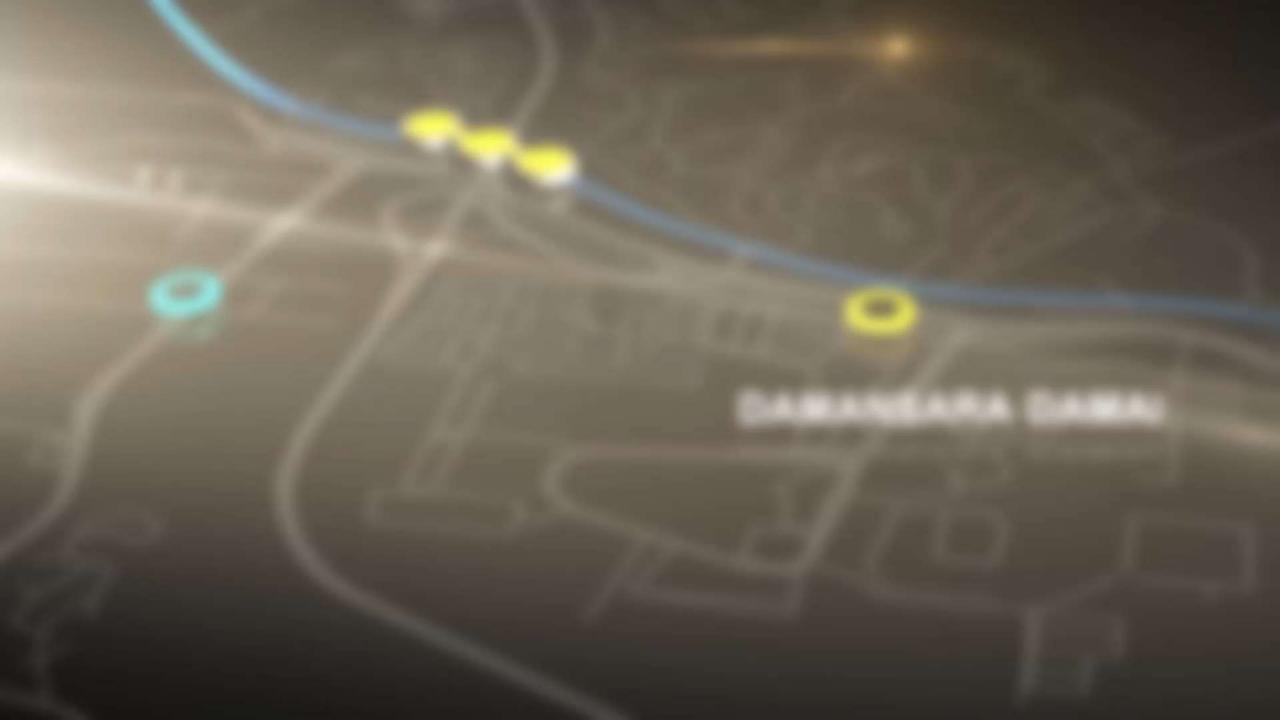


CLICK HERE TO KNOW MORE





Project Brief – Alignment and Stations

Line 2 SSP LINE

52.2

Elevated 38.7

13.5

Stations 37

26 Elevated UG

Ops Ph1 Q2



http://www.mymrt.com.my/hawk-eye-view/



Project Challenges – Planning/Design

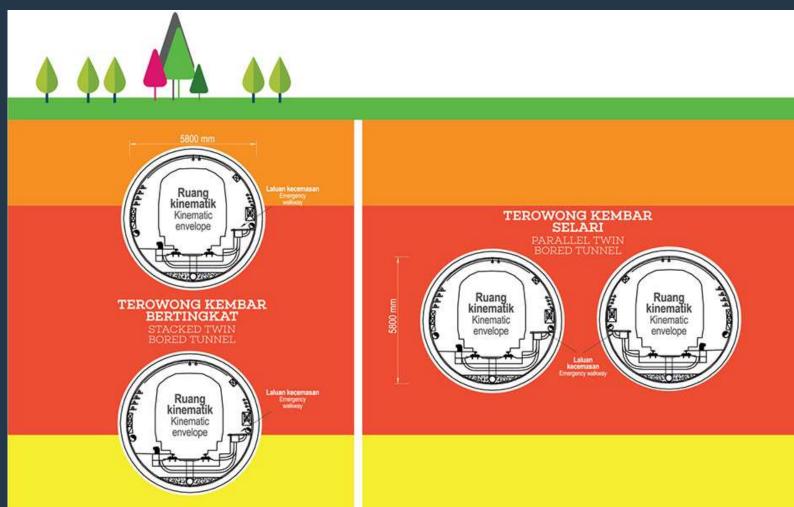


Planning	Construction	Operation	Maintenance	Decommission
ACONEX ComplyServe		Common Data Environment (CDE)		
Elevated		Underground		
Stations		Tracks		MSPR
Alignment	Architectural	Civil Structural	Construction	Equipment
GIS	Geotechnical	Electrical	Mechanical	Survey
Traffic Management	Tunnel	Tunnel Ventilation System	Utilities	Lift Escalators
Assets	Tracks	System	Passenger	Contract

Project Brief – Technical Design







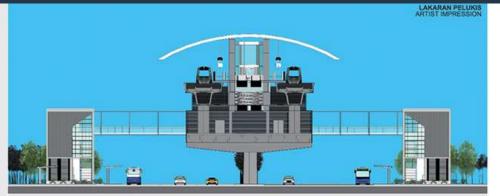
Elevated Guideway Design

Tunnel Design

Project Brief – Technical Design







STESEN DENGAN PLATFORM TENGAH
ISLAND PLATFORM STATION



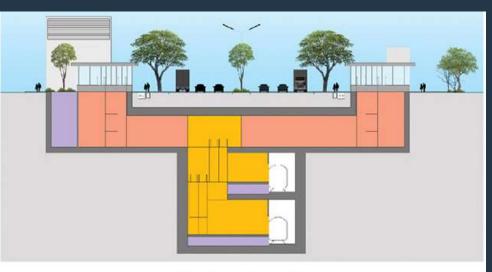
STESEN DENGAN PLATFORM SISI SIDE PLATFORM STATION





