



**CONSTRUCTION  
INDUSTRY COUNCIL**  
**建造業議會**

# **Good Examples of Technology Adoption and Manpower Development Programmes funded by the CITF**

**28 November 2025**

# Building Information Modelling (BIM)

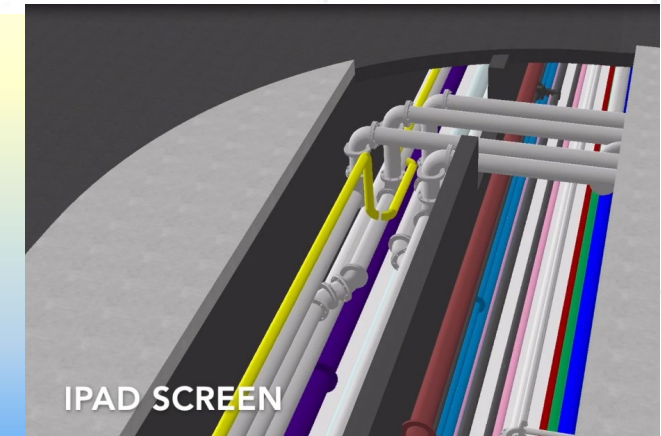
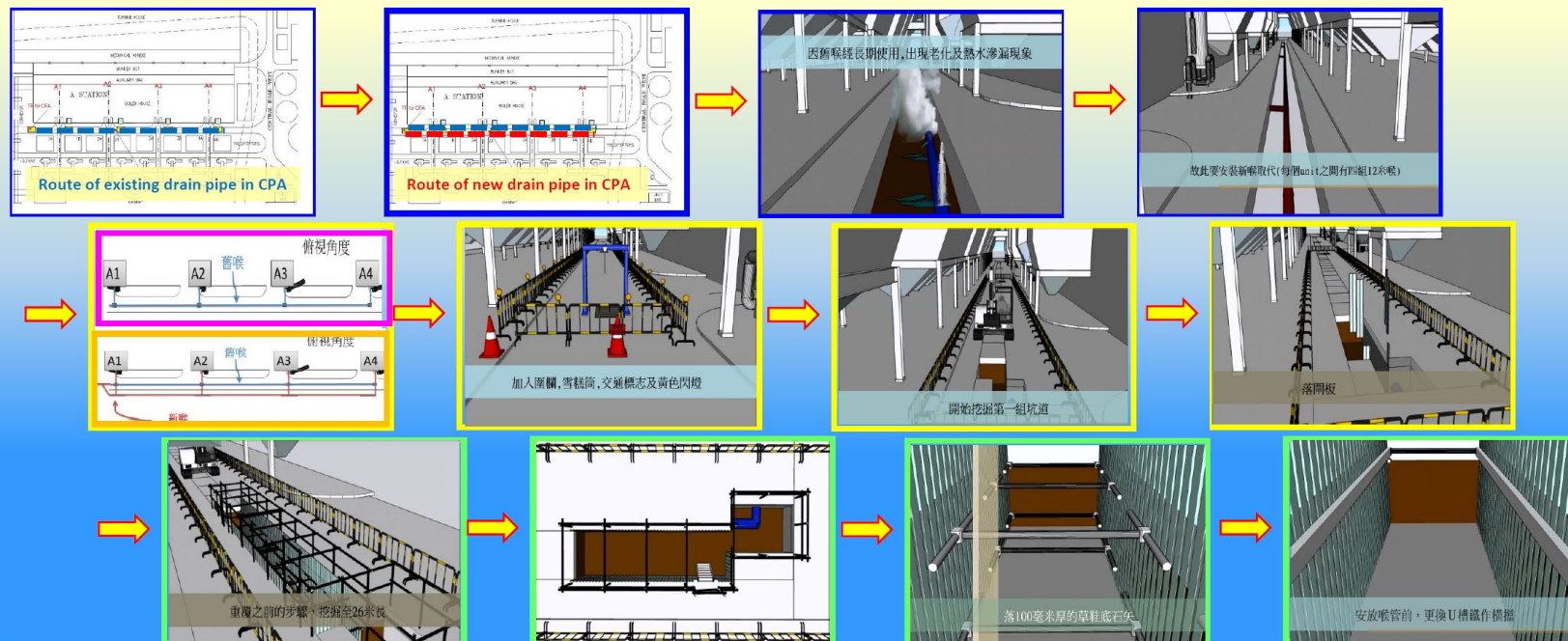


# BIM Case Study 1

Submission ID:	1718
Product:	PBS18-003 AutoCAD Revit LT Suite Commercial New Single-user ELD Subscription
Site:	CPPS Boiler Blowdown Common Drain Modification, Castle Peak Power Station
User:	Contractor (SME)

Use:	Addressing all foreseeable risks with manageable mitigation actions
Merits:	<ul style="list-style-type: none"> <li>Better understanding on design and construction details leading to cost reduction by 8%</li> <li>Co-ordination time ↓ 8%</li> <li>In-advance simulation of work sequence allowed better safety planning and performance</li> </ul>

## Apply BIM for Trench Excavation and Installation of Shoring Sheets & Concrete Layer



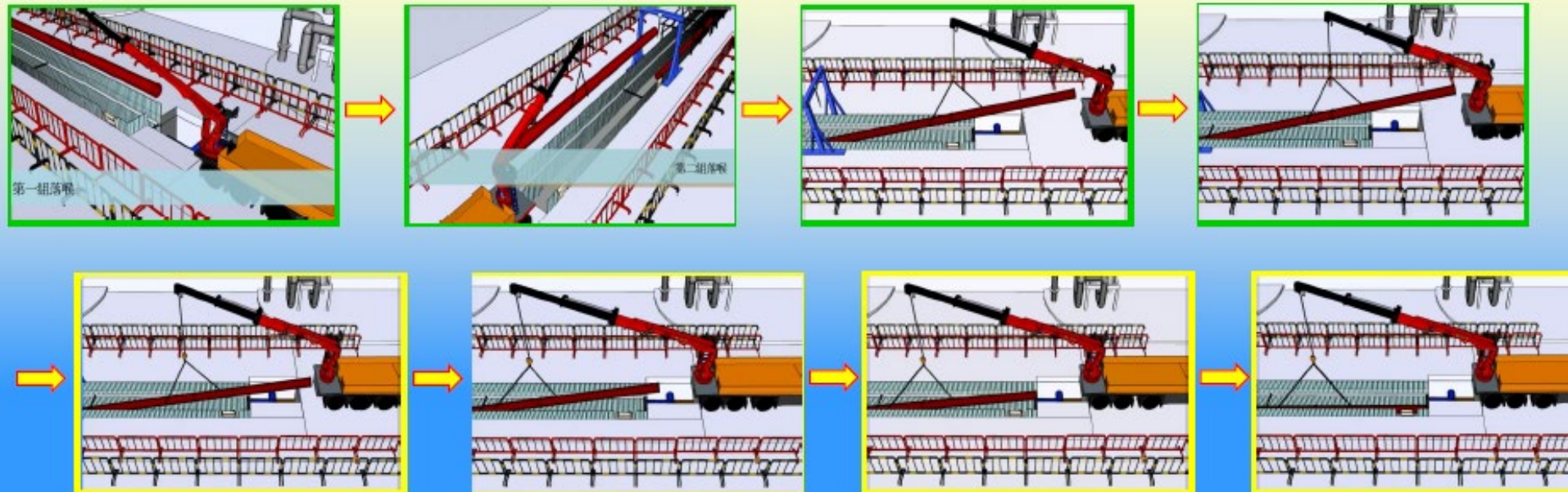
Visualisation of Work Sequence in BIM model

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## Apply BIM for Pipe Laying



