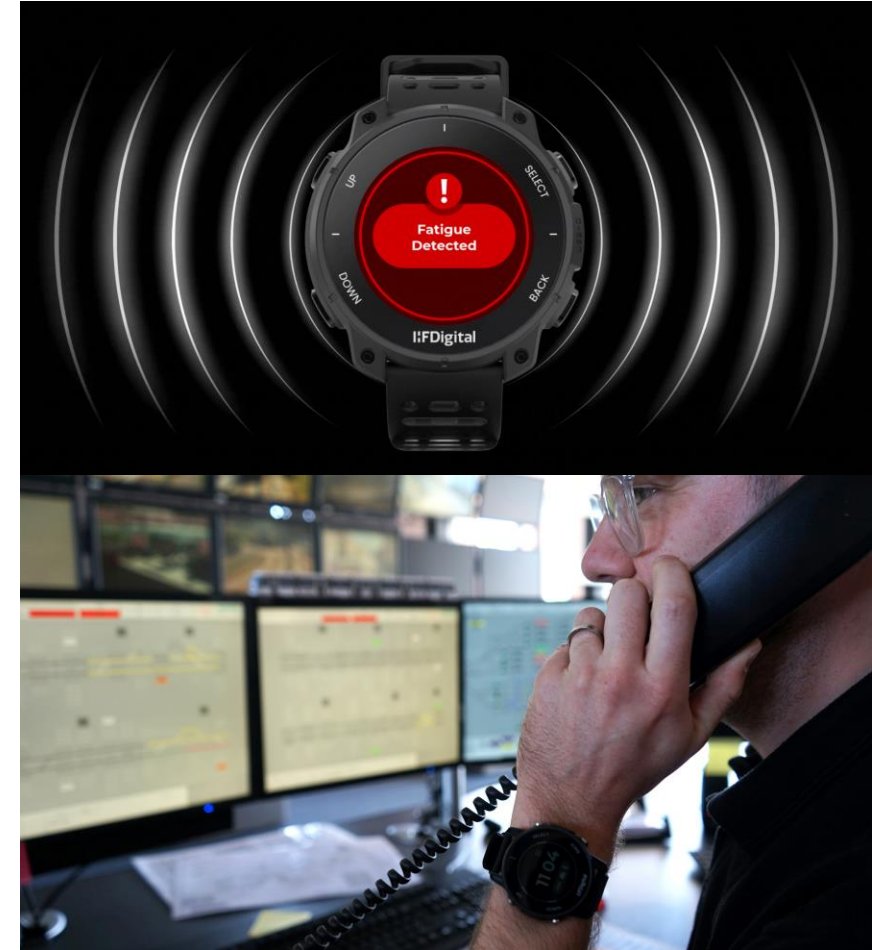


The BaselineNC algorithm pre-emptively identified amber and red levels of fatigue hours before a level 8 Karolinska Sleepiness Scale (KSS) score was provided by the driver and two visually observed microsleeps.



Other Key Differentiators

- **Detect fatigue risk before it emerges on camera.**
 - High specificity — not prone to error — low false positives and will not cause alarm fatigue.
 - Measures inattention through cognitive decline.
- **Portable, not restricted to in-cab usage and no installation required.**
- **Enables predictive fatigue risk management.**
 - Intelligently determines an algorithm — or a baseline — for each individual.
 - Enterprise-wide analytics, from frontline workers to the boardroom

