

The Development of the ONRSR Annual Safety Report

Consultation with the RISSB Safety Managers Group

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Agenda



- The role of ONRSR in rail safety data
- Safety reporting before ONRSR establishment
- Scope of the first Annual Safety Report
- Annual Safety Report challenges
- Content outline
- Future

The Role of ONRSR in Rail Safety Data



ONRSR has two key roles in relation to Rail Safety Data

1. Data to support regulatory function:

“maintain and improve rail safety through effective risk based regulation”

– to enable a risk based approach to regulation we need data and knowledge of risks

– under RSNL operators notify ONRSR of rail safety occurrences

– we need to effectively convert this safety data into intelligence

2. Custodian of national rail safety data on behalf of the industry:

– centralise collection of notifiable occurrence reported by RTOs

– capture / consolidate historical safety data

– take ownership of national reporting framework and associated guidance e.g. OCG1 and ONS1

– lead the development of the National Data Strategy for Australian Rail

– transition responsibility to industry over time

Safety Reporting Before ONRSR Establishment

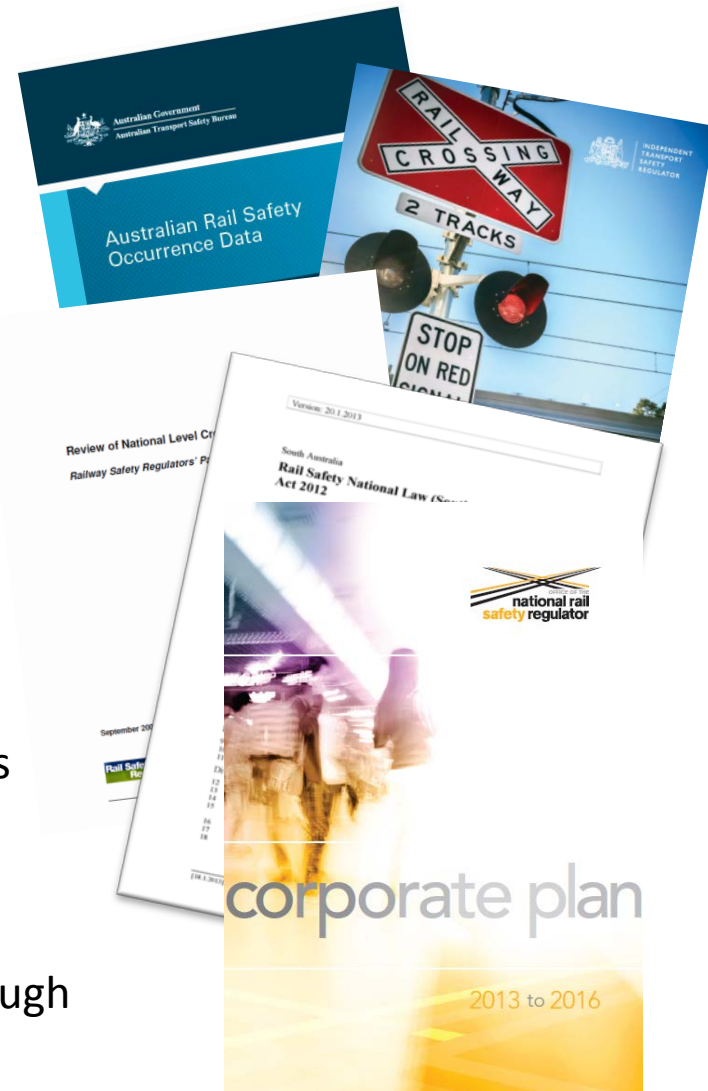


Historically...

- reporting varied markedly between jurisdictions
- limited / led by available data (OCG1, ONS1)
- 'performance' based on frequencies rather than risk
- little insight into infrequent but catastrophic events relevant to rail but absent in observed data
- precursors based on available data rather than contribution to train accident / other catastrophic risk

Our Intent...

- single annual picture of rail safety nationally
- focus on priority risks rather than just OCG1-based stats
 - some OCG1 stats will be included noting ATSB will no longer be producing their bi-annual statistical summary
- information useful to industry and the regulator
- identify information gaps and address strategically through National Data Strategy and related initiatives (SISAR)



Scope of the First Annual Safety Report



“Safety”

