

ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

MEETING 12

24 July 2020







AGENDA

- Introductions and welcome
- 2. Parkville construction update
- 3. Arden construction update
- 4. Tunnelling update
- 5. Sustainability update
- 6. Stakeholder and communications update
- 7. Creative Program update
- 8. Arden draft structure plan update
- 9. General feedback and items for future discussion
- 10. Meeting close







COVID-19







COVID-19

Health and safety

The health and safety of our workers is our key priority as we continue to deliver the Metro Tunnel Project, as is supporting social distancing measures in line with current health advice.

- The project will continue to protect the health and welfare of our people and the community we operate within during this time
- Construction activities are continuing across all precincts
- On-site measures being taken to meet government advice on social distancing measures
- Communications and Stakeholder Engagement team reviewing how upcoming engagement activities are delivered.







CONSTRUCTION UPDATE - PARKVILLE





CONSTRUCTION UPDATE – GRATTAN STREET EAST







GRATTAN STREET EAST PROGRAM

| Activity | Jul | Aug | Sep | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|-----|
| Permanent structure works – wall linings and columns | | | | | | |
| Permanent structure works – suspended slab construction | | | | | | |
| Royal Parade station entrance excavation and strutting | | | | | | |
| Retail area excavation and strutting | | | | | | |
| Tunnelling support works (launch frame / deck removal) | | | | | | |
| Gatekeeper's Cottage (excavation) | | | | | | |
| Service relocations – goods lift | | | | | | |

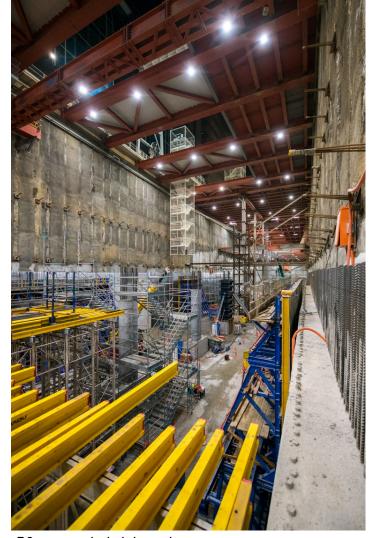




WHAT'S HAPPENING AT GRATTAN ST EAST

Permanent structure works ongoing:

- Base slab complete
- Wall lining and columns are ongoing
- B3 suspended slab 3/10 sections complete. Total of 7 sections need to be completed prior to TBM arrival.

