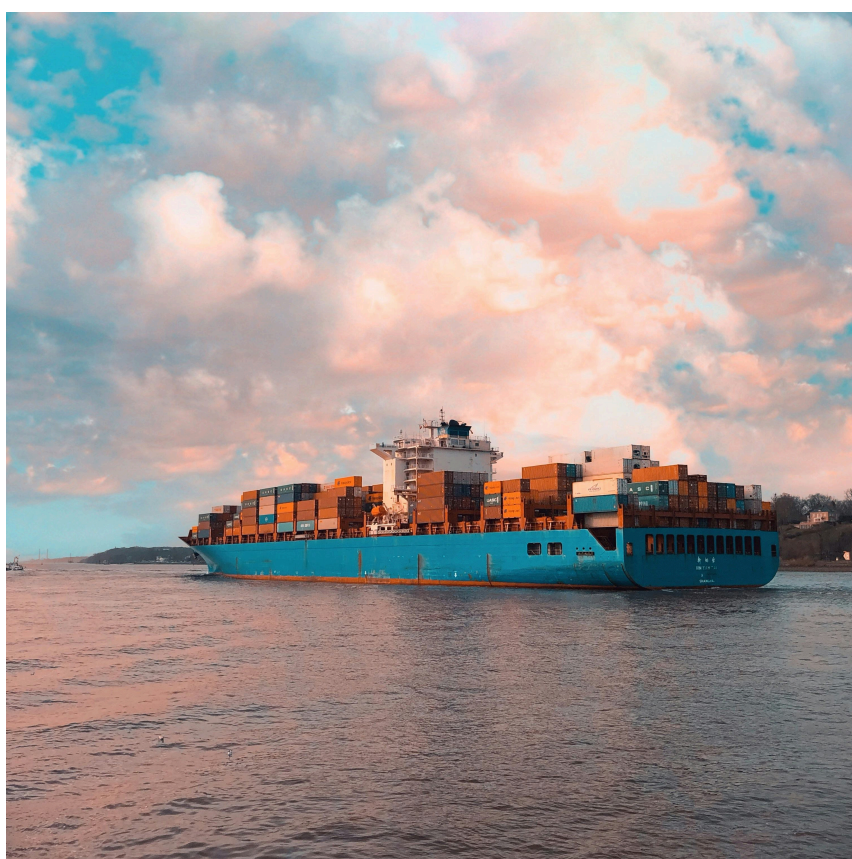


AI-Driven Behavioral Risk Management

Identify Risks. Prevent Mistakes. Protect Your Crew.

The Hidden Risk: Human Error & Situational Distress



Human error is the #1 cause of maritime safety incidents, responsible for 80% of accidents overall. Yet, the early warning signs—fatigue, cognitive overload, and operational stress—often go unnoticed until a costly mistake is made.

Despite efforts to improve safety, most risk management systems still rely on outdated methods:

