

AI登高 · 智慧領雄

高雄數位轉型進行式

AI ASCENDING: LEADING THE SMART ERA

*Empowering Kaohsiung's
Digital Transformation*





一個更友善幸福的城市

電影《功夫》中，主角歷經千辛萬難、脫胎換骨，練就飛天鑽地本領，只求以這份力量守護人人平安幸福；此刻高雄智慧城市專刊誕生，集結過去幾年高雄城市轉型奮鬥的來時路，練功蛻變的力量，來自科技也來自眾人以智慧帶來幸福的決心。

數位轉型、淨零轉型是高雄產業的生存之戰，也是必須把握住的機會。誰能迎接挑戰、解決問題，誰就能夠搶得先機。高雄市不僅是和自己賽跑，也是在全球城市競爭的賽局中爭取生存的有利位置。

在 AI 重塑產業的年代，我們強調 AI 自主與在地化的核心精神，讓 AI 走進城市每一個日常，推動以高雄在地資料為基礎的主權 AI 計畫，目前已成為全球影像語言模型最大的戶外應用場域之一，從全齡照護到防災治安，從交通能源到產業升級，服務市民的全方位需求，創造自主性的各項智慧解決方案，結合產官學研跨領域專業，以及可行的商業模式，帶動更多就業機會，同時也不忘轉型中弱勢族群應有的公義保障。

A Friendlier and Happier City

In the movie "Kung Fu Hustle," the protagonist undergoes a grueling transformation to master extraordinary skills, yet his ultimate goal is simply to ensure peace and happiness for all. As this Kaohsiung Smart City Special Edition is published, chronicling our transformative journey, I feel the profound power of this "metamorphosis." It is power rooted not just in technology, but in a collective determination to safeguard our citizens' well-being through wisdom.

Digital and Net-Zero transformations are critical for Kaohsiung's survival and success. Those who tackle these challenges will lead the future. We are not just racing against ourselves; we are competing globally to secure Kaohsiung's place in the future.

In the age of AI-driven industry, we prioritize Sovereign AI and localized integration. By leveraging Kaohsiung's local data, we have established one of the world's largest outdoor application sites for Vision Language Models (VLM). From healthcare and public safety to energy and industrial upgrades, we create autonomous smart solutions through cross-sector collaboration. This approach fosters viable business models and job creation while ensuring social justice for vulnerable groups during the transition.

高雄的超前部署不是口號，而是從基礎建設開始紮根。高雄市布局成為數位孿生城市，進行跨局處整合與內部教育訓練，同時與 NVIDIA、Linker Vision 與中華電信合作推動相關計畫，將數十萬棟建築與上百萬公里道路納入數位孿生模型，即時模擬各類災害情境並預警應變，持續提升城市治理效率與防災韌性。

在智慧轉型與淨零減碳的雙軸挑戰下，重工業的高雄比起其他各縣市，困難更多，但高雄沒有停下腳步，聘請國內外頂尖專業顧問，網羅前瞻建言，成立智慧城市專案辦公室。AI 應用、智慧治理、科技淨零等政策與預算配套同步推進，招商引資，藉由亞灣 S 廊帶促進產業轉型，推動高科技，引入新創產業進駐，創造半導體供應鏈與 5G AIoT 完整驗證場域，帶動南臺灣產業升級。

本刊記錄了這一群打拚的團隊，以人為本、用科技新創，讓幸福落實在市民生活的每一個細節。一個更友善的智慧高雄，是我們全力以赴的目標。

高雄市政府市長
陳其邁

Kaohsiung's proactive strategy is rooted in infrastructure. By evolving into a Digital Twin City, we have integrated cross-departmental data and partnered with leaders like NVIDIA, Linker Vision, and Chunghwa Telecom. With hundreds of thousands of buildings and millions of kilometers of roads mapped into digital twin models, we can simulate disaster scenarios in real-time. This foundational work continuously enhances urban governance efficiency and disaster resilience.

Facing the dual challenges of Digital Transformation and Net-Zero Carbon, Kaohsiung has transformed its industrial complexity into momentum by establishing Kaohsiung Smart City Project Management Office and synchronizing policies for AI, smart governance, and tech-driven decarbonization. Through the Asia New Bay Area (S-Corridor) initiative, the city attracts high-tech investment and startups to build a comprehensive ecosystem—ranging from semiconductor supply chains to 5G AIoT validation fields—accelerating industrial upgrades and sustainable growth across Southern Taiwan.

This publication chronicles the dedicated teams leveraging human-centric tech and innovation to bring well-being into every detail of daily life. Our unwavering goal is a more inclusive and smarter Kaohsiung.

Chi-Mai Chen
Mayor of Kaohsiung City



智慧築城 高雄發光

這幾年，高雄正在經歷一場華麗的蛻變。

市府團隊透過貫徹市長的施政理念，為這座城市的夢想插上翅膀。高雄正一步一腳印，從傳統工業城市走向永續發展的智慧典範。打造一座「以人為本」的城市，從來不只是口號，而是市府團隊對每一位市民朋友最深切的承諾。

面對變幻莫測的全球化腳步，高雄除了強化競爭力，更要有前瞻性的「智慧治理」思維：以市民福祉為中心、以產業導向為主軸、以國際輸出為市場，打造出市府團隊的戰鬥引擎—「三箭齊發」的關鍵戰略，結合資訊科技，全力衝刺智慧築城的目標。

許多人見證了高雄的城市轉型已然發生！從亞洲新灣區 5G AIoT 創新園區，繼而是亞洲資產管理中心，這些國家級重大建設不僅吸引科技人才進駐，更透過空間結構的翻轉，徹底解構了昔日港城的界線。今日的高雄港，已從傳統裝卸區轉型為智慧科技的創新基地，完美實踐了真正意義上的市港融合。這片土地不僅承載著研發能量，更重新回歸市民的日常生活，成為最具溫度的城市客廳與休閒地標。

這本刊物，記錄了我們與官產學研界夥伴共同築夢的點滴。每一項得獎實績，都是市民朋友已然熟悉不過的幸福生活。

高雄，正以「智慧城市」的名字，在國際舞台上閃耀。讓我們繼續努力，讓這座城市更加自信、更加發光！

高雄市政府副市長
林欽榮

Building a Smart City, Letting Kaohsiung Shine

In recent years, Kaohsiung has been undergoing a magnificent metamorphosis.

Driven by the city government's steadfast vision, we have given wings to the dreams of this city. Step by step, Kaohsiung is evolving from a traditional industrial hub into a global paradigm of sustainable smart development. Building a "people-centered" city is not just a slogan; it is our deepest commitment to every citizen.

Facing the unpredictable pace of globalization, Kaohsiung must strengthen its competitiveness through forward-thinking "Smart Governance." With citizen well-being as the core, industry orientation as the axis, and international export as the target market, we have ignited our "Three-Pronged Strategy." This powerful engine integrates information technology to accelerate our mission of building a smart fortress.

Many have witnessed this urban transformation firsthand. From the Asia New Bay Area 5G AIoT Innovation Park to the development of the Asia Asset Management Center, these national-level projects have attracted top-tier talent and restructured our spatial identity. By deconstructing the old boundaries between the port and the city, the Port of Kaohsiung has transitioned from a traditional cargo zone into a hub of tech innovation—a true integration of port and city. This land is now a vibrant "urban living room" where R&D energy meets daily life.

This publication chronicles the journey of dreaming together with our partners across government, industry, academia, and research sectors. Every award and achievement reflects the tangible happiness and well-being that our citizens experience every day.

Kaohsiung is now shining on the international stage under the banner of a "Smart City." Let us continue our efforts to make this city more confident, more resilient, and more radiant than ever before!

Charles Lin
Deputy Mayor of Kaohsiung City



產業轉型 國際競爭力

面對城市發展，我們一直思考，如何讓政策技術能高效對接產業的需求，實現數位轉型與產業升級，成為高值化智慧城市，讓高雄更增添國際競爭實力。

過去幾年，我們以數位與淨零「雙軸轉型」戰略，步步引領城市迎向新篇章。市府各局處除了積極推動基礎智慧應用，也成立了淨零學院，培育公私部門更多人才，凝聚產業轉型的淨零意識。

在團隊同心協力下，一個傳統石化重工業的製造重鎮，逐年轉型為高值化產業聚落，與此同時，城市淨零腳步也快速跟上，台積電、鴻海等大企業廠商紛紛進駐，招商引資、主動協助解決人才土地等需求，創新產業聚落逐漸形成，我們有信心，高雄將是智慧城市最有力的示範基地，並且有實力在全球產業鏈中扮演關鍵角色。

本刊記錄了科技落地與產業鏈結的成果，翻開一頁頁，不僅是階段性的回顧，也欣見市民有感的幸福，正在同步發生中。推動人與城市及科技的系統共融，帶動產業經濟的市場起飛，成長蛻變本來就不是一件容易的事，但走過的酸甜苦辣已化為豐富的果實，期許真正為人民生活帶來福祉。

高雄市政府副市長
羅達生

Industrial Transformation and International Competitiveness

In our urban development efforts, we have consistently focused on efficiently aligning policy and technology with industrial needs. Our mission is to achieve comprehensive digital transformation and industrial upgrading, evolving into a high-value smart city that bolsters Kaohsiung's international standing.

Over the past few years, we have guided the city into a new era through a "Dual-Axis Transformation" strategy, integrating digital and net-zero initiatives. Beyond promoting foundational smart applications across all departments, we established the Net-Zero Academy to cultivate talent in both the public and private sectors, fostering a shared commitment to industrial net-zero goals.

Through our team's concerted efforts, this traditional heavy-industrial manufacturing hub is steadily becoming a high-value industrial cluster. Our net-zero progress has accelerated alongside this shift. Leading global corporations, such as TSMC and Foxconn, have established a presence here, while the city government has been proactive in attracting investment and securing land and talent. As these innovative industrial clusters take shape, we are confident that Kaohsiung will become a premier demonstration base for smart cities, playing a pivotal role in the global supply chain.

This publication chronicles our achievements in technological implementation and industrial connectivity. Each page serves not only as a milestone review but also as a testament to the tangible happiness our citizens are experiencing. Harmonizing people, technology, and the urban environment while driving an industrial economic takeoff is no easy feat. However, the challenges we have overcome have now borne rich fruit, fulfilling our promise to bring lasting well-being to the people's lives.

Ta-Sheng Lo
Deputy Mayor of Kaohsiung City



數位服務 科技有溫度

智慧城市的推動，必須回歸以市民為核心。透過數據整合與服務設計，讓科技轉化為有感治理成效，才能體現真正的價值。過去幾年高雄積極推動數位轉型，市府團隊有志一同，從後臺資料整合到前臺智慧應用，不論在社福、醫療、教育、文化、觀光等面向，誕生一個個效率升級的服務新氣象，充分展現優化市政的熱情和決心。

本刊集結市府團隊和產學研界、市民朋友共同協作的成果，我們致力將數位技術應用在公共服務流程的再造與創新，建立穩定的基盤，打破政府部門之間的資訊孤島，提升數據整合能力，讓政策設計確實回應實際需求。這非常困難，但我們正在做，也獲得初步成效，為未來奠定基石。

AI 分析協助預警打詐、更精準的跨局處查詢與便捷解答、救災與醫療的整合應變、大型活動智慧交通疏運等，都已經成為經典案例，讓高雄更有信心透過縣市治理平台的經驗交流，分享擴散資源與創新成果，並為南台灣數位服務與永續發展做出貢獻。

從重工業城市轉型為多元宜居之都，高雄優化產業結構，打造半導體產業聚落，注重數位平衡（高科技與傳統產業），成立智慧控制中心，導入城市管理，提升資源效率，實踐人文理想。努力讓市民成為最大受益者，是高雄邁向智慧城市給予的最溫暖回報。

高雄市政府副市長
李懷仁

Digital Services: Technology with a Human Touch

Smart city development must ultimately return to its core: its people. Technology reveals its true value only when transformed into tangible governance through seamless data integration. Over the past few years, Kaohsiung has moved decisively toward digital transformation. Guided by a unified vision, our team has streamlined back-end data to power front-end applications across social welfare, healthcare, education, and tourism. This new era of efficiency reflects our unwavering resolve to optimize city management.

This publication showcases the collective achievements of government, industry, academia, and citizens. We are re-engineering public services through innovation, breaking down "information silos" to build a stable foundation. By enhancing data integration, we ensure policy precisely responds to real-world needs. While a formidable challenge, our efforts are yielding results that serve as a cornerstone for the future.

Success stories—including AI fraud prevention, cross-departmental inquiries, integrated emergency response, and smart traffic management—have become classic benchmarks. These milestones bolster Kaohsiung's confidence to share innovations through regional platforms, contributing to the digital advancement and sustainable development of Southern Taiwan.

Transitioning from an industrial hub to a livable metropolis, Kaohsiung is nurturing a premier semiconductor cluster. We emphasize "digital balance" between high-tech and traditional sectors, utilizing our Smart Control Center to enhance resource efficiency and fulfill humanistic ideals. Our goal is to ensure citizens are the primary beneficiaries—the warmest reward Kaohsiung offers as it evolves into a smart city.

Huai-Jen Lee
Deputy Mayor of Kaohsiung City

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The Grand Metamorphosis and Global Layout

AI 應用 人本關懷

AI for Humanity: Person-Centered Care



照片提供：高雄市政府觀光局

韌性與關懷

Resilience and Compassion

將 AI 應用於城市治理，透過 AI 與大數據，主動感知與預測，能為城市建構起一套預警式的安全防護網。

科技化為最即時的守護，協助識別環境中的潛在風險，透過陸空聯動的協同作戰與雲端即時聯網，將風險防範於未然，甚至在救災與執法上突出精準與速度，在醫療與長照上展現了人性的關懷，城市因而能成為更安全、更便利的智慧家園。

高雄市政府各局處聯手打造的 AI 方案，不僅體現以人為本的施政方向，更直接提升城市運作的效率，優化市民的生活品質，也帶領城市邁向永續與安心的未來。

The integration of AI into urban governance leverages big data and proactive sensing to construct a predictive safety net.

The transformational technology acts as a vigilant guardian, identifying latent environmental risks before they escalate. Through the synergy of land-air coordinated operations and real-time cloud connectivity, potential hazards are neutralized at the source. Furthermore, AI-driven solutions enhance precision and speed in disaster relief and law enforcement, while demonstrating profound human compassion in healthcare and long-term care. These advancements evolve the city into a safer, more convenient, and smarter home for all.

The AI solutions co-developed by the various departments of the Kaohsiung City Government reflect our people-centered governance philosophy. These initiatives do more than just streamline urban operations; they tangibly improve quality of life and lead our city toward a more sustainable, secure, and resilient future.



照片提供：高雄市政府觀光局

高雄市政府資訊處 Information Technology Office

智慧高雄主權 AI 燈塔計畫 Kaohsiung Sovereign AI Project

全球最先進的城市級主權 AI 平台

The World's Most Advanced City-Scale Sovereign AI Platform

結合輝達技術，高雄市率先建立屬於自己的城市主權 AI 系統，運用視覺語言模型，進行即時影像串流分析，有效掌握城市現況，快速發現問題並即時回應整合在交通管理、設施異常、災害管理等領域，讓 AI 走進城市日常，為市民打造更安全、便利的生活環境。 Powered by NVIDIA, Kaohsiung City pioneers its own sovereign urban AI system. Using vision-language models for real-time video analysis, it enables rapid situation awareness, early issue detection, and instant response across traffic, infrastructure, and disaster management—bringing AI into daily city operations to enhance safety and convenience for citizens.



2026 智慧城市創新應用獎 | 智慧政府領域
Smart City Innovation Award | Smart Government

2025 《財訊》22 縣市智慧城市競爭力調查 | AI 應用卓越城市領先群
Smart City Competitiveness Survey of 22 Cities | Leading Group in Excellence in AI Applications

智慧治理中心：即時輔助決策，讓治理行動一致。 Smart Governance Center: Precise Decisions, Real-Time Action.



自動化辨識 × 治理行動轉化 From Auto-Recognition to Action

透過 AI 模型分析道路、河川與公共空間等既有影像，並由系統即時辨識交通壅塞、積淹水、環境髒亂與道路設施異常等事件，大幅降低人工巡查所需的時間與風險，讓治理反應更即時。 AI analyzes real-time imagery across roads, rivers, and public spaces to detect traffic congestion, flooding, environmental and infrastructure anomalies—significantly reducing reliance on manual inspections while enabling faster, safer responses.

強化 AI 主權 × 提升治理效率 Smarter AI, Stronger Governance

將辨識成果整合至智慧治理平台，轉化為可追蹤、可管理的治理事件，協助跨單位即時通報與協同處理，全面提升處置效率。透過持續的模型訓練與優化，逐步累積各單位的核心 AI 能力，讓智慧治理真正回應市民需求。 Recognition outputs are integrated into a smart governance platform, enabling real-time, trackable actions and cross-agency coordination. Continuous model training strengthens in-house AI capabilities to better meet citizens' needs.

加速 AI 系統布建與服務擴展 Accelerating AI Deployment & Service Expansion

- 👍 全球首個 NVIDIA 城市治理應用案例
World's First NVIDIA Urban AI Case
- 📍 430 萬組在地影像資料標註
4.3M Local Image Data Annotations
- 📸 10 萬張罕見情境影像
100K Rare Scenario Images
- 👍 結合多模態視覺語言模型 (VLM) 與數位孿生技術
VLM & Digital Twin Integration
- 📊 3 萬影像來源，全球最大城市規模
30K Feeds: World-Leader in Imagery Generation
- 🏠 首創以影像 × 文字 AI 與數位孿生技術打造智慧治理中心
AI (Vision × Text) & Digital Twin: Smart Governance Hub
- 👍 全臺首個公私協力跨領域 AI 平台
Taiwan's First Cross-Domain PPP AI Platform
- 🏢 市府攜手國營企業，橫跨多元領域公私協力
City-SOE Multi-Domain PPP
- 📅 首創 108 城市治理情境，加速 AI 跨單位應用
108 Scenarios: Fast-Tracking Cross-Agency AI



高雄市政府交通局 Transportation Bureau

新一代智慧運輸系統

A New Generation Intelligent Transportation System

透過智慧分析優化城市交通疏運

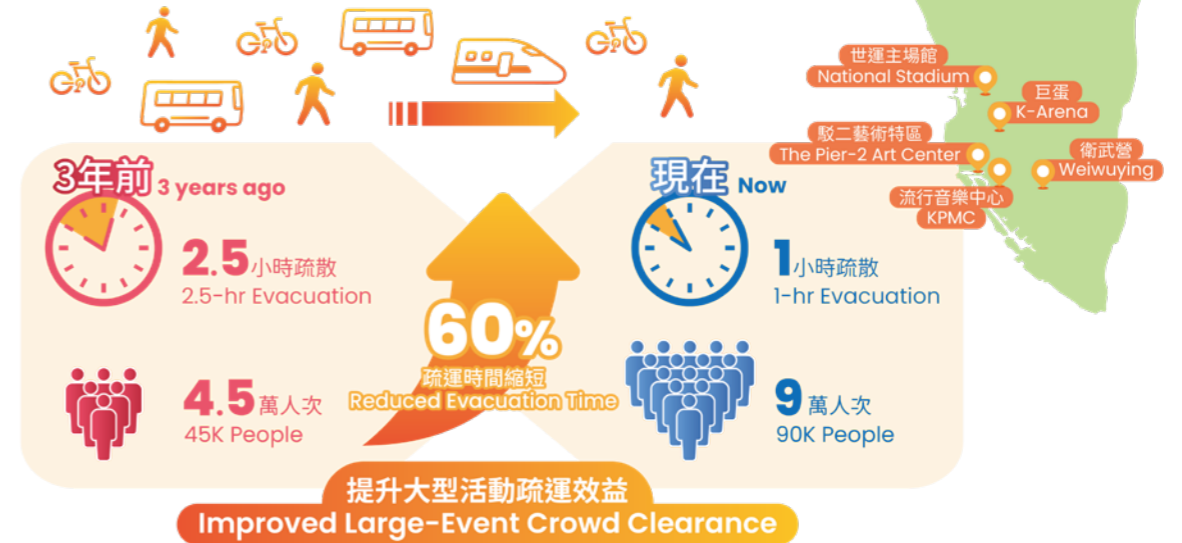
Optimizing Urban Mobility through AI & Big Data

AI 最佳化與大數據分析可以突破傳統交通控制的思維，高雄透過多部門的數據交換，提升交通事件的反應能力，縮短大型活動期間眾多人潮的疏散時間，展現城市交控發展技術的重大突破。

By leveraging AI optimization and big data analytics, Kaohsiung is redefining traditional traffic control. Through seamless cross-departmental data exchange, the city has significantly boosted its responsiveness to traffic incidents and slashed evacuation times during major events—marking a major breakthrough in urban traffic management technology.



- 2024 亞太資訊科技應用獎 | 傑出公眾合作服務獎**
ASOCIO | Public/Private Partnership Award
智慧城市創新應用獎 | 智慧交通領域
Smart City Innovative Application Award | Smart Transportation
- 2023 ITS 中華智慧運輸協會 | 智慧運輸應用獎**
ITS Taiwan | Smart Transportation Application Award
天下城市治理卓越獎 | 環境保護組
CommonWealth City Governance Excellence Award | Environmental Protection
智慧城市卓越貢獻獎 | 智慧運輸領域獎
Smart City Outstanding Contribution Award | Smart Transportation
- 2022 交通部 智慧運輸系統發展建設計畫評鑑計畫 | 特優獎**
MOT Special Excellence Award | Smart Transportation System Program



交通即時監控系統

Real-Time Traffic Monitoring System

透過地圖化平台、資料報表等資料，針對公共運輸、道路績效、停車需求、事件等主題監控，利用 AI 大數據資料分析和處理技術，透過歷史資料分析，並主動發布交通事件警告，跳脫傳統決策方式的不便性，能更快速的掌握影響程度，即時做出決策反應。

By leveraging map-based visualization and comprehensive data reporting, this system monitors public transit, road performance, parking demand, and traffic incidents. Utilizing AI big data analytics and historical patterns, the platform proactively issues traffic warnings. This shift away from traditional manual observation allows for immediate impact assessment and rapid executive response.

大數據監控城市交通

Big Data for City-Wide Monitoring

以電信公司提供的資料監控活動人潮，作為疏散計畫與接駁車路線和班次的評估依據，同時結合高雄捷運與輕軌即時進出站人數，作為班次調整與加派車輛的依據。

The system harnesses telecom signaling data to track crowd density during major events, providing an empirical basis for evacuation planning and shuttle bus routing. Simultaneously, it integrates real-time MRT and Light Rail (LRT) ridership data to dynamically adjust train frequencies and deploy extra vehicles where needed.

提升疏運效益與交通最佳化

Optimizing Evacuation & Traffic Efficiency

對於因活動人潮造成的交通擁擠現象，進行有效的疏運。經典案例為 112 年 4 月 1 日，以約 1 小時的時間，完成五月天、大港開唱、張惠妹等三場演唱會，將近 15 萬人次的交通疏運。

The system excels at mitigating event-driven congestion. A landmark success occurred on April 1, 2023, when the city successfully managed a massive influx of nearly 150,000 fans attending concerts by Mayday, A-Mei, and Megaport Festival—completing the entire transportation evacuation in just one hour.



AI 智慧化號誌控制系統

AI Smart Signal Control System

打造順暢流動的交通路網

Building a Seamless Transportation Network

都市成長帶來了龐大車流，解決尖峰時段的塞車等問題，是城市交通治理必須面對的課題。高雄市採取了全面升級智慧運輸服務的做法，透過路口 AI 影像辨識與交通模擬，讓系統能即時調整紅綠燈秒數，大幅增加主幹道的車流效率，紓解交通壓力，目前全市近 200 處路口設有智慧號控，有效降低 11% 至 25% 的停等時間，為市民帶來順暢流動的行事體驗。

To tackle urban congestion, Kaohsiung has upgraded its transport services with AI Image Recognition and Traffic Simulation. By adjusting signal timings in real-time, the system enhances arterial flow and reduces traffic pressure. With smart traffic light at nearly 200 intersections, the waiting times have been cut by 11% to 25%.



- 2025 智慧運輸產業 | 創新獎**
Innovation Award | Smart Transportation
- 2023 智慧運輸系統發展建設計畫評鑑獎 | 優等獎**
Transport System Development | Excellent Award

全數據整合監測

Data-Driven Integrated Monitoring

運用 AI 影像辨識技術，精準掌握不同車種、轉向車流資訊。系統結合動態時比與適應性控制技術，即時偵測交通事故或異常回堵。透過影像辨識平台，將海量的資料轉化為最佳化路網策略，讓號誌能根據即時狀況聰明思考，達成跨地域、多元化的交通數據整合管理。

Leveraging AI, the system precisely tracks vehicle types, and turning movement flow. By combining Dynamic Scaling and Adaptive Control, it instantly detects accidents or congestion, transforming big data into optimized network strategies for intelligent, cross-regional traffic data management.

靈活調控紓解路網壓力

Adaptive Control & Congestion Relief

針對交通量繁重的區域，系統透過即時車流偵測模組及路網式儀控策略，能夠演算出包括號誌控制、交通疏導等解決方案，讓道路運作更具彈性，有效提升路口績效，並降低車輛停等延滯的時間，讓車流更加順暢。

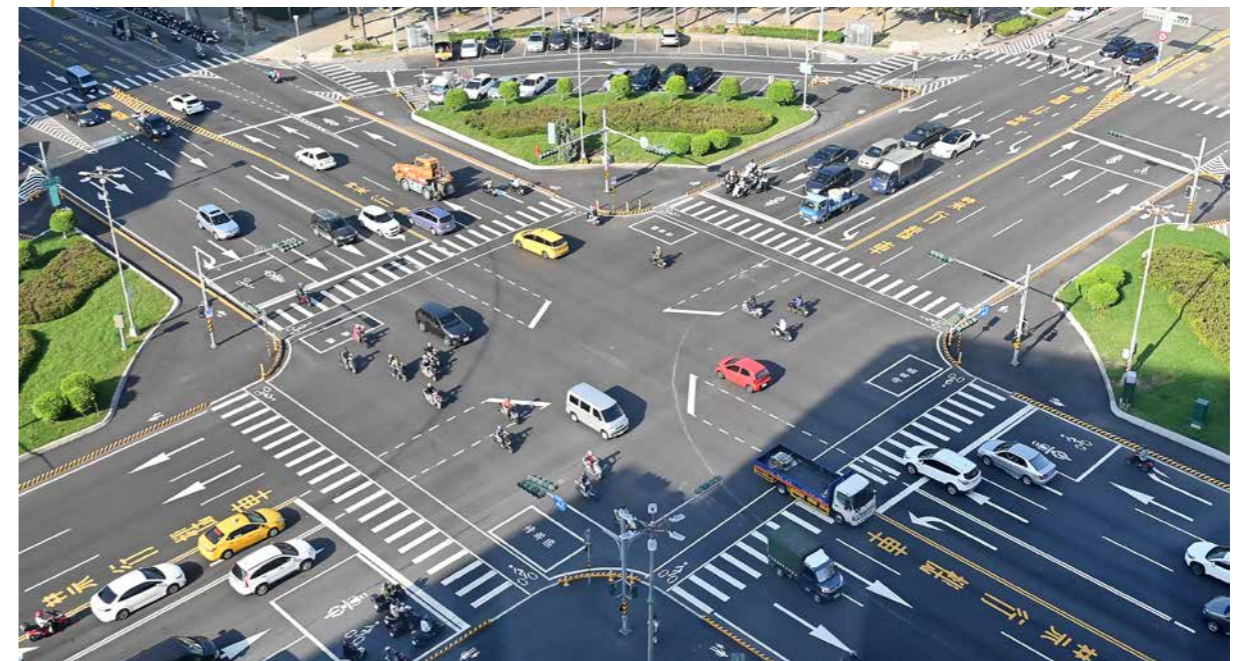
In high-traffic zones, the system utilizes real-time detection modules and network-wide control strategies. It calculates optimal signal solutions to increase road flexibility, improve intersection performance, and minimize vehicle delays, ensuring a smoother commute.

省時減碳雙重成效

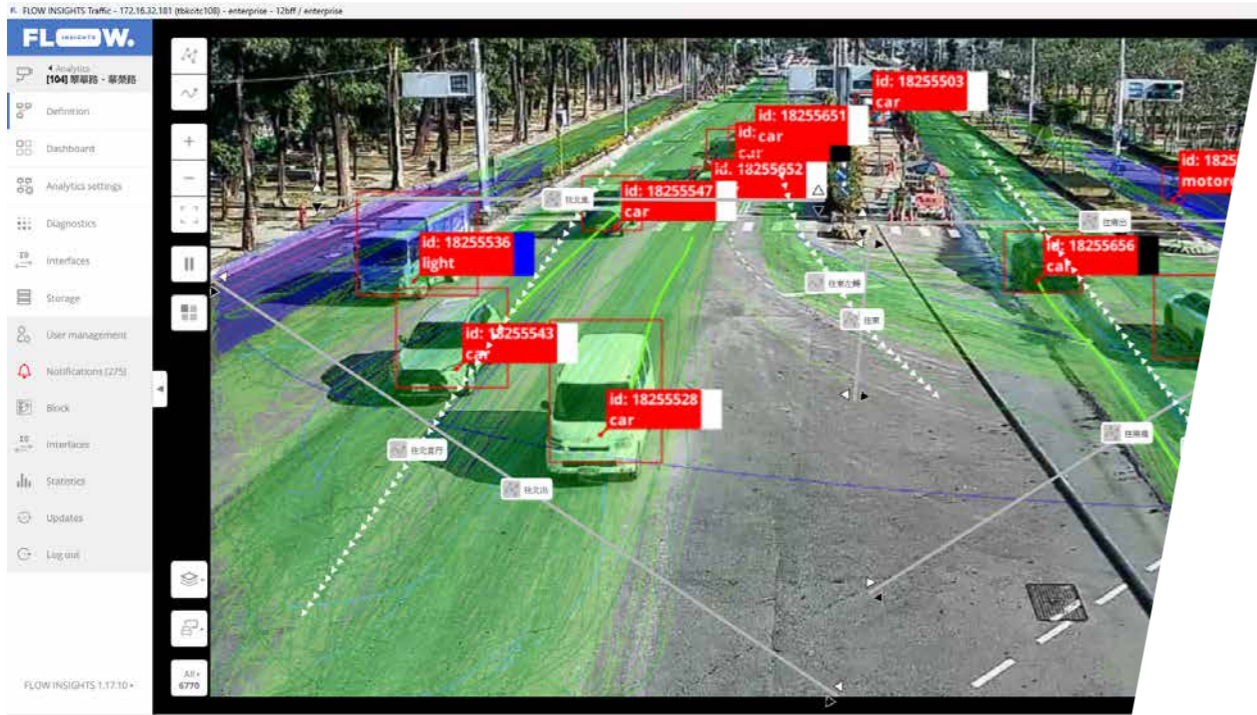
Dual Benefits: Time-Saving & Carbon Reduction

AI 號誌控制系統不僅縮短通勤路程，還為環境帶來節能減碳的效果。估計高雄市每年可省下約 8 萬車小時的旅行時間，並減少約 13 萬公升的燃油消耗，真正落實了國家淨零減碳的政策，也為市民打造一個更高效、永續且宜居的智慧城市。

Beyond shortening commutes, the initiative delivers significant environmental impact. Each year, Kaohsiung saves an estimated 80,000 vehicle-hours in travel time and reduces fuel consumption by 130,000 liters, actively fulfilling national Net-Zero policies for a sustainable, livable city.



