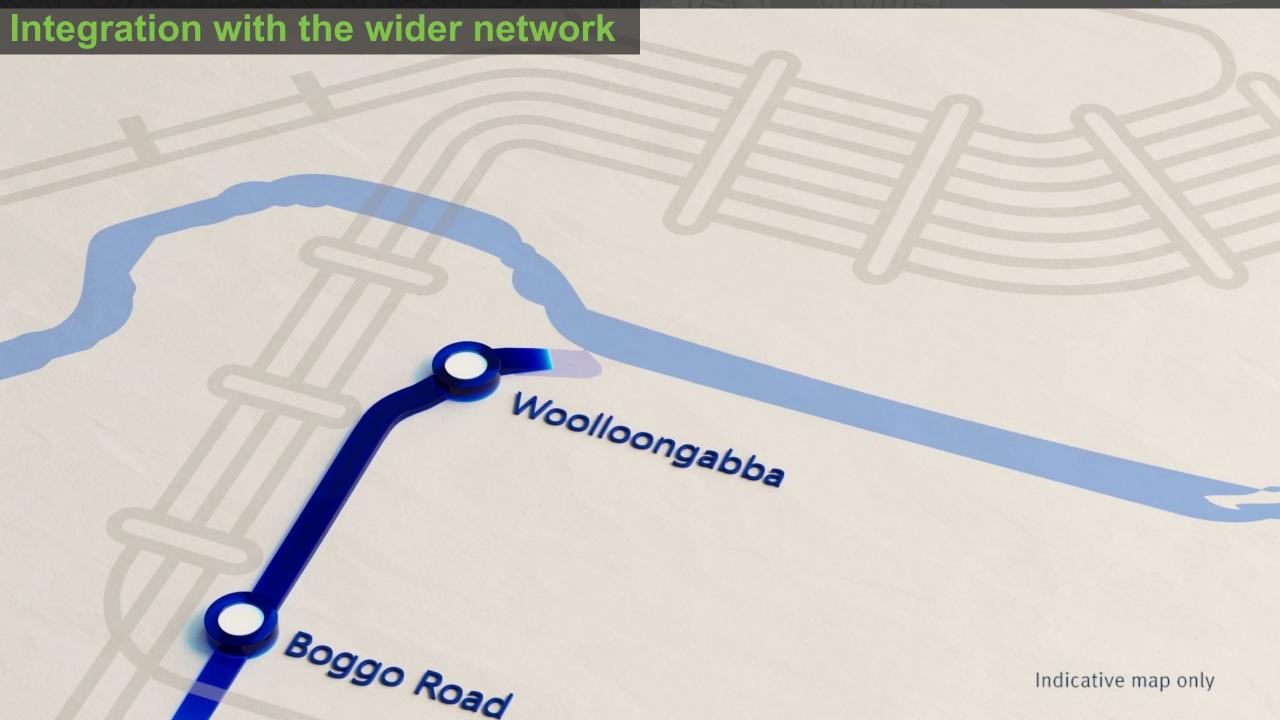




We acknowledge the Traditional Owners of this Country and the place of our meeting, and recognise the continuing connection to lands, waters and their communities.

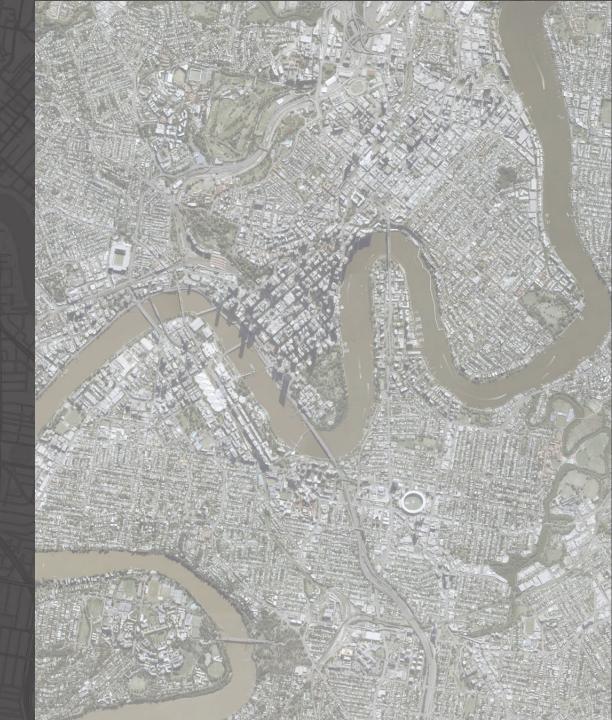
We wish to pay our respects to the culture of our First Nations Peoples and to Elders past and present.