Visualisation of Work Sequence in BIM model

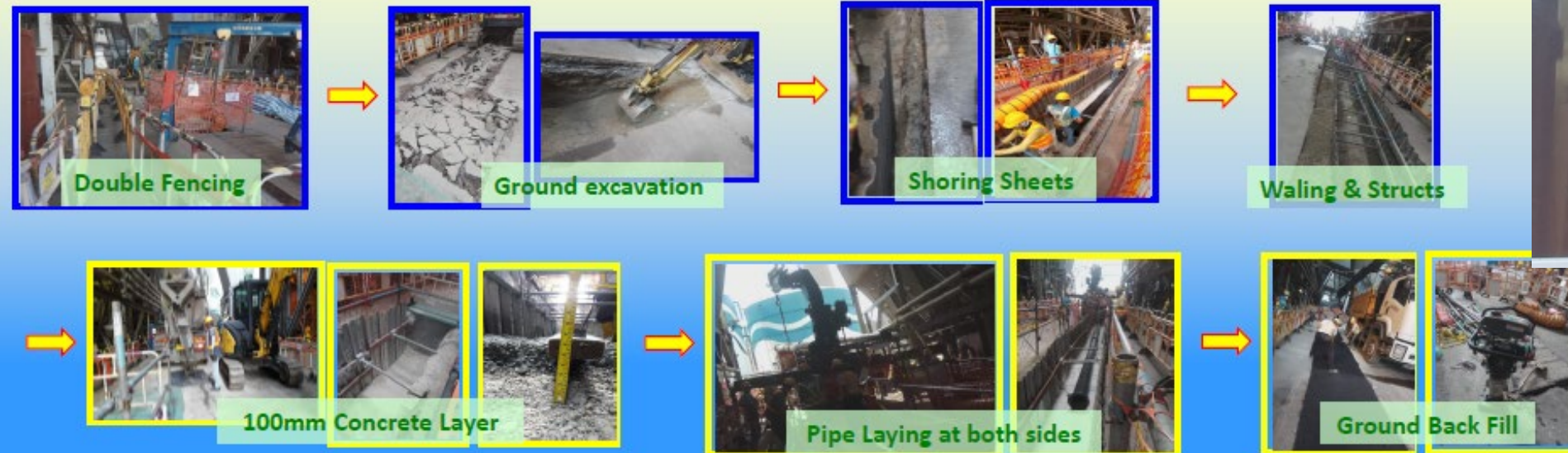


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## Photo Album For Site Work for Pipe in A4 Boiler



Visualisation of Work Sequence in BIM model on Site for Project Team's Reference

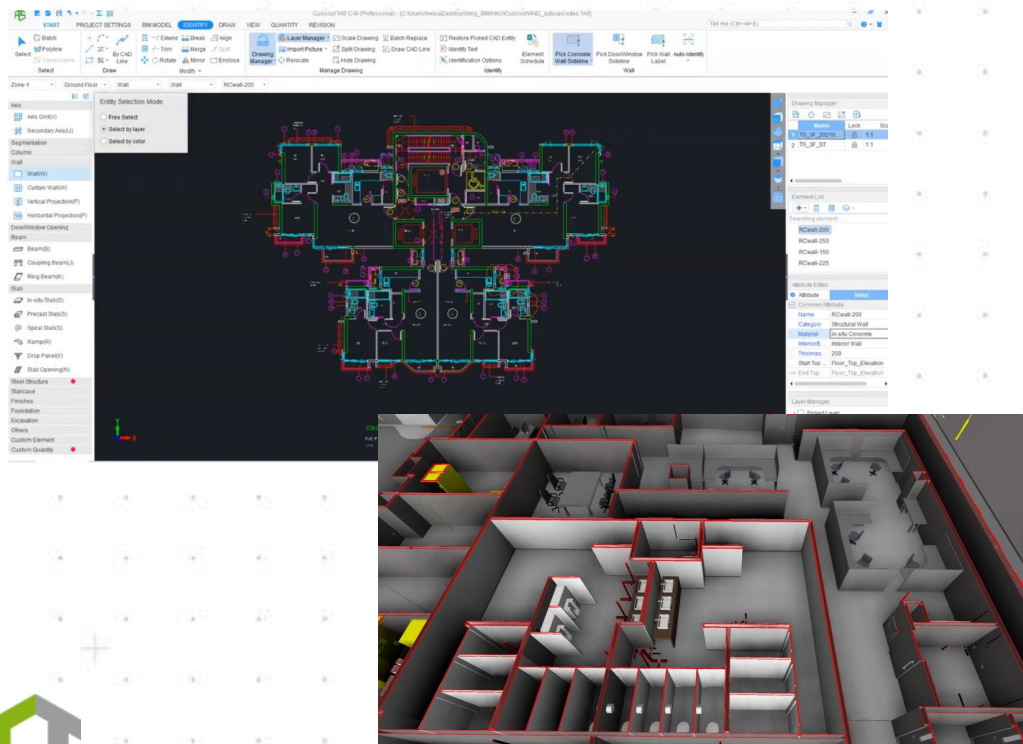


# BIM Case Study 2

Submission ID:	5695
Product:	PBS19-005 Cubicost TAS
Site:	1224-Place Student Residence at Police School Road, HKU, Wong Chuk Hang
User:	Sub-contractor (Non-SME)

Use:	Automation for measurement for tender estimation
Merits:	<ul style="list-style-type: none"> <li>↑ 200% (Traditional 21 man-day -&gt; 7 man-day)</li> </ul>

Cost table are stored in Cubicost library. Commercial team can reuse the information from previous projects. Mistake can be avoided, and good practice can be referred due to lesson learnt from a central library.



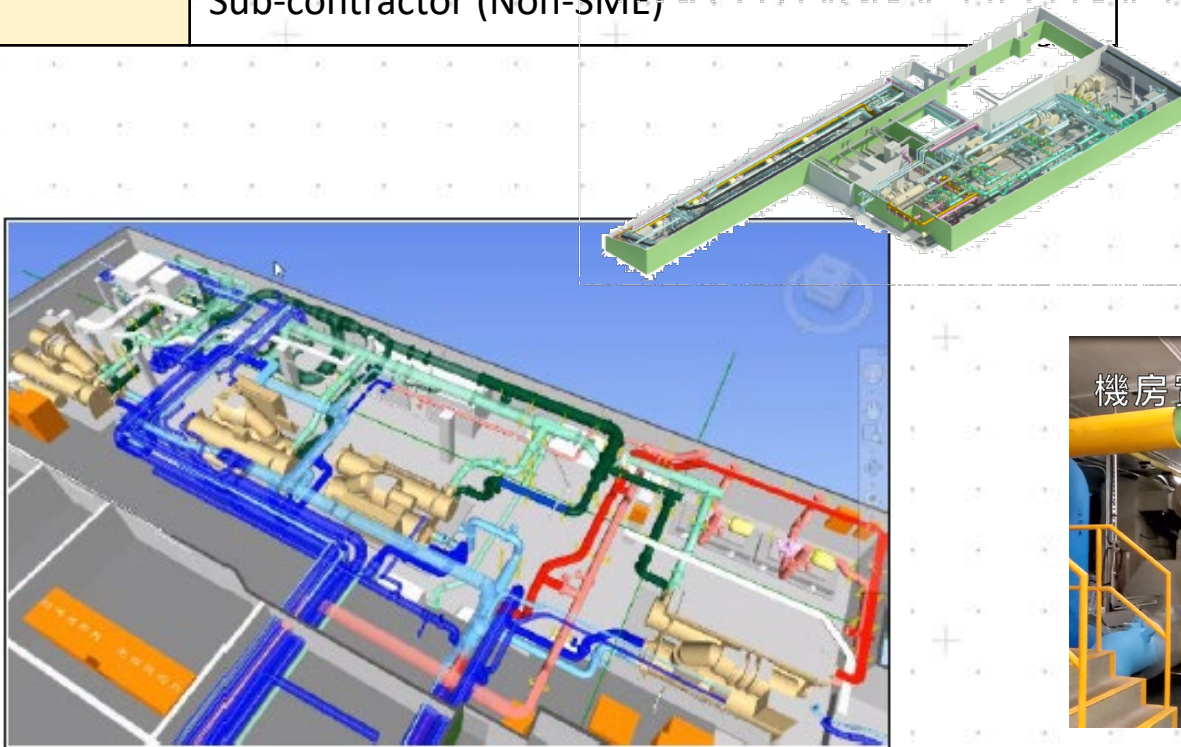
Identify Schedule									
Identify Element Schedule					Identify Finish Schedule				
Import Excel File	Select CAD Data	Clear Import	Import		Delete Row	Delete Column	Merge Rows	Merge Columns	Batch Replace
					Copy Row	Copy Column			
Operate Grid									
Worksheet:		Element Group:	Column	Element Type:	Column	Minimum Unit in Drawing:	mm	Identify Single-Section Data as:	Radius
1	2	3	4	5	6	7	8	9	10
1 Name	Width * Height	Summary Info					Steel Ratio	Remarks	Correspon...
2 Column Ref.:								RC243	Zone-1[1]
3 Level	Size	Reinforcement	Steel Section	Links	Elevation Type	Section X-X	Concrete Grade	Remarks	Zone-1[1]
4 Basement 4	900x900	28T40	UC3	T10-100	B	23-23	C100	Comp C column	Zone-1[1]
5 Basement 3 to...	900x900	28T40	UC3	T10-100	C	23-23	C100	Comp C column	Zone-1[1]
6 1st store y to 6...	900x900	24T32	UC3	T10-100	C	11-11	C80	Comp C column	Zone-1[1]
7 7th sto rey to 1...	900x900	24T40	UC4	T10-250	C	9-9	C60	RC Co lumn	Zone-1[1]
Operation Steps:									
1. Select the worksheet; 2. Select element group; 3. Select element type; 4. Select column title;									
5. Select the floor to which the element belongs (all information of the corresponding row will be saved to the selected floor);									
6. Click Identify button, and corresponding elements will be generated.									