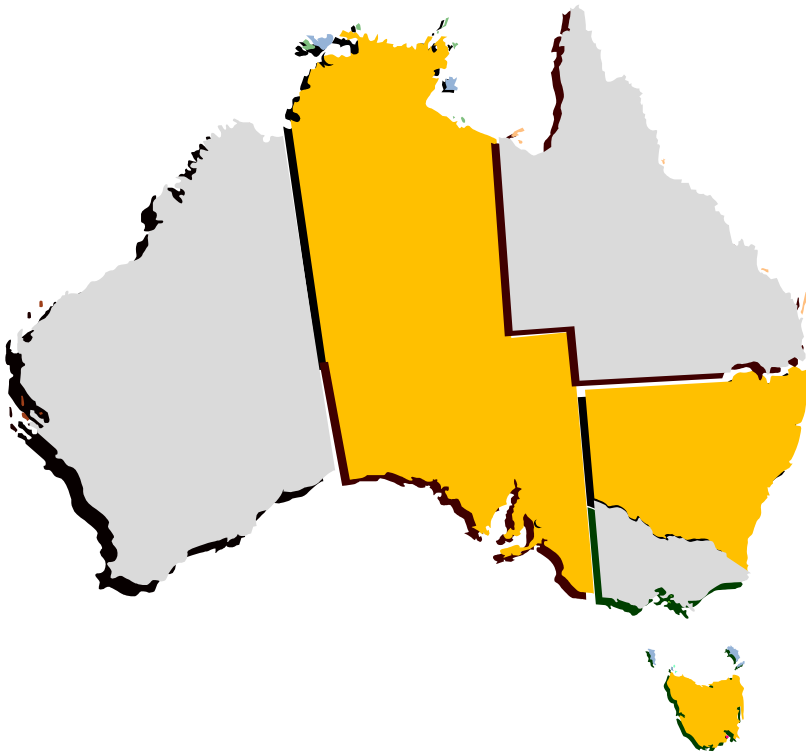
- safety of people interacting with rail
- train accident and other catastrophic risk
- heavy and light rail; commercial, T&H

Reporting Period

- ONRSR commenced 20 January 2013
- focus on 1 July 2012 to 30 June 2013
- intend to go back further where data is accurate and useful for the analysis

Study Area

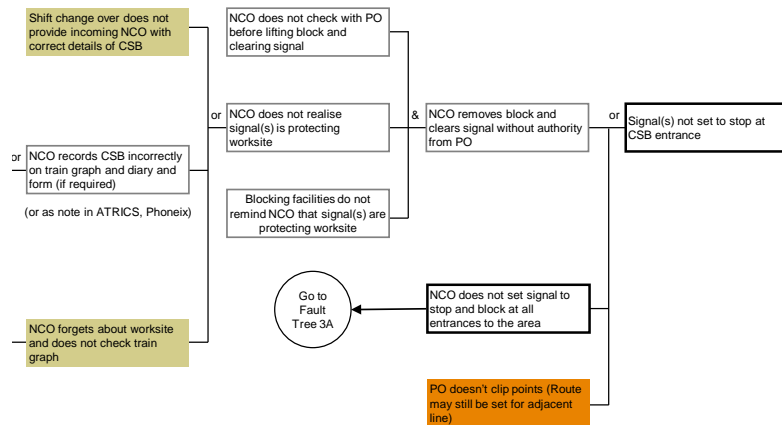
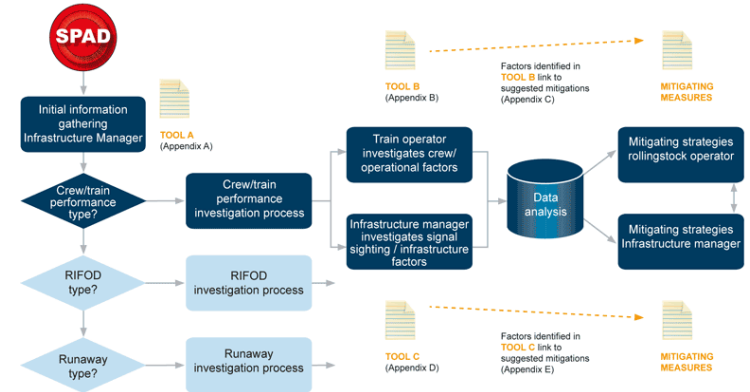
- NSW, SA, NT, Tasmania initially
- approx 40% of track and train km nationally
- moving towards a national picture
- some jurisdiction-based summaries proposed



Annual Safety Report Challenges



- ONRSR is in transition
- ONRSR commenced January 2013
- still building capability (systems and people)
- legacy of disparate data collection & reporting systems
- national reporting framework started 2008-09
 - specifying information to be provided by RTOs
 - classification scheme (incident types, injury etc.)

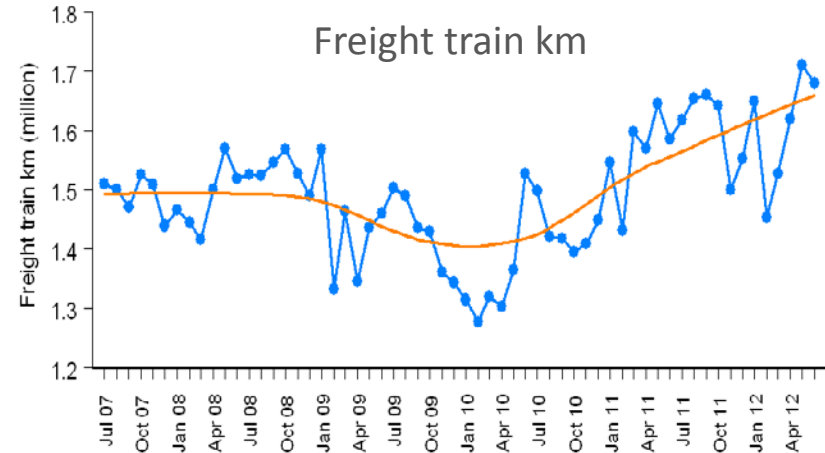


- data still sparse and there remain definitional inconsistencies between jurisdictions
- some important precursors not clearly defined eg. misalignment, degraded working
- estimation of risk hampered by inconsistent consequence data eg. 'serious' injury
- some regulatory risk models exist but vary in method, coverage, detail and relevance