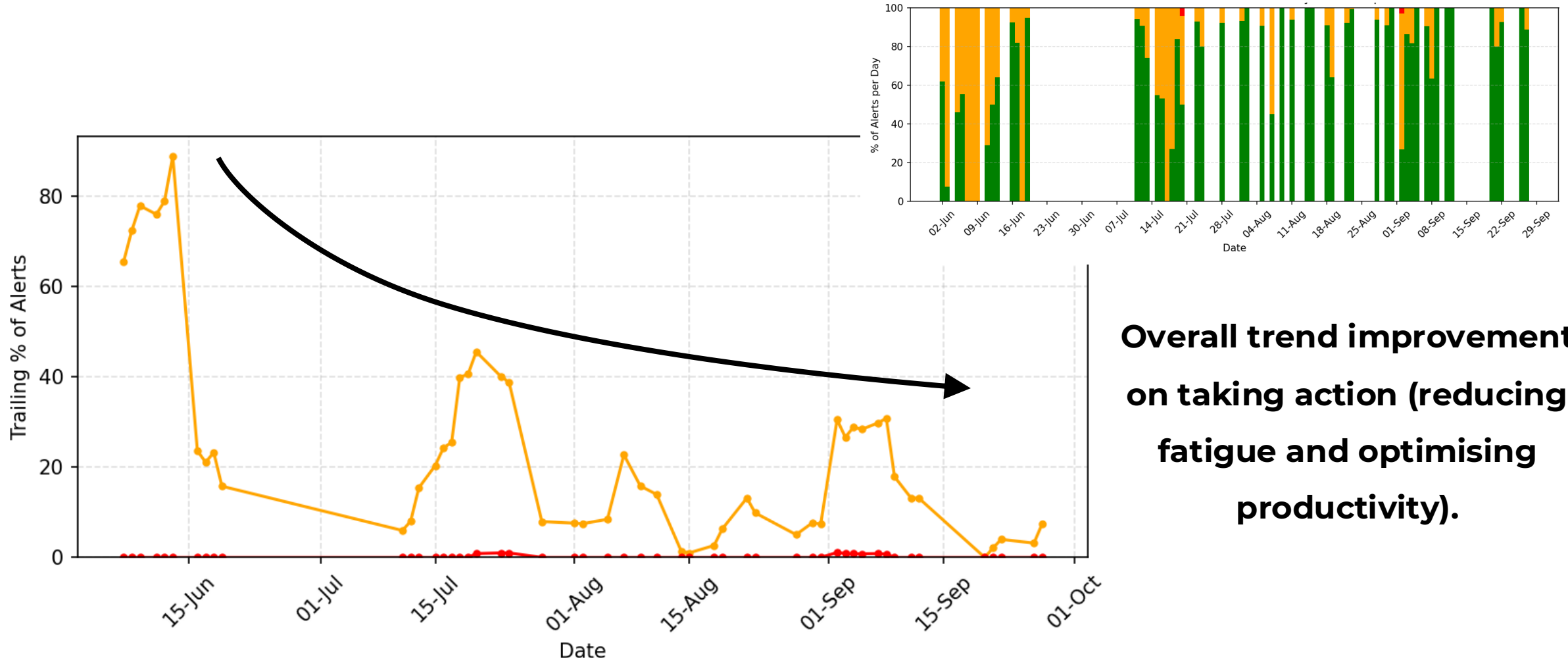


Important Considerations

- **Successful Union and User Engagement**
- **Continually Improving System**
- **Designed For Enterprise-Wide Insights**
- **Potential Heat Stress Monitoring Application**
- **Proactive Well-being**
- **Better Understanding Becomes Better Management**