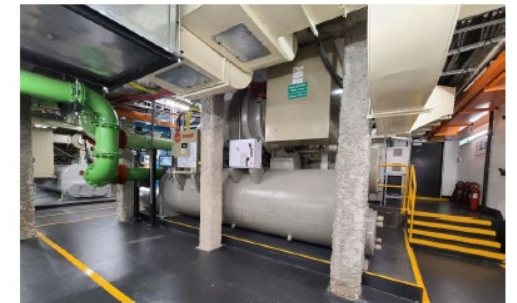
# BIM Case Study 3

Submission ID:	3154
Product:	PBS18-002 Architecture Engineering & Construction Collection IC Commercial New Single-user ELD 3-Year Subscription
Site:	Jardine House Chiller Replacement Project
User:	Sub-contractor (Non-SME)

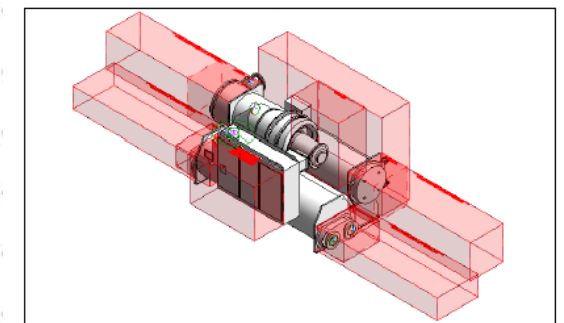
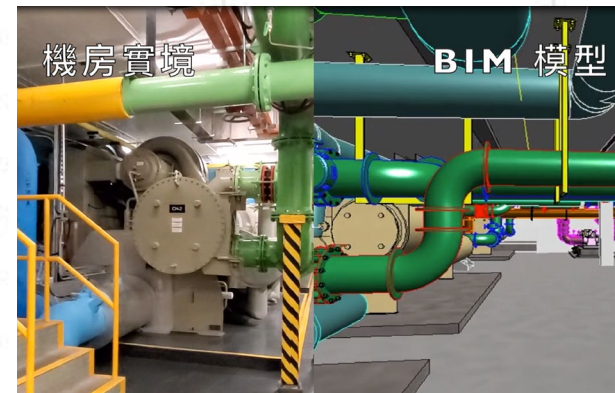
Use:	Chiller plant design and visualisation
Merits:	<ul style="list-style-type: none"> <li>Reduced misunderstanding and rework by clash analysis in BIM model</li> <li>Improved design efficiency and accuracy</li> </ul>



[Chiller and pipework setting out was reviewed by BIM]



[Clash analysis among chiller, structural support and other E&M service (e.g. air duct, cable tray, etc) was performed before chiller positioning]



[Visualization of the maintenance clearance by BIM]



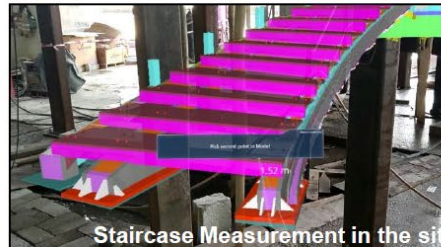
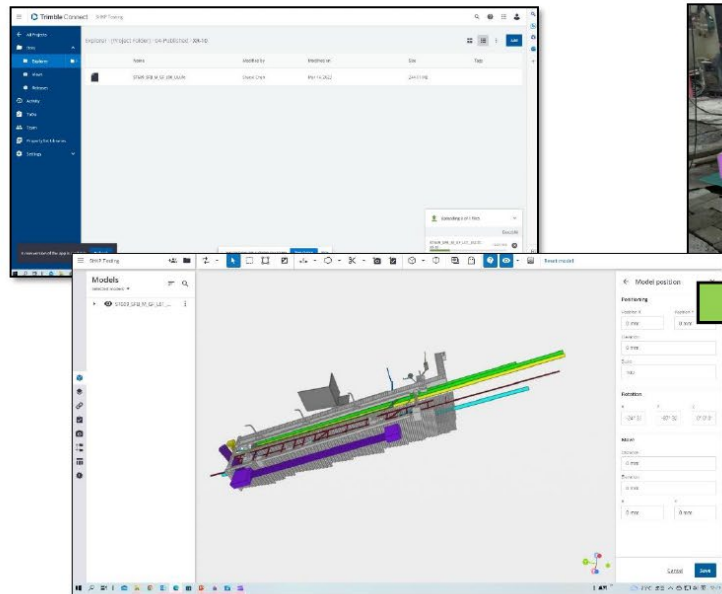
# Advanced Construction Technologies (ACT)



# ACT Case Study 1

Submission ID:	4694	Use:	Overlay BIM model in physical environment for site co-ordination and identifying issues
Product:	PA20-075 Trimble XR -10 with Hololens 2	Merits:	<ul style="list-style-type: none"> <li>MEP coordination time ↓ 30%</li> <li>Time for identifying potential problem ↓ 28%</li> <li>Overall project period ↓ 18%</li> </ul>
Site:	Residential Development at To Shel Street, Shatin		
User:	Contractor (SME)		

**Use/ Function in project:** Using the MEP BIM models data in a real-world environment, enabling collaboration between people working directly in the field



Trimble XR-10 download ifc Model Align in the Site



From authorized by Design Consultant of BIM Model export IFC file  
Upload to Trimble Connect and Position Setting

Visualisation of BIM model overlaid in real site environment for design review and collaboration



# ACT Case Study 2

Submission ID:	2130	Use:	Safety and quality management (e-PTW)
Product:	PA18-035 Digital Works Supervision System (DWSS)	Merits:	<ul style="list-style-type: none"> <li>↓ checking time by using mobile apps</li> <li>↓ permit application time</li> <li>↑ safety and productivity</li> <li>Paperless and quality record</li> </ul>
Site:	Residential Development at Kai Tak Area 1K Site, Kai Tak, Kowloon		
User:	Contractor (Non-SME)		



# ACT Case Study 3

Submission ID:	6749	Use:	Lifting operations
Product:	PA20-121 Advanced Truck-mounted Lifting Crane	Merits:	<ul style="list-style-type: none"> <li>Operator informed about the real-time safe working load in remote controller</li> <li>↓ judgement by operator (human error)</li> <li>Warning and alerts for unsafe conditions detected</li> <li>↑ safety and productivity</li> </ul>
Site:	Kai Tak Development -Stage 5B Infrastructure Works at the Former North Apron Area		
User:	Contractor (Non-SME)		



Warning given with crane locked whenever unsafe conditions detected (e.g. outriggers off the ground)



Safe lifting enabled in funded project

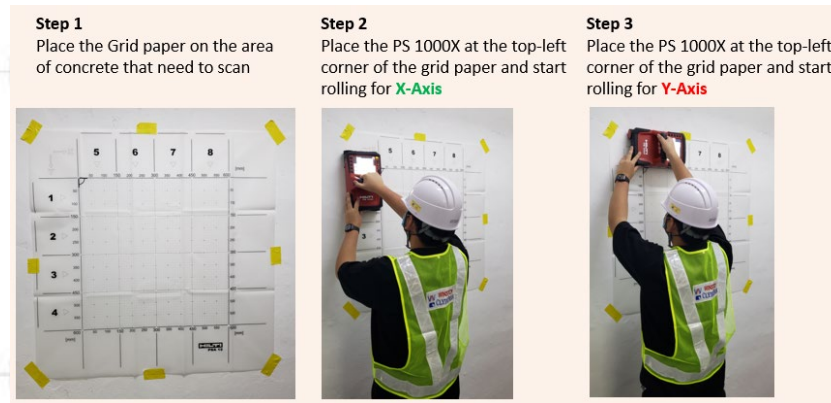


Dynamic real-time load chart and alerts displayed in remote controller

# ACT Case Study 4

Submission ID:	3085
Product:	PA19-017 Concrete Scanning Machine
Site:	Primary School at Tonkin Street, Cheung Sha Wan
User:	Sub-contractor (Non-SME)

Use:	Mechanical Ventilation and Air Condition (MVAC) Installation
Merits:	<ul style="list-style-type: none"> <li>Speedy and accurate identification of concealed services</li> <li>Accurate drilling plan based on 3D visualisation</li> <li>↓ risk of damage of concealed services</li> <li>↑ safety and productivity</li> </ul>



The scanning progress is indicated by a bar in display.  
The red bar showing scanning progress turns black when the length is reached.

