

# ZELIM

Beyond-human certainty

USING AI FOR  
AUTOMATIC MOB  
DETECTION TO  
ENHANCE OFFSHORE  
SAFETY

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OEUK HSE CONFERENCE 2026



# INTRODUCTION TO ZELIM

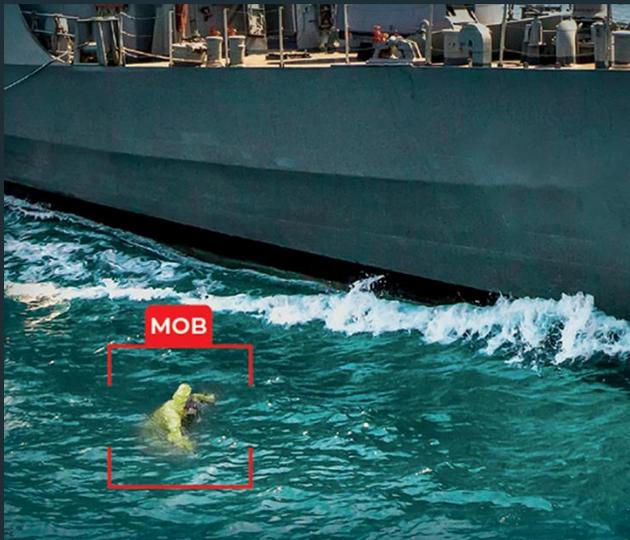
## Beyond-human certainty

- > Automated alerting
- > Safety of navigation
- > Tracking threats to life
- > Our Purpose: To save lives and protect operations using technology that goes beyond human limitations.
- > HQ, Edinburgh Scotland

# ZOE INTELLIGENT DETECTION

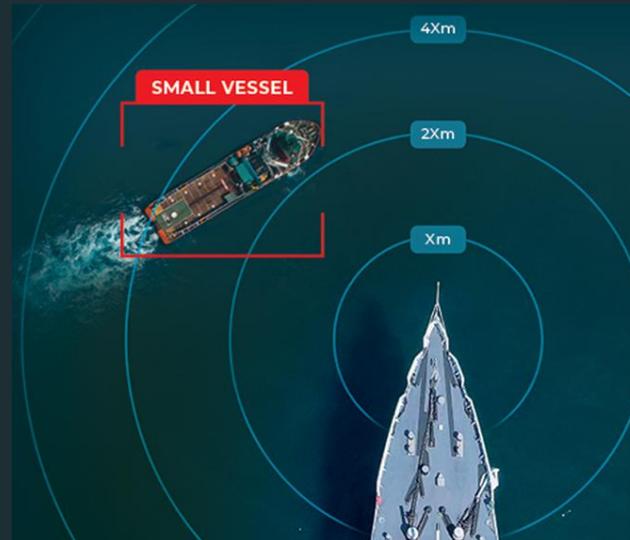
Beyond-human sight

MOB



Automatic detection,  
tracking & alerting

LOOKOUT



Safe navigation

LOOKOUT+



Security threat  
detection

# ZELIM

FIND  RECOVER  PROTECT

[CLICK TO WATCH](#)

# ZOE MOB

## AI-powered detection, alerting & tracking of man-overboard events

When every second counts, ZOE MOB gives crews the vital “where and when”

- > Proven with Valaris 99.9% uptime.
- > Real-time automated detection and alerting of crew members that fall overboard.
- > Precise tracking & geo-location information
- > Detection rate of 96.8%, surpassing conventional standards.
- > Persistent performance, day or night, good weather or bad weather



