



發展局
Development Bureau



CONSTRUCTION INDUSTRY COUNCIL
建造業議會

工地齊FUN享

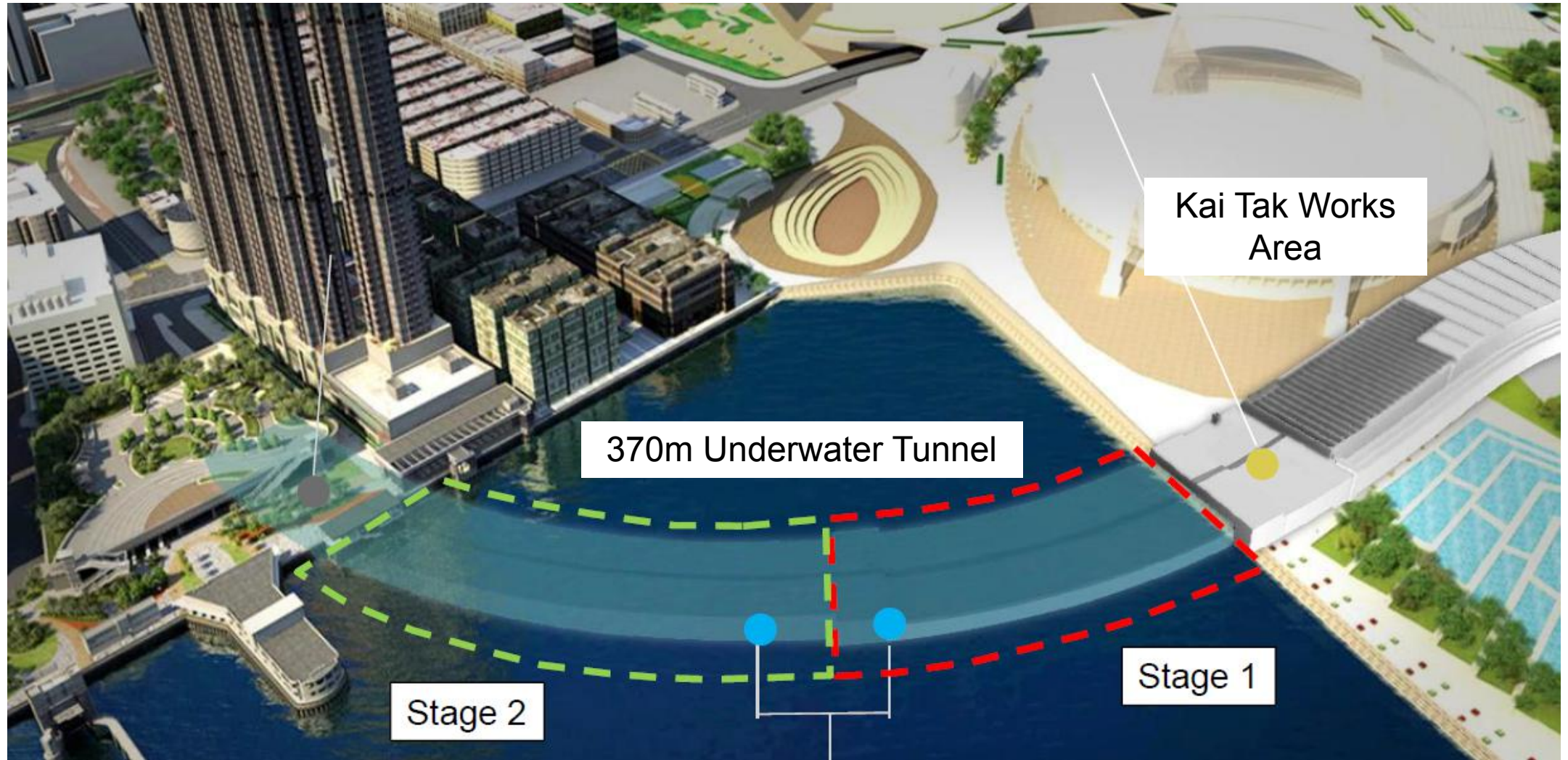
Site Safety Gathering
Sharing Session 2 for Working at height

- Introduction
- Underwater Tunnel Skidding System
- Modular ELS System
- VR Training Kit

