



## PARKVILLE COMMUNITY REFERENCE GROUP

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13 OCTOBER 2017





## FREEING UP MELBOURNE'S BIGGEST BOTTLENECK

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**James Tonkin**, Director  
Communications & Stakeholder Relations  
Melbourne Metro Rail Authority

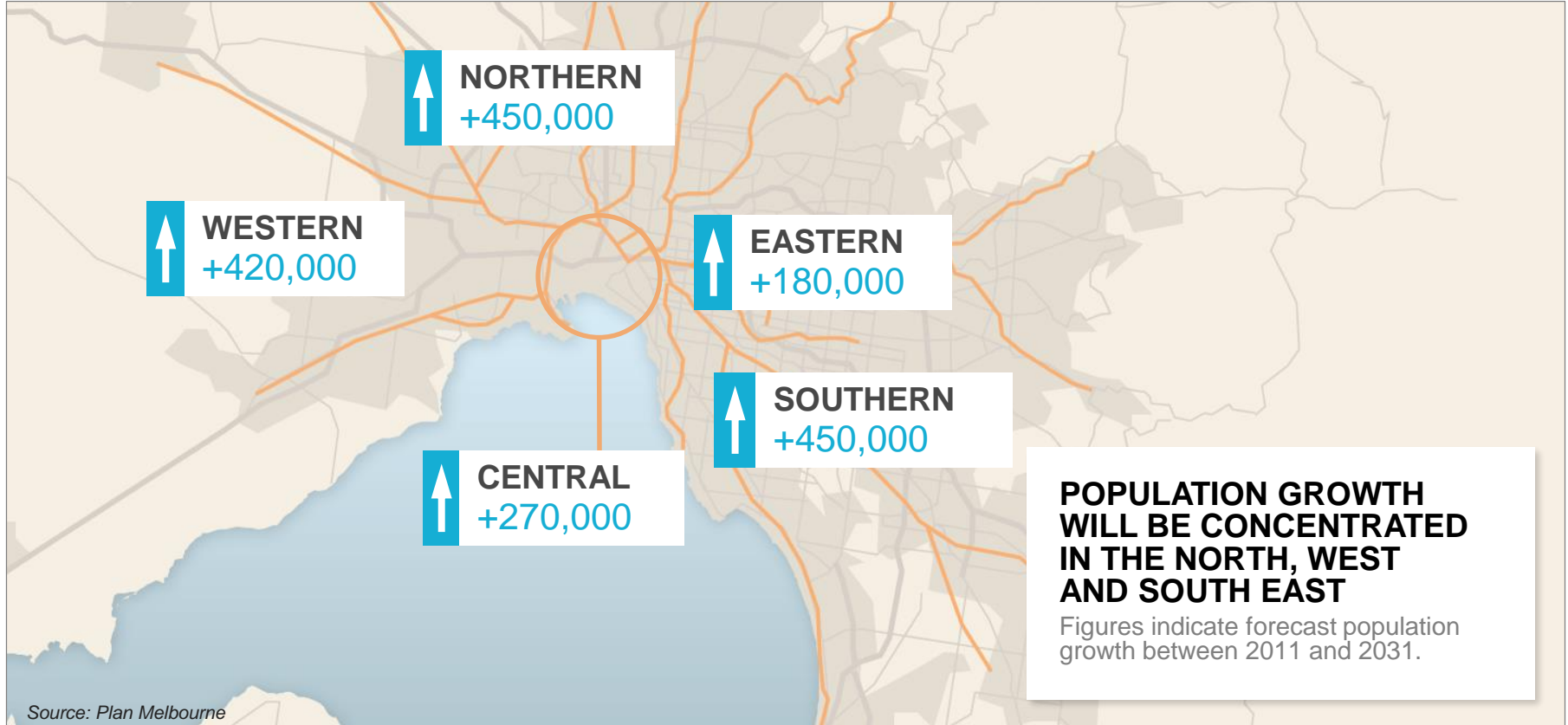




# MELBOURNE'S CHALLENGES

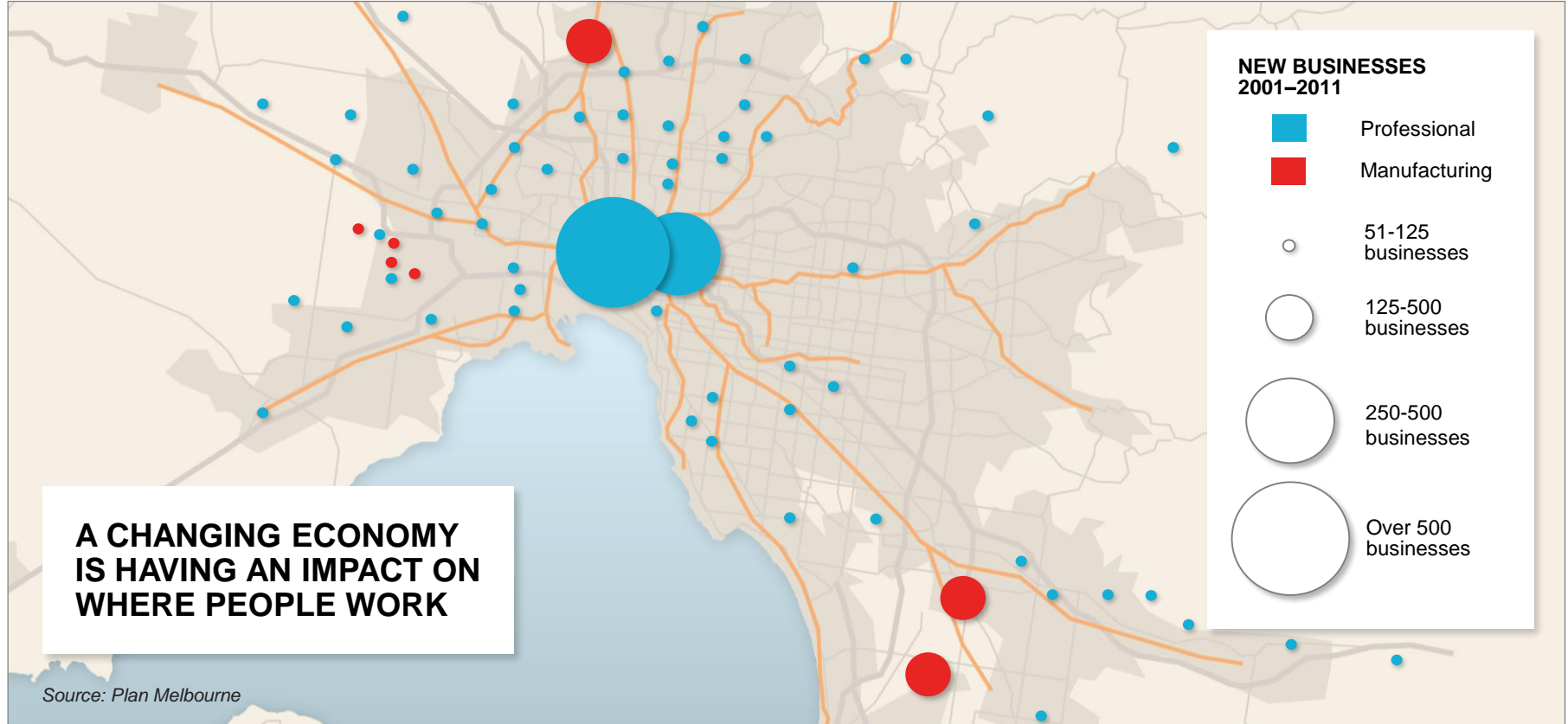


# POPULATION GROWTH





# NEW BUSINESS GROWTH



# A GLOBAL TREND



Current rail tunnel projects around the world

