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支援中小企應對多變世界

SAFEGUARDING DATA SECURITY TO STAY COMPETITIVE
保障數據安全 提升競爭力

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HONG KONG'S AVIATION RECOVERY
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Digital Economy: Embracing Smart Logistics
數碼經濟：迎向智慧物流

Logistics automation helps to future-proof the operations of companies in a world where supply chain disruption is the new normal
供應鏈中斷已成為新常態，自動化物流技術有助企業確保業務運作能滿足未來所需

With the Government striving to promote a robust digital economy, Hong Kong's diverse industries are embracing the digital era, and traditional logistics companies are leading this transformation. Driven by advances in automation technology, smart logistics solutions are fuelling industry expansion by streamlining operations and increasing efficiency. This evolution is bringing unprecedented connectivity to Hong Kong's commercial landscape.

The automation of supply chain operations through integrated technology epitomizes smart logistics. This includes streamlining transportation, storage and packaging via standardized digital processes. In Hong Kong, the logistics sector is catching up with the other industries that are pursuing digital transformation. Currently, the adoption in Hong Kong is centred on foundational tech, such as automated storage solutions and robotic transportation systems.

Yet, as the industry evolves, the focus is set to shift towards more sophisticated aspects of the supply chain like smart procurement and comprehensive management systems. These advancements are not only incremental; they are transformative, offering enhanced transparency, responsiveness and data-driven decision-making throughout the entire logistics process.

Empowering Businesses

The Covid-19 pandemic heavily disrupted global supply chains and exposed weaknesses in traditional logistics models. With such ongoing uncertainty, many companies have recognized the need to build more adaptable operations, and automating warehousing and distribution processes can greatly help mitigate risks from future shutdowns or labour shortages and provide flexibility to adapt to changing circumstances while maintaining business continuity. Companies are turning to pioneers in logistics automation to future-proof their operations in a world where supply chain disruption is now the new normal.

With over three decades of experience, BPS Logistics Technology understands the needs of industries in Hong Kong. As experts in warehouse automation and logistics optimization, the company provides a wide range of end-to-end solutions, from consultation to implementation. In today's complex global supply chains, it is important to help logistics businesses maximize efficiency and accuracy through automated systems and data-driven processes, and the company is dedicated to advancing clients' operations through smart technology solutions tailored for Hong Kong.

Automating warehouses can provide significant benefits for Hong Kong's industries. By introducing state-of-the-art automation systems, it can improve Hong Kong's logistics technology capabilities and help solve two major issues – the lack of available manpower and limited land resources. Automated solutions allow companies to leverage robotics and software to reduce their dependency on human labour, helping address the worker shortage, technologies like three-dimensional storage systems also help optimise space utlilization

Kelvin Ko, CEO, BPS Logistics Technology
威裕物流科技行政總裁高繼維

inside warehouses. This allows businesses to store more inventory in less floor area. Overall, adopting advanced automation can help Hong Kong logistics companies elevate operational efficiency while simultaneously relieving the intense pressure on staffing requirements and land limitation.

Realizing Hong Kong's Reindustrialization

To align with Hong Kong's reindustrialization policy and to meet the needs for smart industrial production, the company has provided logistics infrastructure development and consulting services in building Hong Kong's first Advanced Manufacturing Centre (AMC), establishing Asia's first integrated production facility combining automation, smart logistics, and cross-industrial manufacturing capabilities. The automated shared logistics centre is equipped with advanced logistics technology such as pallet storage systems, autonomous mobile robots, high-speed conveyors, high-speed shuttle systems, and autonomous guided forklifts, which are all integrated and controlled by a Warehouse Execution System (WES) synchronising automated operations.

HK Electric's Automation Journey

To address HK Electric's storage challenges, BPS produced the inventive "Elevating Transfer Vehicle Storage System" (ETVSS) that revolutionized their cable drum and transformer storage. The customised system optimizes space by enabling vertical storage across four levels, preventing drum damage and streamlining inventory management. The intelligent software and multi-level racking facilitate rapid and accurate item retrieval from any location within the facility.

These case studies demonstrate how smart solutions powered by automation are transforming operations across Hong Kong. Industry leaders like AMC and HK Electric have strengthened their efficiency, productivity and competitive advantage by embracing such technology. As Hong Kong's digital transformation accelerates, smart logistics will remain a key driver of growth and connectivity.

近年，政府積極推動數碼經濟發展，香港各行各業都在加速數碼轉型，而傳統物流公司更是當中的先驅，透過採用自動化技術及智慧物流方案，提升物流效率及營運效益，為本地商業格局帶來前所未有的連貫性。

透過整合技術實現供應鏈營運自動化是智慧物流的縮影，其中包括以標準化數碼流程精簡運輸、儲存及包裝的程序。在香港，物流業正加緊追趕其他成功進行數碼轉型的行業，而本地行業的轉型主要集中在基礎技術應用，例如自動化儲存方案及機械人搬運系統等。

