

Getting to zero...

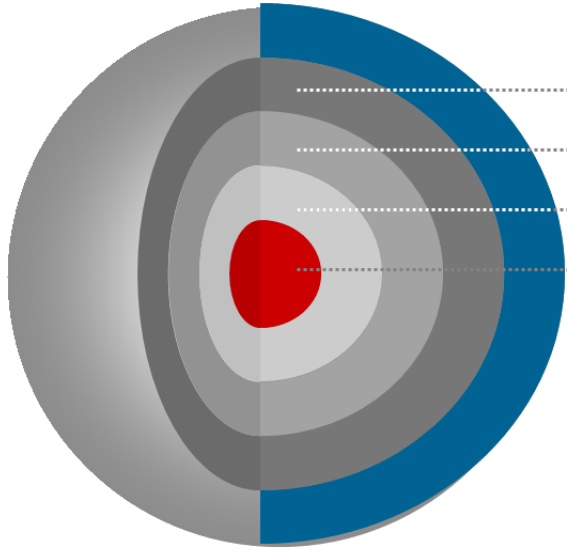
Tim Rolfe, CEO HeliOffshore



Changing tack post-pandemic...

- Emphasise a **Human-centric** approach:
 - advocate for active **well-being risk management**
 - adopt systematic observations of **normal work**
- ***Data → Decision → Delivery***

Industry cost of a catastrophic accident: c.£2-3Bn



- Wave 4 Loss of contract/service
- Wave 3 Industry implications
- Wave 2 Fleet grounding/disruption
- Wave 1 Asset Loss

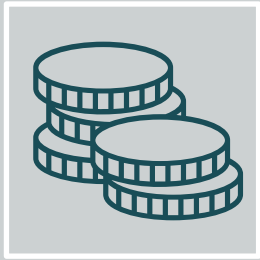
	Accident Wave	Impact	Cost
1	Core – Asset loss	Lives lost, asset loss; brand reputation; liabilities; management time	£30-50 million
2	Asset reduction in value - Fleet grounding, interim platform	Loss of asset and net worth value	£1-2 Billion
3	Industry implication - Loss of production, efficiencies, replacement platform	Industry disruption	£100 million
4	Loss of contract and service	Industry at risk	£1 + Billion



HeliOffshore's Vision:

*A safer frontline
served by an open, responsive and aligned industry...
...so no lives are lost in offshore aviation*

