

# KENSINGTON AND ARDEN COMMUNITY REFERENCE GROUP

26 OCTOBER 2017







#### FREEING UP MELBOURNE'S BIGGEST BOTTLENECK

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



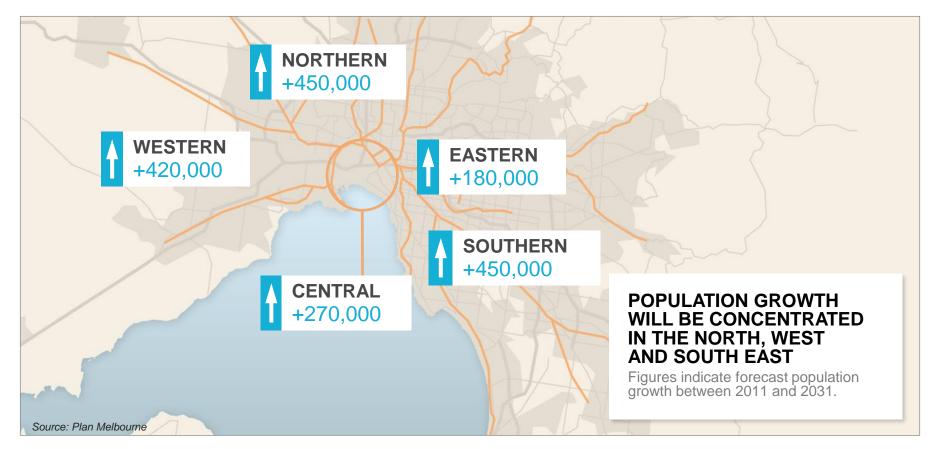


# MELBOURNE'S CHALLENGES



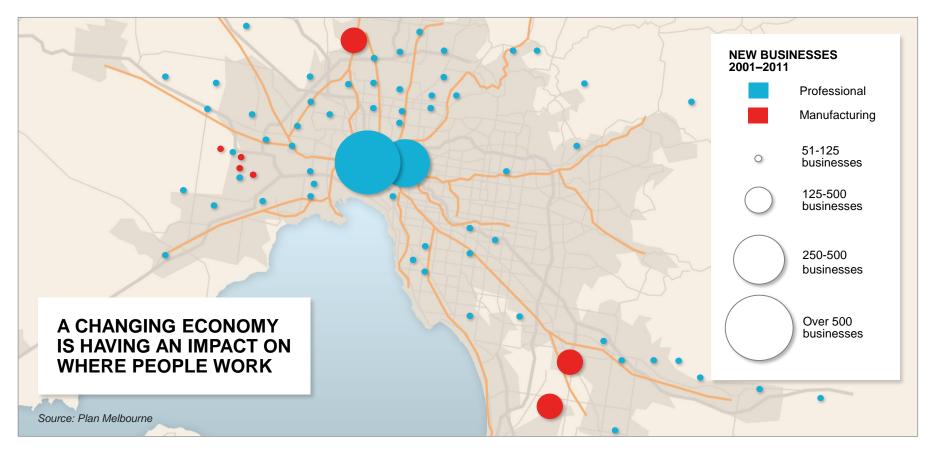


## **POPULATION GROWTH**





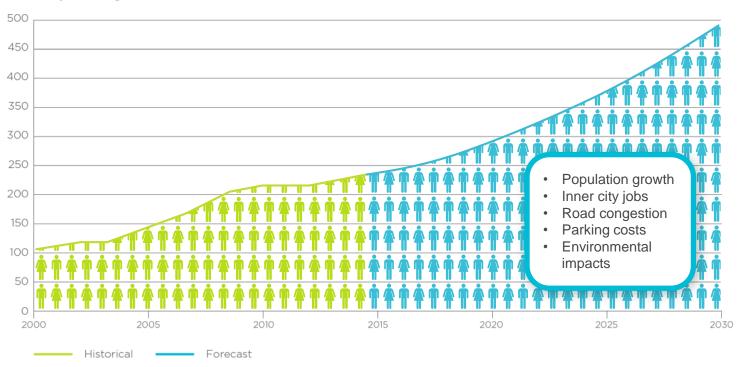
## **NEW BUSINESS GROWTH**



# MELBOURNE'S RAIL NETWORK

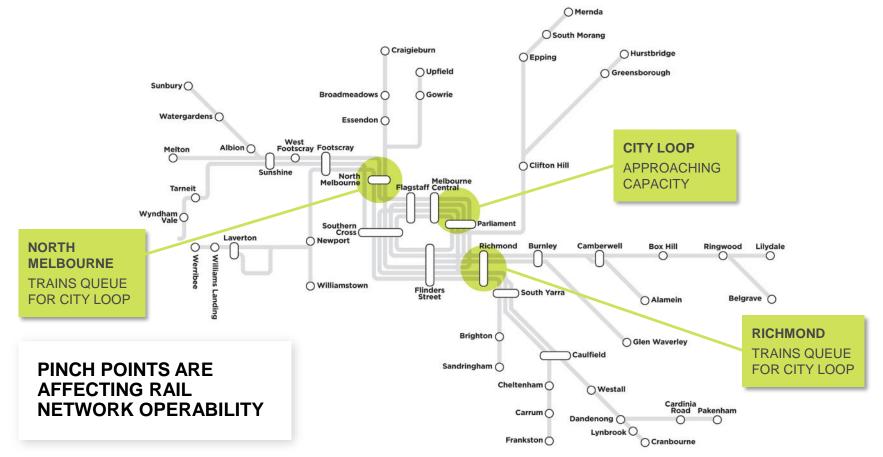
## **FUTURE RAIL PATRONAGE**

#### Annual patronage millions





## RAIL NETWORK PINCH POINTS





## METROTUNNEL TRAM PINCH POINTS

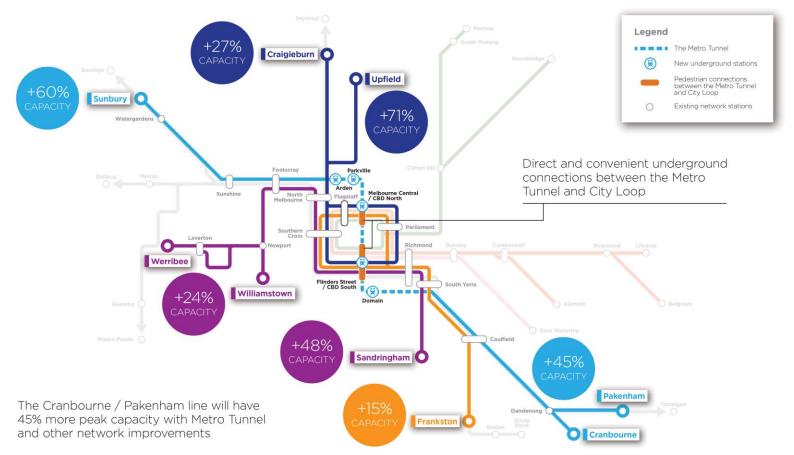