Unlocks a bottleneck at the core of our network

- A single inner city rail line bypasses the CBD
- A single river crossing constrains capacity
- Every train on the network must pass through the same four inner-city stations



More than just an underground

10.2 km new rail line



4 new underground stations



3 new Gold Coast stations



5.9 km twin tunnels



8 surface stations and 2 stabling yards



1 new world class signalling system



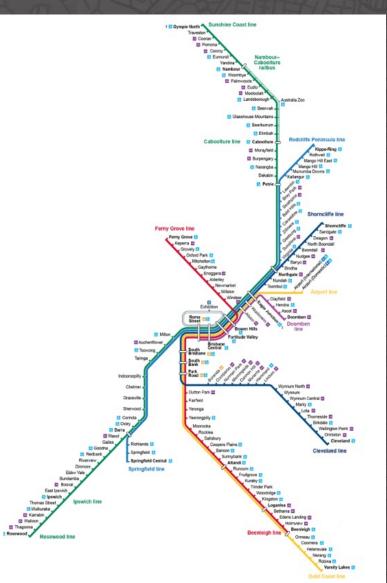




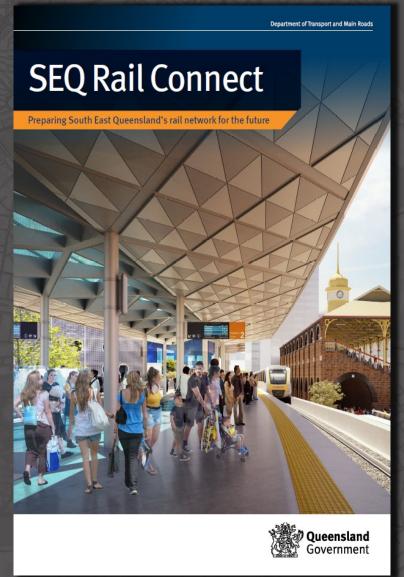
Commercial-in-Confidence

A catalyst for wider rail transformation

Current QR rail network map:

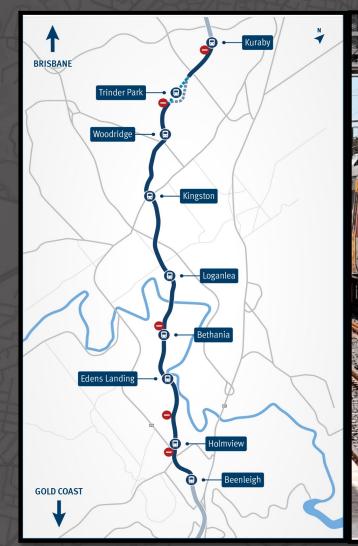


Released 2 August 2022:

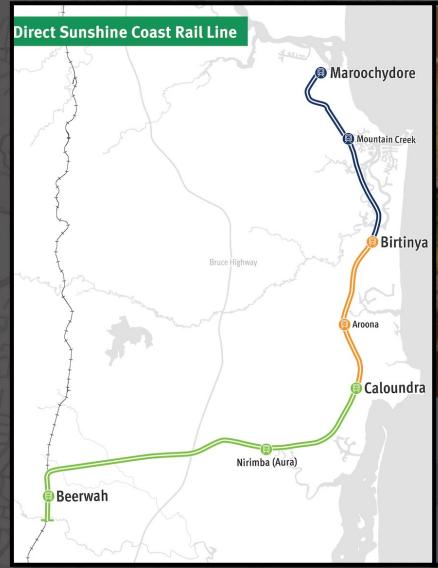


Future rail network map:



