



**METRONET**

# METRONET

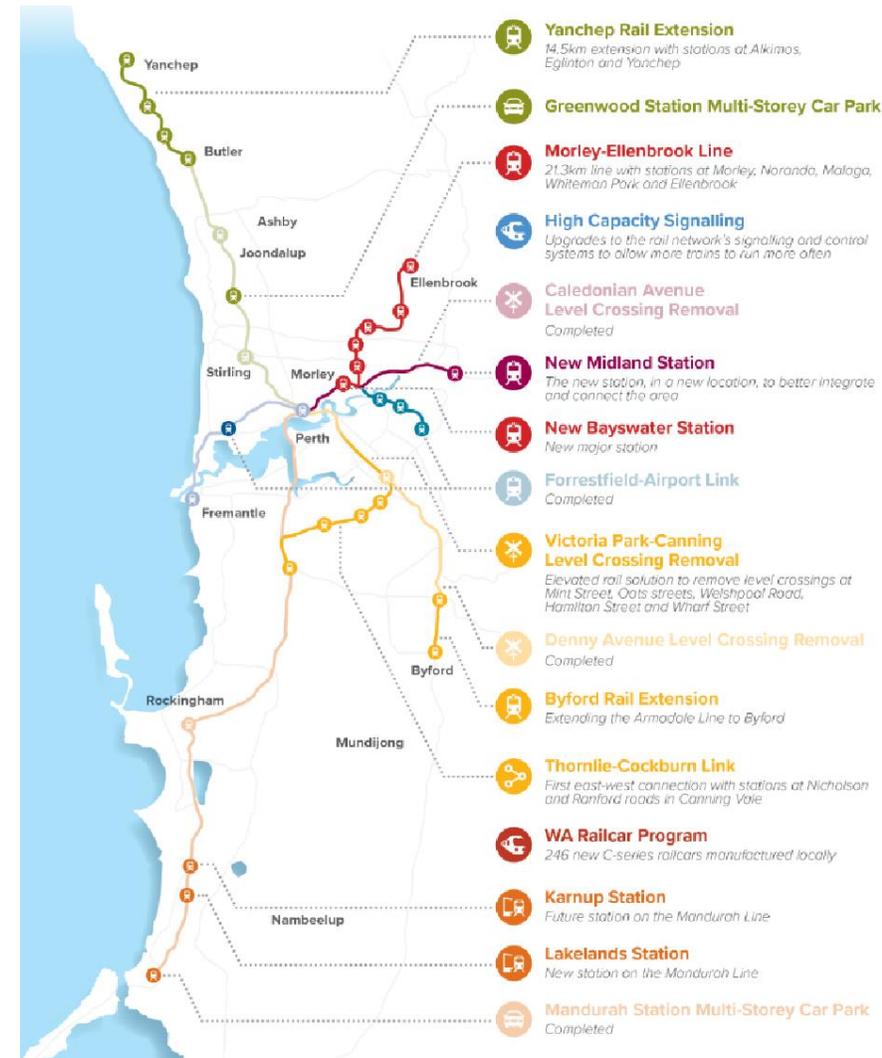
John Buck

Project Director

METRONET Railcar Procurement Project

## Overview

- Largest single investment in public transport Perth has ever seen
- Approx. 72km of new passenger rail, 23 new stations.
- 246 new C-series railcars
- Long term legacy in the community through Aboriginal engagement, Sustainability and public art outcomes



## Updates

- Airport Line is now open
- Lakelands Station is open
- First tracks laid for Morley-Ellenbrook Line
- Southern platforms at Bayswater Station are complete
- Construction has started on station buildings at Nicholson and Ranford Road stations
- Test trains expected to operate on Yanchep Rail Extension late-2023
- First three C-series trains have entered their dynamic testing phase on the network
- Armadale Line Shutdown begins November



## More than just a rail project

- METRONET is a catalyst for developing over 8,000 hectares of land around stations.
- Delivering METRONET is more than just trains and track:
  - Creating and connecting communities
  - New and local employment opportunities
  - Positive outcomes for sustainability, public art and culture and Aboriginal engagement.