# METRO TUNNEL PROJECT



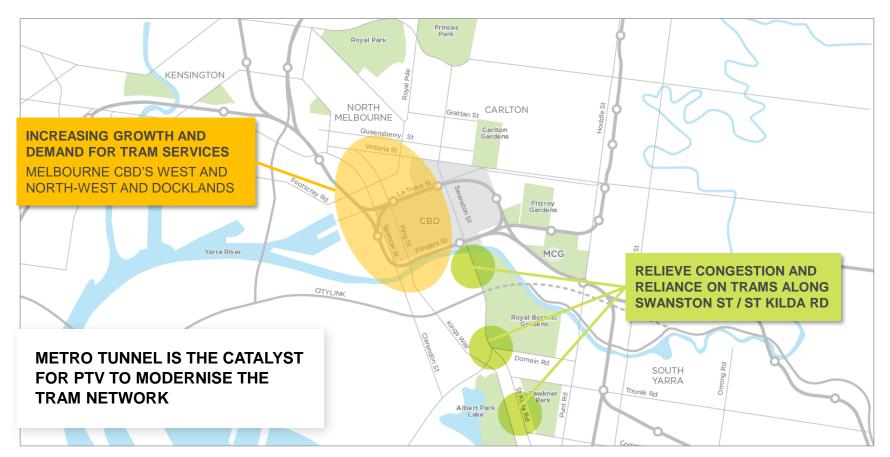


## **CAPACITY BENEFITS**



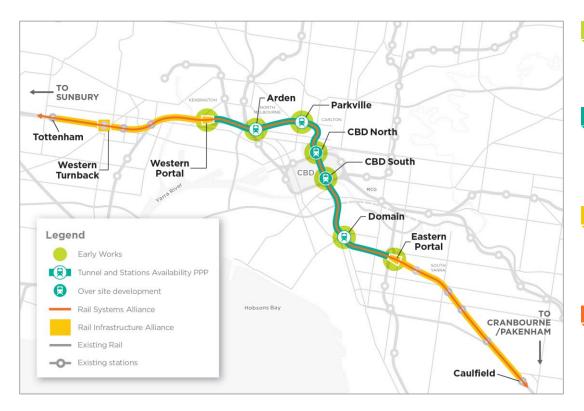


## METROTUNNEL TRAMS WHERE THEY ARE NEEDED





### **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)**

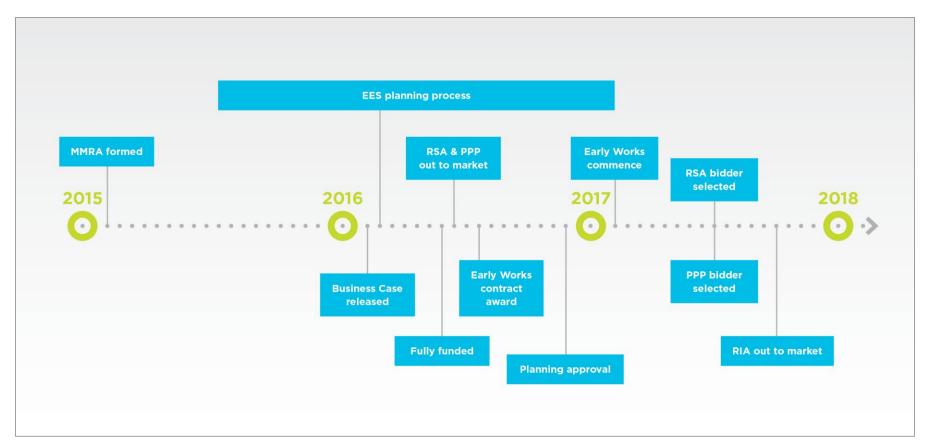
- Fastern and Western Portals
- Integration of portal with existing rail networks (civil track, overhead line equipment, signalling)
- Eastern and Western Turnback
- · Wider network enhancements