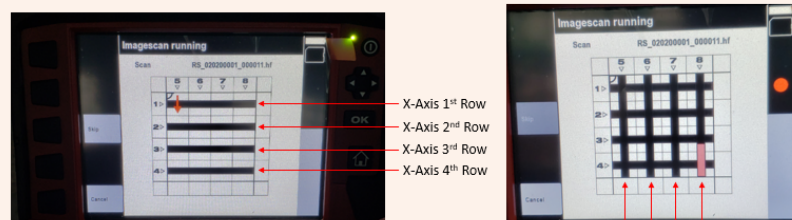
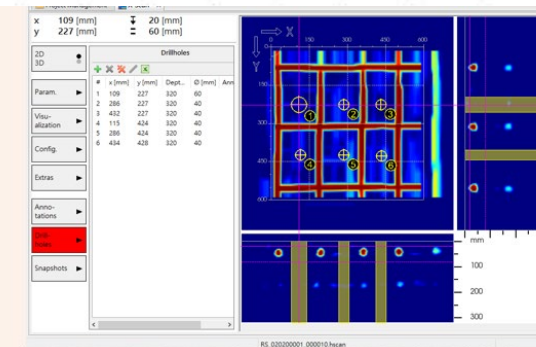
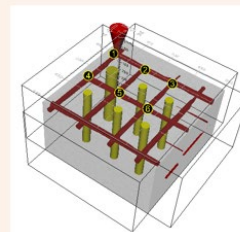


Photo Capture From PS 1000X Display

We can create a drilling plan  
optimizes the drilling location



Drilling plan developed based on the scanned results  
to ensure safe drilling without damage to any  
concealed services

裝修工鑽牆鑽到電線 觸電受傷送院

更新時間 @HKT: 2017.03.04 18:08



下午4時許，一名25歲工人在大埔太和邨福和樓進行裝修，其間使用電鑽鑽牆時，不慎鑽到電線意外觸電，並跌倒頭部受傷，工友見狀報警，救護員隨即到場將傷者送院，初步調查案件無可疑，案件列工業意外。

Injury due to accidental damage of  
concealed services can be avoided

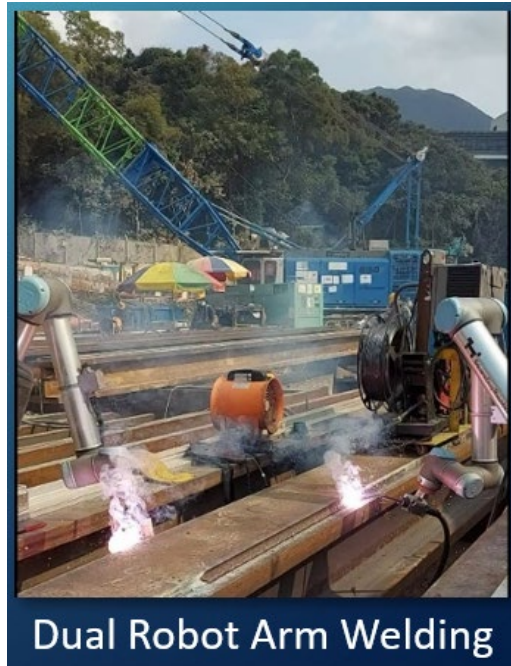


Speedy and accurate concealed rebar/  
services scanning before drilling

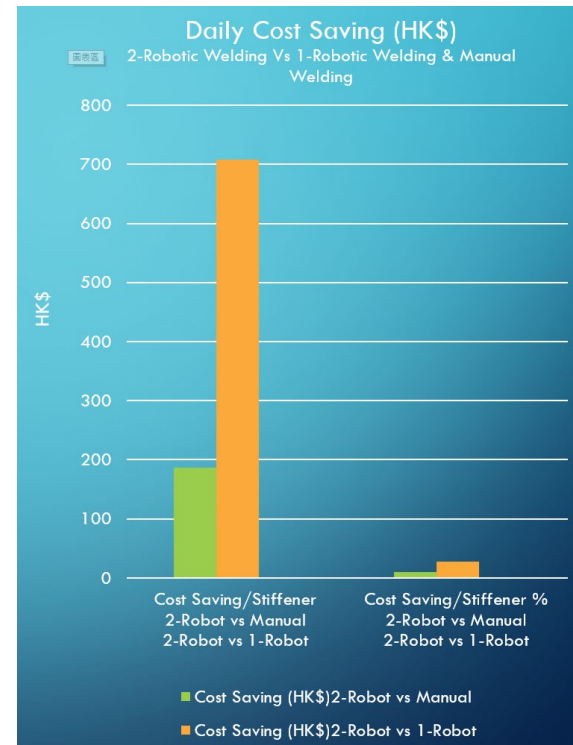
# ACT Case Study 5

Submission ID:	10563
Product:	PA19-001 Adaptive Welding Robot
Site:	Tung Chung New Town Extension (NL/2020/05)
User:	Contractor (Non-SME)

Use:	Installing reinforcement steel plate to H-piles
Merits:	<ul style="list-style-type: none"> <li>• Quality and accurate unmanned welding according to pre-determined paths</li> <li>• ↓ workers' exposure to safety risk (fumes/ heat/ light)</li> <li>• ↑ safety and productivity</li> </ul>



Dual Robot Arm Welding



Manuel Welding with welding hazards ( glare & toxic gas )



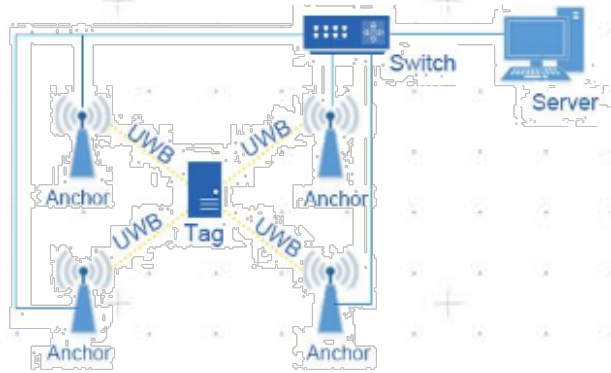
No site worker involved in robotic welding, there is no worker suffer from welding hazards



Dual robot arm welding to achieve cost saving and quality and safe welding operation

# ACT Case Study 6

Submission ID:	5368	Use:	Tunnel work
Product:	PA20-032 UWB定位系統	Merits:	<ul style="list-style-type: none"> <li>↓ response time to emergency situations</li> <li>↓ workers' exposure to safety risk (danger zone access control/ location tracking)</li> <li>↑ safety and productivity (monitoring)</li> </ul>
Site:	搬迁沙田污水处理厂往岩洞-工地開拓及連接隧道建造工程		
User:	Contractor (Non-SME)		



## (2) 工人定位功能

實時統計工友數量及位置

主動SOS求救功能

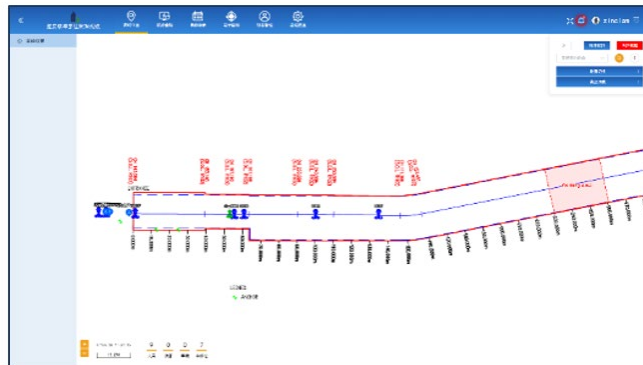


## (3) 危險區域提醒功能

利用網絡平台設置危險區、機械作業範圍、爆破施工範圍等；  
工人行入危險區，手錶發出振動提醒。



## (4) 健康監測、通知功能



Multiple workers safety monitoring functions in one system

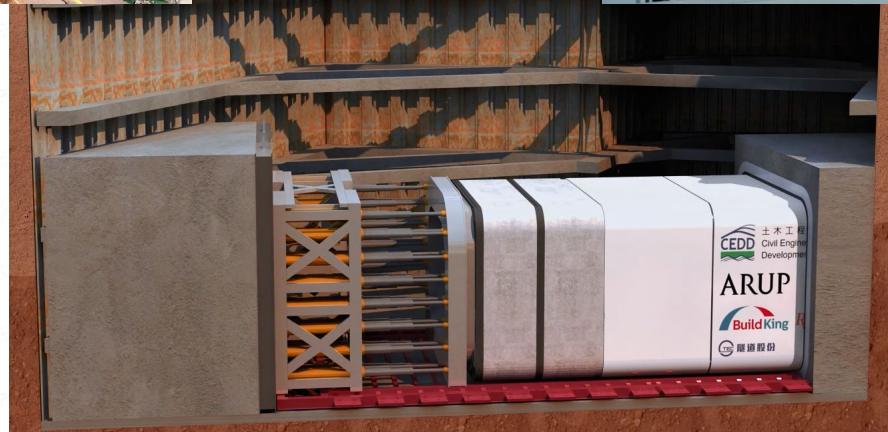
# ACT Case Study 7

Submission ID:	1062
Product:	Rectangular Tunnel Boring Machine (RTBM)
Site:	Kai Tak Development – Stage 3B Infrastructure at former North Apron Area
User:	Contractor (Non-SME)

