March 2018

Hornsby Junction Remodelling project

Faster turnaround times and increased reliability for Hornsby Station customers

The major upgrade of the rail junction at Hornsby was completed on Monday 15 January 2018. Trains can now turnaround much faster, providing a more reliable service for customers on the T1 North Shore.

The Hornsby Junction Remodelling Project boosts consistency and reliability at one of the busiest stations on the rail network – where the T1 North Shore and T1 Northern lines intersect with the Intercity Central Coast and Newcastle line trains.

The remodelled junction:

- provides capacity for more services on the T1 North Shore Line
- separates train services using the T1 Northern Line and T1 North Shore Line
- increases train speeds allowing services to arrive and depart faster.

More than 700 commuter parking spaces now available at Hornsby Station

The main commuter car park on George Street reopened on Thursday 22 February after it was closed to allow remodelling work at Hornsby Junction to be completed safely.

Commuter parking at Westfield Hornsby also remains available Monday to Friday between 5am and 10pm (excluding public holidays and select dates in December).

Customers have access to more than 700 dedicated spaces during peak times close to Hornsby Station while plans for the commuter car park and precinct are developed with Hornsby Shire Council.

To view all commuter parking options at Hornsby Station see the map on page 2.

Thank you

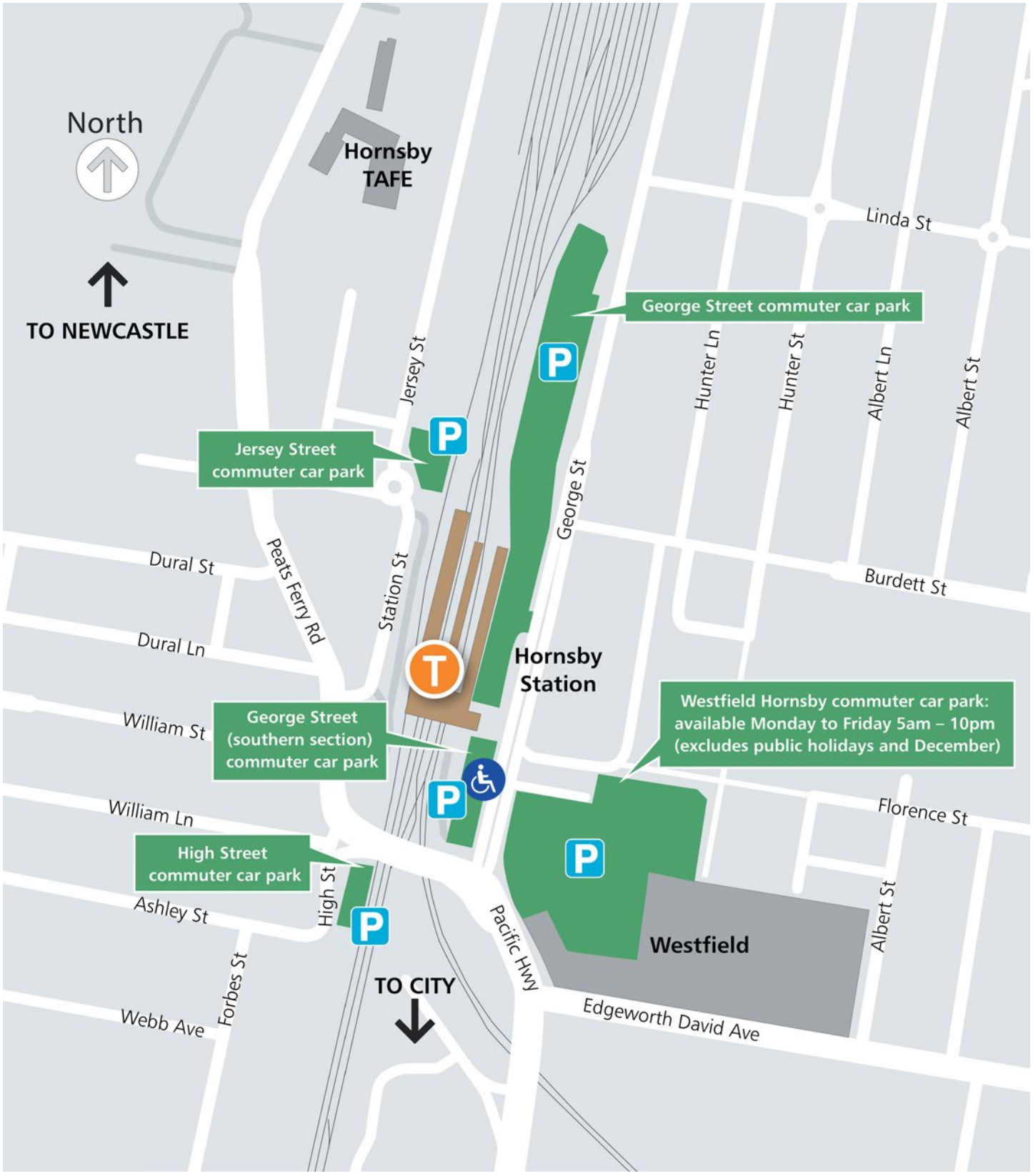
The project team appreciates the support and patience shown by the local community and thanks residents and rail customers for their understanding while we delivered this important project.

