

Deep-dive Meeting with Google

Introduction of Building Information Modeling in MTR

Date: 18 Mar 2011

BIM in MTR

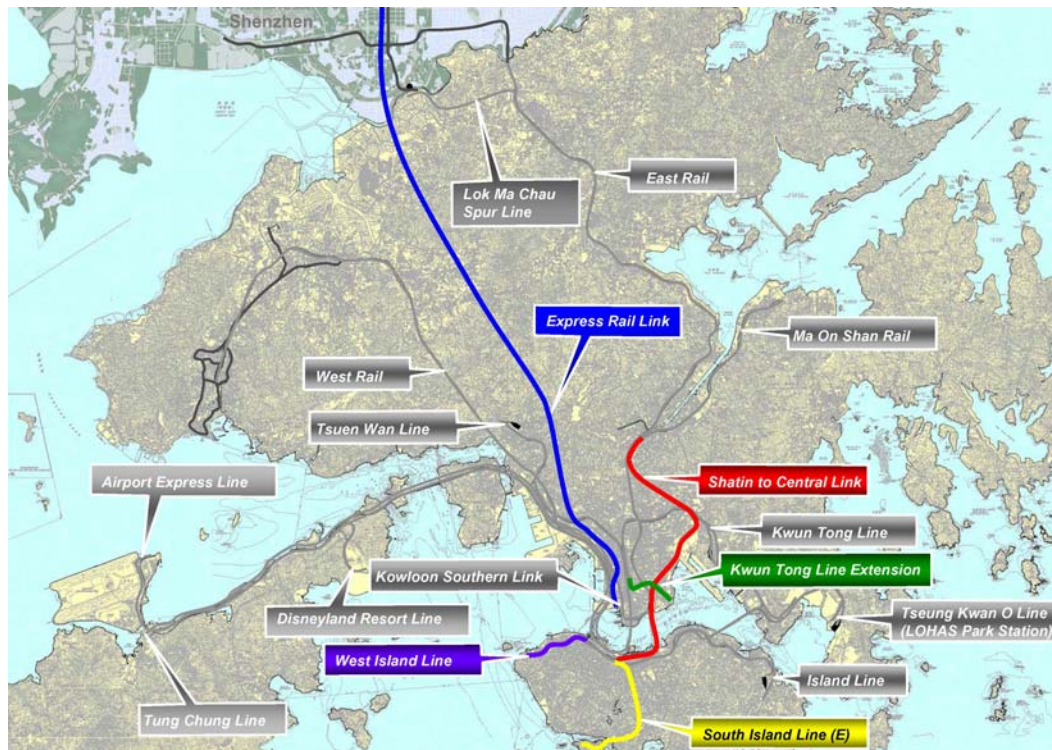
Building Information Modeling (BIM) is the process of generating and managing **parametric building data** during its life cycle.

Planning

Design

Construction

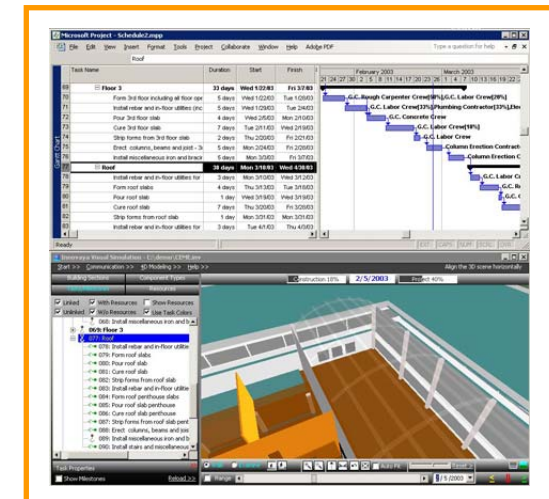
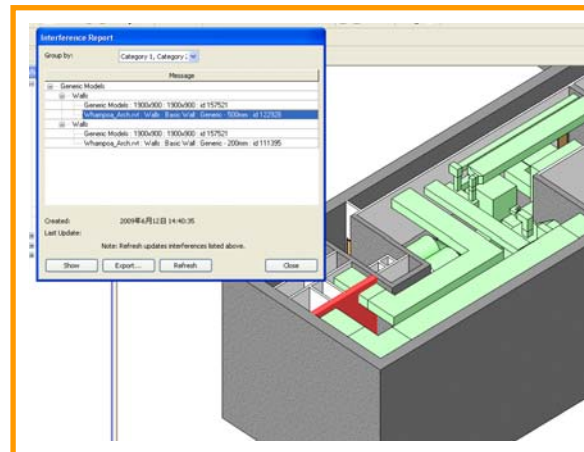
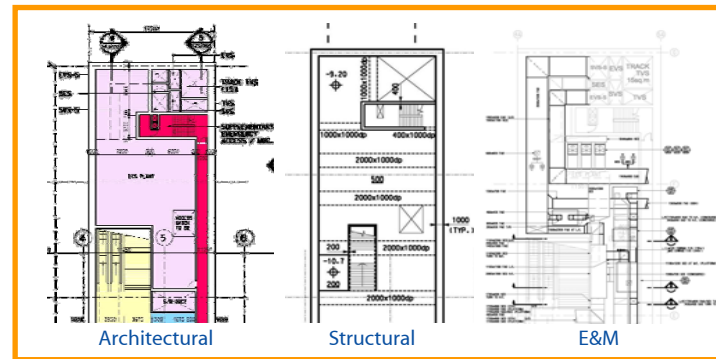
Operation & Maintenance