Central Kowloon Route



Kowloon Bay Marine Works Area



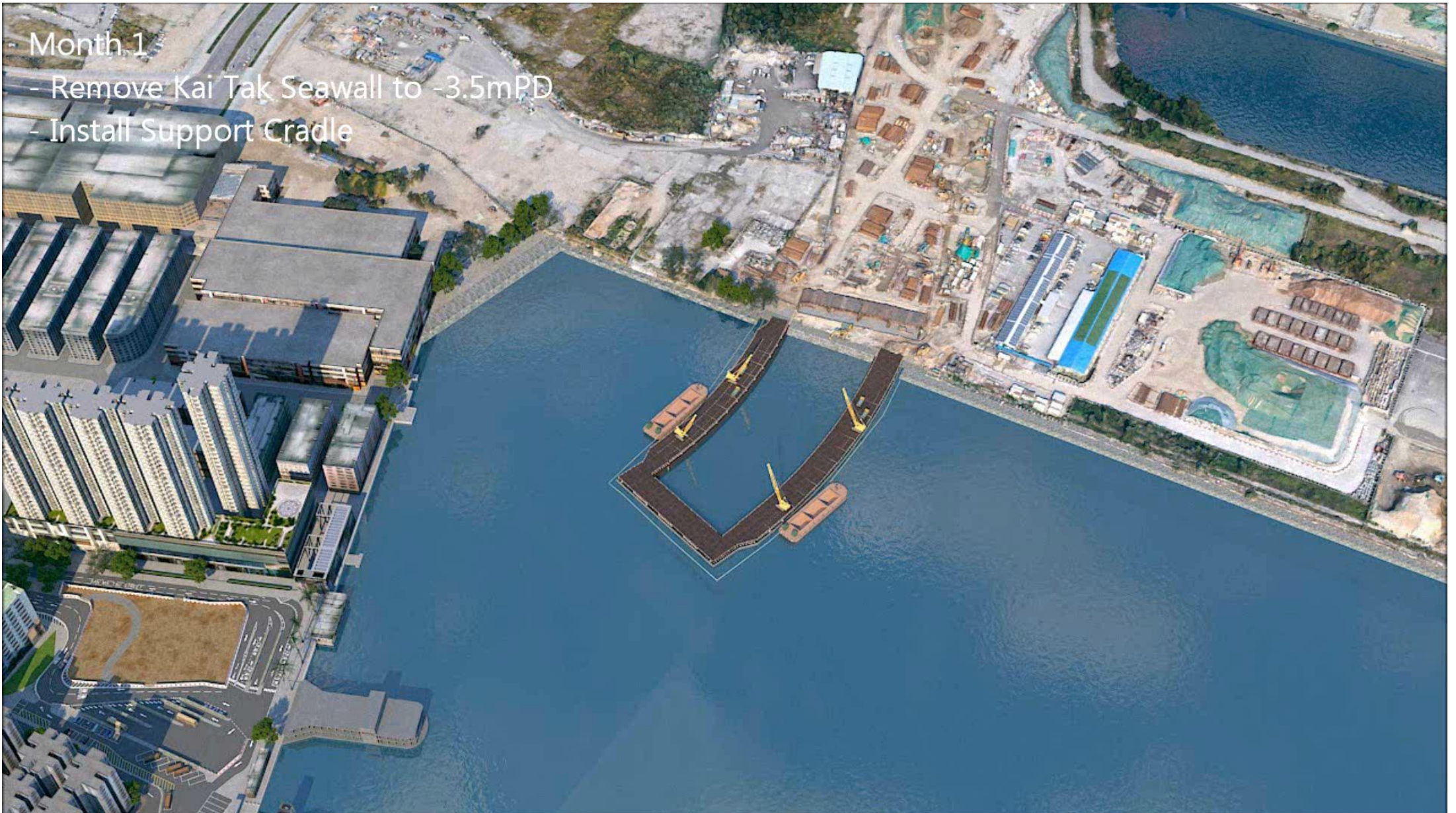
ELS System for Underwater Tunnel