攝影：Carter 照片提供：高雄市政府新聞局



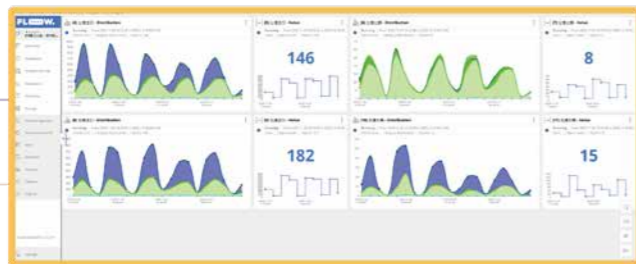
高雄市政府交通局 Transportation Bureau

路口 AI 影像分析 AI Intersection Image Analysis

智慧分析提升高雄交通路網安全性 Enhancing Kaohsiung's Network Safety via Intelligent Analytics

高雄的路口影像分析系統，已由傳統靜態計數進化為動態智慧分析，掌握車流變化、解析駕駛行為、預判風險熱區與瓶頸成因，讓馬路不再如虎口，大大提升了交通的安全性。此外，運用 AI 影像辨識技術，蒐集車流量、交通衝突及轉向行為，以及特殊車種與車輛延滯等多元交通特性資料，更可作為交通管理與策略研擬的重要依據。

Kaohsiung's intersection analysis has evolved from static counting to dynamic intelligent analytics. By monitoring traffic flow, analyzing driver behavior, and predicting high-risk zones or bottleneck causes, the system significantly improves road safety. Utilizing AI image recognition to collect data on traffic volume, conflicts, turning movements, and vehicle delays, the system provides a robust empirical foundation for traffic management and policy formulation.



風險預警與深度行為分析 Risk Warning & Deep Behavioral Analysis

透過車種辨識、轉向流量統計及起迄點矩陣，可充分掌握車流趨勢，並在結合動態軌跡、速度分布與碰撞時間、後侵占時間等指標後，辨識高風險區段進行衝突偵測，精準識別潛在衝突熱區與交通瓶頸區段，除強化事故預防，也提升了交通規劃的精準度。

By integrating vehicle classification, turning counts, and Origin-Destination (OD) matrices, the system captures comprehensive traffic trends. Furthermore, by combining trajectory tracking and speed distribution with safety metrics such as Time to Collision (TTC) and Post-Encroachment Time (PET), it enables precise conflict detection. This identifies potential hotspots and bottlenecks, enhancing both accident prevention and urban planning precision.

系統前端關鍵功能 Key Front-End Capabilities

- 大型活動人流偵測：即時掌握大型活動人潮分布與變化
Crowd Detection for Major Events: Real-time monitoring of crowd distribution and movement.
- 科技園區壅塞偵測：監測重點路段車流以快速辨識壅塞情形
Industrial Park Congestion Detection: Surveillance of key segments to rapidly identify and mitigate traffic jams.

跨域資料整合與流通應用 Cross-Domain Data Integration & Application

透過路口攝影機，依實務需求將車流、事件與告警資料介接至外部平台，促進市府內部與民間交通應用資料的互通。期望透過府內合作做到短期的異常告警、中期的瓶頸改善、長期的規劃設計，形成完整的交通決策生態，提升跨單位協同應變與管理效率。

Leveraging intersection cameras, the system interfaces traffic flow, traffic events, and alert data with external platforms to foster data exchange between the public and private sectors. By internal cooperation, the framework supports short-term emergency response, mid-term bottleneck improvement, and long-term infrastructure design, creating a comprehensive decision-making ecosystem that boosts inter-agency efficiency.





高雄市政府工務局 Public Works Bureau

數位孿生 5D 智慧城市工務管理暨決策輔助平台 Digital Twin 5D Smart City Public Works Management and Decision Support Platform

科技整合，打造精準防災的智慧城市

Integrating Technology to Build a Smart City with Precision Disaster Prevention

結合空拍、3D、AIoT、大數據分析與 AI 智慧決策等技術，高雄市將城市基礎建設全面 3D 化，並整合於單一系統平台上，串接跨局處資訊，即時監控城市環境，是目前國際上唯一以土木工程為主題的數位孿生平台，可模擬及預測未來災害形式，提出減災防災策略，提升工務緊急事件應變能力。

By integrating aerial imaging, 3D modeling, AIoT, big data analytics, and AI-driven decision-making, Kaohsiung has fully digitized its infrastructure in 3D on a unified platform for real-time monitoring. It is currently the world's only civil-engineering-focused digital twin platform, capable of simulating and predicting future disasters, proposing mitigation strategies, and enhancing emergency response for public works.



2026 智慧城市創新應用獎 | 智慧防災領域
Smart City Innovative Application Award | Smart Disaster Prevention

2025 IDC 未來企業大獎 (臺灣區) | 智慧城市特別獎—最佳連結城市
IDC Future Enterprise Awards (Taiwan) | Smart City Special Award – Best Connected City

ASOCIO 亞太資通訊科技應用獎 | 卓越數位轉型組織獎
ASOCIO Awards | Outstanding Digital Transformation Organization Award

財訊雜誌智慧城市大調查 | AI 應用卓越獎—環境監測與緊急救護類
Wealth Magazine Smart City Survey | AI Application Excellence Award – Environmental Monitoring and Emergency Rescue Category

智慧城市創新應用獎 | 智慧治理領域
Smart City Innovative Application Award | Smart Governance



跨域整合智慧科技 Cross-Domain Integration of Smart Technologies

平台以 GIS 為基礎，導入 3D 實景模型、AIoT、大數據分析、AI 智慧技術，以地理資訊系統為基礎，整合建築資訊模型、空拍 3D 實景及光達 3D 點雲技術，打造出高雄市專屬的數位孿生平台。
Built on a GIS, the platform integrates 3D real-world models, AIoT, big data analytics, and AI technologies, combining BIM, aerial 3D modeling, and LiDAR 3D point clouds to create the city's digital twin platform.

城市工務治理服務 Urban Public Works Governance

彙整建物、道路、橋梁、路燈、公園及地下管線、邊坡等各項動靜態的監測數據，以及 20 種以上的 AI 工程演算法，提供建物結構安全監測、建物碳水足跡智慧評估分析、建物屋齡與建材統計分布、防救災重要道路地震阻斷風險分析、邊坡安全監測通報、工地監控安全通報、行道樹傾倒監測預警、智能路燈、地下管線、共同管道、道路挖掘路證與即時施工影像等。
The platform integrates monitoring data for buildings, roads, bridges, streetlights, parks, underground utilities, and slopes, using over 20 AI engineering algorithms to enable structural safety monitoring, carbon footprint assessment, disaster route risk analysis, safety alerts, smart infrastructure management, road excavation permits, and real-time construction monitoring.

提升公共安全效能 Enhancing Public Safety Efficiency

整合至少 5 個子系統於同一平台使用，節省 5 倍時間，提升防災決策時間，降低 5 倍以上的工作量。24 小時守護易崩塌滑動的邊坡路段，提前發送訊息告知管理人員，節省道路管理成本，保護人員安全。
By integrating at least five subsystems into a single platform, the system saves up to five times the time, accelerates disaster-response decision-making, and reduces workload by over fivefold. It also provides 24/7 monitoring of landslide-prone slopes, issuing early alerts to managers to cut road maintenance costs and protect public safety.



高雄市政府消防局 Fire Bureau

陸空協同 AI 消防戰情系統

Land-Air AI Fire Command System

全方位掌握救災現場的鷹眼行動

Eagle-Eye Intelligence for Comprehensive Disaster Response

救災人員在第一線衝鋒陷陣，人員安全的維護是刻不容緩的課題。高雄市整合了智慧機器人戰隊與 AI 無人機智慧消防系統，以數據驅動為核心，建構陸空協同 AI 消防戰情系統，透過無人機偵查，影像即時傳輸，解決過往救災現場資訊盲區與決策時滯的痛點，實現救災效率，並提升救災人員的安全。

Firefighters operate on the front lines where safety is a critical priority. Kaohsiung has integrated a Smart Robot Fleet with an AI Drone Firefighting System to build a data-driven, land-air coordinated command center. By utilizing drone reconnaissance and real-time video transmission, this system eliminates information-blind spots and decision-making delays, maximizing operational efficiency while protecting personnel.



自動巡航起降技術

Autonomous Patrol & Deployment

偵搜無人機於災難現場，無需專業飛手操控，透過簡單步驟即可自動起飛並規劃巡航，並結合圖資規劃最佳飛行路徑，執行自動起降。

Scout drones at disaster scenes do not require professional pilots. Through a simplified interface, they can automatically take off, plan optimal flight paths via integrated mapping, and perform autonomous landing.

無人機多機協同作業

Multi-Drone Coordination

在災難現場，透過地控站操控多台無人機，自動起飛升空，相互配合部署於受災點的四個方位並提供各方位即時影像，以供在地指揮官掌握全方位訊息。

Commanders can control multiple drones from a single ground station. These drones deploy automatically to four strategic positions around the disaster site, providing synchronized, multi-angle live feeds for comprehensive situational awareness.

AI 視覺輔助降落技術

AI-Assisted Precision Landing

偵搜無人機將即時影像回傳至消防車地面控制系統，指揮官框選特徵點後，系統即可利用特徵匹配和物件追蹤技術，引導後勤無人機精準降落於目標區。

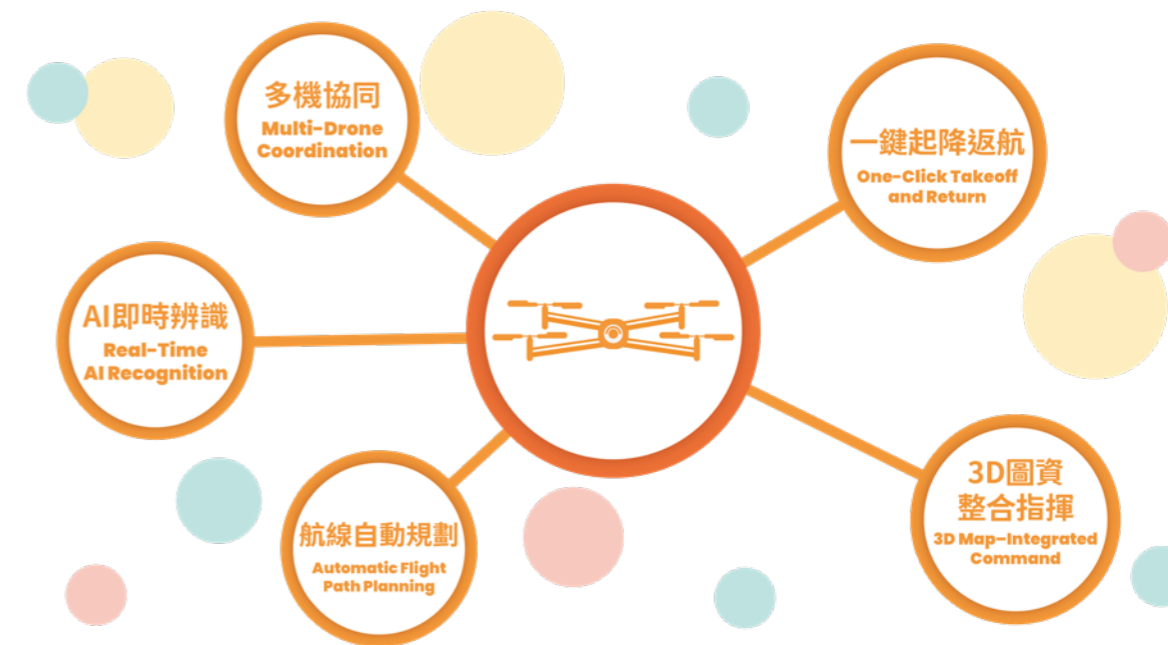
Scout drones transmit real-time video to the mobile ground control system. Commanders can select specific landing features, allowing the system to use feature-matching and object-tracking to guide logistics drones to target zones.

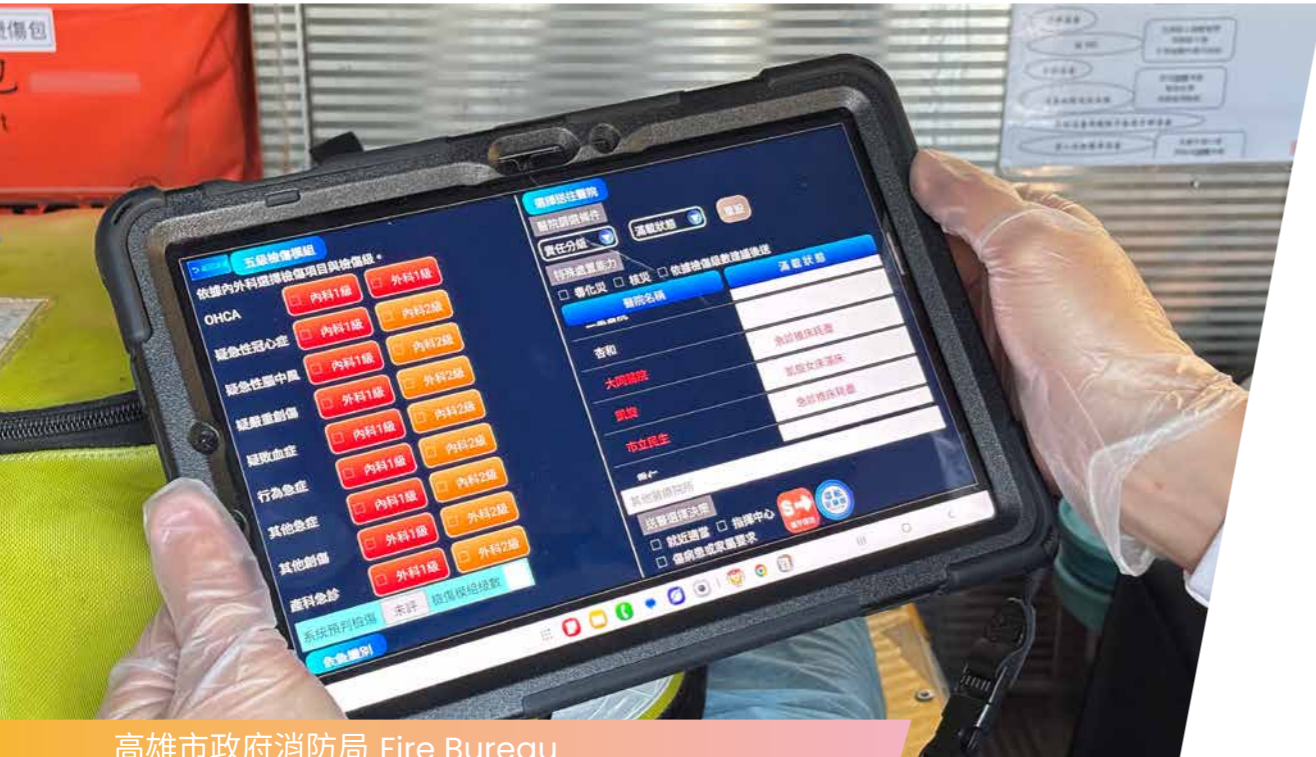
輔助救災現場精準決策

Precision Decision Support

支援人力派遣，協助消防員能精準確認著火點、避開結構崩塌或毒氣洩漏等危險區域。大幅提升前線救災安全性，讓消防員的戰術行動基於即時、透明的數據基礎，而非僅憑經驗判斷。

This technology enables precise personnel deployment by identifying fire origins and flagging hazards like structural collapses or gas leaks. Tactical actions are shifted from experience-based guesswork to decisions based on real-time, transparent data, significantly increasing frontline safety.





高雄市政府消防局 Fire Bureau

緊急救護雲端聯網 Emergency Medical Service (EMS) Cloud Management System

讓救命數據跑在救護車前面 Data That Arrives Before the Ambulance

傳統救護車是數據孤島，現在救護人員可以透過平板電腦即時登錄病患資訊，快速建立病例資料，並即時連線 119 指揮系統、醫療端資訊平台，成為爭取救人性命的資訊平台。緊急救護雲端聯網不僅優化了緊急救護案件的即時應變能力，更能有效支援緊急救護案件的快速通報與醫療調度的應變流程。

Previously, ambulances operated as "data islands." Today, paramedics use tablets to log patient vitals instantly, creating real-time medical records. This data is synced with the 119 Dispatch Center and hospital information platforms, turning data into a life-saving tool. This cloud-linked network optimizes emergency response, accelerates reporting, and streamlines medical dispatch workflows.



2020 第 3 屆「政府服務獎」 | 數位創新加值類
The 3rd "Government Service Award" | Value-added services of digital innovation
 智慧城市創新應用獎 | 智慧安全領域
Smart City Innovative Application | Smart Security

數據自動化，打造高品質作業能力 Automated Data for High-Quality Care

跳脫以往人工的填表資訊，減少漏記或筆誤的情況，自動將數據帶入系統，並透過後端統計數據，確保救護人員每次執行緊急救護的品質，提升作業能力，讓市民的安全更有保障。

By moving away from manual paper forms, the system eliminates logging errors and missing data. Automated data entry ensures high-quality care for every emergency call. This digital transformation enhances operational capacity and provides a more secure safety net for citizens.

從監測到送醫的全程應變 End-to-End Response: From Monitoring to Hospital

透過檢傷預警系統，自動分析生命徵象資料，判識病患危急程度，並經平台即時醫療通報，結合醫院載量資訊與救護車動態，調度最妥適的醫療資源，隨時掌握病患狀況並提前整備。

Using an Automated Triage Warning System, the platform analyzes vital signs to assess patient urgency. By integrating real-time hospital capacity data with ambulance tracking, the system dispatches the most appropriate medical resources. Hospitals can monitor patient conditions in real-time and prepare for arrival in advance.

爭分奪秒，全面連線救護雲端作業 Every Second Counts: 100% Cloud Integration

緊急救護雲端聯網啟用後，緊急救護案件通報整備時間可提前 5.5 分鐘。高雄市全數救護車配置平板電腦、支援雲端通報作業均達 100%，提升第一線救護判識醫療整備精準度及緊急救護應變效率。

Since the activation of the EMS Cloud Management System, hospital preparation time has been reduced by 5.5 minutes. Currently, 100% of Kaohsiung's ambulances are equipped with tablets and support cloud-based reporting. This has significantly improved frontline diagnostic accuracy, medical readiness, and overall emergency response efficiency.



AI科技輔導~走出藥癮迷途

AI-Powered Counseling:
Navigating the Path Out of Addiction

高風險動態自動預警
Automated High-Risk Dynamic Alerts

保護因子
Protective Factors

風險因子
Risk Factors

多維度科技家系圖
Multidimensional
Tech-Genogram

藥癮個案訪視雷達圖分析
Radar Chart Analysis for Addiction
Case Visits

高雄市政府毒品防制局 Department of Substance Abuse Control and Prevention

科技智慧毒防系統 Smart System for Illicit Drug Abuse Prevention & Counseling

ICARES 科技輔導 ~ 走出藥癮迷途 ICARES Navigating Drug Users the Path Out of Addiction

高雄市毒防局首創智慧毒防系統，以大數據 AI 科技輔導，發展 ICARES(AI + CARES) 提升輔導成效，降低藥癮再犯，並建置高風險自動預警與科技家系圖，連結毒防、治安、社安之風險預防，體現 SDGs、ESG 永續發展。

Kaohsiung city pioneers an AI Smart Drug Prevention System, implements the ICARES (AI + CARES) model, enhances counseling outcomes and reduces recidivism. Through the mechanism of automated risk alerts and digital genograms, enabling proactive risk mitigation and cross-network integration, we fully embody SDGs and ESG sustainable development goals.



2024 IDC 未來企業大獎臺灣區及亞太區「智慧城市特別獎 - 最佳市民福祉獎」 | 臺灣暨亞太區雙料首獎
IDC Future Enterprise Awards 2024 – Grand Winner of Special Award for Smart Cities
| Best in Citizen Wellbeing in both Taiwan and Asia-Pacific

天下城市治理卓越獎 | 社會進步組優選
CommonWealth Magazine Excellence in City Governance Awards | Social Progress
Category (Merit Award)

臺灣健康城市暨高齡友善城市獎 | 韌性與創新獎
Taiwan Healthy Cities and Age-Friendly Cities Awards | Resilience and Innovation
Award



2024 第 6 屆政府服務獎 | 數位創新加值獎
The 6th Government Service Awards | Digital Innovation and Value-Added Award
第 11 屆智慧城市創新應用獎 | 智慧安防獎
The 11th Smart City Innovative Application Award | Smart Security Application Award



輔導貼心—協助個案走出藥癮迷途 Compassionate Counseling – Guiding Individuals Out of Drug Addiction

以 AI 科技導入的「ICARES」，結合全人照護理念，提供藥癮者高度整合、有溫度的輔導，促進順利復歸社會、降低再犯。
The AI-enabled "ICARES" system delivers holistic, person-centered counseling for drug users to support successful social reintegration and reduce recidivism.

網絡同心—推廣社會服務工作服務場域 Collaborative Networking – Expanding Social Service Delivery Settings

推展智能化 ICARES 策略至社會服務機關 (構)，促進資訊擴散共享，提升整體輔導成效與強化跨域治理。
The intelligent CARES strategy is extended to social service agencies to facilitate information sharing, enhance overall counseling effectiveness, and strengthen cross-sector governance.

民眾安心—持續強化毒防網、治安網、社安網跨網絡合作 Public Assurance – Strengthening Cross-Network Collaboration in Drug Prevention, Public Safety, and Social Protection

結合多維度科技家系圖及高風險自動預警，發掘隱藏風險，強化跨網絡連結協作及風險預防，穩定社會安全。
Using multidimensional family genograms with automated early warnings, hidden risks are detected and cross-network collaboration is reinforced to ensure public safety.

環境信心—體現 ESG、SDGs 永續發展價值 Embodying ESG and SDGs Values for Sustainable Development

推動智慧無紙化及數位資料共享交換，實踐低碳轉型，守護環境永續發展，落實 SDGs 城市韌性目標。
Smart paperless operations and digital data sharing implement low-carbon transformation, safeguard environmental sustainability, and achieve the SDGs goal of urban resilience.



高雄市政府衛生局 Department of Health

御曲同工全人整合照護溝通協作平台 Life Concerto: Integrated Communication & Collaboration Platform

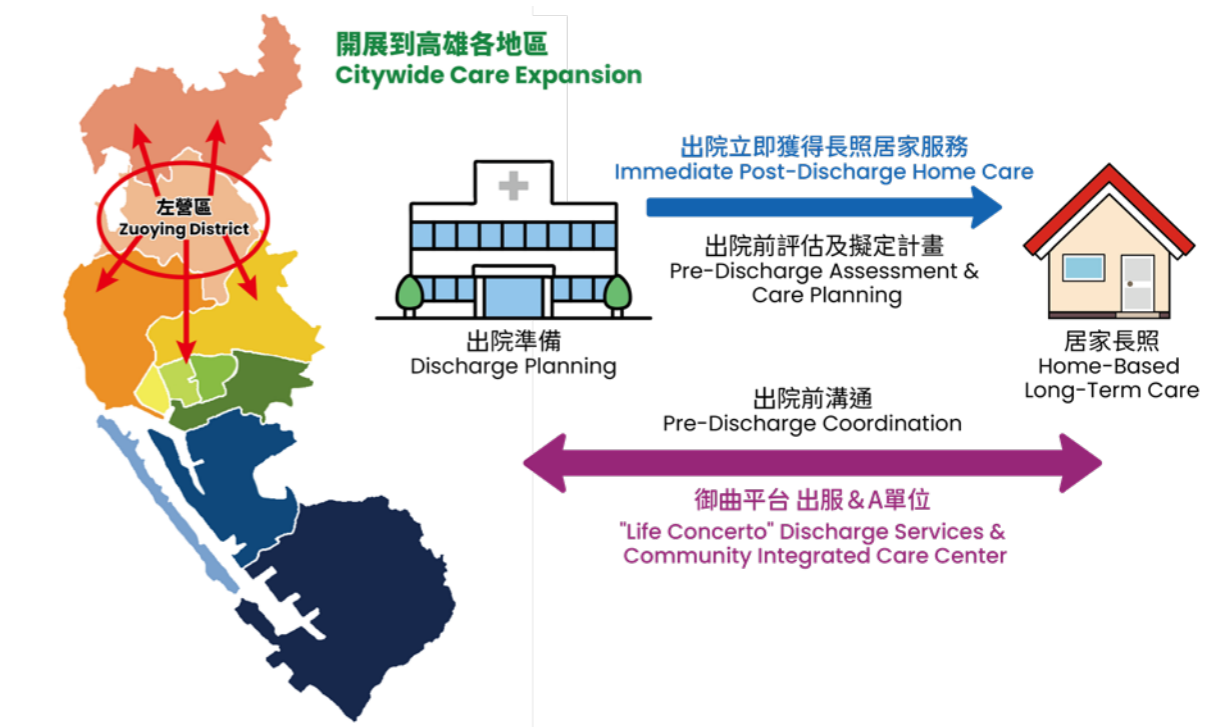
跨域合作且無縫接軌照護長輩 Seamless Cross-Domain Care for Seniors

透過產官學研跨域合作，由高雄榮民總醫院、國立陽明交通大學及九日生行動健康科技共同研發的平台，與高雄市政府衛生局合作推動規劃以獨居樂民長輩為主，經過跨專業協作、資料共享及人工智慧輔助健康紀錄，將各方資料作系統化串接，也把各單位到府關懷打卡的訪視記錄下來，資訊共享，讓長輩的照護服務具有連續性，並進而提升服務的品質。

Born from a powerful partnership between Kaohsiung Veterans General Hospital, NYCU, and 9 Days Health, Life Concerto is a revolutionary platform designed for solo-living and elderly-only households. By integrating interdisciplinary collaboration, data sharing, and AI-assisted health tracking, we bridge fragmented services into a continuous, high-quality care network.



2024 總統盃黑客松 | 卓越團隊獎
Presidential Hackathon Award | Outstanding Team Award



社區獨老關懷與訪視支援 Community Outreach & Support

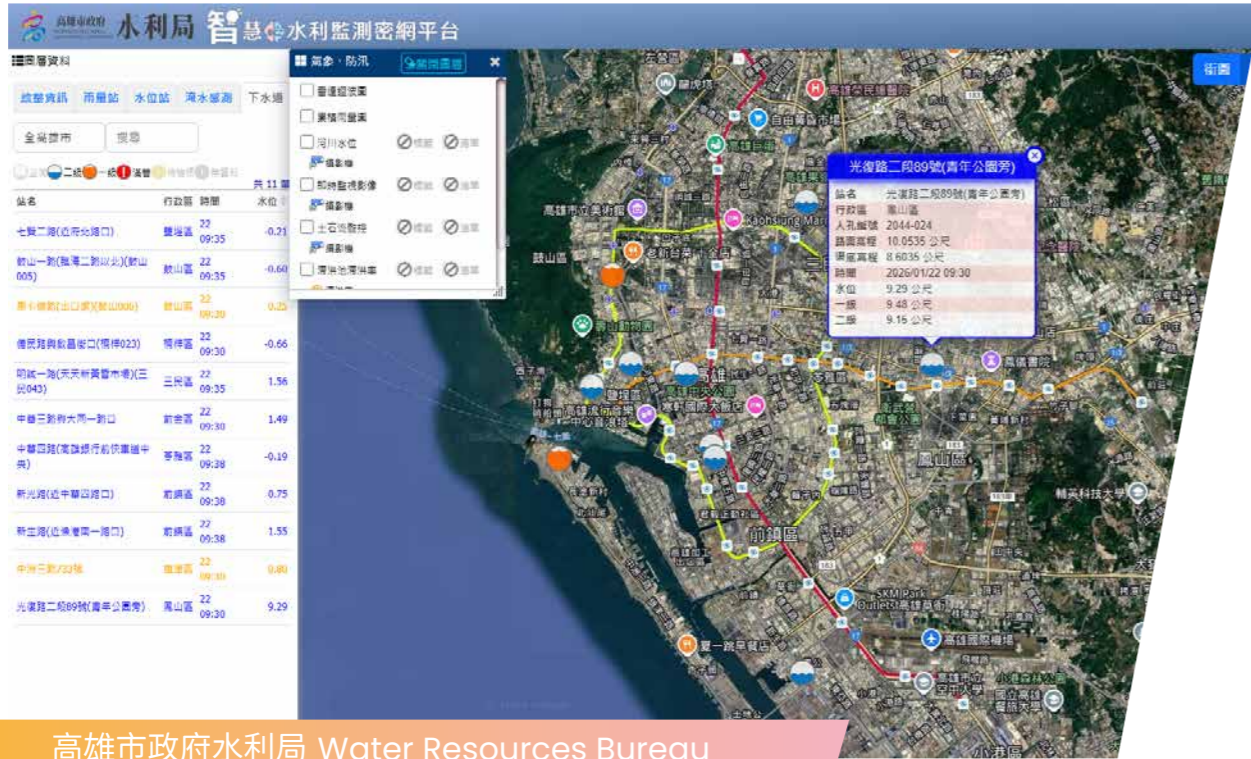
目前結合高雄榮民服務處、高雄榮民總醫院及市府衛生局、社會局、民政局等單位跨域合作，透過整合平台提供每日關懷訊息、訪視提醒、訪視打卡及紀錄產生等功能，強化社區即時關懷與服務追蹤，並作為未來擴大服務獨居長者之基礎。Partnering with Veterans Affairs, Health, Social, and Civil Affairs bureaus, the platform automates daily wellness checks, visit reminders, and GPS check-ins. This real-time tracking strengthens community bonds and provides a scalable foundation for expanding elderly care services citywide.

出院後照顧無縫銜接 Seamless Post-Discharge Transition

以個案為中心、簡化長照 A 個管紀錄作業流程為核心，將高雄榮民總醫院出院準備與長照系統無縫串接，建構醫院、長照、專業復能及生活照顧等跨專業團隊的協作平台，促進照護資訊即時傳遞與共享，並串聯與病人、家屬溝通管道，建立不中斷的照護網絡，提升出院後照顧銜接效率。We put the patient at the center. By bridging hospital discharge planning directly with Long-Term Care (LTC) systems, Life Concerto links hospitals, specialized rehabilitation, and daily caregivers. This creates a real-time information highway between professionals and families, ensuring care never stops when a patient leaves the hospital.