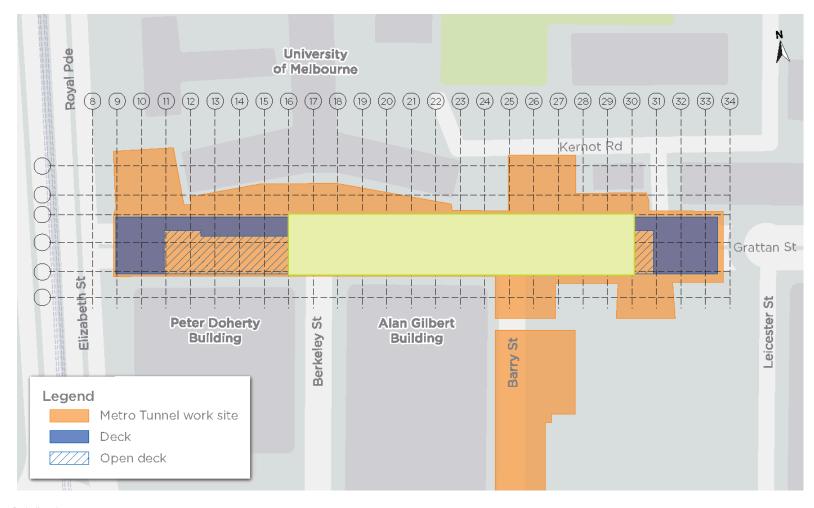


B3 suspended slab works





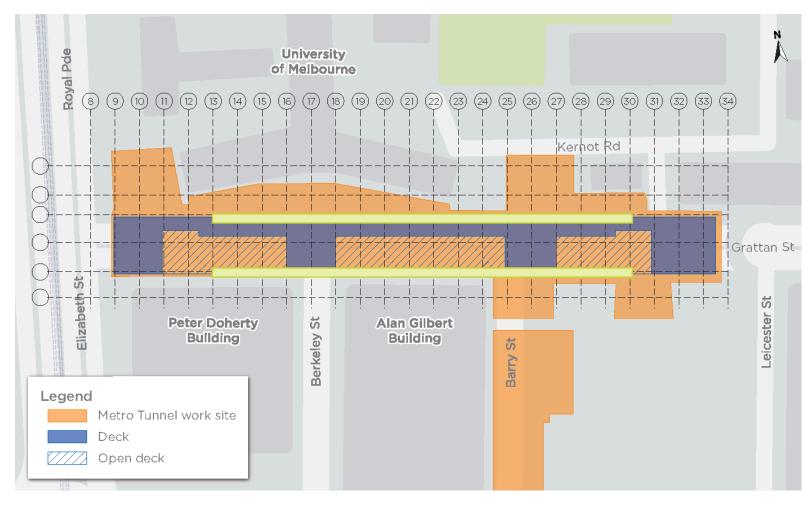
PERMANENT STRUCTURE WORKS PROGRESS – WALL LININGS B3 SUSPENDED SLAB







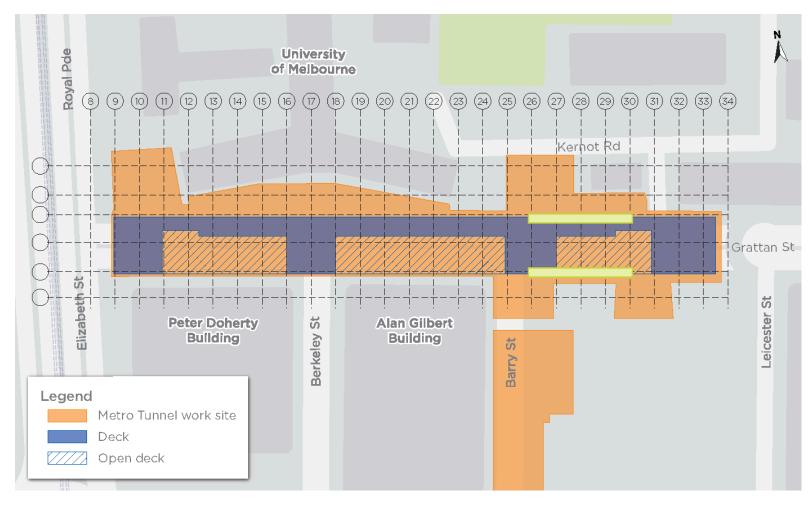
PERMANENT STRUCTURE WORKS PROGRESS – WALL LININGS B4-B3







PERMANENT STRUCTURE WORKS PROGRESS – WALL LININGS B3-B2







ROYAL PARADE STATION ENTRANCE EXCAVATION

- Works are anticipated to conclude in early September and will resume in 2021 to coincide with excavation and permanent structure works
- Strutting works commenced
- HV support works commenced
- Total excavation depth approximately 20 meters
- Station entrance construction will continue with permanent structure works.

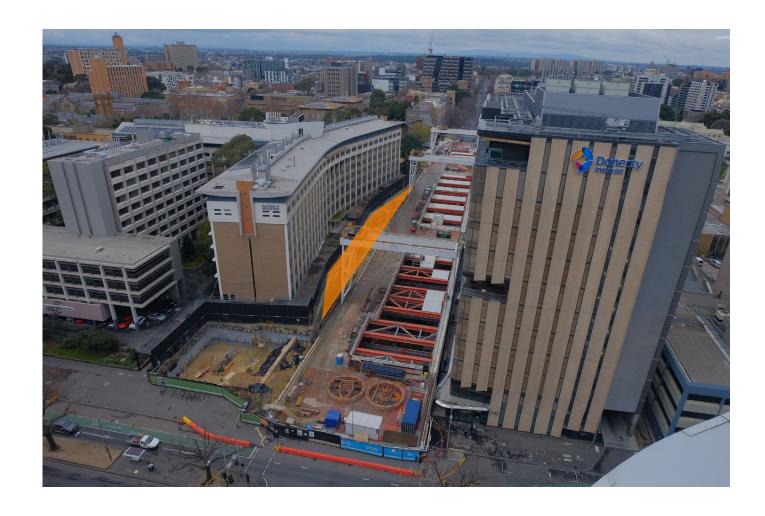






RETAIL AREA WORKS

- Works anticipated to commence from late July to install struts in the retail area
- Strut installation occurs for around four weeks
- Following additional excavation and associated works, retail area activities will continue with permanent structure works in early 2021
- Total excavation depth of retail area will be approximately 15 meters.







GATEKEEPER'S COTTAGE AREA

- Works to commence from early September for approximately 6-8 weeks, involving:
 - Excavation
 - Strut installation
 - Shotcrete
- Works will resume from mid 2021 until mid-late 2022:
 - Excavation and associated works
 - Permanent structure works
 - Mechanical, electrical, and plumbing fit-out
- Total excavation depth will be approximately 9 metres deep in total.