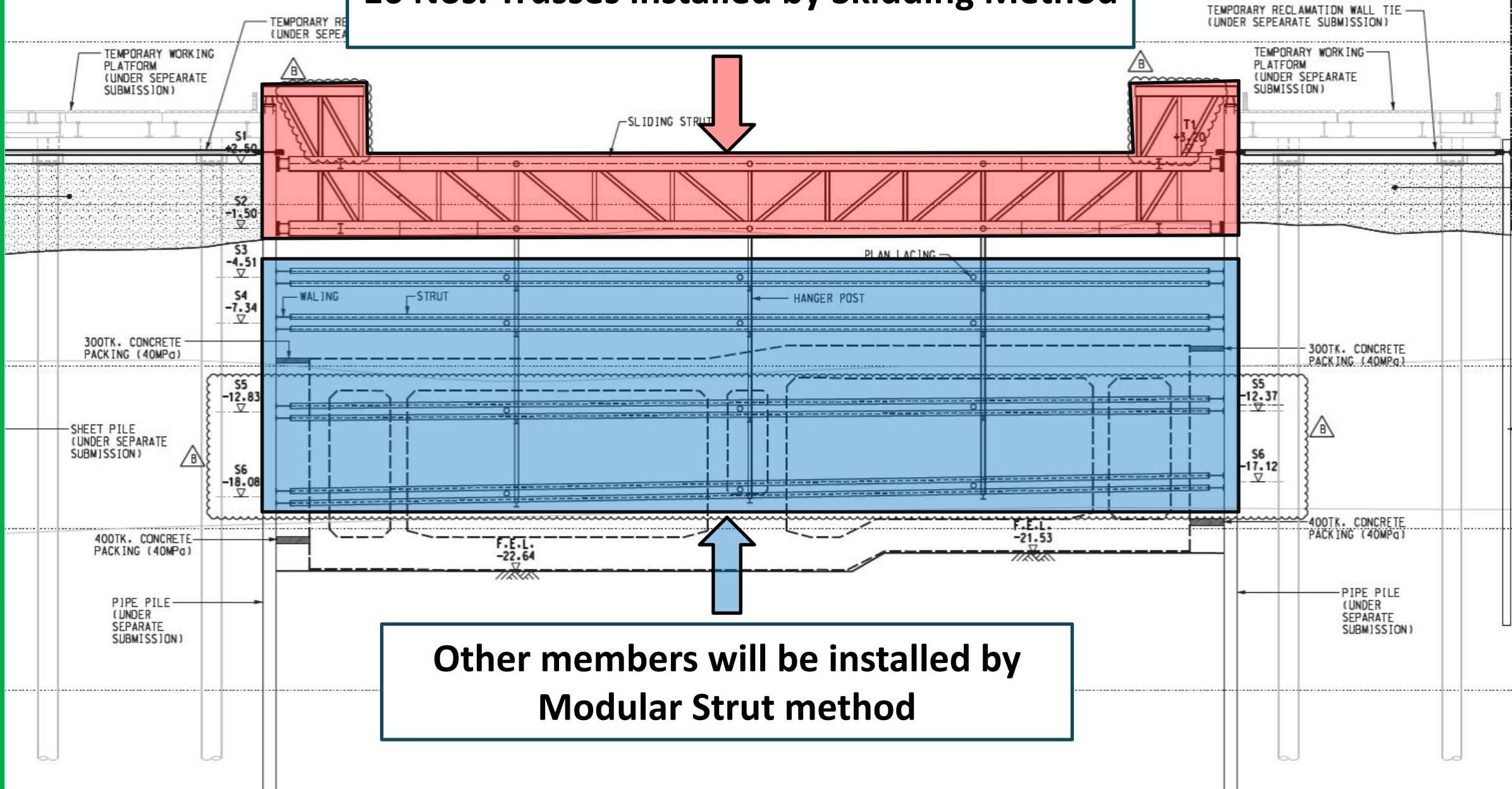
A solid green vertical bar is located on the far left side of the image, extending from the top to the bottom.

