

# RioTinto

International Safety@Sea Conference  
Session 4 (Enhancing Maritime Safety  
through Technology)

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# Rio Tinto Marine activities at a glance

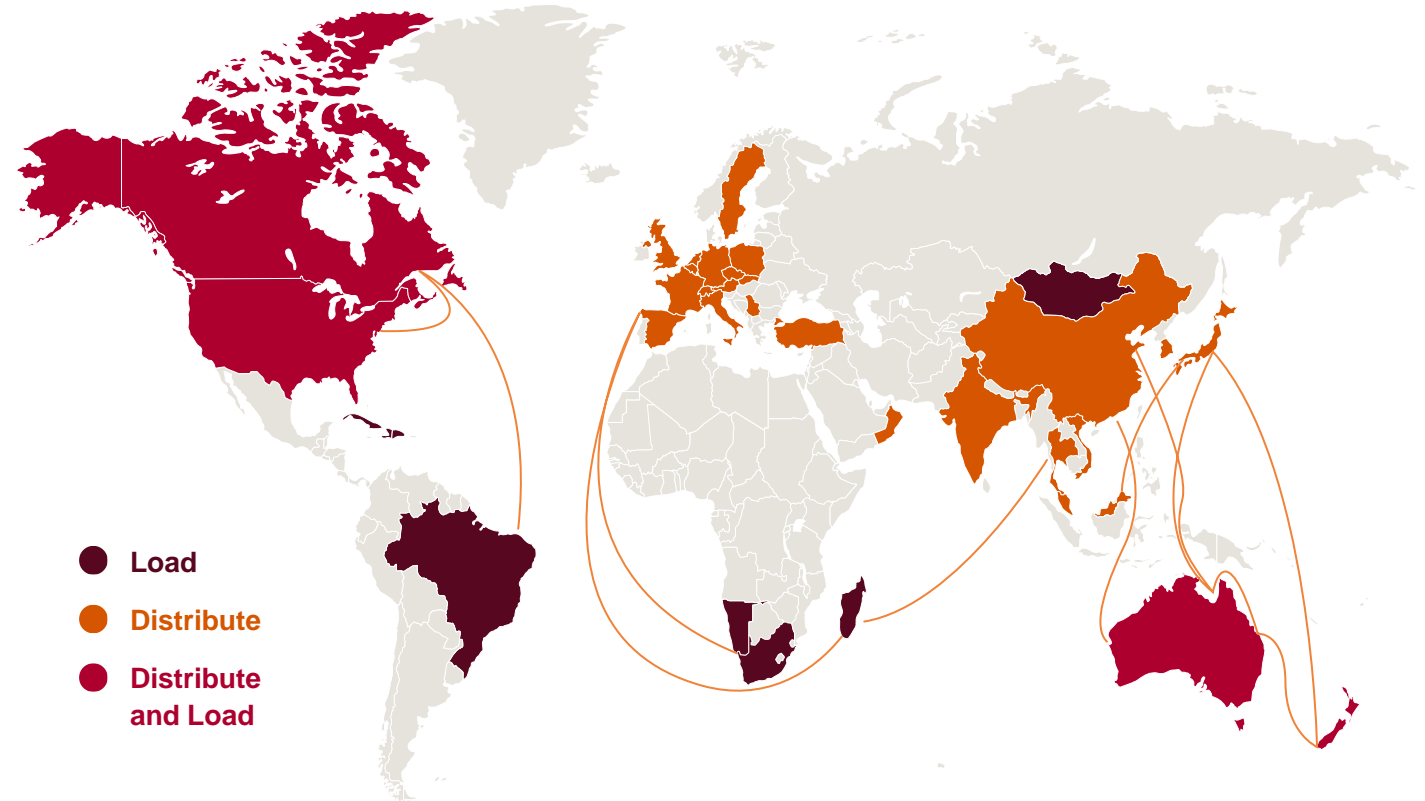
By volume, Rio Tinto is the world's largest dry bulk shipper

## The Vision

- As a leading Charterer, we strive to have a fatality and injury free portfolio and an uplifted baseline for crew welfare.

## The Action

- Rio Tinto has been on a journey to strengthen our vetting, assurance, and incident management processes
- Rio Tinto has developed a series of recommendations in collaboration with key partners to strengthen ties in safety & crew welfare in 2022 and onwards.
- Our safety programs anchors together these high priority initiatives on our journey to realising our vision



**17**  
vessels  
owned by  
Rio Tinto

**230**  
contracted  
vessels at any  
given time

**2,700**  
voyages  
per annum

Over  
**300**<sub>MT</sub>  
per annum

# Fatalities continue to occur on Rio Tinto's non-managed chartered fleet and the broader industry, while the pandemic accelerated the need for crew welfare and wellbeing

Rio Tinto (non-managed) chartered fleet fatalities

**2019: 2**  
**2020: 1**  
**2021: 3**  
**2022: 1**

**YTD 2023: 0**

Number of reported fatalities in shipping globally

**2014 - 2021:**  
**563\***

Decreasing trend from 114 fatalities in 2014 to 36 fatalities in 2021 with seafarers representing 89%.