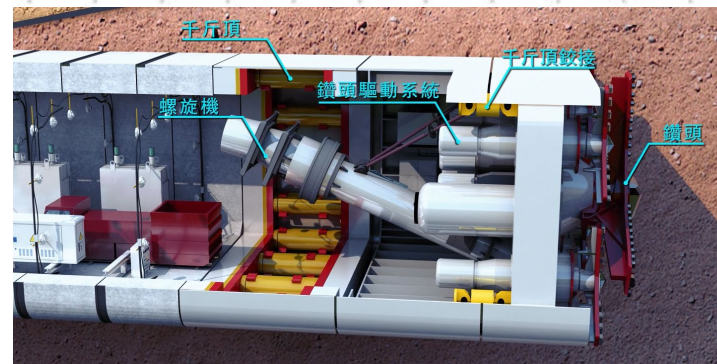
Use:	Trenchless Construction
Merits:	<ul style="list-style-type: none"> <li>• ↓8000 tons of solid waste to public fill</li> <li>• ↓1190 tons of steel temporary works</li> <li>• ↓90% workers' exposure in confined space</li> <li>• ↓40% rebar fixer and no temporary works</li> <li>• ↓17 months for forming permanent tunnel structure</li> </ul>



Traditional Method



First adoption of RTBM in Hong Kong



Unloading precast RC segments to shaft bottom for jacking



Innovation Method



# ACT Case Study 8

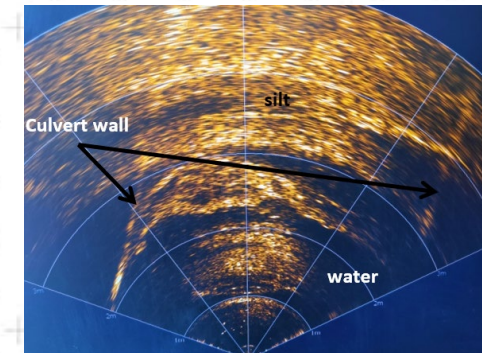
Submission ID:	3241	Use:	Underwater desilting works
Product:	Remote Operated Vehicle Pipe Dredger (ROVPD)	Merits:	<ul style="list-style-type: none"> <li>• ↑ 200% output (6 ton/ day vs 2 ton/ day)</li> <li>• ↓ 100 working days (for 300 ton desilting work)</li> <li>• No man-entry to confined space</li> <li>• Enabled work in wet season/ high water level</li> </ul>
Site:	Desilting of Box Culvert at Outfall near Lai Ying Street		
User:	Sub-contractor (SME)		



ROVPD with built-in CCTV HD camera and sonar loading down to water for desilting work



1 Operator operating in the control room



Clear sonar image



No man-entry is required



# ACT Case Study 9

Submission ID:	10655 (Pioneering Application)	Use:	Large-scale 3D Metal Printing
Technology:	3D Metal Printing	Merits:	<ul style="list-style-type: none"> <li>&gt;70% time reduction</li> <li>&gt;90% material saving</li> <li>&gt;50% weight reduction</li> <li>Unlocked design potential</li> </ul>
Site:	The Immigration Headquarters, Tseung Kwan O		
User:	Main contractor (Non-SME)		

## Post Design Processing      Printing processing data

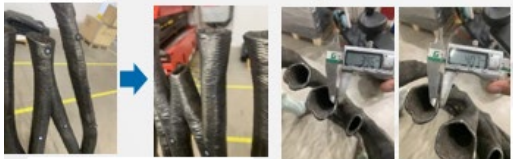
- Adjust parameters to acquire stable thin-wall deposition quality:
- Process parameters:
  - CMT+P, wire feeding speed = 2.0~2.2m/min, printing speed = 0.010~0.012m/s;
  - To maintain acceptable wall quality, slope angle should less than 45°.



45° slope angle printability



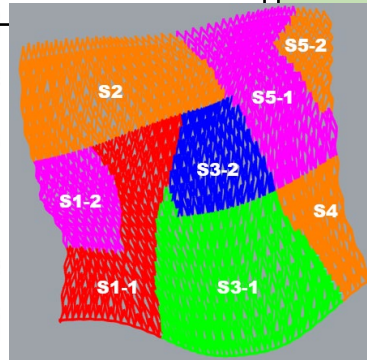
Weld Test



Wall quality optimizing

Wall thickness → 4mm

## Identify Printing Parameters



(a) Measurement of the z-axis displacement



(b) Measurement of the z-axis displacement



(c) Measurement of the z-axis displacement



(d) UNDT and the magnetic base



Prefabricated Segments Assembled on Site

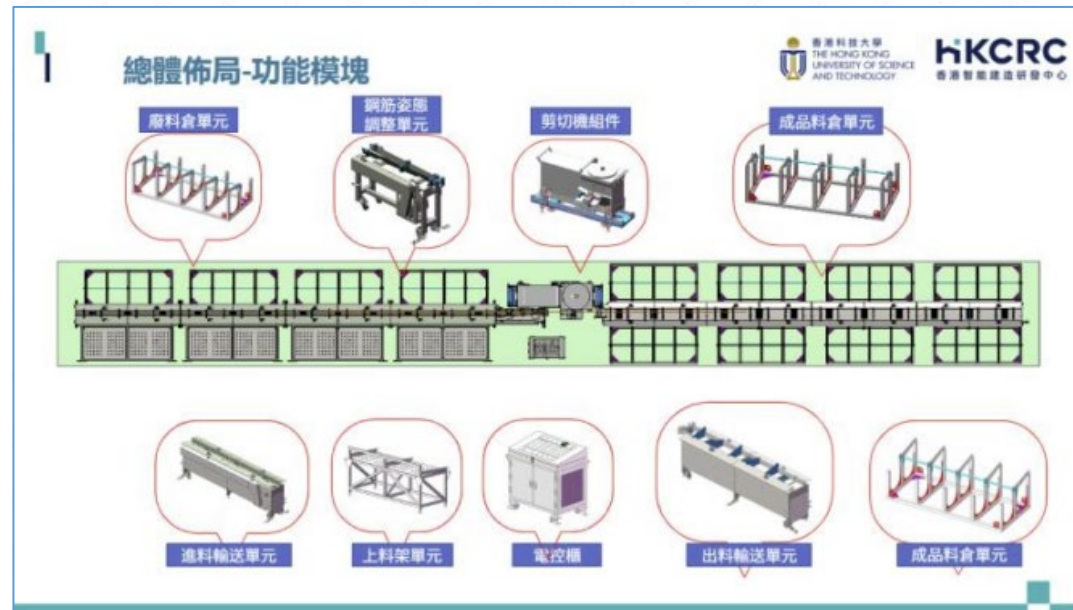
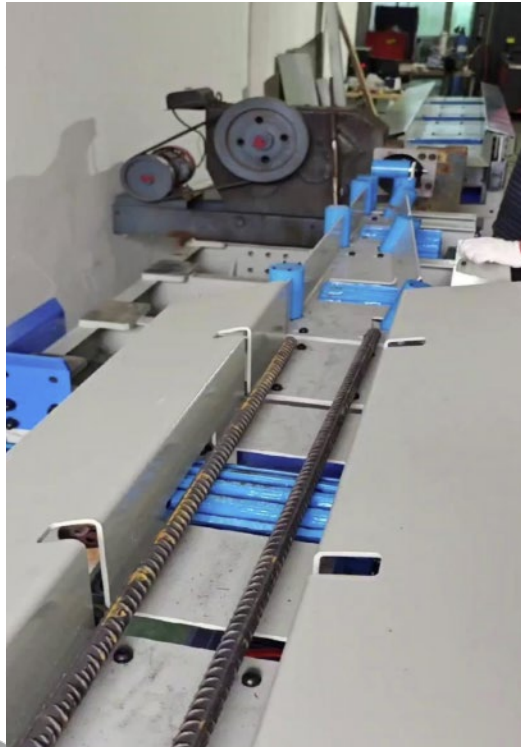
## Welding & Loading Test



