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<https://www.polyu.edu.hk/risud>

**Research Institute for
Sustainable Urban Development**
可持續城市發展研究院

About RISUD

As a result of the rapid economic development on the Chinese mainland, a massive urbanization process has been under way. Over the next 25 years, it is estimated that around 300 million rural dwellers in China will become urban residents. The scale of this process is unprecedented in human history, and the challenge is how to achieve it in a sustainable manner so that the natural environment is well protected and the built environment functions in an efficient manner in terms of energy and resources.

This massive urbanization process in China presents many opportunities for Hong Kong because many mainland cities are developing according to Hong Kong's high-density urban development model. Such cities are characterized by a great number of high-rise residential buildings and present many unique challenges for both construction and management.

Against the above background, the Research Institute for Sustainable Urban Development (RISUD) was established by The Hong Kong Polytechnic University (PolyU) to develop innovative solutions for sustainable high-density cities by capitalizing on the living laboratory of Hong Kong's urban environment and the multidisciplinary expertise of PolyU.

開發及推廣能達致可持續高密度城市發展的技術和策略，並在此領域執世界牛耳。

Mission

1. To create innovative solutions to problems generated by high-density urban development through multi-disciplinary, collaborative research;
2. To engage in knowledge transfer activities by collaborating with industry and government; and
3. To make an impact on societal culture of urban sustainability through community engagement and services.

關於研究院

中國經濟高速增長，神州大地踏上城市化之路。在未來二十五年裡，估計內地將約有三億農村人口變為城市居民，人數之多、規模之大，為人類歷史中所僅見。面對這項前所未有的挑戰，當務之急就是怎樣以可持續的方式實現城市化，在妥善保育自然環境之餘，能達至能源和資源節約型的人居環境。

在城市化的洪流中，很多內地城市均借鑒香港的高密度城市發展模式，為我們帶來不少機遇。這些城市往往建有大量高層住宅，無論是其施工或管理，都會出現不少獨特難題。

有見及此，香港理工大學特別成立可持續城市發展研究院(RISUD)，以香港這個成熟都市的切身經驗為本，薈萃大學裡跨學科的眾多科研專才，為發展可持續的高密度城市做出貢獻。

願景 Vision

To be a world leader in the development and dissemination of innovative solutions for sustainable high-density urban development.

使命

1. 進行跨學科的尖端研究，針對高密度城市發展所衍生的問題，提出可持續的解決方案；
2. 透過專家顧問服務及專業培訓促進知識轉移；以及
3. 為專業組織及政府機構提供服務，透過政府政策及社會文化推動可持續城市發展。

5 Research Focus Areas 五大研究領域



RISUD is led by Prof. Xiang-dong LI as Director and Prof. Albert P. C. CHAN as Associate Director. It includes 36 research groups which are organized into five divisions. The 36 research groups of RISUD are each led by a senior researcher who is an internationally recognized scholar in the area. The research groups, as the nodes of a dynamic interactive network, organize themselves by common interest to form strong teams for major multidisciplinary research projects to advance the frontiers of knowledge and technologies.

可持續城市發展研究院(RISUD)由李向東教授及陳炳泉教授分任院長及副院長，下設五大分部，統籌共三十六個研究小組。上述所有研究小組皆由在其專長領域聲譽卓著的資深學者擔任組長。這些小組猶如一個動態網絡裡的節點，可按共同感興趣的專題組成實力雄厚的科研團隊，開展大型的跨學科研究計劃，以探索知識與開拓尖端科技為目標。



1 Division of Urban Systems 城市系統分部

2 Division of Urban Infrastructure 城市基建分部

3 Division of Urban Environment 城市環境分部

4 Division of Green Buildings 綠色建築分部

5 Division of Smart Cities 智慧城市分部