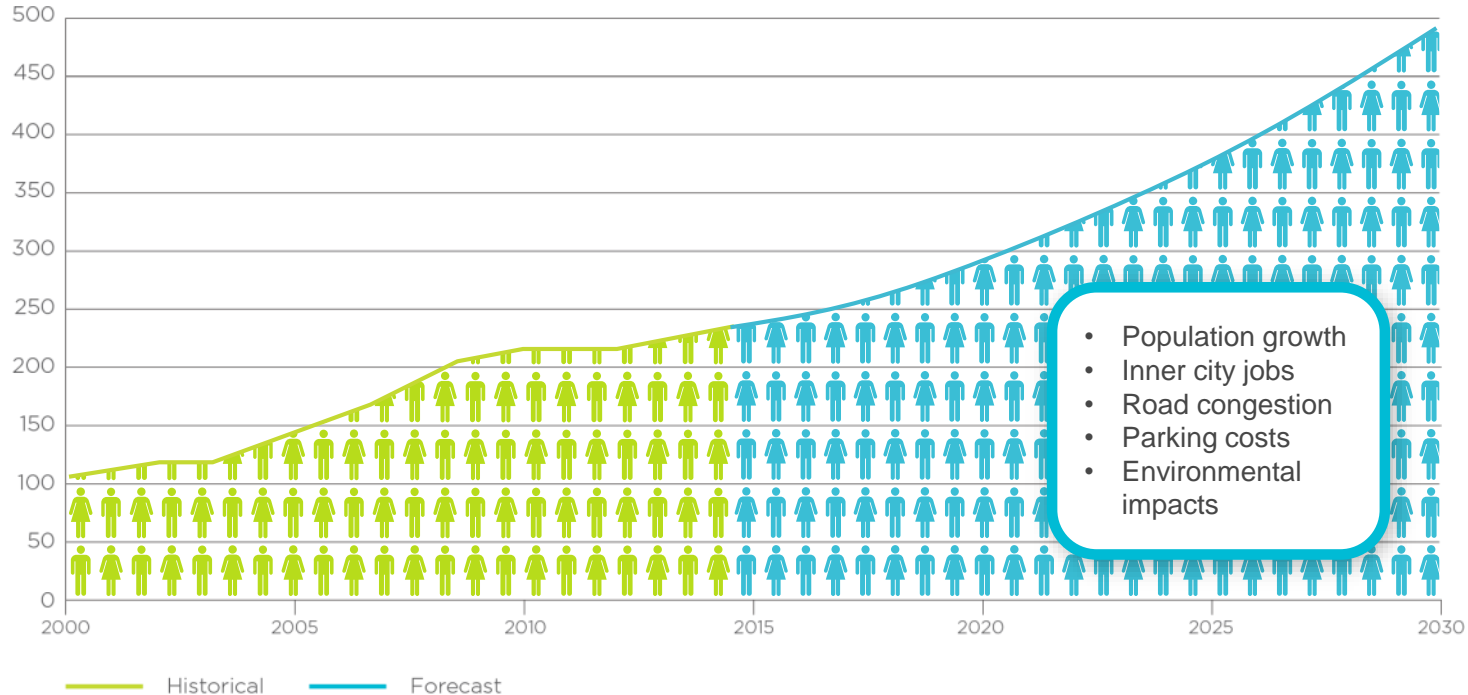


# MELBOURNE'S RAIL NETWORK

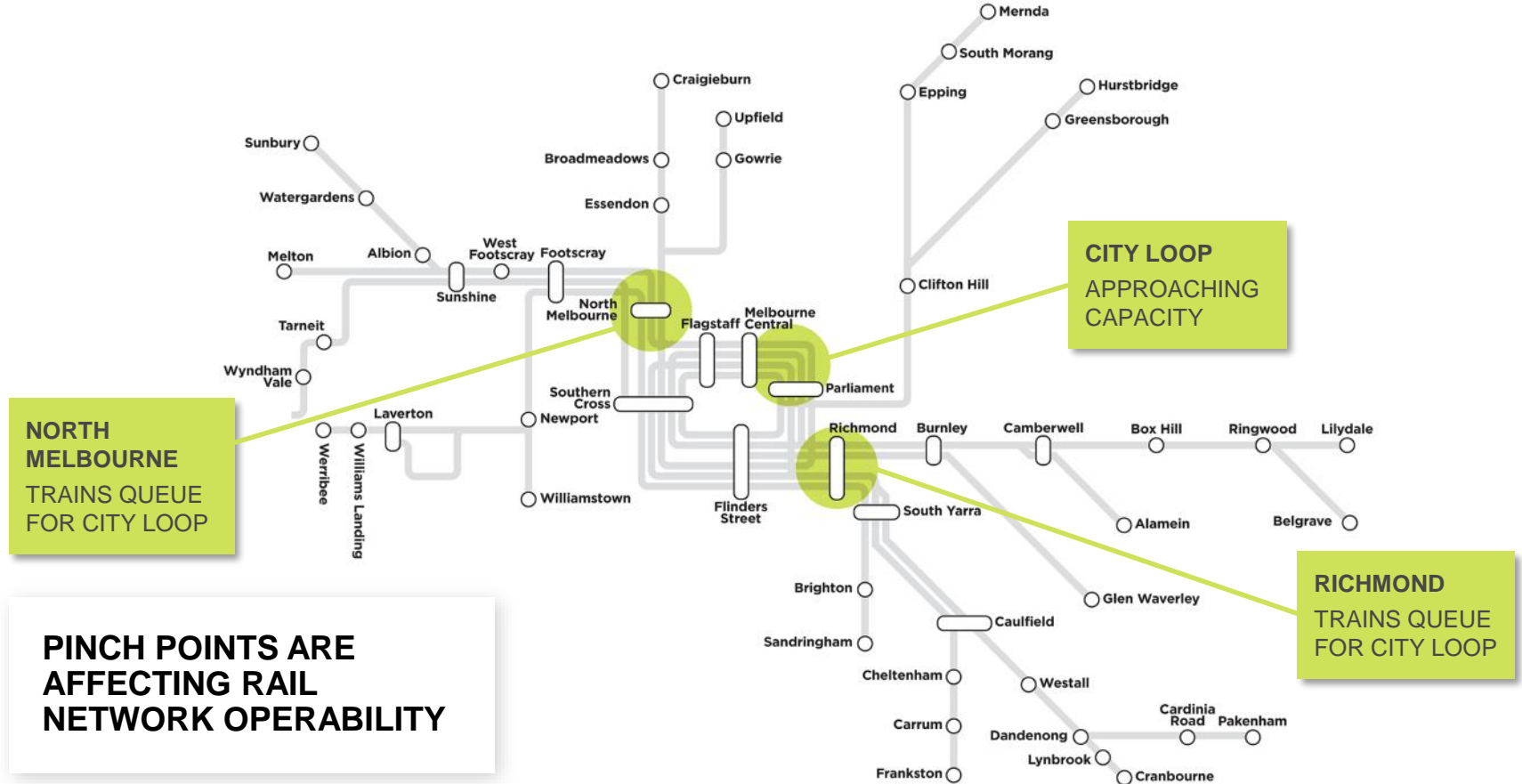


# FUTURE RAIL PATRONAGE

Annual patronage millions



# RAIL NETWORK PINCH POINTS



# TRAM PINCH POINTS





# METRO TUNNEL PROJECT





Western Portal

South Kensington

Arden

Parkville

North Melbourne

CBD North

Melbourne Central

Flagstaff

Parliament

CBD South

Southern Cross

Flinders Street

Richmond

Domain