STESEN DENGAN PLATFORM TENGAH
ISLAND PLATFORM STATION

CROSS SECTION

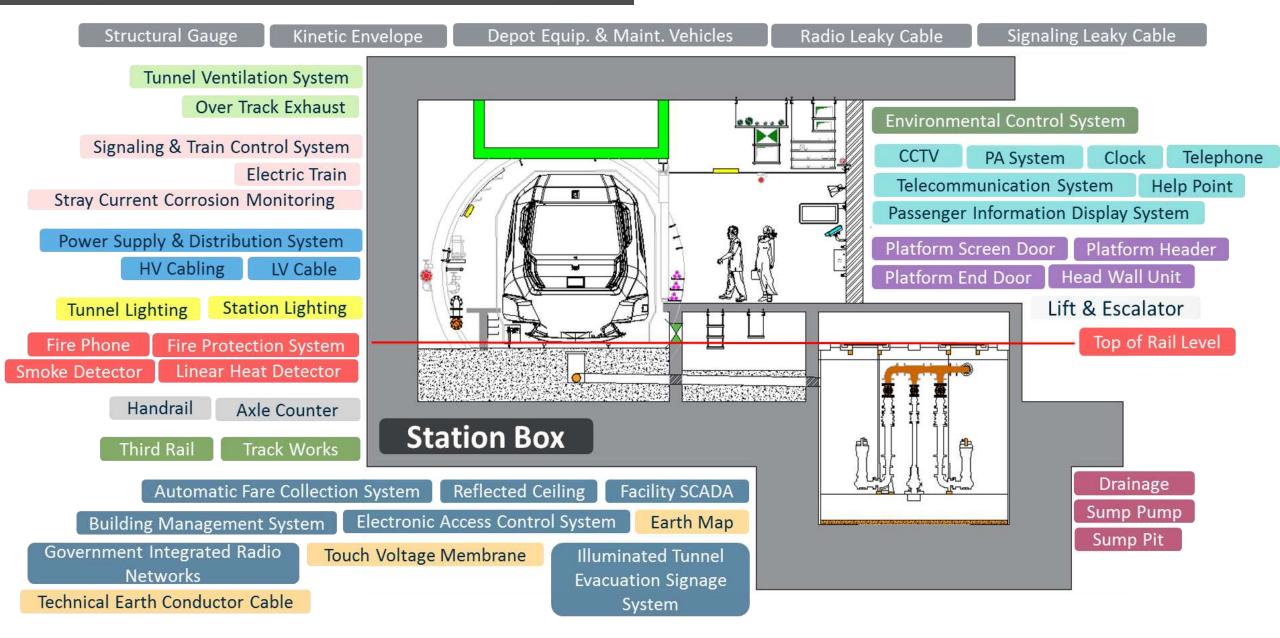


KERATAN RENTAS CROSS SECTION

STESEN DENGAN PLATFORM BERTINGKAT

STACKED PLATFORM STATION

Project Brief – Technical Complexity



BIM Programme



BIM Objective

"An effective **control** of the project **information** to be **shared**, used without loss, contradiction or misinterpretation for the whole project life cycle"



"To adopt an integrated approach to achieve Level 2 on BIM maturity for SSP Line 2 design, procurement, delivery, construction, operational & maintenance and asset management"

