



🌐 [www.slatesafety.com](http://www.slatesafety.com)  
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**Mission:**  
Eliminate preventable worker  
injuries and deaths



# Problem

**No easy way exists to prevent heat injuries for large groups performing hazardous work**

**\$100B per year**

Lost in productivity

**170,000 per year**

Worker injuries

**2,000 per year**

Worker deaths

**\$80K per injury**

In fines, compensation, etc.

**Current Solution** - Complicated environmental monitors measure ambient area not the person leading to guesswork and are not connected leading to manual paperwork



**"Heat is the leading cause of death among all weather-related phenomena, and it is becoming more dangerous as 18 of the last 19 years were the hottest on record."**

Sources: [Citizen.org](https://www.citizen.org), [OSHA.gov](https://www.osha.gov)



# Solution

An easy-to-use, rugged and reliable system to solve heat stress in real-time

BAND V2



- Worker simply wears BAND V2
- Biometrics & location data
- SOS, alerts & other notifications

SlateSafety Cloud



- Edge-based IoT architecture
- Enterprise security certifications
- Integrations available via API

SlateSafety Software



- Real-time dashboard & historical analytics
- Straightforward system configurability
- Web, Android and iOS Applications

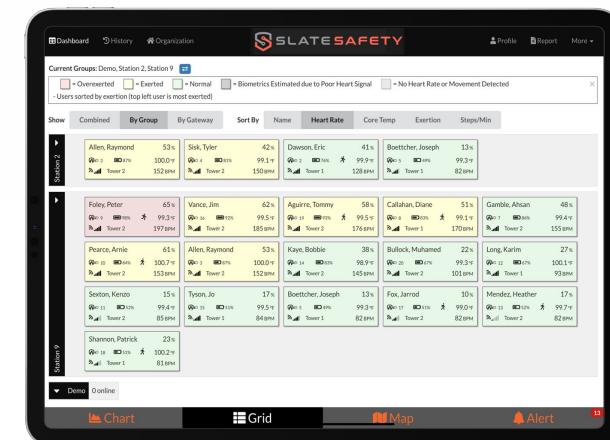


# The SlateSafety System

- Specifically designed to be **easy-to-use** with large groups of people.
- Heat stress metrics:
  - **Exertion,**
  - **Heart Rate,**
  - **Core Temperature,**
  - **ACGIH Heart Rate Limit Value (HRLV)**
- Lone Worker Metrics (toggleable):
  - **GPS**
  - **SOS TapAlert**
  - **No Movement Alert**



BAND V2



Real-time Dashboard



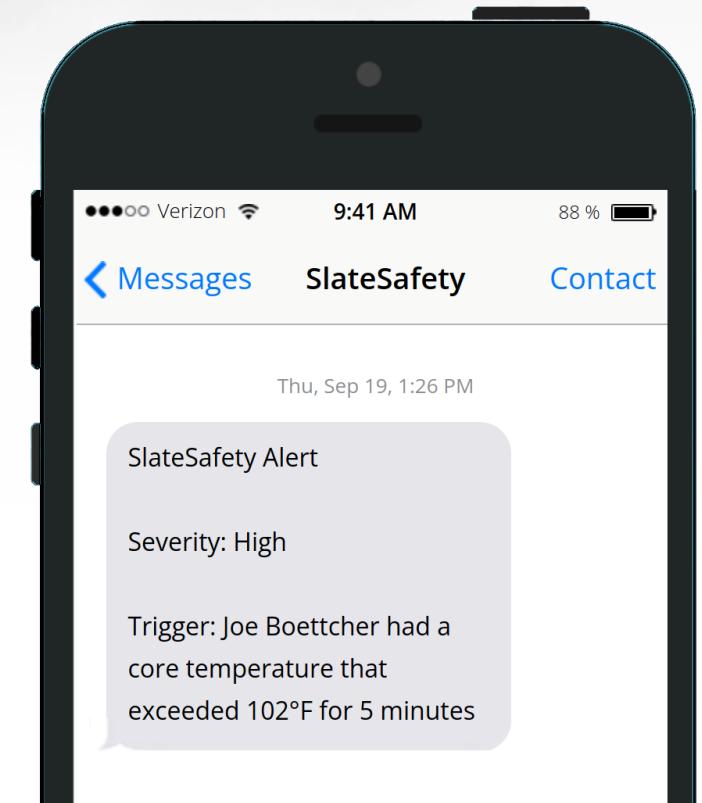
# The SlateSafety System

## Configurable Alerts

- Can change alert thresholds
- Can change alert contacts
- Receive alerts as text msg or email