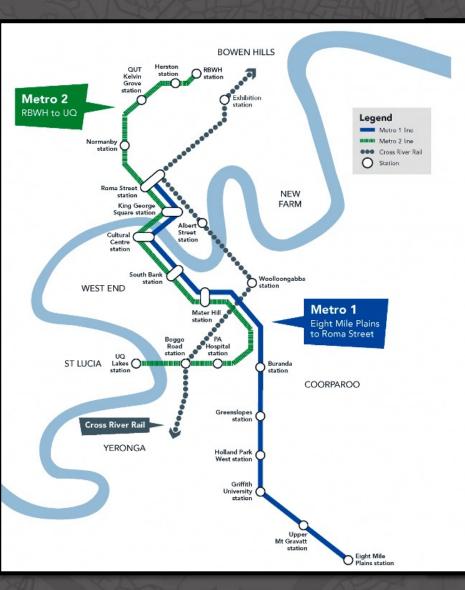




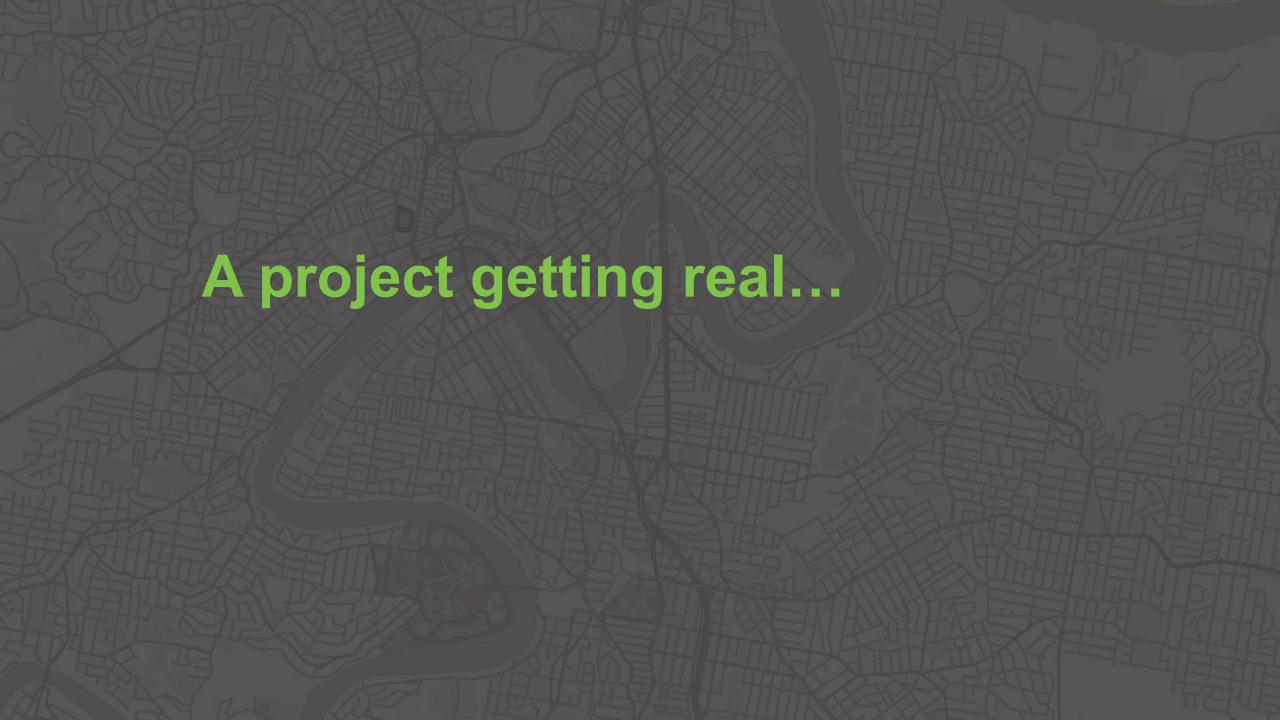




Brisbane Metro





















Six stations Fairfield to Salisbury









Moorooka station







Rocklea station

Salisbury station











ETCS - Testing

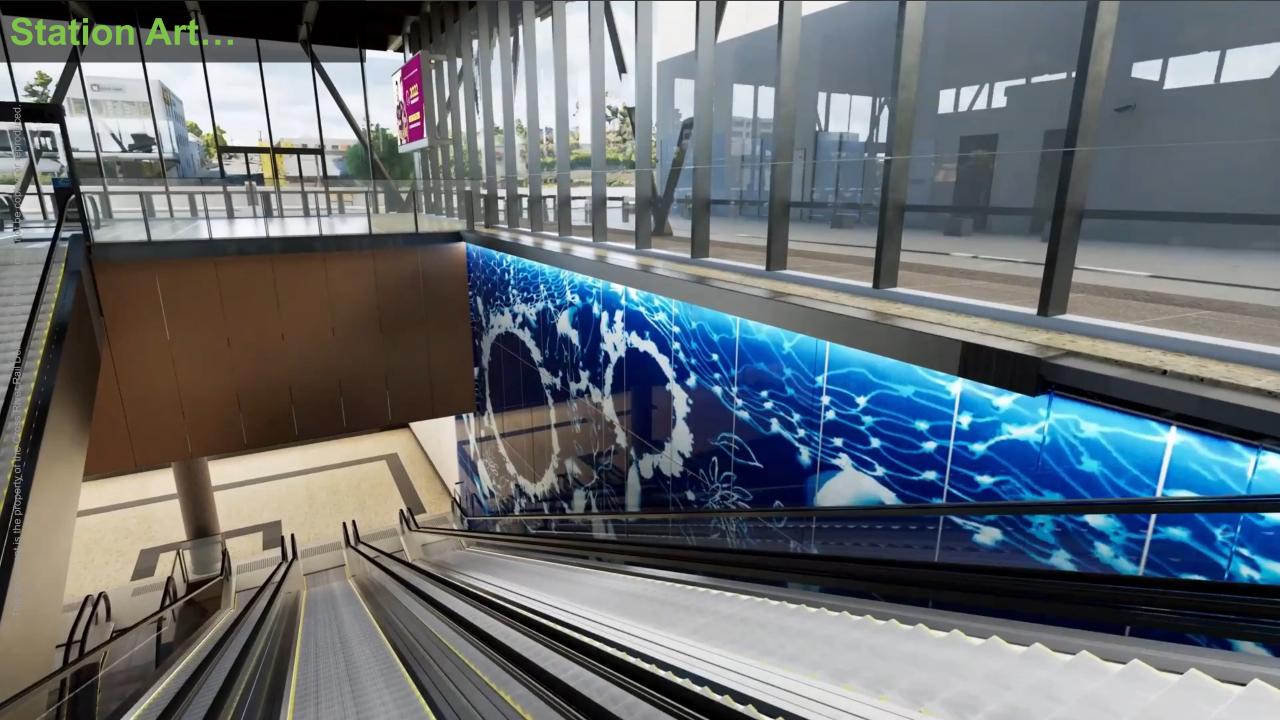




Station Art...

Installing 14 art works by Queensland's most celebrated and renowned Indigenous artists.







Using Digital Visualisation to enhancing Assurance and Acceptance

Project DNA

- Our Whole of Project Digital Network Approach
- Commitment to an Operable Digital Twin of the infrastructure we are building
- To include also a virtual/digital Brisbane for the purpose of Precinct Planning
- Enabling 3D visualisation all the way up to 7D real time operations and maintenance





A groundbreaking approach

Common Data Environment (CDE)

• File store, Data Synchronisation and Data Centric Database

Building Information Modelling (BIM

- BIM Software Suite
- Common specification across all contracts

Geographic Information Systems (GIS)

- Esri Software Suite
- Geospatially referenced

Visualisation and Gamification (VIS)

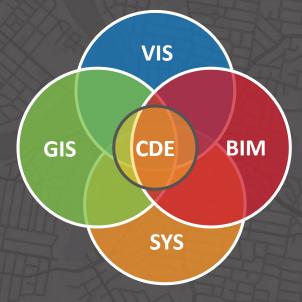
- Unreal Engine Gaming Software
- Reality Model / Immersive experiences

Systems & Information Modelling (SYS)