減輕第一線行政人員負擔 Empowering Frontline Staff

在共用平台上記錄下照護資訊與流程，所有照護資訊能一目了然，進行溝通，減少許多重複無效的工作，讓人力能更專注於服務與風險處置上。Our unified dashboard eliminates redundant paperwork and "information silos." By providing a clear, synchronized view of every care journey, we reduce administrative burdens, allowing staff to focus on high-touch service and risk management.



高雄市政府水利局 Water Resources Bureau

智慧水利監測密網平台 Smart Hydroinformation Monitoring Network Platform

智慧化水利工程降低水患風險 Empowering Infrastructure to Mitigate Flood Risk

應對極端氣候、提升防災應變效率，高雄市透過監測大數據水位、智慧淹水模式分析及水利設施運作資訊，建構高智慧的水管理與防汛體系。系統能即時掌握積淹水位置與規模，做為資源調度與應變決策依據；同時，透過完善的監測與預警機制，輔助操作水利設施，提升整體排水管控效率，降低水患發生的風險。

To combat extreme climate, Kaohsiung has built a high-intelligence flood prevention system. By integrating big data on water levels, AI flood modeling, and real-time facility status, the city can instantly pinpoint flood locations to optimize resource deployment. This proactive monitoring ensures seamless drainage control, significantly reducing the risk of water hazards.



2024 亞太資訊科技應用獎 | 傑出新興技術解決方案獎
ASOCIO DX Award | Emerging Digital Solution & Ecosystem Award

從看得到到能決策 From Visibility to Smarter Decision-Making

淹水狀況透過即時監測及模式分析的可視化和可量化，有效強化了調度與應變決策品質，並以 IoT 感測即時回報取代大量人工查證，顯著提升短延時淹水事件的掌握時間與應變流程。系統同步提供市民查詢即時水情的介面，強化汛期間自我防災能力。

We transform raw data into actionable insights. Through IoT sensors, we have replaced manual inspections with real-time reporting, drastically cutting response times for flash floods. Visualized Analytics enhance decision quality through quantified flood modeling. Real-time water status interfaces allow citizens to stay informed and prepared.

整合地理水文及水利工程 Integrating Hydrology with Engineering

深入了解雨水下水道水位與地面淹水資訊，用於釐清強降雨期間積淹水成因，並驗證工程效益。同時，在結合累積雨水下水道監測、水理模式運算，以及預警應用經驗等，能形成可複製的防災整合模式，降低極端降雨造成的風險。

By analyzing the relationship between stormwater sewer level and surface flooding, we accurately identify the root causes of accumulation. This allows us to validate engineering effectiveness and create a scalable, reproducible disaster prevention model tailored for extreme rainfall scenarios.

建構完整水文監測網絡 A Comprehensive Hydrological Monitoring Grid

雨水下水道水位計有 250 處，92% 位於易淹水區或熱點，43% 於管徑或坡度變化處，加上水位站 98 處與路面淹水感測器 135 處，讓短延時淹水事件從人工查證的 2-3 小時，大幅縮短到 30-60 分鐘內即可顯示。

With 250 stormwater sewer level gauges (covering 92% of high-risk hotspots), 98 water level stations, and 135 road surface flood sensors, our extensive network provides total situational awareness, reducing the time to detect flash floods from 3 hours down to just 30-60 minutes.





高雄市政府水利局 Water Resources Bureau

水資源中心智慧科技應用 Smart Technology Applications in a Water Resource Recovery Center

智慧監測為再生水供應開源節流 Smart Monitoring for Optimized Supply

考量鋼鐵產業（如中鋼）與高科技產業（如台積電）用水需求，量身打造智慧型水資源中心，導入網際網路智慧監測網，水質、水量與關鍵營運指標全面數據化、平台化，管理端可即時掌握運轉狀態，並進行趨勢分析與異常預警，強化供水穩定性與應變效率。Tailored for the steel (e.g., CSC) and high-tech (e.g., TSMC) sectors, our Smart Water Centers utilize IoT networks to digitize water quality, flow, and KPIs. This centralized platform enables real-time tracking, trend analysis, and early warnings, significantly boosting water supply stability and response speed.

打破傳統框架，導入智慧化監控 Intelligent Oversight Beyond Tradition

跳脫過往定點監看的傳統模式，導入智慧監測網，將廠內水質、水量等即時數據全面整合至網頁化平台。支援手機隨時查閱及趨勢分析與自動告警功能，以數位化管理大幅節省人力操作時間，進而提升管理效率與營運透明度。

Replacing traditional stationary monitoring, our Smart Monitoring Network integrates real-time data into a mobile-friendly web platform. Featuring automated alerts and trend analysis, this digital shift minimizes manual labor while maximizing operational transparency and efficiency.

節能減碳，提升能源使用效率 Energy Saving & Efficiency Optimization

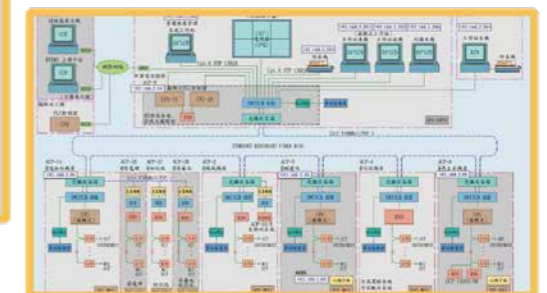
為將節能減碳落實於日常作業，透過設備能效監控，操作參數調整、導入高效率設備與能源回收，如小水力發電設施，充分利用放流水位能差，回收相關能源創造可持續再生能源，共同朝向淨零目標邁進。

To integrate decarbonization into daily operations, we monitor equipment efficiency, optimize parameters, and implement high-efficiency hardware. By deploying energy recovery systems—such as micro-hydro power that harnesses the potential energy of discharged water—we generate sustainable renewable energy and accelerate our progress toward Net-Zero goals.

具體化實現環境共好目標 Realizing Environmental Synergy

供水穩定、數據透明、低碳營運，三位一體的治理模式，水資源中心不僅支撐長期用水韌性，更以永續作為競爭力，協助企業降低風險、提升 ESG 表現，成為產業與城市共好的關鍵設施。

Our "Trinity" model—stable supply, transparent data, and low-carbon operations—secures urban water resilience. By turning sustainability into a competitive advantage, these smart water centers help enterprises mitigate risks and enhance ESG performance, fostering shared prosperity between industry and the city.





高雄市政府民政局 Civil Affairs Bureau

M 里幹事平台

M-Officer Platform: Smart Neighborhood Hub

不受時空限制提升基層服務能量

Empowering Grassroots Services Anytime, Anywhere

高雄市政的推動與區里關係密切，區公所與里辦公處肩負政策落實與市民端的服務，是行政功能延伸和政策溝通窗口。高雄市將原市政線上 e 指通及區政資訊系統兩者的功能整合起來，透過 M 里幹事平台，提供區公所人員、里長與里幹事一個精簡靈活運作的線上平台，使用手機或平板電腦，就可運作執行里政業務。

District and neighborhood offices are the vital link between the city government and its citizens. By merging the "District Information System" and "Neighborhood E-Link," Kaohsiung has created the M-Officer Platform. This agile, mobile-first solution allows district staff, neighborhood chiefs, and officers to manage local affairs seamlessly via smartphones or tablets.



訊息無縫接軌的一站式管理

Seamless One-Stop Management

平台透過 API 串接跨局處資料，導入智慧治理技術，整合市府派工、社會局名冊、國土測繪圖資、公共與水資源物聯網等資料，將眾多資訊高效整合在雲端，成為真正的智慧管理平台。
The platform utilizes APIs to bridge data across bureaus, integrating city task dispatches, Social Affairs rosters, national mapping data, and IoT water resource monitoring. This cloud-based hub transforms fragmented information into a powerhouse for Smart Governance.

提高多元任務的即時決策力

Real-Time Decision Making for Diverse Tasks

涵蓋里長報修、社政關懷、智慧水利監測、地籍與地圖查詢、停水停電、道路挖掘、專案查報等多項功能，依使用者身分呈現相應的操作介面，並透過即時資料整合，快速掌握案件狀況、提升辦理效率及服務品質。
Tailored interfaces are provided based on user roles, covering everything from maintenance reporting and social care to utility outages and roadwork tracking. Real-time data integration ensures rapid case handling and superior service quality.

前瞻擴充讓功能更完善

Future-Ready Functionality

新增防災功能，並與高雄數位市民平台進行整合，提供更完整的一站式服務，加入燈塔計畫，提供 AI 智慧報修訓練資料、導入智慧報修概念驗證，協助推動並加速落實到實際場域運作。
Integrated with the Kaohsiung Digital Citizen Platform, this initiative adds disaster prevention features to provide a comprehensive one-stop service. Furthermore, as part of the Lighthouse Project, it provides training data for AI-driven maintenance and implements PoC (Proof of Concept) for smart reporting, accelerating the practical deployment of these technologies.

增加即時處理的工作效率

Proven Efficiency & Impact

手機與 PC 同步處理，免回辦公室操作
Mobile-PC Sync: Eliminate office-bound paperwork.

- 整體節省約 30% 作業時間
Time Saved: Reduced overall processing time by 30%
- 80% 里長使用平台
Used by 80% of Neighborhood Chiefs
- 約 95% 里幹事採用平台
Used by 95% of Neighborhood Officers



高雄市政府環境保護局 Environmental Protection Bureau

AI 雲端影像監控及智慧辨識系統

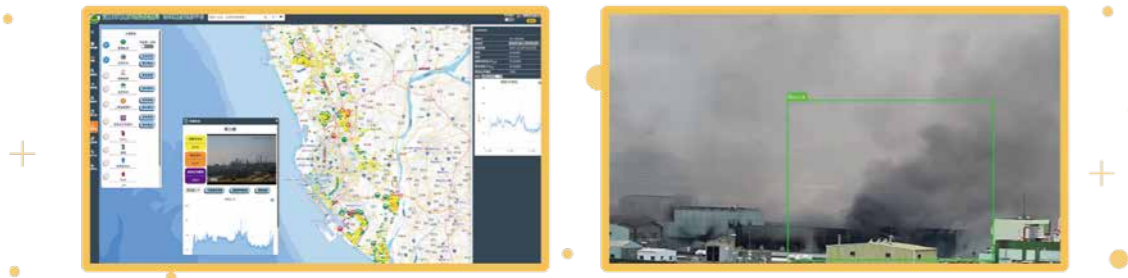
AI Cloud-Based Video Surveillance and Intelligent Environmental Recognition System

全天候偵測讓空氣污染源頭無所遁形

24/7 Detection of Air Pollution Sources

守護市民健康及生活品質，導入 AI 智慧科技與 AIoT 監控體系，結合雲端影像辨識與露天燃燒偵測系統，透過科技執法，從源頭精準鎖定污染行為並即時預警，大幅強化稽查效率與應變能力。

To protect public health and quality of life, the system integrates AI and AIoT with cloud-based vision and open-burning detection system. Through tech-enabled enforcement, it pinpoints pollution at the source and issues real-time alerts—significantly boosting inspection efficiency and response capability.



智慧感知與跨域資料整合 Smart Sensing & Cross-Domain Data Integration

多部攝影機 24 小時監控工業區固定污染源，回傳即時影像，匯入整合系統。系統結合 GIS 技術，空氣品質監測站、微型感測器、風速 / 風向監測資料，以及固定污染源許可資訊與民眾陳情案件等多元數據，可即時偵測異常排放行為。

Multiple cameras monitor certain pollution sources in industrial zones 24/7, streaming instant videos to an integrated platform. Combined with GIS, air-quality stations, micro-sensors, wind data, permit records, and public reports, the system detects abnormal emissions in real time.

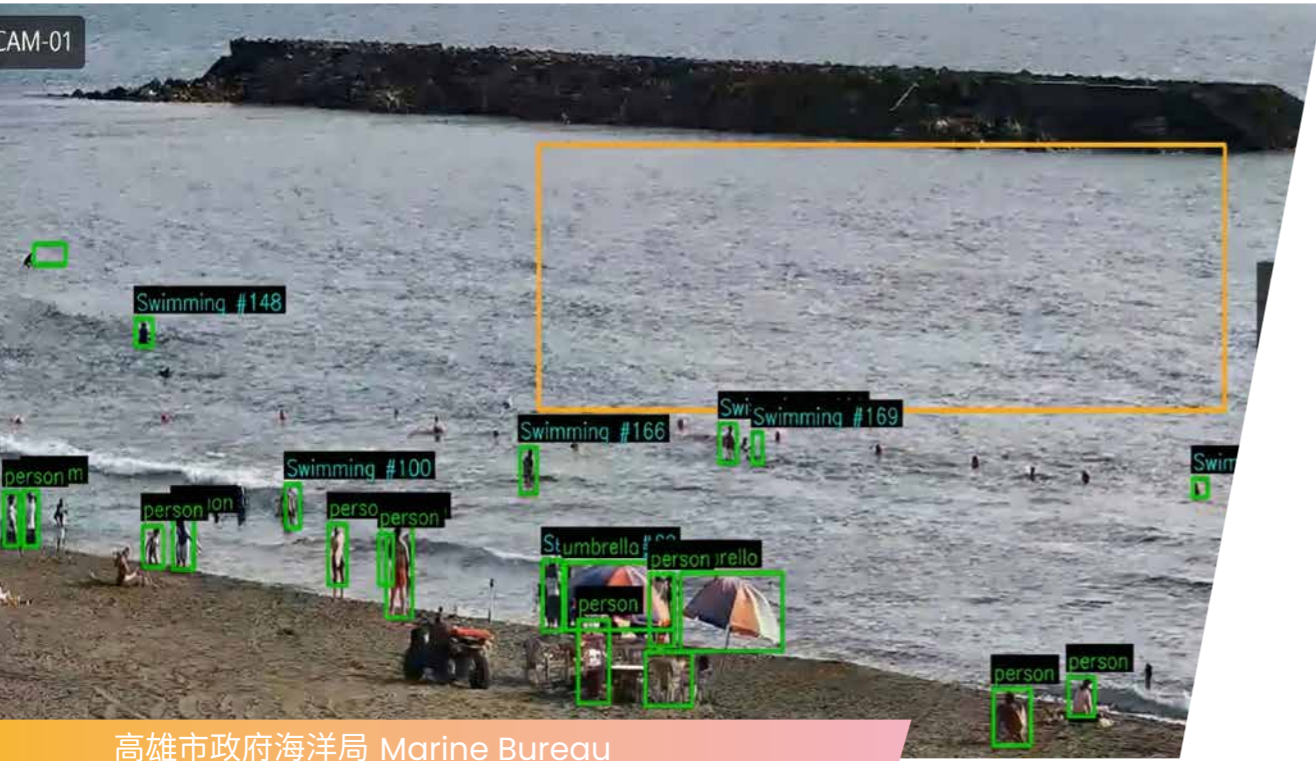
即時異常辨識與應變機制 Rapid Anomaly Detection & Response

針對重點工業區管道黑煙、燃燒塔火光、廠房逸散、火災、露天燃燒及揚塵等異常排放，系統蒐證結果可即時推播群組，通報稽查員到場處理，快速掌握污染源，同時發布下風處空氣品質預警，提醒市民留意。

The system identifies smoke, flares, fugitive emissions, fires, open burning, and dust, instantly pushing evidence to inspectors for on-site action and issuing downwind air-quality alerts to the public.

目前正逐年擴建監控版圖，已於 11 處重點場域建置 66 組雲端影像監控及智慧辨識系統，整體覆蓋率由 96.5% 提升至 99.1%，透過高密度的數位監控與精準辨識，從源頭強化空氣污染防治。

Monitoring is being expanded annually. To date, 66 cloud-based AI surveillance systems at 11 key sites have increased coverage from 96.5% to 99.1%, strengthening air pollution control at the source.



高雄市政府海洋局 Marine Bureau

智慧沙灘 AI 監測系統

Smart Beach AI Monitoring System for Maritime Public Safety

利用 AI 智慧影像提升海域公共安全

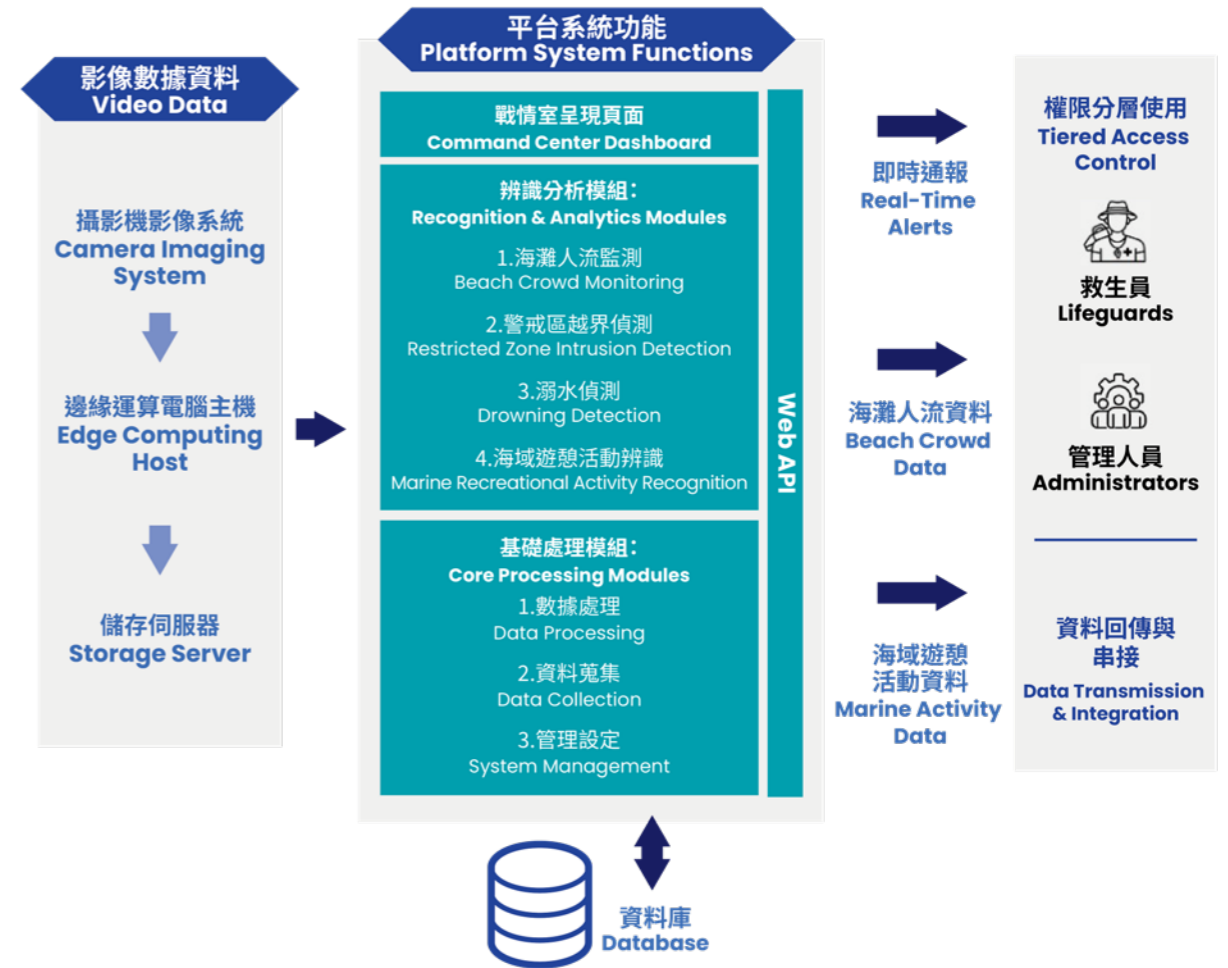
AI-Powered Video Analytics for Maritime

整合 AI 影像辨識與邊緣運算技術，透過 4K 攝影機監控，掌握海灘人流熱區與活動軌跡。系統能即時偵測越界或溺水等異常行為，發出警示，同步通報中控中心與救生員，有效縮短應變時間，提升海域救援與公共安全管理效率。

By integrating AI vision and edge computing with 4K cameras, the system monitors crowd hotspots and movement patterns. It detects anomalies such as boundary violations or drowning in real time, sends instant alerts, and notifies control centers and rescue teams—reducing response time and enhancing coastal safety.



智慧化技術架構 Smart Technology Architecture



AI 智慧監測與活動辨識

AI Smart Monitoring & Activity Recognition

AI 智慧影像與邊緣運算技術，可即時辨識海灘上各類活動，包括游泳、SUP、衝浪等，並分析人流熱區、人物位置、行為及移動軌跡。自動偵測越界、異常行為與溺水徵兆，並自動標記與錄影事件，建立完整的安全管理資料庫。

Using AI vision and edge computing, the system identifies beach activities such as swimming, SUP, and surfing, analyzes crowd hotspots and movement patterns, and detects boundary violations, abnormal behavior, and drowning risks—automatically tagging and recording events to build a comprehensive safety database.

提升海灘安全應變效率

Enhanced Beach Safety Response Efficiency

透過自動化監測與警示推播，系統可秒級反應各類安全事件，縮短通報與處置時間。自動越界告警與高風險區監控降低警戒疏失與無效巡邏工時，減少超過八成的人力查核負擔，使救生與管理人力可專注於精準救援與應變。同時事件還原與事後調閱效率提升 80% 以上，全面優化海灘安全管理。

Automated monitoring and alerts enable second-level responses, significantly reducing reporting and handling time. Boundary alerts and high-risk zone monitoring reduce patrol workload by over 80%, allowing staff to focus on precise rescue. Operations event review efficiency improves by more than 80%, optimizing overall beach safety management.



高雄市政府警察局 Police Department

AI 驅動詐騙集團人頭帳戶識別與警示 AI-Driven Mule Account Identification & Alert System

從銀行開戶源頭精準攔截詐騙集團

Intercepting Fraud at the Source: New Bank Account Creation

詐騙氾濫，政府全面性打詐，AI 技術也派上用場。高雄市運用 AI 技術，學習人頭帳戶特徵，建立大數據分析模型，識別疑似詐騙集團的人頭帳戶特徵，透過即時監控異常資金流向與交易行為，主動觸發警示機制，解決了傳統人工審核的資訊滯後問題，除可協助金融機構即時阻斷詐騙金流與洗錢風險，更強化了打擊金流犯罪的預警能量，為民眾看緊荷包，守護安全。

As fraud attempts proliferate, Kaohsiung is leveraging AI to detect "mule accounts" (accounts used for money laundering). By building a big data model trained on known fraud characteristics, the system identifies suspicious patterns in real-time. This addresses the time lag inherent in manual reviews, allowing financial institutions to block fraudulent cash flows and money laundering instantly, effectively safeguarding citizens' assets.



2025 內政黑客松 -AI 應用競賽 | 銅牌獎
Interior Hackathon AI Application Competition | Bronze Award

掌握詐騙行為模式與特徵 Identifying Fraudulent Patterns

整合過往涉及詐欺及洗錢之帳戶開戶時的登入 IP 位置、開戶人戶籍地、首次網銀登入 IP，以及歷年偵破詐騙人頭帳戶的特徵資料等，利用特徵邏輯回歸 AI，掌握潛在人頭帳戶的開戶行為模式與特徵指標，解決國內詐騙集團利用人頭帳戶進行洗錢的風控盲點問題，創造前端警示、阻斷詐騙金流與強化反洗錢作業等多重效益。

The system integrates diverse data points, including login IPs during account creation, applicant residency, and historical profiles of known mule accounts. Using Logistic Regression AI, the system masters the behavioral indicators of potential fraud. This eliminates risk management blind spots, creating multiple benefits: early warnings, blocked transactions, and reinforced anti-money laundering (AML) protocols.

偵測人頭戶開戶與防範 Proactive Detection and Prevention

一旦介接到這個 AI 應用程式介面後，金融機構於接受新開戶申請時，相關資料就會由 AI 進行即時特徵分析，並提供分析結果，讓金融機構預知新開戶有否可能在未來成為詐騙集團之人頭戶，防範詐騙於未然。

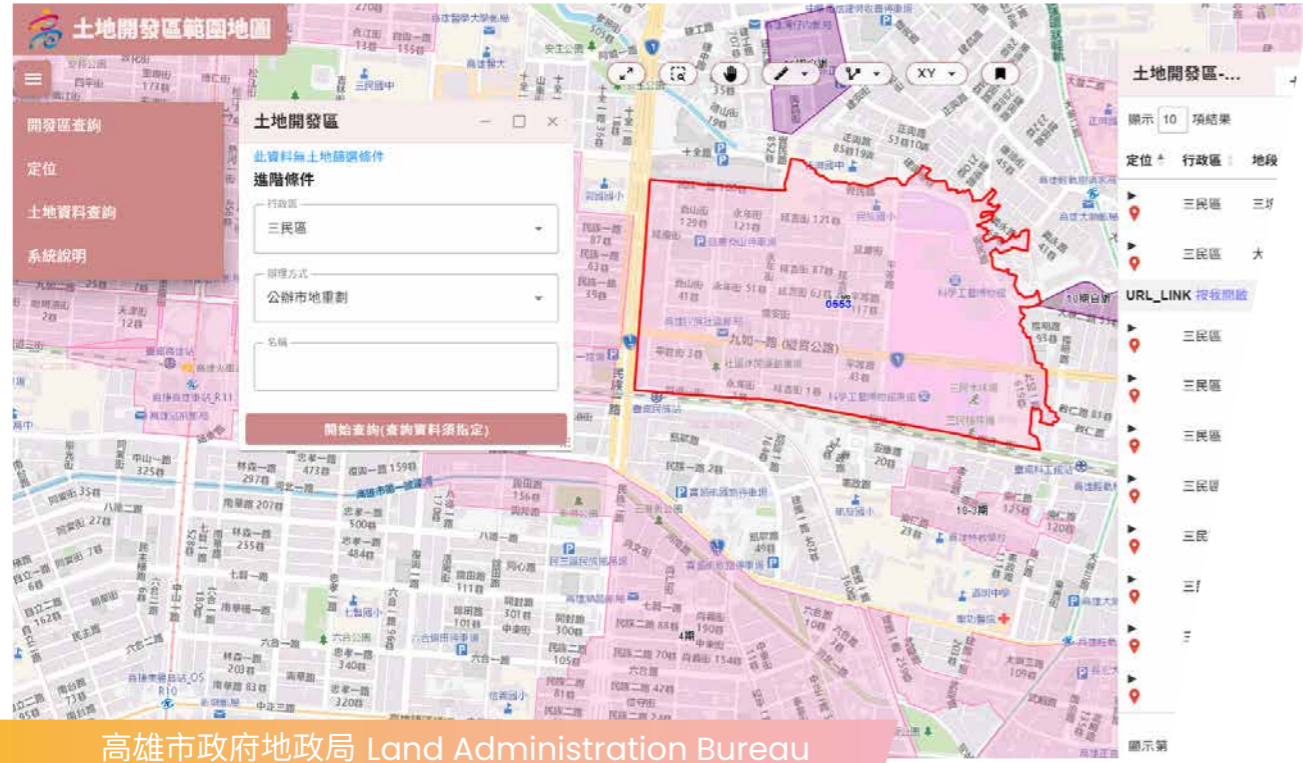
By integrating this AI via an Application Programming Interface (API), financial institutions can perform real-time analysis during the new account application process. AI provides an immediate risk score, allowing banks to predict whether a new account is likely to be used for fraud, stopping criminal activity before it starts.

高效能運作 High-Efficiency Performance

AI 在訓練後，正確率高達 85%，代表每 100 個試圖被盜辦的人頭帳戶中，系統能成功攔截下 85 個，為從源頭防堵詐騙、打擊詐騙犯罪，提供了創新的解決思維。

Following extensive training, the AI has achieved an accuracy rate of 85%. This means for every 100 attempted mule account setups, the system successfully intercepts 85. This provides an innovative and highly effective solution for blocking fraud at the source.





高雄市政府地政局 Land Administration Bureau

地理資訊共通平台 Common Geographic Information Platform (CGIP)

跨局處數據共享，建構高雄地理百科藍圖 Breaking Geographic Data Silos: A Digital Blueprint for Kaohsiung

打破資料孤島，高雄將過去散落在各局處的地圖資料，整合在一個共同平台上，這個地理資訊共通平台提供了圖資、API、鑲嵌式圖台等網路服務，包括地政、都發、交通、社福、公共設施等多元主題地圖，讓各方都能在此獲取精確的地理空間資訊，這項地理空間資料的優化服務，也為高雄城市發展提供完善的數位藍圖。

To eliminate data fragmentation, Kaohsiung has integrated scattered spatial data into a unified Common Geographic Information Platform. This central hub provides maps, APIs, and embedded map services—covering land administration, urban development, transportation, and social welfare—creating a precise digital blueprint for city development.



跨局處圖資共享與增值應用 Cross-Departmental Sharing & Value-Added Applications

提升資料即時性與流通性，同時降低應用的開發成本，並經由空間資料倉儲強化資料流通與共享。
Data Synergy: Enhances real-time data circulation and reduces development costs through a centralized spatial data warehouse.

支援市政決策與智慧轉型 Decision Support

節省重複開發成本，簡易地圖、敏捷地圖、GIS 工具箱、GIS 行動調查等工具網站，支援市府各局處，讓城市規劃、建設管理、公共安全、交通運輸等領域可以更有效率地運用資訊資源。
Provides a GIS Toolkit (including Agile Maps and Mobile Survey tools) to empower departments in urban planning, public safety, and infrastructure management.

擴展服務，跨領域應用 Expanding Smart Applications

已介接支援市府 20 個局處，提供超過 70 項資訊系統介接，使用量達 API 服務 6,680 萬次、鑲嵌式圖台 545 萬次，並逐步導入 AI、AR、3D 等先進技術，持續開發地圖相關服務，擴展智慧應用領域。
It supports 20 departments and over 70 information systems. API calls have reached 66.8 million, with 5.45 million embedded map views. Actively incorporates AI, AR, and 3D modeling to expand the boundaries of smart city services.





高雄市政府勞工局 Labor Affairs Bureau

局限空間作業通報系統 Confined Space Operation Notification System

建立數位化的風險預警機制 Building a Digital Risk Warning Network

高雄市設置局限空間作業通報系統，在進行如下水道、化糞池、水塔、儲槽等局限空間的施工作業時，要求必須進行預先通報，以保障勞工作業時的安全性，並能即時定位工作場所位置，針對實際檢視結果進行雙向互動。

Kaohsiung's Confined Space Operation Notification System mandates prior reporting for tasks in restricted environments—such as sewers, septic tanks, water towers, and storage tank. This digital framework ensures worker safety through real-time location tracking and bidirectional interaction based on field inspection results.