Condition		Severity	
—	Heart Rate ▾	Greater Than	190 BPM ▾
—	Core Temp ▾	Greater Than	103.0 °F ▾
—	Exertion ▾	Greater Than	100 % ▾

Example Biometric Alert Thresholds



# Differentiation

- **Easy-to-Use System with No End User Configuration**
  - The wearer simply puts on a device for it to start working. No buttons!
  - After a one-time setup, the platform “just works”
- **Rugged and Reliable Device**
  - The wearable devices are built tough to withstand harsh conditions and are waterproof up to 150 feet.
- **Direct Cell Connection with Native Redundancy**
  - The band connects over the cellular network (just like a smartphone). If in a cell-denied area, it will automatically switch to a nearby SlateSafety gateway or store the data on the band until cellular connectivity is restored. Alerts will still trigger on the person even in a cell-denied area!
- **Flexible Software**
  - Powerful cloud-based software runs on any device



# Differentiation



BAND V2



Kenzen



Polar



Garmin



Oura

	SlateSafety BAND V2	Closest Competitor (Kenzen)	Chest Strap (Polar)	Consumer Watch (Garmin)	Consumer Ring (Oura)
Fitness Metrics	✓	✓	✓	✓	✓
Core Body Temperature	✓	✓	✗	✗	✗
Exertion	✓	✗	✗	✗	✗
ACGIH® Thresholds	✓	✗	✗	✗	✗
GPS/Location	✓	✗	✗	✓	✗
Easy-to-use for large groups	✓	✗	✗	✗	✗
Real-Time Safety Alerts	✓	✓	✗	✗	✗
Man Down/SoS Alert	✓	✗	✗	✓	✓
Integratable with other systems	✓	✗	✗	✓	✗
Automated Work/Rest Cycles	✓	✓	✗	✗	✗
Direct Cellular Connection	✓	✗	✗	✓	✗
Battery life over 24 hours	✓	✗	✓	✓	✓
Over-the-air updates	✓	✗	✗	✓	✓



# Competitive Advantage



Health and Safety Focused



Easy for Groups



Real-time alerts



Passive, passive, passive

Easy for Groups to Use



**SLATE SAFETY**

Fitness Focused



**Zephyr**

Safety Focused



**KENZEN**

**SAMSUNG**

**GARMIN**

Difficult for Groups to Use



# Customer Success Story: DoD Training Academy

## Background



High Temps



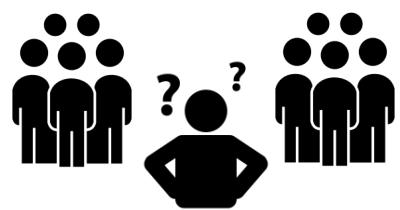
30+ Heat Injuries / yr



High Class Attrition Rates



DoD Training Class



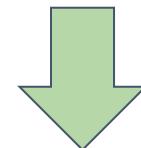
Need to monitor the safety of 600 students at once

## Our Solution



Frictionless install and incorporation into SOP.

Over 5,000 students monitored through 1,000,000+ training hours and 0 heat related injuries.



100% reduction in heat related injuries

"This wouldn't be possible with the [other system]. You would need a guy following everyone around with a laptop." -Contracting Officer



# Appendix



# BAND V2 Methods of Connectivity

No signal available or desired



BAND V2

- Alerts on the worker
- NO alerts to authorized safety official

No signal available or desired but near by alerting needed



Local Application

- Alerts on the worker
- Alerts sent to near by safety officials

No cellular signal, but WIFI present



GATEWAY V2

- Alerts on the worker
- Alerts sent to cloud via WIFI for authorized safety officials

Direct Cellular



Web Interface

- Alerts on the worker
- Alerts sent to directly to cloud for authorized safety officials



