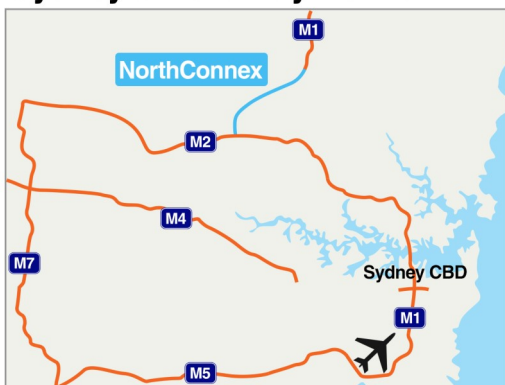


12d Synergy helping to manage NorthConnex data models



A U S T R A L I A

Sydney's Motorway Network



Customer

Bouygues Construction and Lend Lease (Joint Venture)

Industry

Transport

Project

NorthConnex

Need

Managing 12d Model data and related project data

Benefits

- Manage the central data model
- Share data with permissions-based access control
- Only the latest data is shared
- Complete audit trail for all data

NorthConnex is a significant infrastructure project that will connect two of Sydney's major motorways – the M1 and M2 – to provide a segue between Sydney's primary route north of the city to Newcastle and beyond. It will create twin motorway tunnels around nine kilometres in length stretching from West Pennant Hills (M2) to Wahroonga (M1) with a height clearance of 5.3m and long term capacity for three lanes.

Like in most infrastructure projects, NorthConnex surveyors from Bouygues Construction and Lend Lease are using the 12d Field surveying application on their tablet PCs. 12d Synergy was adopted to manage the Central Database Model (CDM) and synchronise data from the CDM to the surveyor's tablet PC which operate 12d Field.

The implementation process was rapid, with training delivered in three stages to accommodate the hectic work schedule.

The design models are received from the consultants, loaded into 12d Synergy and integrated into the (CDM) by the Survey Managers. Each project has complete version control and full audit history of each change with rollback ability. Data synchronisation from the CDM to surveyors' tablets can be configured to perform overnight or on demand, and the Survey Manager is notified when the data has successfully been synchronised.

When surveyors return from the field and dock their tablet PCs, data such as build surveys, Quality Assurance (QA) reports and 12d field files (the surveyor's electronic field book which includes all instrument measurements) are automatically pulled back into the 12d Synergy system. This data proceeds through the QA process and can be integrated back into the CDM by the Survey Managers.

Additionally, individual tasks for the survey team can be assigned and managed through 12d Synergy.

About Bouygues Construction

Bouygues Construction is a construction and civil engineering company active in over 80 countries. A world leader in tunneling – more than 400km of tunnels bored in the past ten years – it has completed major projects including the Sydney Airport Rail Link, North Strathfield Rail Underpass and the Tuen Mun-Chek LapKok tunnel (Hong Kong's deepest and longest sub-sea road tunnel).

About Lend Lease

Lend Lease is a multinational property and infrastructure company which built the Gateway Bridge duplication and Clem Jones tunnel in Brisbane, and the Anzac Bridge in Sydney.

