

**從願景到實踐：
凝聚創新 構建未來**
**From Vision to Impact:
Connecting Ideas, Building Solutions**



策略報告
Strategic Report
2025



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摘要 EXECUTIVE SUMMARY




關於香港建科院

香港建築科技研究院（香港建科院）成立於2024年8月，是一間香港特別行政區政府財政司司長法團全資擁有的有限公司，致力推動建造業創新發展。

About BTRi

Building Technology Research Institute (BTRi) was established in August 2024 as a limited company wholly owned by the Financial Secretary Incorporated, the Government of the Hong Kong Special Administrative Region, and dedicated to promoting construction innovation.

我們以三大專業範疇構建建造業未來:

-  推動創新建築材料、建造方法及技術的應用研發工作
-  優化本地標準，並為新材料及技術制定本地及大灣區標準
-  為創新方案進行測試，並提供認可與認證服務

我們憑藉香港的獨特優勢，致力將大灣區打造成建造技術最先進的地區之一，並引領建造業邁向優質創新的產業生態。

We are shaping the future of construction by:

- Applying research and development in innovative construction materials, construction methods and technologies
- Advancing local standards and formulating local and Greater Bay Area (GBA) standards for new materials and technologies
- Conducting testing and providing accreditation and certification for new solutions

We leverage Hong Kong's unique advantages and aim to establish the GBA as one of the leading regions with the most advanced construction technologies, and transform the construction industry into a high-quality, innovative force.

年度摘要 - 以創新引領未來 ANNUAL SUMMARY - SHAPING THE FUTURE BY INNOVATION

香港建科院致力推動香港建造業轉型。透過促進創新應用研發、制定新標準，以及提供認可、認證與測試服務，我們正邁向更安全、高效和可持續的建築環境。

自2024年8月成立至2025年12月31日的首個財政年度，香港建科院在推動建造業創新發展方面取得豐碩成果。At BTRi, we are committed to transforming Hong Kong's construction industry. By promoting R&D, devising new standards, and providing accreditation, certification and testing services, we are enabling a shift towards a safer, more efficient, and sustainable built environment.

Since our establishment in August 2024 until the end of our first financial year of 31 December 2025, BTRi has made significant progress in advancing the construction innovation ecosystem.

創新成果 惠及建造業界 Realise the Impact of Innovation to the Industry

30+ 創新項目 提升成本效益、安全及可持續發展
Innovation Projects to Achieve Cost-Effectiveness, Safety and Sustainability



大學、政府及業界的協作平台 University-Government-Industry Community

30+ 協作夥伴
Collaboration Members
10+ 交流研討活動
Knowledge Sharing Events



標準制定 引領創新 Lead the Way in Standards Development

5 項新技術及新材料標準的制定
New Standards Commenced for Advanced Technologies and Materials
10+ 本地標準檢討 提升成本效益
Local Standards Reviews Commenced to Achieve Cost-effectiveness



提升品質保證 Enhance Quality Assurance

8 間認可「組裝合成」製造商
Accredited Modular Integrated Construction (MiC) Manufacturers



2 香港建科院的歷程

THE BTRi JOURNEY

2.1 願景及使命

VISION AND MISSION

願景

香港建科院致力推動建造業創新發展，通過在本地引領建築創新、實現高性能產業及可持續的建築環境，鞏固香港在基礎設施和城市發展方面的全球和地區性領先地位。

Vision

BTRi is a dedicated hub for promoting construction innovation, with a vision to underpin the global and regional leading position of Hong Kong in infrastructure and urban development, through spearheading construction innovation and enabling a high-performing industry and sustainable built environment in Hong Kong.

使命

- ▶ 通過建築行業的應用研發，促進採用創新的建築材料、方法、設備和技術
- ▶ 推進香港建築業標準，打造「灣區標準」品牌，支持大灣區成為先進建築技術的領先地區
- ▶ 引領本地建築行業建立認可、認證和測試能力
- ▶ 促進學術機構、研究機構、政府部門和私人機構在引領建築創新方面的更緊密合作
- ▶ 吸引和培育人才，為行業發展打造可持續的人才庫

Mission

- ▶ To promote adoption of innovative construction materials, methods, equipment and technologies through applied R&D in the construction industry
- ▶ To advance standards for the construction industry in Hong Kong and build the brand of "GBA Standards", supporting the GBA to be the leading region in advanced construction technologies
- ▶ To lead in building up the accreditation, certification and testing capabilities of the local construction industry
- ▶ To foster closer collaboration among academic institutions, research institutes, government departments, and private organisations in spearheading construction innovation
- ▶ To attract and nurture talents and build a sustainable talent pipeline for industry development in Hong Kong



2.2 主席及行政總監的話

Messages from Chairperson and CEO



引領建造業創新 開創新里程 Leading Construction Innovation in the New Era

我很榮幸發表香港建科院的首份策略報告，涵蓋我們自2024年8月成立以來至2025年12月31日的工作進展。對香港建科院而言，這是奠定基礎，滿載目標、成果與協作的一年。

建造業是香港發展的支柱，惟行業正面對重重挑戰：亞洲最高的建造成本、老化且日益短缺的勞動人口，以及預期在未來數年急升的建造工程量。面對行業轉型的逼切性，香港建科院將專注推動行業革新，實現鞏固香港在基礎設施和城市發展方面的全球和地區性領先地位的策略願景。

我們引領建造業創新，以實現高性能產業及可持續的建築環境。作為香港特別行政區政府全資擁有的公司，我們肩負公共使命，透過具體成果展現創新的變革力量，回饋建造業界。

I am pleased to present the first strategic report of the BTRi, covering the period from our establishment in August 2024 to 31 December 2025. This has been a foundational year of purpose, progress, and partnership.

The construction industry is the backbone of Hong Kong's development, yet it faces significant challenges: the highest construction costs in Asia, an ageing and shrinking workforce, and an anticipated surge in construction project volume in the coming years. Recognising the urgent need for transformation, BTRi was established as a dedicated driving force for change, charged with a strategic vision to underpin Hong Kong's global and regional leadership in infrastructure and urban development.

We are spearheading construction innovation to enable a high-performing and sustainable built environment. As a company wholly owned by the Government of the Hong Kong Special Administrative Region, we are entrusted with a public mission to serve the construction industry by demonstrating the transformative power of innovation.