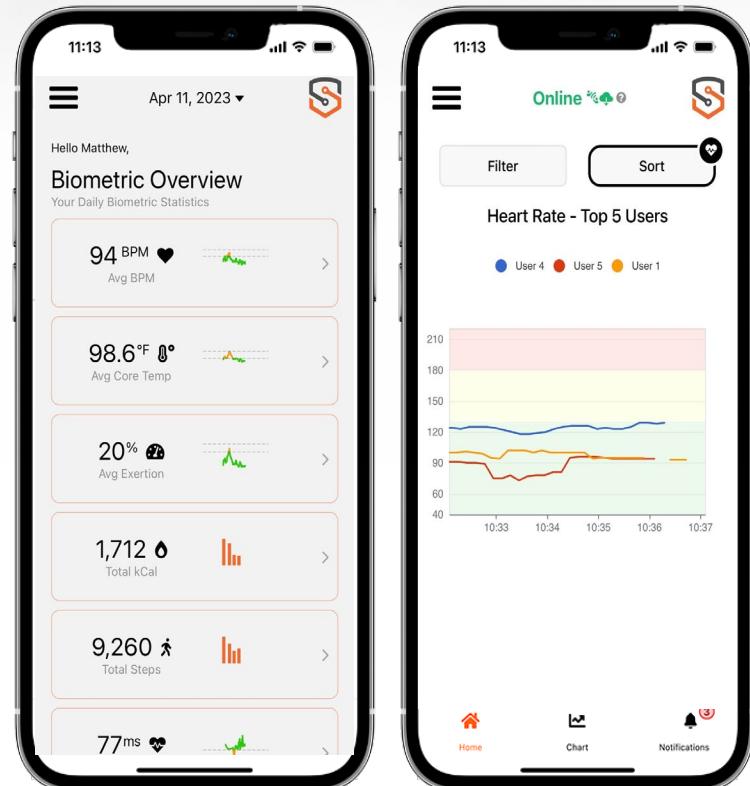
# The SlateSafety System

## SlateSafety Go

- iOS and Android App
- Ability to view live data easier on phone

## SlateSafety Go - My Stats

- Ability for workers to login and view their own data



# The SlateSafety System

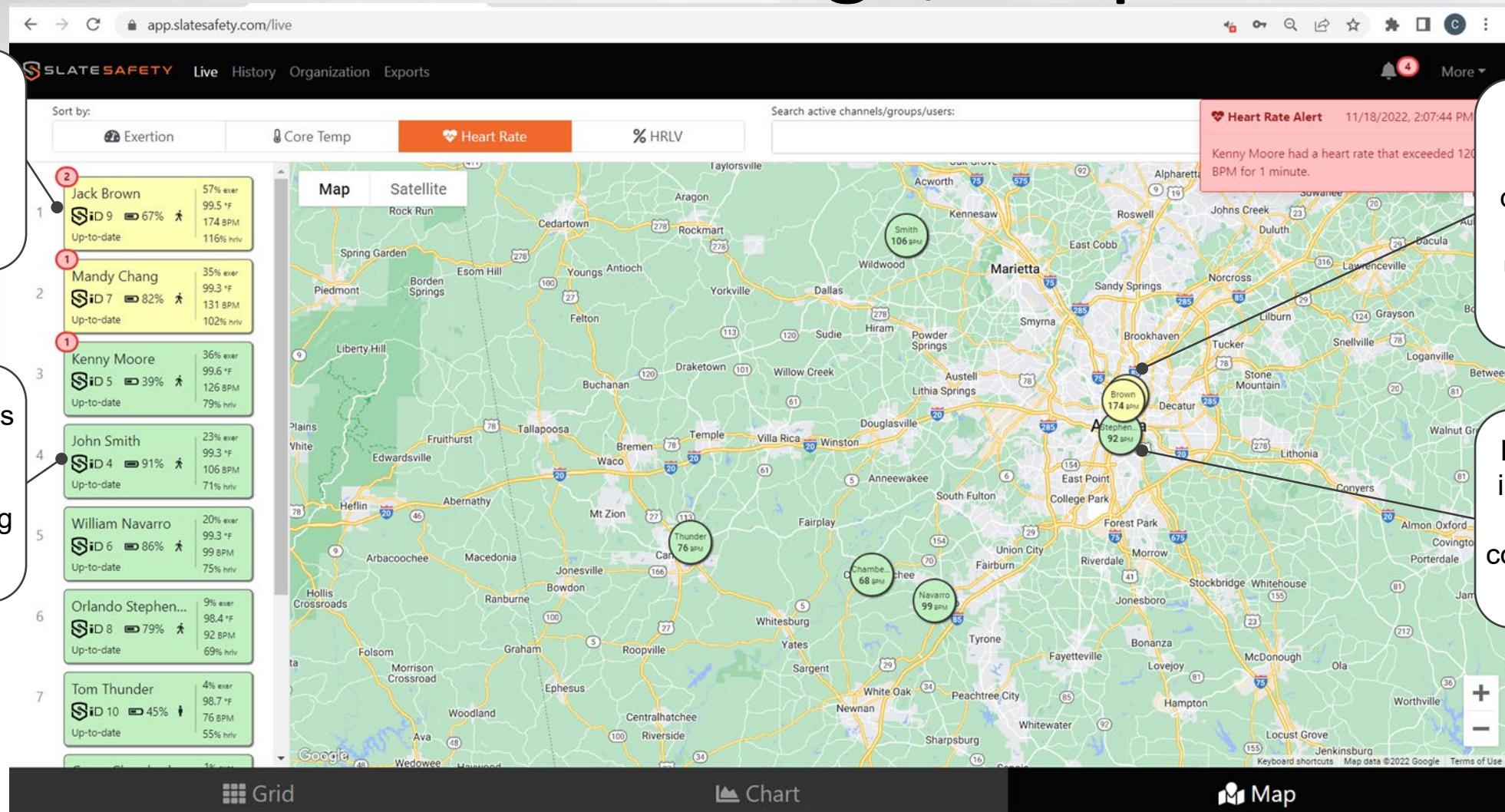