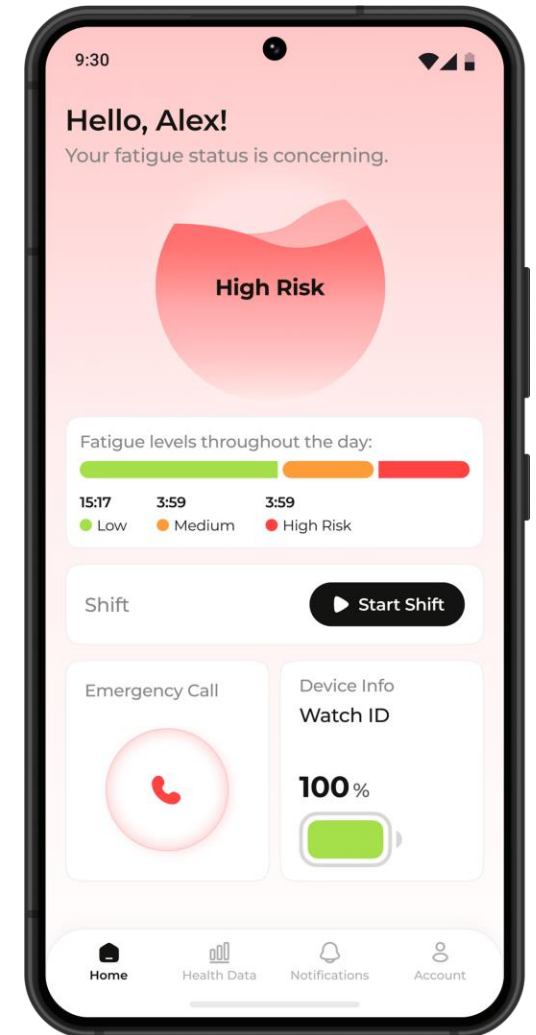
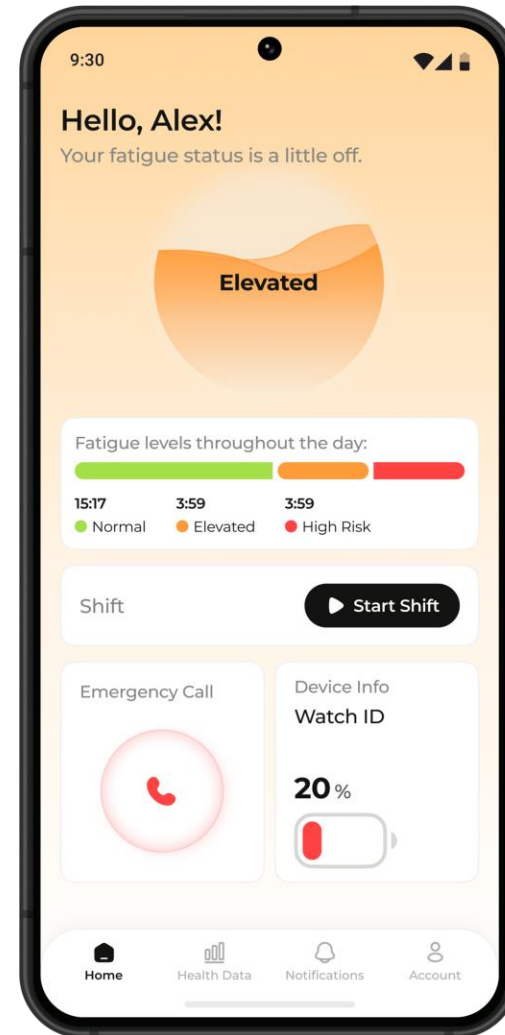