BIM Programme



2015

Plan

- BIM White Paper for SSP
- Employer Information Requirement (EIR)
- Function Requirement for Common Data Environment

2016

Execute

- Award of Common Data Environment (CDE) to Bentley
- CDE Go Live
- Forming of BIM Working Group & Steering Committee
- Published Project Glossary & Naming Convention

2017

Develop

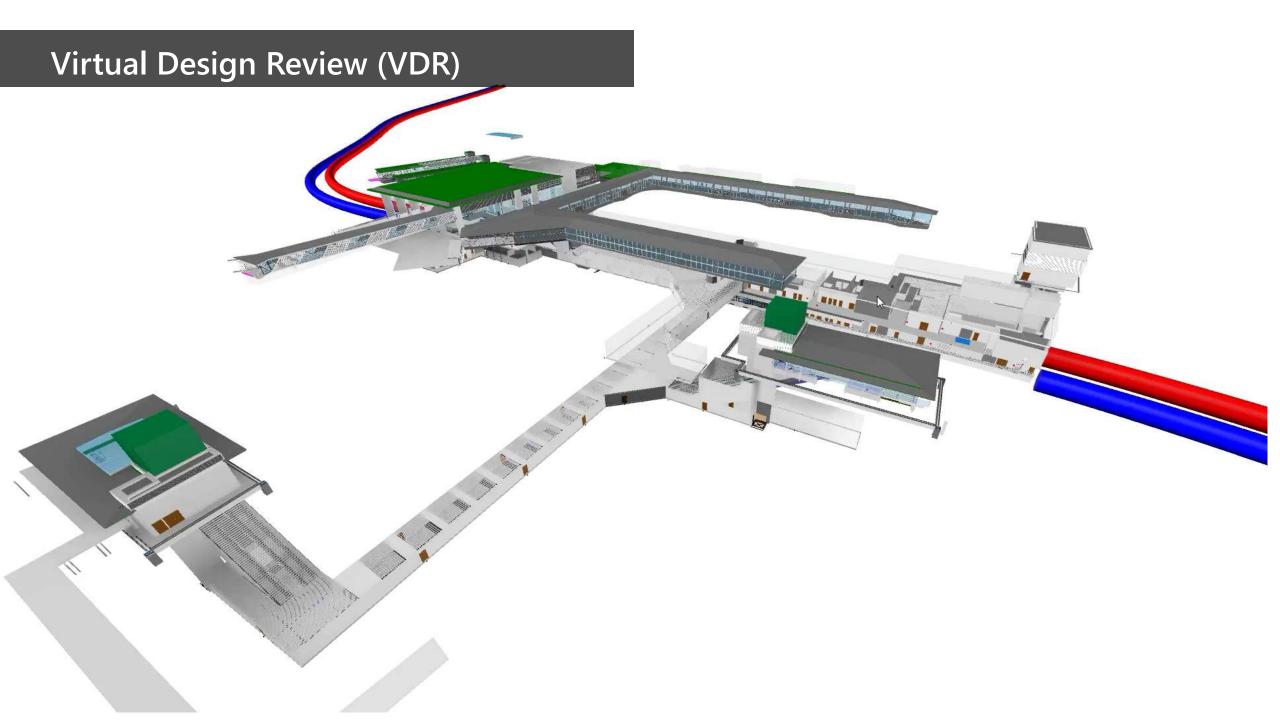
- KVMRT Classification Standard
- BIM in Rail Academy Centre (BIRAC)
- Finalist in Bentley Year in Infrastructure "Be Inspired " competition
- BIRAC open house and BIM Forum