# ACT Case Study 10

Submission ID:	23645 (Pioneering Application)
Technology:	Modification of Traditional Rebar Cutting Machine
Site:	Multiple sites for trial
User:	Sub-contractor (Non-SME)

Use:	Rebar cutting work
Merits:	<ul style="list-style-type: none"> <li>• Reduce injury</li> <li>• Reduce 50% labour and 29% cutting time</li> <li>• Increase productivity by 1.42 times</li> <li>• Reduce reliance on physically strong labour</li> <li>• Collaboration with rebar fixing and sub-contractor trade association in development process to ensure future applicability</li> </ul>



**Modularisation of Components for Easy Delivery and Site Deployment**

人工數量 (個)	3-4	1-2
配套人工成本 (HK\$/Day)	8800	4400
剪1條Y40鐵的時長 (s)	45	31.8
產能 (噸/天)	40	56.6

工友數量至少減少至1到2個，甚至可以變成女工在剪鉄  
剪Y40鉄，產能提高1.42倍

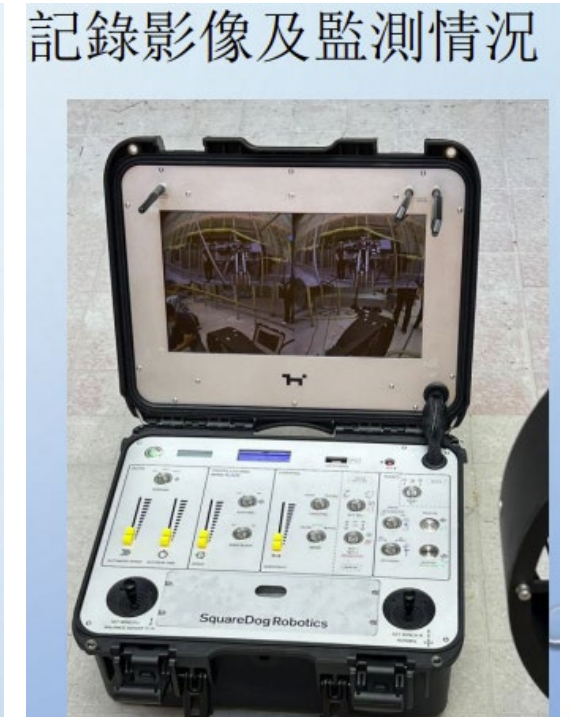


**Testing in Research Centre in  
consultation with Trade Associations**

# ACT Case Study 11

Submission ID:	14209
Technology:	Façade Cleaning Robot
Site:	城市大學賽馬會健康一體化大樓
User:	Sub-contractor (SME)

Use:	Curtain wall water test and cleaning before handover
Merits:	<ul style="list-style-type: none"> <li>• Eliminate manual work at high level and external wall</li> <li>• Reduce 27 man-hours for a small elevation at 2/F to 3/F</li> <li>• Objective assessment with full record</li> </ul>

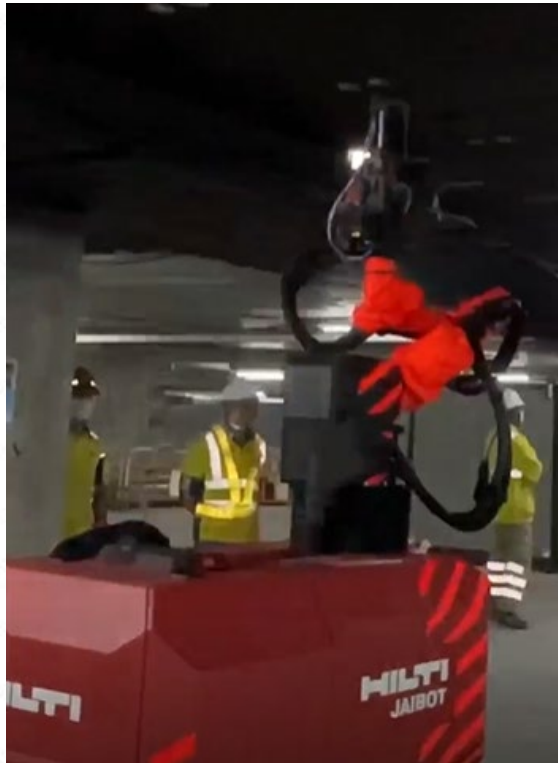


**Robot Eliminating Manual Work at High Level and the Need for Scaffold**

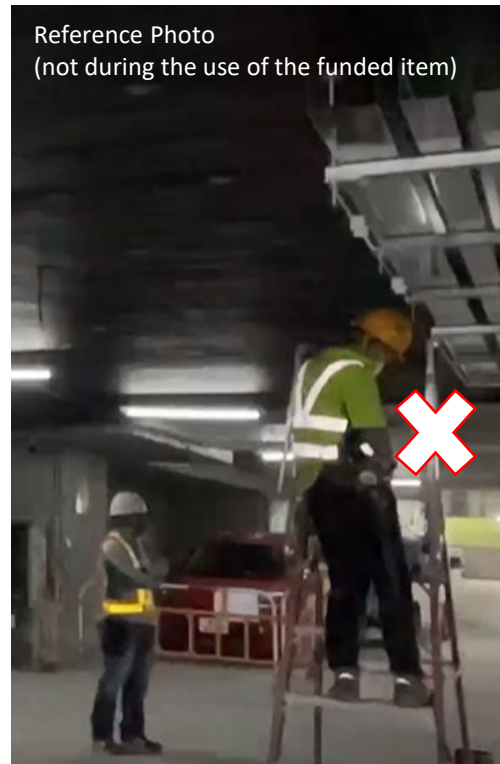
**Data Collection and Monitoring during the Water Test Progress**

# ACT Case Study 12

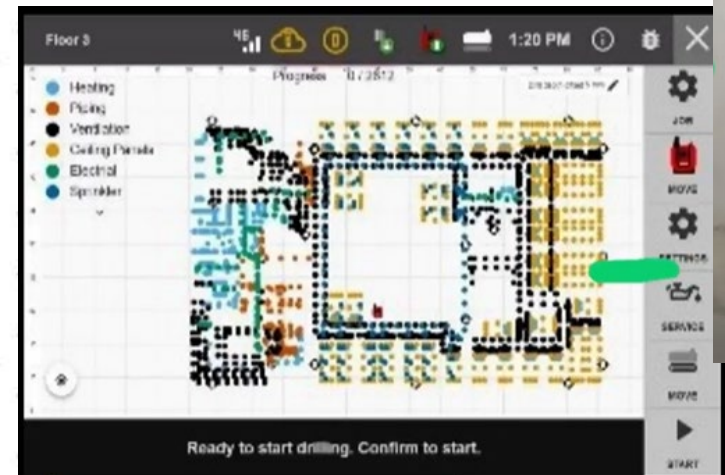
Submission ID:	13258	Use:	Ceiling bolt hole drilling works
Technology:	Drilling Robot	Merits:	<ul style="list-style-type: none"> <li>• Eliminate high level and scaffolding work</li> <li>• 30-40% productivity gain</li> <li>• 50% labour saving</li> </ul>
Site:	West Kowloon Express Rail Link Station		
User:	Main Contractor (Non-SME)		



