



Extreme weather events

RAIIF 2025, Taiwan
Conference Keynote

Presented by
Angus Mitchell
Chief Commissioner





7
NEWS
DOWNLOAD THE APP

Findings – what happened

ATSB



Light Moderate Heavy



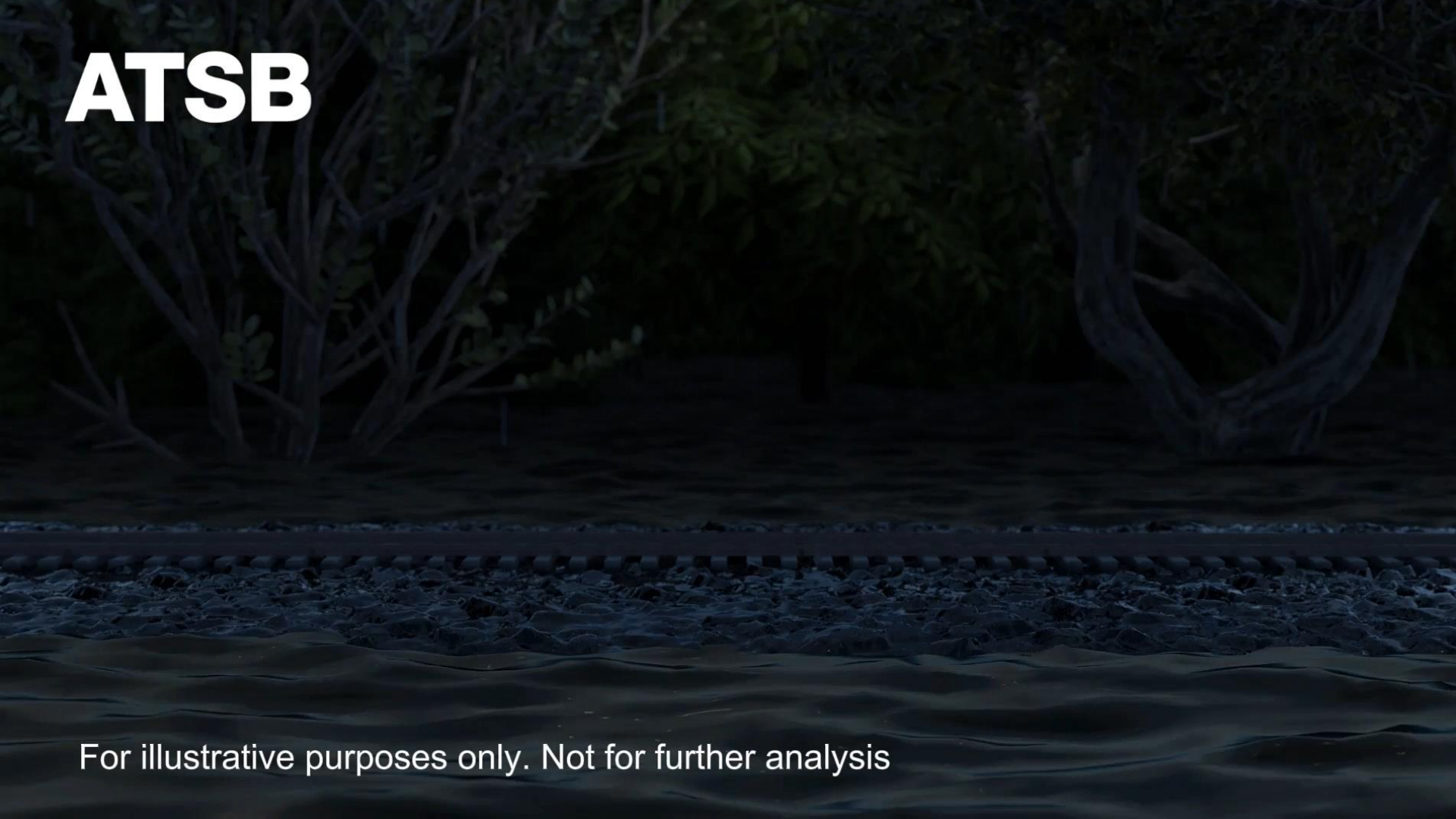
Findings – what happened

ATSB



The image taken later on the day of the derailment shows the relative locations of the derailed train Y279, cross-track drains and the Traveston weather station.