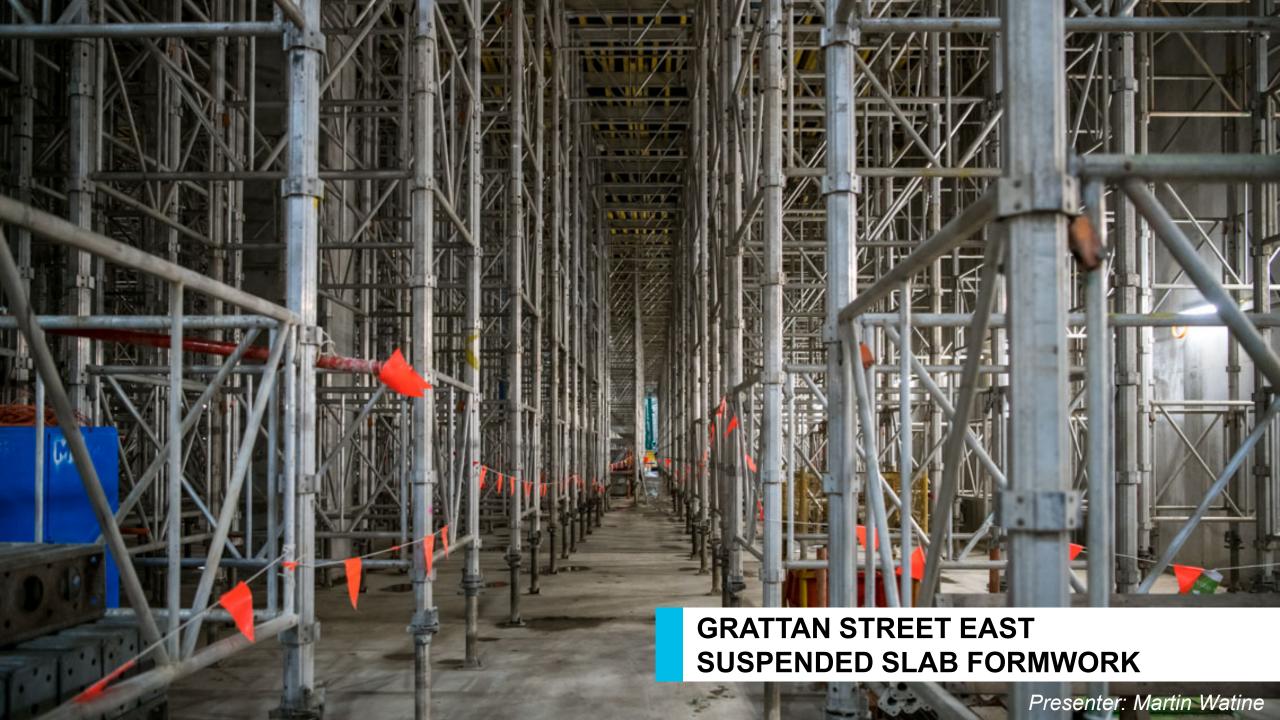


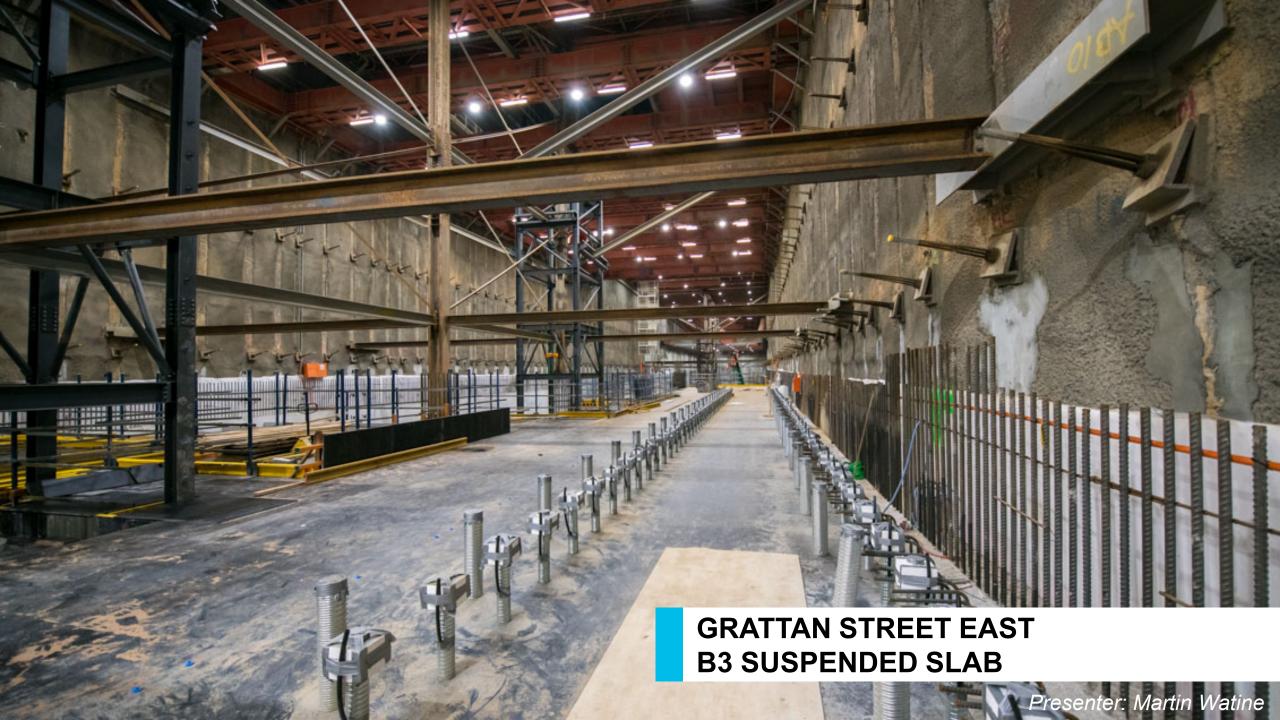
Gatekeeper's Cottage area













CONSTRUCTION UPDATE – GRATTAN STREET WEST





GRATTAN STREET WEST PROGRAM

| Activity | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------|-----|-----|-----|-----|-----|-----|
| Piling | | | | | | |
| Excavation | | | | | | |
| Roof slab construction | | | | | | |

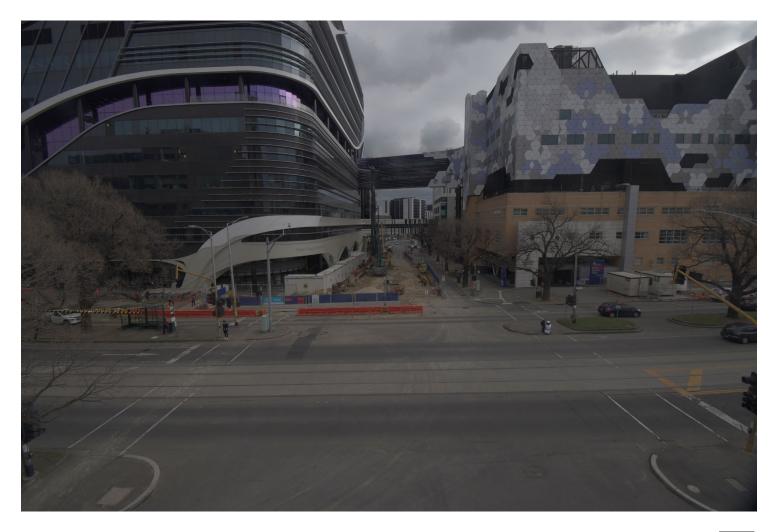
Dates are indicative and subject to change





CONSTRUCTION UPDATE

- Piling activities are more than 80% complete
- Once the piling works are complete, excavation equipment will dig out the top few metres of material
- Following excavation, roof slab construction will commence.