**Remote-controlled and Semi-automated Drilling in Action**



**No Scaffold is Required for Typical Floor Height**

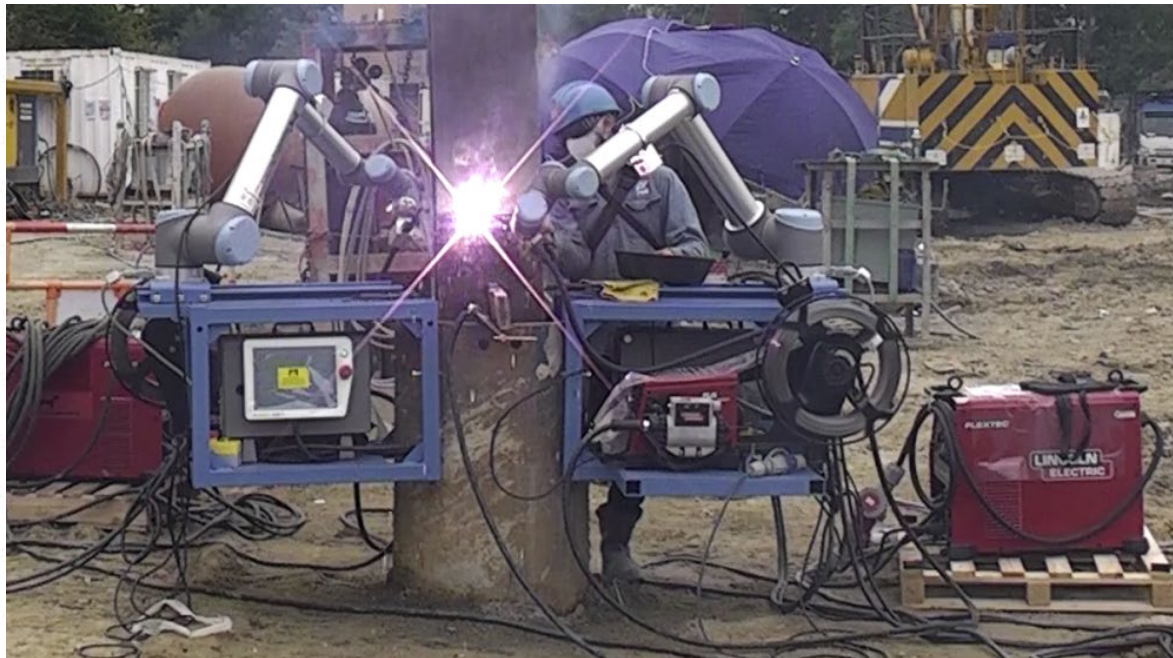


**Drilling Points input from BIM; Setting out by Total Station (not under this application)**



## ACT Case Study 13

Submission ID:	12317	Use:	Welding of steel sections (UC waling/ strut)
Technology:	Welding Robot	Merits:	<ul style="list-style-type: none"><li>• Eliminate manual close-distance hot work</li><li>• &gt;50% productivity gain</li><li>• &gt;50% labour saving (1 operator controlling 2 robots)</li><li>• Will use this technology in future even without contract requirement</li></ul>
Site:	Non-public Housing Facilities at Diamond Hill CDA – Transport Infrastructure Works (Subway ELS)		
User:	Sub-Contractor (SME)		



**Remote-controlled and Semi-automated Welding in Action**



# Modular Integrated Construction (MiC)



# MiC Case Study 1

Submission ID:	751, 2441, 2458
Site:	Innocell, Hong Kong Science and Technology Park
User:	Consultant (Non-SME), Contractor (Non-SME)

Funded Item:	Specialist MiC Consultant, Plant and Modules
Merits:	<ul style="list-style-type: none"> <li>Construction Period ↓ 12 months (30 -&gt; 18 months)</li> <li>Non-inert Waste ↓ 79.5%</li> </ul>



## Material Waste reduction

	Project in Similar Scale (~500 Flat Units)	InnoCell (~420 Flat Units)
Rebar	5%	2%
Sanitary Fitting	7%	3%
Ironmongery	7%	3%
Tile (Internal)	10%	5%

## Waste generation

	Project in Similar Scale (~500 Flat Units)	InnoCell (~420 Flat Units)
Non-inert waste	827.7 tonnes	169.53 tonnes
Compare to the waste generated in both projects for first 10 months, there is 79.5% reduction		

## Promote Productivity:

- Large lifting capacity, high effectiveness with adoption of larger modules
- Effective in construction, with max. 15 modules installed per day
- Overall construction work completed in 18 months (Jul 2019- Dec 2020); 12 months ahead schedule
- The overall productivity increases 40%  $[(1 - 18/(18+12))\%]$



## MiC Case Study 2

Submission ID:	13042	Funded Item:	Plant and Modules
Site:	Student Hostel, City University, Whitehead, Ma On Shan	Merits:	<ul style="list-style-type: none"> <li>9000 on-site man-days saved (&gt;30%)</li> <li>Overall project period reduced by 200 days (&gt;50%)</li> <li>Waste reduced (&gt;30%)</li> </ul>
User:	Contractor (Non-SME)		



Site progress photos



MiC module installation in progress

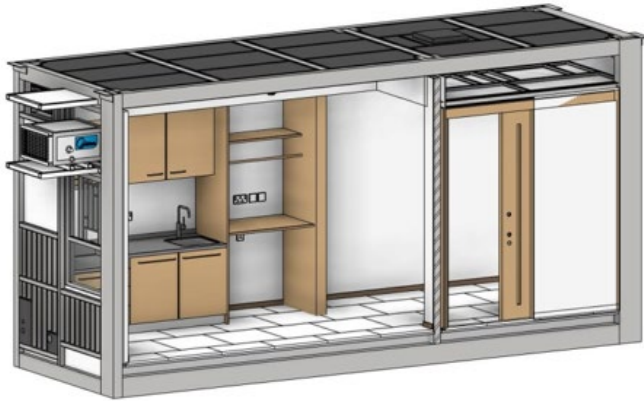


Completed Works



## MiC Case Study 3

Submission ID:	7371	Funded Item:	Plant and Modules
Site:	Re-development of Purpose-built Elderly Home at Jat Min Chuen, Sha Tin	Merits:	<ul style="list-style-type: none"> <li>On-site skilled workers saved (&gt;30%)</li> <li>Reduced project period (&gt;20%)</li> <li>Waste reduced (&gt;20%)</li> </ul>
User:	Contractor (Non-SME)		



BIM Design to Off-site Production



MiC module installation in progress



Completed Works



# Prefabricated Steel Rebar (STB)

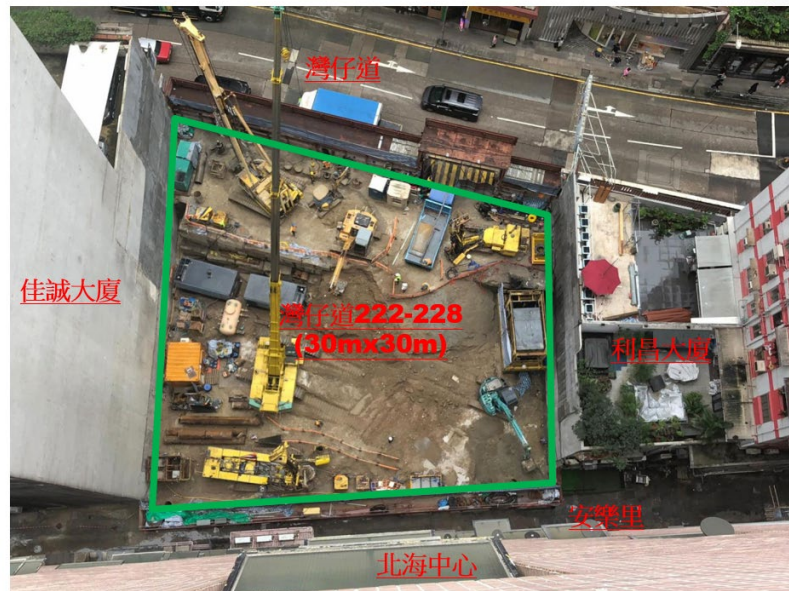


# STB Case Study 1

Submission ID:	4220
Product:	Pre-fabricated Steel Rebar (STB)
Site:	Commercial Development at 222-228 Wan Chai Road
User:	Contractor (Non-SME)

Use:	Reinforcement bars for building construction
Merits:	<ul style="list-style-type: none"> <li>• ↓ 20% wastage</li> <li>• ↓ 20% construction waste on site</li> <li>• ↓ 20% workers required</li> <li>• ↑ 10% productivity</li> <li>• ↑ Quality ↓ 10% re-work</li> </ul>

地盤狹小問題：擠迫，缺乏開料場空間



Narrow and crowded site



Prefabrication in factory



On-site installation



## STB Case Study 2

Submission ID:	5360	Use:	Reinforcement bars for building construction
Product:	Pre-fabricated Steel Rebar (STB)	Merits:	<ul style="list-style-type: none"> <li>• ↓ 50% workers required</li> <li>• ↑ 50% productivity</li> <li>• ↑ Quality and safety</li> <li>• ↓ 30% construction waste on site</li> </ul>
Site:	Construction of Subsidized Flats Development at Diamond Hill Comprehensive Development Area		
User:	Contractor (Non-SME)		



描述：牆身鐵中使用的屈鐵 (預製鋼筋)

