



## CBD COMMUNITY REFERENCE GROUP

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22 SEPTEMBER 2017





## FREEING UP MELBOURNE'S BIGGEST BOTTLENECK

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Evan Tattersall, CEO  
Melbourne Metro Rail Authority

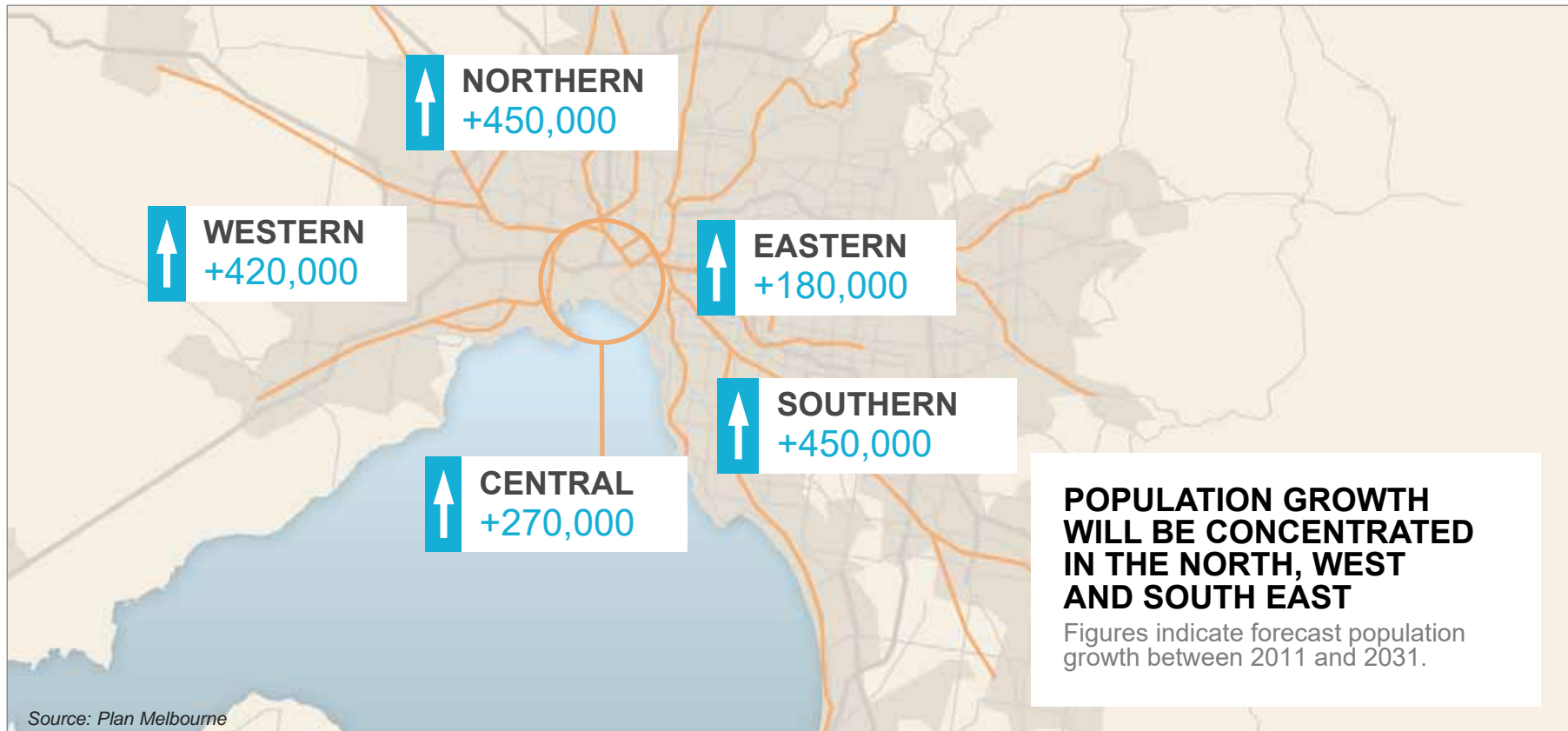


# MELBOURNE'S CHALLENGES



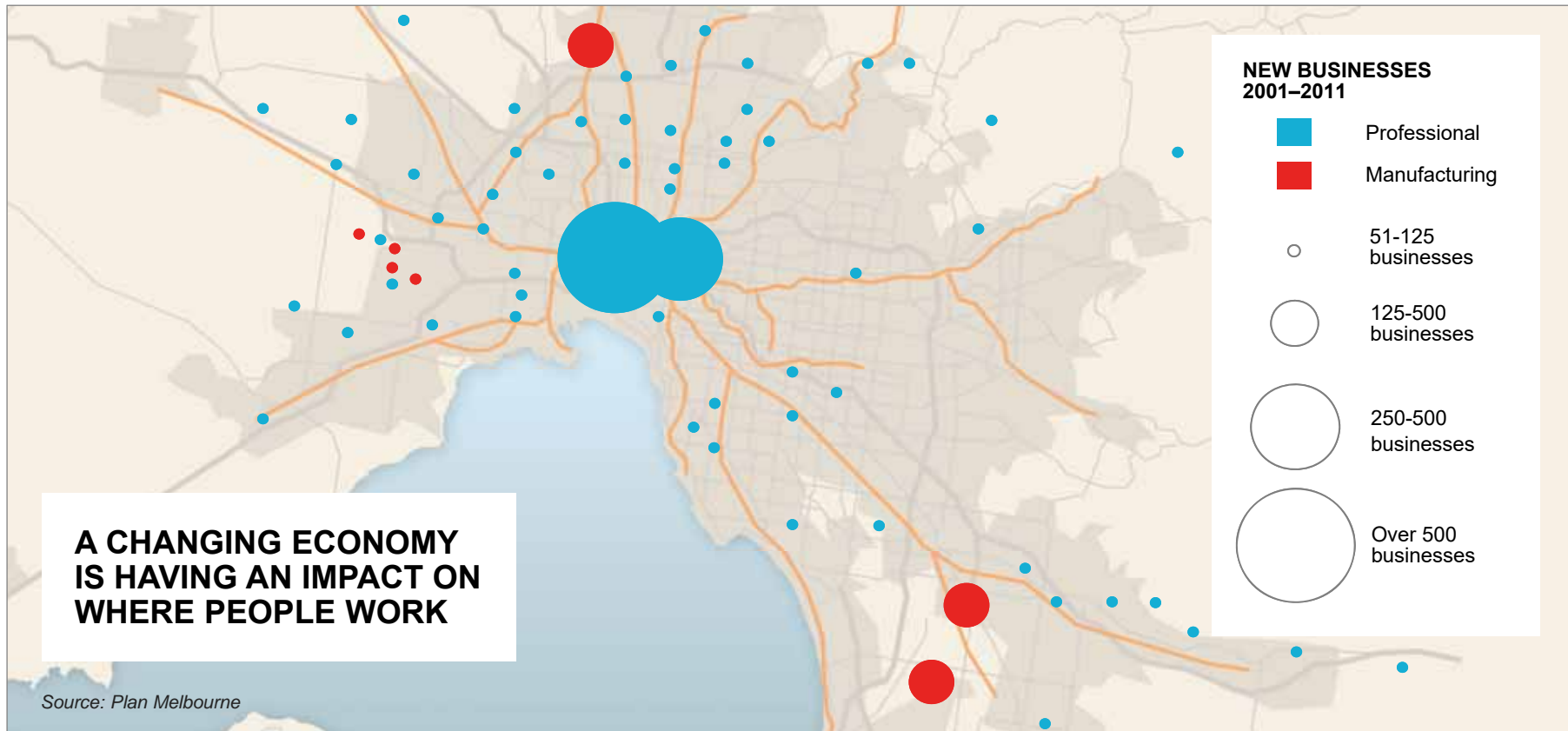


