Detection & Prevention Of Near-Miss Workplace Fall Injuries Without Vision Analytics
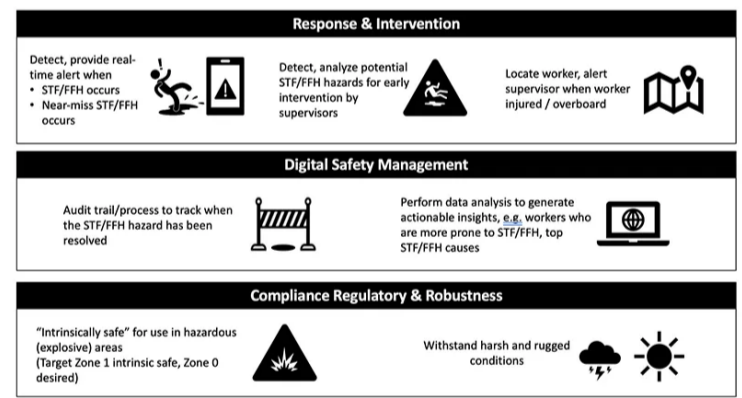
Key Focus Area: Crew Safety, Training and Wellbeing

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Workplace fall is one of the top injuries in the Marine and Offshore sector. The fall can occur on the ground level due to Slips, Trips and Falls (STF) or working at heights above ground level resulting in Falls from Height (FFH).

These risks could be due to factors such as poor situational awareness, slippery or uneven surfaces, structural obstruction or clutter. A slip or trip that doesn't result in a fall, known as near-misses, are usually not reported. If these potentially hazardous areas are left unaddressed, they could result in a serious or fatal injury to other crew members.

The Association of Singapore Marine Industries (ASMI) and the Workplace Safety and Health Institute (WSHI), part of the Occupational Safety and Health Division (OSHD) in the Ministry of Manpower (MOM), are looking for solutions to detect and prevent STF, FFH and near-misses, perform data analysis and generate actionable insights to allow for a safer work environment. Solutions should consider the limited internet connectivity and visibility in some areas, and not hinder the personnel's comfort and movement. It should also be intrinsically safe for use in hazardous areas (risk of causing explosion), economically viable for large-scale implementation, and deployable at sea and onshore.

Desired Outcome:

A recording of the roadshow is available here.

Co-creator(s):

- **Association of Singapore Marine Industries (ASMI)**
- **Workplace Safety & Health Institute (WSHI), Ministry of Manpower**

Other supporting corporate sponsor(s):

- **Anglo American**
- **Vopak**