BIM Application – Project Phase

To explore application of BIM throughout Project Life Cycle

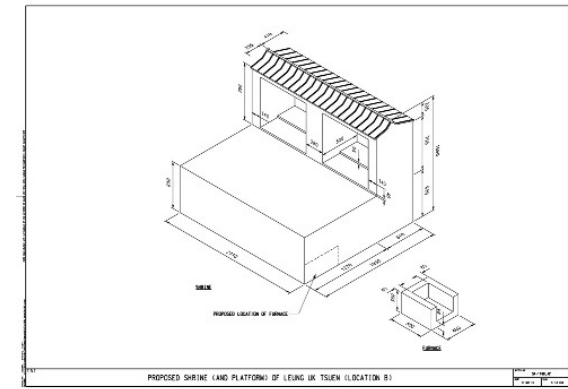
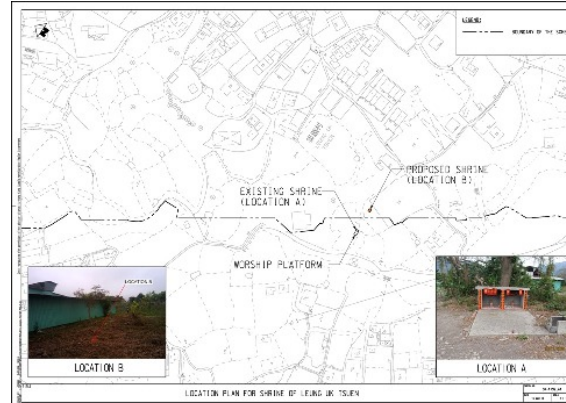
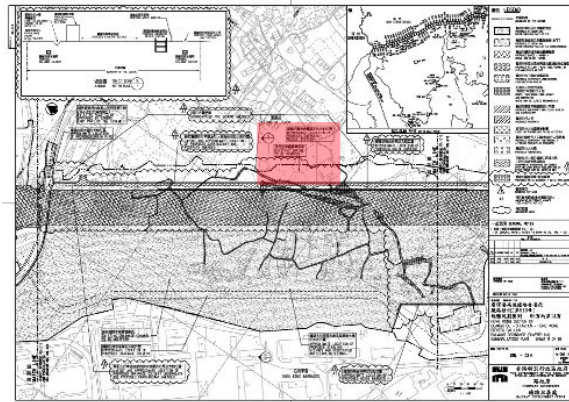
- Design Coordination
- Visualization
- Clash Analysis
- Timeline (4D Simulation)