# POPULATION GROWTH





# NEW BUSINESS GROWTH





# A GLOBAL TREND



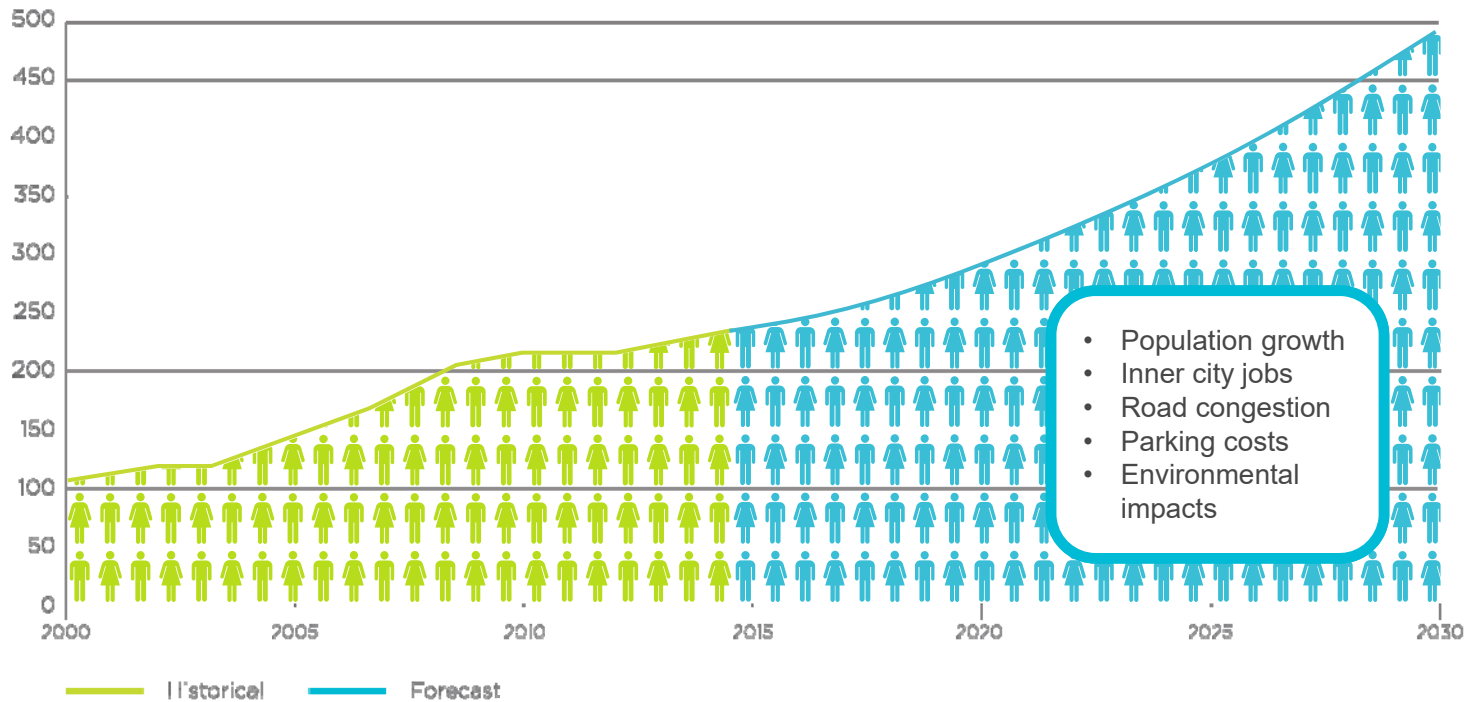
# MELBOURNE'S RAIL NETWORK





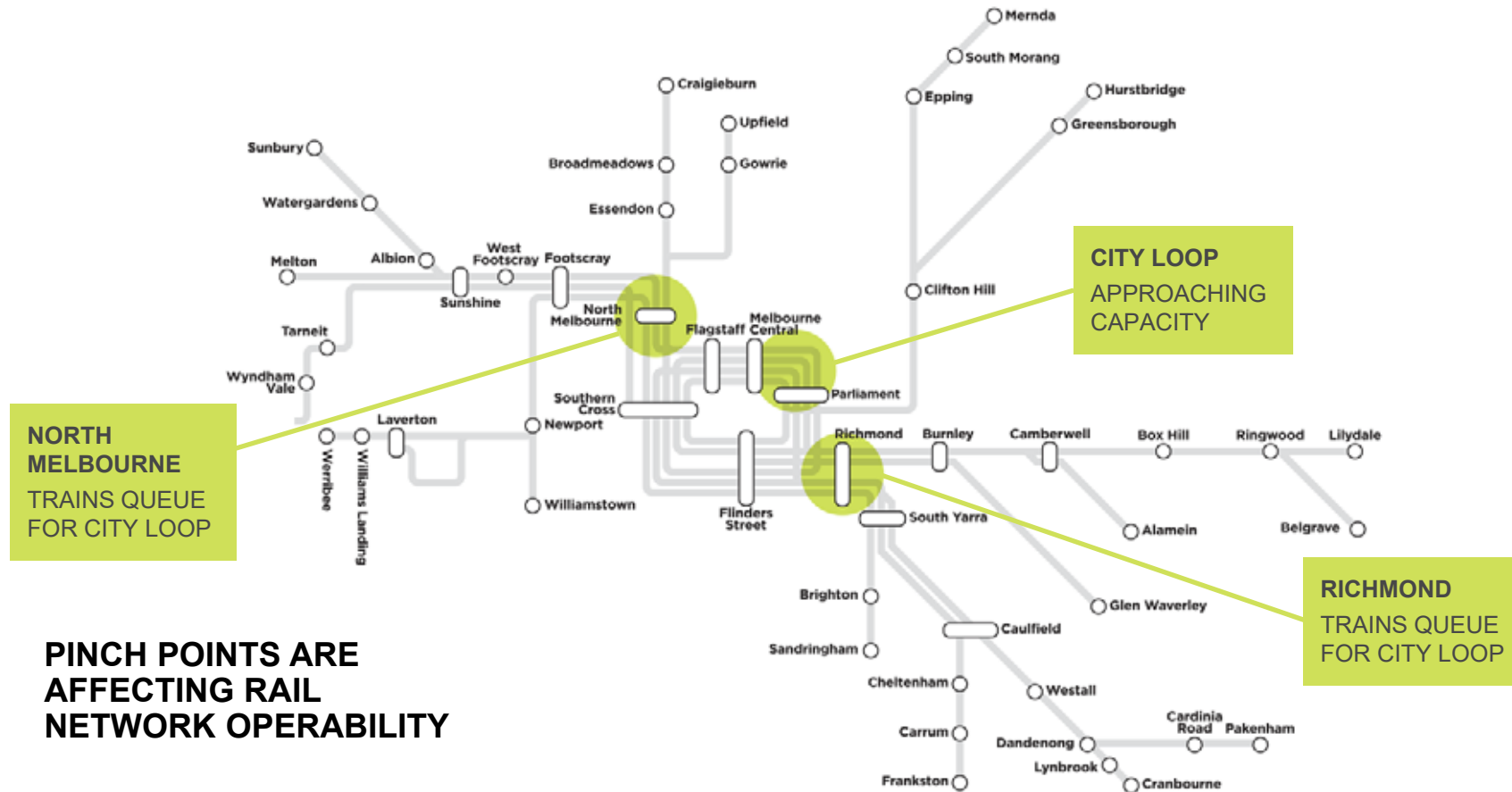
# FUTURE RAIL PATRONAGE

Annual patronage millions