Minor finishing work will continue at Hornsby over the coming months, however activities will be less intensive and the community impact is anticipated to be low.

For more information call **1800 684 490**
Email **projects@transport.nsw.gov.au** or visit **transport.nsw.gov.au/projects**
For urgent enquiries or complaints regarding construction activities, please call 24 hours **1800 775 465**

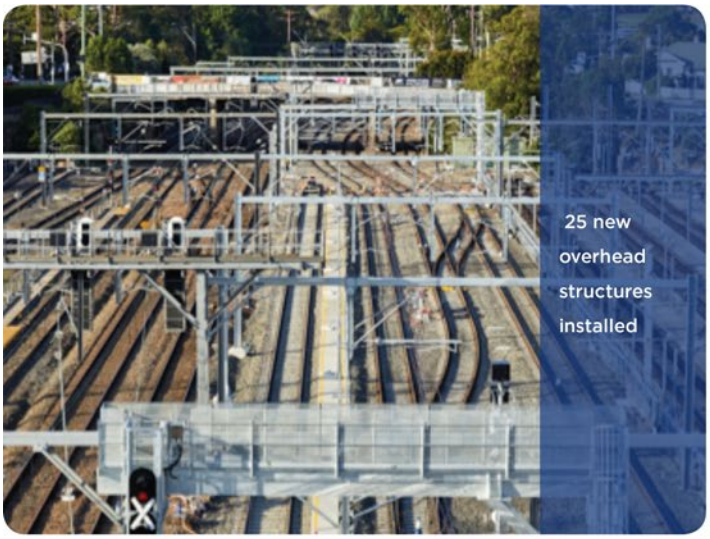
Working towards a new Hornsby precinct

Transport for NSW is continuing to work with Hornsby Shire Council on precinct planning for Hornsby Station and the surrounding area to improve connectivity around the precinct and access to transport. Any planning will address the need for commuter car parking for transport customers. Transport for NSW will keep the community informed as the plans develop, including opportunities to have your say.