South Yarra

Eastern Portal

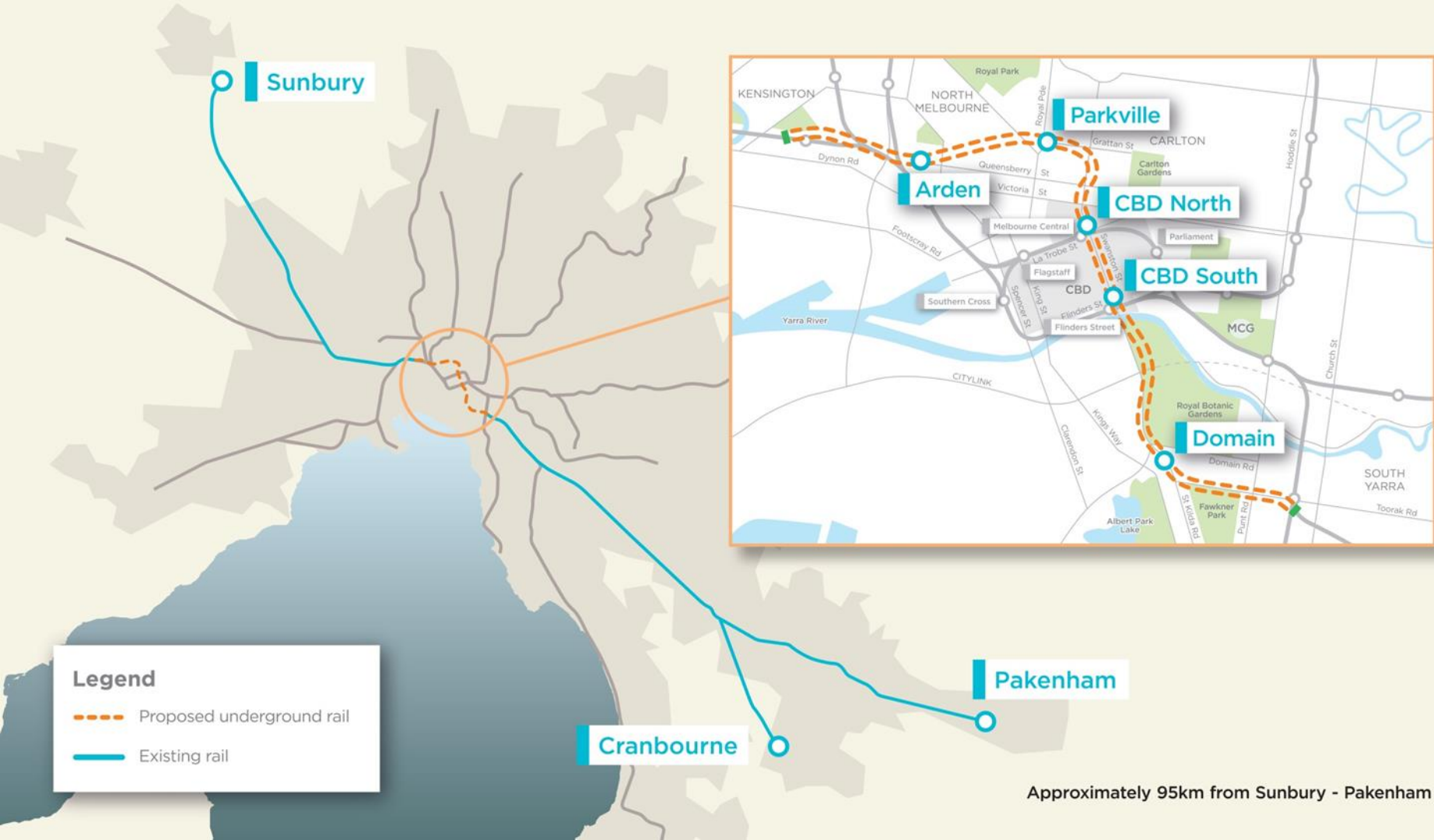
Cranbourne / Pakenham Line

Sunbury Line

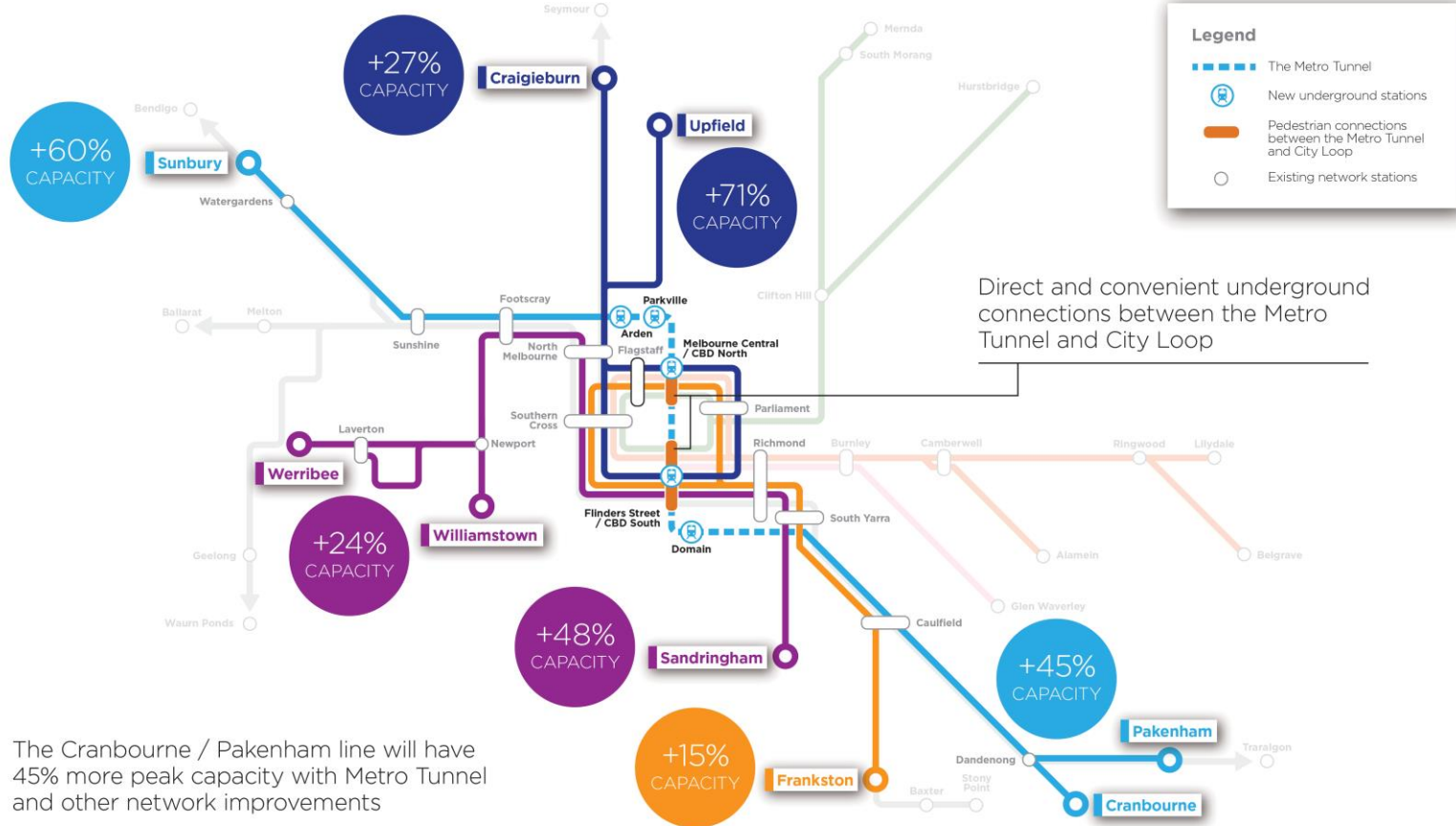




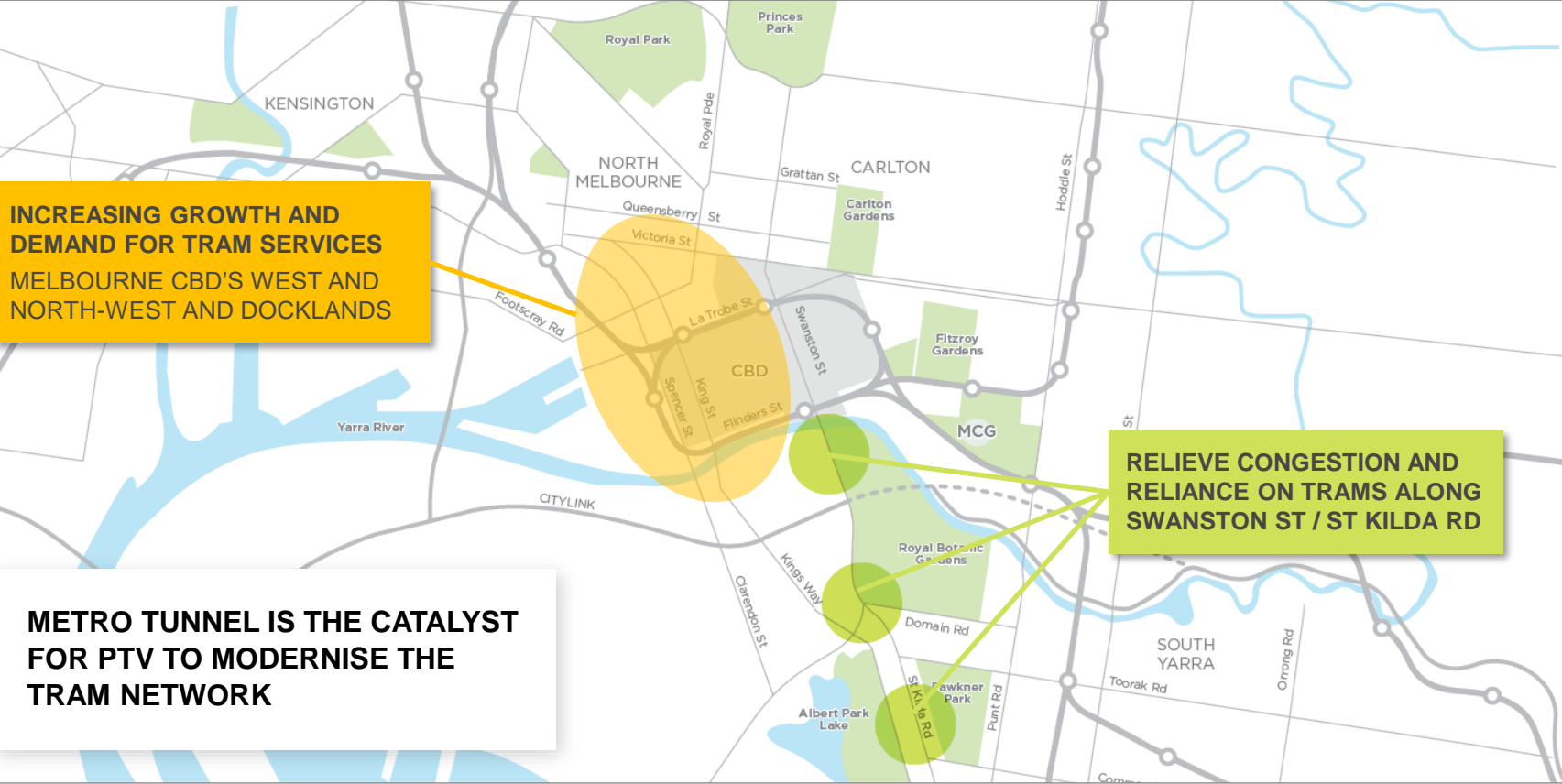




# CAPACITY BENEFITS



# TRAMS WHERE THEY ARE NEEDED



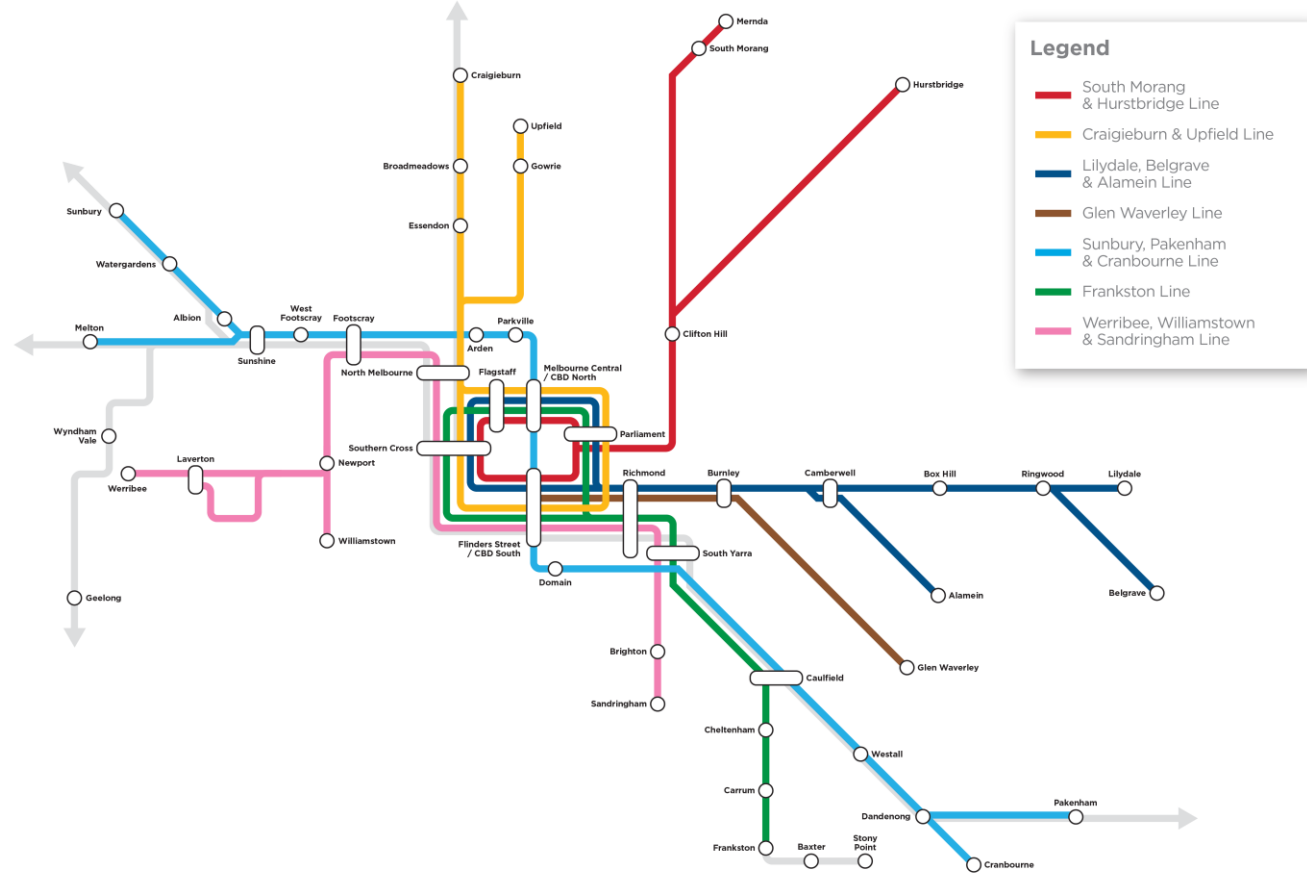
**INCREASING GROWTH AND  
DEMAND FOR TRAM SERVICES  
MELBOURNE CBD'S WEST AND  
NORTH-WEST AND DOCKLANDS**

The map shows the Melbourne tram network with various areas highlighted. An orange oval covers the CBD's west and north-west, including areas like Kensington, North Melbourne, and the CBD itself. A green oval covers the Docklands area, including the MCG and Fitzroy Gardens. A yellow oval covers the area around the CBD, including the CBD, Fitzroy Gardens, and the MCG. A blue oval covers the area around the CBD, including the CBD, Fitzroy Gardens, and the MCG. The map also shows the Yarra River, CityLink, and various streets like Victoria St, La Trobe St, and Flinders St.