鼓勵業者進行自主管理 Empowering Autonomous Management

各業主可自行稽核承攬商局限空間作業，落實管制、通風、偵測、監控、救援 5 項安全步驟，藉由分級管理達到擴大監督之目的，提高精準檢查率，有效降低職業災害的風險。

Property owners can independently audit contractors' confined space operations by enforcing the 5 Key Safety Steps—Access Control, Ventilation, Gas Detection, Monitoring, and Rescue Planning. This tiered management strategy expands oversight and increases inspection precision, effectively mitigating occupational hazards.

雙軌稽核 Dual-Track Auditing

透過源頭管理，提升廠商自我監督能力，並加強局限空間作業危害及預防宣導，以及勞動檢查員遠端稽核並抽查至現場檢查，進行雙向串聯作業。

By managing risks at the source, the system enhances contractor self-supervision. It facilitates proactive hazard prevention while allowing labor inspectors to conduct remote audits combined with targeted on-site spot checks, creating a seamless safety loop.

數位職安防護網里程碑 A Milestone in Digital Occupational Safety

系統於 110 年 7 月啟用，114 年月平均通報作業數達 2,000 件，111 年至 113 年從 13,834 件增加至 17,954 件，不斷升級擴充功能，精準檢查場次從 543 件增加至 878 件。

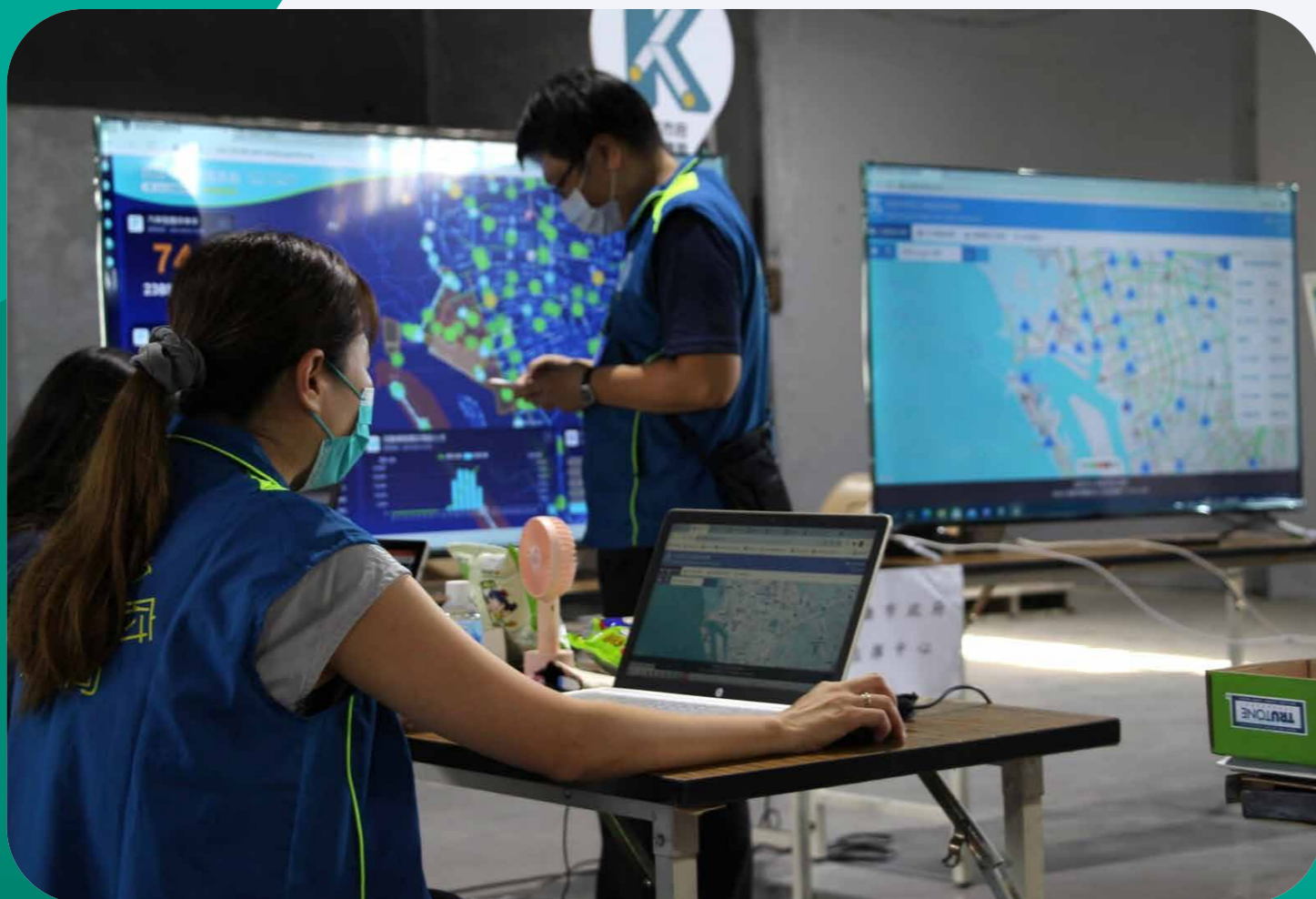
Since its launch in July 2021, the platform has seen continuous growth in participation and precision. Monthly activity reaches 2,000 notifications avg. per month in 2025. Reporting cases grow from 13,834 (2022) to 17,954 (2024). Precision on-site checks increased from 543 to 878 sessions.



2

智慧治理 市民有感

Smart Governance: Delivering Resident Well-Being



服務與便民 *Services & Convenience*

高雄正經歷一場多元跨域的數位轉型，將智慧科技導入城市治理，面對城市的疑難雜症，高雄市政府各局處積極提出對應的解決方案，將冰冷的複雜數據轉化為市民有感的服務。

透過數位孿生強化城市的宏觀規劃與決策，從基礎設施到市民服務，建構城市安全防護網，讓市民享受無縫銜接的通勤體驗，將科技帶入農業提高作物產能，鏈結雲端數據深化健康、運動與教育應用，同時建立起政府與市民之間智能化的溝通橋樑，讓市政服務更有效率，親民且便民。

智慧治理帶來的公共服務，能夠有效回應民生需求，高雄的繁榮與市民的幸福終將與智慧同行、並肩向前。

Kaohsiung is undergoing a multi-dimensional, cross-sector digital transformation. By integrating smart technology into urban governance, the Kaohsiung City Government transforms complex data into intuitive, high-impact public services.

Through Digital Twin technology, we enhance macro-level urban planning and decision-making. From reinforcing infrastructure and building safety nets to creating seamless commuting experiences, technology is the backbone of our progress. We are boosting agricultural productivity through innovation and deepening cloud-based applications in healthcare, sports, and education. By establishing an intelligent communication bridge between the government and its people, we ensure municipal services are more efficient, accessible, and user-friendly.

Smart governance effectively addresses public needs, ensuring that Kaohsiung's prosperity and the well-being of its citizens move forward, hand in hand with intelligence.



高雄市政府交通局 Transportation Bureau

高雄交通行動服務 (MaaS) 計畫 Kaohsiung Mobility as a Service (MaaS): MeNGo

整合多元交通載具高雄走透透 Seamless Integration for Effortless Travel

以 MeNGo 平台為核心，高雄整合捷運、公車、輕軌、渡輪、公共自行車及臺鐵等多元運具，以優惠的票價提高民眾使用交通服務的意願，並透過專屬 APP 與定期票、觀光時數套票，以最低成本享受無縫轉乘，此一一站式的交通解決方案提供一個便捷、安全、省錢又環保的通勤方式。

At the core of Kaohsiung's integrated transit system is MeNGo, a unified platform that integrates the MRT, Light Rail, buses, ferries, public bikes, and Taiwan Railways. Through its dedicated app and tiered subscription passes, MeNGo offers a one-stop solution for a commute that is fast, safe, cost-effective, and eco-friendly.



2023 GO SMART 競賽 | 優勝
Go Smart Award | Winner

天下雜誌城市治理卓越獎 | 環境保護組優選
CommonWealth Magazine City Governance Awards | Environmental Protection Category, Honorable Mention

eASIA Award 永續與循環經濟 | 金獎
eASIA Award Sustainability & Circular Economy | Gold Award

2022 APEC 「能源智慧社區最佳案例」 智慧運輸 | 銀牌
APEC ESCI Smart Transport | Silver Award

全球資訊科技卓越獎 | 傑出永續發展首獎
WITSA ICT Excellence Award | Sustainable Growth Award/Circular Economy Award (Public Sector)

有效提高公共運輸使用率 Boosting Public Transit Usage

透過票證與平台的便民服務，推動民眾從自用運具轉向共享交通服務，有效提升公共運輸使用率，並擴大減碳效益，此創新模式為全臺首例區域整合型 MaaS 示範。

By offering seamless transfers at competitive rates, MeNGo incentivizes citizens to switch from private vehicles to shared mobility. As Taiwan's first regional integrated MaaS model, it has successfully boosted public transport ridership and significantly expanded carbon reduction efforts.

串聯南臺灣三大縣市生活圈 Connecting the Southern Taiwan Mega-City

399 元的都市內月票與跨城際南高屏的 999 元月票，整合臺南、屏東區域公共運輸服務、並納入臺鐵運輸，串聯南臺灣三大縣市生活圈交通服務，並持續擴大使用範圍，促進南臺灣生活圈的緊密連結與永續發展。

MeNGo bridges the Tainan-Kaohsiung-Pingtung corridor with affordable regional passes. NT\$399 Urban Monthly Pass provides unlimited travel within the city while NT\$999 Intercity Pass seamlessly enables transits across three counties, including Taiwan Railways. This cross-border integration fosters a more connected and sustainable Southern Taiwan lifestyle.

暢遊高雄智慧交通便利多多 Proven Growth & Convenience

實施通勤月票 399 上線之後，使用人數從原本 1 萬多人成長至 10 萬多人，將近 9 倍，同時帶動高雄市整體公共運輸成長 44%，另同步推出季票與時數票，不管是高雄市民或是觀光旅客，皆能享受 MaaS 帶來的便利。

The launch of the TPASS 399 monthly pass has triggered an explosion in transit adoption. Monthly subscribers surged from 10,000 to over 100,000 (a 9x increase). At the same time, boosted total public transit ridership by 44%. Seasonal and hourly passes cater to both daily commuters and tourists, ensuring smart convenience for all.





高雄市政府交通局 Transportation Bureau

高雄 iBus+ 公車即時動態資訊 Kaohsiung iBus+: Real-Time Bus Information

iBus+ App 營造友善可親的大眾運輸交通體驗 Building a User-Friendly Public Transit Experience

高雄市從高齡者搭乘公車的需求出發，搭建起市民搭乘公車的服務窗口，包括整合到站時間點、規劃路線、導引視障者抵達站牌等多項功能，並串聯捷運、輕軌等多元載具，讓每位市民都能輕鬆便利體驗智慧化的交通運輸。

Kaohsiung's transit philosophy starts with accessibility. By prioritizing the needs of senior citizens and the visually impaired, the iBus+ App serves as a comprehensive service window. It integrates real-time arrivals, route planning, and guided navigation for the visually impaired, seamlessly connecting the MRT and Light Rail for an intelligent, city-wide travel experience.



**2025 日本優良設計獎
Good Design Award**

**iF 設計獎
iF Design Award**

**UX 設計獎 | 入圍
UX Design Awards | Nominee**

**2024 紅點設計大獎
Red Dot Winner**

**GDA | 社會影響與平等獎
GDA | Social Impact and Equality Award**

數位包容跨年齡使用者 Digital Inclusion for All Ages

高雄的老年人口使用公車比例高，App 設計上顧及高齡者使用的便利，採取可用性設計，包括語音及視覺輔助，並新增簡易版模式，常用功能一目了然，降低取得交通資訊門檻，加強服務的普及性。

With a high proportion of elderly bus riders in Kaohsiung, iBus+ emphasizes Usability Design with integrated voice and visual aids to support diverse needs. A streamlined interface with high-contrast, essential functions, lowering the barrier to entry for seniors and ensuring universal access to transit data.

智慧便民的多項功能 Smart & Convenient Features

民眾可在 App 或網站預約指定路線與站牌，預約資訊將由伺服器同步至車上設備，當車輛接近預約站點時，能自動提醒駕駛停靠。同時，還有規劃公車路線動態、到站提醒、常用站牌個人化及預約接駁等便民功能，降低錯過班車的機率與不確定感，大大提升乘車便利性。

The platform empowers passengers with tools that eliminate the uncertainty of commuting. Users can pre-book specific stops via the app. The system syncs this data to the onboard device, automatically alerting the driver as the vehicle approaches the reserved station. Personalized Alerts include real-time route dynamics, arrival reminders, and "Favorite Stops" settings, significantly reducing the chance of missing a bus.

走向個人化智慧服務 Hyper-Personalized AI Services

導入 AI 客服後，可用自然語言快速取得資訊，依個人搭乘習慣與即時路況，提供個人化乘車建議、產生最佳路徑與運具選擇，提升大眾運輸更為便利的交通體驗。

With the integration of AI Customer Service, users can get instant answers using natural language. The system analyzes individual riding habits and real-time traffic conditions to provide personalized transit suggestions, generating the optimal path and vehicle choice for every journey.

人手一機，應用普及化 Widespread Adoption



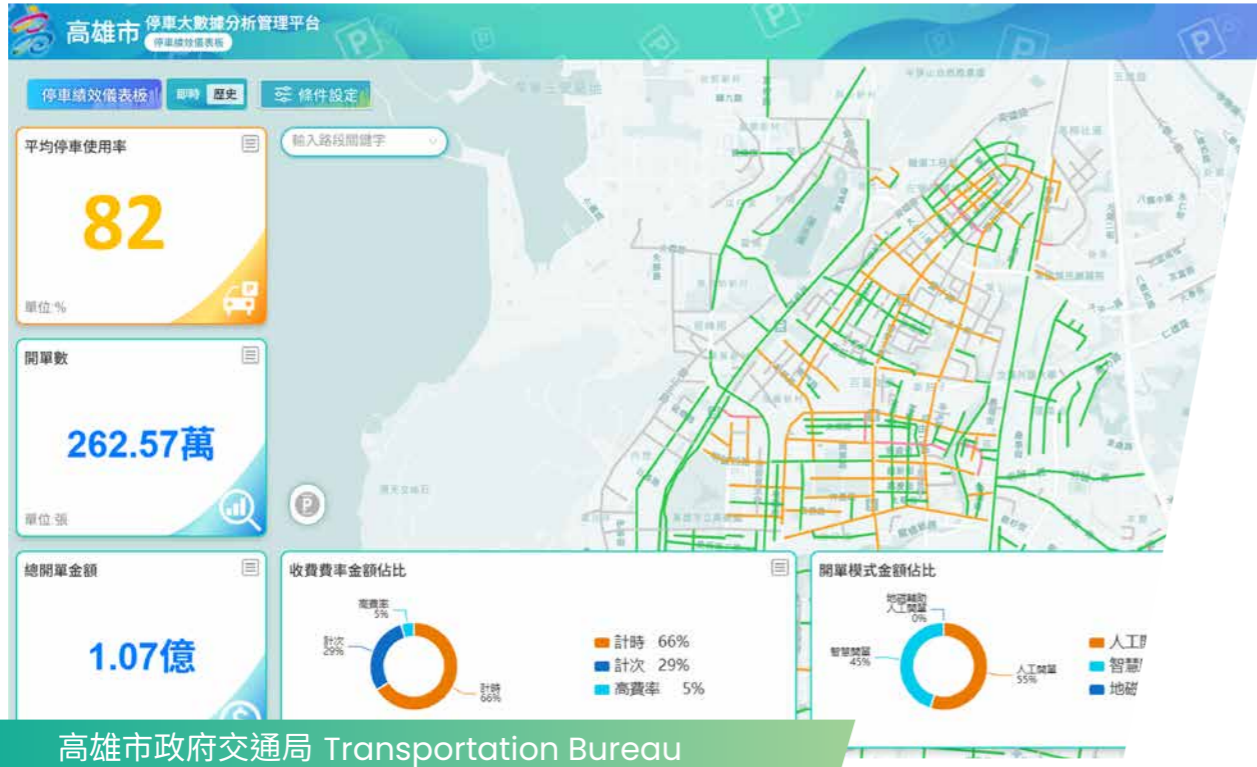
iBus+ 應用上線後服務人數增加

Since the launch of the enhanced iBus+ features, service reach has grown exponentially.

App 下載量約 15 萬
App Downloads: Approximately 150K

每月使用次數約 400 萬次
Monthly Usage: Reaching 4M





智慧停車系統 Intelligent Parking System

科技帶來省時省力的城市停車體驗 Smart Tech for Efficient and Effortless Urban Experience

高雄積極推動智慧停車轉型，實現精準自動計費與即時車位導引，有效減少繞行車流，解決找停車位的困擾，並結合線上平台繳費功能，簡化繳費流程，打造更聰明、便利的城市停車體驗。

Kaohsiung is leading the charge in smart parking transformation, implementing automated precision billing and real-time stall navigation. By reducing traffic circling and the frustration of searching for spots, and integrating seamless online payments, we are creating a smarter, more convenient parking experience for every driver.



即時格位資訊揭露與決策支援 Real-Time Availability & Decision Support

利用地磁、影像辨識、雷達等感測技術，判斷停車位是否被占用，透過網站公布，幫助用路人快速尋找停車位，並蒐集大量停車數據，供機關觀察、檢討及進行資料分析與決策規劃。

Using advanced sensing technologies—including geomagnetic sensors, image recognition, and radar—the system instantly detects stall occupancy. This data is published online to help drivers find spots fast, while providing the city with a robust big data foundation for long-term traffic planning and policy optimization.

自動化停車費計算與多元繳費服務 Automated Billing & Paperless Payments

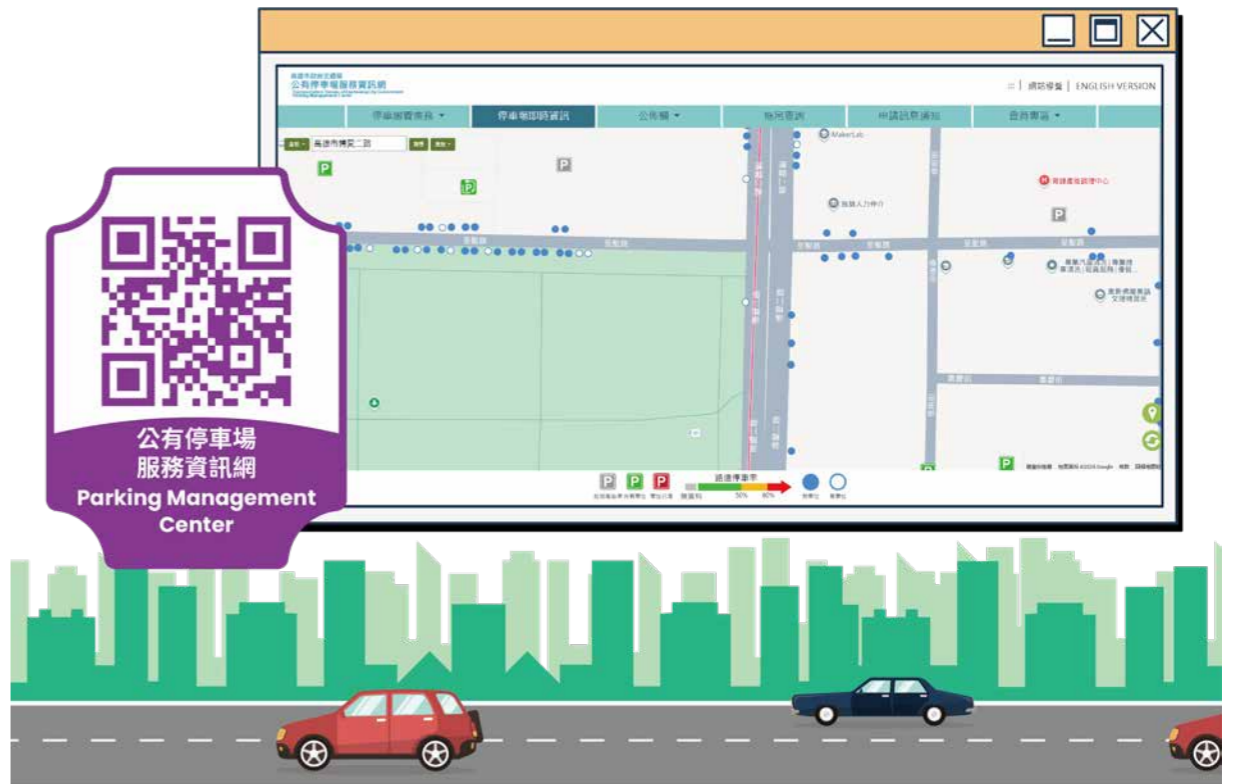
路邊停車格位周邊建置自動感測、攝影機、車牌辨識系統等裝置，系統自動化記錄停放車輛之車牌號碼、停入與離開停車格位時間，採用無紙化計算停車費，並拍攝影像存證，提供便利商店、行動支付及遠通電收、電信、金融機構代扣等多元繳費管道。

Roadside spaces are equipped with automated sensors and License Plate Recognition (LPR) cameras that record entry and exit times with photographic evidence. This 100% paperless system supports a wide array of convenient payment channels, including mobile wallets, convenience stores, and automatic bank/telecom deductions.

高效管理守護低碳環境 Efficient Management for a Low-Carbon City

系統成功優化人力配置，並使停車位周轉率翻倍成長 100%，每年大幅減少 1,740 萬張停車單紙本單據，實踐環境永續，成為城市治理的典範，為市民與政府打造更便利、低碳的停車生態系。

The system has redefined urban parking efficiency while promoting environmental sustainability. It doubles parking turnover rate (100% growth); Optimizes manpower allocation through automation and eliminates 17.4 million paper receipts annually, all serving as a benchmark for green city governance.





高雄市政府衛生局 Department of Health

高雄健康共照雲 Kaohsiung Healthcare 4.0: The Smart Health Cloud

高雄人的雲端健康管家 Your AI Health Steward

透過 LINE 官方帳號，結合雲端技術與 AI，健康資訊盡在其中。高雄健康共照雲整合生理量測與 AI 體健設備體驗，導入智能客服功能，執行遠距照護、癌篩作業、醫療保健預約及自我健康管理等服務，還有 24 小時不間斷的 AI 心靈會客室陪伴服務，全面提升市民的健康管理與服務品質。

Integrated into LINE, the Smart Health Cloud leverages AI to put wellness at your fingertips. The platform syncs physiological data with AI fitness equipment and an Intelligent Helpdesk to provide remote care, cancer screenings, and appointment booking. Featuring a 24/7 AI Mental Health Lounge, it offers round-the-clock support, making professional health management accessible to every citizen anytime, anywhere.



2023 ASOCIO 亞太資通訊科技應用獎 | 科技健康獎項

ASOCIO | HealthTech Award

WITSA 全球資通訊科技卓越獎 | 公部門傑出醫療應用佳作獎

WITSA Global ICT Excellence Award | Innovative eHealth Solutions Award (Public Sector)



智齡健康管家全方位守護 AI-Powered "Age-Smart" Health Stewardship

AI 智能客服提供健康衛教、資源轉介與健康管理資訊，並於銀髮健身俱樂部導入物聯網體健設備與 AI 運動指導，由系統自動提供個人化體適能報告與健康建議，協助市民掌握自身健康資訊，增加銀髮族的健康管理。

Our AI Smart Concierge provides health education, resource referrals, and management insights. At Silver Fitness Clubs, we deploy IoT-enabled fitness equipment and AI coaching to generate personalized physical reports. This empowers seniors to take charge of their wellness through data-driven health advice.

AI 心靈會客室即時關懷心理狀態 AI Mental Health Lounge: Real-Time Emotional Support

運用生成式 AI 技術，回應市民情緒困擾無以求助的需求。設置心靈聊癒、健康量表等功能，並內建 BSRS-5 心情溫度計，使用者可自我檢測情緒狀態，採圖像化呈現心靈地圖，串接心理諮詢預約服務，提升心理照護的可近性與實用性。

Powered by Generative AI, this platform addresses the unmet need for immediate emotional support. It features self-assessment tools for mental wellness, including the BSRS-5 (Brief Symptom Rating Scale), allowing users to monitor their mental state. With visualized "Mind Maps" and seamless integration for psychological counseling bookings, the service significantly enhances the accessibility and practicality of mental healthcare.

讓民眾運用多元化的健康資訊 Diverse Healthcare Modules for Every Need

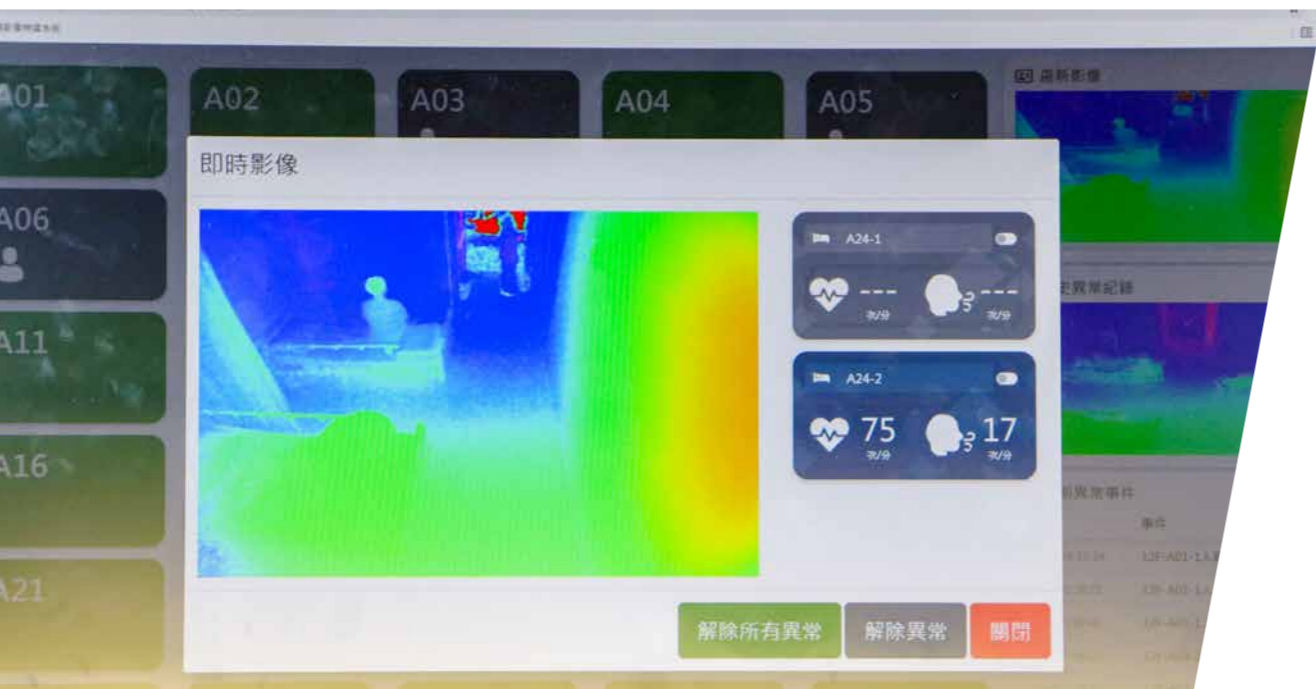
70 種以上的醫療設備，應用於 50 種以上照護情境如失智共照、自殺防治、癌症篩檢、戒菸等服務，多達 20 種以上健康管理模組，市民滿意度達 90%。並串聯高雄健康平台、照護據點、醫療設備之 AI 照護引擎，每月可產出 18 萬筆數據，提供民眾更完善的個人健康資訊。

Our platform supports over 70 types of medical devices across 50+ care scenarios, including dementia co-care, suicide prevention, cancer screening, and smoking cessation. Over 20 health management modules are available, and 180,000 data points generated monthly via our AI care engine. The citizen satisfaction rate has reached 90%.

從診間到社區數據共享共照 Seamless Data Sharing from Clinic to Community

橫向串聯醫療院所、診所、社區達 250 診間，另結合 85 處智慧健康照護站設置平台，已服務 17.9 萬市民，使用次數達 100 萬次，利用大數據管理，讓市民在家門口就能享有與醫療端同步的精準照護服務，落實健康城市的數位轉型目標。

We have bridged the data gap between 250 clinics and 85 Smart Health Care Stations throughout the community, serving 179,000 citizens with over 1 million service interactions. Utilizing Big Data to provide precision care at the citizen's doorstep helps realize digital transformation of a truly Healthy City.



高雄市政府衛生局 Department of Health
高雄市長凱旋醫院 Kaohsiung Municipal Kai-Syuan Psychiatric Hospital

iSAFE 防跌保命新神器

iSAFE: The Next-Gen Fall Prevention Solution

去識別化智慧影像防止意外傷害

Anonymized AI Imaging to Prevent Accidental Injuries

臺灣精神科醫院最常見的病人意外事件，主要為跌倒和受傷，改善此一問題最有效的方法是採取影像監控，但須兼顧照護品質與隱私保障。高雄市長凱旋醫院發展了智能創新醫療服務 iSAFE，以去識別化方式偵測，輔助長照服務及防範長輩跌倒事件，在意外尚未發生前，系統就能預測警示，縮短救援時間，即時降低傷害，這對於促進國內長照服務之安全，有極大助益。

Falls and injuries are the most common patient safety incidents in psychiatric hospitals. While video monitoring is the most effective prevention, it often conflicts with patient privacy. Kaohsiung Municipal Kai-Syuan Psychiatric Hospital has developed iSAFE, an innovative medical service that uses anonymized detection to assist long-term care and prevent senior falls. By predicting risks and alerting staff before accidents occur, iSAFE slashes rescue times and mitigates injuries, significantly enhancing safety standards in domestic long-term care.

生理偵測雷達設置與即時警示機制

Vital Sensing Radar & Real-Time Alerts

在病床上方加裝生理偵測雷達設備，當個案出現離床意圖或異常動作時，系統即刻啟動警示機制。每位照護人員均配有行動載具，當個案起身或有潛在風險行為發生時，系統將即時推播通知，以利人員迅速到場處置，降低意外發生風險。

By installing physiological detection radar above patient beds, the system identifies "intent to leave bed" or abnormal movements. Every caregiver is equipped with a mobile device that receives instant push notifications the moment potential risk behavior is detected, allowing for immediate intervention.

去識別化保障隱私的預測與通報系統

Privacy-First Prediction & Reporting

在護理之家使用 iSAFE，各房間建置影像偵測設備，並為顧及病人隱私將之去識別化，影像透過深度學習技術分析個案動態行為，於跌倒事件發生前即進行風險預測並發出警示，提供即時且有效的預測通報，強化跌倒預防與照護安全。

iSAFE utilizes in-room imaging sensors paired with de-identification technology to safeguard patient privacy. Using Deep Learning to analyze behavioral dynamics, the system predicts fall risks and issues warnings before they happen. This proactive reporting provides a robust safety net that reinforces fall prevention and care security.