# RAIL NETWORK PINCH POINTS



**PINCH POINTS ARE AFFECTING RAIL NETWORK OPERABILITY**



# TRAM PINCH POINTS



**PINCH POINTS ARE AFFECTING CBD TRANSPORT OPERABILITY**

# METRO TUNNEL PROJECT





Sunbury

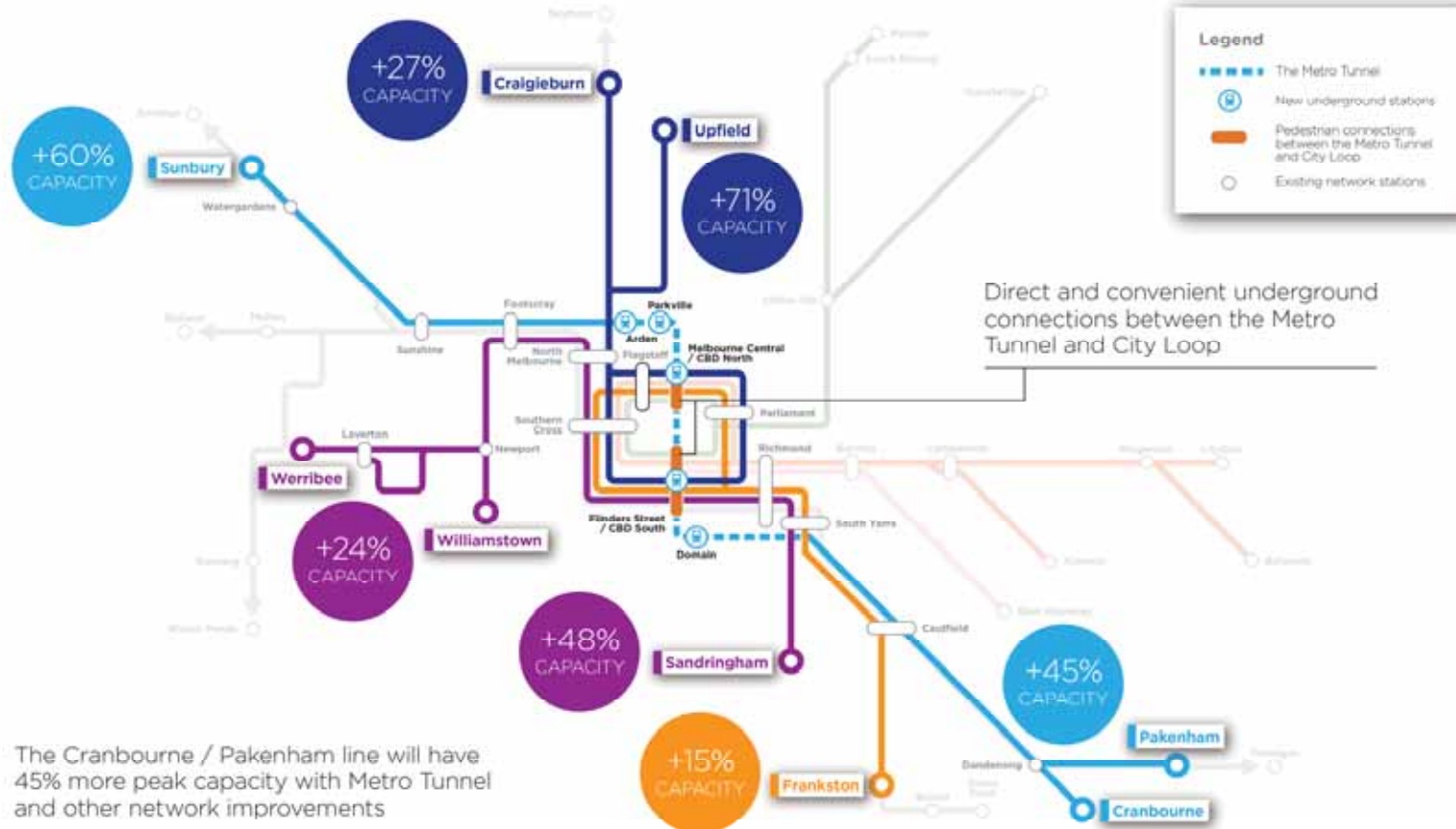
Cranbourne

Pakenham



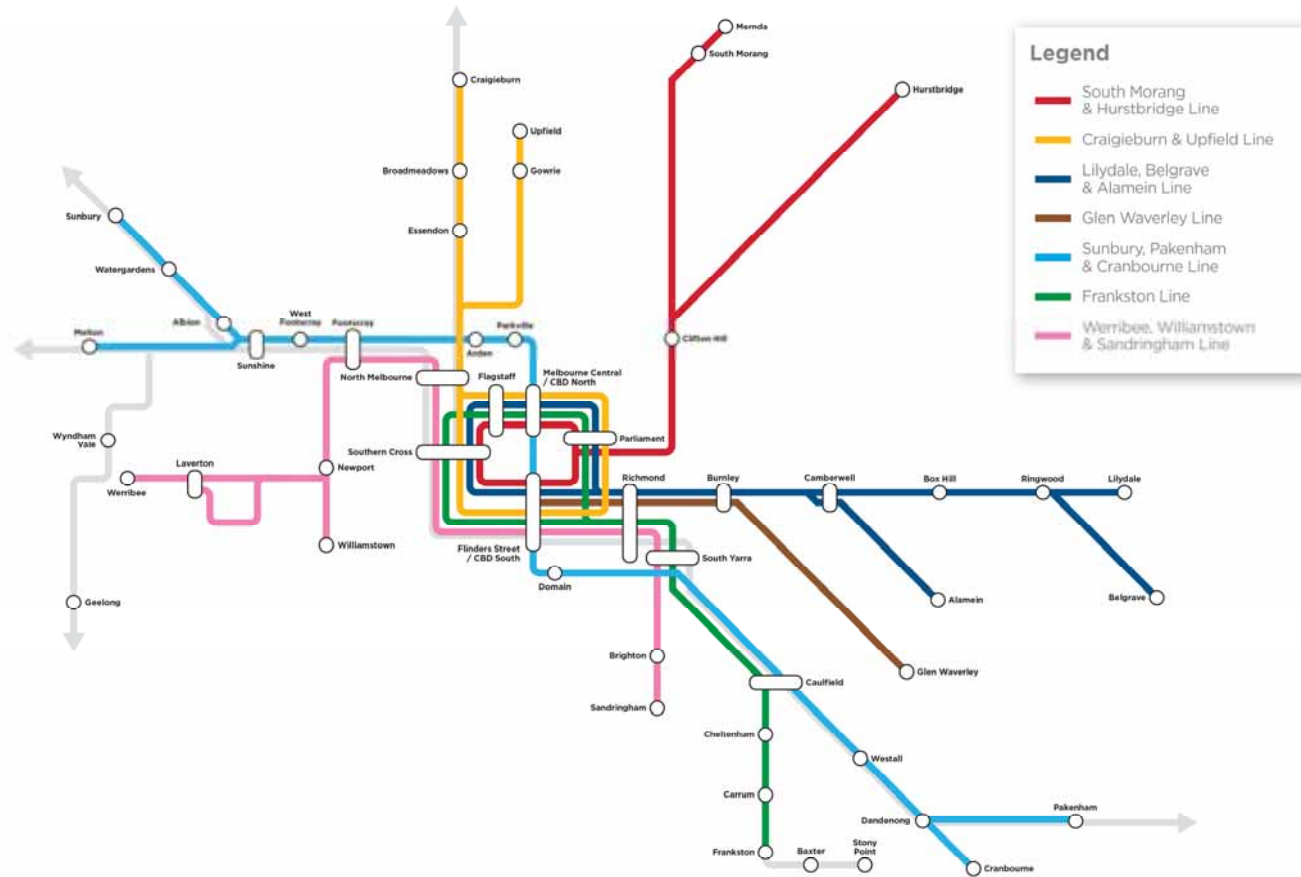


# CAPACITY BENEFITS





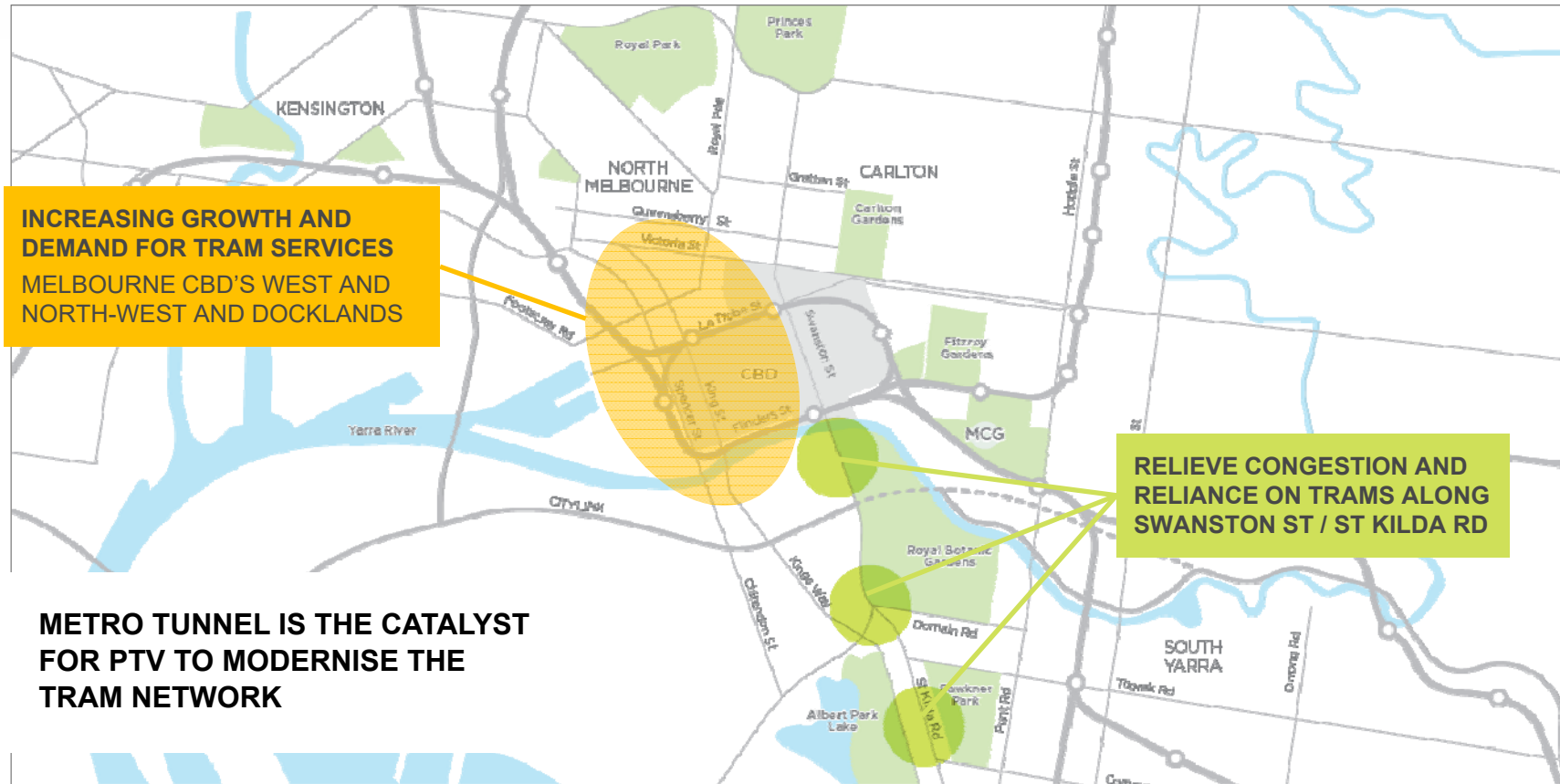
