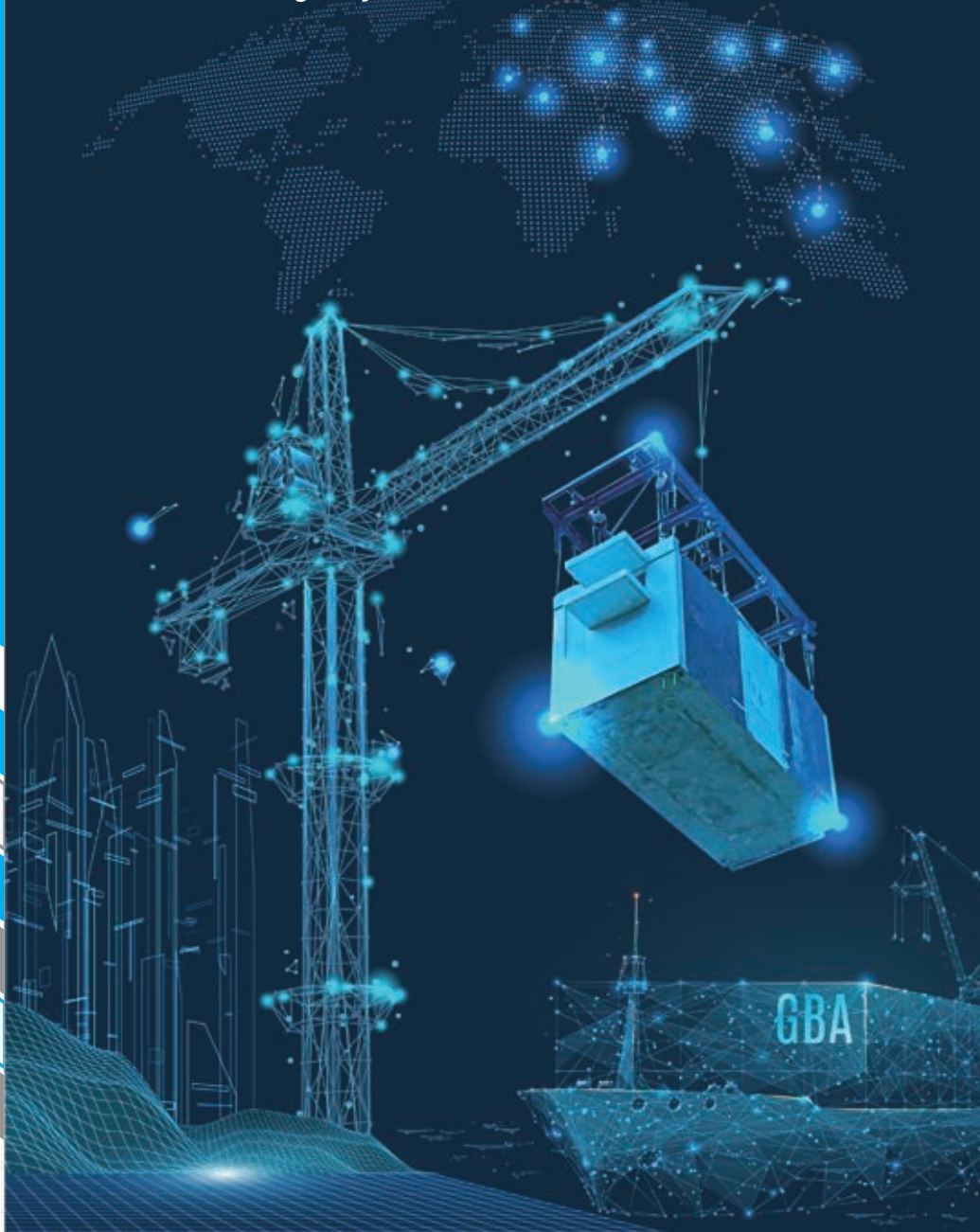
MiC 組裝合成

Modular Integrated Construction

Building Beyond Borders · 建造無界



What is MiC?

Modular Integrated Construction (MiC) is a construction method where freestanding volumetric modules, completed with finishes, fixtures, fittings and most building services installations, are manufactured off-site and then transported to site for assembly.

MiC modules

Factory fabrication

On-site assembly

Proven Performance of MiC

Based on performance data from projects:

Productivity and Cost Efficiency

- **40%** reduction in superstructure construction period
- **65%** reduction in on-site labour requirements
- **10%** reduction in overall building costs

Environmental Sustainability

- **65%** reduction in on-site construction waste
- **70%** reduction in on-site water usage
- **65%** reduction in on-site electricity consumption

Community Impact

- **40%** fewer construction vehicle trips

Four Pillars of MiC Advancement

The Greater Bay Area (GBA) serves as the main manufacturing base for MiC modules, while Hong Kong plays a pivotal role in research and development, quality accreditation, and international marketing for MiC. By leveraging the complementary strengths across the GBA, MiC is being developed as a new productive force to contribute to the high-quality national development. Offering a proven and scalable solution adaptable to a wide range of building applications, MiC's success is underpinned by four strategic pillars: **Design Excellence**, **Advanced Manufacturing**, **Technology & Innovation** and **Super-Connector**.

Four Pillars of MiC Advancement

Design Excellence

Setting new benchmark in modular construction

- Versatile building typologies tailored to diverse applications
- Proven steel and concrete MiC systems
- Skilled talent pool driving design quality and performance
- Over 150 projects delivered or underway

Advanced Manufacturing

Boosting productivity through industrialized precision and scalable capacity

- Accredited MiC manufacturers across Greater Bay Area (GBA)
- Semi-automated prefabrication blends with skilled craftsmanship
- Resilient supply chain ensures timely delivery

Technology & Innovation

Accelerating innovation in MiC solutions

- Building Technology Research Institute (BTRi) drives R&D in advanced building technologies, materials, standard, testing and accreditation
- Government-led applied R&D projects and strategic studies with industry and academia strengthen R&D

Super-Connector

Bridging MiC expertise across regions to fast-track MiC development

- Strong local collaboration among Government, industry, academia and research institutions
- Close tie with Mainland authorities and regional stakeholders
- Global events fostering international exchange

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