Source: ATSB

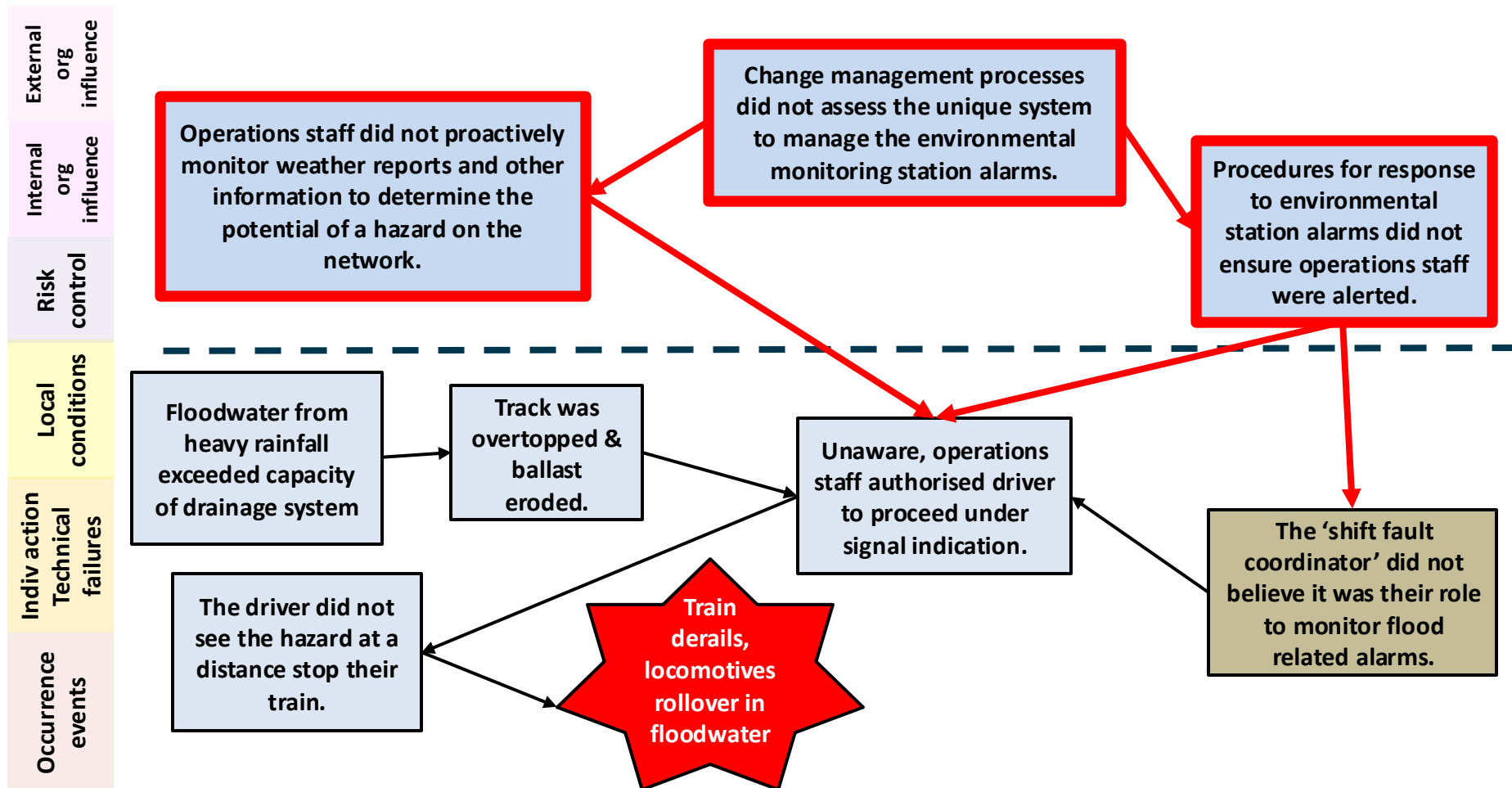


ATSB

For illustrative purposes only. Not for further analysis

ATSB







The infrastructure manager has since implemented:

- enhanced alarm notification systems,
- upgraded training programs,
- improved equipment serviceability protocols, and
- strengthened operational procedures to manage adverse weather events.

The emergency exit pathway through a side window, was inadequate to ensure a prompt and limited access by emergency services.

The operator has developed an access and egress compliance strategy

- Importance of serviceable environmental monitoring equipment **and** for network operations personnel to be alerted to any hazardous conditions
- Training for personnel must ensure they can effectively identify and consistently assess conditions affecting the network during weather events
- Importance of systems to address evacuation hazards following a derailment and rollover – in particular for driver-only and remote locations

