Excellence Where it Counts

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Where Excellence Counts

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Case Studies in Collaboration

What does good look like?

Who else matters?

Does it all add up?

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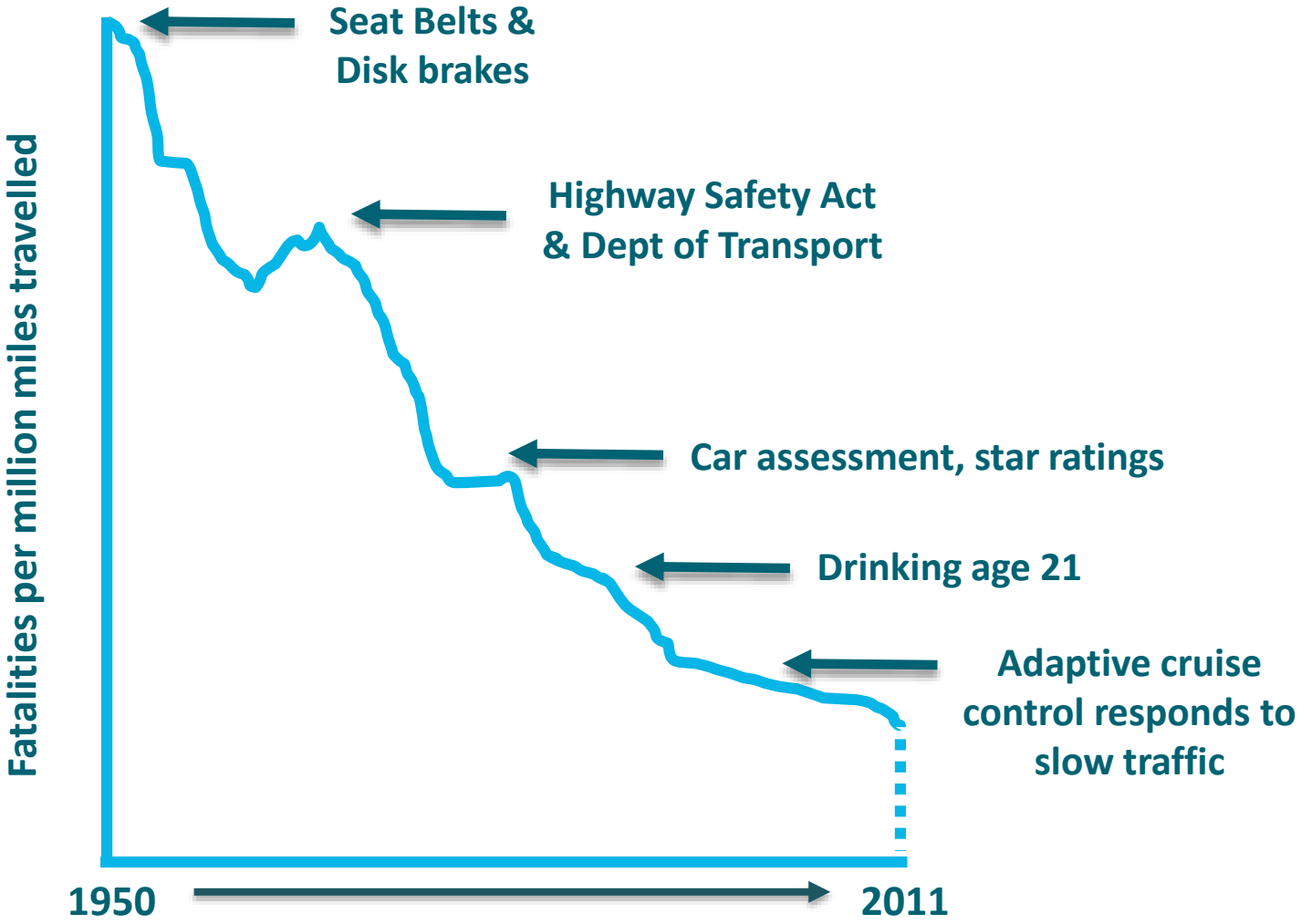
What is HeliOffshore?

Global Collaboration: Frontline Results

- Formed in 2014 by senior leaders collaborating rather competing on safety
- **No lives lost through offshore flight**
- Focus on Frontline Results
- Now over 120 Members worldwide

Car Industry Example

Think of how many lives could have been saved if this was done only 10% faster?