GRATTAN STREET WEST TRAFFIC CHANGES



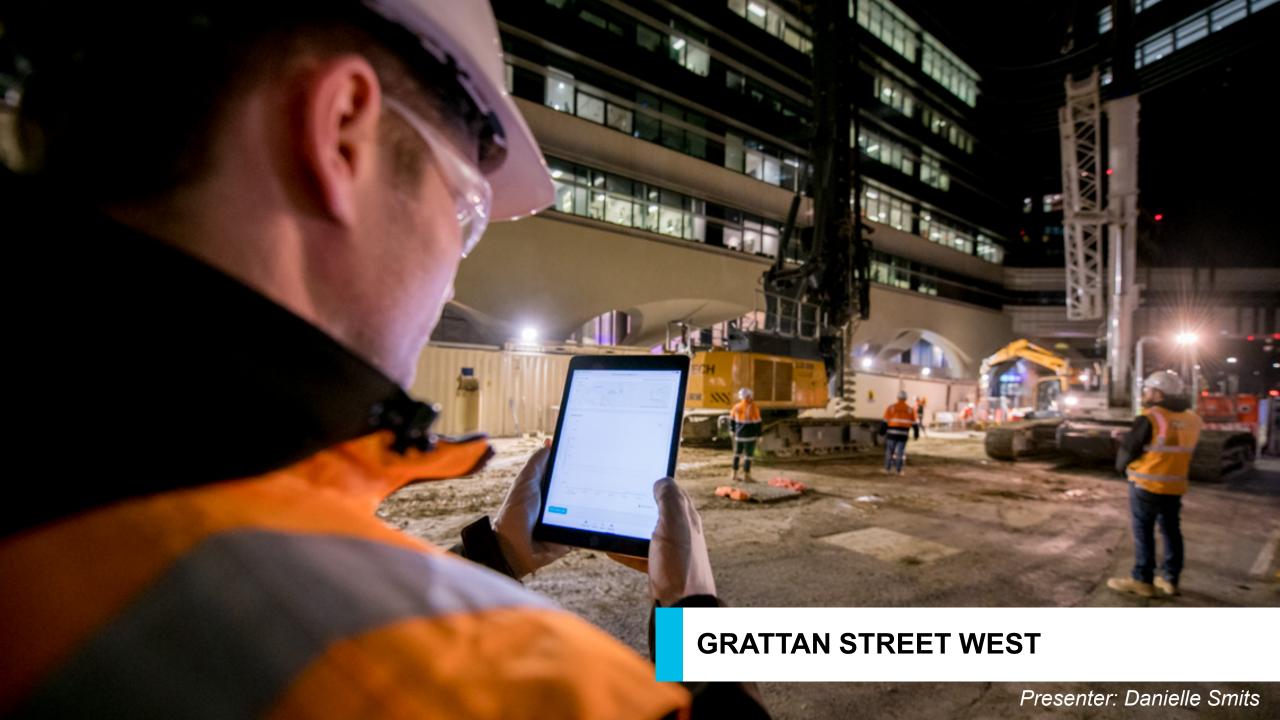
https://www.youtube.com/watch?v=zm7qODq01D4&feature=emb_logo











CONSTRUCTION UPDATE – NORTH MELBOURNE







NORTH MELBOURNE PROGRAM

| Activity | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|-----|
| Tunnelling (Arden to Parkville) | | | | | | |
| Concourse slab construction | | | | | | |
| West box inner wall construction | | | | | | |
| East box inner wall construction | | | | | | |
| Roof slab construction | | | | | | |
| Intake substation early works and construction | | | | | | |
| Cross passage construction | | | | | | |

Program is indicative and subject to change





WHAT'S HAPPENING IN NORTH MELBOURNE

Arden Station site

- Inner wall construction
- Core walls and column construction
- Roof slab construction
- Strut removal activities
- Operation of concrete batching plant (including transport of concrete to other Metro Tunnel sites)
- Site maintenance activities
- Service proving
- Survey and monitoring activities

North Melbourne electrical (intake) substation

- Service relocations
- Piling
- Foundation structure







WHAT'S HAPPENING AT ARDEN STATION

Out of hours works (Arden Station site)

- 6pm –10pm (evening works), Monday to Friday
 - Primary structure construction (including concrete pours), as required
 - Strut removal, as required
- 10pm 7am (night works), Monday to Friday
 - Over-size equipment deliveries to and from site and use of a crawler crane to unload deliveries
 - After 6pm, construction vehicles will enter and exit via Arden Street wherever possible
- 24 hours, seven days a week
 - TBM reassembly and commissioning
 - Tunnelling, slurry treatment plant, grout pump and segment facility operation.
 - Trucks transporting excavated material from site













TUNNELLING







TUNNELLING TIMELINE

| Indicative timing | Activity |
|-------------------|---|
| May – Oct 2020 | TBM 1 and 2 tunnelling North Melbourne to Parkville |

Program is indicative and subject to change







TBM PROGRESS

TBM Joan

- Total tunnel length: 1449 metres, 852 rings
- 982 metres
- 572 rings installed

TBM Meg

- Total tunnel length: 1447 metres, 851 rings
- 612 metres
- 355 rings installed







TBM PROGRESS







PARKVILLE TBM BREAKTHROUGH

- TBMs to mill slowly through the fibreglass 'soft eye' of the station box
- The 'soft eye' is designed to minimise impacts of the breakthrough
- Reduced confinement pressure to maintain slurry flow and ensure maximum amount of spoil/debris is pumped back to the Arden Station site slurry treatment plant (STP)
- Process to contain slurry in the station box after breakthrough







