Focus on Human Factors

A shipowners perspective

Presentation to Innovasjonskonferansen e-nav.no 12th September 2018 Oslo, Norway

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Why is Human Factors needed in the Industry?





ZERO









Eastern Air Lines Flight 401 was a Lockheed L-1011-1 Tristar jet that crashed into the Florida Everglades at 11:42 pm December 29, 1972, causing 101 fatalities.

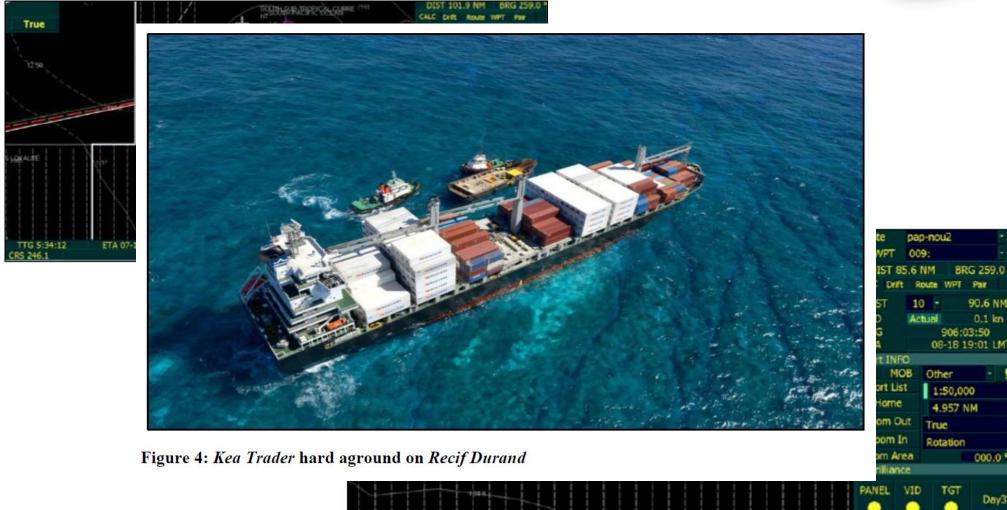
The crash occurred while the entire flight crew was preoccupied with a burnt-out landing gear indicator light.

They failed to notice that the autopilot had inadvertently been disconnected and, as a result, the aircraft gradually lost altitude and crashed.

Unintended consequences of design

7FRO





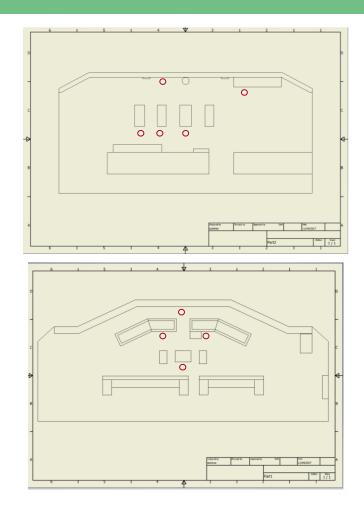
Alarm

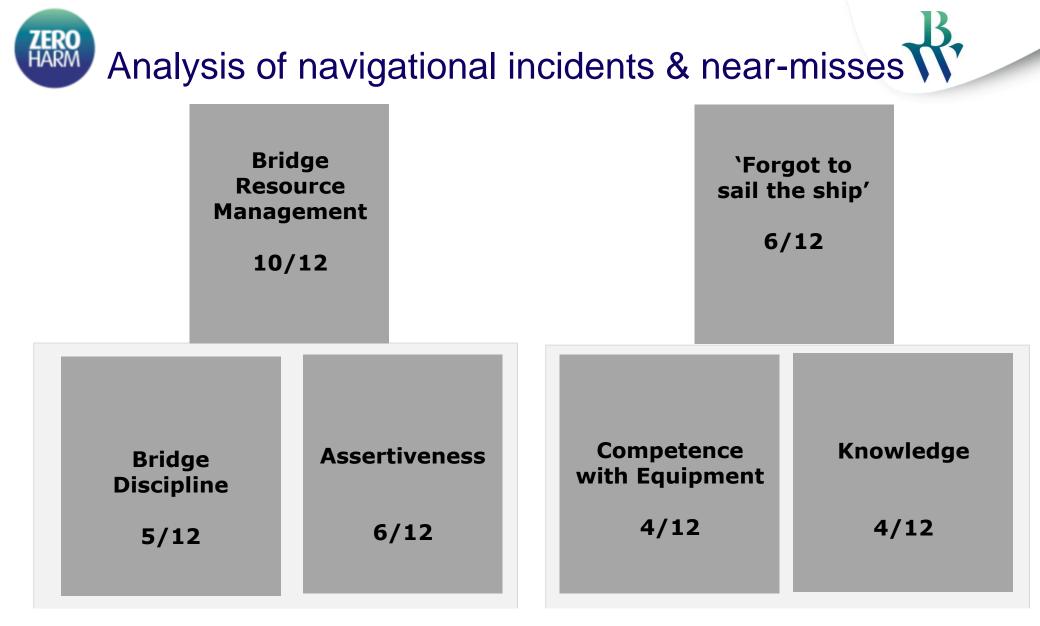
BRM & SOLAS v 15 and link analysis

"Requires owners, naval architects, manufacturers and administrations to ensure compliance with specified ergonomic principles"

"Requires owners and masters to ensure that bridge procedures are adopted which take ergonomic criteria into consideration"

- If the bridge layout is below par, and crew numbers at a minimum teamwork is very demanding and at times suboptimal.
- One size does not fit all.