成立首年，我們展開了超過30個創新項目，並建立了超過30個協作夥伴的網絡，展現了業界擁抱轉型的決心。我們的目標是務實應用，確保研發成果能夠真正用於實際項目。在眾多工作中，我們聚焦人工智能的策略性發展，深信其在整個建造流程，包括設計優化、工地安全、項目管理及質量控制等環節，均具革新建造流程的巨大潛能。

在短短一年多，我們已向實現此願景邁進重要一步。我們搭建了連繫政府、業界及學術界的平台，孕育創新蓬勃發展的協作生態；我們推出了多項認證計劃，逐步強化業界的品質保證；我們亦展開了審視及制定標準的重要工作，務求全面提升業界的安全、效率及可持續性，為未來做好準備。我們最近委託進行的人工智能應用策略研究，將制定具體及具實務性的藍圖，引領業界加快應用人工智能，並確立香港在相關領域的國際領先優勢。

我謹在此感謝各位合作夥伴、香港建科院團隊及特區政府給予我們的支持。憑藉首年建立的根基，我們將得以發揮策略優勢，為香港建造業作出更大貢獻。期待與各界夥伴同心同行，共建更穩健、更創新的未來。

By commencing more than 30 innovation projects and building a network of over 30 collaboration members in the first year of operation, we have demonstrated the industry's appetite for transformation. Our focus is not on research for its own sake, but on creating tangible solutions that can be adopted on-site and in practice. Among these efforts, we are placing emphasis on strategic development of artificial intelligence (AI), which holds immense potential to revolutionise construction processes—from design optimisation and site safety to project management and quality control.

In just over a year, we have made meaningful progress toward realising this vision. We have built platforms that connect government, industry, and academia—fostering a collaborative ecosystem where innovation can thrive. We have launched accreditation schemes that are already strengthening quality assurance across the industry. We have begun the critical work of reviewing and formulating standards that will enhance safety, efficiency, and sustainability for generations to come. Our recently commissioned strategic study on AI applications will provide a practical roadmap to accelerate adoption and position Hong Kong as a global leader in AI-driven construction.

I extend our deepest gratitude to our partners, our dedicated team, and the Government for their vision and support. The foundations laid in this first year strategically position BTRi to make ever-greater contributions to Hong Kong. Together, let us construct a more resilient and innovative future.

韓志強工程師，金紫荊星章，太平紳士
主席

Ir HON Chi-keung, GBS, JP
Chairperson



奠定基礎，創造影響：取得實際成果 From Foundation to Impact: Delivering Tangible Results

香港建科院於2024年8月成立時，我們便秉持著一個清晰的使命—透過推動創新應用、提升行業標準及以質量保證建立信心，助力本港建造業邁步向前。香港建科院成立的宗旨，正正是為了回應業界當前最迫切的挑戰—生產力持續下降、建造成本居高不下，以及勞動力日趨老化。短短一年間，我為我們與政府及業界夥伴共同取得的成就感到自豪。

過去一年，我們在建築創新的多個重要範疇均取得具體成果。在推動機械人技術及先進科技應用方面，我們開展了遙控天秤系統及機械人焊接的先導項目，為行業智能化踏出重要一步。在新材料應用方面，我們聯同業界制定了本港首份超高性能混凝土（UHPC）技術指引，並試行使用高延性輕質複合混凝土（LD-ECC），實證施工時間可大幅縮減四至五成。在成本效益方面，我們在其中一個項目透過風洞測試證實，隔音屏障的設計風荷載可較現行標準降低達三成，為工務工程項目大幅降低建造成本。

我們致力推動建造業未來發展所需的標準。我們的工作不僅限於更新技術規格以提升成本效益，更致力於構建基礎框架，促進新材料、新方法及新技術的規範化應用。

When BTRi was established in August 2024, we set out with a clear sense of purpose: to serve the construction industry by accelerating innovation, advancing standards, and building trust through quality assurance. We were founded to tackle the industry's most pressing challenges – declining productivity, high construction costs, and an ageing workforce. One year on, I am proud of what we have achieved together with our partners.

Our achievements this year span the full spectrum of construction innovation. We have advanced the adoption of robotics and advanced technologies through pilot projects on remote control tower crane systems and robotic welding. We have paved the way for new materials, co-formulating Hong Kong's first technical guidelines for Ultra-High Performance Concrete (UHPC) and piloting Low-Density Engineered Cementitious Composites (LD-ECC), which delivered a 40–50% reduction in construction time. We have also made significant progress in cost-effectiveness, demonstrating through wind tunnel testing in a pilot project that the design wind loads on noise barriers can be 30% lower than current design standards—unlocking potential savings for public works.

We are committed to advancing the standards that will define tomorrow's construction industry. Through our work, we are not merely updating technical specifications to achieve cost-effectiveness but establishing the foundational frameworks that will guide the adoption of new materials, methods, and technologies.

與此同時，我們透過制定完善的測試及認可框架，確保新技術能夠達到預期的質量標準及性能表現，從而建立業界信心。近期，政府已認可「組裝合成」製造商認可計劃 (MiC-MAS) 及建築產品認可計劃 (CPAS) 適用於工務工程項目，標誌着我們在品質保證工作上的一個重要里程碑。

在推展項目及認可計劃以外，香港建科院同樣重視構建業界協作平台。現時，我們已匯聚超過30個來自大學、政府及業界的協作夥伴，並舉辦多場知識分享及交流活動，積極參與粵港澳大灣區及其他地區的業界對話，持續深化跨界聯繫，為長遠創新發展奠定堅實基礎。

我衷心感謝香港建科院團隊的專業付出與悉力以赴，正是大家的努力，成就了今年的每一項成果。同時，我亦衷心感謝政府、業界及大學夥伴一直以來的支持與協作，攜手朝着共同願景邁進。

這段旅程才剛剛開始，然而目標清晰。展望未來，讓我們繼續攜手並進，加速推動成效，共同引領建造業的未來。

Through the development of robust testing and accreditation frameworks, we aim to build trust and ensure that new technologies deliver the expected standards of quality and performance. The recent government recognition of the Modular Integrated Construction Manufacturer Accreditation Scheme (MiC-MAS) and Construction Product Accreditation Scheme (CPAS) for public works projects marks a significant milestone in this endeavour.

Beyond projects and schemes, we have focused on building a community. With over 30 collaboration members from universities, government and the industry, numerous knowledge-sharing events, and active participation in industry dialogues across the GBA and beyond, we are fostering the connections that will sustain long-term innovation.

I extend my heartfelt thanks to the dedicated BTRi team, whose expertise and commitment have driven our achievements this year. I also thank our partners across government, industry, and academia for their collaboration and shared vision.

The journey has just begun, but the direction is clear. Together, we are accelerating impact and transforming construction.