**RELIEVE CONGESTION AND  
RELIANCE ON TRAMS ALONG  
SWANSTON ST / ST KILDA RD**

**METRO TUNNEL IS THE CATALYST  
FOR PTV TO MODERNISE THE  
TRAM NETWORK**

# METRO RAIL NETWORK MASTER PLAN





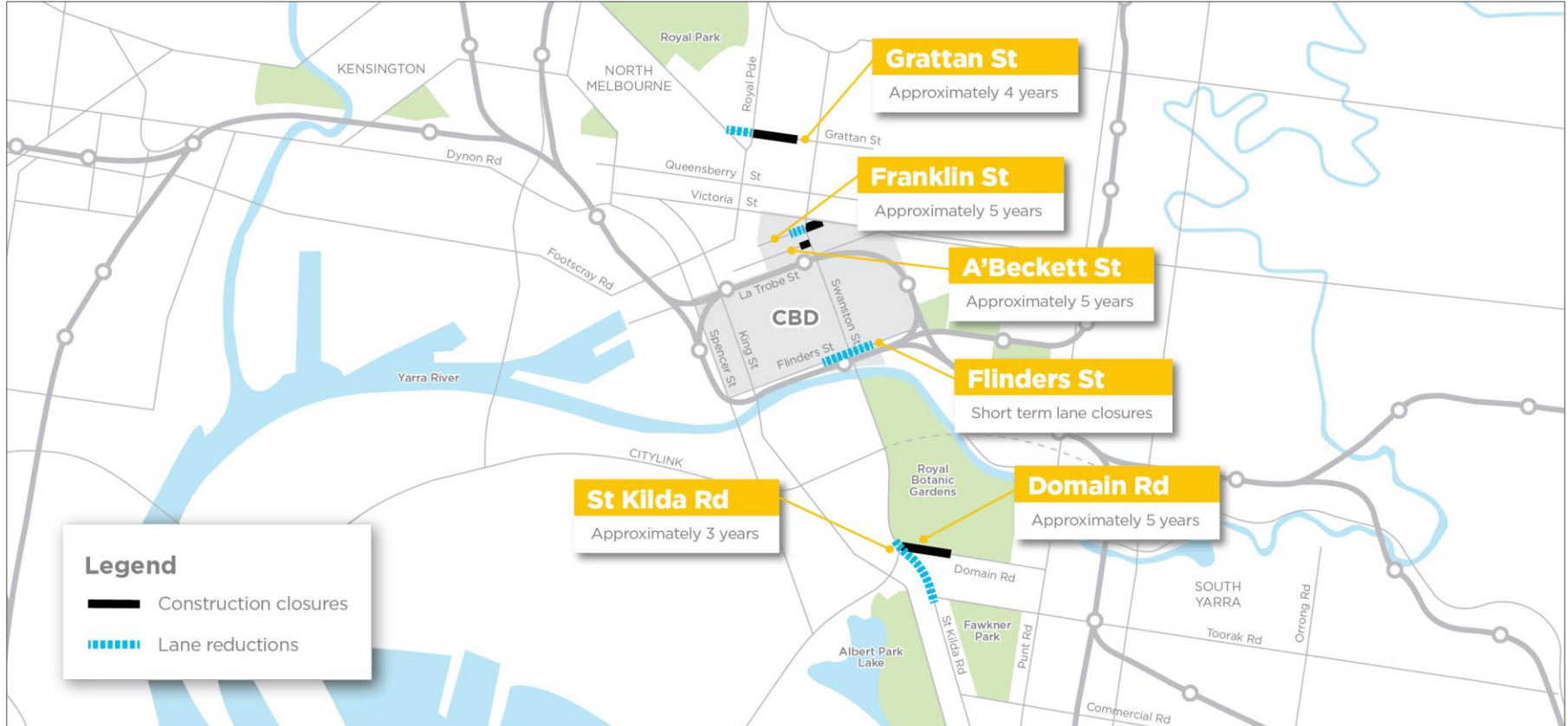
# MANAGING CONSTRUCTION

# SIMULTANEOUS CONSTRUCTION





# INDICATIVE ROAD IMPACTS

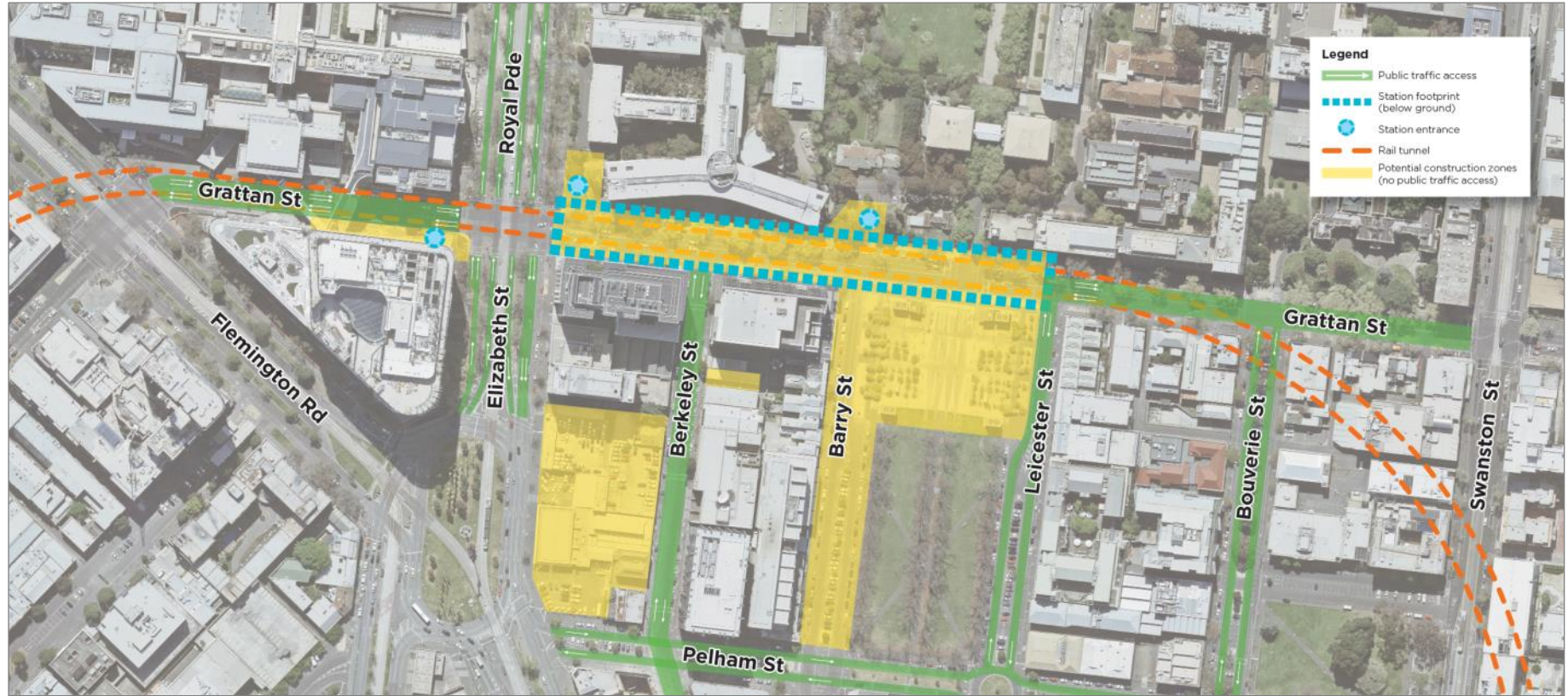


# TUNNEL ALIGNMENT





# PARKVILLE – CONSTRUCTION



**Legend**

- Public traffic access