## The benefits of investing in public transport



## WA Railcar Program

- New C-series railcars are a key component in the delivery of the METRONET program
- Supporting the expansion of the rail network as new METRONET projects come online
- 246 new railcars (41 trains) will trigger the gradual retirement of the A-series trains and cascade the B-series trains to the Fremantle, Armadale and Midland lines
- Supporting more local job opportunities and local content delivery





# PTA Railcar Procurement Project

The Public Transport Authority

# Project Overview



After 27 years, railcar manufacturing has returned to Western Australia.



Alstom will deliver 41 six-car Electric Trains and 2 three-car Diesel Trains for the PTA



Alstom has a contractual local content target of 50.06%, which must be achieved by the end of the supply term (2029)

# High- Level Project **Timeline**

## **Contract Signed**

Alstom and PTA enter contract

2019

## **Assembly Building & HV Test Facility**

The Bellevue Assembly Facility & HV Test Facility are handed over to Alstom

2020

2021

2023

## **Train 03**

Train 03 hit the PTA network for testing.  
The first look at railcar aesthetic

2023

2023

## **Railcar Design Stage**

EMU and DMU railcar design begins.

## **Train 01 & Train 02**

Trains are built and begin static and dynamic testing on the PTA network.

## **Entry into Passenger Service**

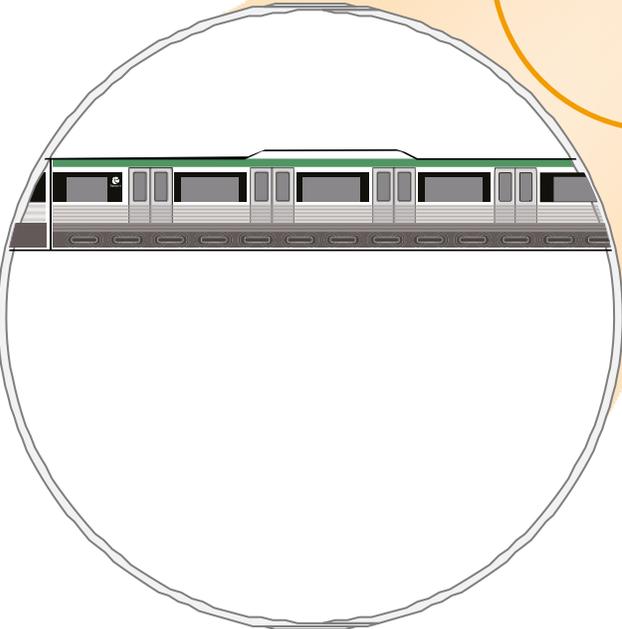
The first railcar to enter passenger service.