- Data & Information software suites
- Rethinking how and where data is saved

Communications & Engagement

Precinct Delivery

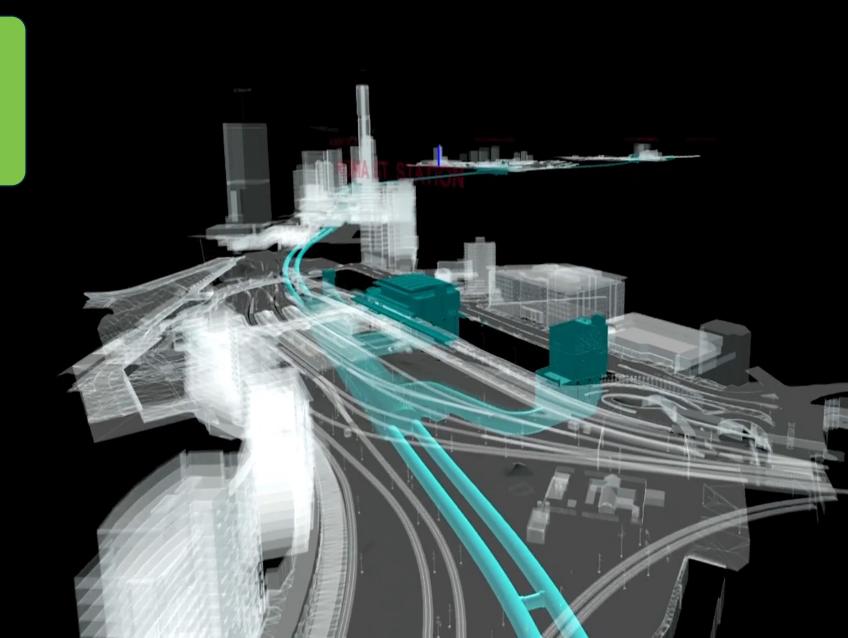


Project Delivery

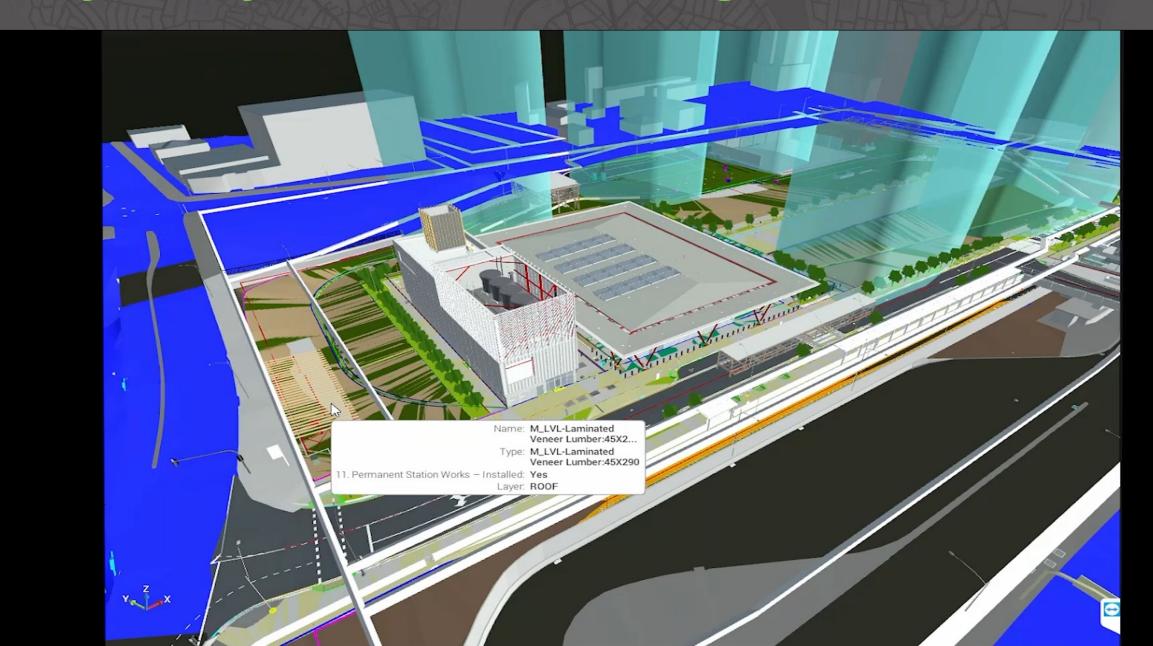
Project Control

A single, federated BIM model

- Data as per spec set by CRRDA
- 20 million separate digital assets
- Updated as often as every 4 hours
- Not a Digital Twin...yet