黃國輝工程師
行政總監

Ir WONG Kwok-fai, Alfred
Chief Executive Officer



2.3 香港建科院 策略重點

BTRi strategic focus

項目成果

作為一間新成立的公司，我們致力於為各界持份者搭建協作平台，攜手推動建造業創新發展。香港建科院的主要成果包括：

PROJECT ACHIEVEMENT

As a newly established company, we have focused on building platforms that connect key stakeholders to spearhead innovation across the construction industry. Below are the key highlights of BTRi's achievements during the period:

推動機械人及先進技術的規模化應用

香港建科院正積極推動建造業機械人及先進技術的應用，以提升香港建造業的生產力、工地安全及工程質量。

我們正協助建築署及渠務署試行引入遙控天秤系統，藉以紓緩熟練工人不足的問題，並降低傳統塔吊操作所涉及的安全隱患。相關工作旨在制訂實用指引及技術規範，促進該系統獲更廣泛採用，進一步提升工地運作效率及安全表現。

另一方面，我們亦正制訂鋼結構機械人焊接的實務指南及技術指引，涵蓋最佳實務操作及標準流程，藉以提高焊接作業的效率、質量及穩定性。

透過上述各項工作，我們正與政府及業界夥伴緊密合作，致力將機械人技術及先進科技由試行階段推展至香港建造工地的落地應用。



SCALING ROBOTICS AND ADVANCED TECHNOLOGIES ADOPTION

BTRi is advancing the adoption of construction robotics and advanced technologies to enhance productivity, safety, and quality across Hong Kong's construction industry.

For the Architectural Services Department (ArchSD) and Drainage Services Department (DSD), we are supporting the pilot adoption of a Remote-Control Tower Crane System, addressing skilled labour shortages and safety risks associated with traditional tower crane operations. Our work aims to deliver practical guidelines and specifications to promote wider adoption and improve site efficiency and safety.

In parallel, we are developing a Comprehensive Guide and Technical Guidelines for robotic welding of steelworks, providing best practices and standardised protocols to enhance efficiency, quality, and reliability.

Through these initiatives, we are working with government and industry partners to bring robotics and advanced technologies from pilot trials to real-world applications on Hong Kong's construction sites.

推動先進材料邁向應用

香港建科院與土木工程拓展署合作，共同制訂超高性能混凝土結構應用的本地技術指引及特別規格，為本港同類指引中的首例。超高性能混凝土作為一種高性能材料，能顯著提升結構效率、耐久性及可持續性，而有關指引正為超高性能混凝土的應用奠定了基礎。透過建立清晰的技術框架，香港建科院正協助業界將這種創新材料落地應用，更有信心的融入建造項目當中，為香港構建長效的、更可持續的基建設施。

PAVING THE WAY FOR ADVANCED MATERIALS ADOPTION

BTRi, in collaboration with the Civil Engineering and Development Department (CEDD), has co-formulated the Technical Guidelines and Particular Specification for the structural use of UHPC —the first of their kind in Hong Kong. These guidelines pave the way for the adoption of UHPC, a high-performance material that significantly enhances structural efficiency, durability, and sustainability. By providing a clear technical framework, BTRi is supporting the industry to confidently integrate this innovative material into real-world construction projects, enabling longer-lasting and more sustainable infrastructure for Hong Kong.



提升成本效益

香港建科院致力推動建造業創新，以有效降低項目成本並提升建造效率。

香港建科院與香港科技大學合作，就元朗南新發展區第二期發展工程項目中部分隔音屏障進行風洞測試，研究其所承受的風壓。研究結果顯示，該工地隔音屏障所承受的設計風荷載可較現行設計標準的要求低百分之三十，從而降低了項目成本。

基於上述正面結果，香港建科院正積極為更多隔音屏障項目進行風洞測試，例如古洞北粉嶺北新發展區的項目，以實現優化設計及節省成本。

ACHIEVING COST-EFFECTIVENESS

BTRi is committed to promoting innovation in construction to effectively reduce project costs and enhance construction efficiency.

BTRi collaborated with the Hong Kong University of Science and Technology (HKUST) to conduct a study on the wind pressure of a portion of noise barriers in the Yuen Long South Phase 2 development project using wind tunnel tests. Based on this analysis, the design wind load borne by the noise barriers at the site was found to be 30% lower than required by current design standards, thereby reducing project costs.

Based on this positive result, BTRi is actively conducting wind tunnel testing for more noise barrier projects, such as the Kwu Tung North new development area, to achieve design optimisation and cost savings.

香港建科院亦與土木工程拓展署合作，推動在元朗南新發展區十八鄉交匯處新連接路工程中試行採用高延性輕質複合混凝土 (LD-ECC)。這種創新材料使施工時間縮減百分之四十至五十，令新道路得以提前五個月通車，同時確保結構完整性及耐久性。



In collaboration with the CEDD, BTRi supported the piloting of Low-Density Engineered Cementitious Composites (LD-ECC) for the construction of the Shap Pat Heung Interchange New Slip Road Embankment. This innovative material enabled a 40–50% reduction in construction time and allowed the new road to open five months earlier, while maintaining structural integrity and durability.



此外，香港建科院正與政府部門、業界持份者及學術機構合作，檢視多項現行的建築標準。透過持續檢討相關標準，旨在提升建造效率及生產力，同時降低建造成本。

Additionally, BTRi is working with government departments, industry stakeholders, and academic institutions to review a range of current building standards. Through continuous review of these standards, the initiative aims to improve construction efficiency and productivity while reducing construction costs.

▶ 優化現有設計參數：例如檢視建築物的設計荷載

▶ Optimising existing design parameters: for example, the design loading of buildings

▶ 制定地區專屬參數：例如就北部都會區等重點發展區域，檢視地基承載力及風荷載

▶ Developing region-specific parameters: for example, reviewing foundation bearing capacity and wind loading for key development zones such as the Northern Metropolis

人工智能應用策略研究

人工智能 (AI) 能夠有效應對建造業當前面臨的挑戰，為提升生產力、安全性及工程質量帶來前所未有的機遇。有見及此，香港建科院已委託進行一項關於人工智能在建造業應用的策略研究，旨在建立一套切實可行、以實證為本的框架，加速推動人工智能的應用，並鞏固香港作為全球基礎設施發展領先者的地位。

我們將全球市場上的人工智能方案進行系統性分類，歸納為28個應對特定行業挑戰的應用場景，涵蓋工地監督、法定合規追蹤及建造工程項目管理等範疇。

研究建議採取分階段推進策略，由試行優先應用場景起步，逐步將經驗證的方案納入建造業的強制要求，並輔以五項策略性配套措施：

- 在工務工程中實施強制應用規定，同時為私人工程項目提供誘因，雙軌並行推動應用；
- 建立經驗證的效能基準評估機制，以實證數據增強業界信心；
- 制定能力框架及認可制度，有系統地提升從業人員的專業技能；
- 建立綜合平台，連繫本地需求與經驗證的全球方案供應商；及
- 優先編製入門配套及實用指引，降低業界採用人工智能的門檻。

A STRATEGIC ROADMAP FOR AI ADOPTION

Artificial intelligence (AI) is well-positioned to address the industry challenges, offering unprecedented opportunities to enhance productivity, safety, and quality. Recognising this potential, BTRi has commissioned a strategic study on AI applications in the construction industry to provide a practical, evidence-based framework that accelerates AI adoption and supports Hong Kong's position as a global leader in infrastructure development.