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UK Air Traffic Example

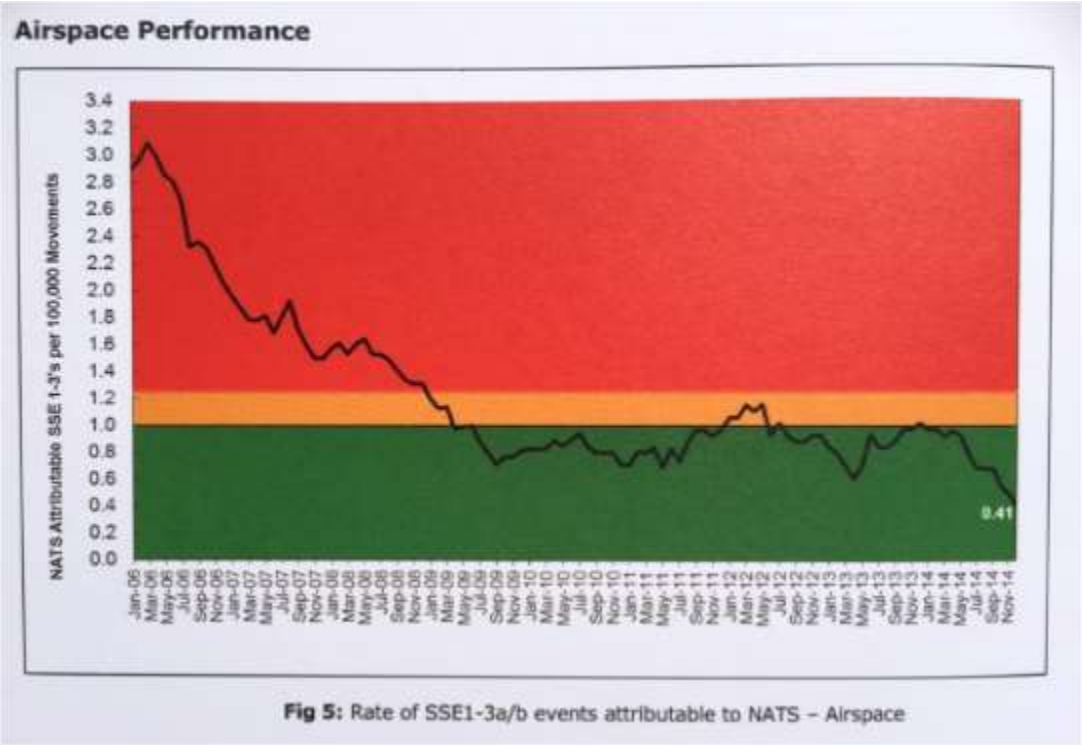

Fig 5: Rate of SSE1-3a/b events attributable to NATS – Airspace

70% reduction in 3 years during period of 30% cost savings

Excellence in Action

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Focus

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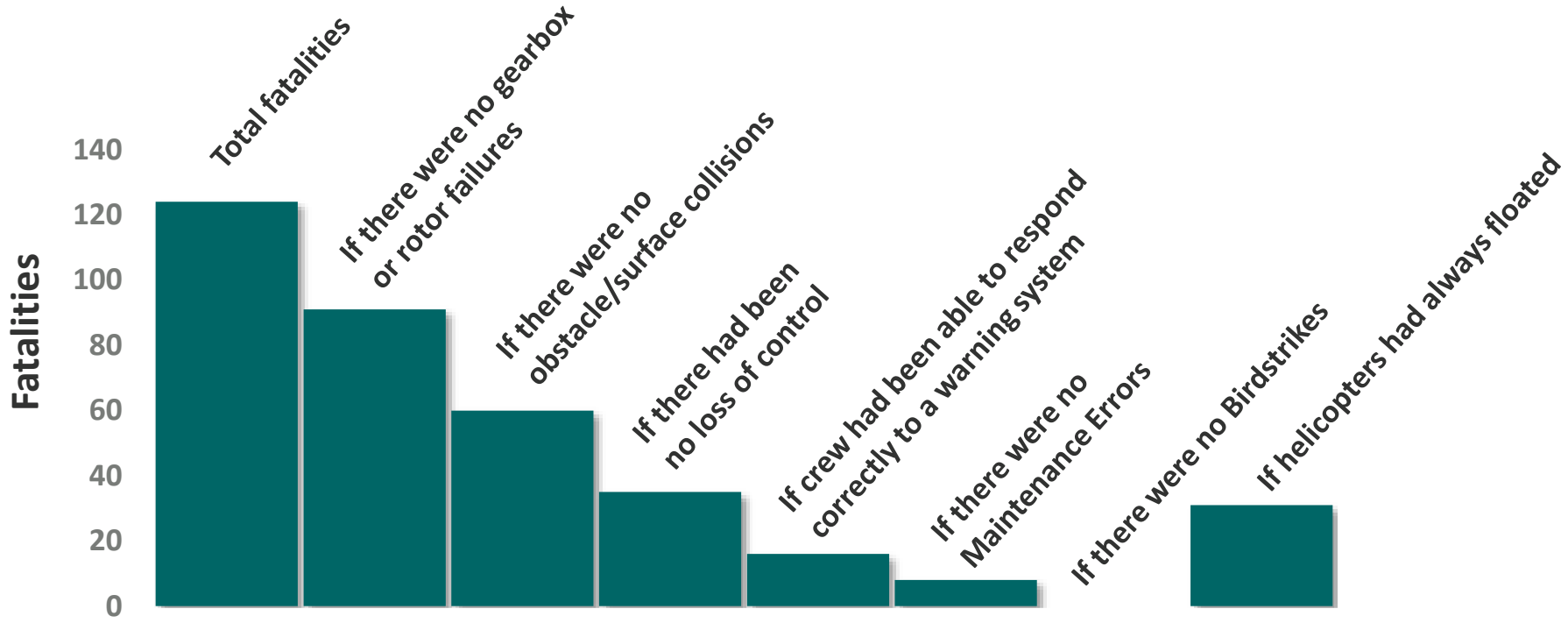
Aviation Safety Staircase (2006-2016)



