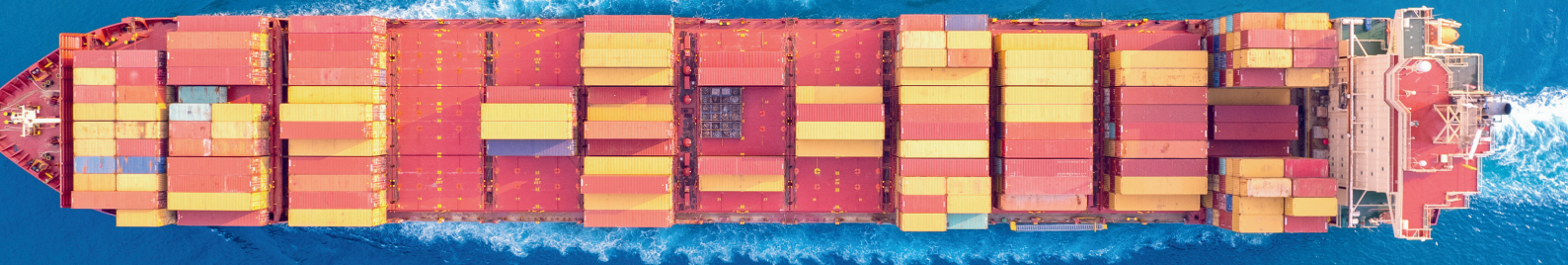


PSYCHOSOCIAL RISK ASSESSMENT FOR CREW



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INNOVATIVE MARITIME
EMOTIONAL INTELLIGENCE CENTER

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PSYCHOSOCIAL RISK ASSESSMENT FOR CREW

Empowering Well-being at Sea: The Psychosocial Risk Assessment Tool"

The Psychosocial Risk Assessment Inventory involves a series of tools that assesses primary stressors in the work environment onboard a vessel and personal wellbeing. The scope of the assessment is to identify and analyze workplace risk factors that could potentially harm the psychological health and safety of the seafarers, if not properly managed.

The psychosocial risk assessment evaluates workplace stressors that includes: Workload Balance, Job Control, Management Support, Peer Support, Work Relationships, Job Role, Workplace Changes, Organizational Support, Job Engagement, Job Development, Financial Security, Bullying & Harassment, Civility & Respect, Physical Environment Satisfaction, Protective Equipment Satisfaction, Organizational Culture Satisfaction, Burnout and Personal Wellbeing, Conflict Resolution, Leadership and Support, Training Adequacy and Skills Development, Crisis Preparedness and Emergency Response, Technology Adaptation and Usability, Safety Culture, Incident Awareness and Prevention, Near Miss Reporting and Analysis, Compliance with Safety Protocols, Hazard Identification and Resolution, Retention, Factors - Contract Satisfaction, Social Connectivity.



**HUMAN ERROR
PREDICTIVE
INDEX**



**VALIDATED
PSYCHOMETRICS
FOR CREW**



**VESSEL
PSYCHOSOCIAL
RISKS**



DETECT RISKS



**ASSESS &
INTERPRET DATA**



**BEST
RECOMMENDED
PRACTICES**

PREDICTIVE INDEX OF HUMAN ERROR



HOW IT WORKS

The Index is calculated by analyzing multiple psychosocial and environmental variables that directly influence decision-making, situational awareness, and overall crew performance. The tool gathers data from crew assessments, workload analysis, leadership effectiveness, safety culture, and fatigue levels to generate a risk probability score.

This score serves as a proactive warning system, allowing shipping companies to address potential risks before they escalate into accidents, injuries, or near misses.