Human Factors identified











Systemic flaws





BWs Focus on Human Factors



RO	Best on Water	R.
	ZERO HARM – BW Safety Culture	
Operational Resilience - Ability to bounce back in unexpected situations -		
Visible leadership	Learning from incidents	Zero Harm Behaviours
Leadership Development Life Saving Rules	Just Culture Zero Harm Library	Zero Harm Appraisal Zero Harm Profile Test
 Management commitment to Zero Harm Ship visits from senior management Welcome On Board Leadership & Competence building Sharing Best Practices/Safety Culture 	 Case studies / Reflective learning Root Cause Analysis (by TapRoot©) Training adapted to workplace High Severity – Low Frequency (HILO) Near Miss Reports Safety campaigns & initiatives 	 Behavioural Competencies Resilience / Reflective learning Disciplinary Process Crew Assessment Strategy Risk Management Work / Rest hour Management

COLLABORATE

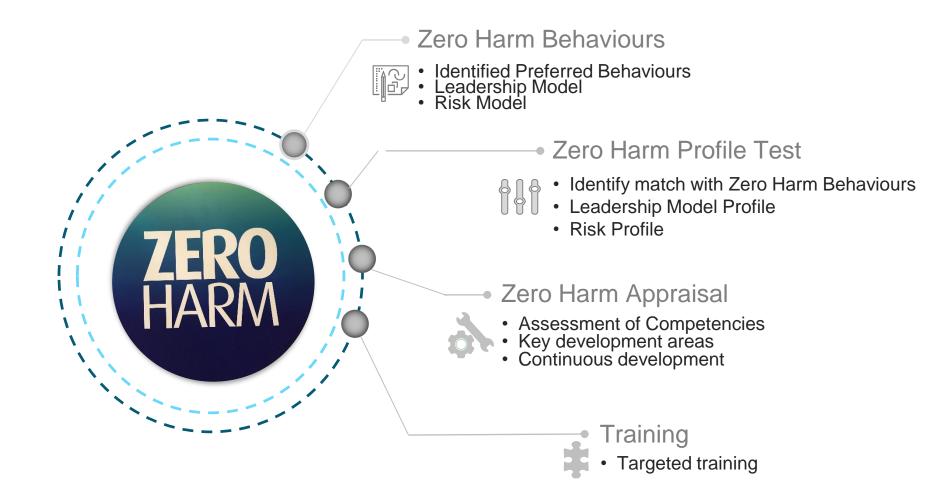
AMBITIOUS

RELIABLE

ENDURING

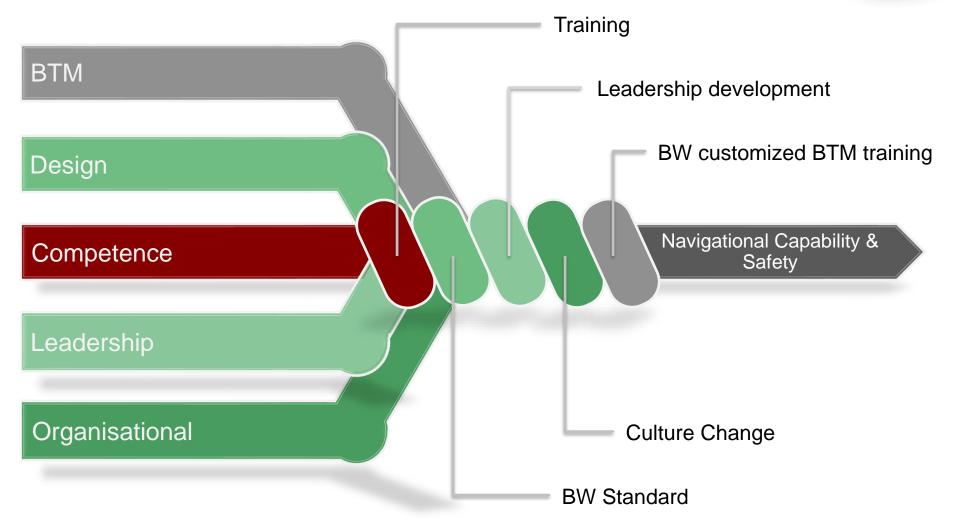
Embedding in key crew processes















Crewing strategy

Go from "BOS" to building teams

Operational landscape

Understand the operational context

Competency management

Ensure that the big muscle movements of

training, responsibility and work in harmony.



















We believe in Zero Harm



To People, Environment, Cargo and Property with a commitment to return safely to our families and friends





Best on Water