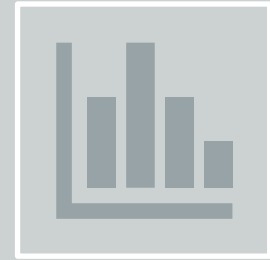
Getting to zero: the core elements



INVESTMENT



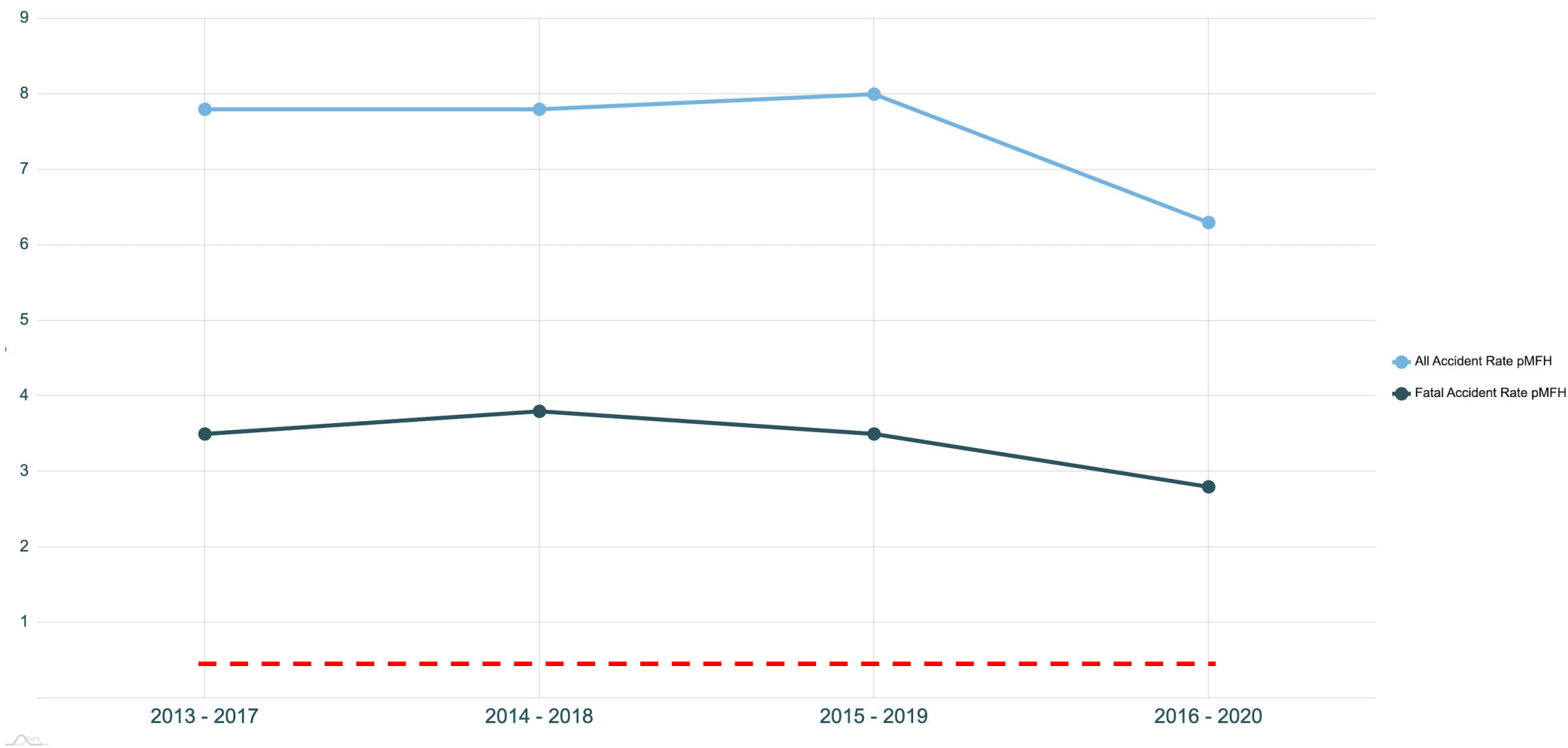
TRUST



LEARNING

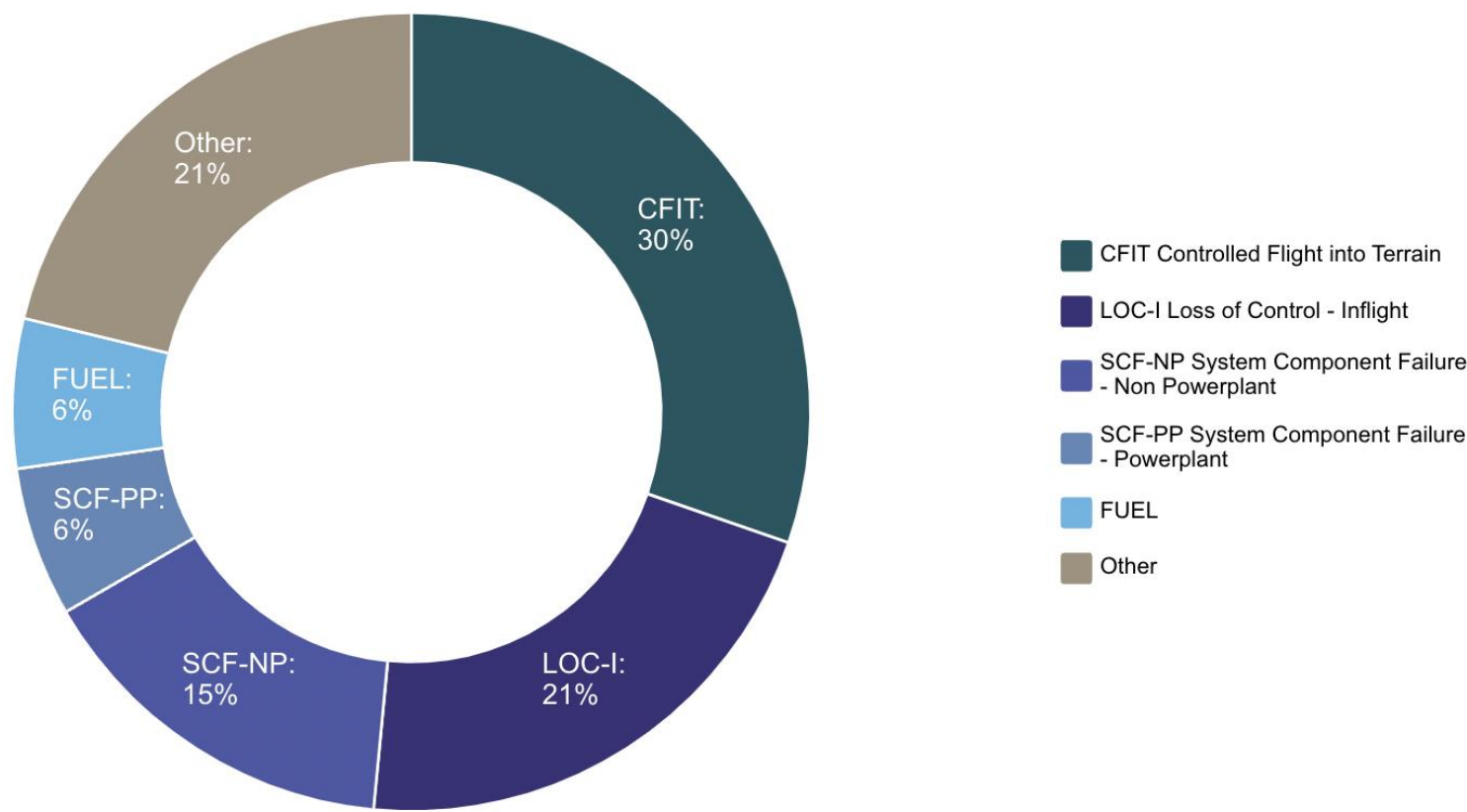
