LIFEBOOSTER

LifeBooster Solutions: Powering Safety and Operations

Fleet Risk and Performance

Why Traditional Ergonomics Breaks Down in Fleet Operations

Fleet ergonomics is not a single job, a single task, or a single exposure.

Drivers operate solo, across dense and variable routes, delivering different materials into fundamentally different environments - restaurants, offices, industrial sites - often multiple times per hour.

Risk accumulates not just by task, but by **sequence, timing, route density, vehicle design, and individual worker characteristics.**

Traditional ergonomics approaches - averages, snapshots, and isolated task assessments - were never designed to handle this level of variability. As a result:

- High-risk scenarios are often averaged away
- Solutions over- or under-serve portions of the workforce
- Large-scale fleet retrofits become expensive bets rather than informed investments.

LifeBooster exists to solve this exact problem.

LifeBooster: A Decision Engine for Real-World Fleet Ergonomics

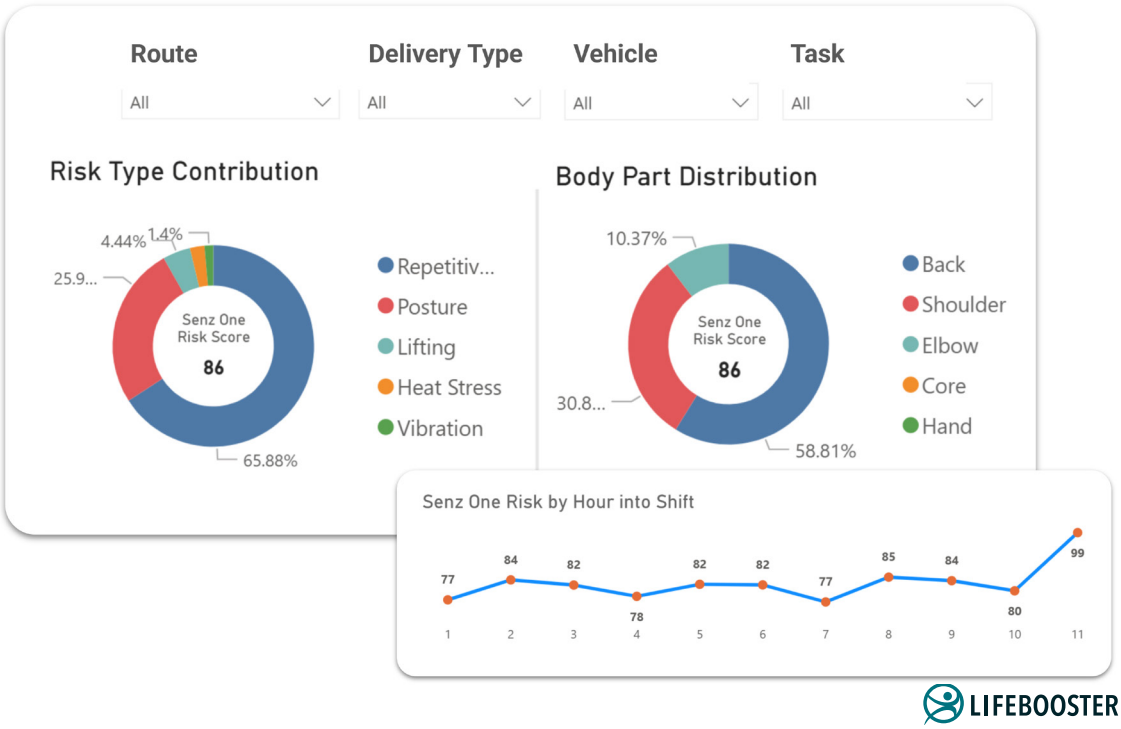
LifeBooster is an ergonomics decision engine that combines:

- **Industry-standard risk models** (MSD, Hand-Arm Vibration, Heat Stress)
- **Objective, task-level field data**
- **Operational context and metadata**

The result is not just risk identification, but **risk intelligence that informs decisions** across Engineering, Fleet, Operations, Scheduling, and Training.

LifeBooster answers questions traditional methods cannot:

- Which routes **actually drive cumulative risk** vs. not just which tasks look risky?
- Which solutions **reduce risk broadly** vs. only for certain workers or scenarios?
- Where will a retrofit investment **meaningfully reduce risk** and equally importantly, **where won't it?**



Representative Sampling: Designed for Variability, Not Averages

Effective fleet solutions require understanding variability - not smoothing it out.
LifeBooster programs are intentionally designed to capture the **real complexity of fleet work**, including:

Worker Variability
Stature, reach, strength, gender
Tenure and experience
Individual exposure accumulation over time

Fleet & Route Complexity
Vehicle types, age, and configuration
Route density (few vs. many stops)
Route constraints and delivery sequencing

Work & Environment Context
Delivery types (e.g., mats, garments)
Building types (small restaurants vs. large offices)
Environmental factors contributing to heat and vibration exposure

In comparable delivery environments, this approach has prevented multi-million-dollar misinvestments by revealing where proposed solutions did not reduce risk across the full workforce.

Rather than asking "What is the average risk?"
LifeBooster asks:
"Which combinations of worker, route, task, and equipment create the highest - and most addressable - risk?"
This approach enables recommendations that work in practice, not just on paper.
What works for one scenario does not work for all scenarios.
LifeBooster is designed to make those differences visible - and actionable.

LifeBooster fleet risk data produces **decision-ready outputs**, including:

Risk Intelligence
- MSD, Hand-Arm Vibration, and Heat Stress risk by: task, route, delivery type, vehicle type, time of day (risk by hour)
- Identification of cumulative exposure drivers across routes and shifts
- Visibility into how risk differs by worker characteristics and experience

Quantified Impact
- Measurable risk reduction opportunities by solution
- Validation of expected risk reduction post-implementation
- Ability to link risk reduction to downstream injury and lost-time impact over time

Comparative Insights
- Which interventions reduce risk broadly vs. selectively
- Where proposed solutions may unintentionally benefit only subsets of workers
- Where operational changes outperform engineering changes - or vice versa

Expected Value for Fleet Operations

For large fleets, precision matters. LifeBooster enables Fleet and EHS leaders to:

- Avoid over-engineering vehicle retrofits that deliver limited or uneven benefit
- Prioritize investments with measurable, validated risk reduction
- Support defensible decisions for capital spend, design changes, and tooling
- Align ergonomics strategy with real-world operations

Beyond the Baseline: Informing Smarter Decisions

The baseline fleet data capture is designed as a foundation, not a one-off study. Phase 2 opportunities commonly include:

- Expansion across additional locations
- Application to other job types (e.g., warehouse operations)
- Before/after validation of implemented solutions
- Longitudinal tracking of risk and injury trends

The same risk intelligence generated during the baseline can inform:

- Fleet design and retrofit strategy
- Equipment and tool selection
- Training optimization by worker characteristics
- Route assignment strategies that balance productivity with cumulative MSD, vibration, and heat risk
- New-hire ramp strategies using lower-risk route profiles

Why LifeBooster

LifeBooster does not replace ergonomics expertise; it extends it into the real world, where variability, scale, and cost matter most.

For organizations with mature ergonomics programs, LifeBooster provides what has historically been missing: the ability to measure, compare, and validate ergonomic decisions at fleet scale.

Next Steps

Contact Us and schedule a discovery session designed to identify how LifeBooster can drive better safety decisions for your fleet operations.

Our dedicated team will walk you through our technology how we can best baseline your operations and suggest representative sampling strategies that best fit your operational workflows.

Ready to transform your fleet operations? **Reach out today.**