A day-to-day tool we use to design and deliver CRR

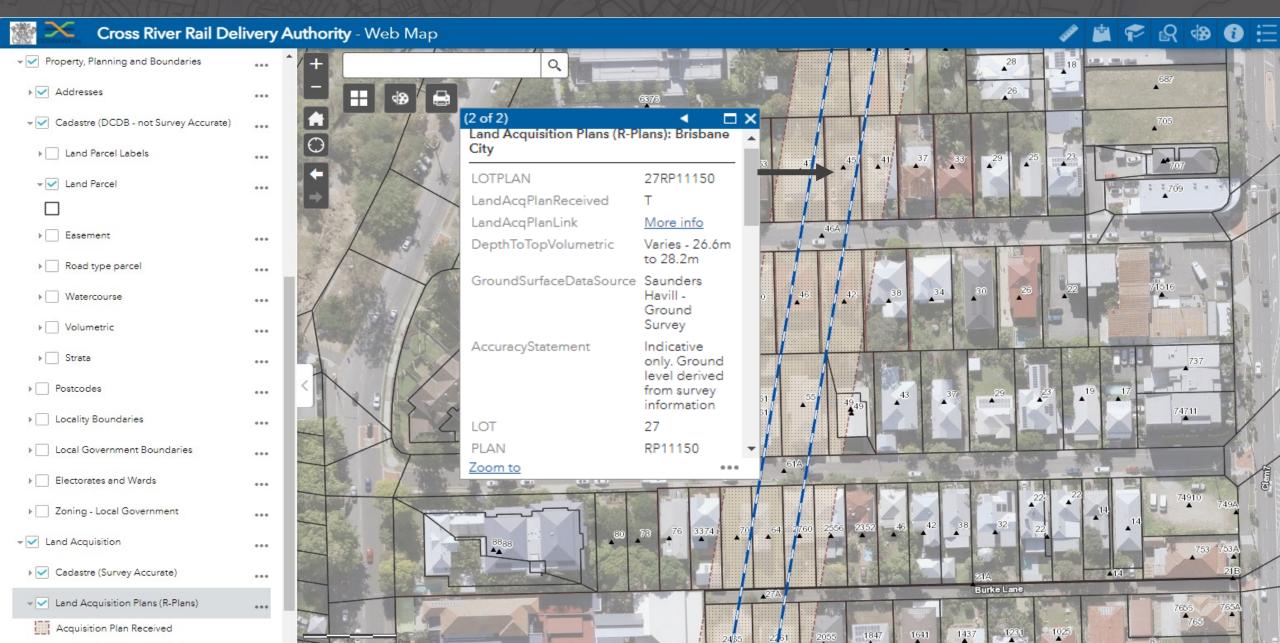


BIM also moving forward visually





GIS meanwhile has gone on a journey from 2D maps...



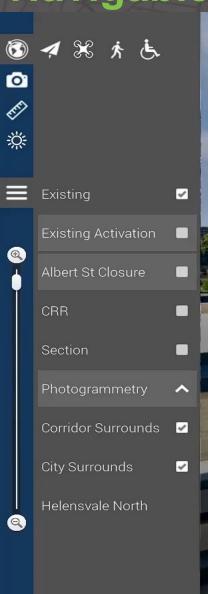
...to rudimentary 3D landscapes (with BIM data poking through)



Then the VIS model approach brings everything to life



Navigable first person using simple controls





Helps pre-plan public realms and civic spaces



Project DNA 2.0

- Photo-real and technically accurate 3D digital environments
- Used for acceptance & assurance
- Will also aide testing, training, commissioning and operational readiness

Practical benefits (for now):

- De-risk system integration
- Find/enables time savings
- Assist stakeholder briefings & community engagement
- Drives 6D maintenance and operation conversations
- Enables 7D real time operation vision





Customer journey mapping





