

Safety: Do we have the right focus?

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Effective Safety

1. Right Risks/Priorities
2. Right Actions
3. Right Results

How do we get this done? People!

Effective Human Performance

- Inspired versus blamed
- Proactive rather than reactive
- Informed decisions
- Part of a team
- Feedback on progress

Right Risks/Priorities?

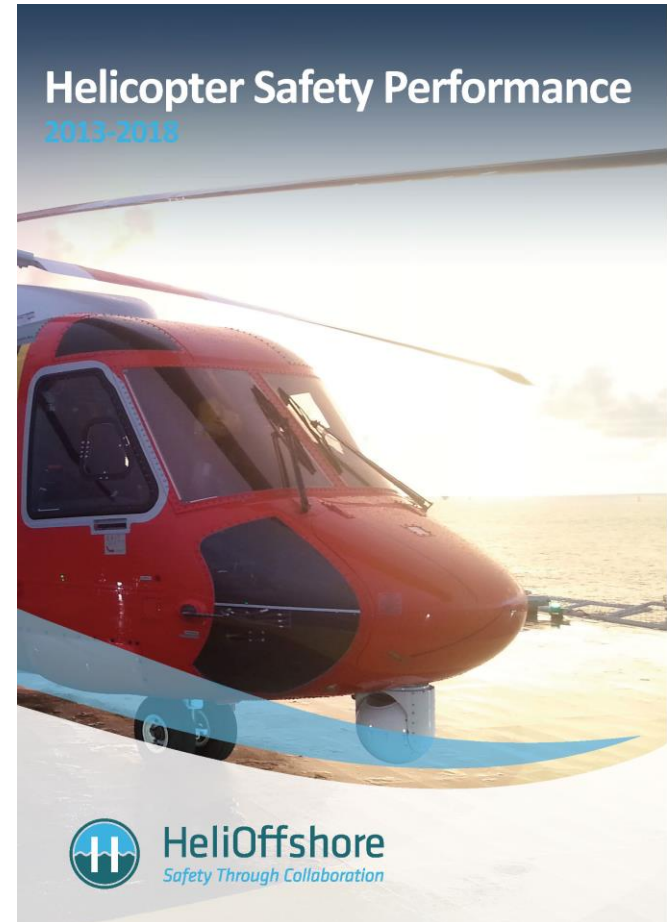
Are Key Stakeholders Enrolled?



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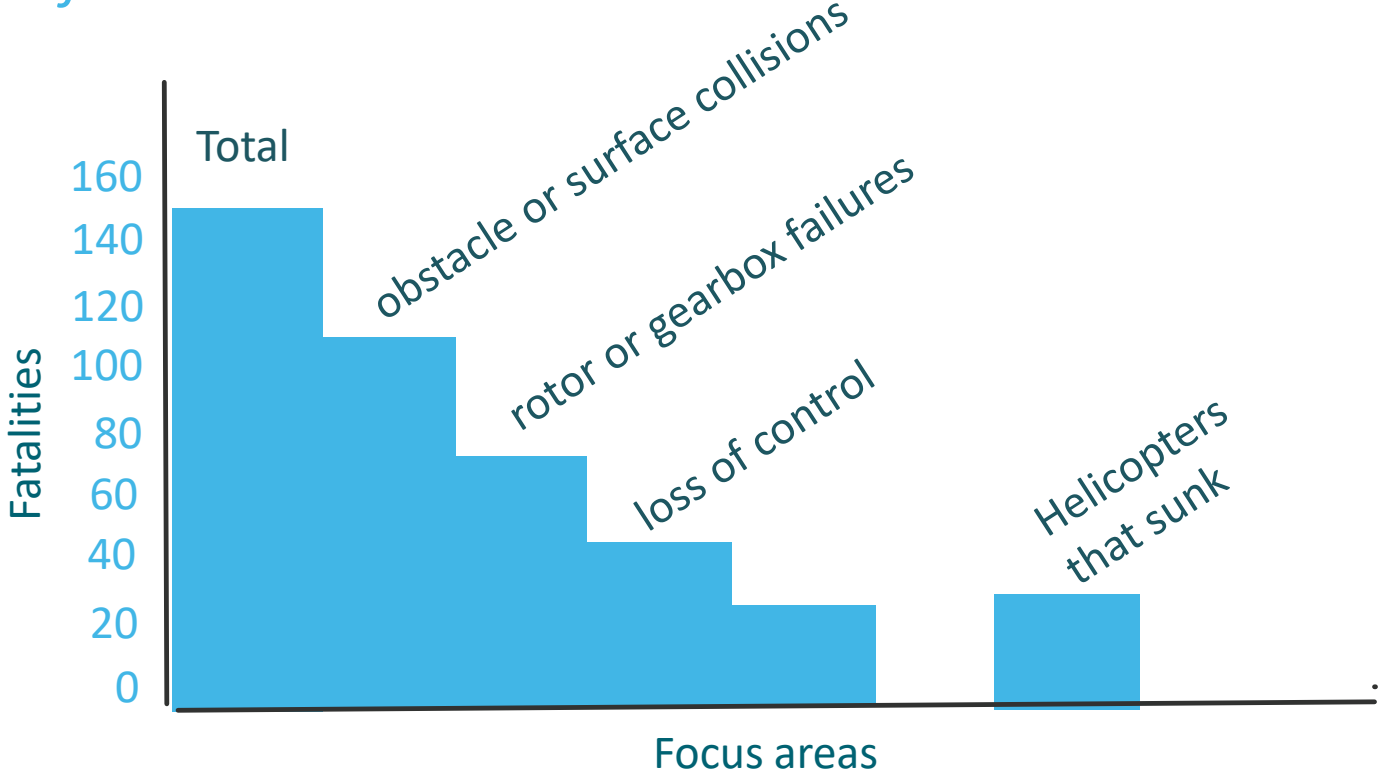
Industry report