BIM Application – Project Phase

e.g. Planning stage

- Traditional way to present on drawings

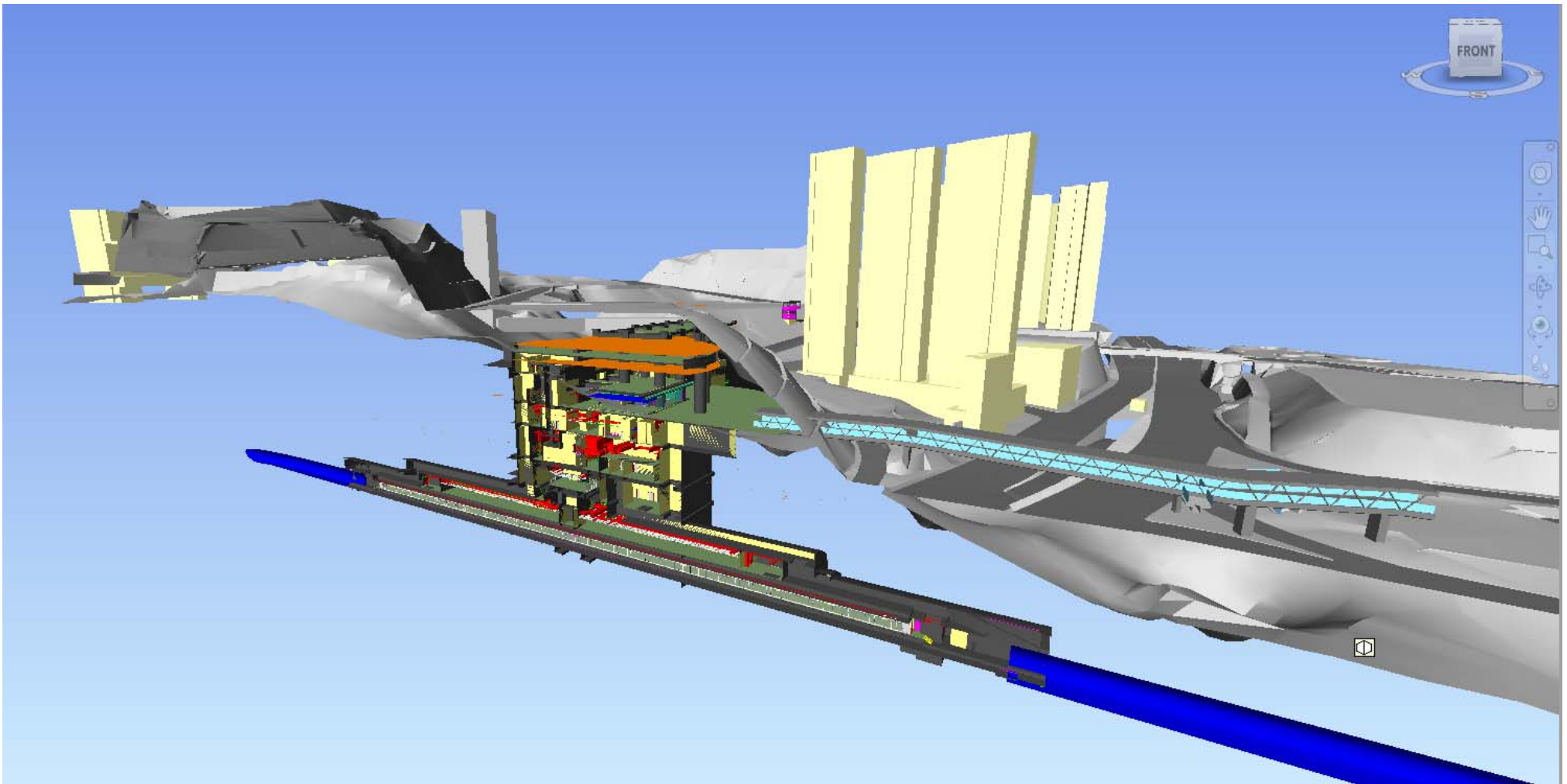


- Easier now to visualise and map the design