Shaping the Future of the Railway
Phil Ellingworth, Chief Engineer
Metro Trains Melbourne
A History of Dedication and Innovation

Engine painters at Williamstown Workshops 1883

Railway staff near Colac in regional Victoria 1913
The Spine of Melbourne

- Melbourne is the fastest growing capital city in Australia
- Every week 1800 new residents come to live in our city
- 7 out 10 fastest growing regions are in Greater Melbourne
- 5 million and growing
- Rail patronage has soared over the last decade
- The railway will do the heavy lifting into the future
Here at Metro...

- Operate more than 2,500 services per day
- Service reliability & delivery is critical
- Metro has over 5500 staff working in more than 1200 roles
- We’ve identified more than 220 distinct careers at Metro
- There’s over 70 different roles in the engineering space alone
- Metro will be an integral player in the delivery of the biggest infrastructure works program in the history of Victoria
Balancing Delivery and Assurance

MTM as delivery partner

- Provision of technical resources
- Modifications to existing infrastructure
- Coordination of works across the portfolio
- Managing access
- Modifying our control systems

MTM as Chief Engineer

- Responsible for ensuring our accreditation under the rail safety national law is not compromised – SFAIRP Basis
- Review & acceptance of design
- Technical assurance of the system
- Authorising configuration change
- Standards setting
- Advisory services
50 Level Crossing Removals

$5-6 billion

50 level crossings to be removed over 2 full terms of government

A huge program of works with estimated investment to be approximately $5-6 billion
Cranbourne - Pakenham Rail Upgrade Project

$2.5 billion

The Cranbourne-Pakenham Line upgrade will deliver more services:

• 65 high-capacity trains
• 9 level crossing removals
• 5 stations to be rebuilt
• Power and signalling upgrades
• New train depot at Pakenham East
• Line capacity boosted by 42%
• Extra 11,000 customers in AM peak
Line Extension to Mernda & Hurstbridge Line Upgrade

$600 million (Complete 2018)
The South Morang line has been extended to Mernda, catering for the significant population growth in Melbourne’s north.

$150 million (Complete 2018)
Duplication from Heidelberg to Rosanna and other supporting upgrades on the Hurstbridge line.
Melbourne Metro Rail Project

$11 billion

• The Melbourne Metro Rail Project will double capacity through Network core:
• 2 x 9km rail tunnels running from South Kensington to South Yarra
• New underground stations at Arden, Parkville, CBD Nth, CBD Sth, Domain
• Train/tram interchanges to be built at Parkville and Domain
High Capacity Trains
High Capacity Signalling
Massive Transformation & Opportunity

MTM graduate program – strong & highly competed

Creation of railway engineers

Our partners are growing rapidly too

There has never been a more exciting time to be in rail

Each a major project
Collectively a mega program
Thank You

METRO