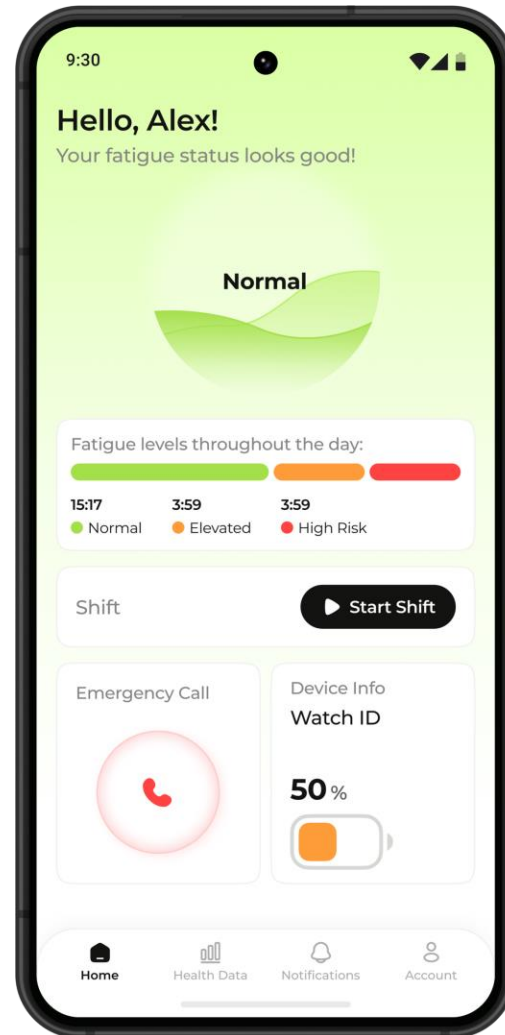
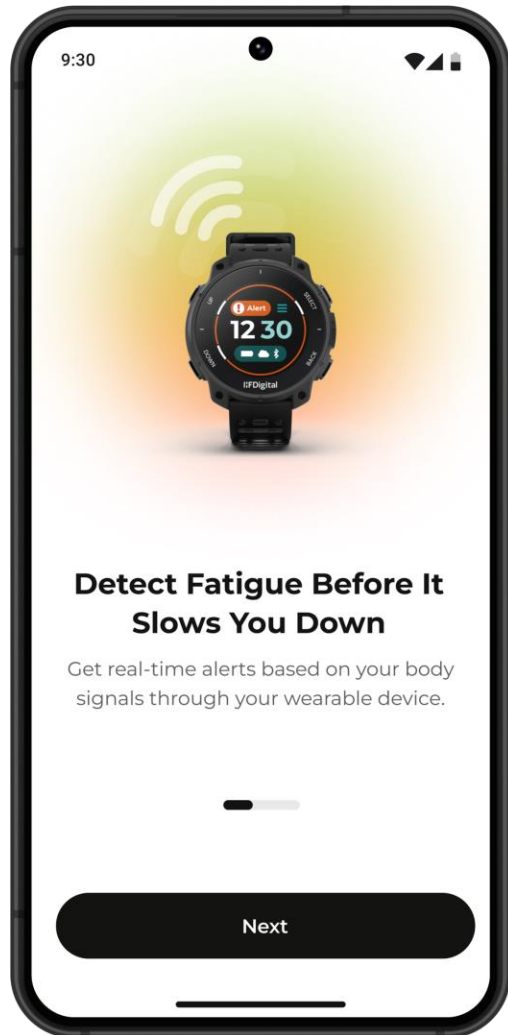