with 3D model and Google Earth



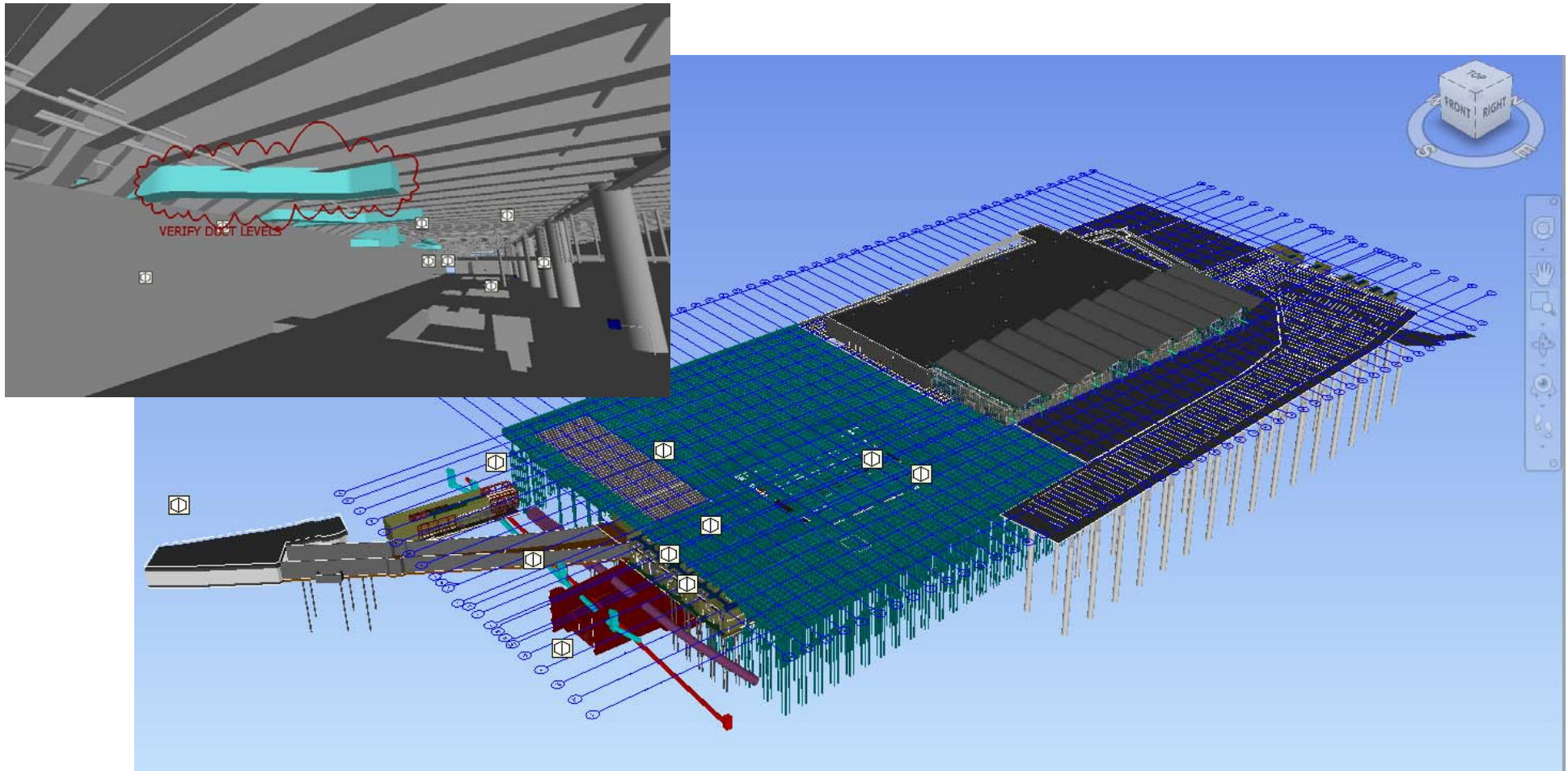
BIM Application – Project Phase (KTE Pilot Project)

e.g. Ho Man Tin Station (Design & Construction)