THE 7 PILLARS OF HUMAN ERROR PREDICTION

The Predictive Index of Human Error is built upon seven interconnected pillars that significantly contribute to the probability of errors onboard:

- Psychological Safety Onboard
- Leadership and Accountability
- Workload and Fatigue Management
- Training, Skills, and Preparedness
- Safety Culture and Risk Awareness
- Engagement and Well-being
- Environment & Safety Onboard



WHY IT MATTERS

Unlike traditional risk assessments that rely on past incident data, the Predictive Index of Human Error takes a forward-looking approach by integrating real-time psychosocial insights with statistical modeling. This allows maritime operators to:

- Identify high-risk individuals, teams, or vessels before incidents occur.
- Tailor interventions such as training, workload adjustments, or leadership improvements based on predictive analytics.
- Enhance compliance with international safety regulations, including the ISM Code and SMS protocols.
- Reduce financial losses associated with accidents, delays, and insurance claims by proactively mitigating human error risks.

Take the First Step Toward a Healthier Crew

THE TOOL

Your Comprehensive Solution for Maritime Well-Being

STEP BY STEP

01

REGISTER CREW

- Companies access the online dashboard to register their vessels and crew members on the platform.
- Seafarers receive an email or Viber notification with instructions to complete the 15-minute psychometric assessment in their preferred language, **anonymously**.

02

ASSESSMENT AND EXPERT REVIEW

- Once over 80% of the crew from each vessel has completed the assessment, the data is evaluated by clinical and organizational psychologists with extensive experience in the maritime industry.
- The psychologists analyze the results, identifying key psychosocial risks and trends specific to each vessel.

03

REPORTING AND RECOMMENDATIONS

- A comprehensive report is delivered to the company, including:
- Insights into crew well-being and risk factors.
- Tailored recommendations and actionable strategies to address identified risks.



Well-being is Safety:

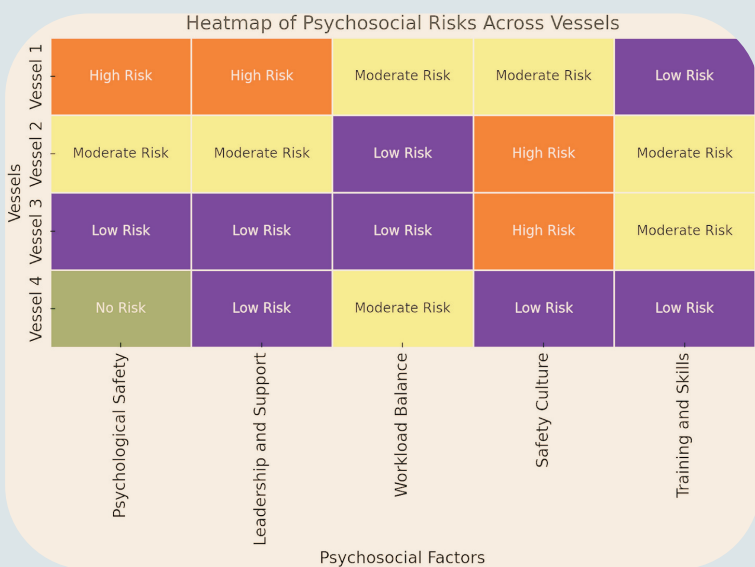
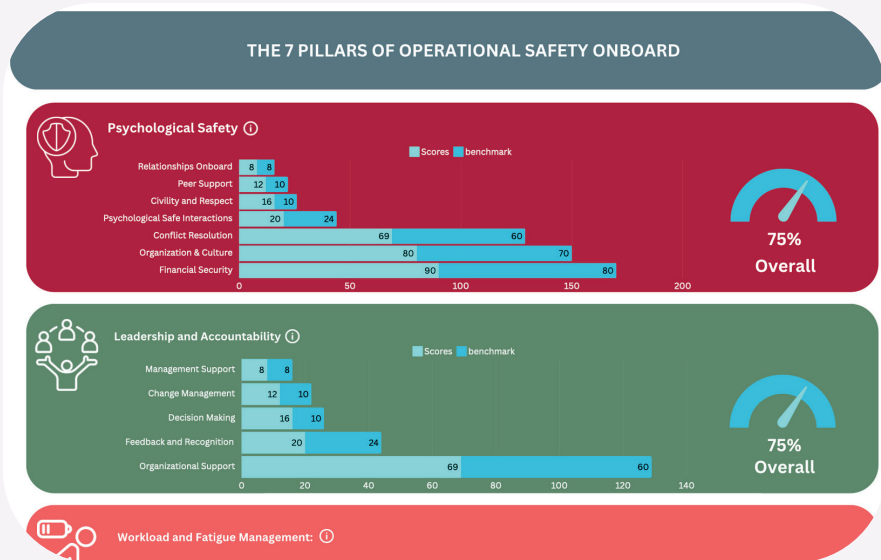
A crew's mental and social health directly impacts their performance, decision-making, and safety.