ISO21195 Approved  
MOB Detection



AI models built on  
proprietary dataset of  
7.5m labelled rescue  
images



Delivers detection  
and tracking in the  
harshest offshore  
environments

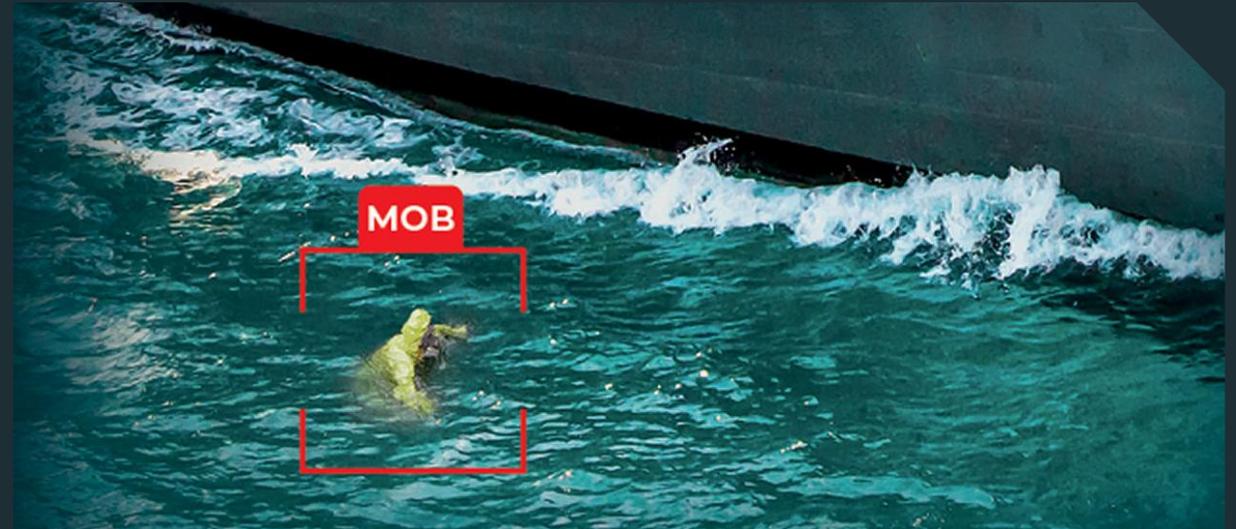


British Safety  
Council's 2025  
Health and Safety  
Transformation Award

# BENEFITS

## Over traditional detection methods

Extreme weather, poor visibility, and human fatigue mean even the best crews can miss a person in distress or fail to recover them in time. Zelim's technology changes the odds.