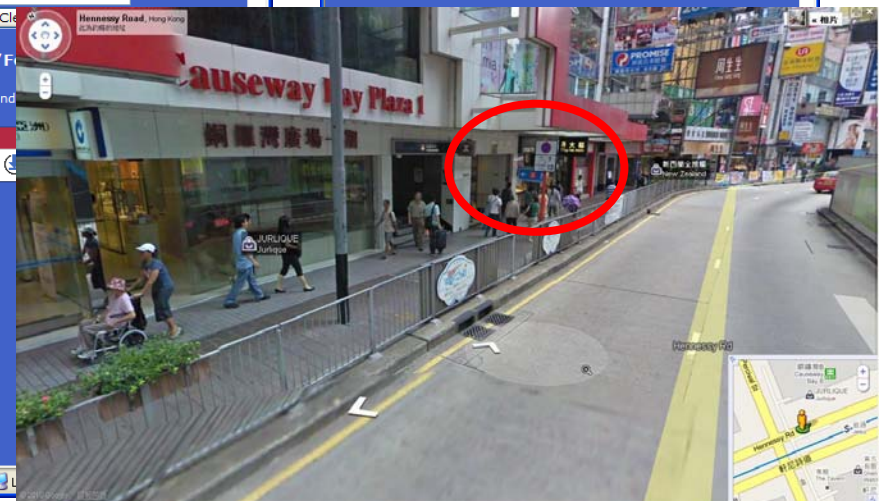
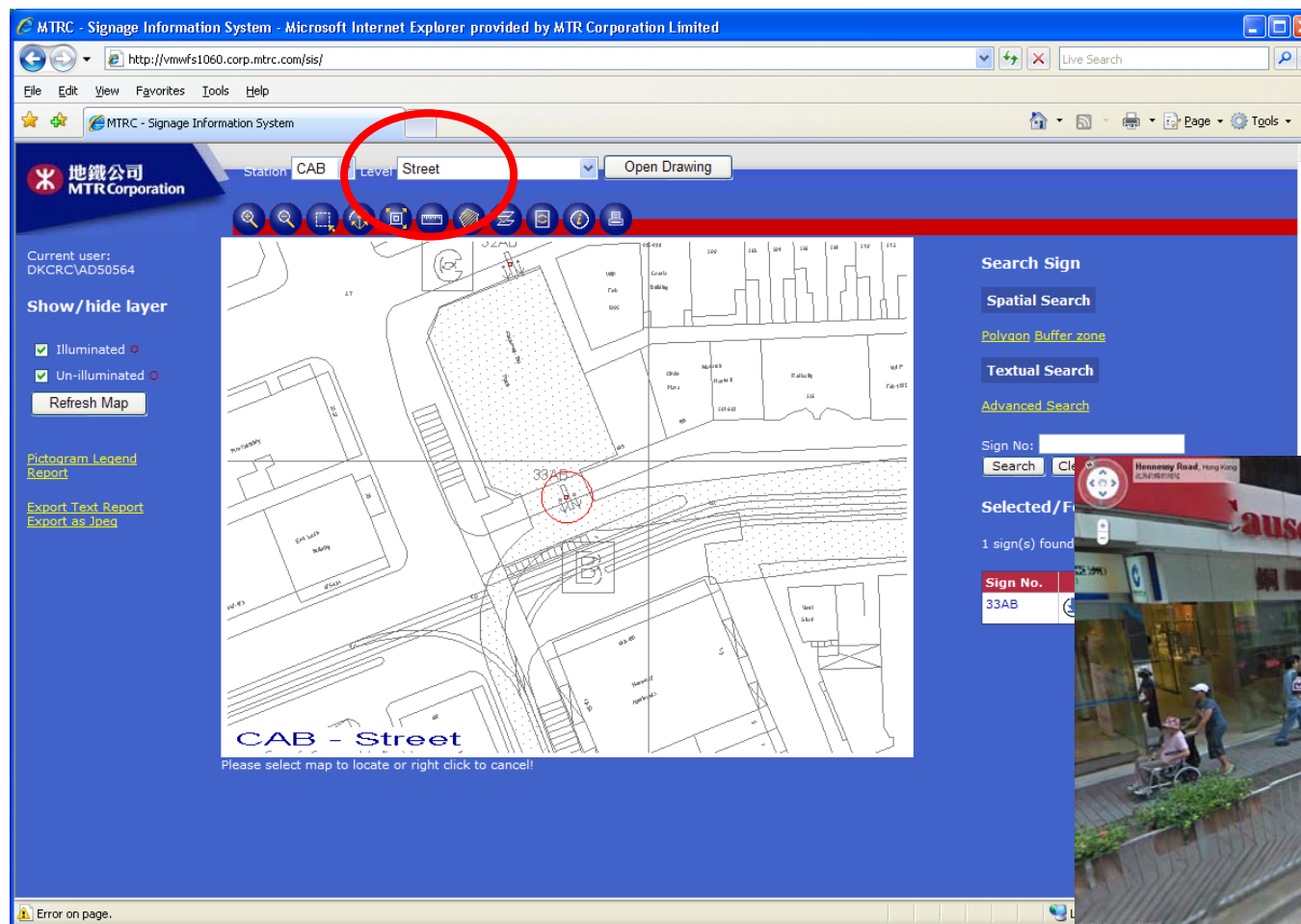
BIM Application – Project Phase (SCL Project)

e.g. Hung Hom Station (Design)