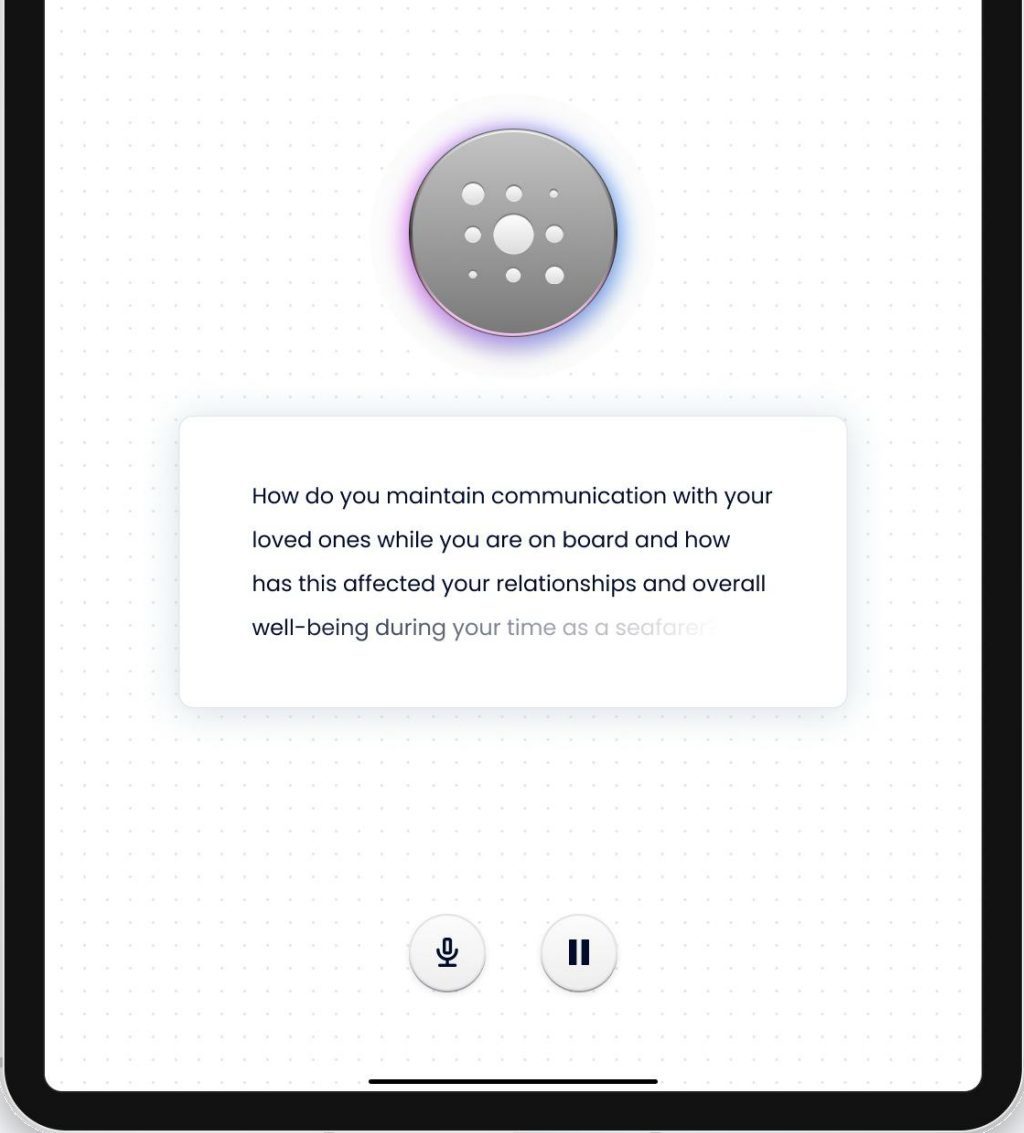
- ❌ **Static One-Time Assessments**
A single snapshot in time fails to track evolving fatigue, stress, and cognitive overload.
- ❌ **Biased, Self-Reported Data**
Fear of judgment, job security concerns, and survey fatigue can lead to unreliable responses.
- ❌ **Incomplete Risk Analysis**
Prioritizing clinical conditions like depression and anxiety overlooks situational stressors that directly impact decision making.

Many companies don't have reliable, timely insights into fatigue, cognitive overload, and mental stress, which are the behavioral risk factors that pose the highest risk.

What if you could detect these behavioral risks before they escalate?

Introducing Signal Fusion

An AI-powered risk management solution that provides continuous, voice-based behavioral insights to give you reliable visibility into operational behavior risks.



Identify fatigue and cognitive strain

Respond before they impact judgment or performance



Ensure your regulatory compliance

Stay on top of IMO, STCW, and safety standards



Gain trusted, data-driven insights

Instead of relying on self-reported assessments



Move from reactive to proactive

Always stay ahead with your risk management



Most safety incidents aren't a result of reckless behavior. They happen when a well-trained crew member, under stress or fatigue, makes a small miscalculation that escalates into a big problem.

A captain might pass a screening but still experience cognitive overload under pressure. A fatigued deck officer might not report feeling exhausted—until it leads to a costly mistake.

Traditional assessments won't catch the early warning signs. Signal Fusion does. Instead of waiting for an accident, we help organizations detect behavioral risk before it leads to human errors.

How it works

1

AI-Driven Crew Assessments

Crew members complete short, voice-based assessments designed to be engaging, unbiased, and context-aware, unlike traditional self-reported surveys.

2

Intelligent Risk Analysis

Our AI models analyze vocal biomarkers, linguistic patterns, and behavioral signals, using validated science to flag both behavioral and situational distress indicators.

3

Actionable Safety Insights

Signal Fusion delivers detailed risk reports with practical recommendations, integrating seamlessly into your existing safety programs and training.

Take action today

Turn safety from a compliance task into a real advantage.

 **signal fusion**

signalfusion.ai • info@signalfusion.ai