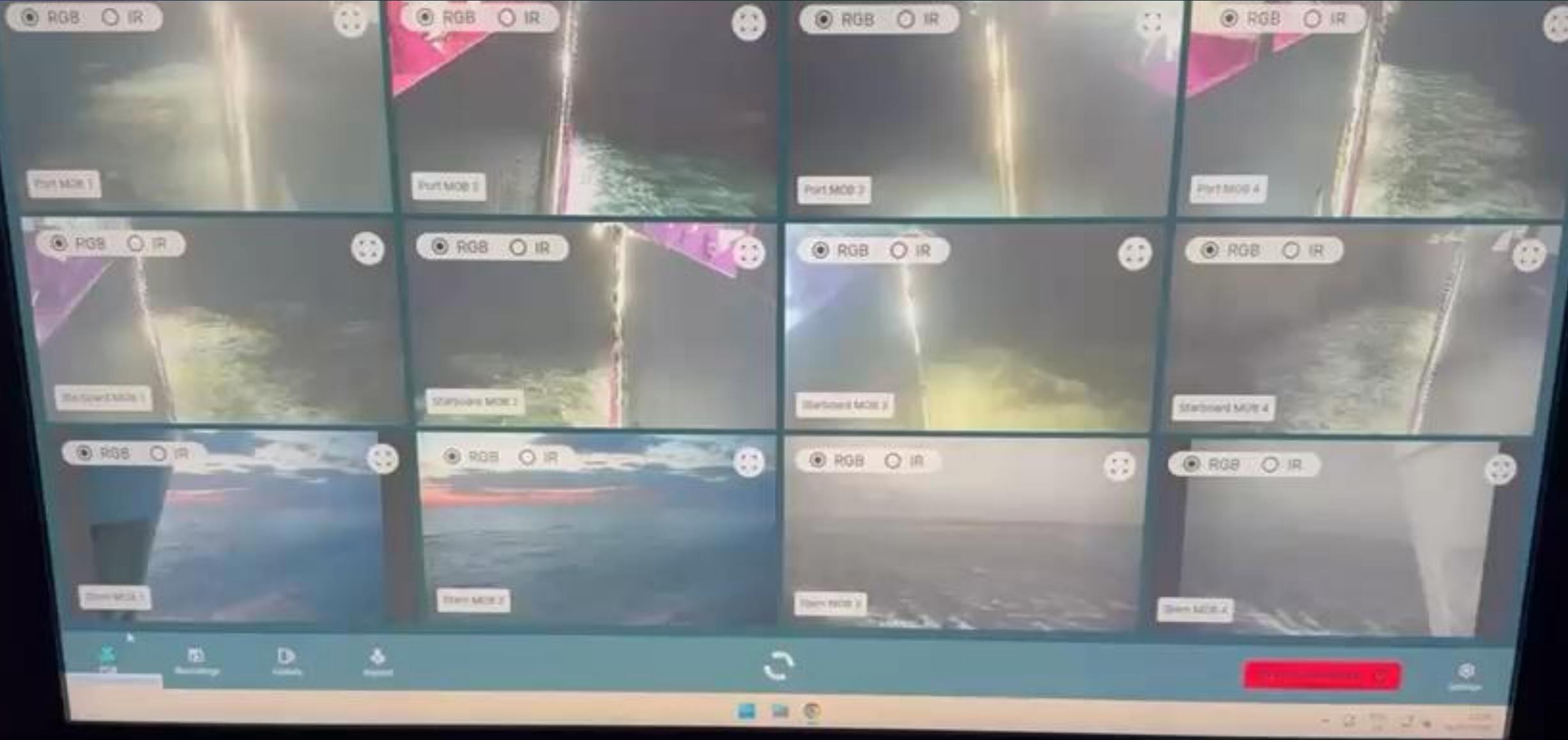
### Key maritime detection and surveillance challenges

 Vessel crews still heavily rely on the human eye, either on screen or by <b>scanning the sea surface</b> .
 <b>Extreme weather and sea spray</b> drastically reduce visibility, making it easy to miss hazards or people in the water
 <b>Radar/AIS systems miss low-signature objects</b> , such as unmanned surface vessels (USVs), RIBs or persons in water
 80% of deaths in the water occur in the <b>first 30 minutes</b> .



### ZOE: Overcoming key challenges & providing significant benefits

 <b>Automatic detection, tracking and alerting</b> of persons in the water.	 Not affected by <b>distraction fatigue, or workload</b> .
 Human searcher proven to be less than 20% effective. ZOE achieves <b>&gt;95% detection accuracy</b> .	 <b>Reduces crew workload</b> and improves decision-making in high-pressure environments.
 Instantaneous detection <b>saves valuable time</b> during search and rescue.	 <b>Detections are logged</b> with time and location stamps and <b>stored indefinitely</b> .
 <b>Performs in bad weather</b> , including through fog, sea spray, and darkness.	 Defined event <b>action plan</b> for users in emergencies.