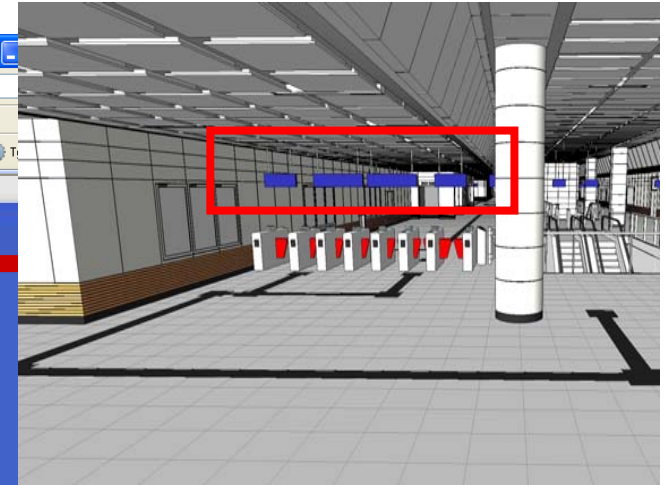
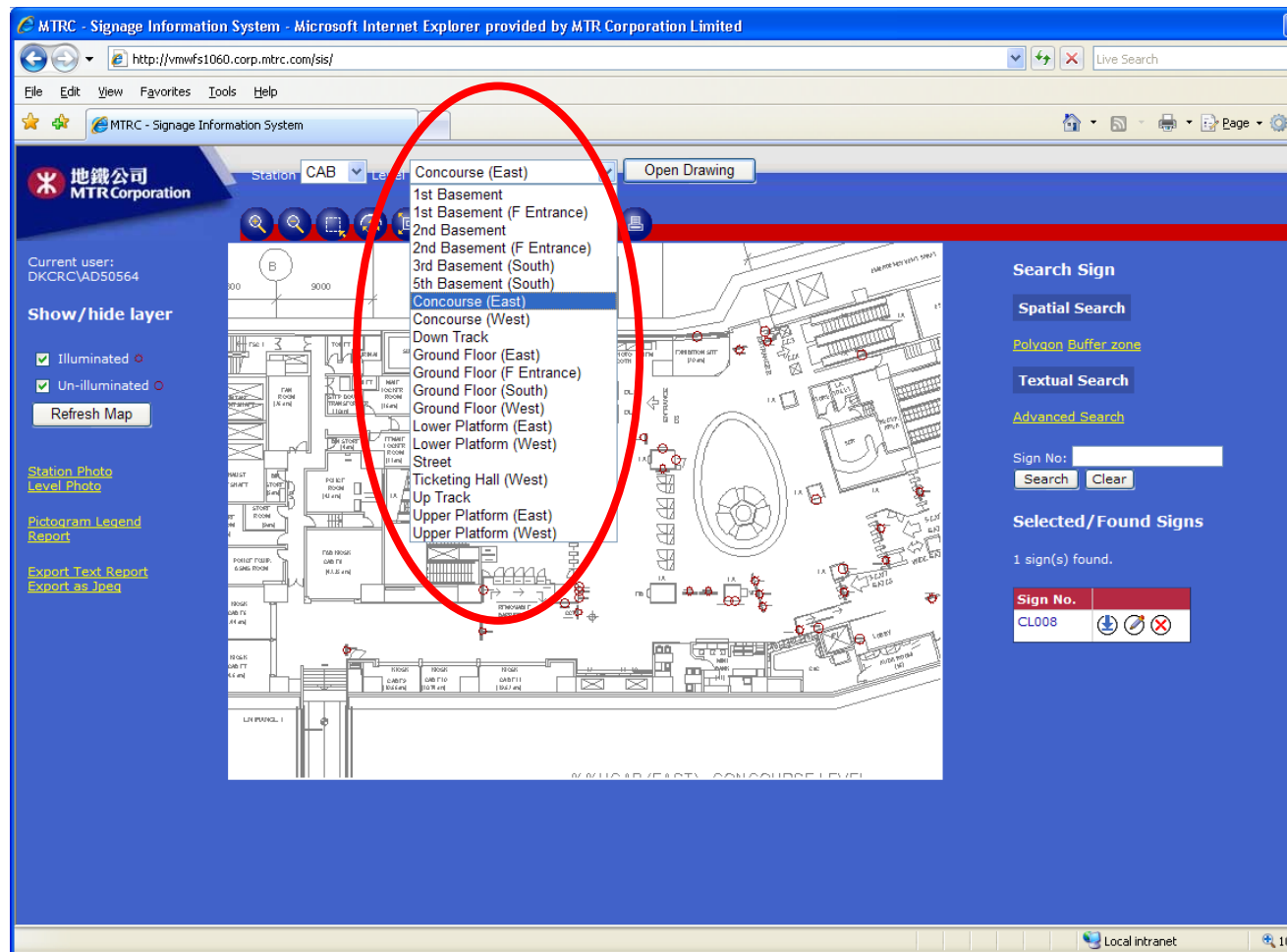
BIM Application – O&M Phase (SIS)

Signage Information System for Marketing



BIM Application – O&M Phase (SIS)