On-site installation



描述：Beam Stirrup (預製鋼筋)

On-site installation



# Manpower Development (MPD)



# MPD Case Study 1

Submission ID:	3024
Programme Type and Name:	Non-local training/ visits for Practitioners - HKCA YMS Professionals Connection New York & Boston Delegation Trip
Location:	Boston and New York
Applicant:	Hong Kong Construction Association (HKCA)

Beneficiaries:	Young practitioners (32 nos.)
Programme Highlights and Experience Gained:	<ul style="list-style-type: none"> <li>• Exchange with American Society of Civil Engineers (ASCE) on BIM and MiC adoption in New York</li> <li>• Design workshop with prototypes built by delegates in a week, followed by presentation to local professors and architects</li> <li>• Exchange session with MBA students from MIT on AI at MIT Senseable Lab</li> </ul>



## Visit to Autodesk Technology Centre

Innovative 3D printing technology was demonstrated by the printing of formwork which dismantling of formwork is not required and defects can be avoided on the concrete surface



## Participants' Feedback

100% strongly agreed/ agreed:

- expected learning outcomes achieved;
- Knowledge in relevant areas deepened



## Tappan Zee Bridge Project

Using steel as an alternative to the ordinary reinforced concrete design and adopting a life cycle approach which took the maintenance of the structure into account



## MPD Case Study 2

Submission ID:	1199
Programme Type and Name:	Non-local training/ visits for Students - 2019 Computing in Construction Summer School (CCSS)
Location:	Italy
Applicant:	Hong Kong Polytechnic University (PolyU)

Beneficiaries:	Tertiary students of construction-related programmes (18 nos.)
Programme Highlights and Experience Gained:	5-day course organized by the European Council on Computing in Construction: <ul style="list-style-type: none"><li>• Robotic systems for inspection</li><li>• Mixed Reality</li><li>• Real-time safety management</li><li>• Block-chain technology</li><li>• Behavioural design and modelling, etc.</li></ul>



### Participants' Feedback

100% strongly agreed/ agreed:

- Inspired to pursue further learning in related technologies;
- Knowledge in relevant areas deepened

*"The lectures given by renowned professors on how the integration of construction and technologies like A.I. and blockchain uplifted productivity and enhanced site safety were to be honest beyond my wonders"*



# MPD Case Study 3

Submission ID:	2093
Programme Type and Name:	International Conference in Hong Kong – International Conference on Modular Integrated Construction: Innovating Higher
Applicant:	The University of Hong Kong (HKU)

Beneficiaries:	Professionals, Technicians, Tertiary Students, Academic Staff, Registered Skill Workers (400 nos.)
Programme Highlights and Experience Gained:	More than 17 renowned speakers, including academics and experts from UK, Singapore, Canada, Australia, Ireland and Hong Kong shared their experience in modular construction and construction innovative technologies



## Applicant's Feedback

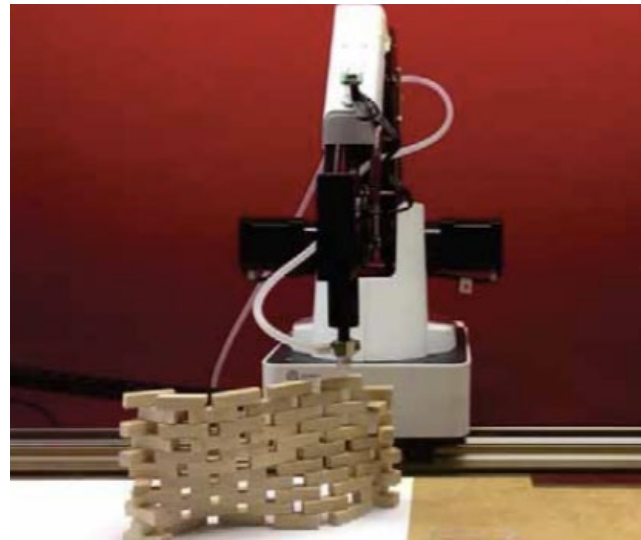
- Programme objectives and learning outcome were achieved;
- Programme could deepened participants' understanding on MiC adoption



## MPD Case Study 4

Submission ID:	3731
Programme Type and Name:	Local Collaborative Course - Multi-Axis Robotics Workshop for Architecture
Applicant:	The Chinese University Of Hong Kong School of Architecture (CUHK)

Beneficiaries:	Tertiary Students, Academic Staff (19 nos.)
Programme Highlights and Experience Gained:	Hands-on experience in coding and execution of drawings, laser cutting and 3D printing using robotic arms, sensors, computer vision, AI and integrated computational design tools to achieve pick-and-place



### Applicant's Feedback

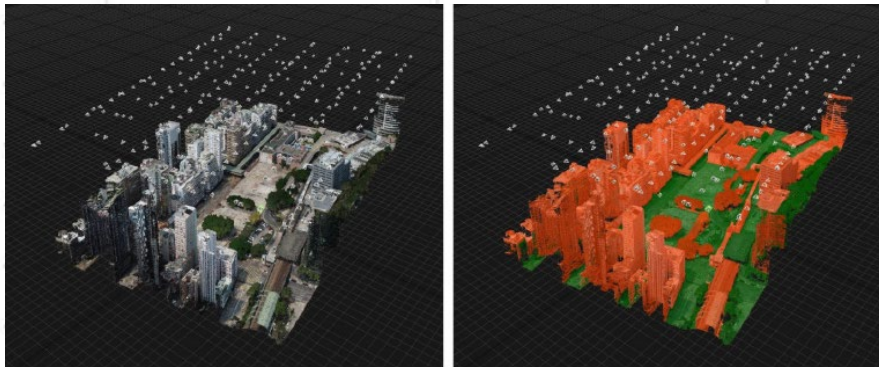
- Participants can link design tools with robotics, and scale up toward construction activities.
- Participants gained familiarity with robotics protocols to leverage sensor-driven data to refine and evaluate their designs.
- GPT-based AI tools and more complex pick-and-place action with more robotic system can be further explored
- 94% participants agreed they had acquired a deeper understanding on how to adopt the technology



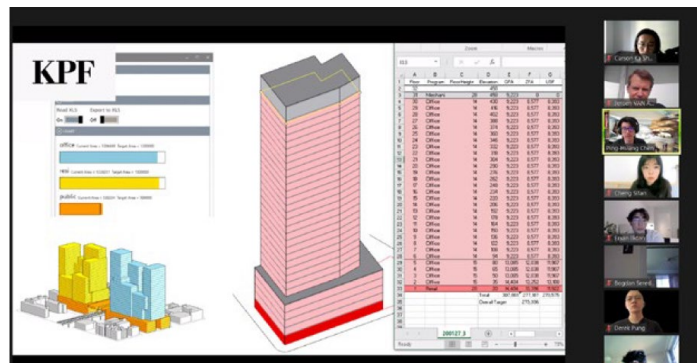
# MPD Case Study 5

Submission ID:	4640
Programme Type and Name:	Local Collaborative Course – Data-driven Design: UAV Photogrammetry Based Generative Architectural Design Methodologies
Applicant:	School of Architecture, The Chinese University Of Hong Kong (CUHK)

Beneficiaries:	Professionals, Technicians and Tertiary Students (23 nos.)
Programme Highlights and Experience Gained:	<ul style="list-style-type: none"> <li>Hands-on experience of photogrammetry and other design software for generative design</li> <li>Use of UAV aerial scanning, post-processing of images using photogrammetry, and constructing data-driven generative design</li> <li>Automatic generation of building geometries following a set of procedural rules upon determined inputs in the model</li> </ul>



Automated urban classification model



Market density and popularity mapping

## Applicant's Feedback

- Although the learning curve was very steep and course was quite difficult, several students mentioned that they will continue to practice and develop their digital skills in their future coursework.
- A presentation on the workshop was given as part of the CAADRIA conference to international audience.



## MPD Case Study 6

Submission ID:	9241
Programme Type and Name:	Non-local Visit cum Training for Students – Unlocking the full potential of Building Information Modelling with OpenBIM
Applicant:	City University of Hong Kong

Beneficiaries:	Tertiary Students, Academic Staff (33 nos.)
Programme Highlights and Experience Gained:	<ul style="list-style-type: none"> <li>Visit to buildingSMART Korea to learn open standard and workflow, interoperable data exchange and integration</li> <li>Visit to local AEC firms and BIM projects and universities (e.g. Incheon National University) to learn AI based design automation</li> </ul>



### Participants' Feedback

- 100% participants agreed that the learning outcomes were achieved and they were inspired to pursue further learning in construction technology.



Thank you