## BEACON V2

- Heat Index
- Temperature
- Humidity
- Real-Time and Historic Location



# Software: Live Page, Map View



# Software: Live Page, Grid View

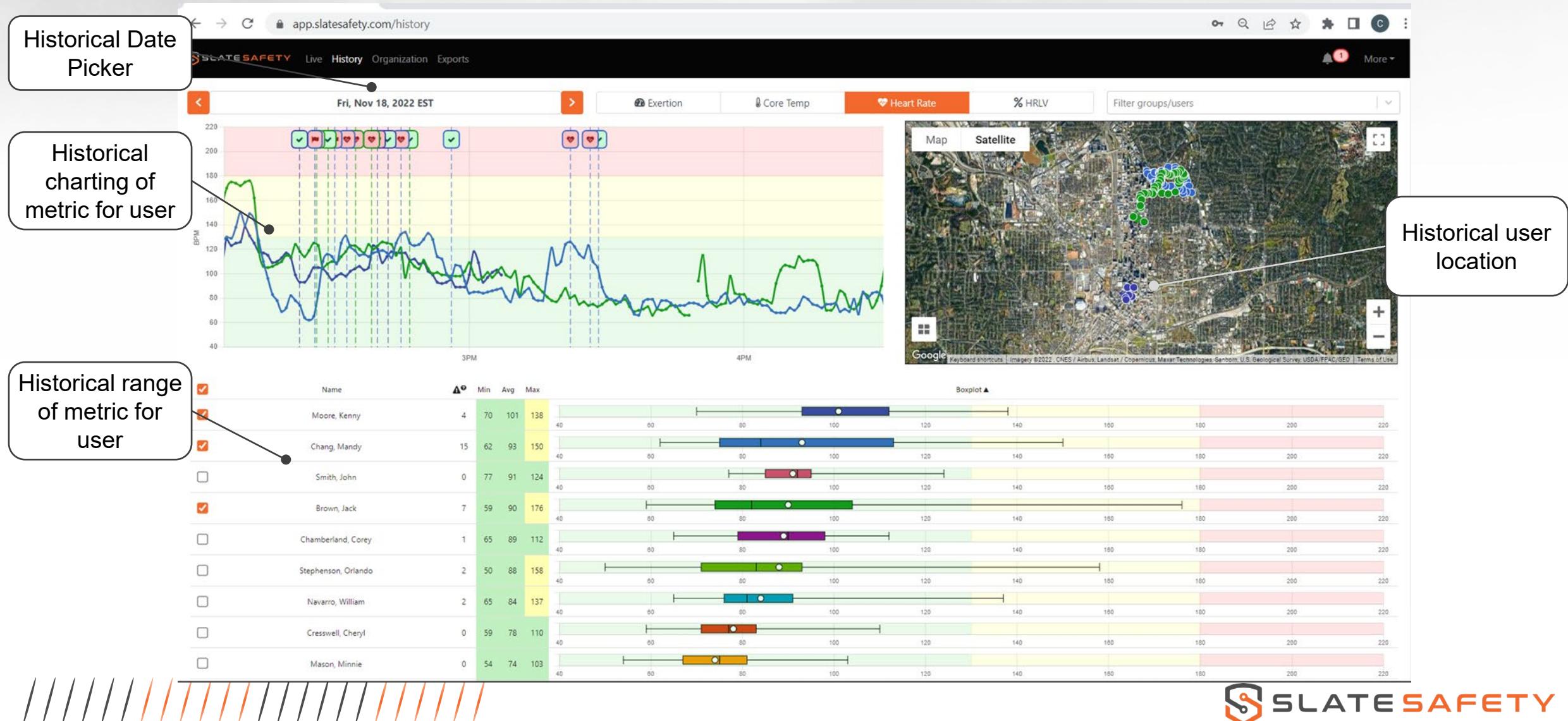
Sort User Cards by Group to see who is working where