MANAGING NOISE AND VIBRATION - TBMS



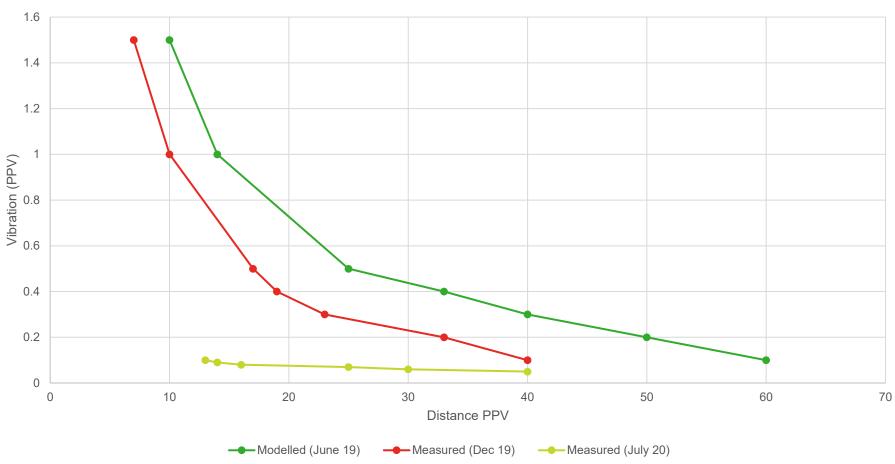






TBM MONITORING – ARDEN TO PARKVILLE

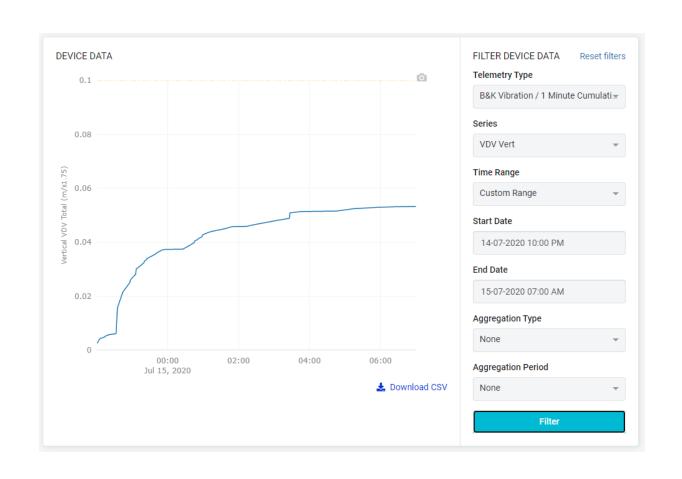








METROTUNNEL TBM MONITORING - VDV NIGHT





COMPLETED

Notifications and communications

Abbotsford Street to Curzon Street

- TBM arrival letters, noise and vibration from TBM tunnelling fact sheet, tunnel depth and alignment map to residents on Abbotsford Street, Arden Street, O'Shanassy Street and Curzon Street
- TBM1 one week out letters to residents on Abbotsford Street, Arden Street, O'Shanassy Street and Curzon Street
- TBM2 one week out letters to residents on Abbotsford Street, Arden Street, O'Shanassy Street and Curzon Street

Meetings, briefings and events

- Online tunnelling information session with residents Abbotsford to Curzon streets (3 June and 10 June)
- SMS updates requested by/provided to one resident







COMPLETED

Notifications and communications

Curzon Street to Errol Street

- TBM arrival letters, noise and vibration from TBM tunnelling fact sheet, tunnel depth and alignment map to residents on O'Shanassy Street, Falshaws Lane and Errol Street
- TBM1 one week out letters to residents on O'Shanassy Street, Falshaws Lane and Errol Street
- TBM2 one week out letters to residents on O'Shanassy Street

Meetings, briefings and events

- Online tunnelling information session with residents Curzon to Courtney streets (24 June and 1 July)
- SMS updates to be provided to six residents

UPCOMING

TBM2 one week out letters to residents on Falshaws Lane and Errol Street







COMPLETED

Notifications and communications

Errol Street to Courtney Street

- TBM arrival letters, noise and vibration from TBM tunnelling fact sheet, tunnel depth and alignment map to residents on O'Shanassy Street, Market Lane and Courtney Street
- TBM1 one week out letters to residents on O'Shanassy Street, Market Lane and Courtney Street

Meetings, briefings and events

SMS updates to be provided to two residents

UPCOMING

TBM2 one week out letters to residents on O'Shanassy Street, Market Lane and Courtney Street







COMPLETED

Notifications and communications

Courtney Street to Flemington Road

- TBM arrival letters, noise and vibration from TBM tunnelling fact sheet, tunnel depth and alignment map to residents on Courtney Street, Mary Street, Villiers Street and Flemington Road
- TBM1 one week out letters to residents on Courtney Street, Mary Street and Villiers Street

Meetings, briefings and events

- Online tunnelling information session with residents Courtney Street to Flemington Road (15 July)
- SMS updates to be provided to five residents

UPCOMING

TBM2 one week out letters to residents on Courtney Street, Mary Street, Villiers Street and Flemington Road







RESIDENT FEEDBACK

- Hotham Gardens
- Falshaws Lane
- Errol Street
- Courtney Street
- Villiers Street







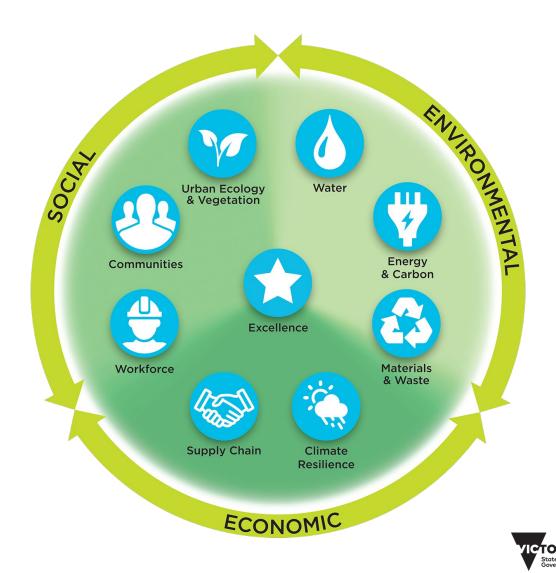
SUSTAINABILITY





CYP SUSTAINABILITY APPROACH

'CYP have adopted environmental, social and economic sustainability principles to create infrastructure that connects our communities and delivers a legacy for present and future generations'







SUSTAINABILITY OBLIGATIONS

- Infrastructure Sustainability (IS)
- Rating 84
- Green Star Ratings
- 5★ at each station