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Focus

Faster, more efficient results

- Framework for Collaboration
- Fosters Innovation
- Rapid Bug Fixes
- Standard User Interface

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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

Summary

- Culture of Excellence where it counts – **What does good look like?**
- Frameworks for Collaboration – SMS in action at all levels – **Who else matters?**
  - Global, regional, state, organisation, fleet, etc.
- Day-to-Day performance measures – **Does it all add up?**
  - Leading to action and verifying effectiveness

We are united by our common purpose and our duty to get it right

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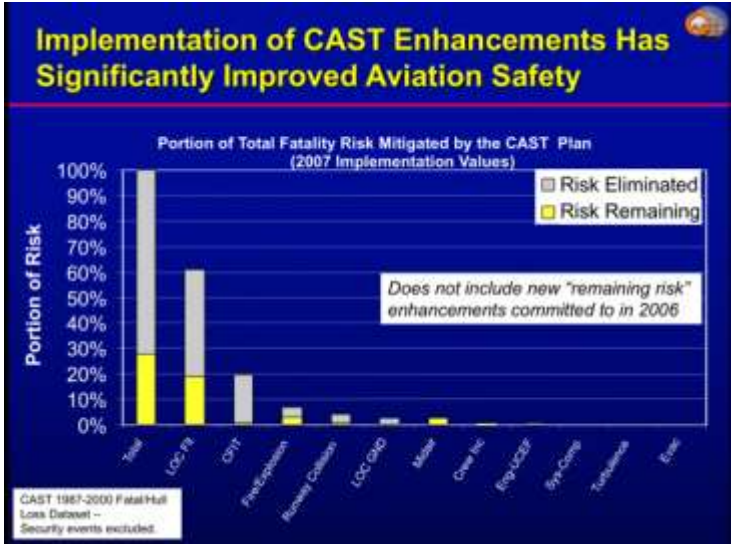
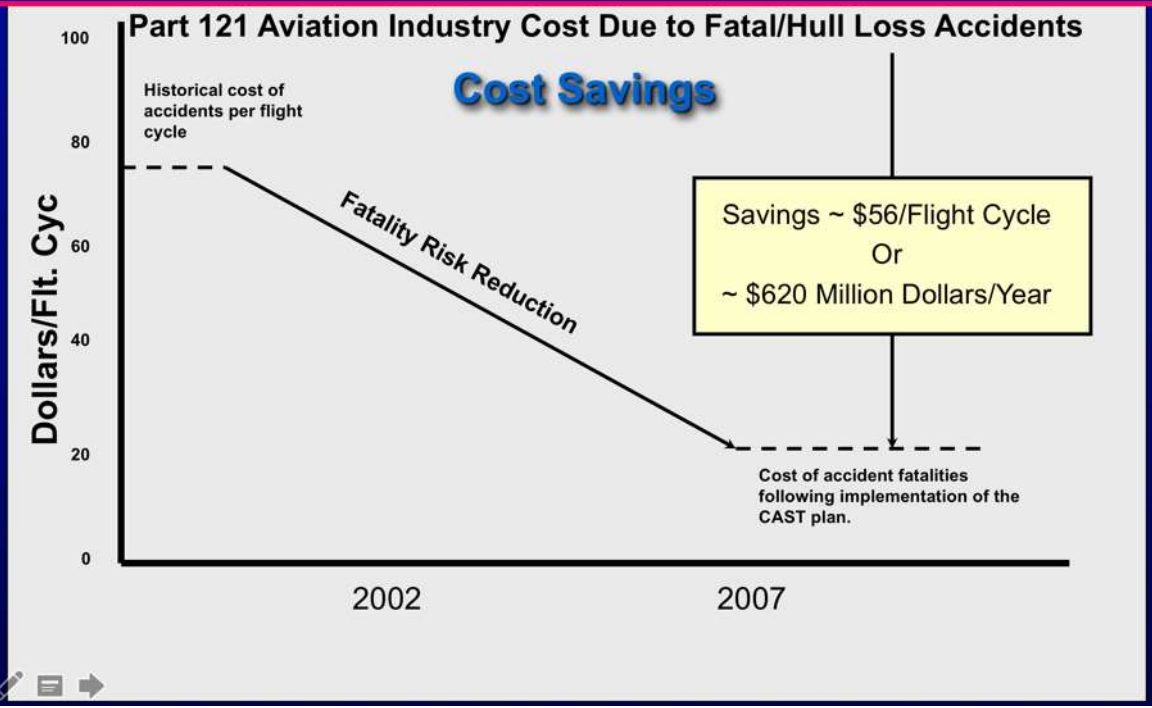
Commercial Aviation Safety Team (CAST) Example

