

From Protection to Performance

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HeliOffshore
Safety Through Collaboration

What is HeliOffshore?

- An organisation dedicated to Offshore Helicopter Safety
- Backed at CEO level
- Delivering a programme of safety improvements
- We judge our success based on results in the frontline



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Who is involved?

- Helicopter Operators
- Oil & Gas Companies
- Transport Clients
- Manufacturers
- Technology and Service Providers
- Allied Service/Supply Providers
- Training Providers
- Academic, Government and Research Organisations
- Passenger and Staff Groups



People are at the heart of the aviation system

- The single greatest factor both in accidents, and in the prevention of accidents is human performance
- So focus should be on supporting **total system performance** at all levels and minimising the impact of predictable human and machine failures



Key Questions

1. What does the human/machine partnership need to be good at to prevent accidents?
2. Have we got the right funding/support lined up?
3. Who needs to do what to improve performance in this area? (and by when?)
4. How will we measure or judge whether we are getting what we need, day to day, in the frontline?

Safe Operations

Safe Survival

Accident Events

Accident Prevention Goals

Accident Survival Goals

System Failure	Early Diagnosis of Potential Failures	Safety Equipment Operating	Enhanced Reliability	Airworthiness Management	Effective Maintenance/ Tool Control	Error Tolerant Designs	Supply Chain	Impact Survival
Aircraft Upset	Flightpath Management	Effective Use of Automation	Enhanced Situational Awareness					Floatation
Surface/ Obstacle Conflict	Enhance Space/ Reduce Obstacles	Detect/Avoid Obstacles	Night/IFR Flight Mitigations	RADALT Procedures/Use				Underwater Escape
Heliport/ Helideck	Vessel Pitch, Roll, Height Limits	Heliport Management	No of Air Craft on Heliport/Deck	Heliport/ Helideck Design				Sea Survival
Weather	Effective Flight Planning	Regular Reports/ Forecasts	Adverse Weather Policy/Use	Aircraft Design	Weather Radar			Land/General Survival
Collision in Air	Attitude Management	Air Traffic Control Oversight	Bird Strike Prevention	Airborne Collision Avoidance System	High Intensity Strobe Lights			Alerting
Ground Collision/ Handling	Weight and Balance	Passenger Briefing	Flight Handling	Dangerous Goods	Security Control			SAR/ Emergency Response
Fuel Exhaustion/ Contamination	(Hot) Refuelling Procedures	Fuel Checks	Flight Planning	Fuel Reserves	Fuel Testing/ Inspection			Post-Accident

Enablers	Safety Leadership/ Culture	Effective SMS	Info Sharing	Competency	Multi-crew Operations	Personnel Readiness	Modern/Proven Technology	Standards & Oversight
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Safety Performance Model



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Summary

- Global Collaboration
- Visible strategies
- Frontline Results