#### **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?**



#### RAIL INFRASTRUCTURE ALLIANCE

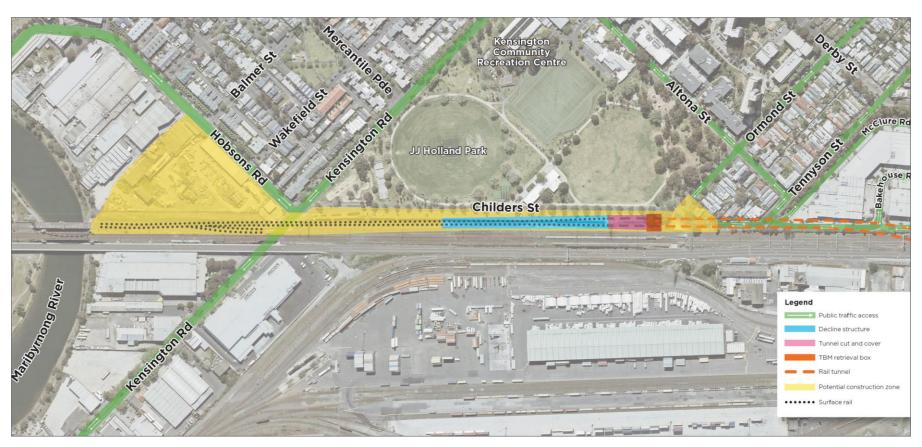
**Eli Firestone**, Western Portal Precinct Manager Melbourne Metro Rail Authority







## **WESTERN TUNNEL ENTRANCE**



## **INDICATIVE MILESTONES**

Rail Infrastructure Alliance anticipated timeframes:

- 2017 Expression of Interest received in mid-September
- 2018 contract awarded in third quarter
- 2018 major work begins in Kensington in fourth quarter
- 2021 major work finishes in Kensington, with intermittent works until 2026