We categorised AI solutions in the global market into 28 application contexts addressing specific industry challenges - such as site supervision, statutory compliance tracking, and construction project management.

The study proposes a phased approach from piloting priority use cases to mandating proven solutions in the construction industry, supported by five strategic enablers:

- A dual-track approach combining mandates for public works with incentives for private projects;
- Verified performance benchmarking to build confidence through evidence;
- Workforce capability building through competency frameworks and accreditation;
- An integrated solution hub connecting local needs with verified global suppliers; and
- Prioritised starter packages with practical guides to lower adoption barriers.

先進技術及產品質量保證

確保品質及可靠性，是創新方案得以成功應用的基礎。

QUALITY ASSURANCE ON ADVANCED TECHNOLOGIES AND PRODUCTS

Ensuring quality and reliability is fundamental to the successful adoption of innovative construction solutions.

「組裝合成」製造商認可計劃

香港建科院於2024年11月推出「組裝合成」製造商認可計劃 (MiC-MAS)，以加強「組裝合成」組件供應鏈，並提升模組的標準及可靠性。該計劃在推動創新及促進「組裝合成」建築法更廣泛應用方面發揮關鍵作用，有助鞏固香港在先進建造技術方面的領先地位。

在「組裝合成」製造商認可計劃下，所有製造商均須經香港建科院嚴格評審，以確保製造過程滿足品質、安全、環保、管理、物流、生產能力等標準。截至2025年12月，共有八間製造商獲MiC-MAS認可。

根據發展局於2026年2月9日發出的技術通告(工務)第2/2026號，凡於2026年4月1日或之後招標的基本工程項目，政府將採用香港建科院「組裝合成」製造商認可計劃下獲得認可的製造商名單，作為工務工程的核准「組裝合成」建築法供應商名單。



2025年6月 MiC-MAS 認證證書頒發儀式
MiC-MAS Certification Presentation Ceremony in June 2025

Modular Integrated Construction Manufacturer Accreditation Scheme



BTRi launched the Modular Integrated Construction Manufacturer Accreditation Scheme (MiC-MAS) in November 2024 to strengthen the MiC module supply chain and elevate the standards and reliability of MiC modules. The Scheme plays a crucial role in driving innovation and supporting the broader adoption of MiC technology, positioning Hong Kong as a leader in advanced construction methods.

Under MiC-MAS, all manufacturers undergo rigorous evaluation by BTRi to ensure compliance with standards covering quality, safety, environmental protection, management, logistics, and production capacity. As of December 2025, eight manufacturers have been accredited under the MiC-MAS.

Pursuant to the Development Bureau (DEVB) Technical Circular (Works) No. 2/2026 issued on 9 February 2026, for capital works projects with tenders to be invited on or after 1 April 2026, the Government will adopt the BTRi's list of accredited MiC Manufacturers under the MiC-MAS as the list of approved MiC suppliers for public works.



建築產品認可計劃
一站認證 全面快通

Construction Product Accreditation Scheme
Certify once · Fast PASs for all

建築產品認可計劃

香港建科院於2025年9月推出建築產品認可計劃 (CPAS)，旨在擴大建築產品市場，並推動香港採用優質且具成本效益的產品。

根據發展局於2026年1月13日的公布，基本工程項目的項目團隊現須接納持有有效認可證書的CPAS認可產品。CPAS作為政府認可的品質標誌，透過嚴謹及具透明度的評審程序，為供應商開拓市場機遇，同時為項目團隊帶來信心保證。

Construction Product Accreditation Scheme

BTRi has launched the Construction Product Accreditation Scheme (CPAS) in September 2025, with the aim of widening the construction product market and promoting the use of high-quality, cost-effective products in Hong Kong.

Following the DEVB's announcement on 13 January 2026, project teams for capital works projects are now required to accept CPAS-approved products with a valid live certificate. As a government-recognised mark of quality, CPAS provides suppliers with market access and offers project teams confidence through its robust and transparent assessment process.



構建可持續建築環境

過去一年，香港建科院在推動建造業減碳方面取得重要進展，致力透過循環經濟方式，包括廢物回收及提升資源效益，減少建造業的碳足跡。

香港建科院與土木工程拓展署及香港科技大學攜手合作，研究將生物炭及工業副產品如粒化高爐礦渣粉 (GGBS) 應用於土地淨化工程，作為普通水泥的可持續替代方案。此舉不僅有助減少碳排放，更可透過碳封存及廢物回收達致成本及環境雙重效益。

BUILDING A SUSTAINABLE BUILT ENVIRONMENT

During the year, we made meaningful progress across several initiatives aimed at reducing the construction industry's carbon footprint through circular economy approaches such as waste recycling and resource efficiency.

In collaboration with CEDD and HKUST, we are exploring biochar and industrial by-products such as Ground Granulated Blastfurnace Slag (GGBS) as sustainable alternatives to Ordinary Portland Cement for land decontamination, reducing carbon emissions while offering cost efficiencies and environmental benefits through carbon sequestration and waste recycling.



受水務署委託，香港建科院已完成一項關於供應經逆滲透處理的再生水用於私人冷卻塔的可行性研究，確認方案具備技術可行性，並擬定了清晰的實施路線圖，促進香港首次將再生水應用於私人冷卻塔的試點項目。

For the Water Supplies Department, we completed a feasibility study on supplying Reverse Osmosis-treated recycled water to private cooling towers, confirming technical viability and delivering a clear implementation pathway that supports Hong Kong's first pilot application.

香港建科院亦正協助環境保護署進行一項可行性研究，探討將焚化爐底灰轉化為建築材料。研究成果將有助制定本地技術標準、開展試點項目及推動相關持份者參與協作，促進香港可持續的廢物管理實踐。

We are also supporting the Environmental Protection Department in a feasibility study on recycling incineration bottom ash into construction materials. This work will guide local technical standards, pilot projects, and stakeholder engagement to advance sustainable waste management in Hong Kong.

促進學界、政府及業界的協作

截至2025年12月，香港建科院已匯聚超過30個來自學界、政府及業界的協作夥伴。

為進一步推動建造創新文化，我們於年內舉辦了多場知識共享會、境外高管考察及交流活動。

FOSTERING UNIVERSITY-GOVERNMENT-INDUSTRY COLLABORATIONS

As of December 2025, BTRi had over 30 Collaboration Members from universities, government, and industry.

