

PASSENGER INTERCHANGES

*Seamlessly Connecting
Passengers*



Jacobs has extensive global experience in providing Passenger Interchange solutions. This capability extends across a wide range of Rail & Transit modes of transport including Heavy Rail, High Speed Rail, Light Rail, Metros, Monorails, Bus networks and providing advisory services for innovative transport modes.

OUR APPROACH

As a global leader in providing transportation solutions we recognise that a well-connected interchange is a key factor in improving the customer experience that will draw passengers to our Rail & Transit systems supporting the modal shift to this lower carbon form of transport. Our Global Team of industry specialists are ideally positioned to bring our cross-discipline expertise to deliver innovative Rail & Transit Passenger Interchange solutions for our Clients throughout the full project lifecycle.

PROJECT EXAMPLES

SERVICES PROVIDED

- Project / Programme Management
- Engineering Management
- Transport Planning & Demand Forecasting
- Concept of Operations development
- Timetable modelling
- Passenger flow modelling
- Cost analysis
- Commercial & Retail Assessment
- Place making and Interchange-led development
- Environmental and sustainable solutions
- Requirements Management and specification writing
- Planning and Consents management
- Interchange Multi-discipline Design including:
 - Architectural
 - Civils, Geotechnical and Structures
 - Railway Systems
 - Building Services
- Asset Management
- Safety & Security
- Revenue collection



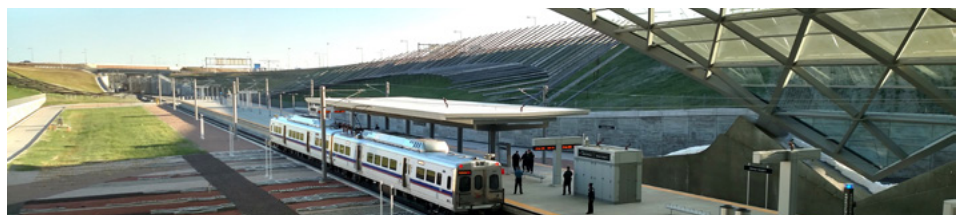
DART Silver Line Commuter Rail, USA

Jacobs was the principal design consultant to the design-builder for a 26-mile railroad alignment, with nine commuter rail stations and one light rail station. Jacobs provided design and oversight for track alignment, bridges, pedestrian trail, drainage, retaining walls, stations, and signalling.



Derby Station, UK

The £180m Derby Station Remodelling project was a key part of the UK Midland Main Line upgrade to cut journey times and segregate services through the station area. The scheme consisted of a new 320 m island platform with lifts connecting to the existing footbridge, new platform buildings and canopy. As Principal Designer, Jacobs services included Architecture, Civils, Permanent Way, Electrical & Plant and building services.





Mooroolbark & Lilydale Stations in Melbourne, Australia

Jacobs were the design partner of the South East Programme Alliance which replaced two rail crossings with an elevated viaduct solution which also required the construction of two new stations. Jacobs' design scope included track, traction power, rail signalling, structural and civil design. Jacobs' Building and Architecture team designed the stations with BKK Architects and Aspect Studios Landscape Architects as design partners.



Etihad Rail passenger services, Fujairah Station, United Arab Emirates (UAE)

Jacobs were engaged by Etihad Rail to develop the 600 km freight and passenger rail network of the United Arab Emirates. We completed the Preliminary Engineering design for the 200 km/h conventional passenger rail system which included the design of 12 new stations across the UAE Stage 2 railway network and the main passenger train fleet maintenance depot. Our services included demand assessment, automated fare collection, civils & structures, stations, and the subsequent detailed design review and construction supervision of the railway works.



Iskandar Malaysia Bus Rapid Transit, Johor, Malaysia

Iskandar Regional Development Authority has established a Public Transport Master Plan for Iskandar Malaysia which identified the requirement for a 386 km Bus Rapid Transit System (BRT). The planned system will consist of 10 BRT corridors, all requiring new stations, interchanges and hubs which are to be implemented in three phases. Jacobs is engaged on the 51 km Phase 1 Busway to provide detailed engineering design for the Skudai Corridor, as well as BRT Planning, Operations, Vehicles, Systems Engineering and Traffic Management Consultancy.



Some of our other representative projects include:

- Victoria Station, London, UK
- Brisbane Metro, Australia
- Greenville Transit Hub, USA
- City of El Paso, Bus Rapid Transit, USA
- Cross Rail River, Brisbane, Australia
- Sydney Light Rail, Australia
- Suburban Rail Loop, Melbourne, Australia
- Auckland Light Rail, New Zealand
- Kuala Lumpur MRT Lines 1, 2 & 3, Malaysia
- Station Access for All Schemes, Ireland
- Haramain High-Speed Rail, Saudi Arabia
- Dubai Route 2020 Metro Extension, United Arab Emirates
- Virgin Hyperloop, Saudi Arabia
- Dublin BusConnects, Ireland
- Kuala Lumpur to Singapore High Speed Rail
- Cork Light Rail, Ireland
- Blackfriars Station, London, UK
- Cotton Belt Regional Stations, Dallas, USA

