

香港科學館 · 專題展覽

HONG KONG SCIENCE MUSEUM · SPECIAL EXHIBITION

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創 · 造 未 來
INNOVATIVE PATHWAY

香港工業新時代
Hong Kong's New Era of Industry

展覽簡介

AN OVERVIEW

香港的工業正處於重要的轉型，我們正經歷前所未有的科技躍進，眾多創新科技的湧現為各個產業帶來了新的機遇。這些創新科技與香港雄厚的產業基礎和資源相結合，促進了新型優勢產業的發展，成為經濟增長的強大引擎。

展覽透過五十多組展品展示本地科研人員和工業家如何在不同領域推陳出新，運用前沿技術解決現實世界中的問題，並將創新理念付諸實踐。這些創新設計涵蓋多個範疇，簡單如日常生活的衣食住行，以至於一些技術議題如轉廢為能、綠色科技、生命健康和先進製造等，足見其對社會的影響深遠。他們利用智慧科技提升生產效率和產品質量，形成新質生產力，既能降低成本，還可減少資源浪費並促進可持續發展。透過展示本地的科研成果如何轉化為市場商品的實際案例，展覽突顯出香港創科生態圈的活力與潛力。

展覽不僅介紹本地工業現況，還探討未來的工業前景，揭示香港新型工業化如何為長遠發展鋪路，推動社會進步與經濟發展。

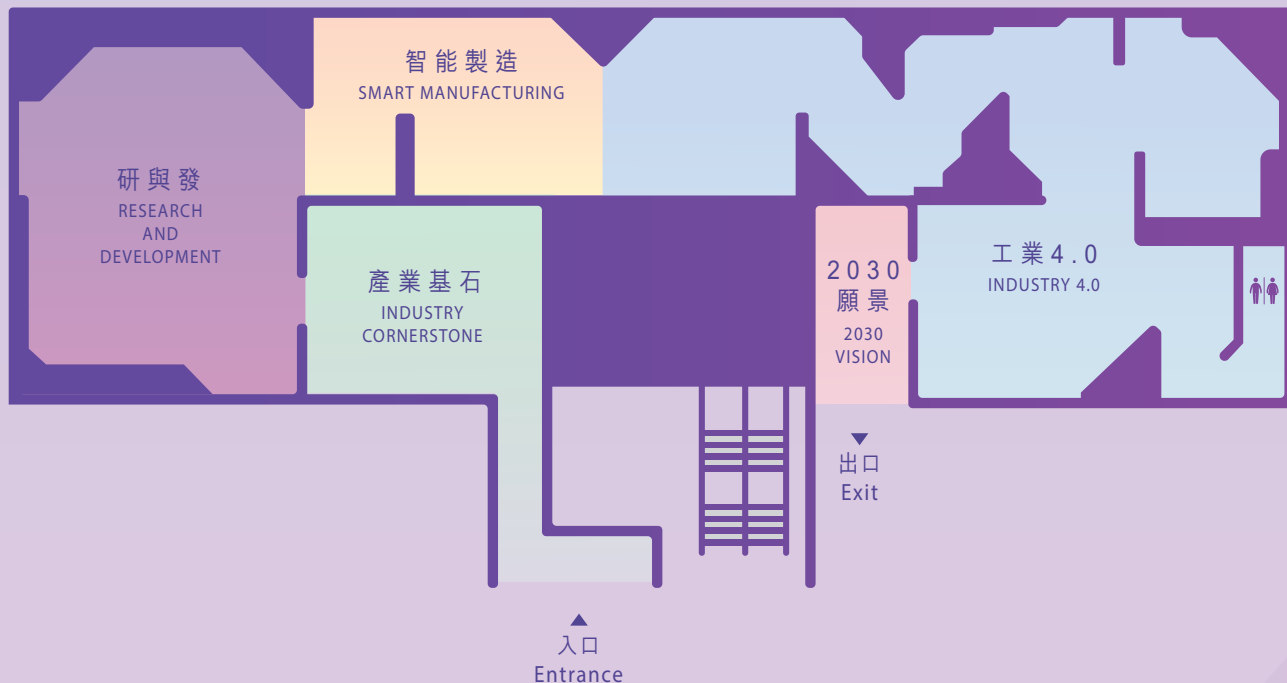
Hong Kong's industries are undergoing a critical transformation. We are experiencing an unprecedented technological leap, where the emergence of innovative technologies has created new opportunities across various sectors. These advancements, combined with Hong Kong's strong industrial foundation and resources, have fostered the growth of new industries with distinct advantages, serving as a powerful engine for economic development.

Through more than 50 exhibits, the exhibition showcases how local researchers and industrialists push the boundaries of innovation in different fields, apply cutting-edge technologies to real-world challenges, and turn innovative ideas into practical solutions. These innovative designs cover a wide range of areas, from simple necessities in our daily lives like clothing, food, housing, and transportation, to technical challenges such as waste-to-energy, green technology, life sciences and healthcare, and advanced manufacturing, demonstrating their profound impact on the society. They are leveraging smart technologies to enhance production efficiency and product quality, forming the new quality productive forces to reduce costs and minimise resource wastage, thereby promoting sustainable development. By presenting real-world examples of how local research is being transformed into products, the exhibition underscores the vitality and potential of Hong Kong's innovation and technology (I&T) ecosystem.