縮短救援時間且降低醫療照護成本

Faster Rescue & Reduced Care Costs

iSAFE 大大縮短了病人跌倒後等待救援時間，據估計，iSAFE 可在病人跌倒後，最長等待救援時間從 1 小時（此為醫護人員查房間隔時間）縮短至 10 分鐘（此為抵達距離最遠的病房時間），等同縮短 50 分鐘。透過 iSAFE 輔助照護，明顯降低長輩跌倒發生機率，也減少後續照護醫療費用。

iSAFE drastically reduces the critical wait time for assistance after a fall. Shortens the maximum rescue window from 1 hour (standard ward-round interval) to under 10 minutes (time to reach the furthest room)—a 50-minute reduction. By significantly lowering fall rates, the system reduces subsequent medical expenses and long-term care burdens.





高雄市政府衛生局 Department of Health
 高雄市立凱旋醫院 Kaohsiung Municipal Kai-Syuan Psychiatric Hospital

藥品輔助傳送機器人 iWalker-Medication Delivery Robot

機器人確保病人領藥打針不漏接 Ensuring Seamless Treatment from Pharmacy to Injection

門診常見看診不領藥或領藥不打針就離開醫院的現象，導致治療中斷或療效受限的情形，為提升醫療流程完整性，醫院在藥品調劑過程中，導入藥物輔助機器人及超寬頻感測技術，從藥師給藥時便提供智能輔助，並於施打地點建置記錄系統，即時掌握注射訊息，以加強對病人治療管理的效能。

To prevent patients from missing doses or skipping injections after their consultation, we've introduced the iWalker assistant. By integrating Ultra-Wideband (UWB) sensing and smart tracking, the system monitors the entire process—from medication dispensing to the final injection—ensuring treatment integrity and optimizing patient outcomes.



2024 第 25 屆國家醫療品質獎 | 「主題類 - 醫學中心、區域醫院組」佳作
 NHQA | Merit Award in the Thematic Category for Medical Centers and Regional Hospitals Group

AI 智能醫療機器人陪伴引導 AI-Powered Patient Companion

藥品輔助傳送機器人員追蹤與引導功能，可陪伴病人從診間至藥局和注射站，確保完成領藥與注射流程，提升就醫便利性與流程完整性。

The iWalker does more than deliver; it tracks and guides. It accompanies patients from the consultation room to the pharmacy and onward to the injection station, ensuring every step of the medical process is completed with ease and precision.

藥品綁定與引導流程 Smart Binding & Guided Workflow

藥師將藥品綁定標籤後放入智慧藥盒，置於機器人內。機器人依不同注射時段帶領病人前往治療室完成針劑治療，確保用藥正確，提升治療依從性。

Our pharmacists secure medications in IoT-enabled smart boxes tagged for specific patients. The iWalker then guides the patient to the treatment room at the scheduled time, ensuring the right medication reaches the right person, significantly boosting treatment compliance.

夜間急診藥品運送 Nighttime ER Logistics

藥品輔助傳送機器人可於夜間協助工作人員將藥品安全運送至急診，提供臨時急需藥品的病人使用，降低急診人力負擔，縮短病人等候時間，並提升急診藥品調配效率。

During critical night shifts, iWalker takes over the heavy lifting. It securely transports urgent medications to the Emergency Room, reducing the burden on frontline staff, cutting patient wait times, and streamlining ER pharmacy efficiency.

核心功能說明 Core Features



全密閉防護空間
High-Security Enclosure

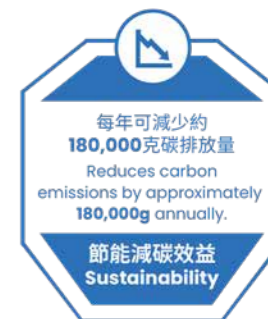


環境偵測與自動避開障礙物
Smart Navigation



身份辨識解讀
Secure Identity Verification

成效與效益 (2025/06-10月) Impact & Key Benefits (June–Oct. 2025)





高雄市政府衛生局 Department of Health
高雄市長小港醫院 Kaohsiung Municipal Siaogang Hospital

全方位智慧化復康巴士病友門診就醫流程

Comprehensive Smart Rehab Bus Service for Streamlined Outpatient Flow

打造便民快速通關的就醫流程

Creating a "Fast-Track" Healthcare Experience

考量到身心障礙者因行動不便，無論是乘車或就醫所需時間均高於一般民眾，高雄市長小港醫院推出全國首創的醫療快速通關服務，提高復康巴士服務效益。透過檢視就醫動線與等候流程，整合跨團隊資源，建構完善的就醫作業流程，縮短等候巴士的時間，並提升復康巴士周轉率與車輛使用效率。

Recognizing that patients with disabilities face longer transit and hospital wait times, Kaohsiung Municipal Siaogang Hospital has launched a nation-first Medical Fast-Track service. By optimizing patient flow and integrating cross-functional resources, the hospital has built an end-to-end system that minimizes bus wait times and maximizes vehicle turnover and efficiency.



盤點就醫流程完成快速通關服務

Optimized Flow & Frictionless Access

小港醫院 110 年啟動復康巴士快速通關服務，期間陸續出現照護者口頭投訴及醫師反映診療受干擾等情形，院方因而啟動專案進行改善，重新盤點流程並整合門診照護團隊，在 111 年更新完整的復康巴士就醫作業流程，達成縮短等候、提升周轉、零延誤等目標。

Initiated in 2021 and refined through 2022 based on real-world feedback, the project reorganized the outpatient care team and restructured clinical logistics. The result is a robust workflow that achieves shorter waits, higher turnover, and zero delays.

跨機關與跨流程的整合

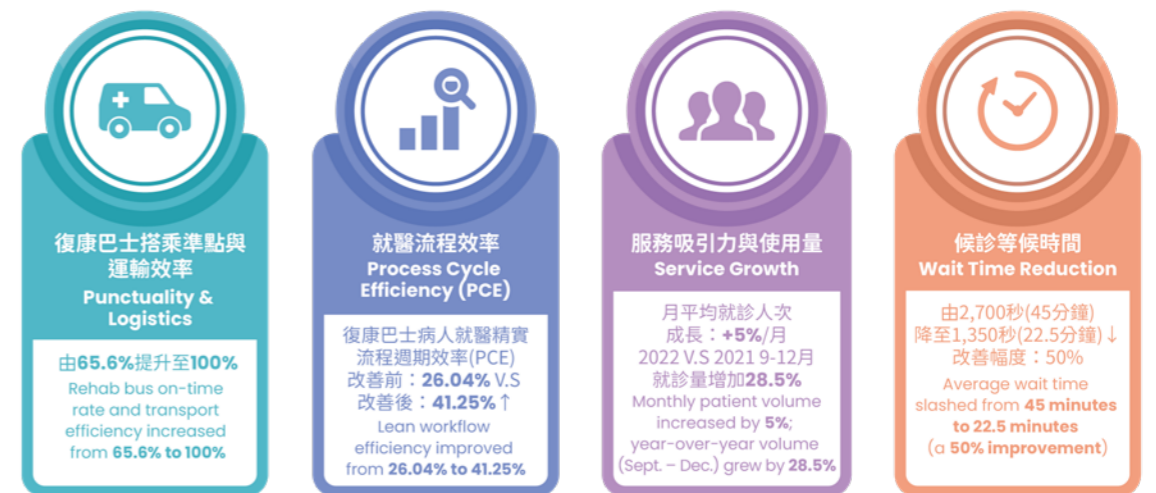
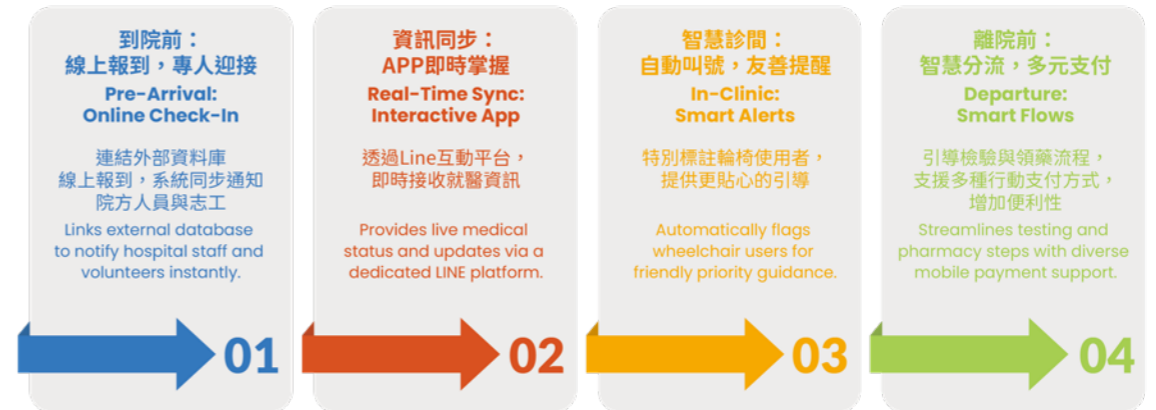
Cross-Process Integration

以交通接送端的服務需求為起點，串接院內掛號、報到、候診、看診與後續作業，使用復康巴士就醫不再受限於門診流程瓶頸，改善並提升病人就醫體驗與車輛周轉效率。

The system begins at the rehab bus request and seamlessly connects registration, check-in, and consultation. By removing outpatient bottlenecks, the hospital has simultaneously enhanced patient experience and vehicle utilization rates.

自動化系統導入：優化復康巴士就醫體驗

Automation: Enhancing the Patient Journey





高雄市政府衛生局 Department of Health
高雄榮民總醫院 Kaohsiung Veterans General Hospital

生成式 AI 高齡長者住院失能風險與銜接長照預測系統

Generative AI-Based Prediction System for the Risk of Disability and the Needs of Long-Term Care Services among Older Adults During the Hospitalization

醫療與長照無縫銜接守護長輩健康

Seamless Integration of Medical & Long-Term Care to Protect Elderly Health

高齡化社會到來，醫療照護系統也迎來了新挑戰，各種照護問題也隨之浮現。高齡者住院時，經常出現身體功能快速衰退，引發生活失能的連鎖反應，不僅造成家屬沉重負擔，傳統評估工具在因應上也難以即時精準預警。利用新科技，高雄導入 AI 技術，建立風險與預測系統，決心要守護高齡者的生活品質，優化銜接長照醫療資源，加快精準的照護決策，提高行政效率，以實踐智慧化照護的願景目標。

As society ages, the healthcare system faces new challenges. Elderly inpatients often experience rapid physical decline, leading to a chain reaction of disability. Utilizing new technology, Kaohsiung has introduced AI to establish a risk prediction system, aiming to safeguard quality of life, optimize the transition to long-term care, accelerate precise clinical decisions, and improve administrative efficiency to achieve the vision of smart care.

以高齡住院患者為核心，打造新照護模式

A New Care Model Centered on Elderly Inpatients

此系統導入 AI 智能分析，精準預測住院期間功能下降的風險，自動提供合適的照護計畫，並推估長照失能等級與服務的需求，達成客製化的輔助臨床與個案管理決策。藉由串聯醫療與長照體系，提前完成服務銜接，確保照護不中斷，期望將智慧醫療與長照資源進行整合。

This system implements AI analysis to accurately predict the risk of functional decline during hospitalization. It automatically provides suitable care plans and estimates disability levels and service needs for long-term care, achieving customized support for clinical and case management decisions. By linking medical and long-term care systems, it ensures a seamless transition of services and integrates resources effectively.

智慧醫療雙引擎，精準預測 X 智慧生成

Smart Medical Dual Engines: Precise Prediction X Generative Intelligence

開發風險預測模型，整合兩大 AI 技術解決高齡住院失能問題，透過分析住院病患大數據，針對高齡患者多重共病特徵，精準預測 ADL 功能衰退風險，並利用 SHAP 技術提供可解釋性因子分析。另結合生成式 AI、大型語言模型、檢索增強生成及護理 SOP 知識庫，自動分析病歷，並生成個人化照護計畫，強化對生理症狀與潛在風險的廣泛性篩查。

The system integrates two major AI technologies to address Hospital-Associated Disability. By analyzing big data, it predicts Activities of Daily Living decline risk based on multimorbidity characteristics and provides interpretable factor analysis via SHapley Additive exPlanations. Additionally, it combines Generative AI, LLM, RAG, and a Nursing SOP knowledge base to automatically analyze medical records and generate personalized care plans, strengthening the screening for physiological symptoms and latent risks.

模型效能精準預測風險

Model Performance: Precise Risk Prediction

採用 CatBoost 模型，於測試集達到準確率 90.07% 與 AUC0.84，顯著優於傳統評估工具。另在風險因子識別部分，驗證出活動力與飲食能力為關鍵保護因子，而鼻胃管與導尿管為關鍵風險因子。

Using the CatBoost model, the system achieved 90.07% accuracy and an AUC of 0.84 in testing, significantly outperforming traditional tools. In terms of risk factors, it identified mobility and eating ability as key protective factors, while nasogastric and urinary catheters were identified as key risk factors.

臨床狀態評估效益最佳化

Optimizing Clinical Assessment Efficiency

大型語言模型平均每案例可識別 11.6 項健康問題，是人工識別 5.3 項的 2.03 倍。其中 64.66% 的問題為醫護人員未列出之潛在風險，發揮了強大之臨床安全網功能。此外，在皮膚破損、感染危險性等類別中，AI 識別率高達 92%-100%，大幅提升風險辨識力。

On average, the LLM identifies 11.6 health issues per case—2.03 times more than the 5.3 items identified manually. Notably, 64.66% of these issues were latent risks not previously listed by medical staff hence the LLM serving as a powerful clinical safety net. Furthermore, AI identification rates for skin breakdown and infection risks reached 92%-100%, significantly enhancing risk assessment capability.





高雄市政府農業局 Agriculture Bureau

高雄農來訊 Kaohsiung Agrinfo System

智慧農業大數據成為農民的靠山 Empowering Farmers with Smart Agricultural Big Data

農來訊是高雄推出的智慧農業大數據平台，改變以往農業看天吃飯的資訊弱勢，將複雜的氣象、產地與市場數據，轉化為直觀可視化的資訊，幫助農民提高農業收益及農產品質。

Agrinfo is Kaohsiung's flagship big data platform, transforming traditional farming from a "gamble with nature" into a data-driven enterprise. By converting complex meteorological, production, and market data into intuitive, visualized insights, the system helps farmers maximize yields and ensure premium crop quality.



2025 中華空間資訊學會第 2 屆「空間資訊永續應用獎」 | 數位治理組優良獎
The Chinese Geoinformatics Society 2nd Geoinformatics Sustainable Application Award | Digital Governance Category, Excellence Award

2024 國家發展委員會第 7 屆政府服務獎 | 數位創新加值獎
National Development Council 7th Government Service Award | Digital Innovation and Value-added Service Award

2023 國際智慧城市組織 (WeGO) 首爾智慧城市獎 | 特別獎
WeGO Seoul Smart City Prize | Special Award
天下雜誌天下城市治理卓越獎 | 社會進步組優選
CommonWealth Magazine City Governance Awards | Social Progress Category, Excellence Award



2022 智慧城市創新應用獎 | 智慧農業領域
Smart City Innovative Application Awards | Smart Agriculture
世界資訊科技大會 全球資通訊科技卓越獎 | 數位包容獎佳作
WITSA ICT Excellence Award | Outstanding Digital Opportunity Inclusion Award
Gartner 數位政府服務創新獎 | 亞太區首獎
Gartner Asia-Pacific Government Digital Innovation in Services Award | First Prize

包羅萬象的服務內容 A Comprehensive Service Ecosystem

這其中包括了整合農業資訊服務，涵蓋生產防災害預警與地理資訊，協助農民智慧防災、智慧產銷等服務，提供可能影響、防範及復耕的建議，並於各生產期提供智慧輔助決策。每日對 300 項以上之蔬果市場交易價格進行漲跌分析，協助農民因應市場消費趨勢，調整產銷計畫。

The platform integrates production disaster warnings with Geographic Information Systems (GIS) to support smart disaster prevention and production-sales strategies. It offers actionable advice on risk mitigation and replanting while providing decision support across every growth stage. Agrinfo performs daily price fluctuation analysis on over 300 fruit and vegetable commodities, helping farmers align their production cycles with shifting market trends.

科學助力看風水 Scientific Precision in Farming

提供 66 種作物的水及溫度防災告警門檻，結合國家災防中心「臺灣氣候變遷推估資訊與調適知識平台計畫」，演算日射量、作物需水量與生產期間遭遇災害的風險，比較不同種植地點、日期對作物的影響，扭轉傳統農民資訊弱勢的不利地位。

We have established disaster alert thresholds for 66 different crops, covering critical water and temperature requirements. By integrating national climate change projections, the system calculates solar radiation, crop water demand, and disaster risks. This allows farmers to compare the impact of different planting locations and dates, eliminating the information disadvantage of traditional farming.

補助計畫帶動農業數位轉型 Accelerating Digital Transformation

以智慧感控系統、智慧環控系統、智慧生產、智慧服務，四大面向規劃「高雄市政府農業局農業補助計畫」，114 年度迄今完成 133 戶農場建置、作物種類增至 66 種、導入面積增加至 1,309 公頃、帶動農業投入約 7,195 萬元。

The Smart Agriculture Subsidy Program accelerates the digital shift through smart sensing, environmental control, and optimized production services. By 2025, the initiative has upgraded 133 farms across 66 crop varieties in 1,309 hectares and brought in investment of NT\$71.95 million.





高雄市政府農業局 Agriculture Bureau

高雄植醫來幫忙 Kaohsiung Plant Doctor

雲端植物醫生守護高雄農業 Cloud-Based Plant Doctor for Smart Agriculture

氣候變遷與外來蟲害入侵，造成農作物面臨的病蟲害型態惡化，傳統植物專家下鄉巡診與紙本紀錄的模式，難以因應高雄幅員遼闊、多樣性作物的需求。於是高雄將植物診療專業與數位科技結合，推出高雄植醫數位平台，透過手機 LINE 就能獲得專業植物醫生的診斷與建議，這是臺灣首創的市政植醫服務網。

Climate change and invasive pests have intensified crop threats. Traditional on-site visits and paper records can no longer keep pace with Kaohsiung's vast territory and diverse crops. To solve this, Kaohsiung launched the Plant Doctor Digital Platform—Taiwan's first municipal service network that brings professional agricultural diagnostics directly to farmers' smartphones via LINE.



2025 天下城市治理卓越獎 | 社會進步組優選
CommonWealth Magazine City Governance Awards | Social Progress Category Excellence Award

LINE 線上掛號與諮詢服務 LINE-Based Registration & Consultation

高雄植醫是透過 LINE 平台，提供線上掛號、遠距診斷、用藥建議、疫情預警等智慧農業服務。農民可以上傳作物照片，進行文字諮詢或視訊遠距診斷，植物醫生線上即時進行病徵分析，提供正確用藥建議，農民可持電子處方箋購買正確藥劑解決病蟲害問題。

The platform provides smart services including online registration, remote diagnosis, pesticide recommendations, and outbreak alerts. Farmers can upload crop photos for text-based consulting or video calls. Plant doctors analyze symptoms in real-time and issue electronic prescriptions, allowing farmers to purchase the correct treatments immediately.

雲端植醫零距離 Seamless Cloud Care

除了線上看診的服務，植物醫生也會進行田間治療的服務，透過雙管齊下的方式，主動調查與建構病蟲害數據，協助農民診斷與解決農害問題。

The service follows a dual-track approach: online virtual clinics and physical field inspections. Plant doctors actively investigate pests to build a comprehensive cloud database, ensuring no gap exists between diagnosis and real-world resolution.

預警與推播病蟲害資訊 Early Warning & Pest Alerts

根據大數據及節氣資訊，植物醫生會研判近期的蟲害流行病資訊，透過線上即時預警與推播通知農民。同時，結合綜合診斷資料與農情地理資訊，建立病蟲害監控地圖，串聯區公所與農會網絡，藉以形成植物防疫網，減少可能的農業損害。

By leveraging Big Data and seasonal information, plant doctors predict upcoming pest outbreaks and send instant push notifications to farmers. This diagnostic data is integrated with GIS (Geographic Information Systems) to create pest monitoring maps. By linking district offices and farmers' associations, Kaohsiung has formed a robust plant quarantine network to minimize agricultural losses.

從點到面的守護，服務量能翻長 Scaling Up Protection

高雄植醫網的服務至今已累計 4,073 人次、服務面積 1,958 公頃，平均每位植物醫生的服務量能，相較於 106 年提升了 4.2 倍，線上即時與精準的診療服務，成效卓著。

The Kaohsiung Plant Doctor network has served 4,073 cases covering 1,958 hectares. The service capacity per doctor has increased 4.2 times compared to 2017, demonstrating the significant impact of real-time, precision digital diagnostics.





高雄市政府農業局 Agriculture Bureau

夜間照明防治荔枝細蛾技術 Nighttime Light Control for Litchi Fruit Borers

綠光照明成為守護玉荷包的科学利器 Green Lighting: A Scientific Tool Protecting YuHeBao Litchi

荔枝是高雄重要經濟果樹，其中玉荷包更是在地極具代表性的農產品。荔枝細蛾俗稱蒂頭蟲，則是影響荔枝產量與品質的主要害蟲，牠的幼蟲會鑽入果實蒂頭處取食，導致落果或果實價值全失。於是高雄市輔導農民夜間利用綠光燈照射，有效抑制細蛾活動，既可減少農藥使用，也大幅提升荔枝的產量，增加農民的收益。

Litchi is a cornerstone of Kaohsiung's agricultural economy, with the YuHeBao variety being its most iconic product. The Litchi Fruit Borer is the primary pest threatening yield and quality; its larvae burrow into the fruit base, causing premature drop or total loss of market value. Kaohsiung has guided farmers to use nighttime green LED lighting to suppress borer activity. This method reduces pesticide use while significantly boosting yields and farmer income.

精準光譜研發 Precision Spectrum Research

荔枝細蛾是夜行性昆蟲，透過夜間人工照明，細蛾將靜止不動，擾亂了牠的生物時鐘。經過試驗，綠光 LED 是最有效抑制荔枝細蛾成長數的科学利器，精準打擊細蛾的繁殖，並對植物生長影響最小，能維持荔枝品質與成色。綠光防治技術實施後，解決了農民的困擾。

The Litchi Fruit Borer is a nocturnal insect. Artificial nighttime lighting disrupts its biological clock, causing the moth to remain inactive. Trials have proven that Green LEDs are the most effective scientific tool for suppressing borer populations. This specific spectrum precisely targets pest reproduction with minimal impact on plant growth, ensuring that the fruit's quality and color are preserved.

智慧驅蟲提升荔枝品質 Smart Pest Control & Quality Enhancement

夜間綠光燈照技術將慣行農法危害率從 36% 降至 2%，有機栽培控制在 10% 內，減少果實生長期 20-75% 的農藥使用量，並維持果實大小與甜度，有效抑制荔枝細蛾活動，解決蟲害問題，提升荔枝的銷售狀況。

Green light technology has slashed damage rates in conventional farming from 36% to just 2%, while keeping organic cultivation damage under 10%. It reduces pesticide application by 20-75% during the growing season without compromising fruit size or sweetness. By effectively neutralizing borer activity, the technology has greatly improved the marketability of Kaohsiung litchis.

環保永續且降低成本 Sustainability and Cost Reduction

節省之農藥與噴藥人力，再加上去除蟲害後的豐收，估計一年內即可回收燈具建置與電費成本，不僅優化了農業經營的開銷，更實現了精準農業的目標，有效降低對化學農藥的依賴，打造環保永續的新環境。

The savings in pesticide and labor costs, combined with higher harvest volumes, allow farmers to recoup lighting installation and electricity costs within a single year. This approach optimizes operational expenses and fulfills the goals of Precision Agriculture, reducing chemical dependency and fostering an eco-friendly environment.

智慧農業讓農民受益 Empowering Farmers through Smart Agriculture

自 110 年起推動農業智慧農業補助，涵蓋智慧感控、環境監控、生產與服務等設備，至今已幫助超過百家農場導入智慧生產，包括 8 戶燈照防治，面積 11.4 公頃，補助約共 230 萬元。

Since 2021, Kaohsiung has provided subsidies for smart agriculture, covering smart sensors, environmental monitoring, and automated production. To date, over 100 farms have adopted these technologies. This includes 8 specialized light-control projects covering 11.4 hectares, supported by approximately NT\$2.3 million in subsidies.





高雄市政府資訊處 Information Technology Office

數位市民整合服務平台

Citizen e-Service Platform

為市民開創全方位的便利新生活

Creating a More Convenient, All-in-One City Life

複雜留給系統，將簡單還給市民，打破跨機關的繁瑣流程，推出「一站式市政服務整合平台」。現在，您只需透過簡單的關鍵字搜尋，即可輕鬆跨越局處藩籬，完成各項業務申辦。同時，導入了 24 小時在線的智慧客服系統，提供即時的市政諮詢回覆，為市民打造最便捷、無縫的智慧生活體驗。

Give simplicity to the citizens and leave complexity to the system. The one-stop municipal service platform removes inter-bureau barriers, enabling easy service applications through simple keyword search. A 24/7 AI customer service provides accurate, real-time assistance, delivering a seamless and convenient smart city experience.



建立單一申辦服務門戶

Established Citywide Service Portal

將高雄市政府各機關申辦服務統一收納，透過整合 51 項數位發展部 MyData 服務，大幅減少重複輸入資訊的負擔，簡化整體申辦流程，提升服務的可近性與使用便利性，落實智慧政務便民目標。

A unified municipal service portal consolidating government applications. By integrating 51 MyData service, the platform reduces repetitive data entry, simplifies processes, and enhances accessibility to upgrade citizen-centric smart governance.

數位化與行動化市政整合

Digital & Mobile Municipal Service Integration

數位市民服務涵蓋好孕專區電子乘車券補助、友善寵物卡整合中央登記資料、本府機關規費掃碼線上繳費、災情即時通報與查詢等功能，並結合局處應用，讓市民找得到、用得到，還能用得順暢。

Digital citizen services include electronic taxi vouchers for maternity care, "Pet-Friendly Cards" integrated with central government records, QR code online payments for fees, and real-time disaster reporting and tracking, ensuring services are easy to find, use, and navigate.

提升查詢市政資訊效率

Enhancing Access to Municipal Information

國內首創的「生成式 AI 跨局處市政查詢服務」，導入大語言模型，突破傳統關鍵字查詢限制，實現跨機關智慧搜尋與資訊整合，提供市民精準的市政解答，並與 1999 真人客服搭配協作，打造親切且可信賴的市政服務體驗。

Taiwan's first cross-departmental generative AI municipal inquiry service leverages LLMs to enable intelligent cross-agency search, provide accurate municipal responses, and collaborate with live service agents to provide friendly and accountable service experience.

持續擴大使用規模與成效

Continuously Expanding Scale and Impact

市政服務整合平台
Integrated Service Platform

- 與中央數位發展部 MyData 平台介接之線上服務數量為六都第一
- Ranked 1st Among Six Cities in Online Services Integrated with the MODA MyData Platform

智慧客服
Intelligent Citizen Service

- ETtoday 新聞評選為地方政府最佳 AI 智慧客服
- Voted Best Local Government AI Customer Service by ETtoday News
- 服務觸及量已突破 1 萬人次
- 10,000+ User Sessions
- 累積互動訊息超過 4.7 萬則
- 47,000+ Inquiries Handled

數位市民
Kaohsiung Digital Citizen

- 全國唯一跟 Line 結合的數位市民
- Taiwan's Only Digital Citizen Service Integrated Directly with Line
- 會員數超過 6 萬人
- 60,000+ Registered Members
- 逾 52 萬使用人次
- 520,000+ Cumulative Uses
- 數位市民會員使用頻率為全國最佳之一
- Nation-Leading Member Usage





高雄市政府教育局 Education Bureau

數位學生證 Digital Student ID

學生證成為智慧生活的通行證

Digital Student ID, A Gateway to Smart Living

推廣校園數位化，將原先傳統紙本的證件，整合為具備電子票證功能的智慧卡片。高雄市自 101 學年度發放高中職數位學生證，並於 114 學年度起全面發放予三級學校學生，這張塑膠卡片不僅是身分證件，還兼具校園應用的功能，最重要的是結合一卡通 (iPASS)，提供學生搭乘大眾交通運輸、借書、消費等多元功能服務，一卡在手，方便無窮。

To promote campus digitalization, traditional paper-based credentials have been integrated into smart cards with electronic payment capabilities. Kaohsiung City has been issuing Digital Student IDs for senior high schools since the 2012 academic year, and has expanded this unified issuance to all three levels of public and private education starting from the 2025 academic year. Beyond acting as a formal identification document, these plastic cards serve various campus functions. Most notably, they integrate iPASS technology, offering a versatile range of services—including public transportation, library borrowing, and retail payments—providing students with "all-in-one" convenience.



從紙本到數位的永續目標 From Paper to Digital, Pursuing Sustainability

數位學生證結合大眾運輸優惠方案，以票價誘因引導學生使用綠色運具，減少私人機車使用，降低上下學交通事故風險，也進一步促進環境永續的目標。

The Digital Student ID incorporates public transit discount schemes to incentivize the use of "green" transportation. By encouraging students to choose public transit over private scooters, the initiative reduces the risk of traffic accidents during commutes and contributes to long-term environmental sustainability goals.

擴大教育服務觸及 Expanding the Reach of Educational Services

將圖書借閱與藝文體育參與納入學生證使用情境，結合市立圖書館借書服務、參加藝文活動折扣、體育賽事學生 50 元看球優惠方案等，提升教育延伸功能與城市資源使用率。

The scope of the ID card extends to library services, arts, and sports. By integrating Kaohsiung Public Library borrowing privileges, discounts for cultural events, and the "NT\$50 Student Ticket" program for professional sports matches, the city has successfully enhanced the extension of educational resources and increased the utilization of urban facilities.

全面數位化，一卡在手走遍高雄 Comprehensive Digitalization, Navigating Kaohsiung with a Single Card

目前高雄市公私立三級學校，包括國小、國中及高中職，均已完成數位學生證的製卡與發放，讓每位學生都能享有同等的便利與優惠，以一卡通行於校園與城市之間。

Currently, Digital Student IDs have been produced and distributed across all three levels of public and private education in Kaohsiung—including elementary, junior high, and senior high schools. This ensures that every student enjoys equitable access to convenience and benefits, allowing them to navigate seamlessly between the campus and the city.

數位學生證三大核心 Three Core Pillars of the Digital Student ID





高雄市政府教育局 Education Bureau

高雄校園通 Kaohsiung Campus Pass

用科技打造溝通無礙的教育環境 Building a Seamless Educational Environment Through Technology

高雄市設置的官方校園 APP，整合全市高中職、國中及國小的校務資訊，讓家長、老師與學生能在同一個平台上，輕鬆取得各項所需資訊，可即時溝通與管理學習生活，有效提升親子、師生、家長與老師之間的聯繫溝通與管理效率。

The official Kaohsiung campus app integrates school administrative data across all senior high, junior high, and elementary schools. By providing a unified platform for parents, teachers, and students, it simplifies access to essential information and enables real-time management of academic life. This digital solution significantly enhances communication and administrative efficiency between families and schools.