# **QUESTIONS?**



# JOHN HOLLAND MANAGING CONTRACTOR - EARLY WORKS

**David Thek,** Precinct Manager – Western Portal and Arden John Holland

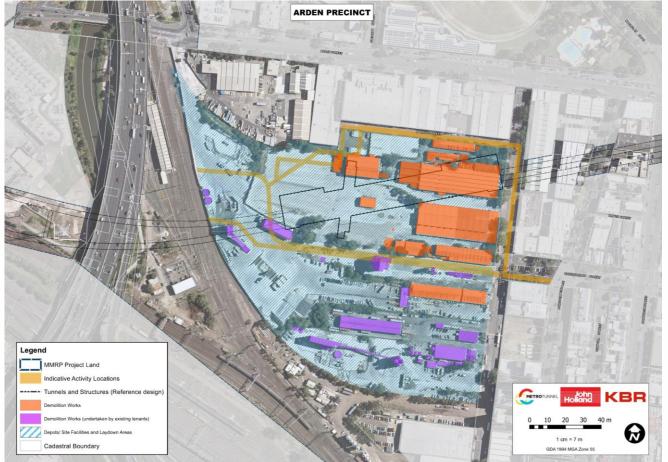




# **ARDEN**



#### Arden: demolition and service relocation









#### Arden: demolition and service relocation





### Arden: hoarding installation



# WESTERN TUNNEL ENTRANCE

# METROTUNNEL

#### Western Tunnel Entrance



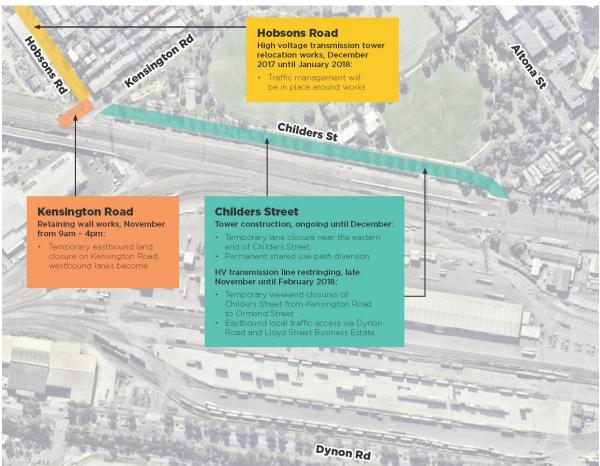


#### Western Tunnel Entrance: HV Tower relocation





#### Western Tunnel Entrance: traffic impacts







# **QUESTIONS?**



# **BEON ENERGY SOLUTIONS**CONSTRUCTION POWER

**Megan Crockford,** Project Manager Beon Energy Solutions





# **Overall Scope**

- Oesign and construction of a temporary electrical substation at Arden to power the Tunnel Boring Machines (TBM)
- Construction will last approx. 6 months with the substation handed over to MMRA
- Substation is planned to be removed in approximately 5 years by MMRA/CYP on completion of the TBM work
- Work commenced on Tuesday 10 October to mobilise to the site

## **Arden Precinct**

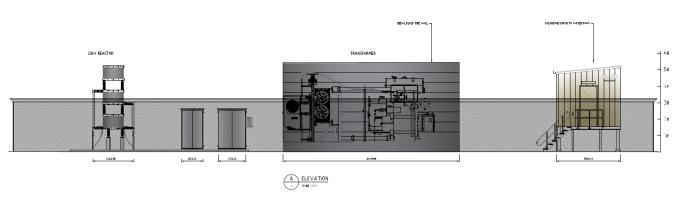
- Site Parking will be within the compound
- Minimal impact to traffic when there is, a traffic management plan will be followed
- Temporary Road Closures will only occur when bringing in large items expecting this to be approx. 5 deliveries
  - These closures will last approx. 6 hours in duration
- 4 All relevant stakeholders will be contacted around the larger deliveries
  - This will be between now and Christmas
- Trucks/Traffic will enter the site from Barwise Street
- Cables are being brought in through the existing Project land to supply power to the substation

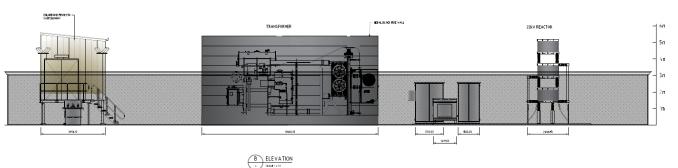
# **Arden Precinct – Barwise St**





# **Arden Precinct - Design**





#### Key features:

- Pale grey/brown Colorbond control room
- Concrete Firewall between the transformers
- Secure mesh fence surrounding the substation



# **QUESTIONS?**