Compliance Made Easy: Stay ahead of evolving regulations and industry standards, including ISM Code and SIRE 2.0.

FEATURES

The 7 Pillars of Human Error Prediction

The Index of Human Error is determined by analyzing seven critical psychosocial and operational factors that influence decision-making, safety compliance, and overall performance onboard. Each pillar represents an essential area that contributes to the likelihood of errors and incidents, allowing for proactive risk management and targeted interventions.

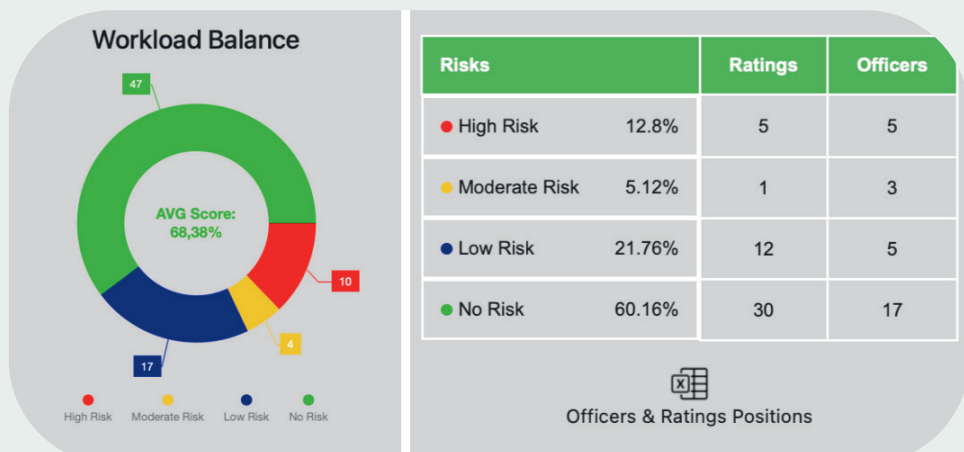


Risks Across Vessels

The heat map provides a visual overview of psychosocial risks across the fleet, highlighting specific areas of concern for each vessel using a color-coded scale: red for high risk, yellow for moderate risk, blue for low risk, and green for no risk. It enables quick identification of vessels with critical issues, such as workload imbalance or inadequate leadership, and systemic challenges like poor psychological safety or incident awareness.