To further foster a culture of construction innovation, we organised various knowledge-sharing sessions, executive visits outside Hong Kong, and networking activities during the year.



2025年6月香港建科院2025大會 — 「邁向新高峰：引領建築創新時代」
BTRi Conference - "Elevating to New Heights: Leading Construction Innovation in the New Era" in June 2025



2025年9月滬杭高管商務考察
Executive visit to Shanghai and Hangzhou in September 2025



2025年11月香港建科院研討會 — 「前瞻香港未來：從策略思維到先進標準」
BTRi Seminar - "Future-Proofing Hong Kong: From Strategic Mindsets to Advanced Standards" in November 2025

支持本地創新

香港建科院於2025年6月推出「BTRi創新夥伴計劃」，旨在成為試點應用及行業廣泛應用之間的橋樑，更好地支持創新，並確保建造業能充分受惠於這些創新成果。

計劃的首個創新夥伴 – 創冷科技，是一間紮根香港、提供創新無電製冷方案的公司。香港建科院正透過提供針對性支援，協助創冷科技拓展本地及海外市場，並同時協助制定相關技術標準，以加速商業規模化進程。

SUPPORTING LOCAL INNOVATIONS

BTRi launched the BTRi Innovation Partner Programme in June 2025, which is a strategic initiative designed to bridge the gap between pilot applications and industry-wide adoption, ensuring the construction sector can fully benefit from these innovations.

The Programme's first innovation partner is i2Cool, a Hong Kong-based company pioneering an electricity-free cooling solution. BTRi is facilitating i2Cool's journey toward commercial scaling by providing targeted support to increase both local and overseas market exposure, while concurrently assisting in the formulation of technical standards.

對話 · 實踐

過去一年，香港建科院積極參與大灣區內外的重要業界活動，與建造業分享見解及知識交流。我們就人工智能及機械人技術如何推動行業轉型分享見解，探討「組裝合成」建築法的發展機遇，並討論創新材料、技術及運輸基建的最新發展。我們亦就標準優化的議題積極建言，強調標準在推動建造業採納創新成果方面的關鍵角色。這些交流活動加強了香港建科院與業界夥伴、大學及政府持份者之間的聯繫。

DIALOGUE IN ACTION

Throughout the year, BTRi actively shared insights and exchanged knowledge with the construction industry through our participation in key industry events across the GBA and beyond. We shared insights on how AI and robotics are driving industry transformation, explored development opportunities in MiC, and discussed advances in innovative materials, technologies and transport infrastructure. We also contributed to dialogue on standards advancement, highlighting standards' critical role in enabling innovation adoption in the construction industry. These engagements strengthened our connections with industry partners, academia, and government stakeholders.

凝聚持份者

香港建科院主辦及合辦了多場工作坊，與業界持份者交流互動，就創新物料、技術以及新標準的制定收集意見。所收集的寶貴意見，對制定香港建科院的策略方針，以及確保各項工作緊貼業界的實際需要至關重要。

STAKEHOLDER ENGAGEMENT

BTRi organised/co-organised various workshops to engage industry stakeholders and gather their views on innovative materials and technologies and the development of new standards. The valuable feedback gathered has been instrumental in shaping our strategic priorities and ensuring our initiatives are closely aligned with genuine industry needs.



「組裝合成建築法灣區標準香港工作坊」
MiC GBA Standards Workshop (Hong Kong)

「創新建築材料工作坊」
Workshop on the Development of
Innovative Construction Materials

推動大灣區建造業的協同發展

在發展局及廣東省住房和城鄉建設廳（廣東省住建廳）的指導下，香港建科院擔任港方秘書處，並與粵方秘書處——廣東省建築科學研究院——緊密協作，共同建立一個統一平台，匯聚業界與學術界的專家，攜手制定灣區標準。

我們目前正為組裝合成建築法及高強度鋼材制定灣區標準，以提升整個大灣區在安全、可持續性及效率方面的表現。

PROMOTING SYNERGISED DEVELOPMENT OF THE CONSTRUCTION INDUSTRY IN THE GBA

Under the guidance of the Development Bureau and the Department of Housing and Urban-Rural Development of Guangdong Province, BTRi serves as the secretariat of Hong Kong side and works closely with the secretariat from the Guangdong side, Guangdong Provincial Academy of Building Research to establish a unified platform where industry and academic experts jointly formulate GBA standards.

We are currently developing GBA standards for MiC and high-strength steel, with the aim of enhancing safety, sustainability, and efficiency across the GBA.



2025年6月「公路及鐵路國際會議2025」
International Conference on Roads and Railways 2025 in June 2025

2025年9月第十屆「一帶一路高峰論壇」
10th Belt and Road Summit in September 2025

策略合作夥伴

為推動本地及國際建造業創新，香港建科院與多間領先機構建立合作夥伴關係，以促進創新建造方案的研發及應用。

香港建科院分別與廣東省建築科學研究院、新加坡建設局，以及三間本地大學——香港大學、香港科技大學及香港理工大學簽署合作備忘錄，共同協作交流及推動創新應用，以應對建造業迫切的挑戰。



簽署合作備忘錄
Signing of Memoranda of Understanding

香港建科院亦與廣東省建築科學研究院共同獲委任為新成立的粵港澳智能建造產業發展聯盟的理事長單位。該聯盟由廣東省住房和城鄉建設廳、中央人民政府駐香港特別行政區聯絡辦公室教育科技部和香港特別行政區政府發展局聯合指導，共有51家粵港澳三地的企業、高等院校和行業協會參與，致力推動智能建造和建築工業化的可持續發展。

STRATEGIC ALLIANCES

In a strategic move to drive construction innovation both locally and internationally, BTRi has forged partnerships with leading institutions to advance the development and adoption of new construction solutions.

BTRi signed Memoranda of Understanding (MoU) with the Guangdong Provincial Academy of Building Research, the Building and Construction Authority of Singapore, and three local universities, namely the University of Hong Kong, the Hong Kong University of Science and Technology, and the Hong Kong Polytechnic University, to collaborate and promote innovative applications that address the pressing challenges of the construction industry.