- Draft released at conference
- Prompted useful feedback and more data
- Latest draft has been circulated
- Welcome more feedback
- Due to be released at the end of September



Staircase to zero fatalities (2013-2018)

Imagine if there were no ...



HeliOffshore Safety Performance Model

Accident Events

Accident Prevention Goals

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

Accident Survival Goals

Impact Survival
Floatation
Underwater Escape
Sea Survival
Land/General Survival
Alerting
SAR/Emergency Response
Post-Accident

Enablers

Safety Leadership/Culture

Effective SMS

Safety Intelligence

Competency

Multi-crew Operations

Personnel Readiness

Modern/Proven Technology

Standards & Oversight



Right Actions?

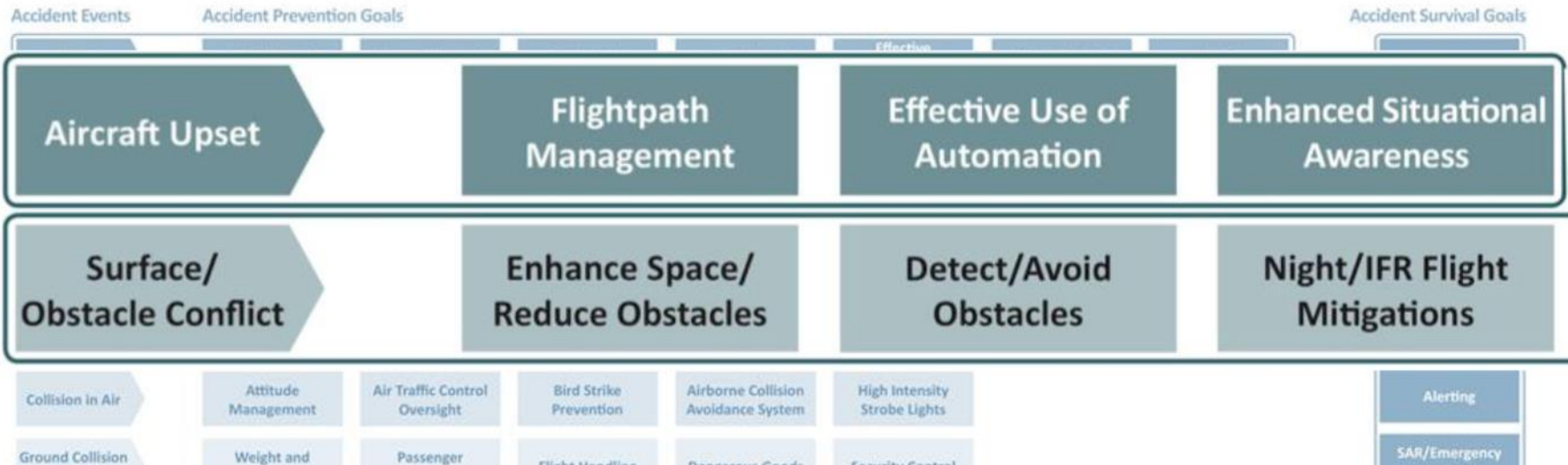
Does it all add up?



