機電署與警務處合作研發的「無人機智能眼鏡系統」，在發明展上備受關注。
The AI Visual Intelligence-enabled Glasses for Drone Operations, a collaboration between the EMSD and the HKPF, attracted much attention at the exhibition.

與警務處合作的項目奪銅

機電署與香港警務處（警務處）合作研發的「無人機智能眼鏡系統」獲得銅獎。該系統把無人機收集所得的數據，與實時飛行資訊和人工智能分析結果整合，再傳送到智能眼鏡上顯示。戴上智能眼鏡的操作人員，在操控無人機時仍能保持與周圍環境的感知。該系統也配備專用網上平台，為工作團隊提供實時資訊（例如熱力圖分析、人流統計），有效支援大型活動的人羣管理工作。

除上述項目外，機電署研發的「人工智能與光纖技術在區域供冷／供暖系統的應用」也奪得評審團嘉許金獎，而「控制和監測現場設備的無線連接系統」、「纜視通：基於人工智能的經濟高效電梯纜索缺陷檢測解決方案」和「拖纜狀況人工智能監測系統」均取得金獎。

機電署與客戶部門秉持共同理念，持續推動創新方案以提升工作效率和優化設備，碩果纍纍。我們會繼續連繫客戶、業界、合作伙伴等持份者，促進多方創新協作，攜手推動智慧城市發展，服務社會大眾。

Collaborative Project with the HKPF Won Bronze Medal

The AI Visual Intelligence-enabled Glasses for Drone Operations jointly developed by the EMSD and the Hong Kong Police Force (HKPF) received a bronze medal. The system integrates data collected by drones with real-time flight information and artificial intelligence (AI) analysis, then projects the consolidated data onto the smart glasses. Operators wearing the smart glasses can maintain situational awareness of their surroundings while controlling the drones. The system also features a dedicated online platform that delivers real-time information such as heat map analysis and footfall to the working team, providing effective support on crowd management at large-scale events.

Apart from the above projects, the Integration of AI and Optical Fiber Technology for District Cooling/Heating System Plants developed by the EMSD won a gold medal with the congratulations of jury, while the System of Wireless Connection to Field Equipment for Control and Monitoring, RopeVision: Cost effective solution to detect lift rope defects using AI and Hauling Rope AI Condition Monitoring System received gold medals.

With a shared vision on continued promotion of the application of innovative solutions to enhance work efficiency and optimise equipment performance, the EMSD and its client departments have achieved impressive results. EMSD will continue to connect with stakeholders including clients, the trade and partners to foster innovative collaboration, work together to drive smart city development and serve the public.
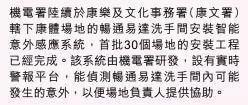
機電3.0 智能機電

如欲了解營運基金第三個五年策略計劃的詳情，請瀏覽專題網頁（http://5yearplan.emsd.gov.hk），並訂閱電子通訊以獲取最新消息。
For details about the EMSTF's third Five-year Strategic Plan, please visit the thematic website at http://5yearplan.emsd.gov.hk and subscribe to our e-newsletter for updates.

智能意外感應系統守護公眾安全
Intelligent Fall Detection System to Safeguard Public Safety

機電署為康文署轄下康體場地的暢通易達洗手間安裝智能意外感應系統，提升洗手間使用者的安全。
The EMSD installs the Intelligent Fall Detection System in accessible unisex toilets at LCSD's recreation and sports venues, aiming to enhance user safety.

機電署陸續於康樂及文化事務署（康文署）轄下康體場地的暢通易達洗手間安裝智能意外感應系統，首批30個場地的安裝工程已經完成。該系統由機電署研發，設有實時警報平台，能偵測暢通易達洗手間內可能發生的意外，以便場地負責人提供協助。

該系統利用光學雷達技術感應人體活動，配合人工智能模型分析和識別不同跌倒姿勢、長時間靜止或長時間佔用洗手間的情況，並提供語音辨識求助功能。為保障使用者的安全和私隱，系統不含攝錄鏡頭，不會攝錄任何影像。康文署已申請為18區相關設施安裝該系統，守護公眾安全。

The EMSD continues to install the Intelligent Fall Detection System in accessible unisex toilets at recreation and sports venues under the Leisure and Cultural Services Department (LCSD). Installation for the initial 30 venues has been completed. Developed by the EMSD, the system provides a real-time alert platform to detect potential accidents within the accessible unisex toilets, thereby notifying resident staff to provide immediate assistance.

The system utilises Light Detection and Ranging (LiDAR) technology to detect human activity in conjunction with AI models to analyse and distinguish various postures associated with falls, extended instances of no movement and prolonged toilet occupancy. It also features voice recognition that allows users to request assistance verbally. To uphold user safety and privacy, the system operates without camera and image recording. In order to safeguard public safety, the LCSD has proposed to extend the system installation to relevant facilities across 18 districts.