



TECHNOVATION

## 衛晉可持續發展方案

# GF Technovation Sustainability Solutions

善用科技實現ESG理念 打造可持續發展社區

Attain ESG goals to build a sustainable society with technology



智能廢物/自動分類回收箱

Smart Waste / Auto-sorting Recycling Bin



智能洗手間管理系統

Smart Toilet System



智能工業安全警報系統

Smart Safety Monitoring System



為達致可持續發展，各國皆推出有關 ESG 的法規和政策，同時消費者及投資者亦逐漸關注此議題，故此，企業及公司必須盡早迎合這大趨勢，在環保、社會責任及企業管治上加緊實行可持續發展政策，而衛晉提倡利用科技，幫助各界實現 ESG 的理念，共建綠色未來。

ESG regulations and policies are in place in many countries to promote sustainable development. ESG topics are also gaining attention among consumers and investors. Businesses must embrace the trend and apply sustainable practices in environment, social responsibility and governance accordingly. GF Technovation has the right tech tools to help you achieve ESG goals. Let's build a green future together.

# 智能廢物/自動分類回收箱

## Smart Waste/ Auto- Sorting Recycling Bins

### 利用科技高效地管理廢物/回收箱 應對廢物徵費政策

衛晉利用科技方案支援各界提升廢物管理，共同建設可持續發展的未來，為推進環保出力。我們的智能廢物箱、智能廚餘回收箱、自動分類回收箱各具獨特功能，可有效應對各種廢物管理和回收的要求。廢物回收箱更可加設不同功能，如紀錄用戶資料、磅重等，配合用家的需要，應對政府2023年實施的都市固體廢物徵費政策。

### Smart way to manage waste / recycle bins

GF Technovation's smart solutions support waste management for different sectors. Our Smart Waste Bin, Smart Food Waste Bin and Auto-sorting Recycling Bin are packed with powerful features catering to diverse waste management and recycling needs. Choose functions as required, including recording user details and weighing the disposed waste in line with the impending Municipal Solid Waste Charging Scheme to be implemented in 2023. Together we will build a sustainable future with green solutions.

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#### 智能廢物箱 Smart Waste Bin



- 太陽能廢物壓縮器
- 滿載量警示
- 廢物箱容量可增加5倍
- 雲端平台支援數據收集及分析
- 車隊管理平台
- Solar-powered compactor
- Fill-level alert
- Can hold 5 times more waste
- Data are stored & retrieved via cloud-based platform
- Fleet management with real-time data

#### 智能廚餘回收箱 Smart Food Waste Bin



- 核實用戶身份
- 滿載量警示
- 自動消毒及除臭
- 雲端平台支援數據收集及分析
- 自動磅重記錄
- User identification
- Fill-level detection
- Auto-deodorization & sterilization
- Data is sent to cloud-based platform
- Waste weighing

#### 自動分類回收箱 Auto-sorting Recycling Bin



- 核實用戶身份
- 自動垃圾分類
- 滿載量警示
- 自動壓縮
- 可透過手機應用程式查看實時數據
- User identification
- Auto waste sorting
- Fill-level detection
- Auto compression
- Real time data can be viewed via apps

\* 功能可按用家需要加減

\*Choose functions as per your needs

### 益處 Benefits



優化車隊管理  
Logistics optimization



按需要而安排清潔，精簡人手  
Clean on demand



改善衛生  
Improve hygiene



增加廢物箱儲存量  
Enlarge capacity



多元數據分析  
Data insight



簡單方便  
User friendly



# 智能洗手間管理系統

## Smart Toilet System

### 提升營運效率 舒緩人手短缺 提升客戶體驗

智能清潔科技方案結合不同感應器，偵測洗手間內實時情況，按需要時才派員工清潔或跟進，有助減輕人手需求，亦可為設施使用者提供更潔淨的洗手間設施，提升客戶體驗。

### Elevate efficiency and customer experience, with less manpower

Multiple sensors are embedded to check the real-time condition of a toilet. Cleaning can be arranged only when required, so you can use less manpower to keeping toilets pleasant.

## 功能 Features

#### 人數統計

計算進出洗手間的人數，了解每個設施的使用模式，從而根據數據提前計劃人力及資源分配。



#### People Counting

Count people flow in a toilet to gauge usage and collect data for planning manpower and resources deployment.

