

Sourcing Guide #3: What Construction Technology is Everyone Adopting?  
採購指南 #3：熱門建築科技透視

With growing labour costs, safety concerns and stricter compliance demands, contractors, civil engineers and project leaders must embrace technology to remain competitive in the construction industry. Read our latest Guide to discover what technologies your peers are turning to, and how Build4Asia helps you access the right solutions to meet today's challenges head-on.

面對勞動成本上升、安全風險與更嚴格的建築規範，承建商、工程師和項目負責人急需引用科技來保持競爭優勢。最新採購指南將揭曉業界熱門技術，以及Build4Asia 如何助您選擇合適的解決方案，輕鬆應對行業挑戰。

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01 | MUST-KNOW MARKET TRENDS 必知市場趨勢

3 Technologies trending on site 三大建築科技風向

1. Modular Integrated Construction (MiC) 「組裝合成」建築法



With the government targeting 189,000+ public housing units over the next 5 years, alongside major urban renewal developments, MiC is rapidly evolving from a niche approach into a mainstream solution across both public and private sectors.

政府在未來五年計劃建造超過 189,000 套公共房屋並推動多個市區重建項目，「組裝合成」建築法有望成為主流，廣泛應用於公共及私人項目。

Why it Matters 機遇解析

By shifting 60-70% of the construction works off-site, MiC reduces reliance on limited on-site labour while improving project delivery. In Hong Kong's dense urban environment, MiC adoption also means less disruption, faster project delivery and more predictable costs. 此技術將高達 60-70% 的施工轉移到場外，減少對現場勞動力的依賴，同時提升項目質素。香港人口密集，採用MiC也意味著更少干擾、加快完工和更容易控制成本。

2. Building Information Modelling (BIM) 建築信息模擬



From April 2025, BIM models are mandatory for all public works tenders. EMSD also proposed using AI with BIM and asset management to build digital twins, enhancing chiller plant efficiency in commercial buildings and further expanding BIM adoption.

自 2025 年 4 月起，所有公共工程招標均須採用 BIM 模型。機電工程署亦建議將人工智能與 BIM 及資產管理系統結合，建構數位孿生平台，以提升商業建築冷水機組的效率，進一步擴大 BIM 的應用範圍。

Why it Matters 機遇解析

BIM helps visualise projects before construction begins, significantly reducing rework and material waste. BIM-enabled digital twins also support predictive maintenance and accurate asset management, lowering lifecycle costs and improving long-term facility performance. BIM 可在施工前可視化建築項目，有助於減少重工和材料浪費。透過 BIM 技術建立的數位孿生平台，更可實現預測性維護與精準資產管理，降低生命週期成本並提升設施效能。

3. Robotics 機器人技術



The Development Bureau is actively promoting the use of construction robotics in public projects. Applications now cover facade works, interior renovation, foundation works, prefabricated component installation and more.

香港發展局積極推廣在公共工程中使用建築機器人，目前應用範圍涵蓋外觀工程、室內翻新、地基工程、預製構件安裝等。

Why it Matters 機遇解析

Robotics take on hazardous and hard-to-reach tasks, reducing safety risks while easing labour shortages. They also capture real-time inspection data and integrate directly with BIM models, enabling better analysis, smarter maintenance planning and improved productivity. 機器人能承擔高危及人力難及的工作，降低施工安全風險並緩解人手不足，更可結合 BIM 平台，實時採集數據，實現更精準的分析及維護，提升生產效率。

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02 | WHY BUILD4ASIA 為何參觀

Whatever the challenge, Build4Asia has it covered 專業支援，拆解各路挑戰

At Build4Asia 2026, our Asian Buildtexas sector connects you with cutting-edge construction technologies, from BIM and digital twins to IoT, robotics and smart building materials, all designed to solve today's site challenges.

The Build4Asia Conference completes the show experience, featuring experts like

- Mr Kelvin Lee, General Manager (Central Technical Team) of Hong Kong Housing Society,
- Mr Steven So, Chief Technology Officer of NTT Com Asia,
- Ir Billy Cheung, Company Director of ATAL Building Services Engineering Ltd, etc.

who will share success stories and proven approaches on smart building management.