# Railcar **Features**



# C Series Snapshot



## The C- Series

Six railcar set

Approx. 144m long

Additional Doors on each railcar

Regenerative braking

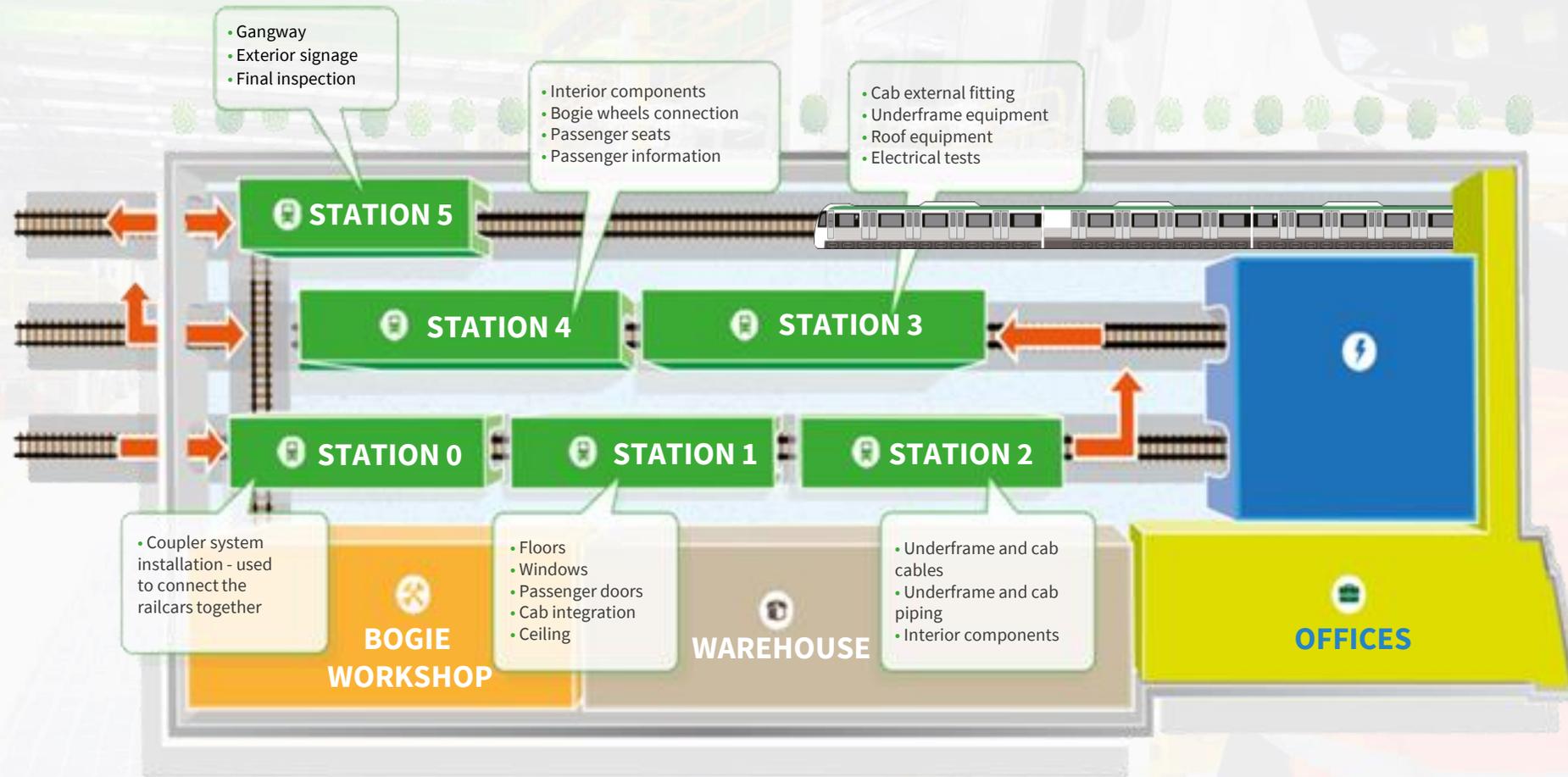
LED lighting

Vinyl flooring

35-year service life



# Assembly Operations



# Project Numbers- **Local Engagement & Employment**



**153**

**Total workforce numbers**



**6**

**Total number of apprenticeships**



**29**

**Local WA subcontractors**



**50.47%**

**Ontrack to achieve 50.47% local content by 2030**

Against target of 50.06%





## Lessons Learned

- Greater focus on defining network access requirements and the suitability of the PTA network to ensure key commissioning activities can be completed in line with agreed standards

- Differences between the Australian Standards, International Standards and State specific standards, creating challenges in the design and manufacturing process.
- Early development of a Fleet Maintenance Strategy which identifies the necessary maintenance infrastructure requirements and is continually developed throughout the project lifecycle

# Where to from **here?**

## **Introduction of new railcars**

The PTA will take delivery of approximately six railcars each year from 2024 until 2029.