單一平台整合多元身分資訊 A Unified Platform for Multi-Stakeholder Integration

家長、教師、學生透過平台能快速互動，提升三方溝通效率，並快速傳達訊息，包括學校的重要公告及活動資訊等，且可依年級或班級即時推播，提高通知到達率與參與度。

The platform facilitates rapid interaction between parents, teachers, and students, streamlining communication and ensuring the timely delivery of information. Critical school announcements and event updates are distributed via real-time push notifications tailored to specific grade levels or classes, ensuring high reach and engagement rates.

校務行政與學生照護整合 Integration of School Administration and Student Care

支援線上製單及繳費功能，線上平台可減少學校行政作業，方便家長即時繳款；即時通知學生動態，包括點名、出缺席請假等資訊，確保家長同步掌握學生出席狀況；提供健康中心紀錄。

The app supports digital invoicing and online payment functions, reducing administrative overhead for schools while providing parents with a convenient, instant payment method. To ensure student safety, the system provides real-time attendance tracking and leave management, keeping parents informed of their child's status. Furthermore, it provides access to health center records.

建立市級一致服務 Consistent City-Wide Service Standards

提供全高雄市三級學校 350 所 (含分校) 共用的數位服務入口，形成一致的校園數位體驗與管理流程，有效促進校務系統整合與資源共享，提升整體行政管理效率與服務品質。

As the centralized digital gateway for 350 schools (including branches) across all three educational levels in Kaohsiung, the app establishes a consistent management workflow and digital experience. This city-wide integration promotes resource sharing and optimizes overall administrative efficiency and service quality.





高雄市政府運動發展局 Sports Development Bureau

走跑高雄 Happy Run Kaohsiung

將城市變成健康新生活的跑道 Transforming the City into a Track for Healthy Living

鼓勵民眾透過健走或跑步的形式，走跑高雄，市府與馬拉松世界 APP 合作創建專屬的運動平台，以高雄城市風貌為路線，串聯高雄各大景點與運動場域。民眾透過手機或其他穿戴式裝置，可以記錄完整的運動軌跡及運動數據，讓運動強身的體驗，更具真實感與科技感。

Encourage active living, the City Government partnered with the Marathon World APP to launch a dedicated fitness platform. By integrating Kaohsiung's urban landmarks into curated running routes, the initiative allows citizens to track real-time exercise data via smartphones and wearable devices, merging physical fitness with a high-tech experience.



觀光與運動成為新生活樂趣 Tourism and Sport: A New Lifestyle

下載馬拉松世界 APP，參加走跑高雄活動，將不局限在單一路段或活動，而是將整個城市當成無邊際的運動場，長期使用與不斷回訪，是一場不受時間限制的高雄馬拉松賽。在延續 113 年「走跑高雄」12 條經典路線後，目前已再增加 24 處運動熱點，民眾可在亞灣或駁二散步，可到運動中心健走，也可以登山健行，高雄多處的人文美景都收納到自己的運動行程中。115 年 4 月將推出走跑高雄 3.0+，運動熱點擴及全市 38 個行政區，讓全高雄的市民朋友都能輕鬆參與。

The "Happy Run" initiative transforms the entire city into a borderless stadium. Unlike traditional races, this "timeless marathon" encourages long-term participation. Building on 12 classic routes introduced in 2024, the platform now features 24 additional fitness hotspots. From strolling through the Asia New Bay Area and Pier-2 to hiking local trails, residents can seamlessly integrate Kaohsiung's scenic beauty into their personal workout routines. "Happy Run 3.0+" is set to launch in April 2026. The initiative will expand fitness hotspots to all 38 districts, making it easy for every citizen in Kaohsiung to participate.

促進全民參與運動 Driving Public Participation

APP 上也設計了任務勳章及抽獎券，提高趣味性與激發行動力，讓更多民眾走向戶外，養成規律運動習慣，增加健身活動及運動量的成長，另也盼提升報名參與路跑賽事的意願，加入有益健康的健走及慢跑運動，進而活絡高雄運動相關產業。計畫上線至今，高雄市民運動黏著度與運動量明顯提升高於 5%，顯示平台化服務與路線策略具有一定成效。

The platform utilizes achievement badges and rewards to gamify fitness and foster consistent exercise habits. Beyond increasing daily activity levels, the project also aims to boost participation in local road races and energize the city's sports industry. Since its launch, user engagement and exercise volume have increased by over 5%, validating the success of this digitally driven fitness strategy.

規律運動，人生就像一場馬拉松 Consistency in Motion: Life is a Marathon



活動自 114 年 2 月 27 日起跑，截至 12 月 31 日，活動累積成效
Starting from Feb. 27 to Dec. 31, 2025

- 👤 參加人數 **7,525** 人
Participants: **7,525**
- 📄 總記錄運動次數 **141** 萬 **9,517** 筆
Total Exercise Records: **1,419,517** entries
- 🕒 總活動時間 **148** 萬 **4,711** 小時
Total Activity Time: **1,484,711** hours
- 👣 累積運動步數 **92** 億 **1,861** 萬步
Accumulated Steps: **9.21** Billion steps
- 📏 總里程 **728** 萬 **1,468** 公里
Total Distance: **7,281,468** km



活動前 4 週與活動後 3 個月對照 (每人每週)
Exercise Growth (4 wks. prior vs. 3 months post-activity)

- 📏 平均距離增加 **16%**
+16% Average Distance
- 👤 活躍人數增加 **17%**
+17% Active Users
- 👣 平均運動次數增加 **28%**
+28% Average Exercise Frequency





高雄市政府運動發展局 Sports Development Bureau

智慧健身房 Smart Gym

透過科技開啟智慧健身新體驗 A Tech-Driven Fitness Experience

這項透過物聯網與 AI 大數據，將運動中心升級為全方位的智慧健身房，解決了傳統運動場館的數據孤島現象，除增加市民與場館運動器材的體驗與互動，同時提升使用便利性，並協助場館進行數位化營運管理，實現以科學數據驅動的運動健康服務，以智慧科技提升全民運動風氣。

By integrating IoT and AI Big Data, traditional sports centers have been upgraded into comprehensive Smart Gyms. This transformation eliminates "data silos" and enhances the interaction between citizens and equipment. Beyond improving user convenience, it enables digitized facility management and provides science-based health services to promote a city-wide fitness culture.



多元設備數位串接 Multi-Device Digital Integration

結合了有氧器材、力量鍛鍊及沉浸式體驗，例如互動跳床與激流泛舟等設備，都能透過物聯網技術即時擷取運動數據，增加使用者與設施的互動性，讓運動不再是枯燥乏味的訓練，而是如同玩遊戲一樣的有趣。

IoT technology seamlessly connects aerobic machines, strength equipment, and immersive experiences—such as interactive trampolines and rapid-river rowing. By capturing real-time exercise data, these facilities turn repetitive training into an engaging, game-like experience.

個人化雲端履歷 Personalized Cloud-Based Profile

物聯網技術即時擷取運動數據，並建置在專屬雲端系統，讓使用者可隨時存取個人運動數據和過往的歷史記錄，落實自我健康管理，有效提升了民眾對運動中心的黏著度與參與意願。

Exercise data is captured instantly and stored in a dedicated cloud system. Users can access their personal workout history anytime for effective self-health management, significantly increasing user loyalty and participation at sports centers.

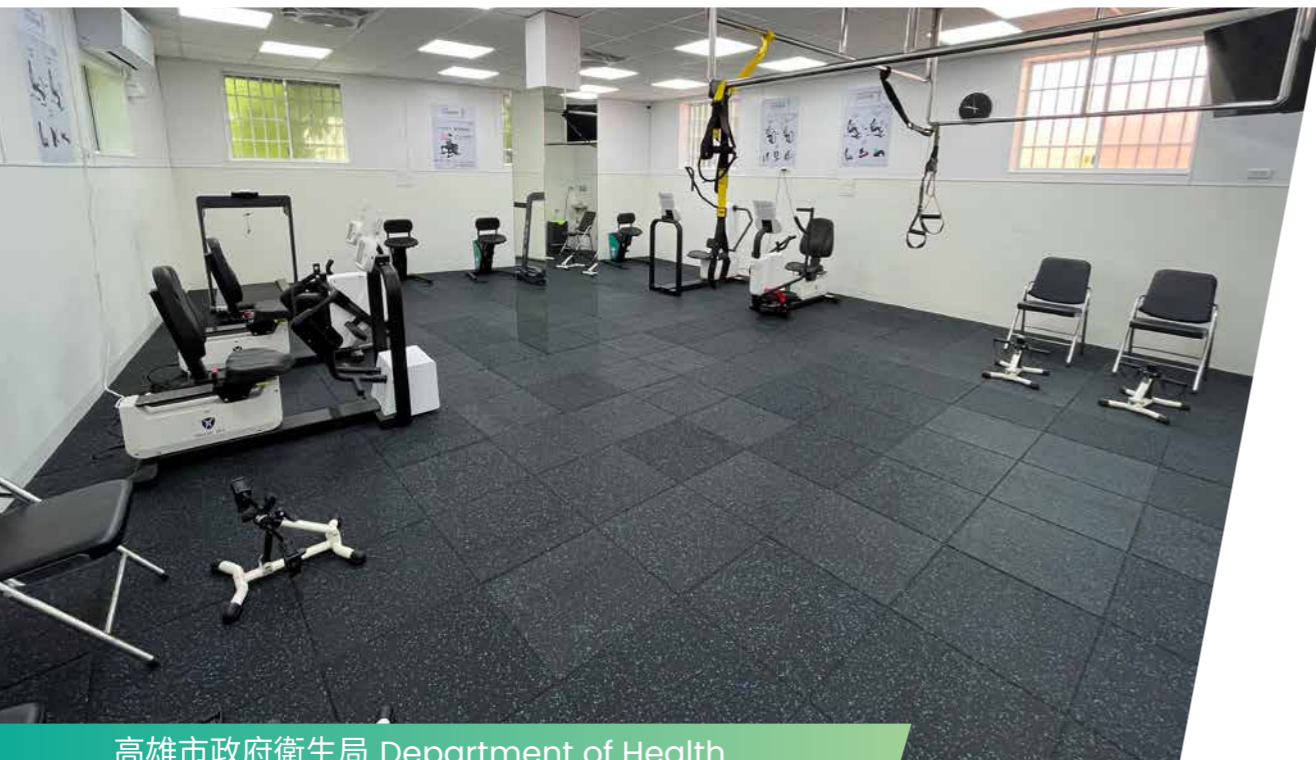
場館數據戰情室 Venue Data Command Center

場館入口處設置動態看板，即時顯示館內設備佔用狀態、館內人流熱度及全館累積運動量，直觀的視覺化圖表，方便使用者即時掌握場館資訊，落實了場館營運管理的數位化，使得場館能更具效能與效率的為民所用。

Dynamic dashboards at facility entrances display real-time equipment availability, occupancy heatmaps, and cumulative activity levels. These intuitive visualizations allow users to stay informed while enabling more efficient, data-driven management of public sports venues.

運動數據的採集與分析成為具體可量化的管理指標 Quantifiable Management through Exercise Data Analysis





高雄市政府衛生局 Department of Health

銀髮健身俱樂部 Silver Fitness Club

長輩運動健身成就不老高雄 Empowering Senior Fitness: Building an Ageless Kaohsiung

結合智能運動器材與健康管理平台，為長輩打造安全的運動空間。有專業運動指導人員進行功能評估與個別化指導，藉由環狀運動器材，採取聚在一起、輪流使用的方式，讓長輩能夠健康老化、活躍老化，讓長輩們走得更穩、活得更有自信。

By combining AI-powered equipment with a digital health platform, we provide a safe, smart sanctuary for seniors. Through professional assessments and personalized guidance—using a social, “circuit training” format—we help elders age actively, walk steadily, and live with renewed confidence.



安心且持續的銀髮運動 Safe & Sustainable Senior Wellness

由專業人員依長者個別功能與需求，規劃肌力、心肺、柔軟度及平衡等體適能訓練，提供適切指導，進而降低跌倒風險及防止慢性病。各服務據點每週至少提供 2 日、每日 1 時段以上之專業運動服務，每時段不少於 2 小時，確保服務穩定性與運動成效。

Our experts design tailored programs focusing on muscle strength, cardio, flexibility, and balance to reduce fall risks and prevent chronic disease. To ensure lasting results, each site offers professional sessions at least twice a week (minimum 2 hours per session), guaranteeing training stability and effectiveness.

專業師資守護運動安全 Certified Professional Coaching

運動指導服務由具運動或醫學背景之專業人員擔任，並具備國民健康署預防及延緩失能相關運動指導資格，且須完成長者在能力檢測等培訓課程，以提供長輩安全且適齡之運動指導。

Safety is our priority. All instructors possess sports or medical backgrounds and hold certifications from the Health Promotion Administration. Specialized training in Intrinsic Capacity Assessment ensures every senior receives age-appropriate, medically-sound guidance.

讓健康走進生活的每個角落 Wellness in Every Corner of Life

銀髮健身俱樂部設置於高雄市各個角落，包括圖書館、飯店、百貨公司等公共及生活場域，將運動融入日常生活空間，營造友善可近的健康環境，每處據點經費補助最高可達新臺幣 100 萬元，政府提供的經費支持，對俱樂部的設施、設備與服務推動，提供極大的助益。

We bring fitness to you. Our clubs are integrated into many corners like libraries, hotels, and department stores, creating a friendly, accessible environment. With government subsidies of up to NT\$1 million per site, we ensure top-tier facilities and services for the community.



設置據點
Presence

24區共31處 (布建數全國第一)
31 sites across 24 districts (Ranked #1 in Taiwan)



服務人數
Total Reach

累計2,363位長者 (截至114年12月)
2,363 seniors served (as of Dec. 2025)



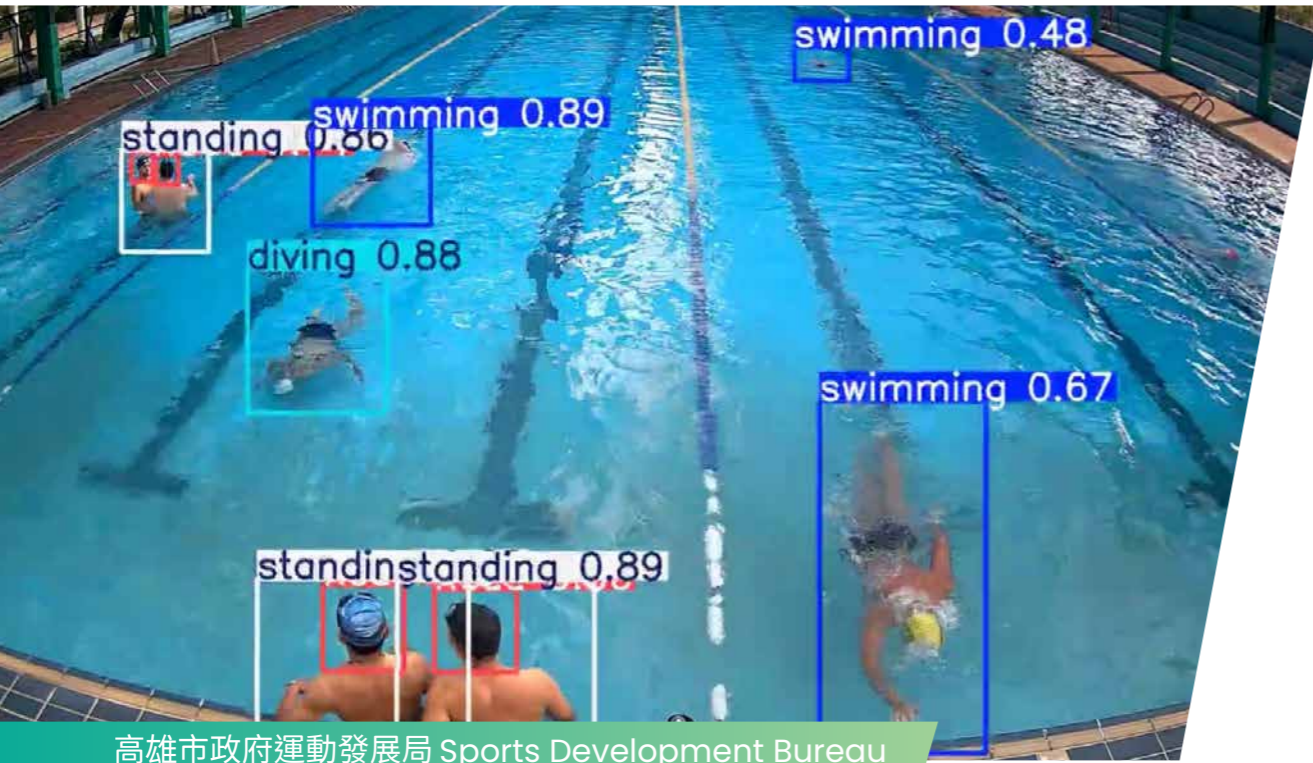
參與人次
Total Engagement

41,649人次 (截至114年12月)
41,649 visits (as of Dec. 2025)



體適能成效
Proven Results

上肢肌力、下肢肌力與動態平衡指標均顯著提升
Significant improvements in upper/lower body strength and dynamic balance.



AI 智慧防溺系統 AI Drowning Detection System

打造水域運動安全的防護網 Building a Safety Net for Aquatic Sports

陸續在高雄市立游泳池與運動中心設置的 AI 智慧防溺系統，是一套水上、水下智慧泳池安全監測輔助系統，成為游泳池旁安全的守護者，也是救生員的第二雙眼睛。運用 AI 影像辨識即時偵測泳者的溺水風險，發出亮燈與鈴聲警示救生員，爭取黃金救援時間。The AI Drowning Detection System, deployed across Kaohsiung's public pools and sports centers, serves as an intelligent monitoring assistant for both surface and underwater safety. Acting as a "second pair of eyes" for lifeguards, the system utilizes AI video recognition to detect drowning risks in real-time. Upon detection, it immediately triggers visual and audible alerts to assist lifeguards in securing the critical "golden window" for rescue.

水陸聯動，全方位監控 Integrated Land-Water Monitoring

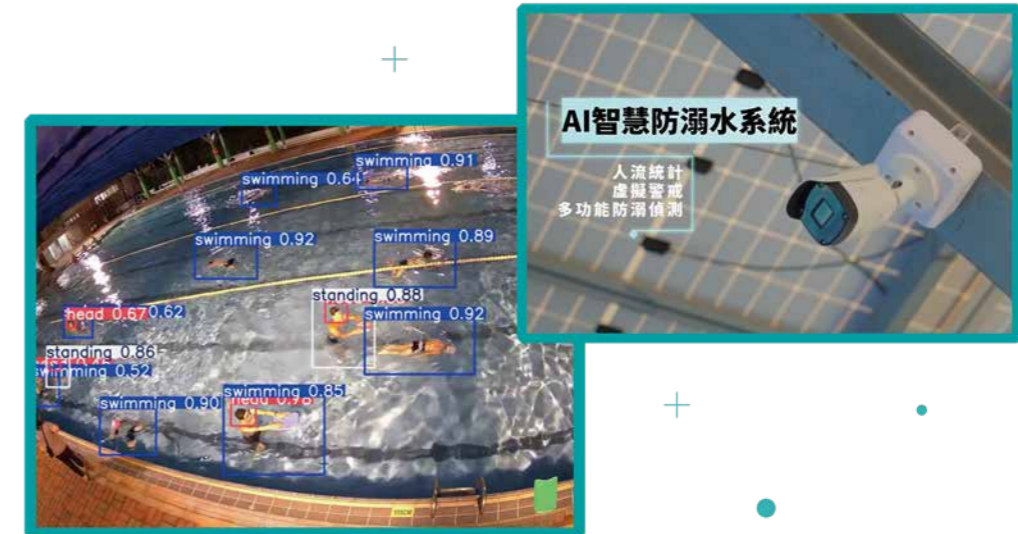
系統建置的水上與水下攝影機，同步運作，捕捉游泳池內影像，包括水面波動與泳客肢體動作。系統會主動辨識疑似溺水的樣態，如沉入池底、載浮載沉或漂浮不動，偵測率達 96% 以上，一旦有異狀，就會即時啟動警示通知機制，以便救生員可以更快進行救援，讓公共泳池的安全獲得更佳保障。

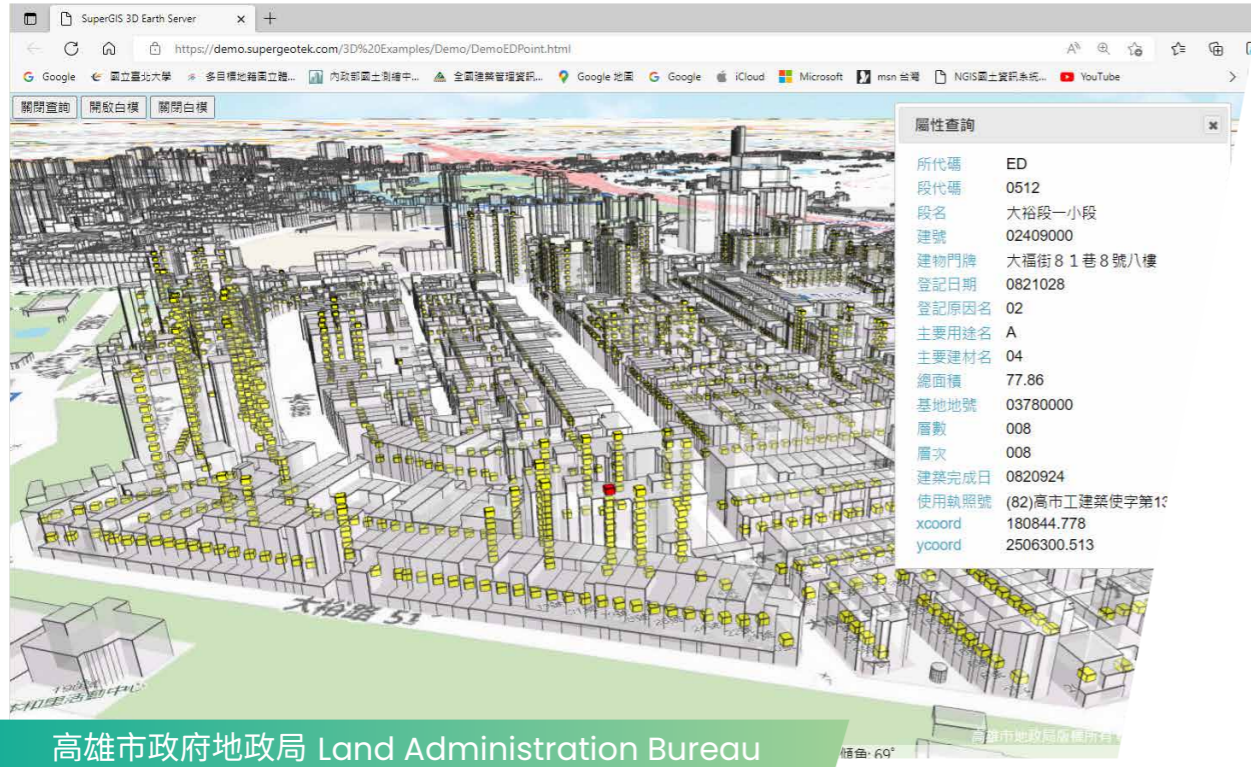
The system utilizes synchronized overhead and underwater cameras to capture real-time pool data, including surface ripples and swimmers' movements. By actively identifying high-risk behaviors—such as sinking, struggling, or motionless floating—the system achieves a detection rate of over 96%. Once an anomaly is detected, the alert mechanism triggers instantly, enabling lifeguards to respond faster and ensuring superior safety for public pools.

定義水域安全新標竿 Setting a New Benchmark for Aquatic Safety

高雄市近年來積極將智慧科技結合運動，打造出全國首個智慧泳池防護網，強化友善運動環境與智慧城市公共安全，以數位科技補強救生員人手短缺的問題，同時也為泳客，尤其是中高齡泳者，提供全方位無死角的安全防護。

Kaohsiung is pioneering the integration of smart technology with sports to build Taiwan's first Intelligent Pool Safety Net. This initiative strengthens public safety and addresses lifeguard shortages through digital innovation. It provides comprehensive, "blind-spot-free" protection for all swimmers, with a particular focus on the safety of seniors.





高雄市政府地政局 Land Administration Bureau

地政多維度圖台系統 Cadastral Multi-Dimensional Map Platform

3D 空間技術為城市勾勒願景與商機 Sculpting Urban Visions and Opportunities through 3D Spatial Technology

在電腦環境中建置與真實世界相符的城市模型，有效解決垂直空間產權複雜問題，提升資訊透明度與資料流通性，可廣泛應用於建物管理與估價、都市設計、戶政及警消等相關功能。高雄市率先建置了國內最多三維地籍建築物模型，透過數位孿生，3D 智慧國土，也讓地政服務應用到都市規劃、韌性城市及防災等領域。

By integrating Digital Twin technology, Kaohsiung has constructed a high-fidelity 3D city model that mirrors the physical world. This platform effectively resolves the complexities of vertical property rights, enhances data transparency, and streamlines information flow, providing a foundational tool for building management, urban design, and emergency services. Kaohsiung leads the nation in the volume of 3D cadastral building models, extending land administration services into urban planning, resilience, and disaster prevention.



跳脫傳統二維限制，打造三維地籍建物 From 2D to 3D Smart Applications

透過介面擴展資料應用領域，將傳統 2D 地政推升至 3D 智慧應用，提供三維地籍建物模型應用、土地及建築物查詢、實價登錄三維查詢、建物時序、三維導覽，以及三維城市模擬等應用，成為發展智慧城市的重要基礎要件。
Beyond traditional mapping, the platform utilizes APIs to expand data utility. It offers multidimensional tools including property queries, 3D price registration tracking, building timelines, and advanced urban simulations.

地籍建物產權模型 Property Rights Modeling

發展以建築物地號、建號(戶)為單元，提供多維度的加值功能，包括查詢三維建築物模型，直觀了解產權範圍與樓層分布。點選地圖可直接連結地號、建號、土地使用分區及實價登錄記錄，並提供模擬分析，包括提供日照模擬及可視度分析。
Utilizing Land and Building Numbers as core units, users can intuitively visualize property boundaries and floor distributions. Selecting a map location provides instant access to land use zoning and real-value transaction records. The system supports sunlight simulations and visibility studies, to aid sophisticated urban development.

引領高雄地政邁向智慧國土 National Leadership in Smart Land Management

高雄地政多維度圖台系統內的建築物模型規模，數量居全國之冠。Kaohsiung's Cadastral Multi-Dimensional Map Platform owns the largest database of 3D building models in Taiwan.

- ▲ 累積 3 萬多棟建物
30,000+ Buildings
- ▲ 20 萬筆建號
200,000+ Building Serial Number





高雄市政府都市發展局 Urban Development Bureau

智慧公宅 Smart Public Housing

產業聯動社宅，發展安居智慧化的住地 Integrating Industry and Living for an Intelligent Future

高雄社會住宅政策釋出市區交通便捷精華地段，提供附近亞灣 5G AIoT 創新園區就業員工、青年家庭及弱勢族群入住，與國家住都中心合作推動 3.5 萬戶社會住宅，打造智慧宜居聚落，滿足市民產業與住居需求。

Kaohsiung's social housing policy prioritizes prime urban locations with seamless transit access. By collaborating with the National Housing and Residential Urban Renewal Center to develop 35,000 units, we are building smart, livable clusters that cater to the 5G AIoT workforce in Asia New Bay Area, young families, and vulnerable groups.



- 2025 城市工程品質金質獎 | 金質獎 / 數位 AI 金優獎**
Urban Construction Gold Awards | Gold Award / Digital AI Gold Excellence Award
- 2024 第 26 屆國家建築金質獎 | 金質獎 / 全國首獎**
26th The National Golden Award for Architecture | Gold Award / National Grand Prize
城市工程品質金質獎 | 金質獎 / 職業安全衛生金優獎
Urban Construction Gold Awards | Gold Award / OSH Golden Excellence Award
國家卓越建設獎參選 | 金質獎
FIABCI-Taiwan Real Estate Excellence Awards | Gold Award
- 2023 城市工程品質金質獎 | 金質獎**
Urban Construction Gold Awards | Gold Award
- 2022 國家卓越建設獎 | 最佳社會住宅類特別獎、最佳規劃設計類金質獎**
FIABCI-Taiwan Real Estate Excellence Awards | Affordable Housing Category – Special Award; Planning & Design Category – Gold Award

智慧淨零的公共住宅 Smart & Net-Zero Living

採淨零建築理念，以提高新建建築物能源效率、提升家電及設備能源效率、建築節能減碳新技術及工法研發與推廣應用為三大主軸，將建築延壽與循環經濟理念納入設計，導入智慧停車、物管、三表、節能等多項智慧系統。

Guided by net-zero principles, our housing focuses on three pillars: superior energy efficiency, smart appliance optimization, and innovative low-carbon construction. We incorporate circular economy designs to extend building lifespans and deploy smart systems for parking, property management, advanced metering (water/power/gas), and energy savings.