UNDER WATER TUNNEL SKIDDING SYSTEM

Construction Method Simulation



16 Nos. Trusses installed by Skidding Method



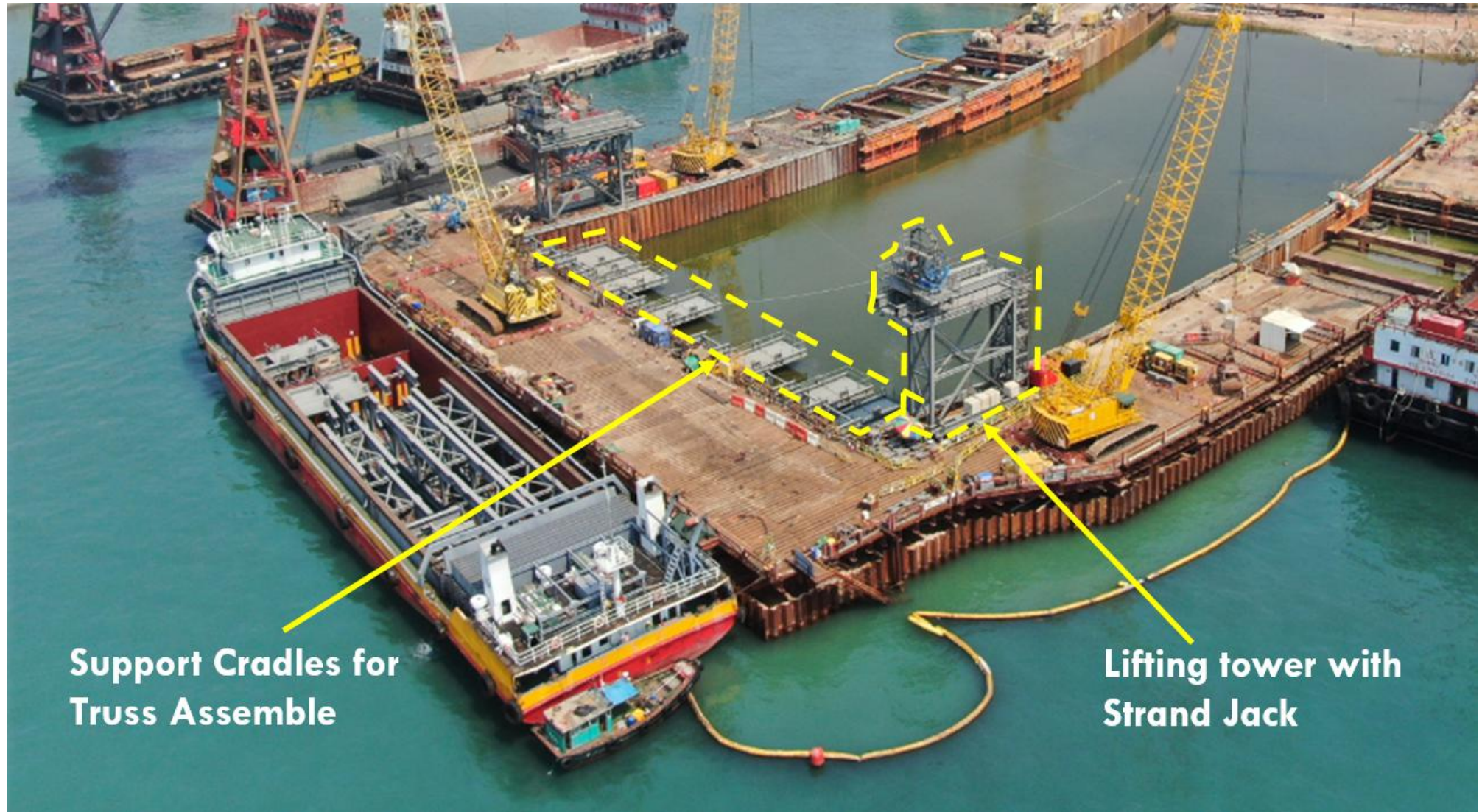
Other members will be installed by Modular Strut method