Build4Asia 2026 的 Buildtexas 亞洲國際樓宇科技、材料及裝飾展覽會將展示最尖端的建築技術，包括 BIM、數字孿生、物聯網、機器人及智慧建築材料等，旨在解決現代建築業面臨的各種挑戰。展會同時舉辦 Build4Asia 會議，邀請了一眾業界領袖如：

- 香港房屋協會總經理（技術統籌及支援）李嘉俊先生、
- NTT 通信亞洲首席科技總監蘇耀宗先生、
- 安樂機電工程有限公司 Ir Billy Cheung





分享智能樓宇管理的成功案例，提供交流與學習平台。

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03 | ON THE SHOW FLOOR 焦點展商

Strong line-up of exhibitors offering comprehensive solutions  
強大參展商陣容，展示全方位解決方案

 <p><b>Century Harvest Technologies Limited</b></p> <p>Century Harvest specializes in smart fire engineering. By leveraging AI, IoT, and automated robotics, they offer comprehensive solutions for site safety, emergency response, and energy management. They transform traditional engineering into tech-driven safety for the future of smart cities.</p> <p>倚凱科技深耕消防工程多年，轉型為集AI、IoT與機器人技術於一體的工程科技專家。提供智慧工地安全(4S)、消防應急機器人、物聯網監測及ESG能源管理方案，致力以科技守護智慧城市的安全與永續發展。</p>	 <p><b>Matterport Pte Ltd</b></p> <p>Matterport, a CoStar Group company, is transforming the built world with over 50 billion square feet of digitized space. Its Property Intelligence-powered spatial data platform turns buildings into actionable digital twins used across collaborative planning, construction, operations, documentation, appraisal, and marketing. Millions of spaces in 177+ countries rely on Matterport to make every building more valuable and accessible.</p> <p>matterport 透過數碼化超500億平方呎空間，其由物業智能驅動空間數據平台將建築物轉化為應用於規劃、建設、運營、記錄，提升建築價值與可及性，覆蓋177國以上。</p>
 <p><b>Sonic Guard Technology Company Limited</b></p> <p>Specializes in extra-low voltage and information technology including cloud-based video door phones, IP intercoms, access control systems, and smart IoT solutions (including fire prevention and HVAC solutions). They have grown with the aim of providing integrated solutions for intelligent building, home automation, security, and building communication.</p> <p>專精於超低壓及資訊技術領域，產品涵蓋雲端視訊對講機、IP對講系統、門禁控制系統，以及智慧物聯網解決方案。致力於為智慧建築、居家自動化、安全防護及建築通訊領域提供整合式解決方案。</p>	 <p><b>Tech Data Distribution (Hong Kong) Limited</b></p> <p>A value-added distributor of Autodesk, providing software and related services to customers across architecture, engineering, construction, manufacturing, and media sectors. Leveraging strong Autodesk expertise and local market experience, Tech Data supports customers in adopting and maximizing Autodesk technologies to enhance productivity and operational efficiency.</p> <p>Autodesk 的增值經銷商，為建築、工程、製造及媒體產業的客戶提供軟體及相關服務。憑藉對 Autodesk 解決方案的深厚專業知識及豐富的在地市場經驗，Tech Data 協助客戶採用並充分運用 Autodesk 技術，以提升生產力與營運效率。</p>

[Check out our exhibitor list](#)  
[瀏覽參展商目錄](#)

04 | INDUSTRY NEWS 行業快訊

Keep up to date with market dynamics 掌握市場動態

SLocated in a high-traffic urban area, China State Construction Engineering (Hong Kong) Limited's Temple Street Project overcame site constraints through fully Modular Integrated Construction. Over 95% of the structure, interiors and installations were prefabricated in Taiwan, earning praise from the Construction Industry Council as a benchmark for private developments.

中國建築工程（香港）有限公司的廟街重建項目位於交通繁忙的鬧市，因此採用「全組裝合成」技術來克服施工環境的限制。超過 95% 的結構、裝修及家電均在台灣預製，被香港建設業議會譽為私人建築項目的標準。



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