



Terrestrial Trunked Radio -
The global standard for professional mobile radio communications



Australasian TETRA Forum

The Next Wireless Wave: Going Digital from a Consulting Perspective

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INTRODUCTION

Approach

- A digital radio project approach

Case Studies

- Selecting a digital technology platform
 - Case Study 1: Coal Power Plant
 - Case Study 2: Open Cut Mine



Starting a Digital Radio Project

- Take a consulting perspective
- Start with a blank sheet of paper
- Avoid replicating your analogue solution
 - Be faithful to your *current* business requirements
 - Exploit the new capabilities of digital technology



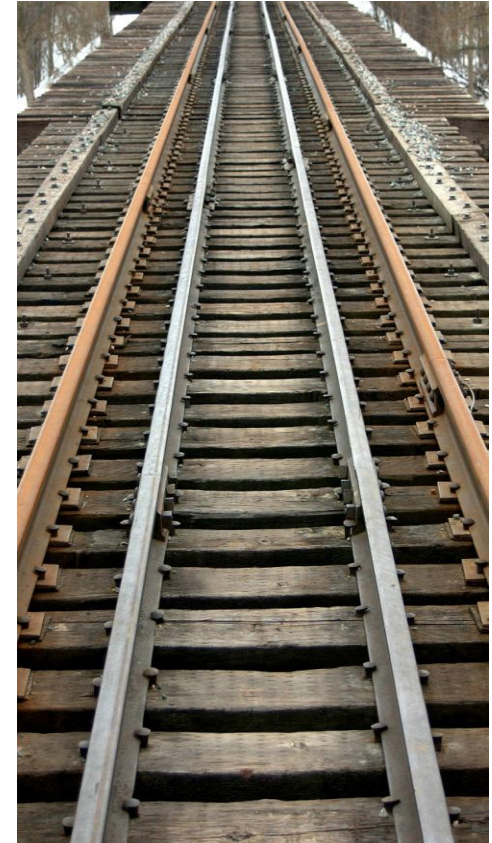
Selecting a Digital Radio Platform

- Determining Factors
 - Frequency
 - Migration
 - Environment
 - Organisation's maturity
 - Functional requirements



Selecting a Digital Radio Platform

- Review Processes
 - Educate the customer
 - Confirm and question business and functional requirements
 - Document Communication flows
 - What's critical - **SAFETY** traffic
 - Access to information – what's critical
 - Who needs to hear – operational awareness
 - Analogue limitations
 - Identify logical functional work groups
 - Question historical behaviour
 - Call out biased or passionate behaviour



Case Study #1: Coal Power Plant

- The Problem
 - Had multiple solutions
 - Required consolidation
- The Solution
 - Site audit
 - Business cases
 - Proof-of-concept
- The Outcome
 - Increased comfort in TETRA as the solution: project ongoing
 - Proved viability of unique migration



Case Study #2: Open Cut Mine

- The Problem
 - Needed to validate technology selection
- The Solution
 - Followed client's methodology to:
 - Analyse requirements
 - Engage with the market
 - Procure a solution
 - Asked the hard questions
 - Consulted the wider CSC team
- The Outcome
 - Improved safety
 - Introduced ability to monitor remotely





Selecting a Digital Technology Platform

- Do consult all stakeholders
- Do collect and analyse requirements without bias
- Do ask the 'hard questions'
- Don't inadvertently replicate analogue systems or processes
- Don't focus on the technology at the expense of the organisation; consider:
 - Maturity
 - Change management



Use the introduction of a Digital Radio platform as the catalyst to identify and modify any inherent operational practices that may be tied to the current capabilities of your analogue radio platform.



Thank You.