Total no. of reported shipping industry incidents including total losses

**2022: 3,032<sup>^</sup>**

Including 38 total loss in 2022

Stranded seafarers during height of pandemic in 2000

**400,000**

Crew welfare and retention rate is a risk factor considered in underwriting<sup>^</sup>

Mental health and wellbeing should be part of safety culture

**28%**

of seafarers reporting mild to severe levels of depression, with higher levels among younger seafarers aged between 18 and 30<sup>\*\*</sup>

**Source:**

<sup>^</sup>Allianz Global, Safety and Shipping Review 2023

<sup>\*</sup>European Maritime Safety Agency, Annual Overview of Marine Casualties and Incidents 2022

<sup>\*\*</sup> Marine Benefits, Re:fresh by Marine Benefits Wellbeing 2022

# Rio Tinto's Marine safety & crew welfare initiatives



**RT Designated Owners & Operators Standard**

- Commitment to lift crew safety & welfare standards:
- Fatality Prevention
  - DryBMS
  - SSI: Crew Welfare

**RT Owners & Operators Safety Engagement**

- Quarterly RT Safety Engagement Workshops:
- Incident Sharing,
  - Best practices
  - Learnings

**RT Vetting & Assurance Activities**

- Increase RT number of safety surveys / periodic inspections:
- 300 Voyage Charter Inspections
  - 200 TC Periodic Inspections
  - 100 – 200 Master Coaches Visits (to commence 2024)

**RT - Safety Assessment by Intelligent Learnings (SAIL)**

- High-resolution risk-profiling enable prioritization of inspection resources:
- Detailed vessel data to support risk mitigation
  - Operator Engagement

**RT - Online RT port & terminal training**

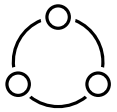
- Reducing incidents and uplifting operational standards
- Tailored training material for all RT owned ports & terminals
  - Provided to all owners & operators as self-directed learning packages

# Designated Owners & Operators Standard

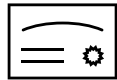
## DOOS Delivers



Common standards across our fleet to prevent fatalities, injuries and improve crew welfare



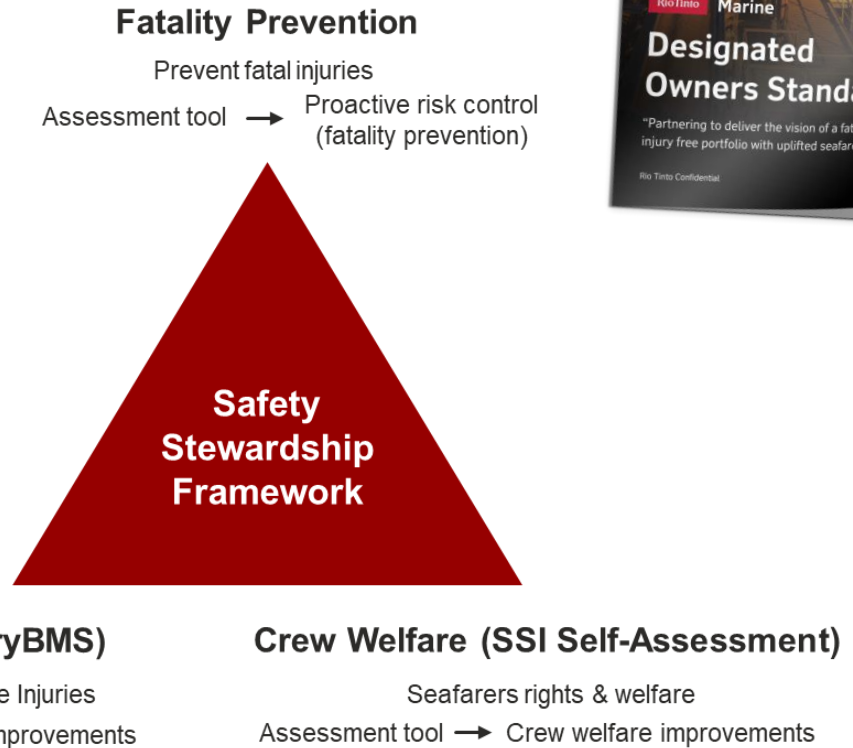
Provide a structured platform for Rio Tinto and partners to work together to improve safety and welfare outcomes



Differentiate like-minded owners and operators committed to positively shape the industry through Rio Tinto's shared vision

## Why Join DOOS

Rio Tinto seeks to partner with like-minded vessel owners, operators, and technical managers that share the same vision of improving seafarer safety and welfare outcomes.



