**Melbourne Metro Program Economic Scope Allocation**

### Major Precursor Projects

Projects expected to have Interface with MMRP

- The following projects have either been completed or funding has been confirmed:
  - Regional Rail Link and proposed timetable changes
  - Bayside Rail Improvement Project
  - Removal of all B road-rail crossovers between Dandenong and Caufield
  - Cranbourne – Pakenham Rail Line works (platform extensions, power & signalling)
  - Deployment of 37 HCMT trains on the Cranbourne-Pakenham line
  - HCMT depot and maintenance facility at Pakenham East
  - High Capacity Signalling early deployment
  - Flickers Street Station Restoration and Upgrade

Funding has not yet been confirmed for the following projects:

- Melton line duplication (incl. station at Tullorn)
- Partial duplication of the Cranbourne line

### Future Projects (design considerations)

**Melbourne Metro Construction Start**

- **Early Works**
  - Environmental monitoring & Lab tests
  - Choice of construction methods
  - Land acquisition
  - Relocation of utilities
  - Construction power supply
  - Demolition / relocations
  - Some tree removal

- **Other Tram Works**
  - (Not part of Early works)
  - Elizabeth St/Flinders St connection
  - Simpson St terminus
  - Clarendon St/Park St connection
  - Park St Link

### Melbourne Metro Program

#### Core Tunnel

- **Two tracks in an underground tunnel** from the South Kensington portal to the South Yarra portal
- Signalling & power to allow safe & reliable operation of at least 24 scheduled services per hour
- **South Yarra junction connecting tunnel portal to Caulfield Locals**, allowing trains operating on the tunnel track pair to merge with services continuing on the current Caulfield line with introduction of interactions between facing train movements
- **Western turn-back**

#### Core Stations

- **Arden - to service precinct**
- **Parrr vista - to service precinct & tram interchange**
- **CBD North - with paid-area connectivity to Melbourne Central**

#### Wider Network Enhancements

- **Sunshine to Dandenong corridor works**
  - Systems and infrastructure to support a safe and reliable operation to meet the service requirements on the Sunshine - Dandenong rail corridor including HCS
  - Passive provision for future works in corridor - Melton electrification & Sunshine-River Park West quad track
  - Infrastructure to support service continuity during planned and unplanned disruption (Resilience for Day 1 Operation)

- **Other corridor works**
  - Turnback facility to allow turn-back of services from the Cross City line (Eastern Terminals)
  - Infrastructure to facilitate short turnback of services at Essendon
  - Signalling improvements to support additional services on Craigieburn Line
  - Infrastructure to facilitate short turnback of services at Essendon
  - Reconfiguration of Camerin standing access
  - Signalling upgrade on Cross City Line
  - Turnback capacity to terminate new services at Cheltenham

#### Rolling Stock and supporting works

- **25 No. HCMT Procurement and fleet cascade**
- **Stabling and maintenance facilities upgrades to allow for 25 HCMT Procurement and fleet cascade**
- **Platform extensions to allow operation of 7 car HCMT (South Kensington to Sunbury)**
- **Traction power enhancement to support Day-1 operation (South Kensington to Sunshine) & on the wider network to support the fleet cascade**
- **HCS interoperability for HCMT rolling stock on the Sunshine - Dandenong Line**

### Future Operational Projects

- **Operational Phase Costs**
  - Delivery of incremental MM services
  - Incremental maintenance & operations

#### Future Enabled Projects

- **Enabled Projects**
  - Extended HCMT procurement for the Sunshine - Dandenong Line and fleet cascade (Power, Platform Extensions & Stabling)
  - Melton quad track between Sunshine and Deer Park West
  - Melton electrification (including additional extended HCMT’s, Grade Separations and a flyover at Sunshine Junction)
  - Frankston Line: Conversion of existing rolling stock to dual voltage capability to run on Sunshine - Dandenong Line to gain access to Wattle Park train maintenance facility

- **Future Dependent Projects (enabled, not assessed)**
  - Conversion of Northern Loop & Frankston Loop to two through running pairs
  - Wallan Electrification (via Upfield) and Truncation of Craigieburn services at Stobbox Park
  - Rowville Rail Link
  - Melbourne Airport Rail Link
  - Tram Plan changes (potential future cascade & associated works)

### Future Projects (design considerations)

- **Operational Program**
  - Camberwell - Box Hill Quad
  - Ringwood - Upper Ferntree Gully duplication
  - Clifton Hill – Newport tunnel upgraded to 10-car HCMT (may impact Parkville interchange volumes)
  - Arden Urban Precinct Redevelopment

**LEGEND**

- Future Enabled Projects (enabled, not assessed)
- Extended Program
- Operational Costs
- MMRP Work which will be funded by the Business Case
- Critically Interdependent Projects (Funding to be sought by PTV)
- Enabled Projects
- Projects assumed to have interfaces with MMRP (Funding status varies)
- Scope / Funding to be confirmed