CLICK TO WATCH

# PERSON OVERBOARD

In-water detection

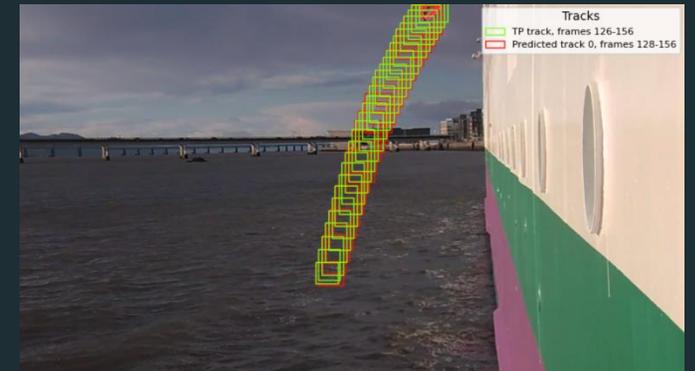
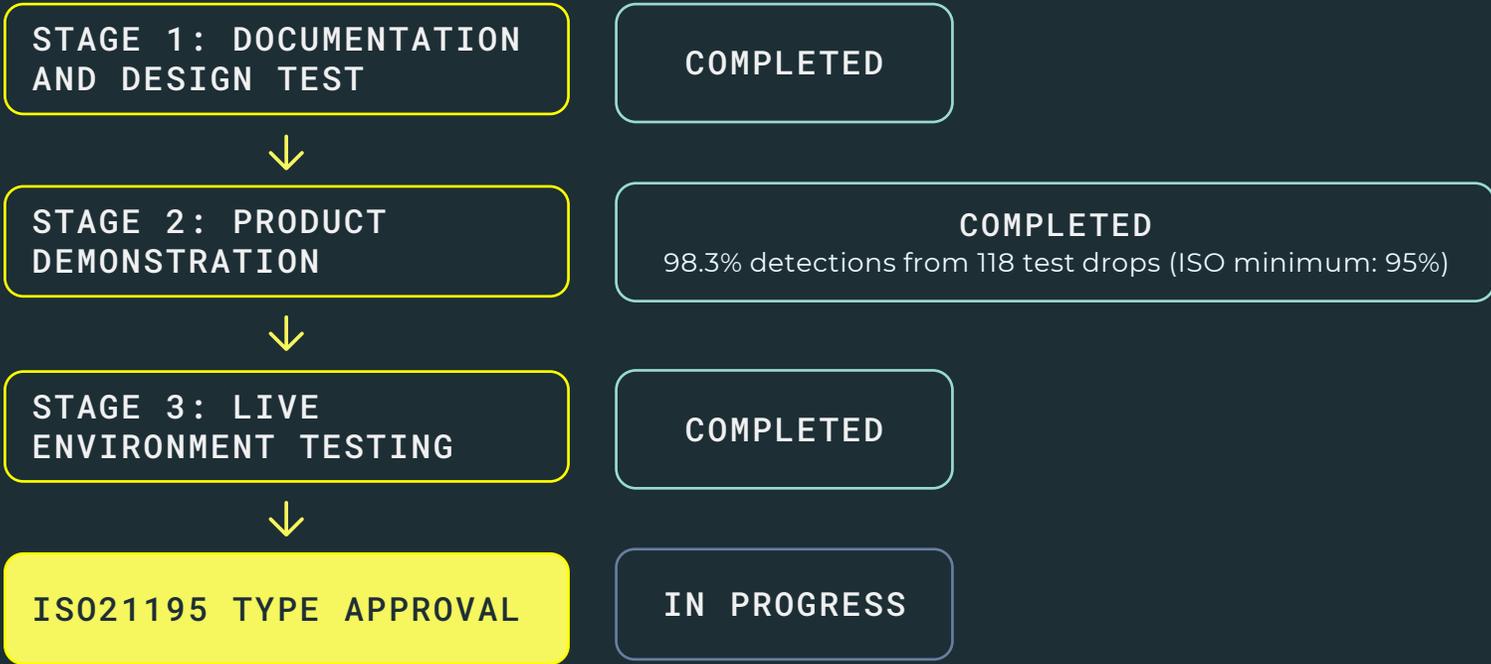
CLICK TO WATCH

MOB IR 2025-09-17 08:46:01 (GMT)



# POST-FALL IN-WATER TRACKING

ISO21195:2020 requires that man overboard detection systems should have a minimum 95% detection probability and generate no more than one false alarm per day on average.