Off-Site Truss Fabrication

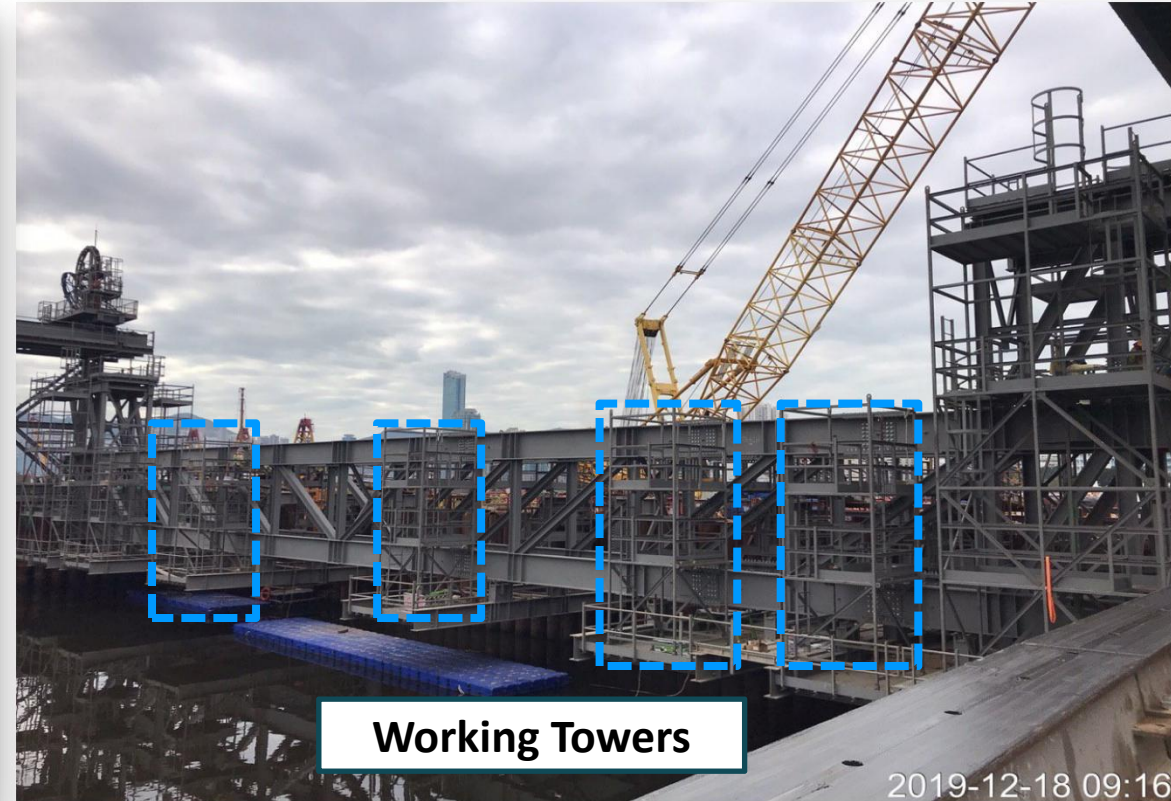
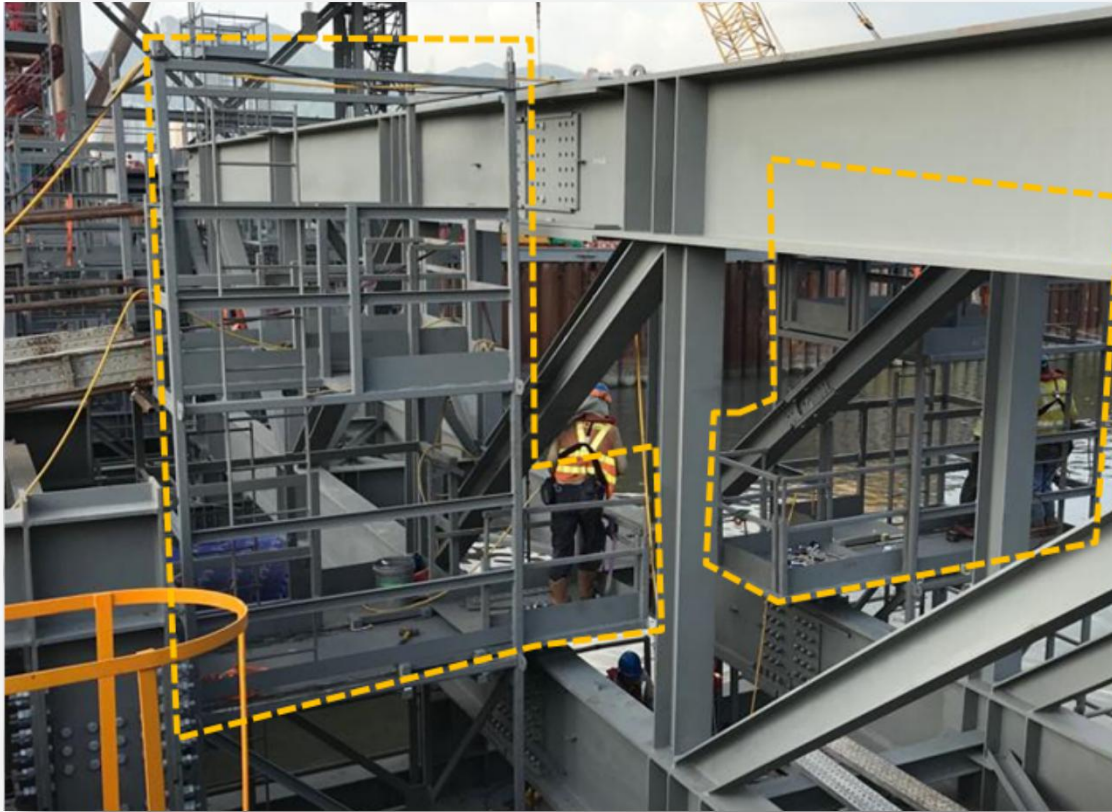
- Members were assembled in factory-controlled environment
- Fewer risks comparing to on site fabrication