Value Proven With Longitudinal Data

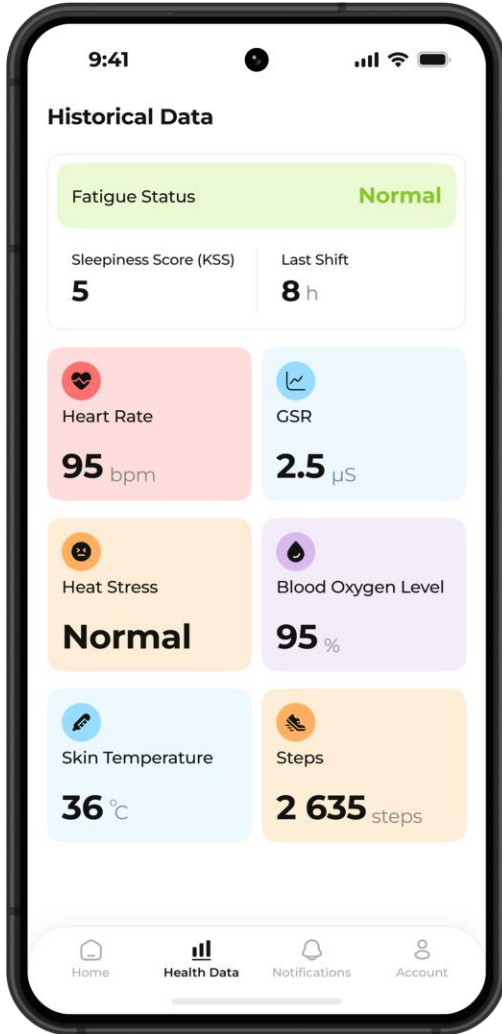
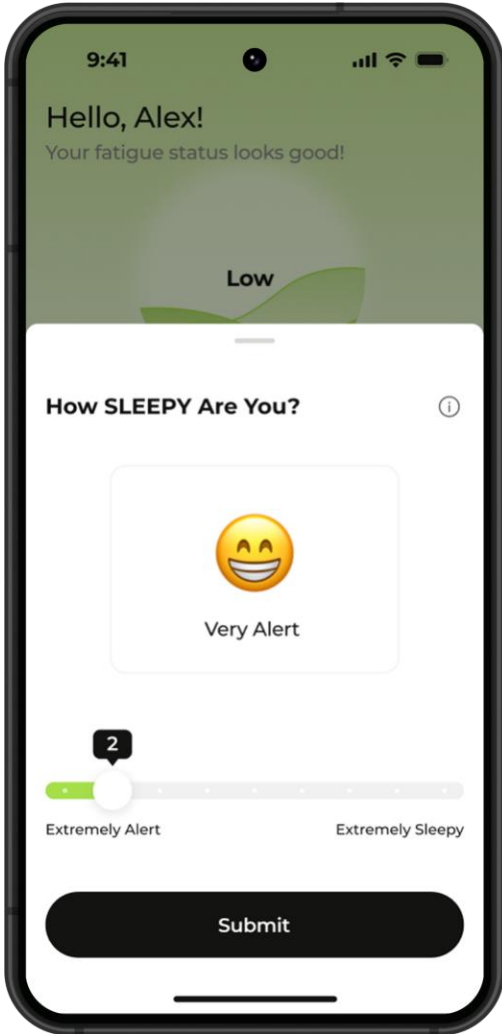
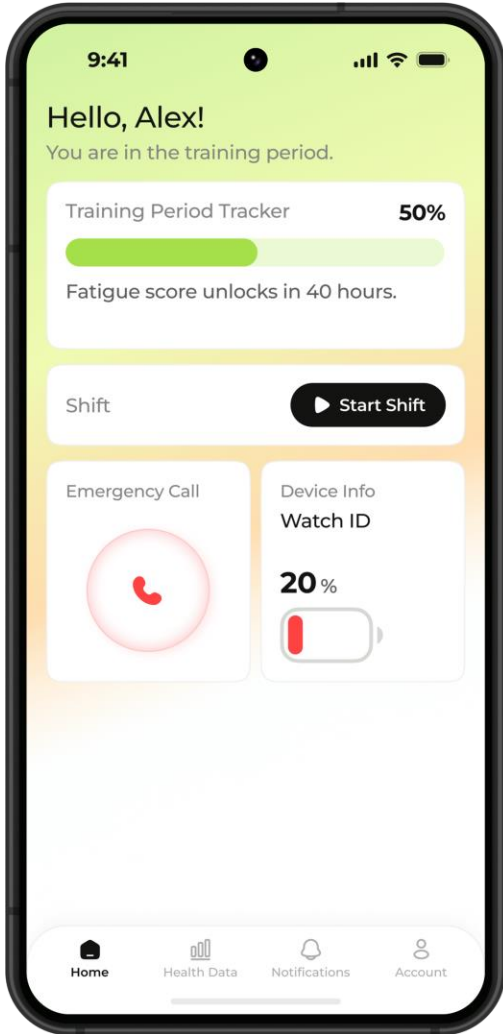


Overall trend improvement on taking action (reducing fatigue and optimising productivity).