健康多元共融社宅 Healthy, Inclusive, and Diverse Communities

採社區共享開放理念，全齡友善為核心，建構多元共融活動空間，其中亞灣公宅融合建築美學及 5G AIoT 智慧科技應用，已榮獲銀級綠建築、智慧建築、耐震、無障礙住宅與住居空間通用化等多項標章。

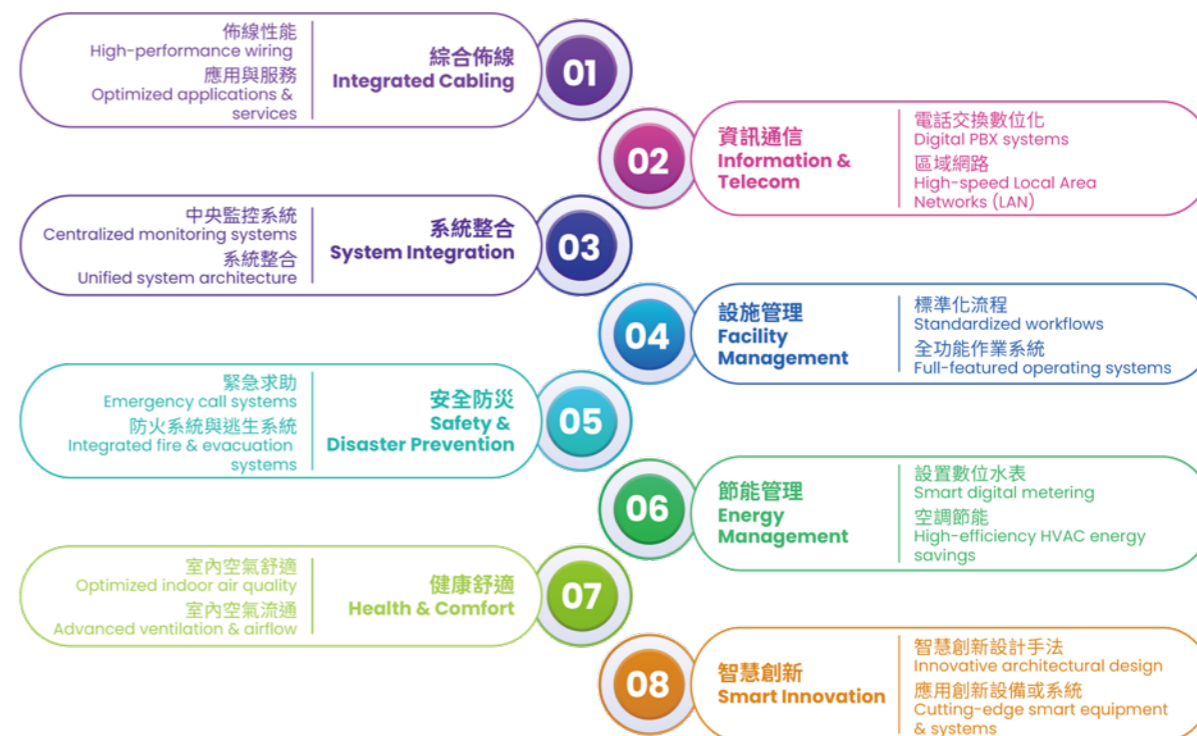
Our "Community Sharing" philosophy puts all-age friendliness at the core. The Asia New Bay Area Public Housing, for instance, merges architectural aesthetics with 5G AIoT technology. These projects have earned prestigious certifications for Green Building (Silver), Smart Building, Seismic Resistance, and Universal Design.

落實智慧宜居藍圖 Realizing the Smart Living Blueprint

114 年底，高雄市共興辦社會住宅 26,200 戶，已完工 3,336 戶、興建中（含已決標）19,651 戶、盤點（規劃中）3,213 戶，以產業、居住、商業三位一體，高雄正朝向居住正義、智慧城市雙軸並進的願景邁進。

As of late 2025, Kaohsiung is rapidly advancing its vision of housing justice and smart city development through a three-in-one approach—Industry, Residence, and Commerce, with 26,200 units planned, 3,336 units completed, 19,651 units under construction, and 3,213 units in planning.

智慧建築八大指標 The 8 Pillars of Smart Building Excellence



3

亞灣創新 AI 群聚

Asia New Bay Area Innovation: A Hub for AI Startups



數位與淨零

Digital & Net-Zero

高雄市積極推動智慧科技產業發展，從中央到地方聯手，投入逾百億元資金，催生亞灣智慧科技創新園區，聚焦在高雄產業的智慧及淨零雙軸轉型，將原來是傳統重工業基地的灣區，成功升級蛻變為全臺最大的 5G AIoT 實證場域，並透過新創基地以大帶小帶動創新能量，形成別具特色的高雄新創生態系，吸引各國際大廠匯集於此，高科技產業聚落已具規模，成為高雄轉型的核心引擎。

於是，一個重工業城市蛻變成為臺灣的數位科技重鎮。高雄在大步邁進後，迎來的將是放眼國際、連結全球進步的新時代。

Kaohsiung City is actively driving the smart technological advancement. Through a joint investment of over NT\$10 billion from both central and city governments, the initiative has evolved Asia New Bay Area's Smart Tech Innovation Park. This strategic upgrade focuses on the dual axis transformation of Kaohsiung's industries: Digitalization and Net-Zero. What was once a traditional heavy industrial waterfront has successfully transformed into Taiwan's largest 5G AIoT testbed. Driving innovation through a "big-leading-small" mentorship model within our startup hubs, fostering a uniquely Kaohsiung startup ecosystem, Kaohsiung has cultivated a unique startup ecosystem that attracts major international corporations. This growing high-tech cluster has now become the core engine of Kaohsiung's economic restructuring.

As a result, a former heavy industrial city has emerged as a digital technology hub in Taiwan. Kaohsiung is stepping into a new era—one that is globally oriented and seamlessly connected to international progress.



亞灣智慧科技創新園區 Asia New Bay Area Smart Technology Innovation Park

對接國際市場的智慧科技新都心 A Smart Tech Hub Connecting to Global Markets

高雄擁有強大的石化、鋼鐵、造船基礎，亟須導入 5G、AI 等新科技，推動產業數位及淨零雙軸轉型，協助傳統製造業邁向智慧製造。

Kaohsiung is leveraging its strong industrial foundation in petrochemicals, steel, and shipbuilding to drive a "Dual-Axis Transformation" (Digital and Net-Zero) through 5G and AI.

自 2021 年起，中央與高雄市政府合力推動下，在高雄亞洲新灣區推動國家級的亞灣 5G AIoT 創新園區計畫 (亞灣 1.0)，開始布建 5G 基礎建設、招商引資及培植新創團隊；2023 年經行政院核定亞灣 2.0 - 智慧科技創新園區推動方案，投資規模擴增至 7 年 170 億，以「擴大用地、群聚、創新研發與國際輸出」為核心，預估將帶動 550 億元以上的民間投資，創造至少 4,200 個就業機會，以及 2,200 億元的產值，並建構出具國際鏈結能力的產業聚落。

Following the successful Asia New Bay Area 5G AIoT Innovation Park "YaWan 1.0" launch in 2021, the government-initiated Asia New Bay Area Smart Technology Innovation Park "YaWan 2.0" in 2023 with a 7-year, NT\$17 billion investment. Focused on expanding land use, industry clustering, innovation & RD, and international export, the project is expected to stimulate NT\$55 billion in private investment, create more than 4,200 jobs, and generate NT\$220 billion in output.

亞灣智慧科技創新園區除了驅動高雄傳統產業的轉型，並引入高產值的軟體與金融業外，未來更將成為臺灣數位及淨零雙軸轉型的智慧科技重鎮，成為將成功經驗輸出至國際市場的重要跳板。

Asia New Bay Area Smart Technology Innovation Park is becoming Taiwan's hub for software, finance, and smart technology, serving as a springboard for global expansion.

優惠措施招商引資

Investment Incentives

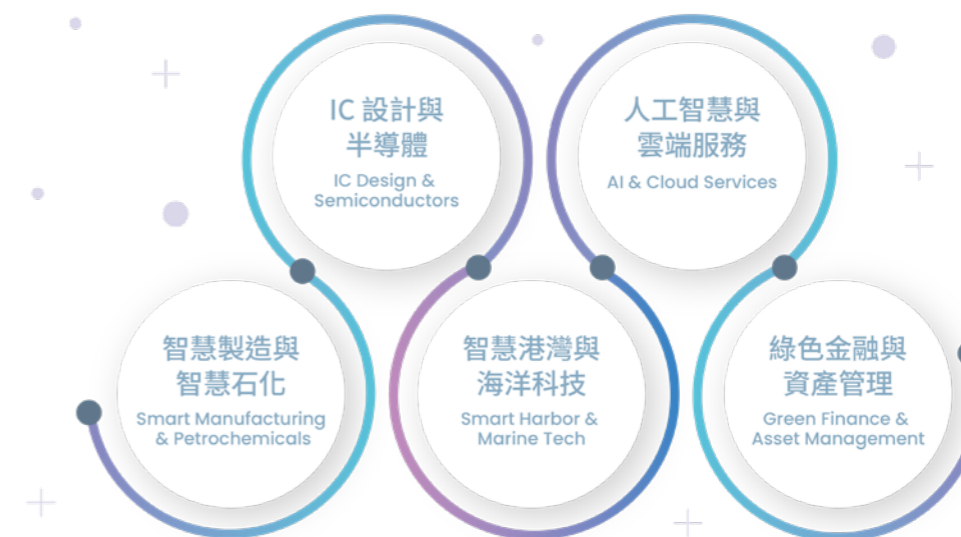
- 高雄市政府提供租金補助 (006688)、融資利息補貼、房屋稅減免及新增雇用薪資補助等配套措施。Kaohsiung City provides rental subsidies (006688), interest rebates, tax reductions, and hiring grants.
- 從亞灣 1.0 到亞灣 2.0，至今已吸引超過 340 家企業於亞灣設立據點，累積吸引約 366 億元投資、創造 851 億元產值，以及逾 6,800 個就業機會。Over 340 enterprises attracted, yielding \$36.6B (TWD) in investment, \$85.1B in output, and 6,800+ jobs.
- 完成多項智慧製造、AR/VR 及 5G 情境實證，推進 IC 設計、智慧港灣、影視科技與金融科技等產業落地。Successful deployment of IC design, smart harbor, and Fintech solutions using 5G and AR/VR.

產業聚落成形

Thriving Ecosystem

- 鴻海與輝達合作打造先進的 AI 算力中心，發展電動車、智慧城市與機器人。Foxconn and NVIDIA are building an advanced AI computing center for EVs and robotics.
- 和碩、友達、仁寶、IBM、思科、中華電信、思愛普、亞馬遜雲端、微軟、高通與緯創等旗艦企業進駐，皆已設立研發基地或全球維運中心。Global Leaders like IBM, Cisco, Amazon AWS, Microsoft, SAP, Qualcomm, and Wistron have established R&D or global operations centers.
- 亞灣新創園提供新創公司辦公空間、研發設備與國際對接機會，吸引超過百家國內外新創團隊加入設點，並鏈結國際加速器。Startup Terrace Kaohsiung hosts 100+ domestic and international startups with access to global accelerators.

亞灣智慧科技創新產業 Core Industry Sectors



高雄新創基地 Startup Hubs in Kaohsiung

驅動數位創新的夢想加速器 A Dream Accelerator Driving Digital Innovation

為推動產業轉型升級並扶植新創團隊發展，高雄市持續營造對新創產業友善的創業環境，包括中央部會、市府團隊、大專院校及民間均投入心力，提供建置營運空間、業務諮詢、人才媒合等服務，鼓勵企業成長，並積極協助對接國際市場。

To drive industrial transformation and support the growth of startups, Kaohsiung has cultivated a founder-friendly ecosystem. Through the collaborative efforts of central and city government, academia, and the private sector, Kaohsiung offers spaces, business consulting, and talent matching to foster enterprise growth and facilitate international market expansion.

高雄市重要新創基地 Key Startup Hubs in Kaohsiung

- DAKUO 高雄市數位內容創意中心** (高雄市政府經濟發展局輔導)
DAKUO (Digital Art Kaohsiung United Office) (Sponsored by Economic Development Bureau, KCG)
 位於鹽埕區公有零售市場，以數位內容與智慧商務為主，101 年成立，是臺灣最早的公營育成機構。
 Located in the Yancheng District Public Market. Established in 2012 as Taiwan's first public incubator, focusing on digital content and smart commerce.
- KO-IN 智高點** (高雄市政府經濟發展局輔導)
KO-IN (Kaohsiung Intelligence Navigator) (Sponsored by Economic Development Bureau, KCG)
 位於新興區財稅行政大樓，以 AIoT、區塊鏈及金融科技為主。
 Located in the Revenue and General Affairs Administration Building. Focuses on AIoT, Blockchain, and Fintech.
- MEGABAY 大港創艦** (高雄市政府經濟發展局輔導)
MEGABAY (Sponsored by Economic Development Bureau, KCG)
 位於高雄 85 大樓，對接亞灣 2.0 計畫，以數位與淨零雙軸轉型為主。
 Located in the Kaohsiung 85 Sky Tower. Aligned with the "Asia New Bay Area 2.0" project, focusing on the dual-axis transition of Digital and Net-Zero initiatives.
- 高雄金融科技創新園區** (高雄市政府經濟發展局輔導)
Kaohsiung Fintech Hub (Sponsored by Economic Development Bureau, KCG)
 位於亞灣宏泰高雄新創大樓，鏈結臺灣碳權交易所、淨零學院等資源，重心以綠色金融科技為主。
 Located in the Hung Tai Plaza (Asia New Bay Area). Integrates resources from the Taiwan Carbon Solution Exchange and Net Zero Institute, with a focus on Green Fintech.
- 駁二共創基地 / 駁二共創 2 號基地** (高雄市政府文化局輔導)
Pier-2 Co-Working Space / Pier-2 Co-Working Space No. 2 (Sponsored by Cultural Affairs Bureau, KCG)
 位於駁二藝術特區，以文創產業為主。
 Located in the Pier-2 Art Center. Focuses on the cultural and creative industries.
- 亞灣新創園** (經濟部輔導)
Startup Terrace Kaohsiung (Sponsored by Ministry of Economic Affairs (MOEA))
 位於高雄軟體園區，以 5G AIoT、數位內容、智慧港灣為主，是南臺灣最大國際新創基地。
 Located in the Kaohsiung Software Park. Focuses on 5G AIoT, digital content, and smart harbors. It is the largest international startup hub in Southern Taiwan.

- 南區物聯網智造基地** (經濟部產業發展署輔導)
Southern IoT Prototyping Hub (Sponsored by Industrial Development Administration, MOEA)
 位於高雄軟體園區，以 AIoT 產品量產導向之專業服務為主。
 Located in the Kaohsiung Software Park. Provides professional services focused on the mass production of AIoT products.
- 南部晶片設計產業推動基地** (經濟部產業發展署輔導)
Southern Taiwan IC Design Center (Sponsored by Industrial Development Administration, MOEA)
 位於高雄軟體園區，以晶片設計領域為主，聚焦打造高階半導體產業聚落。
 Located in the Kaohsiung Software Park. Focuses on the IC design sector to cultivate a high-end semiconductor cluster.

新創育成輔導 Startup Incubation & Mentorship





傳統產業智慧化升級

Smart Transformation of Traditional Industries

以智慧科技提升傳統產業的競爭力

Powering Industrial Competitiveness through Innovation

淨零碳排放與勞動力短缺等現象，讓傳統產業面臨極大的挑戰，高雄是傳統產業重鎮，透過智慧化科技幫助產業轉型升級，成為重要的課題，建構亞灣創新生態系計畫，媒合新創科技團隊提供科技解決方案，公部門在重要關鍵技術給予奧援，都是幫助傳統產業升級，再現競爭力的重要助力。

To counter net-zero pressures and labor shortages, Kaohsiung is revitalizing its industrial core through the Asia New Bay Area Innovation Ecosystem. By matching startups with traditional enterprises and providing public sector technical support, the city is driving a high-tech resurgence in traditional manufacturing.

建構亞灣創新生態系計畫

The Asia New Bay Area Innovation Ecosystem Strategy

- 政府擔任橋樑，促進傳統產業與新創團隊合作，透過概念驗證方式輔導獎勵與顧問團隊 (如 StarFab 加速器、NVIDIA Inception Program) 合作，解決傳產 AI 轉型技術人才與新創團隊缺乏實證場域的痛點，協助傳產導入 AI 應用提升營運效率與風險管理能力，建構永續發展的 AI 產業生態系。

The government bridges the gap between traditional firms and startups. By providing PoC (Proof of Concept) incentives and elite mentorship (e.g., StarFab, NVIDIA Inception), it solves the dual pain points of "talent shortages" for industry and "lack of testing grounds" for startups.

- 高雄市自 2023 年因應全球 AI 發展趨勢，進一步導入國家級算力資源，強化 AI 技術資源。
Since 2023, in response to global AI trends, Kaohsiung has integrated national-level computing resources to strengthen its AI technical infrastructure.



- 2025 天下城市治理卓越獎 | 經濟成長組 (優選)
CommonWealth City Governance Excellence Award | Economic Growth (Excellence Award)
- 2024 全球資訊科技應用傑出貢獻獎 | 傑出新創生態系統獎 首獎
WITSA ICT Excellence Award | Start Up Ecosystem Award

新創 AI 應用案例

AI Startup Application Cases

- 東豐纖維 + 聯覺科技 + 摩絡人工智慧 + 迪威智能 **Tung Feng + UniSymmetry + Moro AI + DWTEK**

紡織品數位孿生及 AI 輔助數位設計 **Textile Digital Twin & AI-Assisted Design**

紡織品數位孿生及 AI 輔助數位設計 **Textile Digital Twin & AI-Assisted Design**

協助 70 年紡織業大廠導入 AI 生成 3D 布料模擬與數位孿生技術，可使 AI 預測布料物性時間，從 1 週縮短至 1 小時，布料建模時間縮短 80%，開發週期減半至 4 個月，樣品製作與運輸成本也分別降低 50% 與 75%。

To help a 70-year textile giant, implementing AI-driven 3D fabric simulation and digital twin technology reduces fabric property prediction time from one week to one hour. Fabric modeling time is cut by 80%, the development cycle is halved to 4 months, and sampling/shipping costs are reduced by 50% and 75% respectively.

- 中鋼碳素 + 詠鋹智能 **CSCC + ChimesAI**

鋼鐵 / 石化業泛用電熱鍋爐 AI 能源最佳化落地 **AI Energy Optimization for Steel/Petrochemical Electric Boilers**

將 AI 演算法導入煤化等工廠的高耗能電熱鍋爐與真空乾燥機，透過模型計算的參數，實際場域驗證可達 28% 的節能效益，則每年約可減少 710 萬元電費及 835.5 噸二氧化碳排放，並能推廣到集團內的其他產線進行數位轉型。

By deploying AI algorithms to high-energy electric boilers and vacuum dryers, field tests demonstrate 28% energy savings. This translates to an annual reduction of NT\$7.1 million in electricity costs and 835.5 tons of CO2 emissions.

CNC 智慧加工戰情室技術平台

CNC Smart Machining Command Center Platform

- 將智慧技術與產業實作結合，高雄市推動 CNC 智慧加工戰情室技術平台，將傳統切削加工轉型為「智慧製造」的核心中樞。它不只是顯示數據的看板，而是結合了 AIoT、邊緣計算、大數據分析與 AI 技術的整合性平台。

Integrating smart technology with industrial practice, this platform transforms traditional machines into a Smart Manufacturing hub. It is an integrated system combining AIoT, Edge Computing, and Big Data analytics rather than a simple data dashboard.

- 透過智慧刀，實現加工數據即時回傳、歷程追溯與設備狀態監控，並具備遠端控制能力，建立可管理、可追溯之智慧加工運作基礎。

Utilizing smart tooling, the platform enables real-time data feedback, historical traceability, and equipment monitoring with remote control capabilities, establishing a manageable foundation for smart machining operations.

- 該平台的技術實作成果包括

Technical Achievements :

- 採用 MQTT 架構將傳輸延遲降至 200ms(0.2 秒) 以下。
MQTT architecture reduces transmission delay to under 200ms(0.2 second).
- 實現 100% 加工歷程可追溯，全紀錄所有加工數據。
Achieves 100% data logging for all machining processes.
- 可針對 80% 關鍵狀態建立預警系統，使決策效能提升達 50%。
Establishes early-warning systems for 80% of critical statuses, boosting decision-making efficiency by 50%.

4 科技淨零 低碳轉型

Tech-Driven Net-Zero: The Low-Carbon Transition



轉機與蛻變

Pivoting Toward Transformation

從鋼鐵石化的工業重鎮邁向淨零減碳的過程中，高雄展現了「不破不立」的轉型決心。身為全臺灣碳排放佔比最高的城市，高雄深知唯有從制度著手，徹底翻修，才能解決根本問題。

從氣候法治出發，高雄領先全國於《氣候變遷因應法》公布後首部地方淨零法規，為城市減碳設立了明確制度與策略，組成產業淨零大聯盟、成立淨零學院、推動城市碳權計畫，支持產業轉型、公部門帶頭減碳、從交通與生活下手等等，讓淨零轉型不只是口號，而是具備專業實踐能力的智慧工程。

化劣勢為優勢，將碳負債轉化為碳資產，同時碳交易所在高雄設立，帶動高雄市綠色經濟的發展，淨零減碳終將成為高雄放眼國際的金字招牌。

Kaohsiung is undergoing a profound transformation, evolving from a traditional heavy industrial hub of steel and petrochemicals into a pioneering leader in decarbonization. Recognizing its position as the city with Taiwan's highest carbon footprint, Kaohsiung has committed to systemic reform, adopting a "transform or perish" mindset to address the root causes of industrial emissions.

Kaohsiung is the first city in Taiwan to enact local net-zero regulations following the Climate Change Response Act that establishes clear strategies for urban carbon reduction. Through the synergy of the Industry Net-Zero Alliance and the Net-Zero Institute, the city is actively empowering industrial restructuring and professional capacity building. This "Smart Engineering" approach extends beyond policy into practice, encompassing public sector leadership in emission cuts and the integration of green initiatives into transportation and daily life.

By hosting the Taiwan Carbon Solution Exchange, Kaohsiung is strategically converting carbon liabilities into valuable assets, driving the growth of a local green economy. Ultimately, this journey from an industrial heartland to a net-zero pioneer will establish Kaohsiung as a premier international benchmark for sustainable development.



前瞻立法與行動，邁向永續淨零目標

Forward-Looking Legislation for Accelerating to Net-Zero

作為一個高汙染、高碳排的城市，高雄市 2022 年領先全國啟動了一系列的淨零減碳行動，率先發布高雄市的淨零路徑及策略，整合公私部門與民眾參與，透過地方自治立法將淨零法制化，並著手培育在地淨零人才，強力推動數位與淨零雙軸轉型，朝向 2050 淨零排放目標邁進。

Once a high-carbon industrial city, Kaohsiung, since 2022, has advanced its net-zero transition through local legislation. By integrating public, private, and civic participation, cultivating local net-zero talent, and driving a Digital x Net-Zero dual transformation, the city is steadily moving toward its 2050 Net-Zero Emissions goal.

高雄淨零減碳行動

Kaohsiung Net-Zero Carbon Reduction Actions



全國首部地方淨零法規

Nation's First Local Net-Zero Regulation

2024 年 6 月 3 日公布施行《高雄市淨零城市發展自治條例》，為國內氣候法後首部地方淨零法規，全條例 26 條，以四大核心引導本市邁向淨零與韌性城市轉型。

Promulgated on June 3, 2024, the Kaohsiung City Self-Government Ordinance for Net-Zero Urban Development is the nation's first local legislation following the Climate Change Response Act. Its 26 articles focus on four core pillars to guide the city toward a net-zero and resilient transformation.

政府淨零治理

Net-Zero Governance

- § 4 制定碳預算：制定本市年度溫室氣體排放上限。
- § 5 編撰淨零白皮書、自願檢視報告、永續報告書：建構淨零政策推動框架並定期檢視執行成果。
- § 9 成立永續推動會：統籌審議淨零議題，協調跨機關及產業推動等配套措施。
- § 4 Carbon Budget: Sets annual caps on greenhouse gas emissions.
- § 5 Monitoring: Publishes Net-Zero White Papers and VLRs to track progress.
- § 9 Sustainability Committee: Coordinates cross-agency policies and industry measures.

產業減碳輔導

Industrial Carbon Reduction Counseling

- § 11 淨零商轉平台：協助產業轉型，促進技術媒合並有效運用補助、計畫與貸款資源。
- § 12 建構高雄碳平台：建立協作機制，鼓勵企業共同投入，落實 ESG 與社會責任。
- § 13 訂定減量方案補助：執行減量方案的事業獎勵或補助。
- § 15 擴大本市碳盤查：擴大列管本市溫室氣體排放源。
- § 16 本市用電大戶須設置再生能源或儲能設備，或購買再生能源電力與憑證。
- § 11 & 12 Business & Carbon Platforms: Matches technology with resources and promotes ESG collaboration.
- § 13 & 15 Incentives & Audits: Provides subsidies for reduction plans and expands emission tracking.
- § 16 RE Requirements: Large power users must install renewable energy, storage, or purchase RECs.

落實公正轉型

Implementing a Just Transition

- § 21 公正轉型輔導與補償機制：提供受淨零轉型影響之族群輔導、獎勵、補償。
- § 23 淨零基金自治條例：推動本市淨零轉型，應成立高雄市淨零排放管理基金。
- § 24 規劃政策淨零預算、綠色金融 (稅捐徵免、融資方案等)。
- § 21 Just Transition: Provides support, incentives, and compensation for affected groups.
- § 23 Net-Zero Fund: Establishes a dedicated fund to manage emission reduction efforts.
- § 24 Green Finance: Implements net-zero budgeting and tax incentives/financing.

民眾生活參與

Public Participation

- § 17 搭乘大眾運輸獎勵：研擬鼓勵員工搭乘大眾運輸措施，達標者可獲獎勵。
- § 18 公務車、客運電動化或低碳化。
- § 19 都市規劃、開發等須考量減碳、調適等面向。
- § 20 淨零示範區：由市府優先由建築、交通、能源等面向推動淨零轉型，形塑具示範性的淨零發展模式。
- § 22 社區評鑑納入減碳觀念、生活轉型補助。
- § 17 & 18 Green Transport: Incentives for public transit and electrification of public/bus fleets.
- § 19 & 20 Smart Planning: Integrates carbon reduction and climate adaptation into urban design and creates Net-Zero Demo Zones.
- § 22 Community Engagement: Includes carbon reduction in community evaluations and lifestyle subsidies.

產業轉型，為企業創造永續競爭力

Industrial Transformation for Sustainable Competitive Advantage

高雄市推動淨零永續，在產業轉型上，透過「產業淨零大聯盟」發揮以大帶小效益，帶動產業鏈技術升級；結合政府助攻，提供轉型資源，強化企業競爭力。在循環經濟方面，推動焚化再生粒料多元再利用與畜牧永續循環，創造減碳新動能，落實資源循環，建構低碳永續城市。

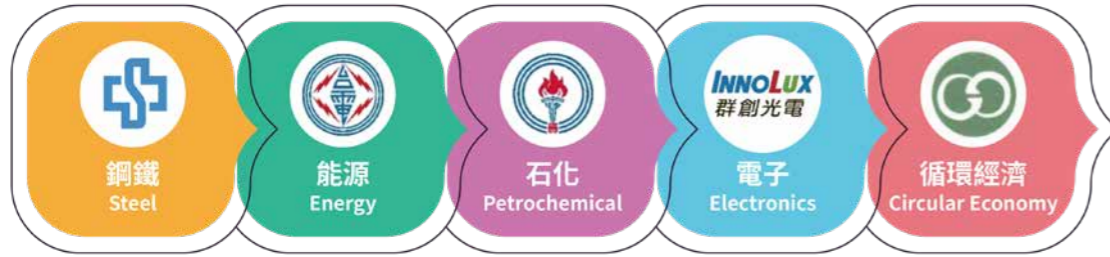
Kaohsiung advances its net-zero goals through industrial transformation by leveraging the "Industry Net-Zero Alliance" to drive supply-chain upgrades. In terms of circular economy, the city promotes the reuse of incineration recycled aggregates and of farm/animal wastes, to build a low-carbon circular city.

產業淨零大聯盟，以大帶小

Industry Net-Zero Alliance: Leading the Way

2022年6月成立高雄產業淨零大聯盟，涵蓋五大產業，由龍頭企業分享減碳技術與經驗，帶動供應鏈的中小企業執行碳盤查與減量，開發綠能、氫能及碳捕捉技術，將壓力轉化為競爭力，打造永續供應鏈生態圈。

Established in June 2022, Kaohsiung Industry Net-Zero Alliance brings together five major industries. Led by anchor companies, it shares decarbonization technologies and experience to support SMEs in carbon accounting and reduction. At the same time, it advances green energy, hydrogen, and carbon capture, turning pressure into competitiveness and building a sustainable supply-chain ecosystem.



政府助攻，協助產業轉型

Government Support for Industrial Transformation

產業轉型的關鍵時刻，高雄市政府透過政策引導與資源整合，成立輔導團隊，為產業排憂解難，輔導團的強力助攻，不僅降低了企業投入減碳的門檻與風險，更協助在地產業化危機為轉機。

At a critical moment, Kaohsiung City Government provides policy guidance and integrated resources through advisory teams, lowering decarbonization risks and costs while helping local industries turn challenges into new opportunities.

自主減量輔導團

Voluntary Reduction Counseling Team

完成 **20** 家企業輔導，總減碳量約 **82** 萬噸
20 Companies Guided; **820,000** Tons of CO₂ Reduced.

節能減碳輔導團

Energy Saving and Carbon Reduction Counseling Team

累積輔導 **75** 件，總減碳量約 **8.3** 萬公噸
75 Guided Cases; **83,000** Tons of CO₂ Reduced.

碳盤查輔導團

Carbon Inventory Guidance Team

累積輔導 **83** 家次
83 Companies Guided.

焚化再生粒料，多元再利用

Diversified Reuse of Incineration Recycled Aggregates

高雄市每年焚化垃圾約產生 18 至 20 萬公噸底渣，透過資源化技術轉製為焚化再生粒料，取代部分天然建材，降低資源開採需求。2024 年高雄市焚化再生粒料再利用量達 18 萬公噸，減碳效益達 2,462 公噸，成效卓著，並且第六度獲得環境部環境管理署焚化再生粒料再利用管理評鑑殊榮。

Kaohsiung annually processes 180,000–200,000 tons of incineration bottom ash into Recycled Aggregates, replacing natural materials to reduce extraction. In 2024, 180,000 tons were reused, cutting carbon by 2,462 tons. This achievement earned the city the 'Excellence' award from the Ministry of Environment for the sixth consecutive year.

2024 年底高雄啟用全國處理量最大的公有焚化底渣處理廠，年處理量可達 23 萬公噸。並將再生粒料導入各項公共建設，替代天然砂石，廣泛應用於道路鋪設、基地回填、控制性低強度回填材料等多種工程，希望做到循環經濟及垃圾零廢棄目標。

The city also launched the nation's largest public bottom-ash treatment plant in 2024, applying recycled aggregates in public works to advance a circular, zero-waste economy.



畜牧永續循環，減碳新畜力

Sustainable Livestock Circularity and Decarbonization

輔導民營畜牧場取得生質能再生能源憑證（綠電憑證），以及碳足跡與減碳標章，展現高雄畜牧循環與減碳實踐成果。

Kaohsiung supports private livestock farms in obtaining green energy certificates and carbon labels, showcasing circular and low-carbon practices.

- ◆ 糞尿資源化，減臭又減碳
- ◆ 擴大示範應用，落實循環農業
- ◆ 持續推廣果菜園使用國產有機質禽畜糞肥
- ◆ 強化示範推廣與媒合機制
- ◆ converting manure into resources
- ◆ expanding pilot applications & Circular Farming
- ◆ promoting organic manure use
- ◆ strengthening demonstration and matchmaking mechanisms



能源轉型，實踐生態永續的低碳社會

Energy Transition: Driving a Sustainable Low-Carbon Society

綠能光電 6 年 1.25GW 計畫

6-Year 1.25 GW Green Power Solar PV Initiative

「高雄市綠電推動專案小組」在 2020 年成立，透過跨局處協作，訂定 2021 至 2026 年「6 年 1.25 GW」的太陽光電建置目標，並在創能、節能、儲能三大面向取得了顯著進展，至 2025 年累計裝置量超過 1,500 MW。

The Kaohsiung Green Power Task Force, established in 2020, leads a cross-departmental strategy to reach 1.25 GW of solar capacity by 2026. Through innovations in generation, conservation, and storage, the city has already achieved a cumulative total of 1,500 MW.