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Operational Effectiveness

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Operational Effectiveness: Key Projects

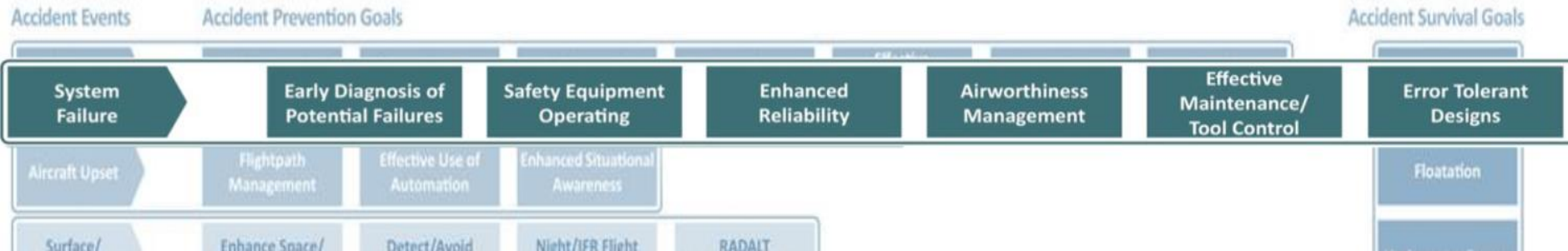
- Design
 - Helicopter Terrain Awareness Warning System (HTAWS)
- Procedures
 - Flight Crew Operating Manuals
 - Approach Path Management
- Training
 - Eye Tracking
 - Automation Training Videos
 - Evidence Based Training



Validation through FDM/LOSA

System Reliability & Resilience

HeliOffshore Safety Performance Model



System Reliability & Resilience Key Projects

- HUMS Best Practice
- Data Sharing/Tech Steering Group
 - Return to Base
- Method for assessing human performance as part of design
- Single point failure assessment method shared



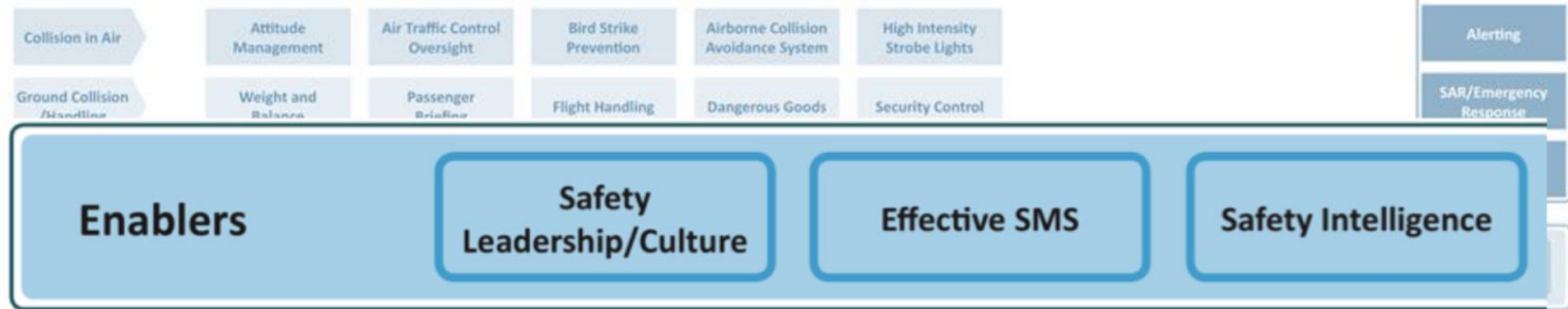
Right Results?

Informing Timely Decisions/Action?



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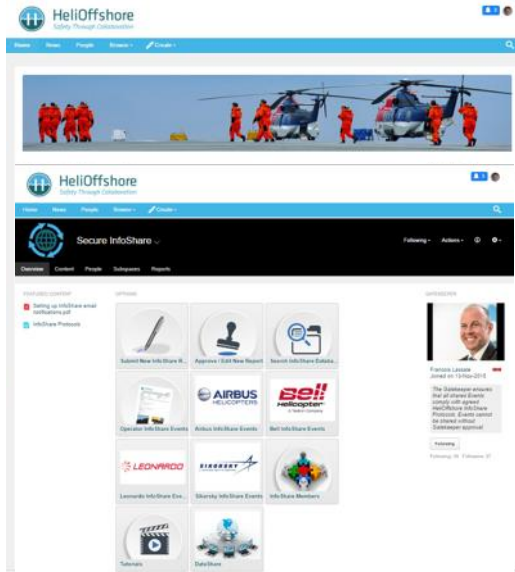
Safety Intelligence