## **Entry into service**

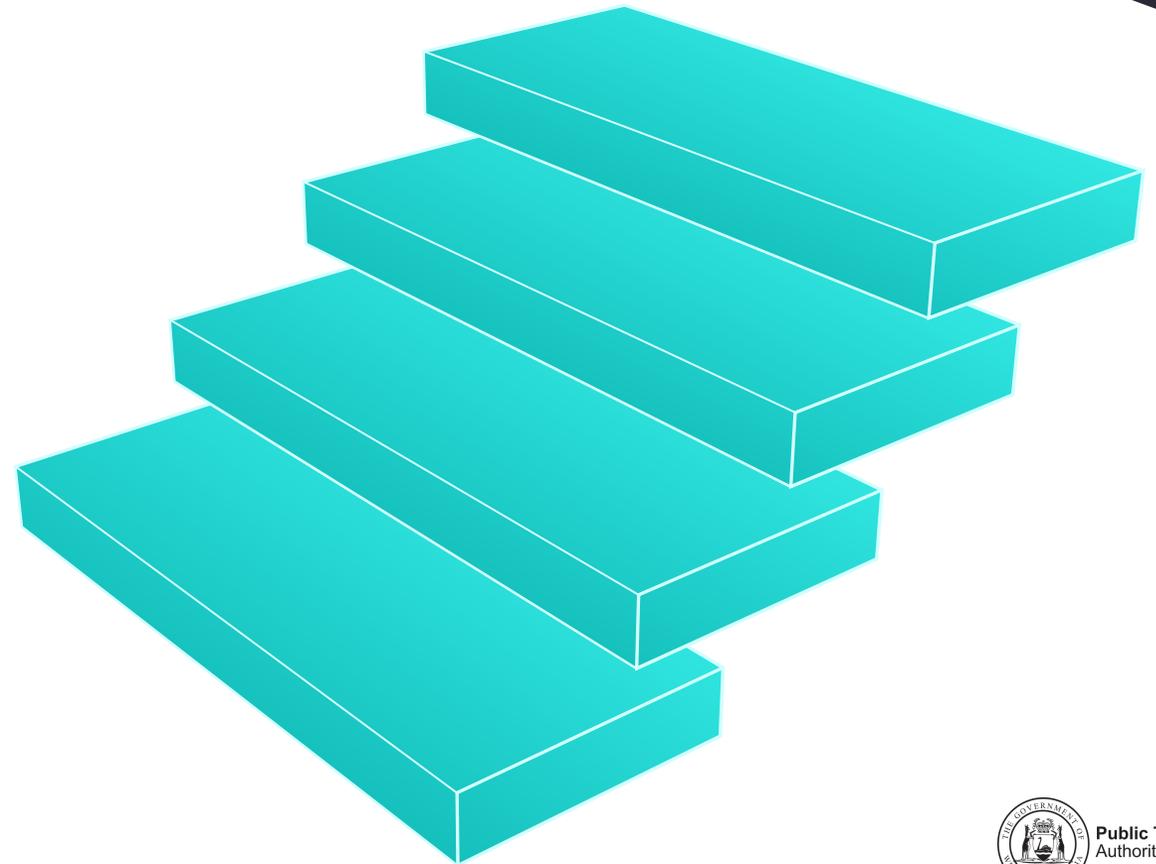
The PTA will continue to focus on entry into passenger service, commencement of maintenance, and transitioning the existing fleet across the PTA network.

## **Diesel Fleet**

Finalising the commissioning plan for the DMU railcars

## **Support Alstom**

Focus on continuing to support Alstom to achieve their local content target, with assistance from the Department of Jobs, Tourism, Science and Innovation





**Public Transport  
Authority**

[WA Railcar Program \(metronet.wa.gov.au\)](http://metronet.wa.gov.au)