- Station footprint (below ground)
- Station entrance
- Rail tunnel
- Potential construction zones (no public traffic access)

# UPGRADING DIVERSION ROUTES







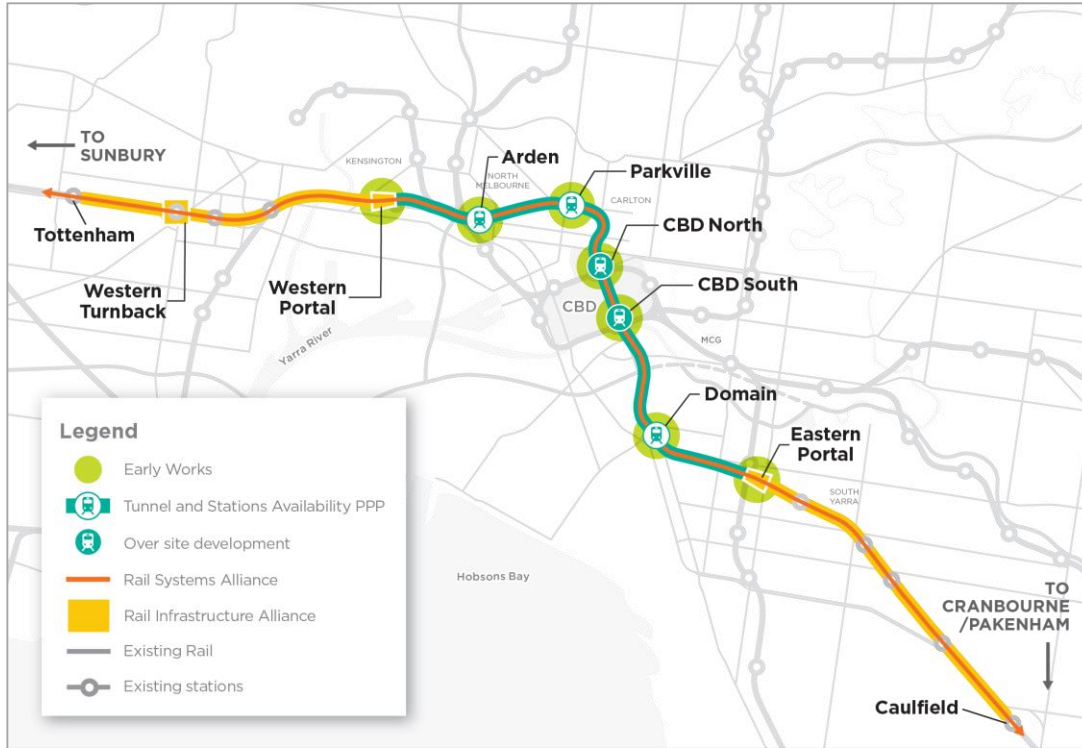
# KEEPING MELBOURNE MOVING







# PROCUREMENT



## EARLY WORKS

- Utility services relocation, demolition, CBD access shafts and other preparatory works (Managing Contractor)
- Tram diversion works (Franchisee Works)
- Construction power (Utility Service Provider)