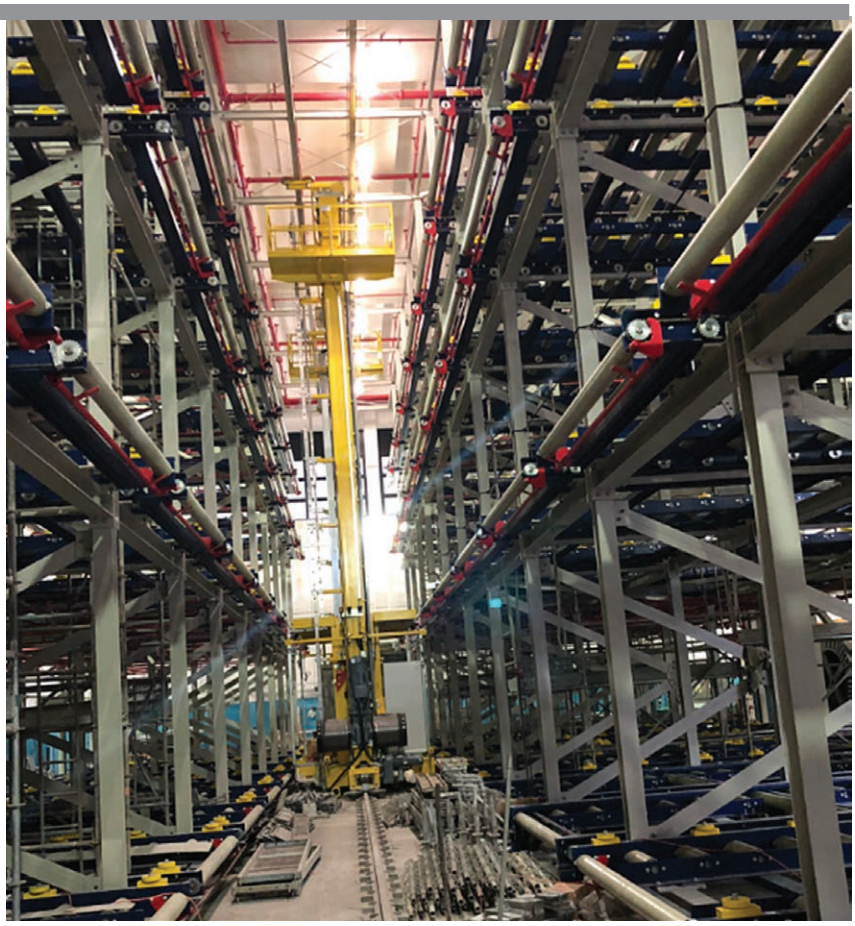
隨著物流業不斷發展，未來將倚重較精密的供應鏈環節，例如智慧採購及綜合管理系統等。這不僅是漸進式的轉型，更具備改造能力，為整個物流過程提供更高的透明度、快速的回應及以數據為本的決策。

推進業務發展

新冠疫情對全球供應鏈造成巨大衝擊，暴露了傳統物流模式脆弱不穩。許多企業意識到有需要建立更具彈性的營運模式，而自動化倉儲和配送流程能顯著減低日後停工或人手短缺帶來的風險，讓企業能靈活應對不斷變化的情況，確保業務運作無間。當供應鏈中斷已成為新常態，不少公司正轉向物流自動化，確保營運模式能滿足未來所需。

威裕物流科技（BPS）擁有逾30載的專業經驗，明瞭香港各行各業的物流需要。BPS作為自動化倉儲的及物流最佳化的專家，提供全方位物流方案，包括諮詢及實施等服務，以及先進的智慧自動化系統和數據主導的程序，協助物流企業提升業務效率及準確度，推進業務發展。

先進的自動化倉庫系統能為各行業帶來顯著效益，除了提高香港整體的物流科技水平，亦有助解決人手供應不足及土地資源短缺這兩大問題。自動化物流方案使用機械人及倉庫管理軟件，減少倚賴人手，幫助應對勞工短缺問題，而全自動化三維儲存系統技術，亦有助優化倉庫空間利用率，讓企業在更小的空間儲存更多的庫存。總括而言，先進自動化技術可助本港物流公司提升營運效率，同時紓緩人手及土地資源不足的壓力。



實現香港再工業化

為配合香港再工業化政策及滿足智慧工業生產需求，全港首個先進製造業中心（AMC）現已開幕，打造亞洲首個結合自動化、智慧物流及跨行業製造能力的綜合生產設施；而BPS則為AMC提供物流科技基建開發和諮詢服務。該自動化共用物流中心配備頂尖的物流技術，例如托盤存儲系統、自動檢貨機械人、高速輸送線、高速箱式穿梭車系統及自動導航叉車等，全部皆通過中央倉庫執行系統進行集成和控制，以同步化各項自動運作。

港燈自動化之旅

香港電燈公司（港燈）意識到傳統的電纜滾筒和變壓器儲存方式已不合時宜，BPS 為港燈設計了創新的「升降轉運車系統」，實現四層垂直存儲方式，大幅提高空間使用率之餘，亦避免滾筒損毀的風險，更將庫存管理化繁為簡。此外，智能軟件及多層貨架系統能快捷而精準地在倉庫內任何地方取得物品。

上述案例展示了由自動化驅動的智慧物流方案，協助本港企業革新營運模式。AMC及港燈等行業領袖透過應用相關科技，提升了效率、生產力及競爭優勢。隨着香港加速數碼轉型，智慧物流將繼續成為促進業務增長和連貫性的重要動力。