- Contract Deliverables
- Specific requirements beyond rating tool requirements













SUSTAINABILITY OUTCOMES

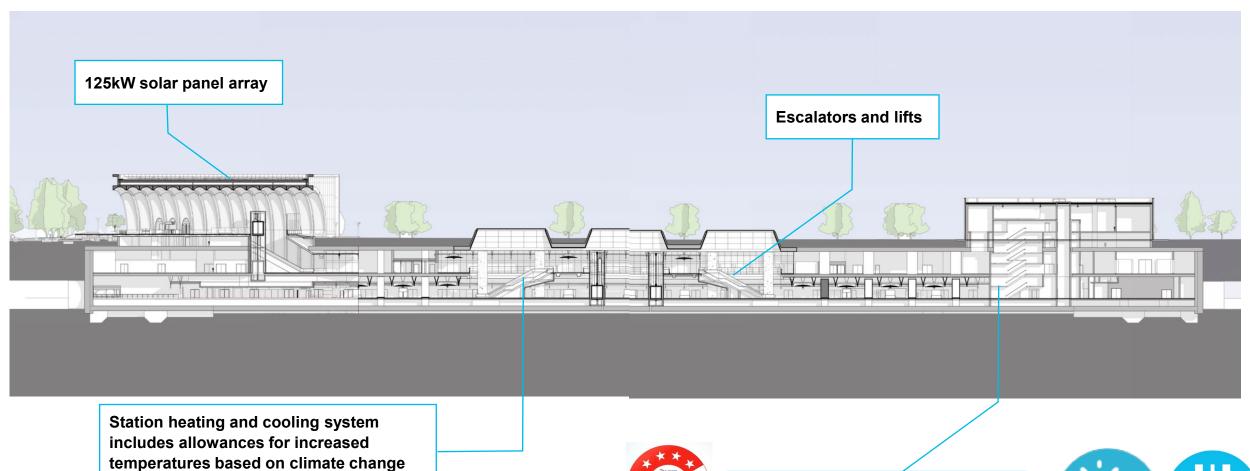








ENERGY AND CLIMATE CHANGE









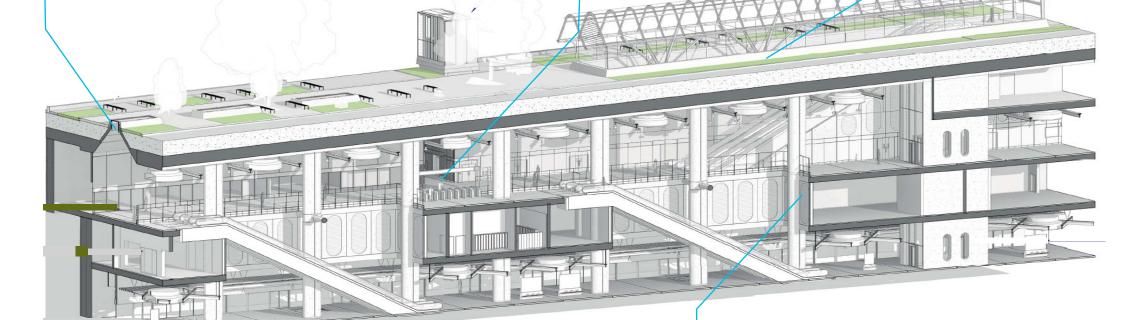
WATER

Stormwater harvesting System

Urban Realm design ensures best practice water quality performance objectives are achieved



Water efficient fixtures and fittings





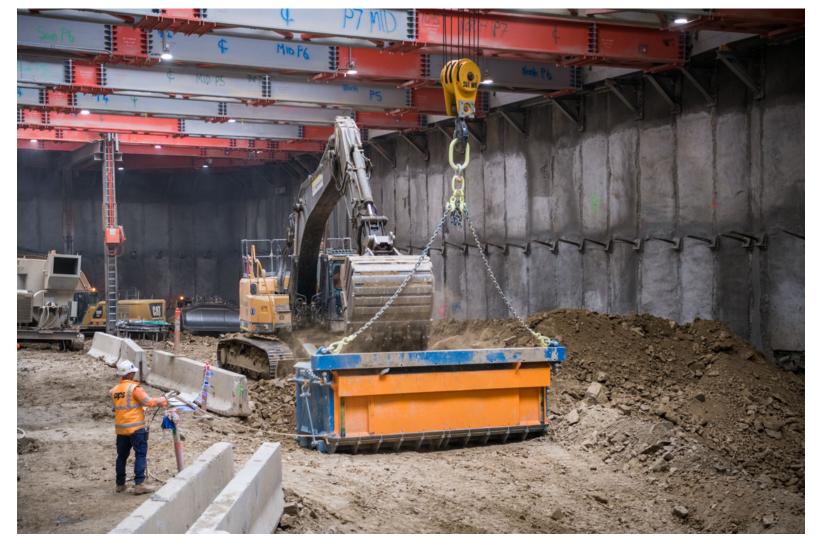


Air-cooled chillers





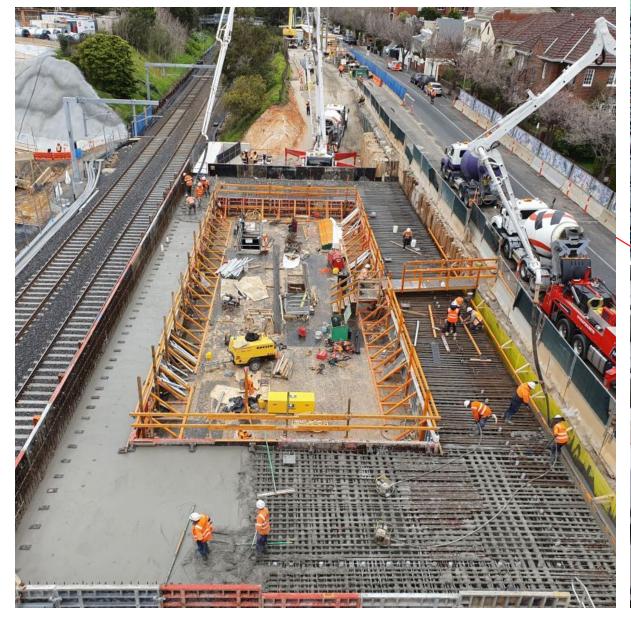
METROTUNNEL WASTE AND RECYCLING

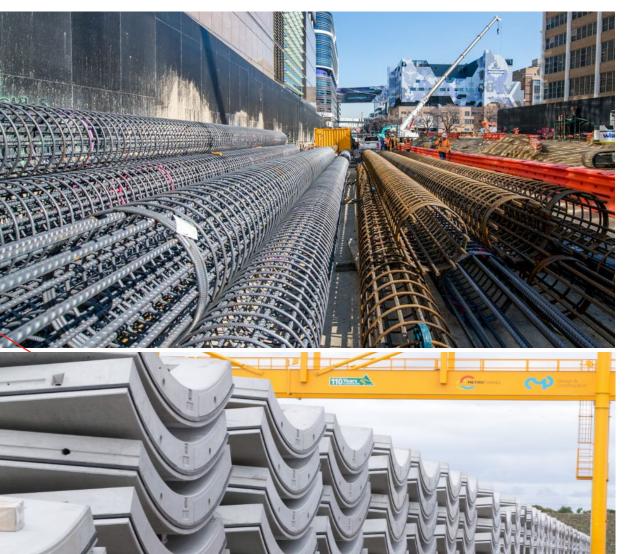






MATERIALS





SUPPLY CHAIN















STAKEHOLDER AND COMMUNICATIONS UPDATE







ENGAGEMENT AND COMMUNICATIONS UPDATE

NORTH MELBOURNE AND PARKVILLE

Notifications and communications

- Arden June/July 2020 Construction Update (11 June)
- Parkville weekly update to key stakeholders