# ZOE LOOKOUT +

## 360-degree perimeter security threat detection

- > Full perimeter security with automatic detection, classification, tracking and alerting in real-time of potential security threats within 500m zone.
- > Monitors static and dynamic hazards on the water surface, from horizon to vessel periphery.
- > Detected objects of interest are annotated on the video stream and alerted to the operator should they present a hazard the asset.
- > All indications, alerts & actions taken by users, are logged as events and available for review with supporting imagery.



**360° perimeter security threat detection**



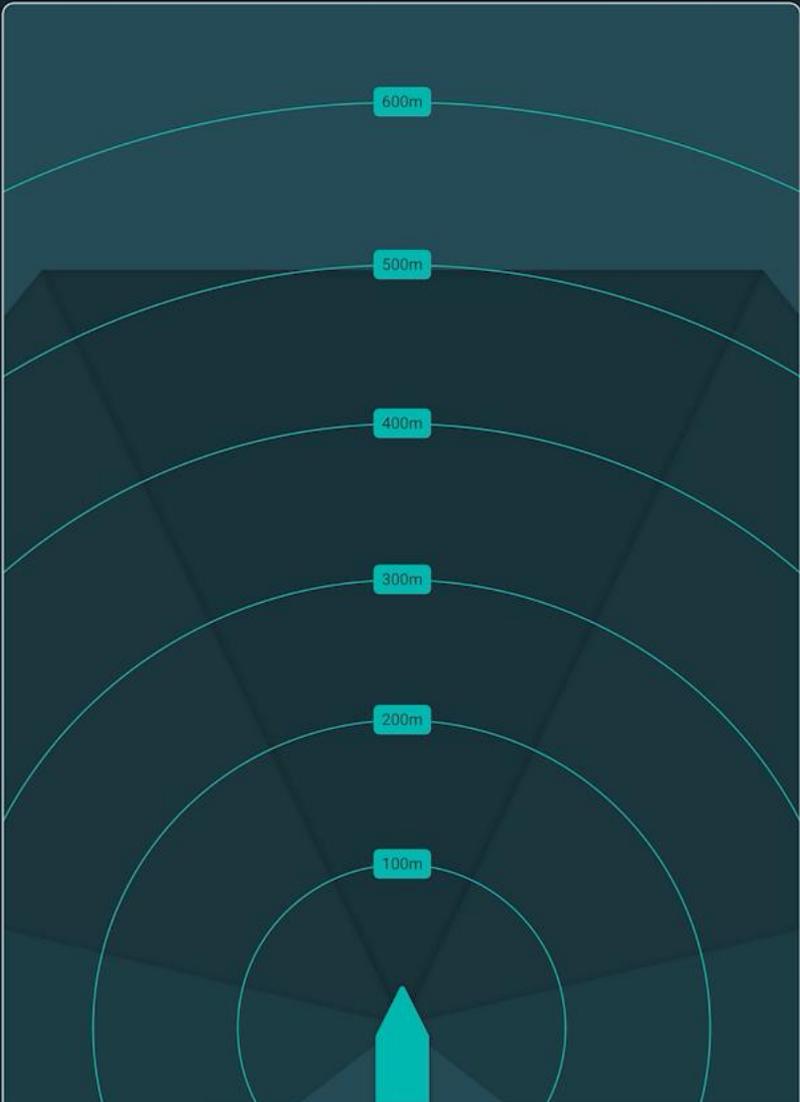
**Integrates with existing systems**



**Performs reliably in the harshest offshore environments**



**Safeguards high-value assets & personnel**



Bow Stem Port F.Port Bow F.Starboard Low visibility

Forward 360° Zoom in Zoom out

CLICK TO WATCH

Home Watchkeeper Map MOB

History Nominal Settings





THANK YOU

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