



Closing the Safety Gap in an Era of Transformation

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DNV's White Paper on safety in an era of transformations

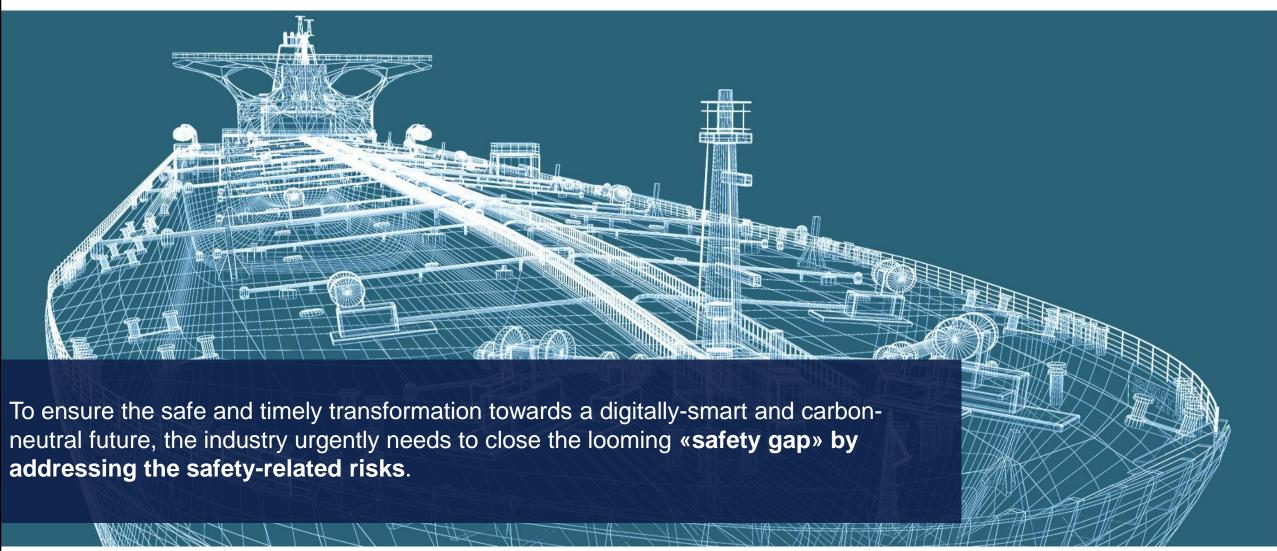
DNV: A trusted voice to safeguard the maritime industry as it is rapidly transforming to meet its ambitions for digitalization and decarbonization





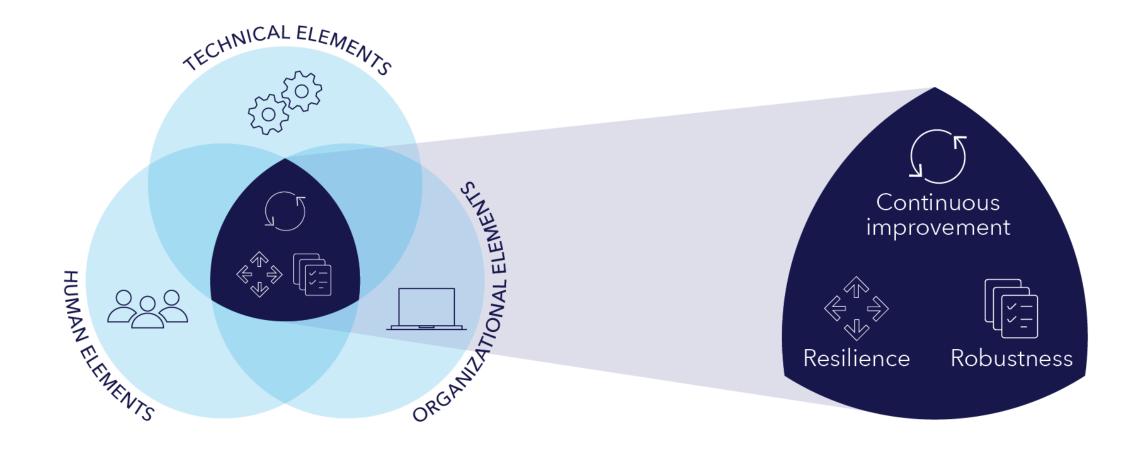


With all eyes focused on Digitalization and Decarbonization, the industry must continue to meet its commitment to safety





Safe maritime systems depend on the interaction between the H-O-T elements





Safety hurdles and recommendations related to greater system complexity





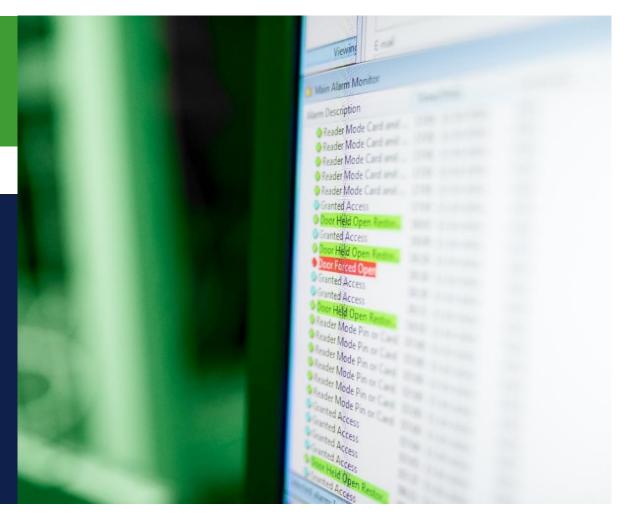
System integration is essential for improving the user-centred design of alert management systems