#### 室內空氣質素感應器

測量氣味濃度水平，深入瞭解洗手間的清潔度，更可遠程監控衛生間的清潔狀態。



#### Ammonia Sensor

Measure odor concentration to check toilet condition and remotely monitor toilet hygiene

#### 消耗品用量分析推算

依據以往用量推算皂液或衛生紙之補充時間，向清潔工發送警報提醒更換或填補。



#### Consumable Sensor

Project the timing for replenishing hand soap and toilet rolls based on historical usage data, and send reminders to cleaners for refilling.

#### 洗手間佔用率及排隊情況

利用非鏡頭技術檢測廁格是否正被使用，並計算可供使用的廁格數目及預計輪候時間。



#### Vacancy Indication

Monitor with non-camera technology whether a cubicle is occupied, and calculate expected waiting time.

#### 跌倒警報

利用非鏡頭技術偵測和判斷洗手間使用者有否跌倒。如發現使用者跌倒後沒有任何動靜，系統將自動發出警報，通知相關人士。



#### Fall Detection

Detect with non-camera technology if a person has fallen down inside a cubicle, and automatically issue alarm for assistance if the person remains motionless.

#### 雲端數據管理平台

利用大數據改善管理。讓業主、設施管理人 (FM) 和清潔公司經理可同時監控多個洗手間的使用情況。



#### Cloud Data Management Platform

Use big data to improve management, and support simultaneous monitoring of multiple restrooms by facility owners and managers of facility management and cleaning companies.



# 智能工業安全警報系統

## Smart Safety Monitoring System

### 工地安全 一目了然

採用物聯網、人工智能及影像分析科技，再配合不同硬件，以低成本及自動化系統全天候監督工地安全，同時提升保安系數。

警報系統連接感應器及鏡頭，當偵測到工地出現異常時，系統會立即發送附有照片的警報提示到預設的流動應用程式或電郵，加上實時視像監控，現場情況一目了然。

系統可按工程的需要增減功能組合，做到度身訂造，更靈活地配合個別需要。

### Track work site safety on a single dashboard

Ensure work site safety with this low-cost and automated system for 24/7 monitoring, making use of IoT, artificial intelligence and image analysis technologies and suitable hardware.

When an anomaly is detected, the alarm system connected to sensors and cameras will issue an instant photo alert to the designated mobile app or email. Real-time video for viewing the work site is also enabled.

Choose a combination of functions that suits your project.



### 多元功能 Features



即時統計人數  
Instant people counting



異物偵測  
Abnormal object detection



進入禁區偵測  
Trespassing detection



無配戴頭盔偵測  
No-helmet detection



實時影像  
Real-time monitoring



電郵或通訊APP  
訊息提示  
Email and Whatsapp alert



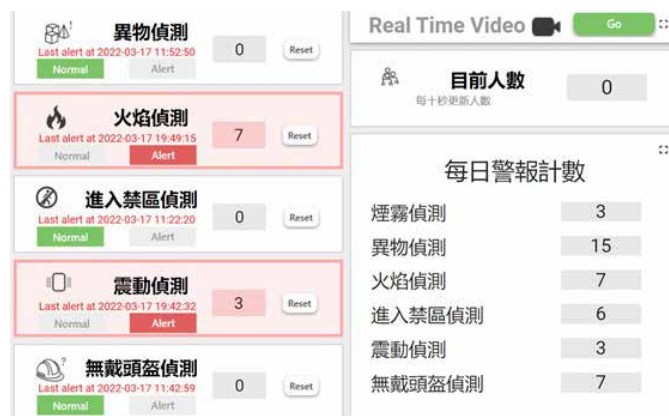
煙霧及火焰偵測  
Smoke and fire detection



觀看影片  
Watch Video

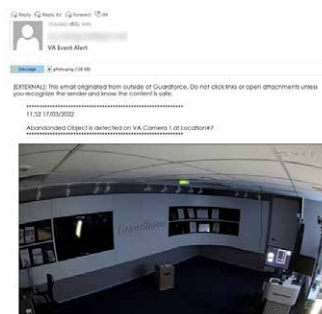


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系統控制版面

User-Friendly System Control Interface



電郵提示  
Email notification with photo



通訊APP訊息提示  
WhatsApp notification with photo

