Human element in shipping – Are Seafarers indispensable?

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90%
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Investigation commences to improve safety

The scope of... 

Identifying

Who did it? Who didn’t do it?

☑ More E&T
☑ Better tech

Human Element

Human Error

Seafarers’ Error

Solutions
Root Causes

Design & Construction
- Ergonomics
- Human-centered design

Trade operation
- Decision making
- Responsibilities & Liabilities

Regulatory Sustainability
Seafarers’ error vs. Seafarers’ contribution

All humans in the maritime including 2.2 million certified and qualified seafarers in international commercial shipping (ITF, 2018) have been contributing to preventing maritime accidents.

Accidents and incidents rate for international merchant ships: less than 5% of all ships/yr
The number of ships: 52,183 (Statista, 2018)
Total accidents and incidents average 2,700/yr
(Allianz analysed Lloyd’s List Intelligence Casualty Statistics, 2018)

Severe marine accidents and casualties occurs at less than 3.8 – 4.8% possibilities due to human error.
Are seafarers indispensable?

- Regulations & Policies
- Technological developments
- Geopolitical Circumstances
- Market Demand & Supply
Seafarers are indispensable.
Thank you

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