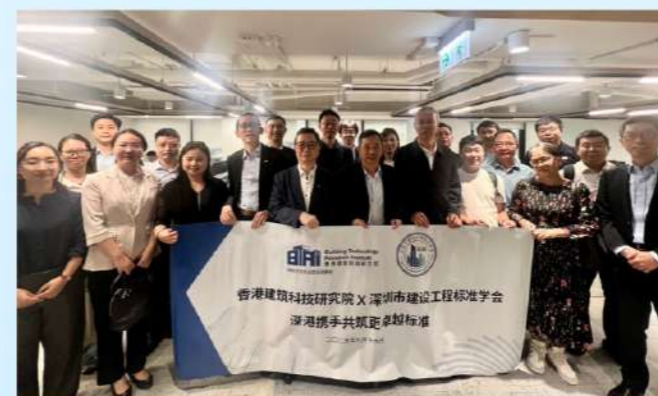
BTRi was also appointed as a director unit of the newly established Guangdong-Hong Kong-Macao Intelligent Construction Industry Development Alliance, alongside the Guangdong Provincial Academy of Building Research. Led by the Department of Housing and Urban-Rural Development of Guangdong Province, the Education and Science Department of the Liaison Office of the Central People's Government in the Hong Kong Special Administrative Region (HKSAR), and the DEVB of the HKSAR Government, the Alliance comprises 51 participating enterprises and institutions in Guangdong, Hong Kong and Macao fostering sustainable development in smart construction and the industrialisation of the construction industry.

深化區域及國際合作關係

香港建科院致力擔當香港、大灣區與國際建造業市場之間的「超級聯繫人」及「超級增值人」角色。我們積極與內地及海外的主要合作夥伴進行知識交流，涵蓋新加坡、東盟國家、中東及歐洲等地區。

FOSTERING REGIONAL AND INTERNATIONAL RELATIONS

BTRi is committed to acting as the “super-connector” and “super value-adder” for the construction industry between Hong Kong, the Greater Bay Area and the international market. We are actively engaging in knowledge exchange with our key partners in China, as well as overseas, including Singapore, ASEAN countries, the Middle East and Europe.



2025年9月與深圳市建設工程標準學會交流
Exchange with Shenzhen Construction Engineering Standards Institute in September 2025



2025年11月與深圳市綠色與智能建造學會交流
Exchange with the Shenzhen Green and Intelligent Construction Association in November 2025



2025年8月到訪新加坡建設局
Visit to the Building and Construction Authority of Singapore in August 2025



2025年6月「一帶一路」代表團出訪印尼和馬來西亞
Belt and Road Commissioner's Delegation to Indonesia and Malaysia in June 2025



2025年1月卡塔爾公共工程署到訪香港建科院
Visit by the Qatar Public Works Authority in January 2025



2025年5月參展英國建築周
Participation in UK Construction Week in May 2025

2.4 前瞻未來：加快成效 革新建造

LOOKING AHEAD: ACCELERATING IMPACT, TRANSFORMING CONSTRUCTION

香港建科院的長遠願景，是成為香港建造業備受認可的權威機構，以及成為大灣區及更廣泛地區推動建造創新的先驅力量。

隨着香港建科院由創立首年邁進成長階段，我們將繼續秉持此使命。我們聚焦於如何以最佳方式強化對建造業的支援與協作——與合作夥伴攜手應對共同挑戰，為香港創造可持續的長遠成果。我們已制訂策略路線圖，就各核心範疇訂立明確的優先工作重點。

Our long-term vision is to establish BTRi as a recognised authority in Hong Kong's construction industry and a pioneering force for innovation across GBA and beyond.

As BTRi moves from its first year into a phase of growth, we remain guided by a clear sense of purpose. Our focus is on how we can best serve the construction industry – working alongside partners to address shared challenges and create lasting value for Hong Kong. Our strategic roadmap below translates this vision into clear priorities across our core pillars.

加速創新應用

LOOKING AHEAD: ACCELERATING IMPACT, TRANSFORMING CONSTRUCTION

我們的重點工作包括：

- ▶ 在工務工程項目中先行先試先進材料（例如超高性能混凝土、高延性輕質複合混凝土）及人工智能解決方案，為項目團隊提供專業意見，並記錄表現數據，以支持日後更廣泛的應用
- ▶ 為業界從業員配對經實證、具表現基準的人工智能解決方案，從而降低業界應用的門檻
- ▶ 設立人工智能及機械人的專家樞紐，促進知識共享，並協助業界建立應用這些變革性技術的能力
- ▶ 將「組裝合成」建築法 (MiC) 列為重點優先工作，包括加強建築材料、運送、安裝流程的品質保證
- ▶ 持續推動可持續發展項目，並促進循環再用及環保材料在建造項目中的應用

Our focus areas include:

- ▶ Pilot advanced materials (such as UHPC and LD-ECC) and AI-driven solutions in public works projects, providing expert guidance to project teams and documenting performance data to support wider adoption
- ▶ Connect industry practitioners with verified, performance-benchmarked AI solutions tailored to construction applications, lowering barriers to industry-wide implementation
- ▶ Establish an expert hub for AI and robotics to facilitate knowledge transfer and build industry capability in these transformative technologies
- ▶ Advance MiC as a key priority, including strengthening quality assurance across materials, delivery, and installation processes
- ▶ Continue to drive sustainability initiatives and advance the use of recycled and sustainable materials in construction projects

以認可構建信心

我們的重點工作包括：

- ▶ 強化現行計劃——包括「組裝合成」製造商認可計劃及建築產品認可計劃——並擴大在本地及大灣區的認受性
- ▶ 探索為新興技術及材料開發新的認可及現場審核測試服務
- ▶ 探討建立創新材料及技術的測試能力

協調及提升標準

我們的重點工作包括：

- ▶ 協調各政府部門及業界持份者之間的規格要求，減少標準不一的情況
- ▶ 推進本地標準的檢討及更新，提升建造業的效率、可持續性及成本效益
- ▶ 為新興技術及材料制訂技術指引
- ▶ 為關鍵的新技術及材料制訂灣區標準，建立惠及整個區域的統一框架

BUILDING TRUST THROUGH ACCREDITATION

Our focus areas include:

- ▶ Strengthen existing schemes — including MiC-MAS and CPAS — and expand recognition locally and in the GBA
- ▶ Explore new accreditation and performance monitoring services for emerging technologies and materials
- ▶ Explore to develop testing capabilities for innovative materials and technologies

HARMONISING AND ELEVATING STANDARDS

Our focus areas include:

- ▶ Align specifications across government departments and industry stakeholders to reduce fragmentation
- ▶ Advance the review and update of local standards to enhance efficiency, sustainability, and cost-effectiveness across the construction industry
- ▶ Develop technical guidelines for emerging technologies and materials
- ▶ Formulate GBA standards for new key technologies and materials, with a focus on creating unified frameworks that benefit the entire region



強化創新生態系統

我們的重點工作包括：

- ▶ 促進大學、政府與業界的協作，透過會員活動及建造創新配對機制，連繫方案提供者與潛在用家
- ▶ 透過與區域和國際夥伴（尤其「一帶一路」沿線國家）保持緊密交流，以提升香港建科院的知名度及影響力
- ▶ 透過策略夥伴協作、專家網絡及人才培育計劃，構建專業人才庫，為建造業培育下一代創新人才

STRENGTHENING THE INNOVATION ECOSYSTEM

Our focus areas include:

- ▶ Foster University-Government-Industry collaborations through member events and an innovation matching mechanism that connects solution providers with potential users
- ▶ Enhance visibility and impact through active engagement with regional and global partners, particularly in Belt and Road countries
- ▶ Build strategic expertise through partnerships, expert networks, and talent development programmes to nurture the next generation of construction innovation leaders

我們期望凝聚大學、政府及業界，構建蓬勃的創新社群，共同塑造建造業的未來。

在首年奠定的基礎上，香港建科院已策略性地定位為推動香港及更廣泛地區建造業轉型的催化器。展望未來，我們期待在提升業界生產力、加強工地安全及促進可持續發展方面，為建造業及社會帶來更深遠的貢獻。



We aspire to bring together the university, government, and industry in a vibrant community to shape the future of construction.