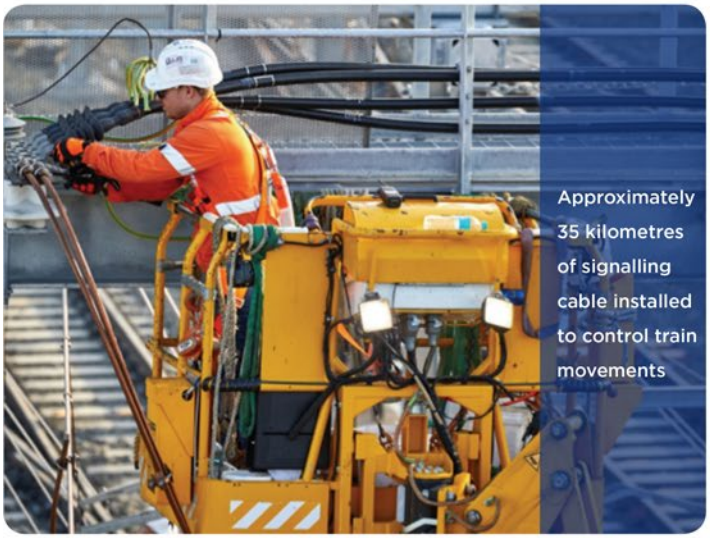
What we achieved

Customers will benefit from better journey times after improvements to infrastructure were completed as part of the Hornsby Junction Remodelling Project.

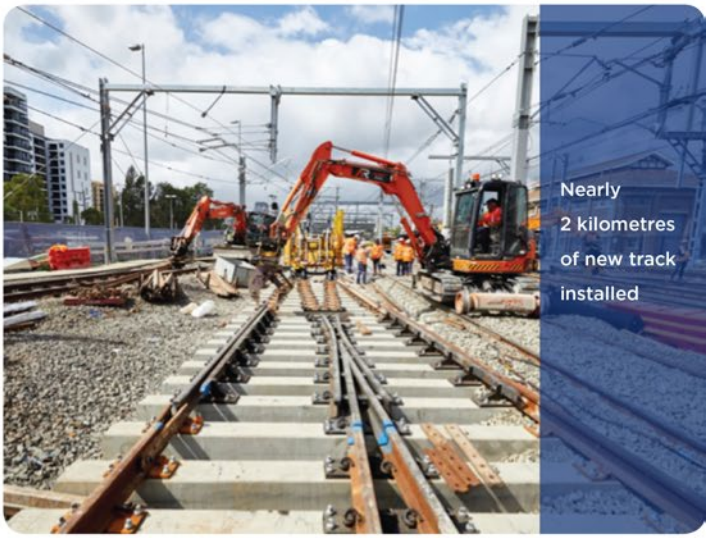


25 new overhead structures installed

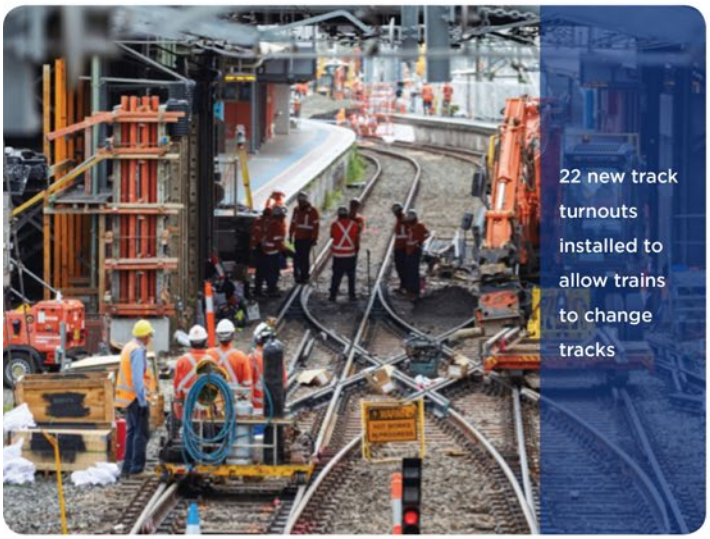
13 kilometres of new overhead wire installed to power trains