Content Outline



- Key sections proposed
 - Introduction: the new Regulator
 - Industry Overview: NSW, NT, SA, Tasmania
 - General 'risk picture': safety risks in context
 - Identification of (focus on) key risks
 - Safety performance 2012-13 (key areas)
 - Analysis of key accident precursors
- First report sets new direction
 - *move away* from blanket reporting of categories under national reporting scheme
 - *move towards* identification and analysis of risks relevant to Australian railways
- However, some of the information we need does not exist so we are initially reliant on a mix of Australian information and information from other sources



Content – General Safety Picture

- Catalogue hazardous events of relevance to Australian rail via:

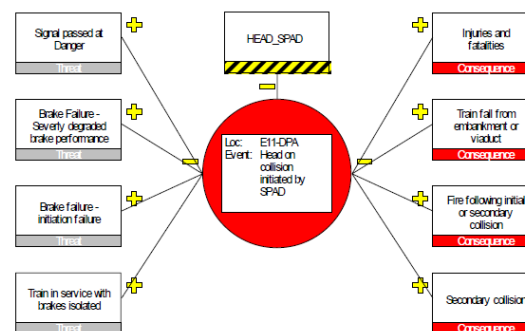
- notifiable occurrences
- local risk registers
- overseas research
- existing regulatory risk models

- Brief summary of all risks

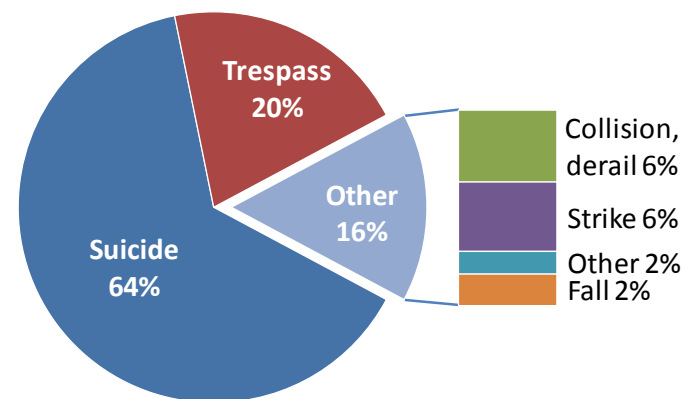
- High Frequency-Low Consequence : observed data
- Low Frequency-High Consequence : observed and (where we have it) estimated data

- Shortlist and focus on key risks:

- remainder of analysis to focus on priority events
- consistent with ONRSR's Regulatory Approach
- supported by preliminary / summary analysis of overall risk

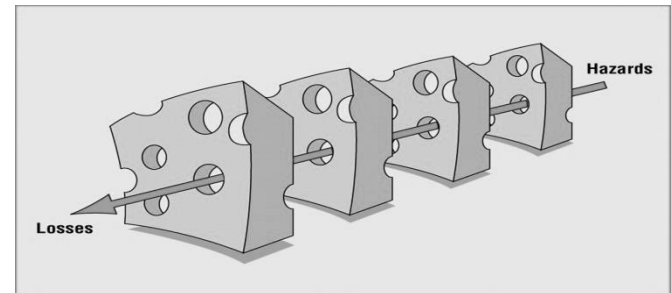


Fatalities (10 year)



Content – Accident Precursors

- Identification of important precursors to train accident and related risks:
 - previous reports tended to focus on precursors with available data (in OCG1 and reliably captured)
 - these are not necessarily the ones that contribute significantly to train accident risk
- Necessary first steps:
 - What are the most significant train accidents (high consequence) where precursor monitoring is important?
 - What are the precursors of these train accidents?
- Some precursors not previously reported may be highlighted as important
- Some previously reported precursors may be excluded eg. faulty train door; brake irregularity



- ONRSR has responsibility to enhance consistency and improve utility of rail safety data to inform decisions on safety
- RISSB is embarking on national rail safety database, referred to as the SISAR (Safety Information System for Australian Rail)
- ONRSR is very supportive of:
 - development of a safety risk model tailored for use by the Australian rail industry
 - a national database that is part of a broader data collection and reporting framework aligned to risk-based analysis
- The ONRSR's ASR and the systems and processes that underpin it will evolve in the future

Questions?

Feedback and Suggestions Welcome:

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