# METRO RAIL NETWORK MASTER PLAN







# TRAMS WHERE THEY ARE NEEDED





# WORK PACKAGES



## 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



**QUESTIONS?**



## JOHN HOLLAND MANAGING CONTRACTOR - EARLY WORKS

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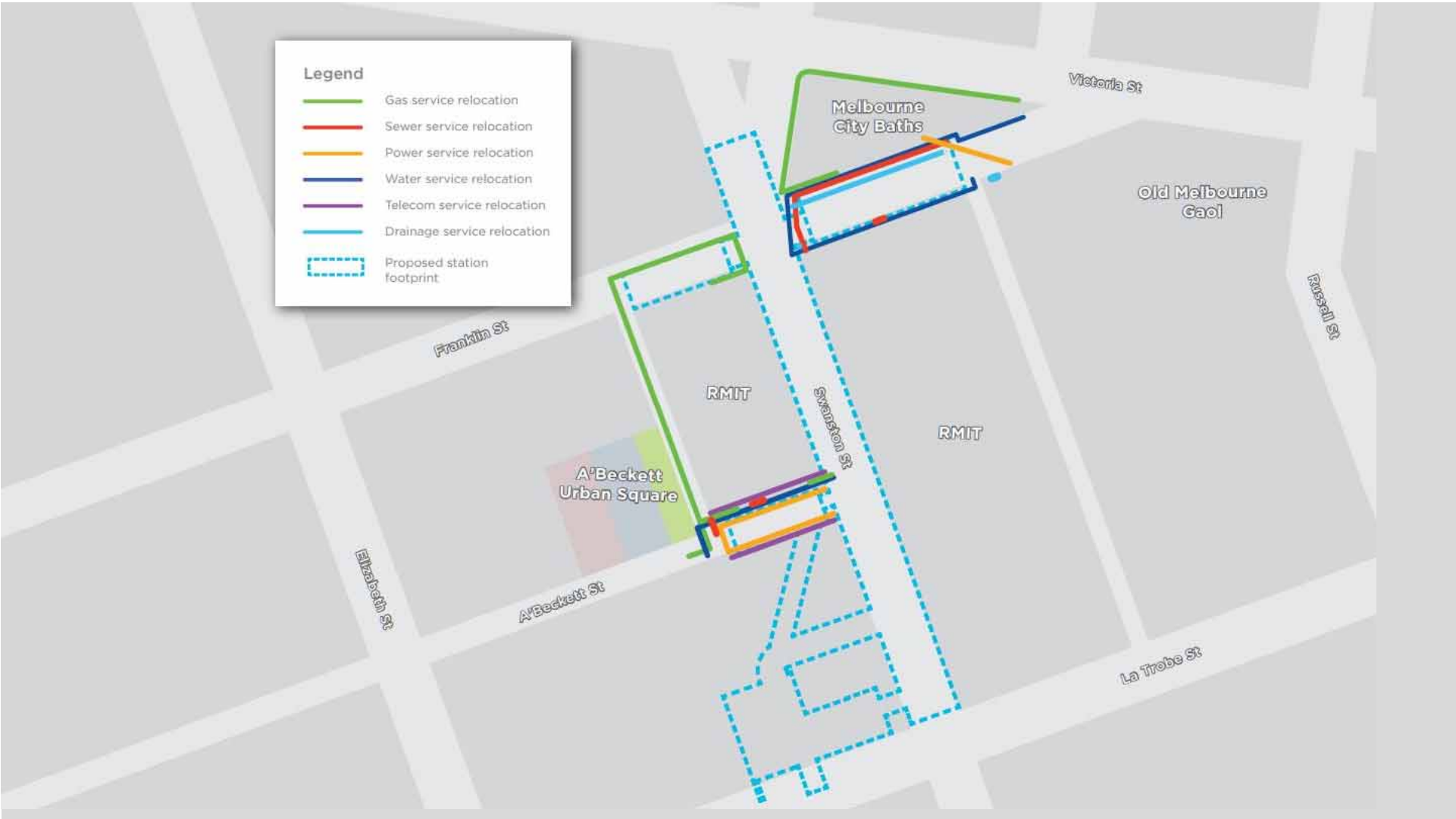
**Matt Telfer**, Precinct Manager – CBD North and South  
John Holland