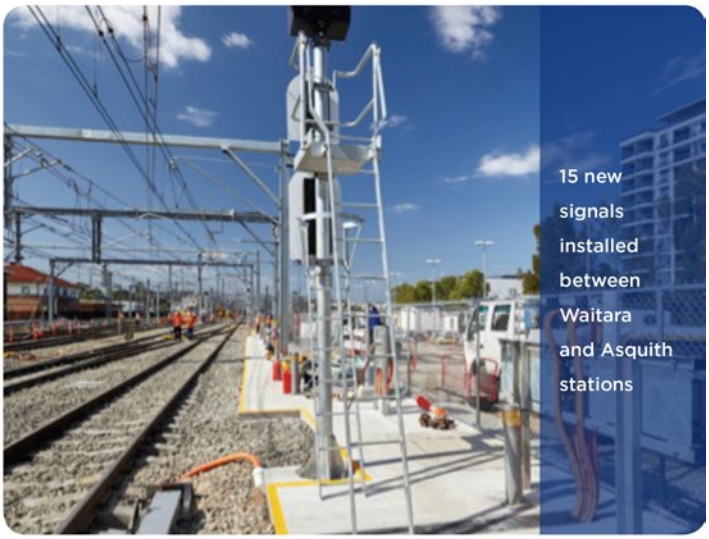
Approximately 35 kilometres of signalling cable installed to control train movements



Nearly 2 kilometres of new track installed



22 new track turnouts installed to allow trains to change tracks



15 new signals installed between Waitara and Asquith stations

To see a time lapse of the major construction activities undertaken from 29 December 2017 to 15 January 2018 visit the project website at **transport.nsw.gov.au/projects/Hornsby-junction.**

The most complex remodelling of a rail junction ever undertaken in Sydney

Remodelling Hornsby Junction required complex signalling and track reconfiguration – all within a live-rail environment. For the project team, this posed a significant operational and logistical challenge as Hornsby is the busiest rail junction in Australia with multiple suburban lines, Intercity services and freight trains all converging in a single location.

By simplifying the train lines and improving signalling systems, the junction operates more reliably, reduces maintenance requirements and provides greater independence between the T1 North Shore and T1 Northern lines.

17-day Trackwork: Major construction

Between 29 December 2017 and 14 January 2018, the project team worked round the clock to fast-track the delivery of the new junction, a process that would have taken more than three years to complete had the work been done on standard trackwork weekends only.

While there is never a good time to replace trains with buses, the Christmas and New Year period was selected as patronage on the network during this period is significantly lower.

A solutions focus

Below are examples of initiatives that were instrumental to the successful completion of the project and showed the out-of-the-box thinking required to deliver a project of this complexity.

Virtual Signal Sighting Model:

A virtual model of the project allowed construction managers, engineers and designers to avoid clashes in works and schedules. The model improved construction efficiency by providing the project team a comprehensive look-ahead of the project through each detailed stage of construction.

Virtual Reality Simulator:

A simulator was developed to prepare drivers for the new junction. This allowed the drivers to see and experience the new junction ahead of its opening, fast-tracking their familiarisation of the new track and signal layout.

Lime stabilisation:

The use of lime stabilisation, where lime is added to the track foundation to strengthen and improve its quality, meant the project reduced the need to excavate areas of poor foundation - generating a saving in time, cost and spoil removal.

Spoil recycling:

A large amount of spoil was removed from the junction area and reused to level out areas within the rail corridor at Cowan and the Hawkesbury River, preventing it from going to landfill.

More Trains, More Services

The Hornsby Junction Remodelling Project is part of More Trains, More Services, a coordinated program that will provide rail customers with more frequent and more express services, delivered by more modern trains and enabled through infrastructure upgrades.

The NSW Government will invest more than $1.5 billion over the next three years on the More Trains, More Services program which will boost capacity through hundreds of extra services, better infrastructure and new trains for Sydney.

Contact us

If you have any questions or would like more information about the project, please contact us via the details below.

This document contains important information about public transport projects in your area. If you require the services of an interpreter, please contact the Translating and Interpreting Service on **131 450** and ask them to call Transport for NSW on **(02) 9200 0200**. The interpreter will then assist you with translation.

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