2018

Roll-Out

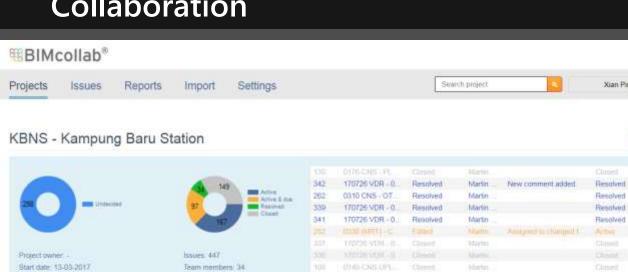
- Accreditation of BIRAC training programme
- Roll out training module to SSP work package contractor & supply chain
- Publishing BIM White Paper for Digital Engineering

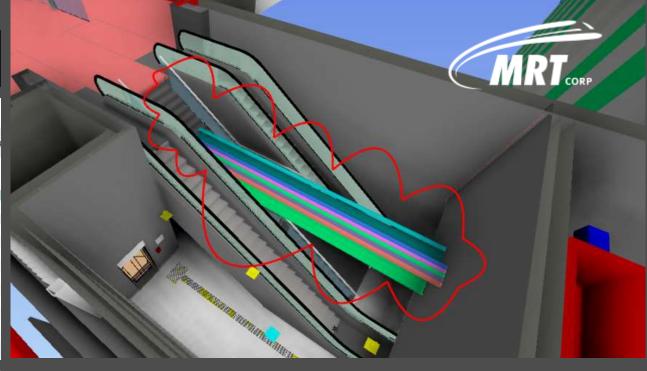
BIM Programme AECOsim STAAD.Pro Common Data Environment ProjectWise & eB AECOsim & STAAD Pro Document Management System Naviswork Bentley ComplyPro BIM Model Checker IFC & imodel Interoperabili A360 BIM Web Portal **88**BIMcollab ContextCapture BIM Issue Management