Melbourne derailment

**Derailment at
Clifton Hill
13 July 2025**

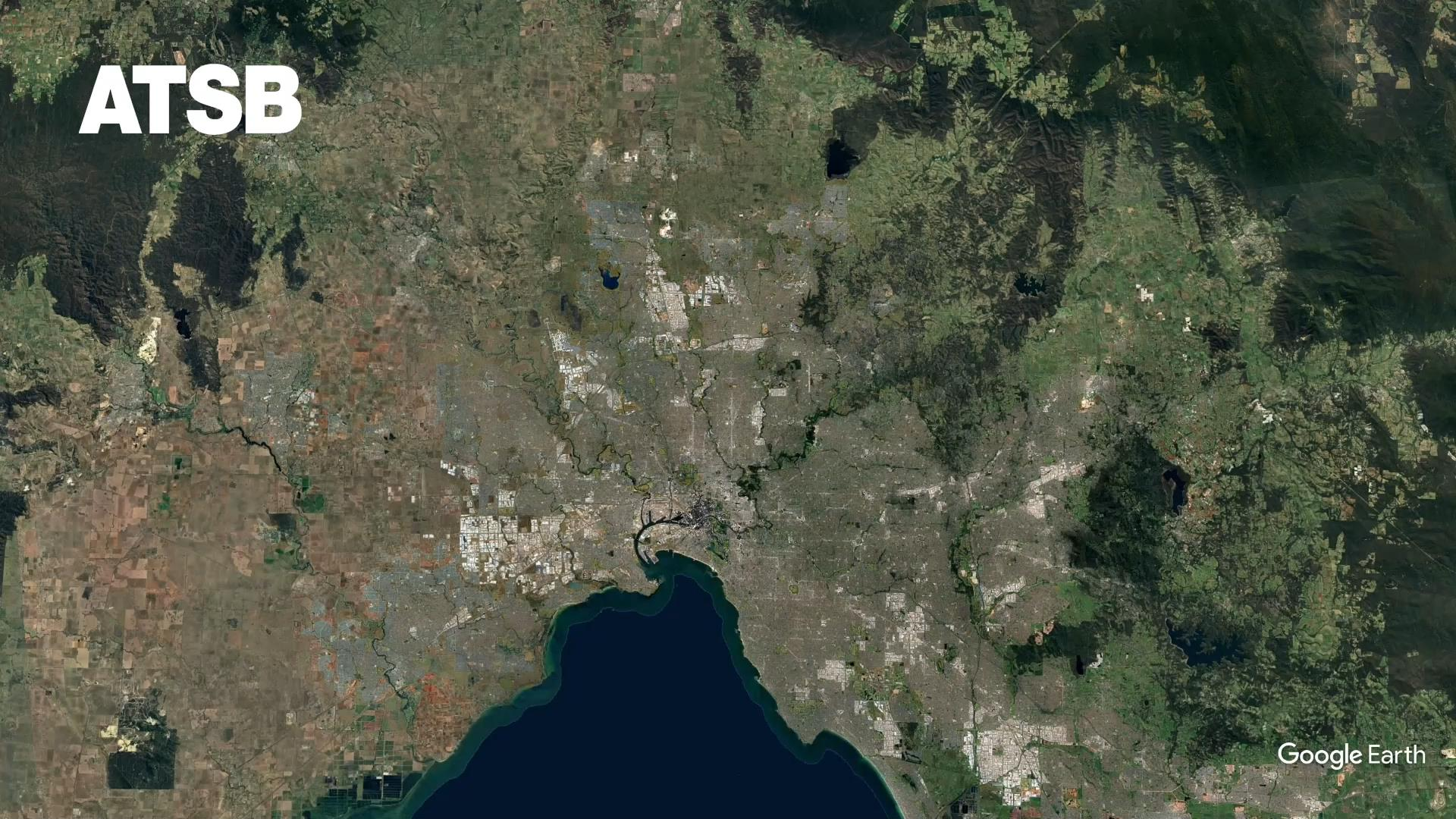




7 NEWS

7
NEWS
DOWNLOAD THE APP

ATSB

A satellite map showing a coastal region. The bottom of the image features a dark blue body of water with a green shoreline. Above the water is a large urban area with a dense grid of buildings and roads. To the left of the urban area is a large, dark green forested region. The top of the image shows more forested areas and some smaller bodies of water. The overall terrain is a mix of urban development and natural landscape.

Google Earth

ATSB



OCI Office of the
Chief Investigator
Transport Safety

For illustrative purposes only - not for further analysis



ATSB

OCI Office of the
Chief Investigator
Transport Safety

ATSB



OCI Office of the
Chief Investigator
Transport Safety

For illustrative purposes only - not for further analysis

A close-up photograph of a railway track. A rusty metal rail runs vertically through the center. To the left and right of the rail are metal fasteners (clips) with large hexagonal nuts. The fasteners are mounted on a base plate. The rail and fasteners are surrounded by grey gravel. The background is slightly out of focus, showing more of the track and gravel.

ATSB

OCI Office of the
Chief Investigator
Transport Safety