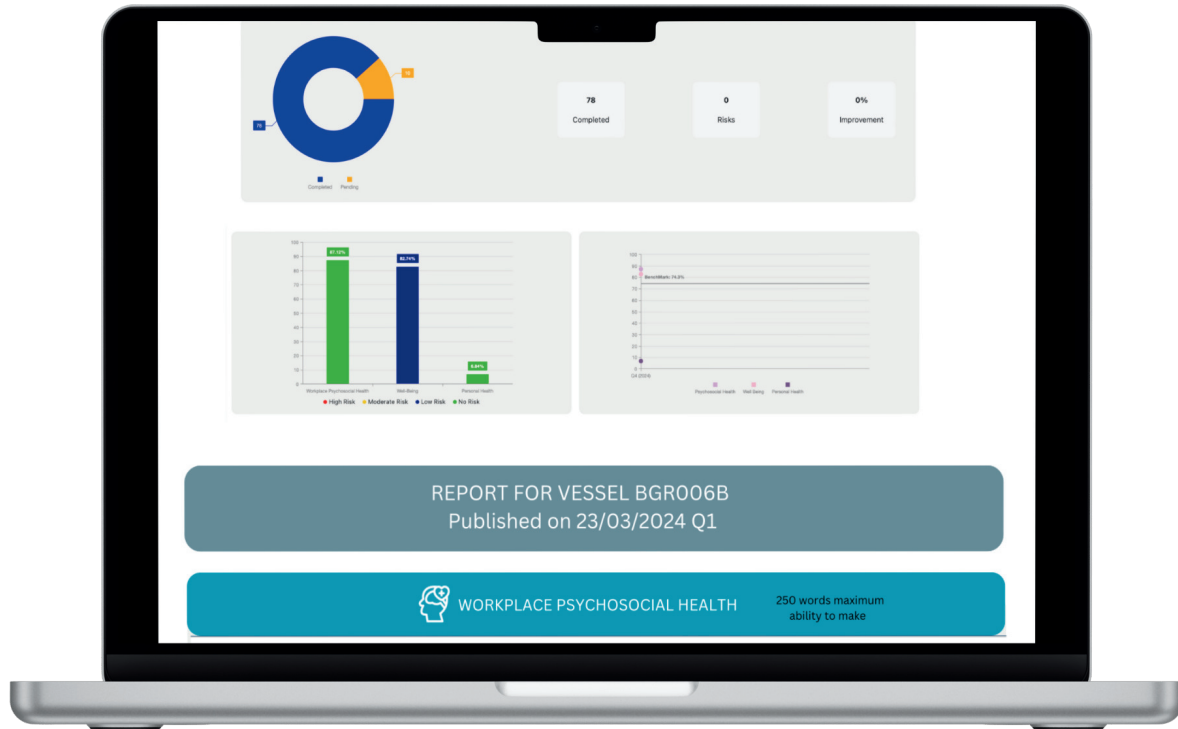
Ratings VS Officers

The graph comparing ratings and officers across various risk levels provides a clear and detailed snapshot of how different crew segments perceive and experience workplace dynamics, from workload balance to psychosocial support, physical environment, and overall well-being.



REPORTING

The assessment is conducted across multiple vessels, thus the generated reports describe psychosocial stressors that influence crew morale, decision-making, communication, and operational safety. The evaluation covers four primary domains as seen below:



Workplace Psychosocial Health – Analyzing work-related stressors such as workload balance, job control, peer and management support, workplace relationships, and organizational culture.



Overall Well-Being – Measuring emotional resilience, energy levels, optimism, and motivation, ensuring that seafarers remain engaged and mentally strong.



Personal Health – Assessing mood stability, anxiety risk factors, financial security concerns, and psychological safety, identifying potential mental health vulnerabilities before they escalate.



Strengths - Areas of Concern - The assessment includes general company-wide findings and vessel-specific analyses, ensuring that both broad organizational trends and localized vessel challenges are addressed effectively.



BENEFITS

This tool empowers maritime companies by providing:

- ✓ Accurate Crew Risk Profiling – Identifying early warning signs of burnout, disengagement, and mental health risks.
- ✓ Data-Driven Decision-Making – Helping companies implement effective interventions tailored to crew-specific challenges.
- ✓ Regulatory Alignment – Supporting compliance with ILO, IMO, and MLC well-being standards, ensuring a safe and healthy work environment.
- ✓ Improved Safety & Performance – Enhancing team cohesion, leadership effectiveness, and decision-making clarity for greater operational success.

World's most innovative psychometrics platform

By implementing the Predictive Index of Human Error, shipping companies can transform their approach to risk management, shifting from reactive responses to data-driven prevention, ultimately ensuring safer seas, healthier crews, and more resilient maritime operations.

Suitability Pivot Data								
Factor	Job Position	Nationality	Total	Family Status	PsychologicalDistress			
Review Panel					Acceptable	Poor	Marginal	Acceptable
%	Seafarers	%	Seafarers	%	Seafarers	%	Seafarers	
30%	3	17%	4	9%	2	9%		
100%	1							
		67%	2			33%		



CONTACT US

Take the next step in enhancing maritime safety and preventing human error before it happens. Partner with us to implement cutting-edge predictive analytics and ensure a safer, more resilient crew.

Website: www.imeq-center.com

Email: hr@imeq-center.com

Tel: +302109658285



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