In addition to showcasing the current state of local industries, the exhibition also explores future industry prospects, highlighting how new industrialisation in Hong Kong is paving the way for long-term growth, driving social progress, and fostering economic development.

展覽平面圖

EXHIBITION FLOORPLAN



展覽特色

EXHIBITION HIGHLIGHTS

產業基石

INDUSTRY CORNERSTONE

這展區介紹香港新型工業化的科技基礎和香港產業的驕人成就，展示我們以發展創科和新質生產力推動本地產業和經濟的基礎。

This section introduces Hong Kong's technological infrastructure for new industrialisation and the remarkable achievements of Hong Kong's industries, illustrating the basis with which we develop I&T and new quality productive forces, driving local industries and economy.

研 與 發

RESEARCH AND DEVELOPMENT

一個完整涵蓋上、中、下游的創科生態圈有助於推動創科及其相關產業的發展。這個展區展示了多項本地研發的創新突破，涵蓋了與日常生活密切相關的多個領域，如衣、食、住、行。

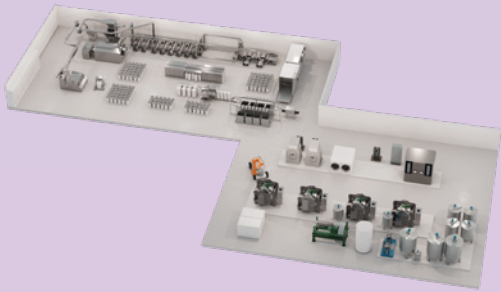
A comprehensive I&T ecosystem that covers upstream, midstream, and downstream sectors can help flourish the development of I&T and related industries. This section showcases the innovative breakthroughs of local research and development, covering various areas closely related to daily lives, such as clothing, food, housing, and transportation.

創研坊

Pilot Plant

創研坊是一條設於本地的紡織品循環再造生產線，能將舊衣物料轉化為有用的材料。觀眾可從互動展品中認識這種新型環保工業的流程，了解紡織物料如何被循環再造。

The Pilot Plant is a local textile recycling facility that converts waste textiles into useful materials. Through the interactive exhibit, visitors can find out the steps involved in this new environmental industry and understand how textile materials are recycled.



廚餘再生俠

Food TranSmarter

廚餘再生俠將廚餘轉化為漿液，令廚餘運送更具效率。觀眾可透過互動展品認識如何由社區收集及處理廚餘，並將它轉化為有用資源例如電力。

The Food TranSmarter liquefies food waste into slurry, making transportation easier and more efficient. Through this exhibit, visitors can discover how to collect and process community food waste, transforming it into valuable resources like electricity.

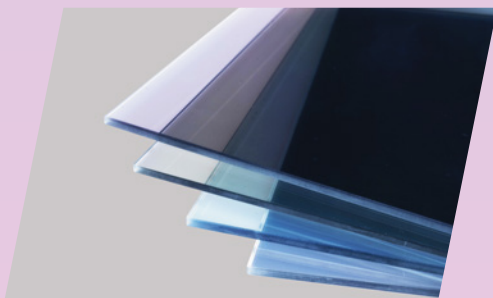


無電製冷材料

Electricity-free Cooling Material

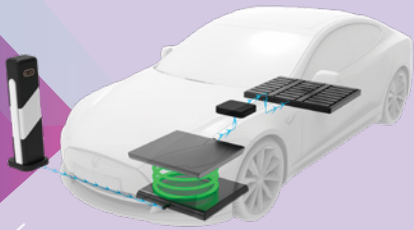
香港的科研人員研製出一款零耗能、無需製冷劑的被動式輻射製冷材料，可降低室內溫度。藉着互動展品，觀眾可測試這材料的隔熱功能，並了解它如何防止熱輻線穿透。

Researchers in Hong Kong have developed a passive radiative cooling material that lowers indoor temperatures without relying on electricity or refrigerants. This exhibit allows visitors to test the material's cooling capabilities and learn how it blocks heat radiation.



電動車無線充電

Wireless Charging for Electric Vehicles



電動車也可以無線充電。展覽展示一款於香港研發的電動車無線充電裝置，不受充電接口標準限制，可以兼容不同的電動車。

Electric vehicles (EVs) can also be charged wirelessly. The exhibition features a wireless EV charger developed in Hong Kong, designed to be compatible with various EVs regardless of their charging interface standard.

智能製造

SMART MANUFACTURING

智能製造是指在生產過程中結合智能科技的生產系統，以提升工廠的運作效率，降低生產成本，進而增強企業的競爭力。這個展區展示一些應用到現代工業生產中的機器，讓觀眾認識現代工業的智慧水平。

Smart manufacturing refers to the integration of intelligent technologies into production systems to enhance operational efficiency and reduce manufacturing costs, strengthening the competitiveness of enterprises. This section showcases machines used in modern industrial production, allowing visitors to see the advanced intelligence of modern industries.