On-Site Installation



On-Site Installation



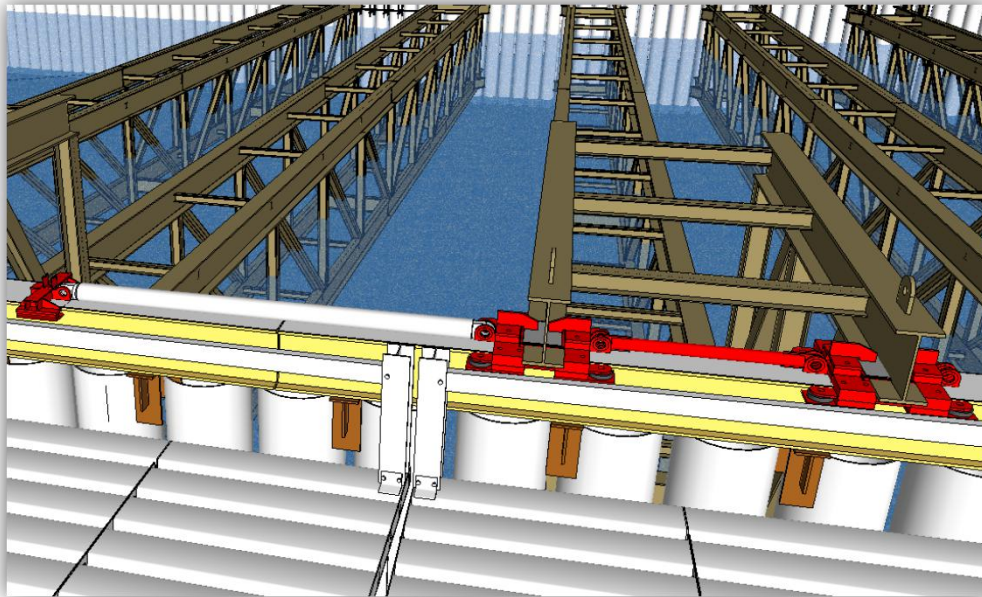
- Designated working towers for bolt fixing works at height
- Guardrails system was prefabricated on the towers
- Fall protection was ready once the towers had been lifted into position

On-Site Installation



- Lifting the whole assembled truss by lifting towers into the rails for further skidding process
- Eliminate the risk of working at height for connecting the strutting members

On-Site Installation



- Skidding of truss on rail by hydraulic rams
- Operatives stayed on the marine working platform with robust guardrails throughout the skidding process

Benefits on Working at Height



- Greatly reduce working-at-height processes of the ELS installation
- Designated working towers with prefabricated guardrail system to provide instant fall protection
- Operatives can stay inside the marine platform throughout the skidding process

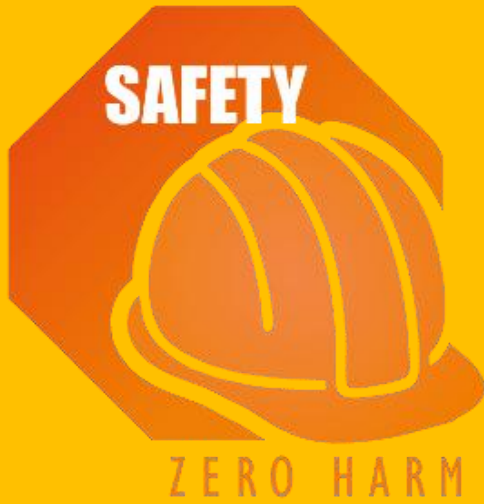
VR Kits by CIC

VR Kits by CIC



- Integrated VR Training Kit into regular site safety induction training
- Using VR Training Kit for conducting Tool Box Talk of related topics such as working at height, safe use of MEWP & scaffold etc.





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