HSIP Data

5-year Average Accident Rates



HSIP Data

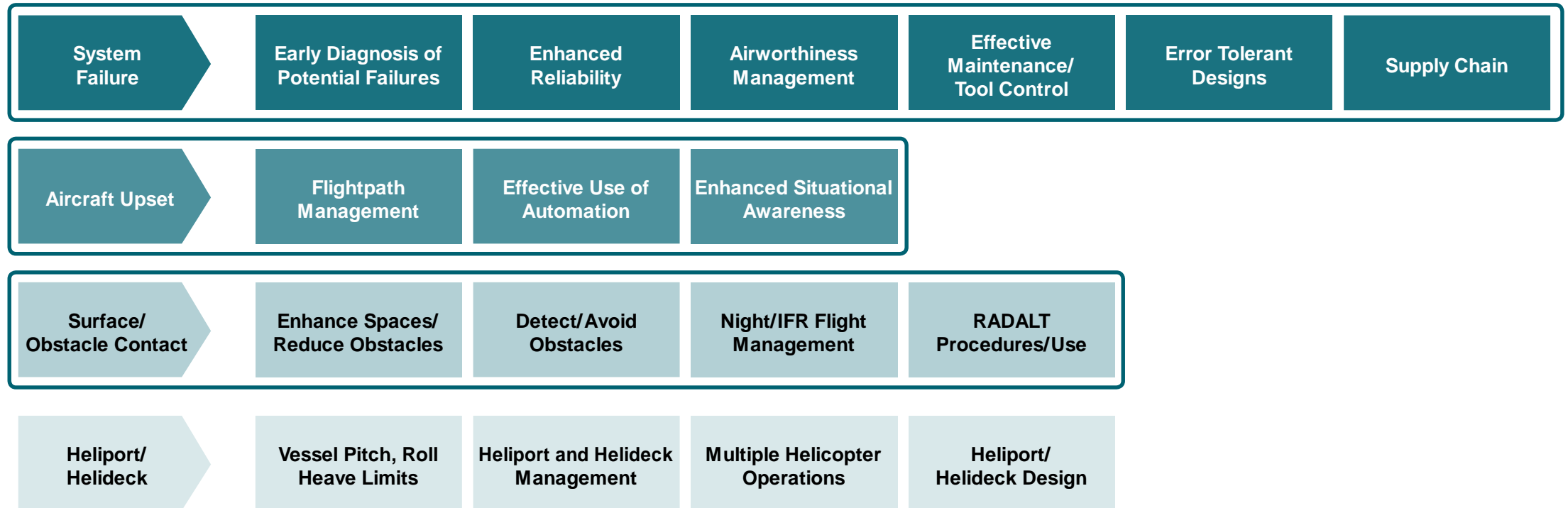
CICTT Occurrence Categories for Fatal Accidents (2013-2020)