# SAIL Digital Tool

Safety Assessment by Intelligent Learning

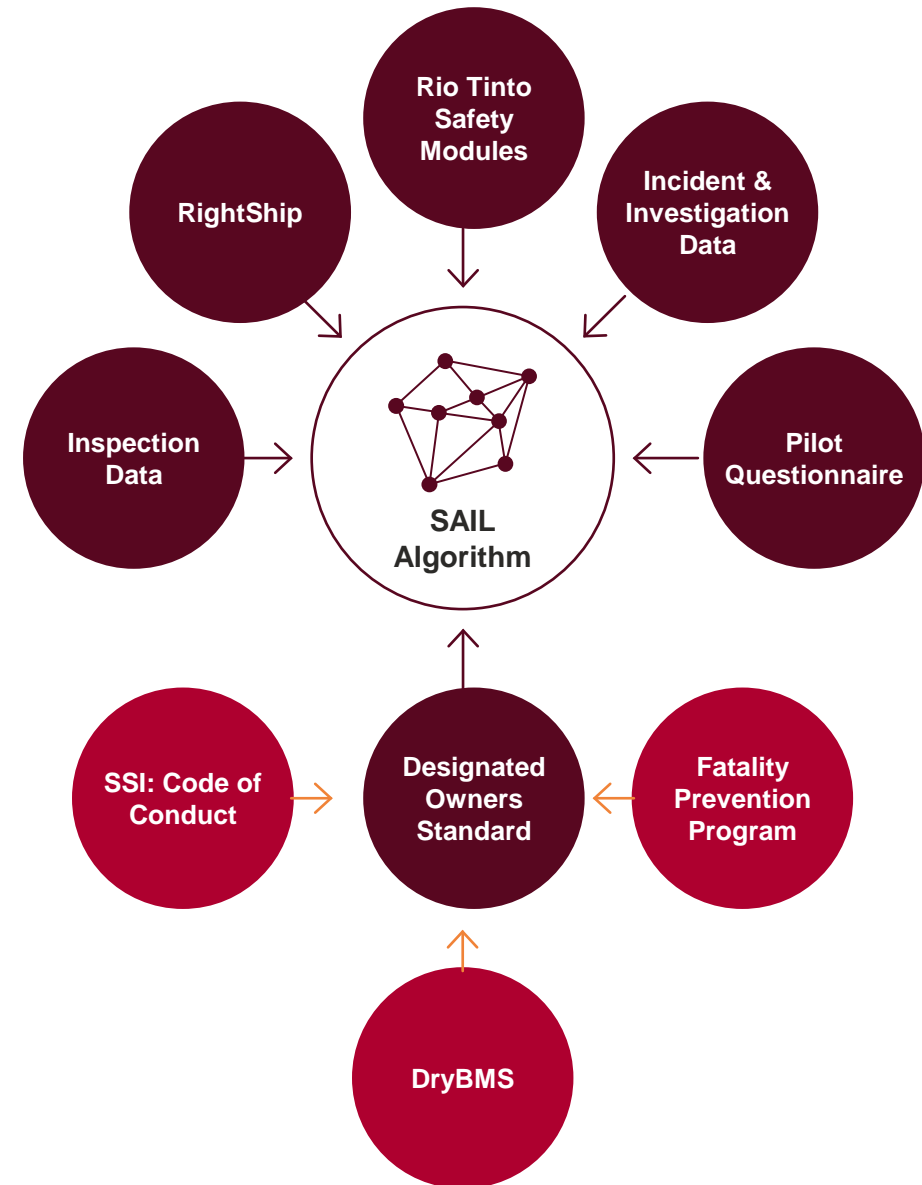


## Rio Tinto Objective:

- Digitalization of fleet risk profiling through compiling and storage of data and application of intelligent learning tools.
- Reduce manual processes through automation of steps for risk assessments
- Enhance risk assessment accuracy and support data driven decision making and reduce risk exposure

## Key features of Project SAIL:

- Provides a high-resolution risk-profiling of vessels to enable prioritization of inspection resources
- On demand detailed vessel historical and analysis data to assess vessels
- Reliable data to support collaboration with Owners to enhance safety barriers and incident prevention



**RioTinto**