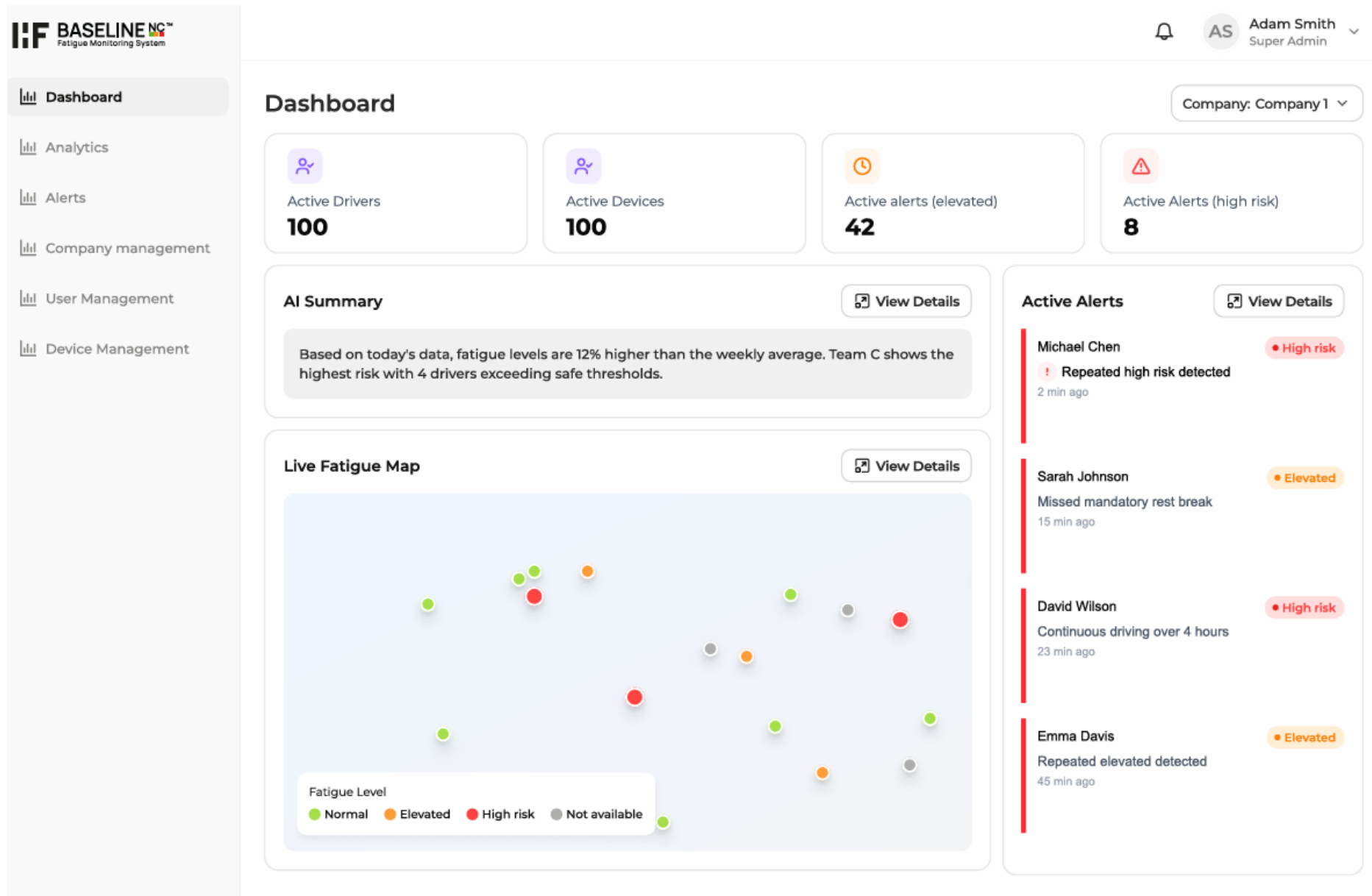
Mobile Application: RAG Statuses



Mobile Application: Safe Driver Mode



Data Example: Control Room Dashboard



Three Easy Steps to Implement

**Introduction and
Issuance of Devices**
No hardware installation.



**Short Algorithm
Training Period**
On the job through wearable usage.