- Airline industry: over 200 hull losses worldwide 1988-1998
- USA formed CAST in 1998, survived downturn after 9/11 attacks in 2001
- Set and met goal to reduce fatalities by 80%
  - Collaboration, strategy, data



CAST Maintained Commitment to Implementation Despite Challenging Post-9/11 Economic Conditions

CAST demonstrated that prioritized safety makes good business sense



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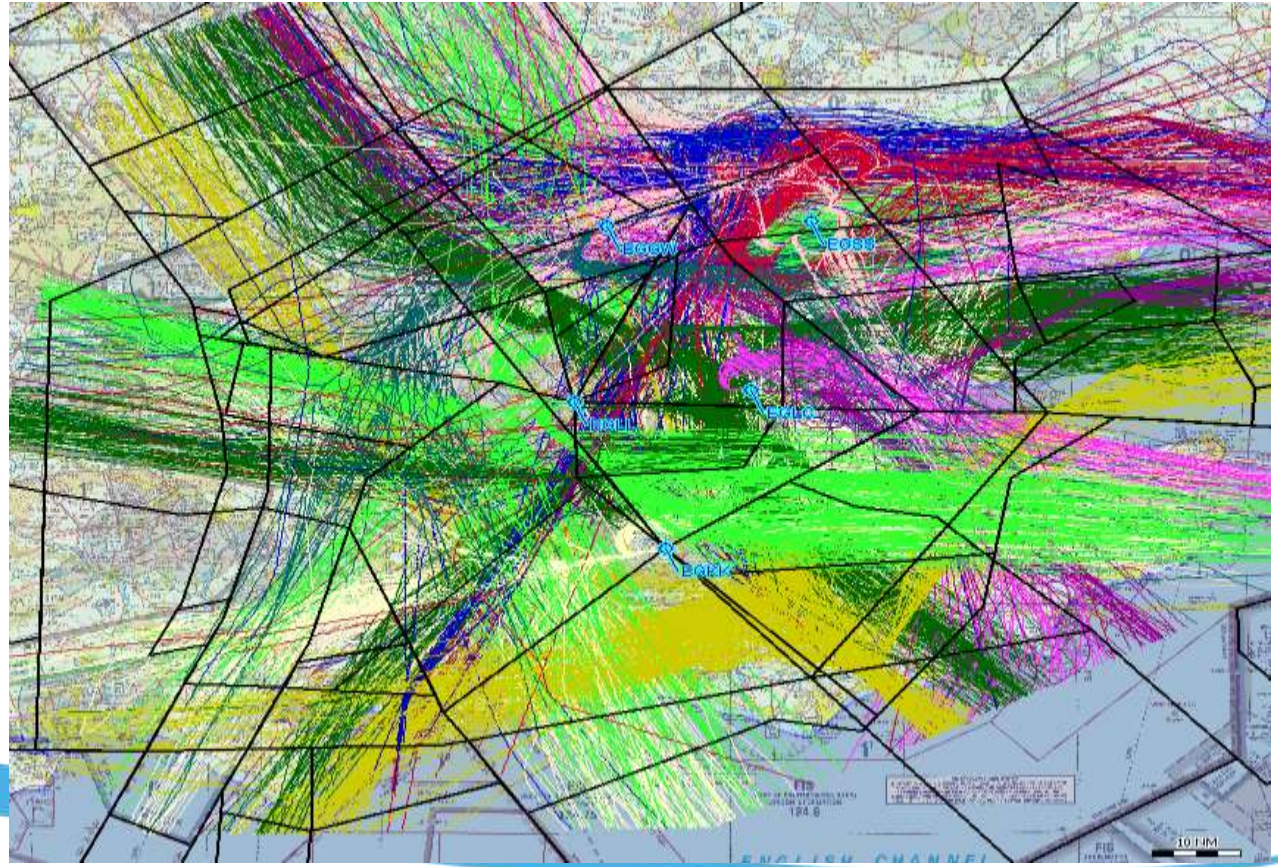
Departures & Arrivals Heathrow, Gatwick, Stansted, Luton, London City



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