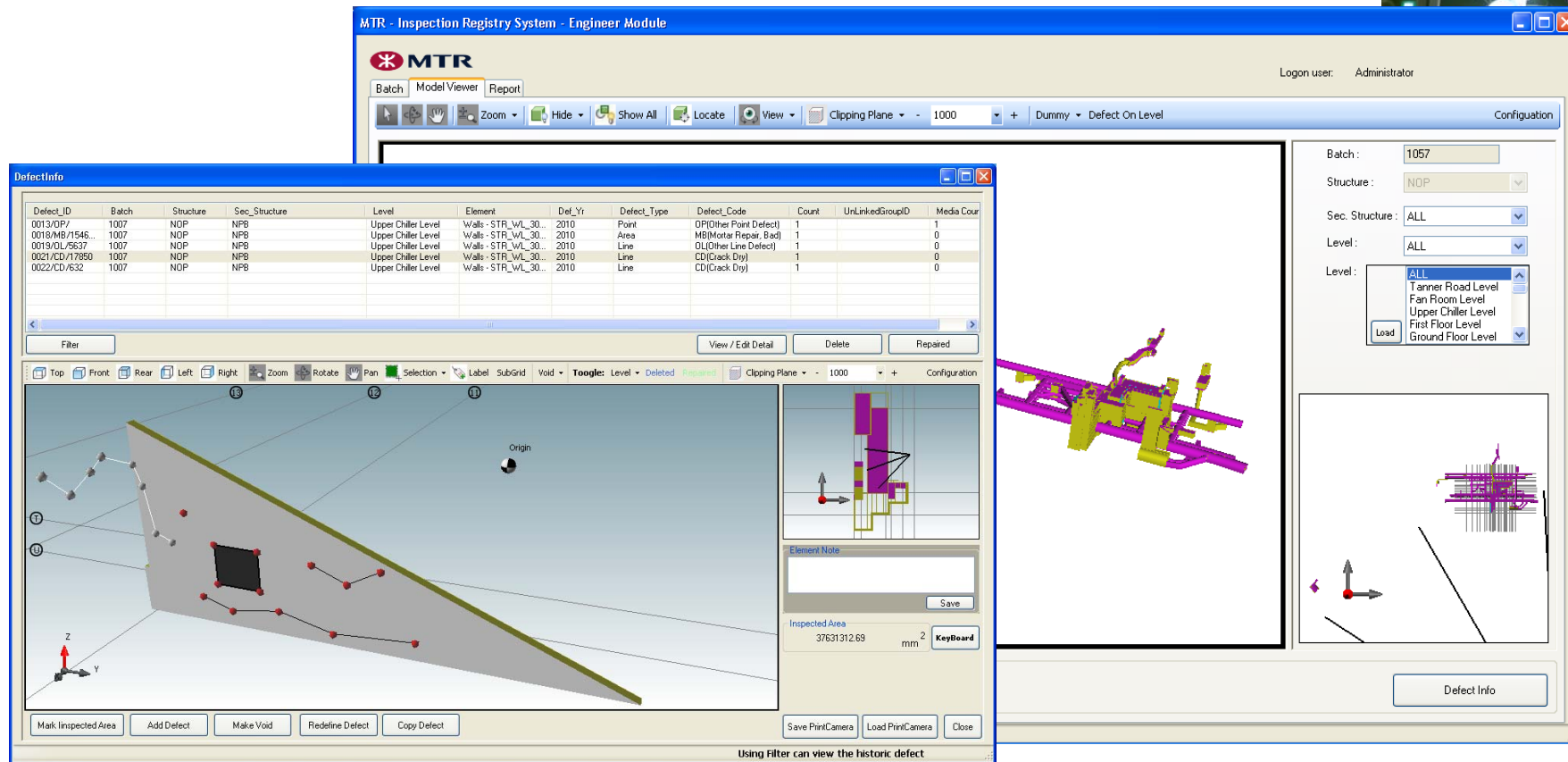
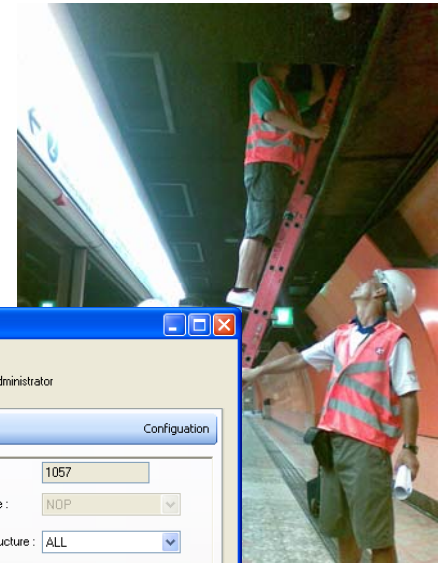
Signage Information System for Marketing



BIM Application – O&M Phase (IRS)