The screenshot shows the Slate Safety Live Page in a grid view. The interface includes a header with the Slate Safety logo, navigation links (Live, History, Organization, Exports), and a notification bar with 11 messages and 3 alerts. The main area displays worker data in a grid, grouped by location (Plant 1 and Plant 2). Each worker card shows their name, SiD number, exertion level, core temp, heart rate, and HRV. A red callout box highlights a 'Heart Rate Alert' for Mandy Chang, stating: 'Mandy Chang had a heart rate that exceeded 120 BPM for 1 minute.' Another callout box in Plant 2 highlights a worker with 3 alerts. The bottom navigation bar includes 'Grid', 'Chart', and 'Map' buttons.

Plant	Worker	SiD	Exertion	Core Temp	Heart Rate	HRV
Plant 1	Mandy Chang	SiD 7	40% exert	99.6 °F	134 BPM	104% hriv
	Kenny Moore	SiD 5	28% exert	99.9 °F	101 BPM	63% hriv
	Orlando Stephen...	SiD 8	20% exert	100 °F	82 BPM	61% hriv
	Corey Chamberla...	SiD 3	19% exert	99.2 °F	97 BPM	67% hriv
Plant 2	John Smith	SiD 4	17% exert	99.5 °F	87 BPM	58% hriv
	Minnie Mason	SiD 2	0% exert	98.3 °F	62 BPM	41% hriv
	Jack Brown	SiD 9	39% exert	100.3 °F	114 BPM	76% hriv
	William Navarro	SiD 6	19% exert	99.3 °F	96 BPM	73% hriv
Tom Thunder	SiD 10	0% exert	98.6 °F	67 BPM	48% hriv	
Cheryl Cresswell	SiD 1	0% exert	98.3 °F	64 BPM	46% hriv	

Alerts in real-time when a worker has triggered an alert

# Software: History Page



# Software: Organization Page

The screenshot shows the SLATE SAFETY Organization Page. The page title is "Organization" and the URL is "app.slatesafety.com/organization". The main content area displays the organization "Georgia Concrete" with a "Groups (3)" section, a "Users (13)" section, a "Loadouts (3)" section, a "BANDs (10)" section, a "Gateways (0)" section, a "Contacts (0)" section, and a "Settings" section. A "Filters" section with a "Name" input field is also present. At the bottom, there is a table with columns: Name, # of Users, and Last BAND Usage. The table contains three rows: "Plant 1" (7 users, 2 minutes ago), "Plant 2" (4 users, 2 minutes ago), and "Plant 3" (0 users, Never). Action buttons "Edit" and "Batch Actions" are available for the table rows. A "New Group" button is located at the bottom right. The page footer includes a "Rows per page" dropdown set to 10, a page number "1-3 of 3", and navigation icons. Callout boxes on the left side point to "Organization Name", "Group Management", "User Management", and "Loadouts". Callout boxes on the right side point to "Device Management", "Gateway Management", "Additional Settings", and "Contact Management".

Organization Name

Group Management

User Management

Loadouts

Device Management

Gateway Management

Additional Settings

Contact Management

Organization

Live History Organization Exports

More

Georgia Concrete

Groups (3)

Users (13)

Loadouts (3)

BANDs (10)

Gateways (0)

Contacts (0)

Settings

Filters

Name

Batch Actions

New Group

Name	# of Users	Last BAND Usage	Edit
Plant 1	7	2 minutes ago	
Plant 2	4	2 minutes ago	
Plant 3	0	Never	

Rows per page: 10 1-3 of 3



# Additional Material

- SlateSafety Featured on NBC Nightly News with Lester Holt
  - <https://slatesafety.com/slatesafety-technology-featured-in-nbc-nightly-news/>
- Case Study: Department of Energy Site Uses Physiological Monitoring to Keep Workers Safe from Heat Stress
  - <https://slatesafety.com/doe-site-uses-physiological-monitoring/>
- SlateSafety Partners with ACGIH® to Digitize Physiological Monitoring Guidelines
  - <https://slatesafety.com/slatesafety-and-acgih-announce-official-partnership/>
- What's included in a kit?
  - <https://slatesafety.com/kit-v2/>
  - <https://slatesafety.com/wp-content/uploads/2022/08/Kit-V2-web.pdf>





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