Door knocks, meetings, briefings and events

- Parkville fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, City of Melbourne and Graduate House
- Parkville Precinct Reference Group (14 July)
- Parkville Communications Working Group (22 July)
- Arden fortnightly meetings with City of Melbourne (24 June, 15 July, 22 July)







ENGAGEMENT AND COMMUNICATIONS UPDATE

NORTH MELBOURNE AND PARKVILLE

Community issues and enquiries

- Dirt and mud on Arden Street
- TBM noise and vibration enquiries
- Grattan Street west station entrance construction comprehensive engagement with hospitals regarding construction activities

Upcoming engagement

Tunnelling operations in the Parkville Precinct







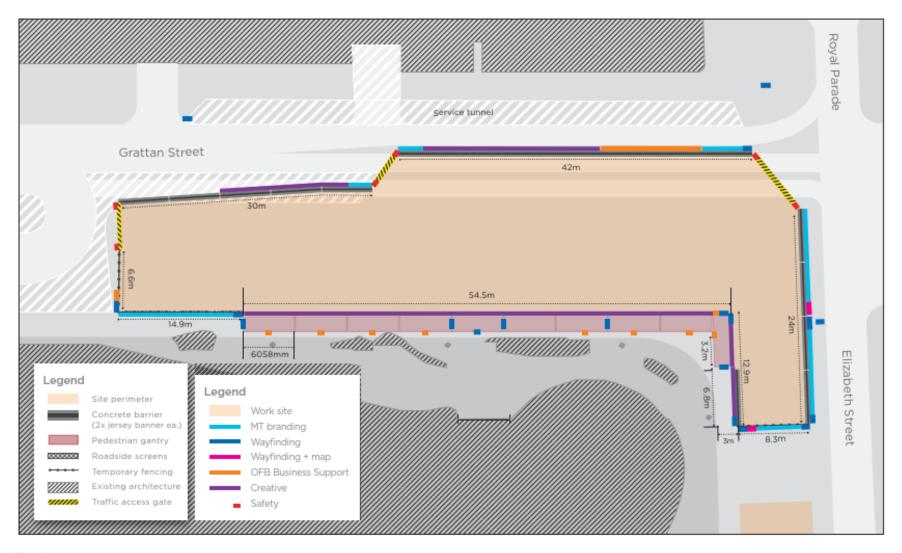
METRO TUNNEL CREATIVE PROGRAM







HOARDING SITE PLAN

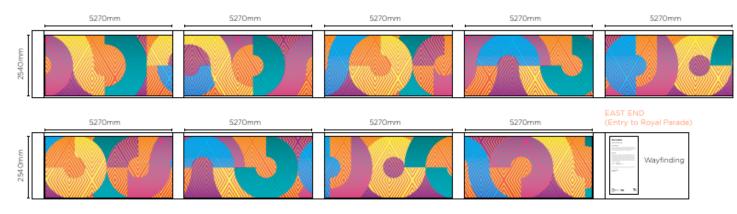






INTERIM CREATIVE IN PEDESTRIAN GANTRIES

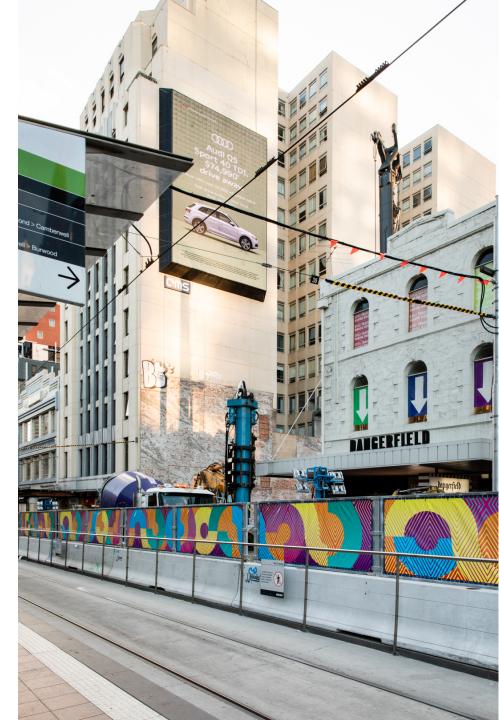




- Timing: Frame built for gantries is happening now.
- Print and install expected from week commencing July 27







PARKVILLE PHOTO ESSAY UPDATE

- Once hoarding line has been moved, design of essay will be completed.
- Expect to print and install in August
- Black and white shots from the photo essay to be displayed in the pedestrian gantries







DRAFT ARDEN STRUCTURE PLAN









1 Introduction

Purpose

Overview of the draft Arden Structure Plan

What's next?

Public consultation open until August 9.

Consultation feedback will inform the final Arden Structure Plan and preparation of planning scheme amendment package.

We are doing this to

Implement planning controls for Arden and facilitate development in line with new station opening in 2025.

The draft Plan builds from the *Arden Vision* (2018) and will guide development for 30+ years









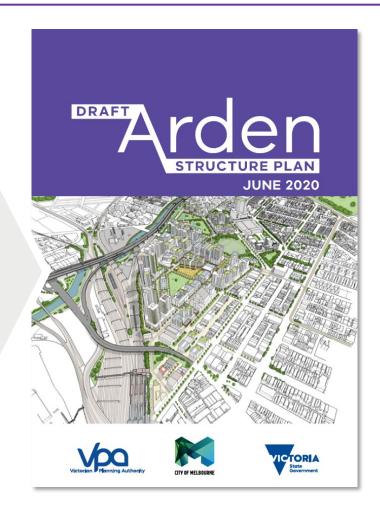
1 Introduction

What is the draft Arden Structure Plan?

- Guides land use and development, business investment and infrastructure delivery.
- Shows street layout, new buildings, parks, community facilities and infrastructure
- Guides future government decisions on things like schools and transport.
- Will be the basis of planning scheme rezoning in 2021 to unlock the innovation precinct

Why Arden?