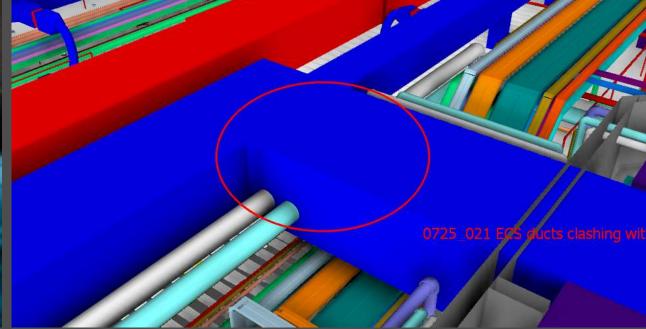
Collaboration

End date







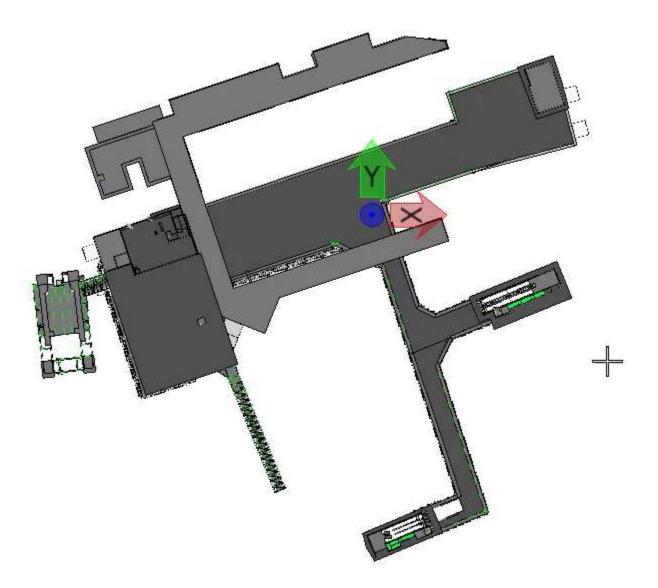


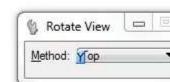
Reality Modelling





Construction Monitoring



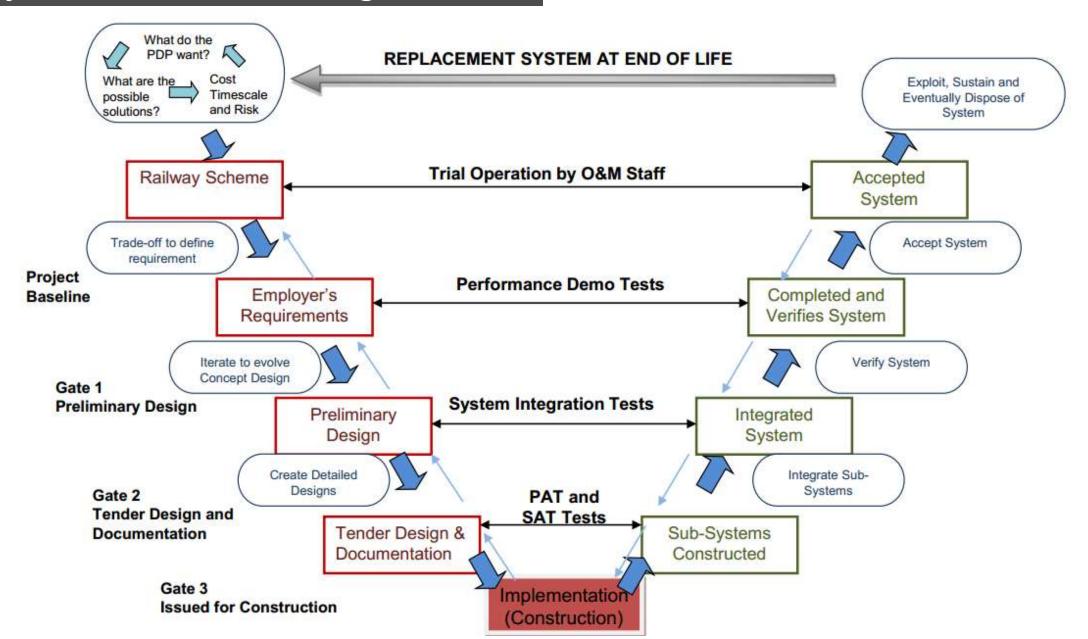








Project Brief – Stations Design



Project Challenges – Planning/Design



Stations Civil Works SBG, UPS, Furniture, Ironmongery Signage Noise Barriers, Lift & Escalator BMS/EAC/CPM LED