注射成型

Injection Moulding



注塑機是一種利用注射成型技術批量生產塑料產品的機器。展覽展出一部工業用注塑機，讓觀眾了解先進機器如何自動化並高效地生產品質一致的製品。

An injection moulding machine is a specialised machine that utilises injection moulding technology to mass-produce plastic products. The exhibition features an advanced industrial injection moulding machine, giving visitors insight into how it operates to manufacture quality products consistently and automatically.

色選機

Colour Sorting Machine

色選機利用先進的光學、電子、機械和人工智能技術將大米、豆類等散裝物料進行分揀，是許多食品生產工業中不可或缺的重要設備。

Leveraging advanced optical, electronic, mechanical and AI technologies, colour sorting machines sort various bulk foods such as rice and beans, and are indispensable pieces of equipment in many food production industries.



以上兩件展品會於特定時段運作，詳情請參閱香港科學館網頁。

The above two exhibits will be operated in multiple sessions. For details, please visit the website of Hong Kong Science Museum.

工業 4.0 INDUSTRY 4.0

香港正積極把握新型工業化的浪潮，並把重點聚焦於生命健康科技、人工智能與數據科學，以及先進製造與新能源科技這三大優勢產業。展區介紹本地不同的團隊如何在這三大範疇推動科研成果轉化落地，實現香港新型工業化。

Hong Kong has actively embraced the opportunity to drive new industrialisation, focusing on three key industries where it holds distinct advantages: life and health technology, AI and data sciences, as well as advanced manufacturing and new energy technology. This section highlights how various local teams are facilitating the transfer of research outcomes in these sectors, contributing to the realisation of Hong Kong's new industrialisation.



腸道微生物菌群檢測

Gut Microbiome Test

有別於傳統的腸道微生態診斷，新的非入侵性檢測方法能從大便樣本中檢測多種腸道疾病風險。觀眾可使用智能互動展品，了解未來腸道檢測的可能性。

Contrary to the conventional gut microbiome diagnostics, the new non-invasive detection tools can detect the risks of a vast array of gut diseases from faecal samples. Visitors can discover the future possibilities of gut test through a smart interactive exhibit.

自動多重診斷系統

Automatic Multi-Diagnostic System

有本地團隊研發並生產出一部桌上型檢測系統，只需約1.5小時即可同時檢測逾40種呼吸道病原體。觀眾可嘗試啟動檢測系統，認識這項創新的醫療科技。

A local team has developed and manufactured a desktop diagnostic system that can detect more than 40 respiratory pathogens simultaneously in about 1.5 hours. Visitors can activate the diagnostic system to learn about this innovative medical technology.



智能建築機器人

Intelligent Building Robot

展示的機器人適用於天花板和牆壁的自動鑽孔和錨栓安裝，它利用人工智能技術分析和識別鑽孔目標，確保準確定位，能替代人手執行一些高風險的工作。

The robot on display is designed for automatic drilling and anchor installation for ceilings and walls. Using AI technology, it analyses and identifies drilling targets for precise positioning, reducing reliance on manual labour to perform risky tasks.

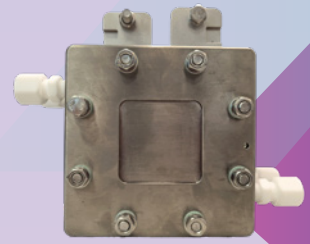


耐久氫燃料電池

Durable Hydrogen Fuel Cell

香港的研究人員開發了一種用於氫燃料電池的催化劑，成功刷新了氫燃料電池發電耐久性的世界紀錄。展覽展示這研發的實驗裝置和催化劑樣本。

Researchers in Hong Kong have developed a groundbreaking catalyst for hydrogen fuel cells, setting a new record for durability. The exhibition features experimental models and catalyst samples from the research.



STEM教育

STEM Education

在新型工業化的浪潮中，年輕人須更好地掌握快速變化的科技環境，增強科學知識和創新思維。STEM 教育因而成為了重要的一環。

Amid the wave of new industrialisation, it is crucial for young people to adapt to the rapidly evolving technological landscape by strengthening their scientific knowledge and innovative thinking. As a result, STEM education plays a vital role in this transformation.

2030 願景

2030 VISION

展覽的最後部分重點介紹香港未來的工業發展計畫，包括北部都會區的「河套深港科技創新合作區香港園區」和「新田科技城」。觀眾可了解這些發展計畫如何推動香港的科技產業，促進新型工業化，帶來新的經濟增長並為年輕人創造更多發展機會。

The final part of the exhibition highlights Hong Kong's future industrial development plans, including the Hong Kong Park of the Hetao Shenzhen-Hong Kong Science and Technology Innovation Co-operation Zone and the San Tin Technopole in the Northern Metropolis. Visitors can explore how these initiatives drive the growth of Hong Kong's technology industries, fostering new industrialisation, stimulating economic growth, and creating more opportunities for young people.

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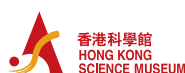


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