## TUNNEL AND STATIONS (AVAILABILITY PPP)

- 9km twin tunnels and five underground stations including fit-out
- Mechanical and electrical systems
- Tunnel and stations maintenance
- Rail systems installation within the tunnel

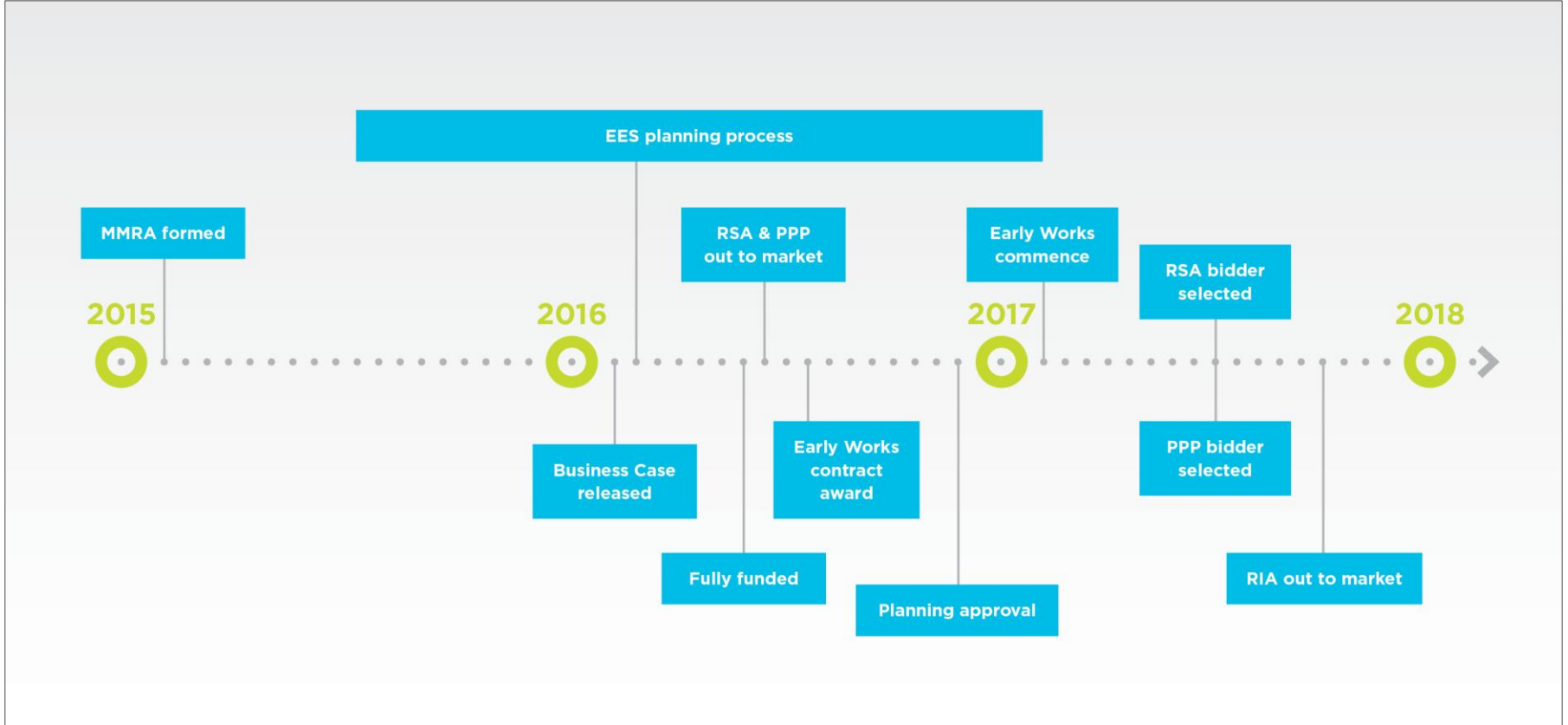
## RAIL INFRASTRUCTURE (ALLIANCE)

- Eastern and Western Portals
- Integration of portal with existing rail networks (civil track, overhead line equipment, signalling)
- Eastern and Western Turnback
- Wider network enhancements

## RAIL SYSTEMS (ALLIANCE)

- High capacity signalling
- Conventional signalling upgrades and modifications
- Communication systems
- Platform screen doors
- Train control and operational control systems
- Systems integration and end-to-end commissioning

# MILESTONES



# NEXT STEPS



**2017**

- Construction underway (e.g. site preparation, shafts)
- Property acquisition
- PPP & RSA contract award
- Road network changes



**2018**

- Development of detailed design
- Major construction on tunnels and stations
- RIA contract award