The foundations laid in our first year strategically positioned BTRi as the catalyst for transformation across Hong Kong's construction industry and beyond. We look forward to making even greater contributions to enhancing productivity, improving safety, and advancing sustainability across the construction sector and the wider community.



3 企業管治

Corporate Governance

3.1 企業管治架構

香港建科院由董事局管治，負責制訂策略及領導公司，而實現公司目標及日常營運的責任則授予管理層執行。

Corporate Governance Structure

BTRi is governed by a Board of Directors, which has responsibility for strategic leadership and control of the Company. Responsibility for achieving the Company's objectives and running the business on a day-to-day basis is delegated to management.

公司架構 CORPORATE STRUCTURE



董事局

全體董事局成員由股東委任，一般任期為二至三年，任期屆滿後可再度委任，且不收取任何董事酬金。

截至2025年12月31日，董事局成員包括主席、副主席及七位董事，當中五位為官方董事。

BOARD OF DIRECTORS

All Board Members are appointed by the shareholders without receiving any honorarium, generally for a two- to three-year term and subject to re-appointment upon expiry of their terms.

As of 31 December 2025, the composition of the Board includes the Chairperson, Vice Chairperson and seven Directors, five of whom are Official Directors.

主席 Chairperson



韓志強工程師，金紫荊星章，
太平紳士
Ir HON Chi-keung, GBS, JP

副主席 Vice Chairperson



陳家駒博士，金紫荊星章，
太平紳士
Dr CHAN Ka-kui, GBS, JP

董事 Directors



鄺家陞工程師，銅紫荊星章
Ir John KWONG, BBS



潘巍教授，榮譽勳章
Professor PAN Wei, MH

官方董事 Official Directors



羅國權工程師，太平紳士
Ir LO Kwok-kuen, Joseph, JP



冼國良測量師
Sr SIN Kwok-leung, Alan



吳珮儀測量師，太平紳士
Sr Pelene NG, JP



馬漢毅工程師，太平紳士
Ir MA Hon-ngai, JP



陳柏祥工程師
Ir CHAN Pak-cheung

委員會

董事局轄下設有三個委員會，以協助董事局向香港建科院提供指導：

- ▶ **審計委員會**
監督所有與內部監控、風險管理、財務報告及外部審計程序的相關事務
- ▶ **業務發展委員會**
監督香港建科院的業務策略的制定及執行
- ▶ **財務及行政委員會**
監督香港建科院的財務及行政事宜

截至2025年12月31日各委員會的成員名單：

審計委員會 Audit Committee

羅國權工程師，太平紳士（主席）
Ir LO Kwok-kuen, Joseph, JP
(Chairperson)
陳家駒博士，金紫荊星章，太平紳士
Dr CHAN Ka-kui, GBS, JP
鄭家陞工程師，銅紫荊星章
Ir John KWONG, BBS

財務及行政委員會 Finance and Administration Committee

陳家駒博士，金紫荊星章，太平紳士
Dr CHAN Ka-kui, GBS, JP (Chairperson)
羅國權工程師，太平紳士
Ir LO Kwok-kuen, Joseph, JP
冼國良測量師
Sr SIN Kwok-leung, Alan
馬漢毅工程師，太平紳士
Ir MA Hon-ngai, JP

BOARD COMMITTEES

Three Board Committees were formed to assist the Board in providing guidance to BTRi:

- ▶ **Audit Committee**
Oversees the provision of all activities related to internal controls, risk management, financial reporting and external audit processes
- ▶ **Business Development Committee**
Oversees the development and implementation of BTRi's business strategies
- ▶ **Finance and Administration Committee**
Oversees BTRi's finance and administration matters

Below are the committee memberships as of 31 December 2025:

業務發展委員會 Business Development Committee

韓志強工程師，金紫荊星章，太平紳士（主席）
Ir HON Chi-keung, GBS, JP (Chairperson)
鄭家陞工程師，銅紫荊星章
Ir John KWONG, BBS
吳珮儀測量師，太平紳士
Sr Pelene NG, JP
陳柏祥工程師
Ir CHAN Pak-cheung
潘巍教授，榮譽勳章
Professor PAN Wei, MH

退任委員 Retired Member

何鎮雄先生，太平紳士
Mr HO Chun-hung, JP

董事局成員變動 MOVEMENTS OF DIRECTORS

新委任董事 New Directors	委任日期 Date of Appointment
羅國權工程師，太平紳士 Ir LO Kwok-kuen, Joseph, JP	2024年8月14日 14 August 2024
韓志強工程師，金紫荊星章，太平紳士 Ir HON Chi-keung, GBS, JP	2024年8月15日 15 August 2024
陳家駒博士，金紫荊星章，太平紳士 Dr CHAN Ka-kui, GBS, JP	2024年8月15日 15 August 2024
鄭家陞工程師，銅紫荊星章 Ir John KWONG, BBS	2024年8月15日 15 August 2024
陳柏祥工程師 Ir CHAN Pak-cheung	2024年11月15日 15 November 2024
馬漢毅工程師，太平紳士 Ir MA Hon-ngai, JP	2024年11月15日 15 November 2024
冼國良測量師 Sr SIN Kwok-leung, Alan	2024年11月15日 15 November 2024
潘巍教授，榮譽勳章 Professor PAN Wei, MH	2024年11月15日 15 November 2024
吳珮儀測量師，太平紳士 Sr Pelene NG, JP	2025年4月13日 13 April 2025

退任委員 Retired Director	退任日期 Date of Retirement
何鎮雄先生，太平紳士 Mr HO Chun-hung, JP	2024年11月15號委任，2025年4月13日退任 Appointed on 15 November 2024 and retired on 13 April 2025