- Melbourne's population is predicted to grow to almost 8 million by 2050.
- It's close to Melbourne's central city and serviced by three train stations and the new Metro Tunnel,
- Significant opportunity to accommodate the new jobs and residents of a growing Melbourne.









2

Arden Vision to Draft Arden Structure Plan

Arden Vision 2018: key targets



Pursue a range of sectors including: health, education, digital technologies and life sciences



34,000 jobs



15,000 residents



Best practice standards sustainability:

- Zero net emissions targets
- Alternative district water, waste and energy solutions



40% tree canopy cover by 2040 for the City of Melbourne area



Open space within 300m of all residents and workers

Flood prone land protected from impacts of 1 in 100 year flood



2-4 new schools and 2 community hubs



Protect solar access to key open spaces



Affordable housing comprising:
15% affordable housing, CoM land
10% on govt owned land for first
home buyers
6% on privately owned land



2 neighbourhood parks, green links, and Capital City open space.



90% active and public transport modes









2

Arden Vision to Draft Arden Structure Plan

From a framework plan to spatial layout backed by technical work

Arden Vision 2018

Technical studies

Draft Arden Structure Plan 2020



- Drainage
- ✓ Open space
- ✓ Sustainability
- Economic narrative and innovation requirements
- ✓ Built form testing
- ✓ Community infrastructure
- ✓ Integrated transport
- ✓ Heritage and cultural values
- ✓ Contamination

Technical studies will be available at exhibition of the final Arden Structure Plan and planning scheme amendment









2

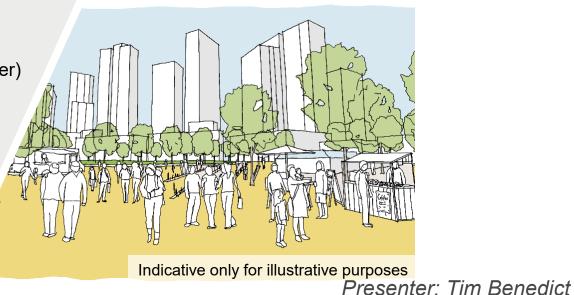
Arden Vision to Draft Arden Structure Plan

The Draft Arden Structure Plan delivers

The Draft Arden Structure Plan...

- Achieves approximately 34,000 jobs & 15,000 residents
- Describes principles and key moves informing the 2D spatial layout including streets, land uses, built form, open spaces and public realm
- Sculpts built form through a combination of Floor Area Ratios, heights and design objectives
- Illustrates a transport network to prioritise walking, cycling and public transport, future proofs for a high capacity public transport route, with limited centralised car parking
- Outlines Arden flood management strategy and potential delivery mechanism (TBD by Melbourne Water)
- Reinforces affordable housing targets and highlights the aspiration for global best practice
- Propose strategies to provide for a zero-carbon precinct
- Highlights matters to be included in a development contributions plan





8 HOW TO GET INVOLVED Public Consultation



Consultation commenced 29 June 2020 until Sunday 9 August 2020. | Feedback will help shape the final Arden Structure Plan and planning scheme amendment, anticipated for exhibition in early 2021



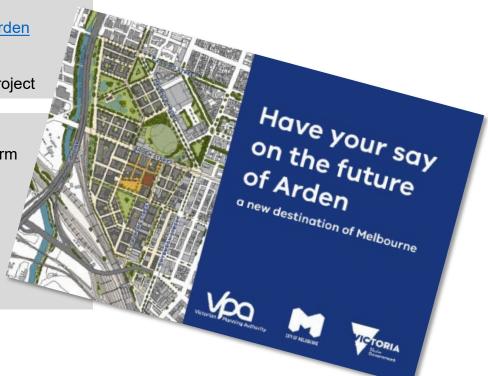
Where to find all the information?

- Visit https://participate.melbourne.vic.gov.au/arden
- Online Q&A sessions
- Call 9651 9600 to speak to a planner on the project



Key consultation activities

- Online survey via Participate Melbourne platform
- Small group discussion
- Interactive online webinar
- Arden hotline for enquiries
- Targeted community interest group
- · One on one meetings





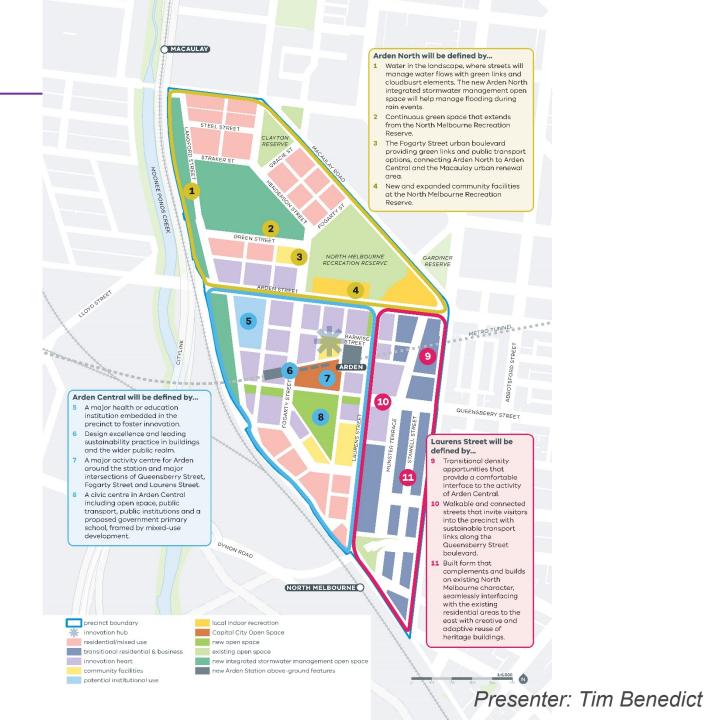




The Draft Plan Future Urban Structure

Key Themes:

- 1. Transforming Arden
- 2. Designing a distinctive place
- 3. Embedding sustainable change
- 4. Prioritising active transport
- 5. Celebrating water
- 6. Creating diverse open spaces
- 7. Accommodating diverse communities
- 8. Investing in community infrastructure



QUESTIONS?







NEXT MEETING

Friday 18 September 2020