Designated Contractors

11
package

Designated
Supplier
7
package

Nominated SubCont'tor 10 package



Professional 300+

Total
66
ackages

Work
Package
38
packages

Designated Contractors/Suppliers



Work

2
package

Pylon works

Underground

1

package

Tunnel UGW Stations Enhancem't

Contractor

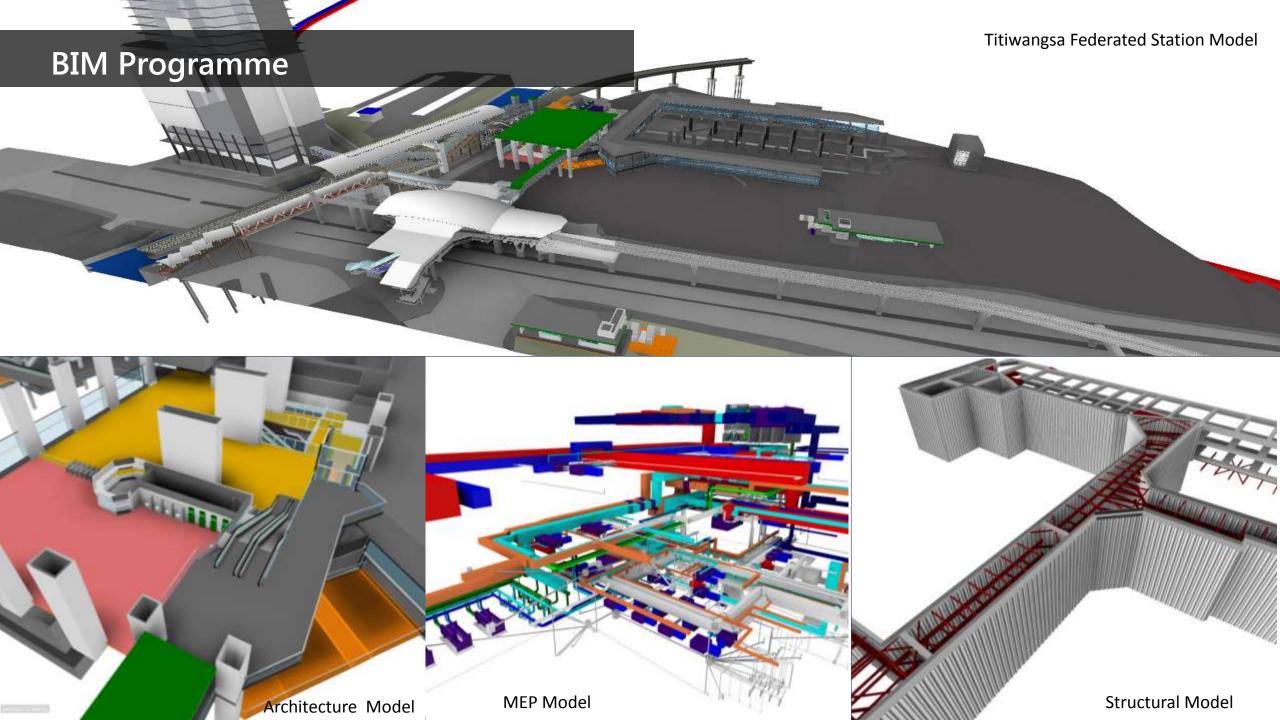
Linewide (LW)

Civil & Infra
27
package

Elevated civil work / Viaduct Depot MSPR Systems
Works
7

Electric Trains + Depot Equip.
Traction Power Supply & Distribution (LV-Transformer Signaling & Train Control System + PSD Track Works + Maint. Vehicles
ICS + CMMS, Comms + IT Facilities + GIRN & AFC





BIM in Rail Academy



BIM Leader Course (Corporate)

- BIM Business Value 1
- BIM Business Value 2

BIM Manager Course (Management)

- BIM Planning & Execution
- BIM Contract & Legal
- Model Clash Analysis, Collaboration & Review
- Planning & Construction Sequence
- Construction Simulation
- Cost Estimation & QS
- Advance Model

BIM Engineer Course (Engineering)

- MEP Fundamental Modeling
- MEP Advanced Modeling
- C&S Fundamental Modeling
- C&S Advanced Modeling
- Archi Fundamental Modeling
- Archi Advanced Modeling
- Model Clash Analysis, Collaboration & Review
- BIM for Asset Management
- Laser Scanning Acquisition and Processing coming soon
- Geographic Information System