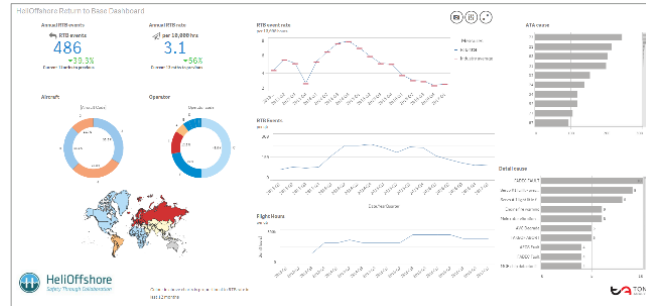
HeliOffshore Safety Intelligence Programme

Industry collaboration | 100+ organisations | Secure Cloud | Integrated Analytics

Phase 1 Infoshare *

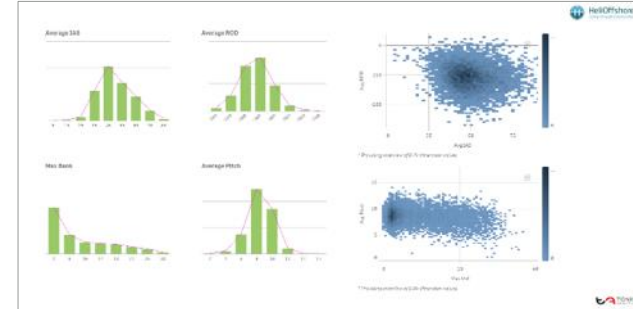


Phase 2: Analysis of Trends and Targeted Studies



Secure sharing and analysis of safety events, flight hours and event data

Phase 3: Analysis of raw data to identify trends



* Expanded to Helideck Events

Example data report – not real values

Operator C - Return to Base (Technical)

Annual RTB events
Operator C

224

▼47.5%

Change against previous 12m

Annual RTB rate
Operator C

2.5

per 10,000 hrs

▼56%

Change against previous 12m

Annual RTB events
Industry

486

▼39.3%

Change against previous 12m

Annual RTB rate
Industry

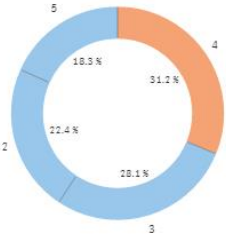
2.5

per 10,000 hrs

▼57%

Change against previous 12m

Aircraft type



Region



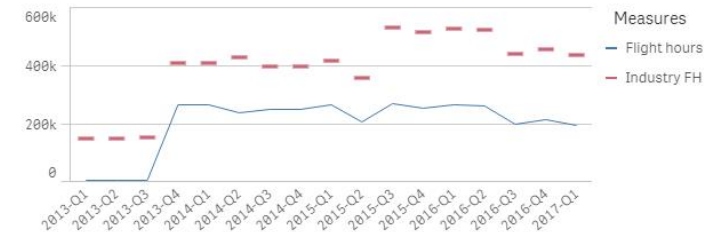
RTB event rate
per 10,000 hours



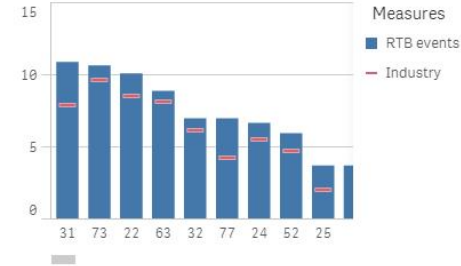
RTB events
per qtr



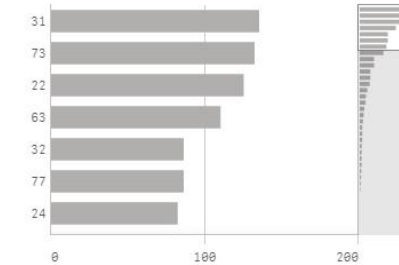
Flight hours
per qtr



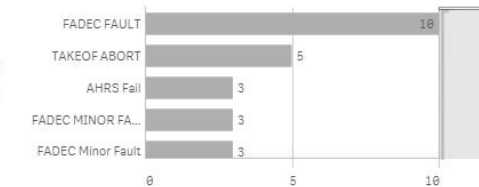
ATA cause percentage



ATA cause



Detail cause



Supporting Effective Human Performance



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Delivering on our shared commitment

Foster a coalition of safety leaders at all levels who:

- Agree common **goals**
- Align **priorities**
- **Communicate** the why and check enrollment
- Ensure appropriate **resources**
- **Project manage** the improvements
- **Collaborate** and make sure it all adds up
- **Share data** to check priorities and ensure frontline results