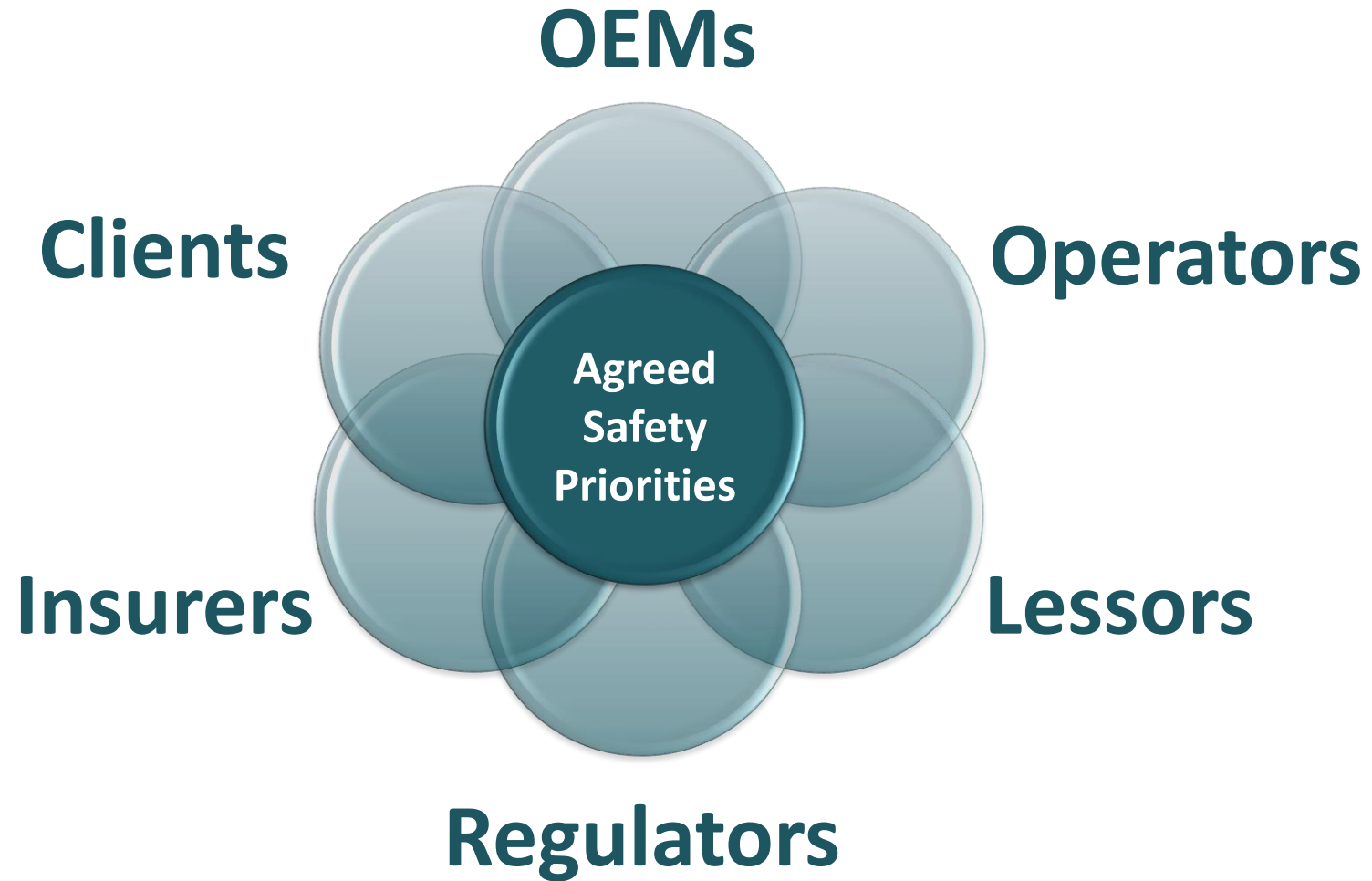
HeliOffshore Safety Performance Model Priorities

