

Industry Practitioners Category

Construction Manager

Outstanding Award

Sherman YIP Shing-lam

 **香港房屋委員會**
Hong Kong Housing Authority

Construction of Public Housing Development at Tung Chung Area 99

As one of the pioneering projects in Hong Kong using concrete Modular Integrated Construction (MiC), the Public Housing Development in Tung Chung Area 99 (TC99) serves as the corner stone of Housing Authority's research and implementation of the technology. With a dual role as the contract manager for TC99 and head architect of R&D for the division, Sherman developed a standard MiC design based on insights gained from its refinement process, which benefits future projects and promotes the sustainable construction practice across the industry.

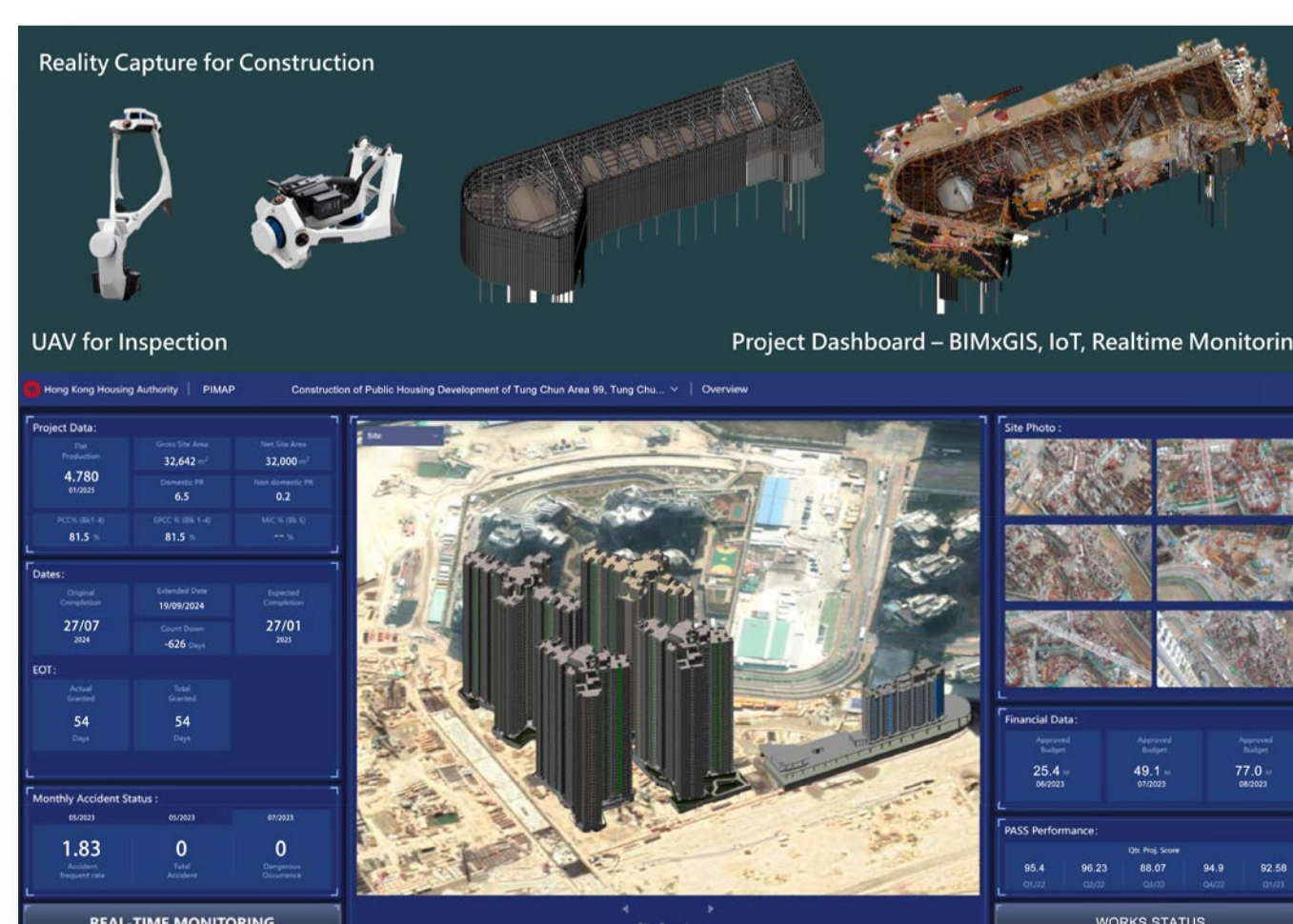


Sustainable Best Practice 1

As Contract Manager, Sherman leads the project pioneering use of MiC at TC99, a resource-efficient method that notably reduces pollution. He ensures the project embodies comprehensive carbon reduction strategies, including carbon emission estimates and the use of green materials. Under Sherman's management, TC99 leverages various innovations to support low-carbon initiatives, demonstrating the project's commitment to environmental-friendly practices and reinforcing its status as a beacon of sustainable development.

Sustainable Best Practice 2

Emphasizing public engagement, Sherman facilitates stakeholder involvement in discussions on HKHA's adoption of MiC at TC99. He ensures TC99 serves as an effective research base for MiC 1.0, MiC 2.0, MiMEP, and High Productivity Construction (HPC), fostering advancements in construction technology. Under Sherman's leadership, TC99 plays a pivotal role in potentially mainstreaming these innovative techniques, contributing significantly to the evolution of sustainable construction practices.



Sustainable Best Practice 3

Under Sherman's management, the project dashboard at Tung Chung Area 99 (TC99) effectively utilises Digital Twins, integrating Building Information Modelling (BIM), Geographic Information Systems (GIS), and Internet of Things (IoT) to enhance site safety and its continuous evolution. Sherman also oversees the use of 5D BIM for detailed planning. He champions the use of reality capture technologies, like 3D laser scanning, for automated BIM modelling, improving work planning. Moreover, under his direction, construction robotics are implemented to minimise exposure to risky trades, thereby enhancing worksite safety.