Problem identified:

The alert management system is **least effective** when it is needed the most

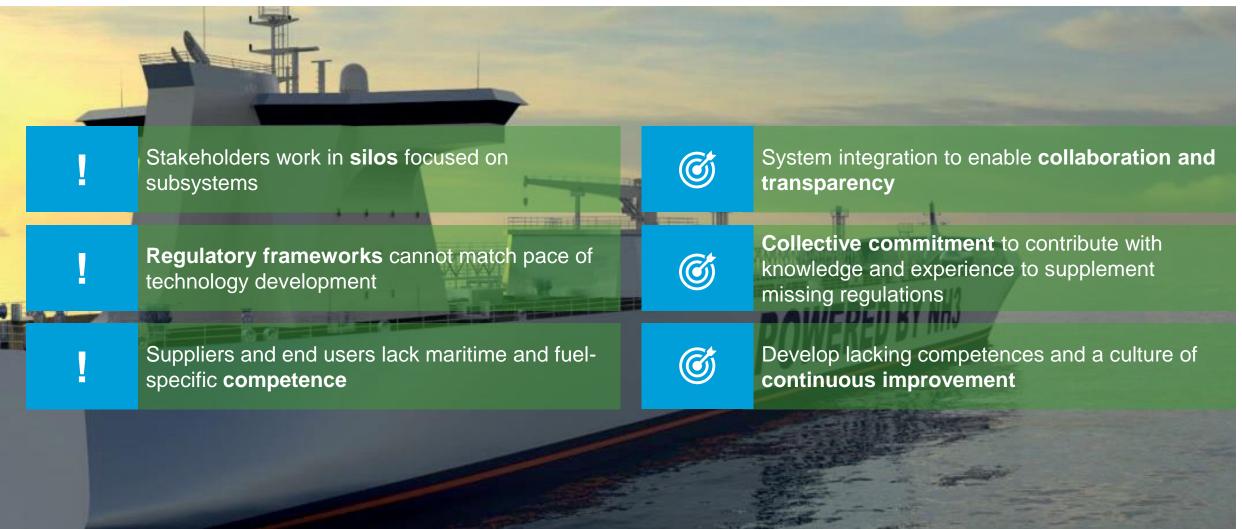
Recommendations from DNV:

- Appoint a system integrator as the «spider in the web», overseeing the design of alert management systems
- 2. Reduce the number of alerts
- 3. Improve the presentation of alerts





Safety hurdles and recommendations related to alternative fuels and operations





Collaboration and continuous improvement is essential for the safe introduction of new carbon-neutral fuels

DNV has been at the forefront of initiatives towards adopting **LNG** as fuel.

We continue to lead the way in generating knowledge to supplement regulatory gaps for other alternative fuels.

DNV in **MarHySafe** to:

- 1. Remove regulatory and approval barriers
- Develop the knowledge required for safe and reliable onboard hydrogen storage, bunkering and operations with hydrogen in shipping.





To reap the benefits of transformation, the industry needs to collaborate to support people's performance





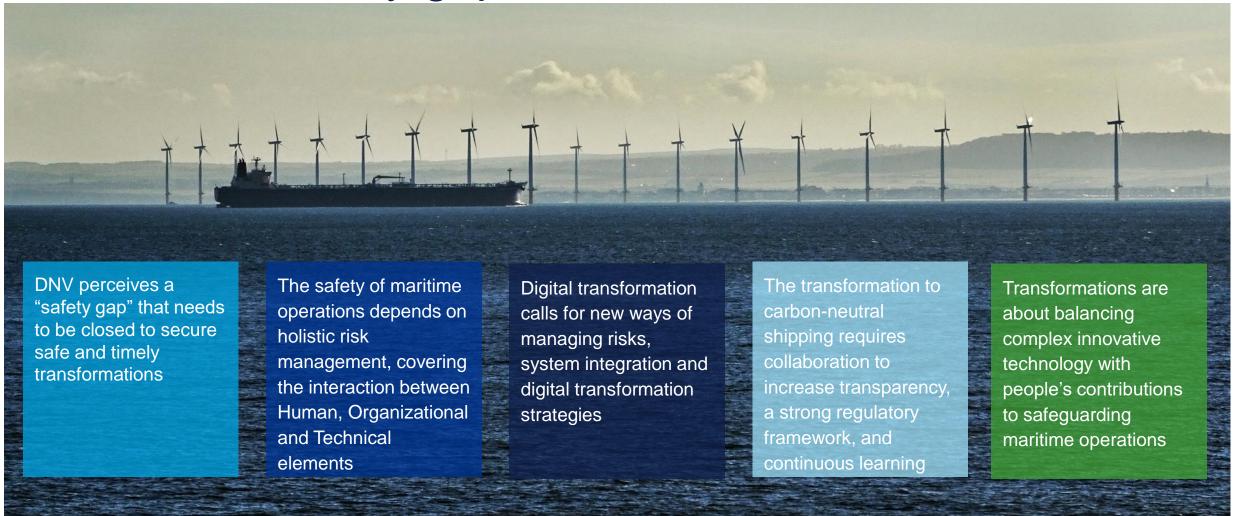


Successful transformations depend on the creativity, problem-solving ability and resourcefulness of people.

Every maritime organization has a part to play in facilitating the safe and efficient performance of its people.



The industry have both the responsibility and the ability to close the safety gap





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