Accident Events

Accident Prevention Goals



Getting to zero: “...aligned...”



Getting to zero

Frontline focus...

...so no lives are lost in offshore aviation

Getting to zero: learning from new sources

Accident Analysis

- ☐ Open
- ☐ Responsive
- ☐ Aligned

Observing Normal Work

- ☒ Open
- ☒ Responsive
- ☒ Aligned



Getting to zero: learning from the frontline...



Getting to zero: delivering the value case for safety

- Linked to key safety priorities
- Underpinned by new **data**
- Clear everyday performance benefits:
 - robust investment **decisions**
 - reduced operational risk
 - **delivering** improved safety performance
 - increased asset value
- **Work in progress....**

C+

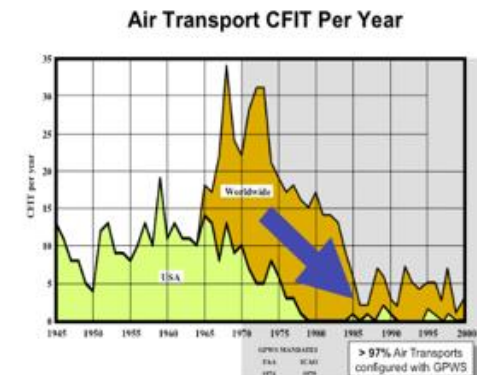
Business Case for Helicopter Terrain Awareness Warning Systems

1. Investment Priorities: why your investment matters

Controlled flight into terrain, water or obstacle events (CFIT) remain the largest single cause of offshore accidents. Since 2013, one third of the fatal accidents in oil and gas passenger transport, comprising of 10 accidents with 41 fatalities, have been categorised as CFIT. There has also been a large number of non-fatal accidents and incidents associated with CFIT. Learning from the fixed-wing industry - who successfully reduced this accident type by more than 97 percent – demonstrates that effective warning systems can counter this threat. These systems have already been installed in helicopters, but the collaborative efforts of the offshore industry have demonstrated that tailoring the warning system to the offshore environment will deliver crucial improvements in warning times. Implementation of the **Helicopter Terrain Awareness Warning Systems (HTAWS)** will save lives by **dramatically improving warning times**. Earlier detection and alerts provide the pilot with more time to see, react and avoid a collision.

The following table shows how critical these seconds are:

Occurrence	Warning Times					
	Current Equipment		Modified Equipment		Improvement	
	AVAD	HTAWS	Revised Envelopes	New Envelopes	Seconds	%
Silly Isles, 1983	24.0	4.0	24.0	0.0	0.0	0
Cormorant 'K', 1992	6.0	1.5	17.0	0.0	11.0	183
Morecambe Bay, 2006	7.0	7.0	8.0	35.0	28.0	400
ETAP, 2009	7.0	1.5	15.0	13.0	8.0	114
Sumburgh, 2013	5.0	7.0	8.0	13.0	6.0	86
Clipper, 2013	0.0	5.0	35.0	0.0	30.0	600
Sea Rose, 2011	12.0	18.0	32.0	15.5	14.0	78
'920194'	1.0	6.8	11.4	18.0	11.2	165
Best warning time (current)		Best warning time (new)				



Dramatically increasing the time available to understand and react to a warning – potentially by up to 600 percent - can be the difference between a near miss and a catastrophic accident. You have an opportunity to claim that time: **HTAWS Modes 1 to 6 are available now to source and implement.**

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Thank you!