**2026**

- Target completion



**QUESTIONS?**



## JOHN HOLLAND MANAGING CONTRACTOR - EARLY WORKS

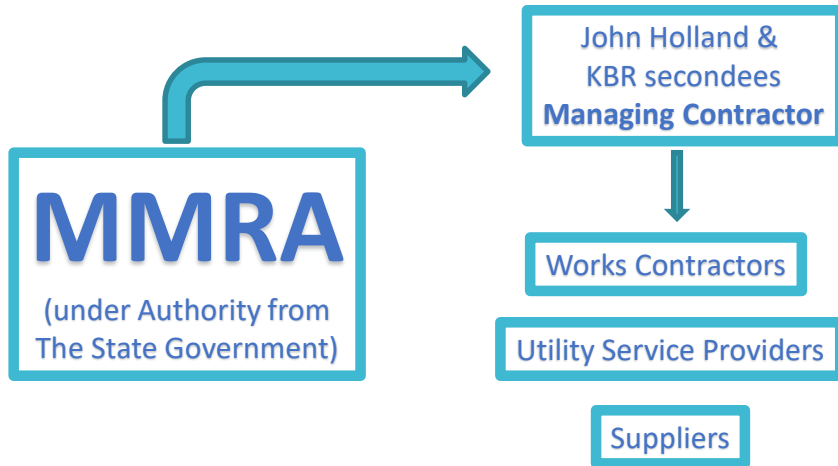
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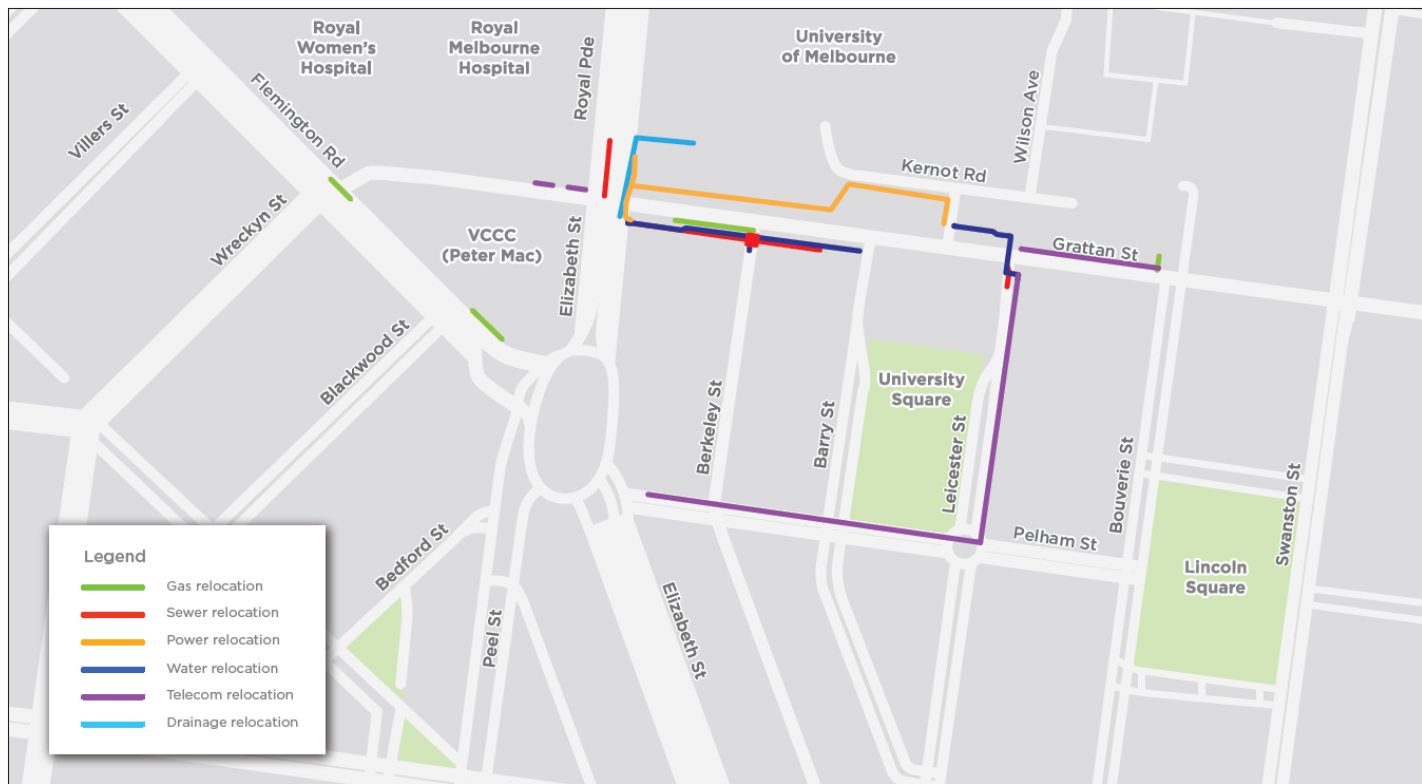
David Thek, Precinct Manager – Parkville





# MANAGING CONTRACTOR

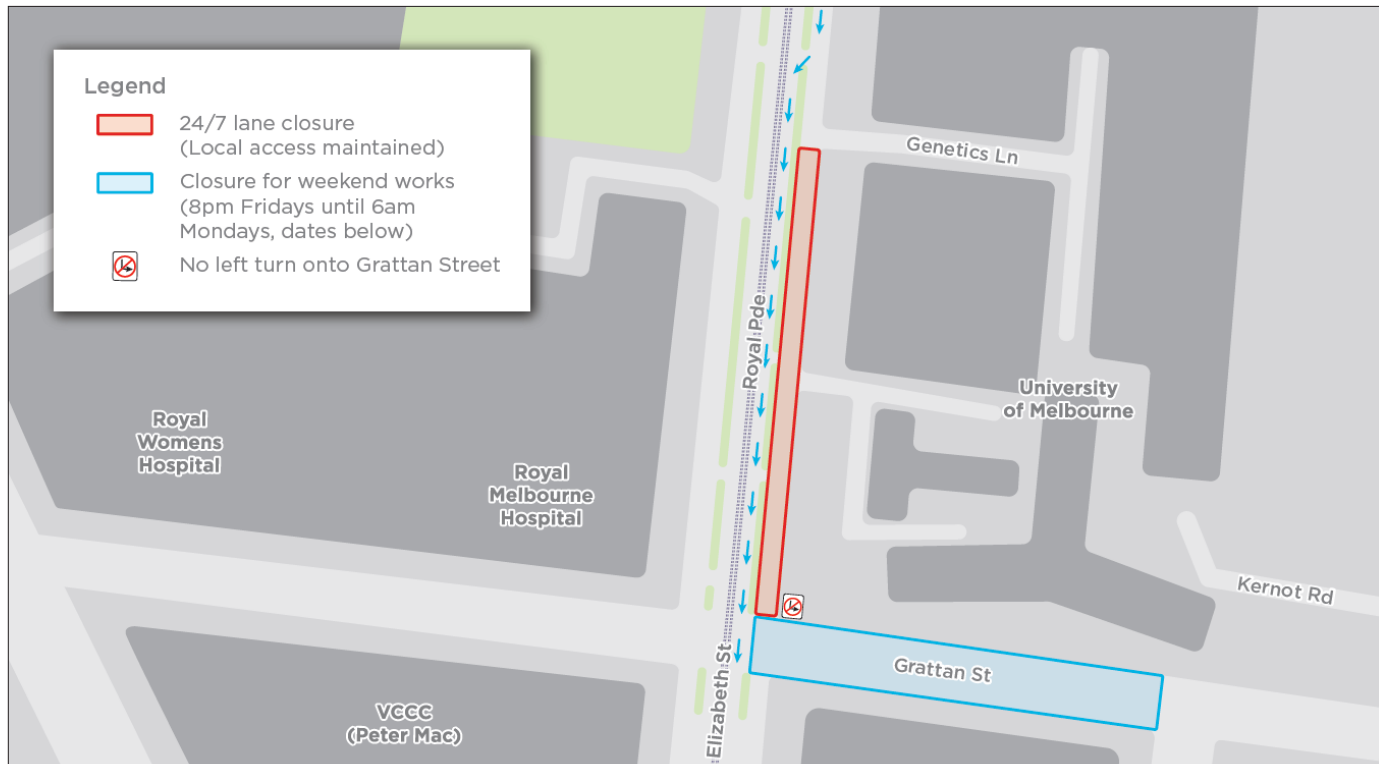




Indicative only

Construction partners:





Indicative only

Construction partners:





**QUESTIONS?**

**Make your  
mark on  
Melbourne**





Haymarket  
Wurundjeri  
Ogdenville Park Grattan  
McStationface  
Childers Square Kulin Barak  
Dja Parkville Parade Zoo Precinct  
**Parkville**  
Boonwurrung Street Hospital  
Florey Royal Face  
Uni  
**University**  
Melbourne