會議及出席率

董事局及委員會定期舉行會議，並於有需要時召開特別會議。以下是香港建科院董事局會議及各委員會會議的出席紀錄：

MEETINGS AND ATTENDANCE

The Board and its Committees convene meetings on a regular basis. Special meetings are held as and when necessary. The following are attendance records of the BTRi Board and Board Committee meetings held during the period:

董事局會議 Board Meetings	21/2/2025	16/5/2025	22/8/2025	12/12/2025
期內董事局成員人數 Total number of directors during the period	9	9	9	9
董事出席人數 Total number of directors present at meeting	9	8	8	7
缺席人數 Total number of apologies	0	1	1	2
出席率 Percentage in attendance	100%	89%	89%	78%

審計委員會 Audit Committee Meetings	11/7/2025	31/10/2025
期內委員會成員人數 Total number of members during the period	3	3
委員會成員出席人數 Total number of members present at meeting	3	3
缺席人數 Total number of apologies	0	0
出席率 Percentage in attendance	100%	100%

業務發展委員會 Business Development Committee Meetings	11/7/2025	31/10/2025	28/11/2025
期內委員會成員人數 Total number of members during the period	5	5	5
委員會成員出席人數 Total number of members present at meeting	4	4	4
缺席人數 Total number of apologies	1	1	1
出席率 Percentage in attendance	80%	80%	80%

財務及行政委員會 Finance and Administration Committee Meetings	25/4/2025	18/7/2025	21/11/2025
期內委員會成員人數 Total number of members during the period	4	4	4
委員會成員出席人數 Total number of members present at meeting	3	3	4
缺席人數 Total number of apologies	1	1	0
出席率 Percentage in attendance	75%	75%	100%

管理層 MANAGEMENT

行政總監 Chief Executive Officer



黃國輝工程師
Ir WONG Kwok-fai, Alfred

部門主管 Section Head



李大安工程師（應用研發）
Ir LEE Tai-on (Applied R&D)



方志恆建築師（認可、認證與測試）
Ar FONG Chi-hang, Colin (Accreditation, Certification and Testing)



葉志宏工程師（標準制定）
Ir YIP Chi-wang (Standards Advancement)



麥琬翹女士（行政）
Ms MAK Yuen-kiu (Administration)

3.2 企業管治框架及程序

Corporate Governance Frameworks and Procedures

香港建科院致力恪守最高標準的企業管治。香港建科院的企業管治框架及程序旨在建立一套穩健的架構，以確保問責性、誠信及道德操守。有關框架及程序清晰訂明董事局及其轄下委員會的角色、職責及權限，確保對香港建科院的策略、營運及風險管理實施有效監督。此外，有關框架亦訂明公司管理層的職責，界定其在執行董事局指示及管理日常營運方面的問責責任。

上述企業管治框架及程序會因應最新的營運需要及營商環境的變化而適時更新。

BTRi is committed to upholding the highest standards of corporate governance. BTRi's corporate governance frameworks and procedures are designed to provide a robust structure for accountability, integrity, and ethical conduct. They clearly set out the roles, responsibilities, and authority of the Board of Directors and its committees, ensuring effective oversight of BTRi's strategy, operations, and risk management. These frameworks also set out the responsibilities of the Company's management, defining their accountabilities in executing Board directives and managing day-to-day operations.

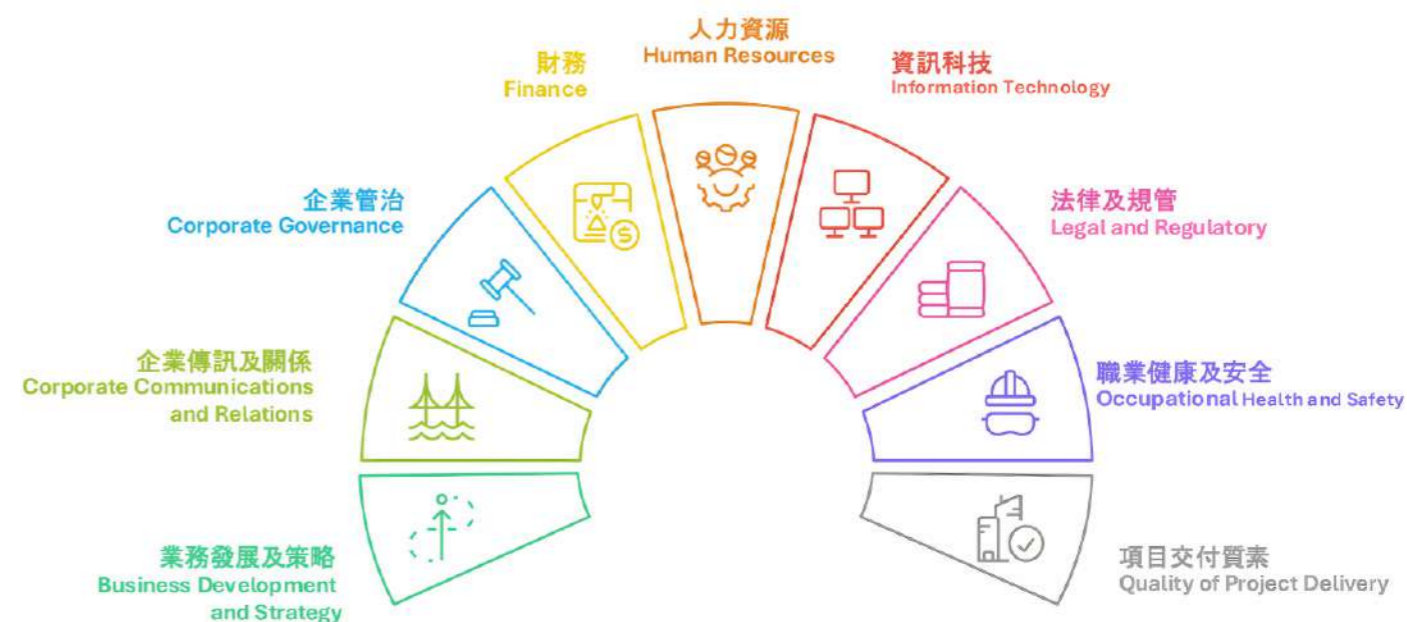
The corporate governance frameworks and procedures are updated from time to time to incorporate the latest operational needs and in response to the changing business environment.

風險管理

香港建科院設有穩健的風險管理框架，以識別、評估、緩解及監控可能對其運作及策略目標構成影響的風險。香港建科院備有風險登記冊，並定期進行檢視，以便於香港建科院各項活動中監測有關已識別的風險，包括：

Risk Management

BTRi maintains a robust risk management framework to identify, evaluate, mitigate and monitor the risks that could impact our operations and strategic objectives. A risk register is maintained and regularly reviewed to track identified risks across the BTRi's activities, including:



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Building Technology Research Institute (BTRi)

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