



Greener BIM, 80% Faster: How MTECH Transformed Quantity Surveying for ESG

Specialists in BIM and digital twins - transforming infrastructure delivery through smart, structured data.

plannerly

CASE
STUDY



THE CLIENT

A Hong Kong-based leader in digital construction and asset lifecycle management, MTECH has been innovating in the field since 1995. From early BIM work on the 2008 Beijing Olympics to their current focus on digital twins, AI, and infrastructure megaprojects, MTECH continues to push the boundaries of what's possible with BIM.

“ We joined the Plannerly journey in 2019 and have used it on over 16 projects at Hong Kong International Airport alone. It gives us a smart structure to manage scope, responsibilities, and changes all in one place. ”

THE RESULTS

80% time saving
100% ESG Requirements, Day 1

THE CHALLENGE

As MTECH's projects expanded in scope and complexity, they faced growing challenges with disconnected workflows. Design updates, contractual requirements, and **model data were often misaligned** - managed through **fragmented tools** and endless spreadsheets. Verifying whether models met project specifications became a slow, manual process across teams.

Adding to the complexity, **green procurement and sustainability goals were often introduced too late**. ESG thinking needed to be embedded from day one - not retrofitted. Quantity Surveyors, in particular, were brought in after major design decisions were already made, limiting their ability to influence material choices that impact emissions, waste, and long-term costs.

“ With Plannerly, we don't just create a plan - we live it. It's how we put the BIM Execution Plan into daily practice. ”

THE ACTIONS

Since 2019, MTECH has delivered over 16 major projects at Hong Kong International Airport - **the world's busiest cargo hub** - using Plannerly as the foundation for smarter BIM and information management.

They redefined delivery with:

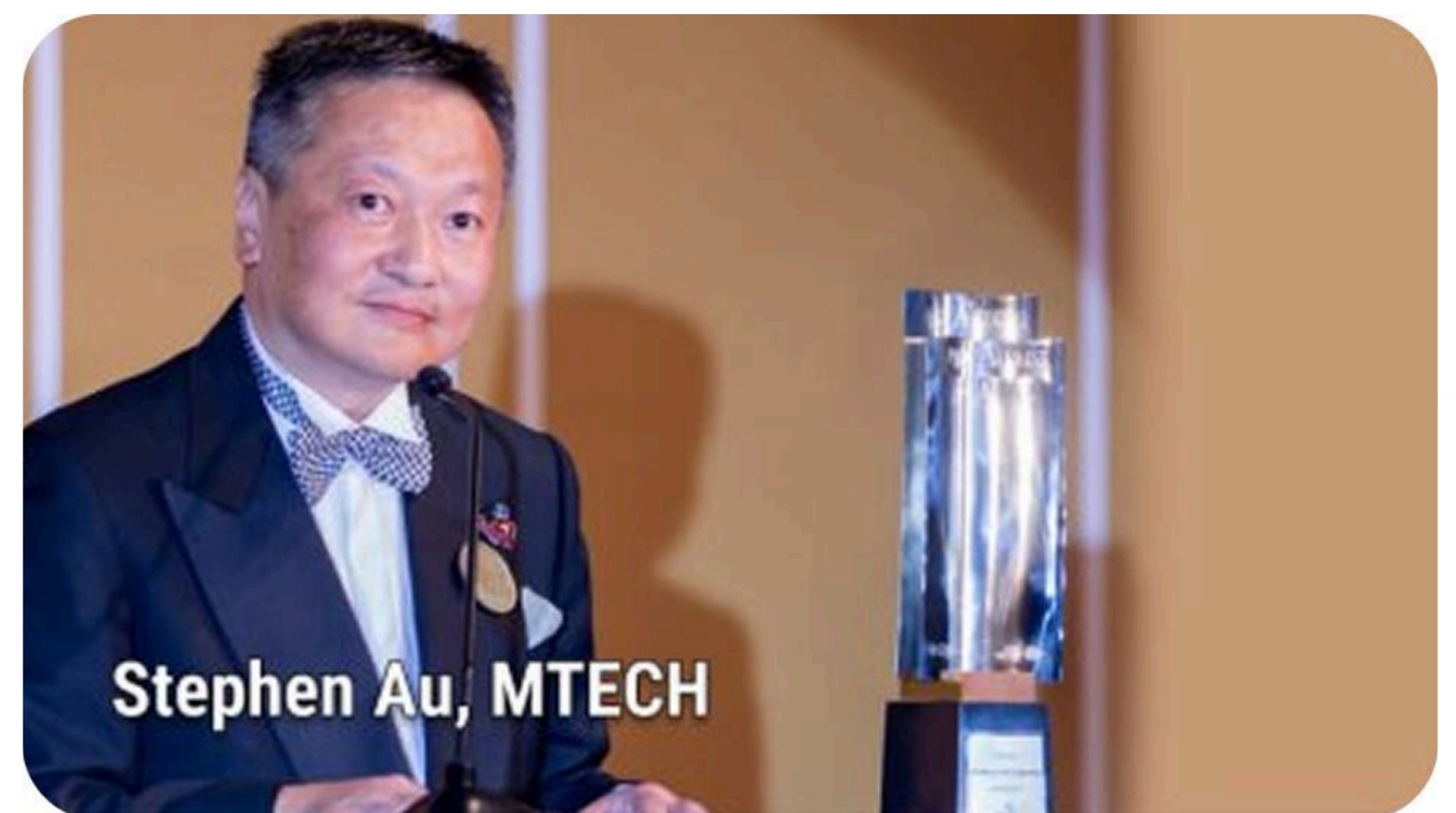
- Digitally structured requirements from day one
- **Clear task ownership** linked to scopes of work
- Automatic model checks at every milestone
- One platform for updates, approvals, and **accountability**

Plannerly also became the backbone of their ESG strategy:

- **Carbon-aware specs** defined upfront
- **Live verification** against evolving green targets
- Centralized data from concept to handover
- Real-time metrics - **no spreadsheets needed**

THE IMPACT

- **80% reduction in time spent verifying BIM and ESG requirements** across 16+ large-scale projects
- **One structured workflow** aligned all teams with contract-linked expectations—reducing errors and rework
- **Earlier involvement of Quantity Surveyors** enabled better cost planning and material selection
- **ESG goals embedded and tracked in real-time**, giving managers visibility and control from start to finish



Stephen Au, MTECH

“ Plannerly lets us align quality, cost, and carbon goals - without adding more admin. We now open the door for Quantity Surveyors to participate in the project for Green Procurement across the full project life cycle. ”

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MORE THAN
100,000 TEAMS
IN OVER 100
COUNTRIES



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