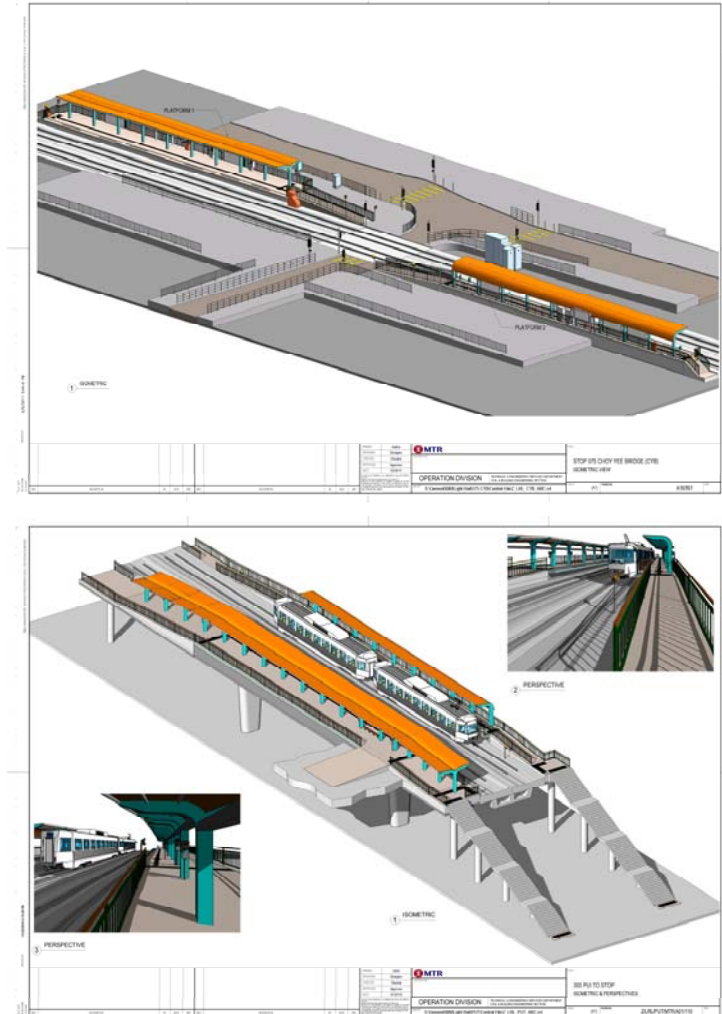
Inspection Registry System (IRS) for Maintenance

- Capture structural defect data of existing MTR stations
- Store and retrieve defect data in BIM model



BIM Application – O&M Phase

BIM for Light Rail Stops



BIM Application – O&M Phase

BIM for Island Line Stations

MTR Creators - Integrated Facility Engineering - Building Information Models (BIM) for Island Line Stations - Microsoft Internet Explorer p

http://creators.mtr.com.hk/fe/Wiki/Building%20Information%20Models%20(BIM)%20for%20Island%20Line%20Stations.a

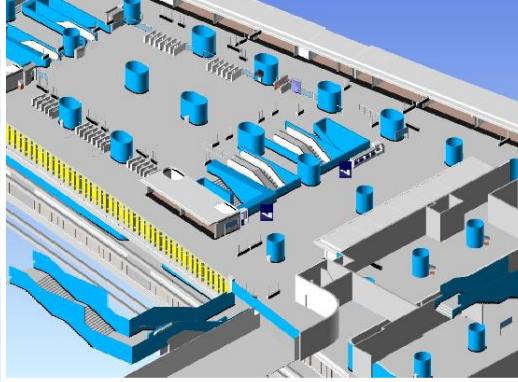
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MTR Creators > MTR Creators - Integrated Facility Engineering > Wiki > Building Information Models (BIM) for Island Line Stations

Building Information Models (BIM) for Island Line Stations

History



Below is a list of Island Line Stations' Building Information Models (BIM) which are recently created by T&ES/C&BES converted into NavisWorks (.nwd) format which can be viewed by a free viewer called NavisWorks Freedom. To ap view these model, please click below link, fill in your information and submit to ITSD:-

<http://hqsrf01/webagent/FormTrigger.aspx?workOrder=NavisWorks%20Freedom%20Software%20Requisition%20F>

List of ISL Station BIM

BIM Models	Station	Abbreviation	Model Revision Date
Architectural	Sheung Wan	SHW	
Structural	Central	CEN	
	Admiralty	ADM	
	Wan Chai	WAC	8 February, 2011
	Causeway Bay	CAB	
	Tin Hau	TIH	
	Fortress Hill	FOH	
	North Point	NOP	
	Quarry Bay	QUB	
	Tai Koo	TAK	
	Sai Wan Ho	SWH	
	Shau Kei Wan	SKW	