三大面向與五大任務

Three Major Dimensions and Five Tasks



綠能光電建置成果

Key Achievements

- 2021-2025 年太陽光電備案容量，超越原訂目標 **1.18 倍**，案件數超過 **7,500 件**。
Target Surpassed: 2021-2025 power capacity exceeded goals by **118%** with **7,500+** cases.
- 公有市場屋頂已設置光電 **18 處**，年發電量約 **357 萬度**。
Public Markets: **18** solar roof sites installed, generating **3.57** million kWh annually.
- 中興、武廟、甲仙、六龜及杉林大愛中心獲「2020 年城市工程品質金質獎」及「光電智慧建築標章」。
Award-Winning: Key sites (Zhongxing, Wumiao, etc.) earned the 2020 Urban Engineering Gold Award and Solar Intelligence Building Labels.
- 市府轄下產業園區太陽光電建置，總裝置容量約 **62 MW**，展現產業參與綠能成效。
Industrial Impact: **62** MW installed in industrial parks, showcasing strong private sector participation.

汽電共生脫煤

Phasing Out Coal in Cogeneration

高雄市汽電共生廠自 2020 年加入「脫煤者聯盟」，啟動轄內電力與汽電機組減煤計畫，要求 15 座燃煤汽電鍋爐逐步脫煤，全數業者投入改善計畫，總投資約 98 億元，已有兩家業者提前完成脫煤目標。

Since joining the "Powering Past Coal Alliance" in 2020, Kaohsiung has pushed 15 co-generation boilers to phase out coal. With a total investment of NT\$9.8 billion, all operators have launched improvement plans, and two have already reached their coal-free targets ahead of schedule.

政府四大協助

Four Government Supports



減煤成果

Key Results

- 辦理 **21** 場汽電共生鍋爐管控與技術研商會議，協助業者減煤。
Technical Support: Held **21** technical seminars to assist industries in coal reduction.
- 業者投入改善計畫，迄今總減煤量約 **222 萬噸**，減碳量約 **252.6 萬噸**。
Impactful Reduction: Total coal consumption reduced by **2.22** million tons, cutting CO₂ emissions by **2.526** million tons.

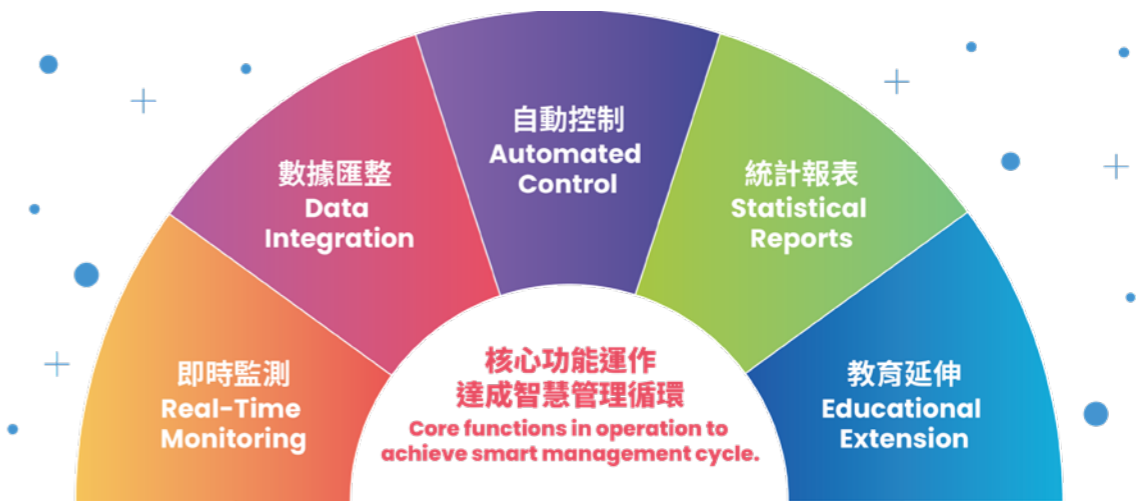
校園能源管理系統

Campus Energy Management System (EMS)

落實班班有冷氣政策並兼顧節能目標，高雄市公立三級學校全面建置校園能源管理系統，透過數位化監控與自動需量反應機制，提升學校用電效率，節省電費，並將能源數據轉化為環境教育素材，落實校園淨零生活。

To balance the "Air Conditioning in Every Classroom" policy with energy goals, Kaohsiung has deployed EMS across all public schools.

- Smart Efficiency:** Uses digital monitoring and Automated Demand Response (ADR) to optimize power usage and reduce costs.
- Eco-Education:** Transforms real-time energy data into teaching materials, integrating Net-Zero values into campus life.



生活轉型，成就健康友善的低碳未來

Lifestyle Transition: A Healthy Low-Carbon Future

高雄淨零厝及智慧建築推廣計畫

Kaohsiung LOHAS Net-Zero & Smart Building Initiative

高雄市於 2025 年正式通過全國首個「城市碳預算」，將高雄厝納入重要的減碳路徑中，並轉型為「淨零厝」，將原本的建築綠化，進化為淨零減碳、智慧防災、能源自主的永續住宅。同時，透過建築管理智慧雲平台，收集建築物的水與電形成大數據，進行智慧監測。

In 2025, Kaohsiung passed Taiwan's first "Urban Carbon Budget," incorporating LOHAS project as a key decarbonization path. LOHAS is then evolving into "LOHAS Net-Zero"—sustainable residences focused on zero-carbon emissions, smart disaster prevention, and energy autonomy. Through a Smart Building Cloud Platform, the city monitors water and electricity big data to optimize efficiency.

高雄厝的設計圍繞著環境永續、反映在地自明性及居住健康三大核心，並落實四大指標領域及十項設計原則。

Kaohsiung LOHAS Net-Zero Design Philosophy: Three Cores, Four Indicators and Ten Design Principles.

三大核心 x 四大指標領域 x 十項設計原則

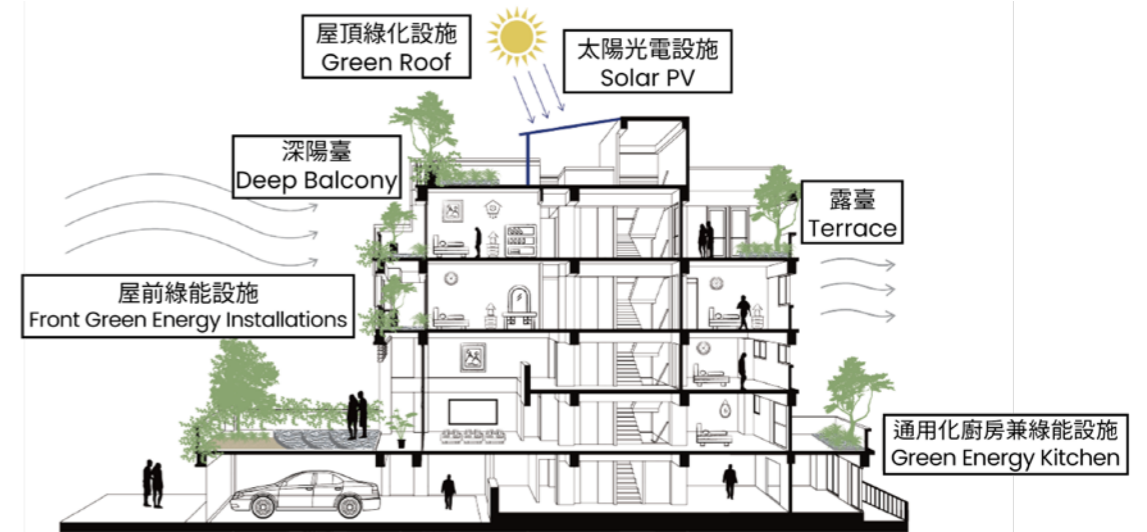
Three Cores x Four Indicators x 10 Design Principles



- | | |
|------------------------------|-------------------------------|
| 01 雨水貯集 Rainwater Harvesting | 06 創造埕空間 Open Courtyards |
| 02 深遮陽 Deep Shading | 07 通用設計 Universal Design |
| 03 綠能屋頂 Green Energy Roofs | 08 合宜空間機能 Functional Space |
| 04 在地材料應用 Local Materials | 09 環保建材 Eco-Materials |
| 05 融入場域意象 Site Context | 10 有效通風開口 Natural Ventilation |

高雄厝的特色在於立體綠化，將綠意從平面帶向高空。首創 3 米深陽台與降板植栽設計，創造垂直森林效果，不僅美化市容，也緩解了都市熱島效應，成為高雄市花園城市的重要推手。深陽台與屋頂綠化能有效降低建築物熱環境負荷，減少室內空調電力使用，直接達成家庭端的節能減碳。

A signature feature of LOHAS is the 3-meter deep balconies with recessed planters. This "Vertical Forest" design beautifies the city while mitigating the Urban Heat Island Effect. Deep shading and rooftop greenery significantly reduce thermal loads and indoor cooling demands, achieving energy savings at the household level.



自 2011 年推行至今，高雄厝每年為高雄減碳 42 萬噸，並節約 2.3 億噸水資源。結合淨零轉型目標，升級為淨零厝，希望能為大都會城市提供淨零轉型的範例。

Since 2011, the project has reduced 420,000 tons of carbon and saved 230 million tons of water annually. Now upgraded to "LOHAS Net-Zero," this model serves as a global benchmark for metropolitan decarbonization.

高雄淨零厝智慧建築資訊網

LOHAS Net-Zero & Smart Building Information Portal

幫助民眾與建築相關業者透過網站快速掌握高雄厝計畫，展示歷年成果並結合地圖資訊，以及建築與補助案件的分布，希望鼓勵更多家庭與社區導入智慧節能設計，累積全市節能減碳效益。同時，帶動在地智慧家居與建築服務產業發展，推動高雄智慧淨零轉型的良性循環。

This platform allows citizens and developers to track subsidies and project distributions via map-based data. It encourages the adoption of smart energy-saving designs, fostering a "virtuous cycle" for the local smart home and green building industries.



社會轉型，實踐環境正義與共好生活

Social Transition: Environmental Justice & Shared Prosperity

淨零學院 - 綠領人才培育

Net Zero Institute : Cultivating Green Talent

解決產官學界淨零轉型中的人才荒，高雄市於 2023 年成立淨零學院，這是全國首創由地方政府設立的減碳人才培育基地，邀集淨零 7 大領域、在地企業共 69 位產官學研專家，並結合 18 所大學及 5 家國際查驗機構合作，推動通識、證照、實廠交流與公共講堂課程。成立至今，人才培訓累計 7,300 人次、核發 2,500 張證書。

To bridge the talent gap in the net-zero transition, Kaohsiung established the nation's first government-led Net Zero Institute in 2023. Partnering with 18 universities, 5 international verification bodies, and 69 experts, the academy provides professional certification and practical training. To date, it has trained 7,300 participants and issued 2,500 certificates.



2024 國家永續發展獎 | 政府機關類
National Sustainable Development Award | Government Agencies

三大核心目標 Three Core Objectives



公正轉型—兼顧淨零目標與社會公平

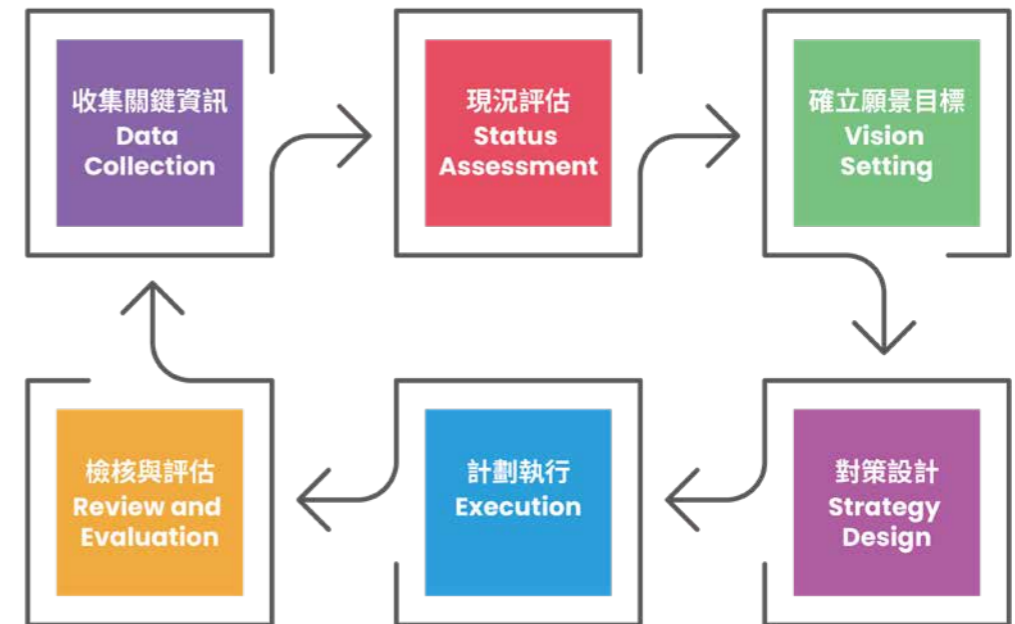
Just Transition — Balancing Net-Zero with Social Equity

高雄市作為工業城市，在淨零轉型過程中，首重「尊嚴勞動」與「社會公平」，透過法制化程序，確保在產業升級與能源轉型的路徑上，脆弱族群、受衝擊產業勞工的權益得到充分保障與參與。

As an industrial hub, Kaohsiung prioritizes "Decent Work" and "Social Equity" in its net-zero journey. Through legalized procedures, the city ensures that vulnerable groups and workers in impacted industries are protected and involved in the energy transition.

- 地方首創將公正轉型入法，納入《高雄市淨零城市發展自治條例》中，明定政府應盤點可能受衝擊之熱區、產業，並導入市民參與。
First in the nation, Kaohsiung has codified "Just Transition" into law, the Kaohsiung City Net-Zero Urban Development Autonomy Ordinance. It mandates the government to identify "hotspots" and industries likely to be affected and facilitate citizen participation.
- 制定全國首個地方層級公正轉型對策指引，提供第一線承辦同仁規劃公正轉型策略工具。
Developing the nation's first local-level "Just Transition Strategic Guidelines" to provide frontline officials with tools for planning just transition strategies.
- 辦理公正轉型能力建構課程及工作坊，培力精進同仁公正轉型方面的本識學能。
Organizing capacity-building courses and workshops on Just Transition to empower and refine the professional knowledge of officials in this field.

落實公正轉型，執行淨零計畫時須遵循以下標準作業程序 Following SOP for Implementation



綠色經濟，為淨零減碳城市點石為金

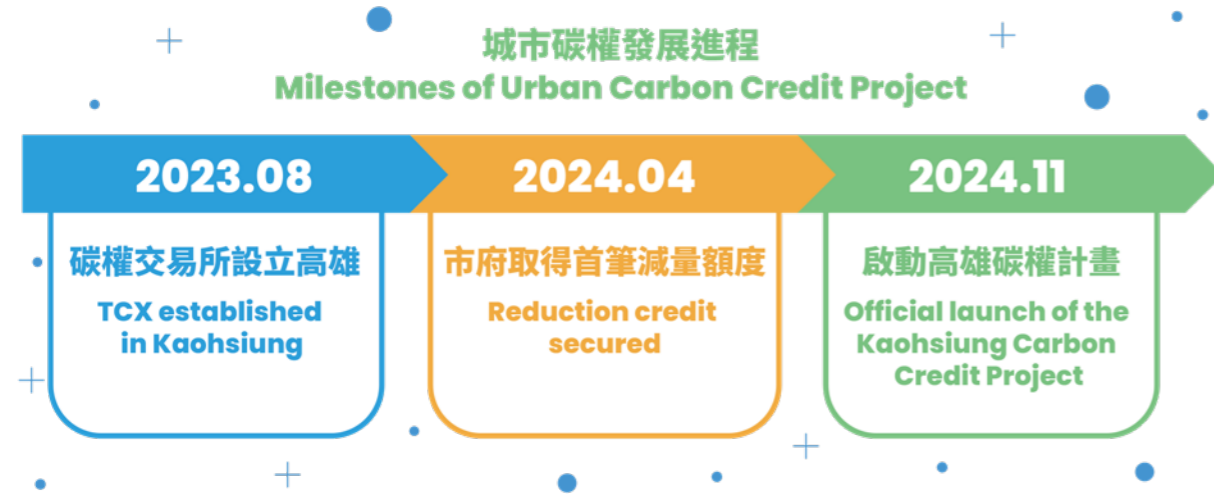
Green Economy: Turning Carbon into Capital

城市碳權計畫 碳負擔成為碳資產

Urban Carbon Credit Project : Carbon into Capital

高碳排產業 2026 年開始繳納碳費，企業可透過自主減量與減量額度抵繳降低負擔。高雄作為全國排碳重鎮，積極化「碳負擔」為「碳資產」，自 2023 年成功爭取碳權交易所落腳高雄，並與清華大學合作推動碳權主軸計畫，將城市視為大型碳礦，系統性開發減碳潛力，創造減碳績效與綠色商機。

As carbon fees begin in 2026, Kaohsiung is turning "carbon burden" into "assets." Since securing the Taiwan Carbon Solution Exchange (TCX) in 2023, the city has partnered with National Tsing Hua University to systematically develop carbon credits from urban resources, creating new green business opportunities.



高雄碳權計畫 目前有 10 件申請中。

Voluntary Reduction

- 內門畜牧廢水沼氣回收、民生醫院冰水主機汰換、前鎮及各漁港路燈汰換，均已送環境部審核「國內自願減量專案」，預計年減碳量超過 1,700 噸。
- 旗美污水處理廠、中區汙水處理廠完成「碳中和」宣告。
10 projects are currently seeking MoEnv approval (including livestock biogas recovery and LED streetlighting), with an expected annual reduction of 1,700+ tons of CO₂.

放眼國際碳權布局

Global Layout

- 2024 年與充電樁業者合作，整合公有 70 槍、民間 500 槍電動車充電樁，以充電樁替代汽機車燃油，將充電紀錄換算行駛里程，估減碳 64 萬噸 / 21 年，向國際核證碳標準 (Verra) 提出申請。這是高雄市府首例國際碳權專案。
In 2024, the city integrated 570 public and private EV charging piles. By converting charging data into fuel-replacement mileage, the project expects to cut 640,000 tons of carbon over 21 years. This application to Verra marks Kaohsiung's first international carbon credit project.

綠色金融發展，成為淨零轉型加速器

Green Finance: Accelerating the Transition

讓減碳行為不再只是增加成本，而是透過金融槓桿中的利息降低與資產增值，來獎勵民間的減碳行動，成為企業爭取低利資金與提升品牌價值的重要機會。高雄在綠色金融的發展上，是透過政府發債、產業融資、新創育成三箭齊發，讓企業推動淨零轉型無後顧之憂。

Kaohsiung uses financial levers—lower interest rates and asset appreciation—to reward decarbonization through a three-pronged approach.

全國首檔政府綠色債券 加速淨零投資

Government Green Bonds

- 結合民間投資，辦理捷運既有借款舉新還舊，取代捷運紅橘線計畫既有借款利率，節省利息 30%。
The nation's first government green bond for the Kaohsiung MRT reduced interest costs by 30%.



- 2025** Taiwan SIA 台灣永續投資獎 | 銀獎
Taiwan Sustainable Investment Awards, TWSIA | Silver Award
- 2024** 天下城市治理卓越獎 | 經濟成長組開創獎
City of Excellence | Economic Growth Innovation Award

全臺首個示範專區 亞洲資產管理中心高雄專區

Asia Asset Management Center (Kaohsiung Zone)

- 預計 2 年鬆綁 54 項法規，以高雄為首處示範場域，結合產業優勢，推動創新與金融服務整合，打造具臺灣特色的金融生態聚落。
Plan to deregulate 54 laws within 2 years, establishing Kaohsiung as the premier pilot site for green finance. By integrating industry strengths with financial services, we aim to build a unique financial cluster for Taiwan.

南臺灣首座 高雄金融科技創新園區

FinTech Space Kaohsiung

- 以綠色金融科技為主軸，串聯新創能量與在地產業，推動淨零永續與數位轉型，鏈結產學研，提供金融新創領域發展育成輔導、人才培育、跨域創新實證與綠色金融課程。
Centered on Green Fintech, we bridge startups with local industries to drive net-zero and digital transformation. By linking industry, academia, and research, we provide a robust ecosystem for incubation, talent cultivation, cross-domain pilots, and green finance training.



高雄市智慧城市推動委員會

Kaohsiung Smart City Steering Committee



奉獻與成就

Dedication & Milestones

為推動智慧城市發展，致力打造高雄市政智慧化服務，帶動在地產業升級，促進城市永續發展，109年12月高雄市成立智慧城市推動委員會，由市長陳其邁擔任召集人，委員與顧問任期二年，至今已歷經三屆，成員主要來自產、官、學、研，以及市政府團隊。

有重量級學者、國際大廠與本土科技龍頭的加持，委員會好似高雄數位與淨零雙軸轉型的加速器。他們不僅提供專業諮詢，更引進實質技術、產業資源與國際視野，協助將高雄成功經驗推向國際，提升高雄的全球能見度。五年以來，今日的高雄，已躍升為國內智慧城市發展的標竿典範。

To drive smart city evolution, optimize digital public services, and catalyze industrial upgrades for sustainable development, Kaohsiung established the Smart City Steering Committee in December 2020. Chaired by Mayor Chen Chi-mai, the committee brings together elite experts from industry, government, academia, and research institutions.

With the backing of prominent scholars, international tech giants, and local industry leaders, the committee acts as a powerful accelerator for Kaohsiung's "Dual Transformation"—Digital and Net-Zero. Beyond professional consultancy, members provide essential technical resources and a global perspective, helping to export Kaohsiung's success stories to the world. Over the past five years, Kaohsiung has transformed itself into a national benchmark and a global model for smart city development.

感謝歷年來產官學研各領域委員對高雄的指導，共同擘劃高雄轉型的新願景，為市民打造更宜居的城市空間。

We sincerely thank the committee members and advisors from academia, industry, and government for their guidance over the years. Together, we have mapped out a new vision for Kaohsiung's transformation, creating a more livable urban space for all citizens.

府內委員 Internal Committees

本名單依 2026 年 2 月 11 日當時資料彙整
This list is compiled based on information available as of February 11, 2026.

陳其邁 Chi-Mai Chen	高雄市政府 Kaohsiung City Government	市長 Mayor
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6 城市華麗轉身與全球布局

The Grand Metamorphosis and Global Layout



智慧與創新

Wisdom and Innovation

高雄，這座曾經以煙囪林立、重工業為經濟命脈的鋼鐵之都，面對全球數位浪潮與氣候變遷的雙重考驗，高雄不僅沒有在傳統產業的框架中徘徊脫隊，反而啟動了一場跨越產業框架、城市治理與民生福祉的全方位進化，展現了驚人的治理韌性。

透過政策前瞻引導與科技根植，高雄成功將過去的工業包袱轉化為永續發展的珍貴資產。今日的高雄，立足台灣，以智慧 AI 與綠能經濟為雙翼，正向世界提出極具價值的「高雄方案」。

Kaohsiung, once a "Steel City" defined by industrial chimneys and heavy manufacturing, faced the dual challenges of the global digital tide and climate change. Rather than falling behind by sitting within traditional frameworks, Kaohsiung launched a comprehensive evolution spanning industry, urban governance, and citizen well-being, demonstrating remarkable governance resilience. Through forward-looking policies and deep-rooted technology, Kaohsiung has successfully transformed its industrial legacy into precious assets for sustainable development. Today, Kaohsiung stands tall in Taiwan, utilizing Smart AI and the Green Economy as twin wings to present the high-value "Kaohsiung Solution" to the world.



主權 AI 數位應用

高雄數位轉型的核心方針，在於建立具備自主性、安全性與在地性的「城市主權 AI 治理大腦」。以 5G AIoT 的基礎建設，將城市運作的動態資訊數位化，並利用人工智慧技術進行即時監測與決策優化。

高雄推動的「主權 AI 燈塔計畫」，係與 NVIDIA、鴻海等國際科技巨頭深度合作，建立專屬南台灣語境與環境數據的 AI 模型。這不僅確保了數據主權的安全性，更以智慧應用精準對應市民的需求，包括在精準醫療與長照關懷、市政服務與公共安全、交通與生活環境品質等。

從數位應用到數位轉型，高雄透過數據與技術，將枯燥的數位科技轉化為市民有感知的溫暖服務，體現以市民需求與環境品質為本的核心價值。

淨零減碳 產業新機

對於擁有鋼鐵、石化等高耗能產業背景的高雄而言，淨零轉型不僅是環保議題，更是一場關乎高雄諸多產業的生存與競爭。高雄於《氣候變遷因應法》公布後，率全國之先通過《淨零城市發展自治條例》，設定公部門與大型企業的碳排放額度。媒合企業與新創產業合作，透過創新技術為企業解決碳排問題，兼顧環保與企業產能。

為確保轉型過程中不遺落任何人，高雄成立了全台首座「淨零學院」。作為人才孵化器，學院提供國際級碳管理證照課程，為產官學界儲備專業技術人才。這種由法規引導、技術支援與人才培育交織而成的架構，為企業轉型提供紮實的專業支撐，讓低碳轉型成為驅動產業升級的新動力。

Sovereign AI and Digital Applications

The core strategy of Kaohsiung's digital transformation lies in building an autonomous, secure, and localized "Urban Sovereign AI Governance Brain." Leveraging 5G AIoT infrastructure, the city digitizes dynamic operational information and utilizes AI for real-time monitoring to optimize decision-making. The "Sovereign AI Lighthouse Project," in close collaboration with global tech giants like NVIDIA and Foxconn, has developed AI models tailored to Southern Taiwan's linguistic context and environmental data. This ensures data sovereignty while precisely addressing citizen needs, including precision medicine, long-term care, public safety, and environmental quality.

Net-Zero & New Industrial Opportunities

For an industrial city, net-zero transformation is a matter of survival. After the Climate Change Response Act was announced, Kaohsiung led the nation in passing the Kaohsiung City Self-Government Ordinance for Net-Zero Urban Development, setting emission quotas and matching enterprises with startups to solve carbon issues through innovation. To ensure no one is left behind, the "Net Zero Institute" serves as a talent incubator, providing participants with international carbon management certifications. This framework of regulations, technology, and talent cultivation builds the professional backbone for enterprises to turn low-carbon transition into a new driver for industrial upgrading.



亞灣計畫 高雄轉型

亞洲新灣區是高雄轉型的窗口，中央政府大力投資，將這片圍繞高雄港的空地，打造成 5G AIoT 與淨零科技的戰略高地，更成為許多創新科技的高階實驗場域，對全球企業發出磁吸引力，從亞灣 1.0 到 2.0 計畫，已吸引了超過百家企業進駐，包括軟體開發、系統整合及研發中心。

台灣半導體產業世界第一，亞灣作為串聯南臺灣半導體 S 廊帶的樞紐，台積電先進製程在高雄設廠，國際大廠紛紛進駐亞灣成立研發總部，帶動了上中下游產業鏈的群聚效應，更多優秀的 AI 數位與新創人才的加入，直接強化高雄參與國際市場競爭中的軟、硬實力。

高雄實證 國際輸出

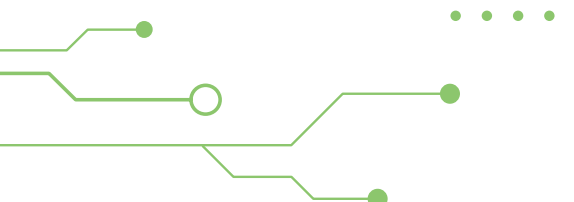
高雄的願景不僅止於地方治理的成功，更在於成為全球智慧城市方案的優質供應商。高雄具備高溫環境、大型港口，以及傳統重工業亟需轉型的特質，這些痛點與許多東南亞及南方城市的發展背景高度相似。

這份「相似性」具有極高的複製與輸出價值。高雄作為國家南向政策的重要戰略基地，積極將其智慧醫療、智慧交通、智慧水利治理及 5D 數位孿生平台的成效輸出國際，「高雄方案」正向全球展示高雄的智慧實證成果。

以人為本 永續城市

智慧城市不應只是冰冷的數據堆疊，而是為市民創造一個安居樂業的生活空間。高雄市政府透過跨局處的體系整合與產官學研的公私協力，將前瞻思維轉化為具體的政績，讓市民有感。

高雄市民能感受，也見證了高雄的華麗轉身，高雄能透過數位與綠色轉型的雙軌推進，重建城市競爭力，如今不僅走在台灣智慧城市發展的前沿，也正邁向 AI 智慧的國際舞台。



Asia New Bay Area: The Engine of Transformation

The Asia New Bay Area (Yawan) is the window to Kaohsiung's transformation. Strategic investment has turned this waterfront into a high-end testing ground for 5G AIoT and net-zero tech. From Yawan 1.0 to 2.0, over a hundred companies, including software developers, system integrators, and R&D centers, have established a presence. As a hub connecting Southern Taiwan's "S-Semiconductor Corridor," Yawan facilitates a powerful clustering effect. With TSMC's advanced processes at work in Kaohsiung and international giants establishing R&D headquarters, the influx of digital and startup talent directly strengthens Kaohsiung's competitiveness in the global market.

Kaohsiung Proven: International Export

Kaohsiung aims to be a premium supplier of global smart city solutions. Its unique characteristics—a major port, high-temperature environment, and heavy industry transition—mirror the challenges faced by many cities in Southeast Asia and the Global South. This "similarity" offers high replication value. As a strategic base for the New Southbound Policy, Kaohsiung exports its successes in smart medicine, transportation, water management, and 5D Digital Twin platforms. The "Kaohsiung Solution" is now showcasing its proven excellency to the world.

People-Centered Sustainable City

A smart city is not just a stack of cold data; it is a space where citizens live and thrive. Through cross-departmental integration and public-private partnerships, Kaohsiung has translated forward-thinking into concrete achievements that citizens can feel. Kaohsiung has completed its grand metamorphosis. By advancing on the dual tracks of digital and green transformation, the city has rebuilt its competitiveness. Today, Kaohsiung stands at the forefront of Taiwan's smart development and is stepping confidently onto the international AI stage.

AI 登高，智慧領雄 | 高雄數位轉型進行式

AI ASCENDING: LEADING THE SMART ERA

Empowering Kaohsiung's Digital Transformation

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