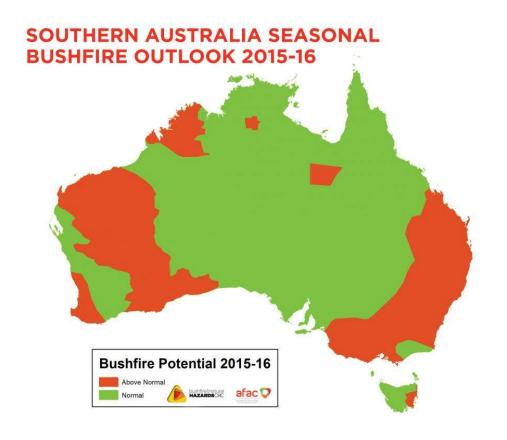


- Australia is a continent with extreme climates.
- Unpredictable weather events are not new.
- In the last decade there has been a focus on frequency and extremity of 'weather events'.
- Community expectation has changed in how agencies respond



Heat Wave

Bushfire - risk





Track misalignment





Torrential Rain – Flash Flooding



Electrical Storms

Signalling, Communications & Overhead Traction Supply





Strong Winds & Cyclonic events



- Rail agencies do not have emergency response role
- Delay waiting for emergency services to 'hand back' the site and allow access
- Rail Agencies do not have 'in house' specialist recovery equipment



Resilience Factors

- Strategic Investment
- Infrastructure improvements
- Graceful degrading of network
- Underground cables
- Reliance on 'advance warning systems'
- Lessons learned from previous events





QUESTIONS