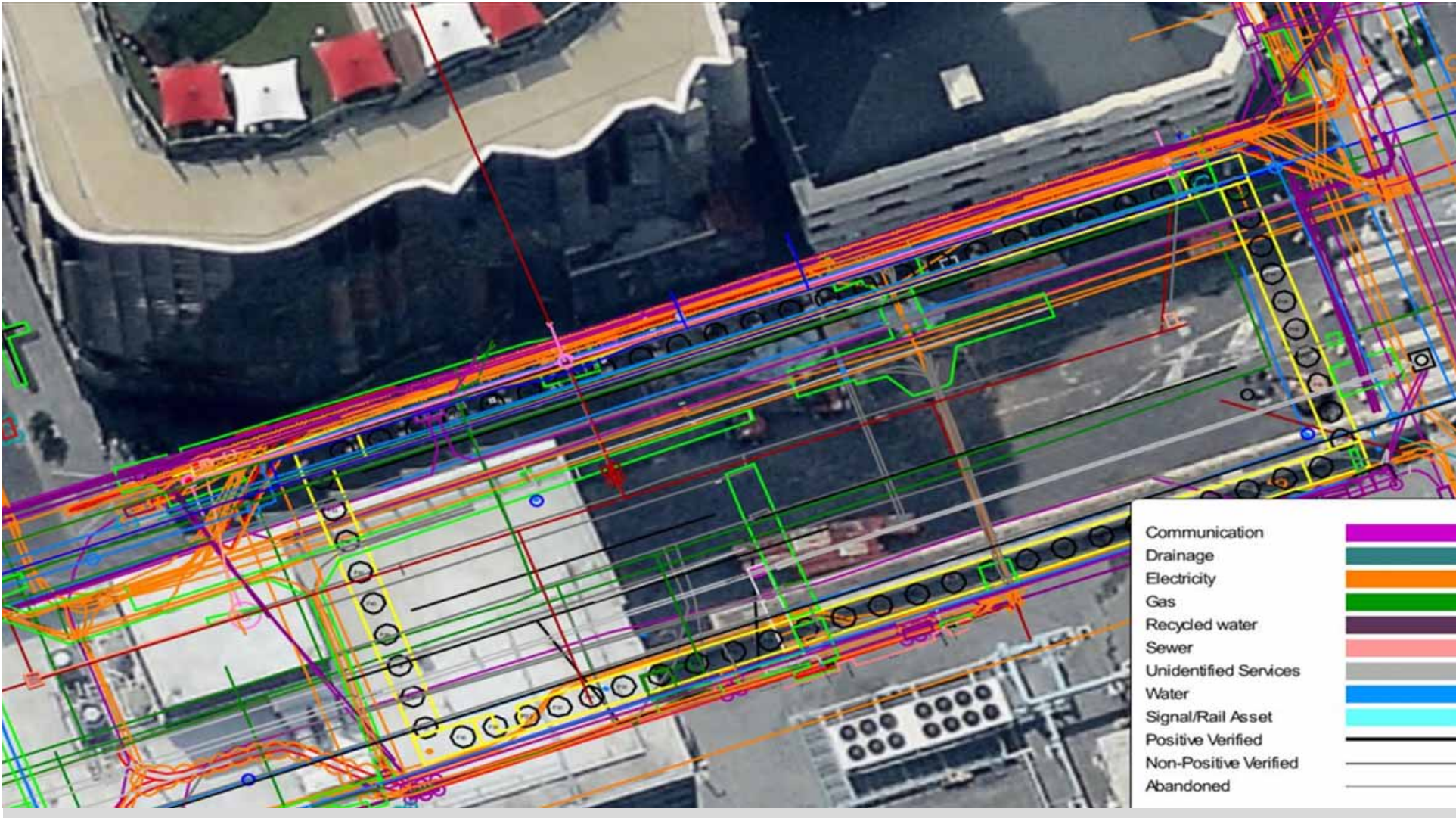


**Legend**

- Gas service relocation
- Sewer service relocation
- Power service relocation
- Water service relocation
- Telecom service relocation
- Drainage service relocation
- Proposed station footprint









Gas

Water

Public Lighting  
Power

Power

Gas

Sewer Pit

Communications

**METRO TUNNEL  
EARLY WORKS**

**SHAFT CONSTRUCTION**

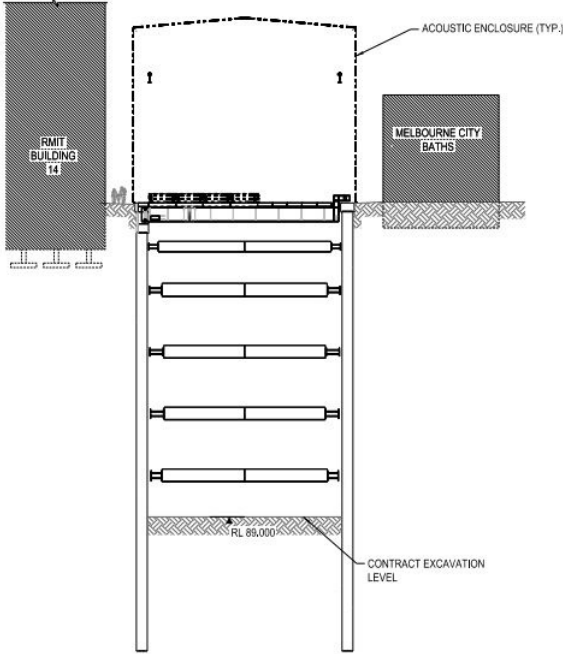


**FRANKLIN STREET SHAFT**



**A'BECKETT STREET SHAFT**

# CBD NORTH – SHAFTS



CROSS SECTION ON GRID LINE CNN+5m LOOKING WEST

**METRO TUNNEL  
EARLY WORKS**

**CITY SQUARE WORK**



**Legend**



Works within  
City Square

Collins St

Swanston St

The Westin  
Hotel

City  
Square

Flinders Ln

St Paul's  
Cathedral









**METRO TUNNEL  
EARLY WORKS**

**DEMOLITION**

# SWANSTON STREET DEMOLITION

## Legend

-  Demolition site
-  Awning and street furniture removal (footpath closure)
-  Scaffolding/pedestrian gantry location
-  Pedestrian detour (for night works only)
-  Construction vehicle movement



St Paul's  
Cathedral

Flinders St

Swanston St

Flinders

# LA TROBE STREET DEMOLITION