**When Baseline Is Created:
You Are Up and Running!**



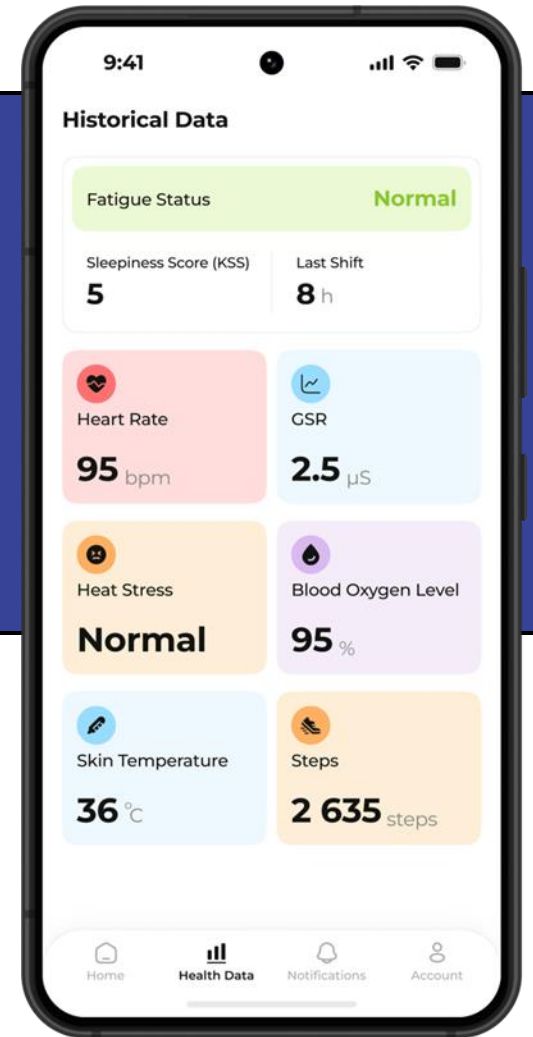
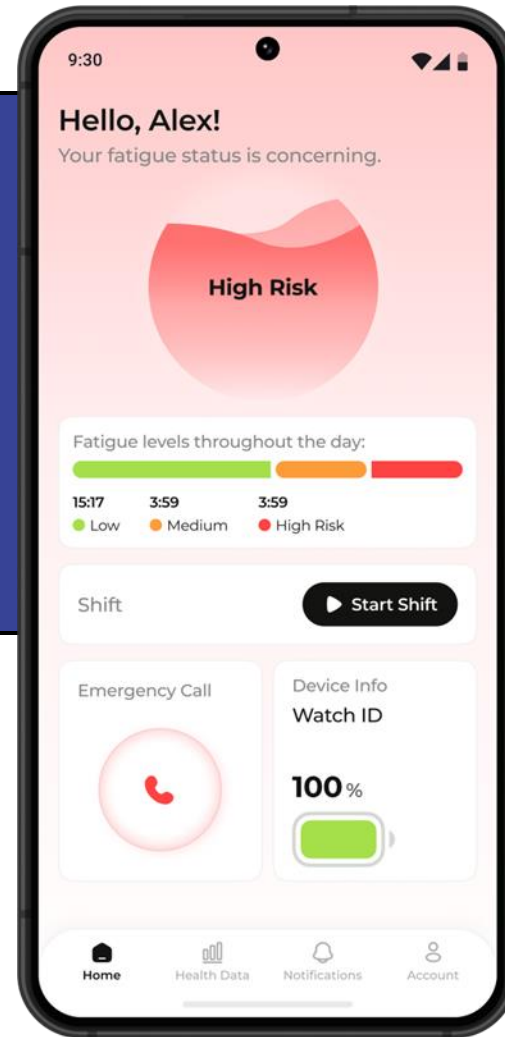
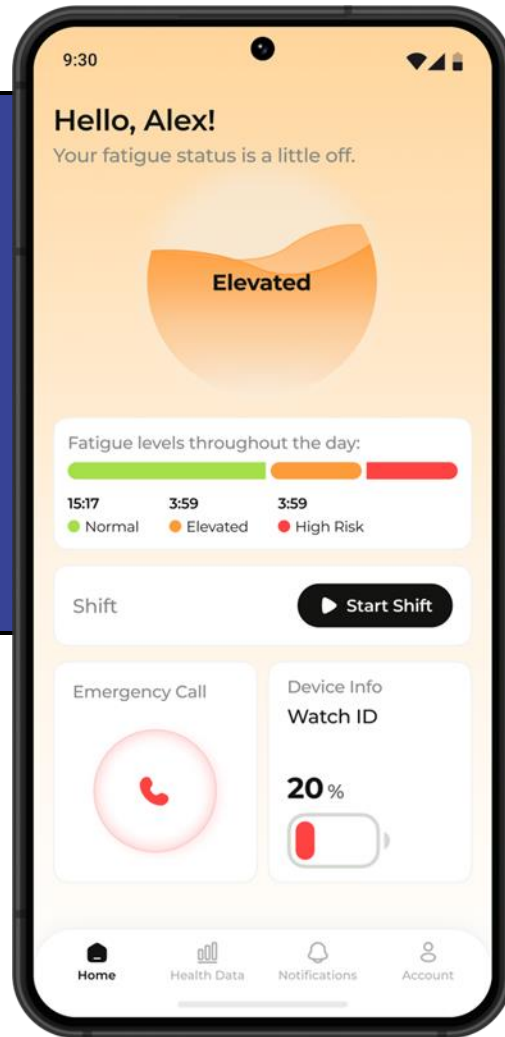
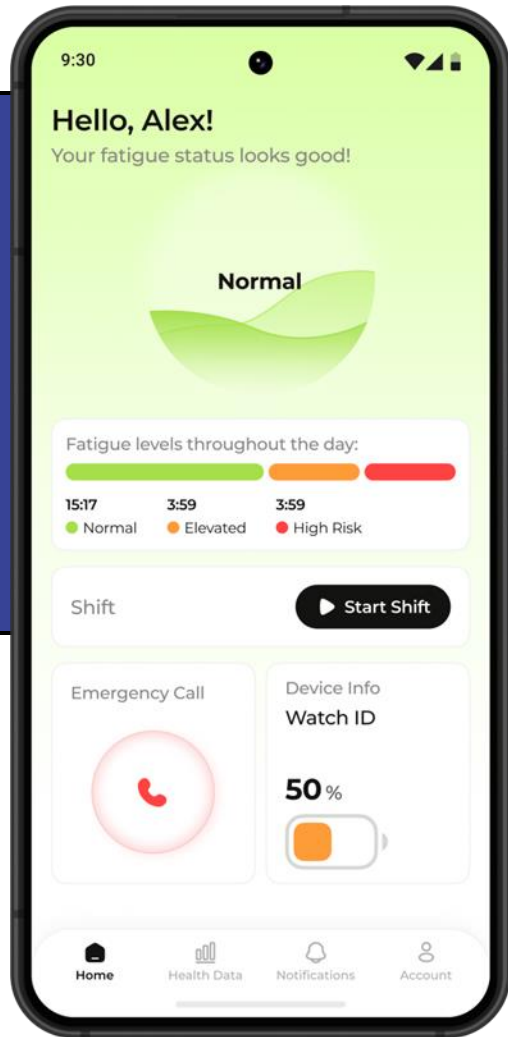
BASELINE NC™

There's No Longer an Excuse To Ignore the Signs

BaselineNC enables predictive, objective
and proactive fatigue risk management in
safety-critical environments.



Q&A



Additional Questions?



Email additional questions to
Rodolfo.Giacoman@CVSA.org

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nafmp.org/webinars

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Thank you!



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