

## Sun Fat Heung Food Products Ltd. 新佛香食品有限公司 (壹品豆品)

Doing More with Less Using Smart  
Operations  
藉智慧營運讓工作事半功倍



### About the Company 公司簡介

Founded in 1958, Sun Fat Heung Food Products Ltd. has been focusing on the soy industry in Hong Kong for more than 60 years. Branded Top Soya in the market, the company is committed to producing high quality soy products and insists on local daily production to ensure fresh products for consumers every day.

新佛香食品有限公司成立於1958年，60年來在香港專注豆品事業，經營自家的市場品牌「壹品豆品」，致力生產優質的豆製品，堅持每日香港新鮮製造，讓消費者每天都能享用新鮮的產品。

### Background 背景

Following the advice from GS1 Hong Kong Smart Professional Service (SPS) team, Sun Fat Heung has gone through a painstaking and necessary transformation and process re-engineering to automate and streamline its supply chain. The company realised a fundamental uplift of operation efficiency, and profound savings in administrative cost and manpower. As business grows, they want to further strengthen their competitive edge and enhance brand image, by ensuring better product quality and compliance level.

The company understands it is necessary to deepen the digital transformation for the upcoming technological era. They aim to turn into a data-driven operation to make smarter business decisions faster, and accelerate company profits and growth, ultimately joining the league of the pioneering industry 4.0 corporations in Hong Kong.

在香港貨品編碼協會旗下的智慧專業服務 (SPS) 團隊建議下，新佛香經歷了一場艱鉅但必須的轉型和業務流程重組，將流程自動化並提升供應鏈管理能力，讓公司可以徹底全面地提升營運效率、節省管理成本及人力資源。隨著業務增長，他們希望透過加強產品質量和合規性，進一步增強競爭優勢和提升品牌形象。

為迎接未來的科技時代，公司認為必需深化數碼轉型的力度，利用數據驅動營運以作出更明智、更快捷的商業決策、提升公司利潤及增長，目的成為香港發展工業4.0的先鋒。

“The digital transformation process has been tough but totally worth it, we gained much efficiency and made a lot of savings. We believe Smart Operations will take us even further and turn us into a modern, smart manufacturing plant, which not only revitalise our production, but also lead us into the future era of Industry 4.0.”

「推動數碼轉型的過程或許艱鉅，但能夠為我們提升效率並節省開支，一切都是值得的。我們深信智慧營運能夠讓公司更進一步，成為現代化、智慧生產的工場；不但革新我們的生產模式，更能引領公司投入工業4.0的未來世代。」



Mr. Jeff Law,  
Managing Director  
董事總經理 羅孟慶先生

### GS1 standards used or solution (s) / service (s) applied

- GS1 Hong Kong Smart Professional Services
- Smart Operations solution

### 應用的GS1標準或方案/服務

- GS1 Hong Kong智慧專業服務
- 智慧營運解決方案



## Solutions

The SPS team introduced Smart Operations to Sun Fat Heung and assisted its adoption with multiple applications along the production line. In a Smart Operations environment, people, processes and things (e.g. product / machinery) are connected for the production of physical goods and maintenance of assets using IoT technologies, thus data intelligence can be captured to help company gain real-time actionable insights.

Sun Fat Heung is using video analytics and artificial intelligence applications to capture production data, for example checking if expiry dates are clearly stamped on the bottle cap, or counting the number of different products manufactured, in order to automate product validation, SKU identification and ensure quality output. The processes were used to be done by staff manually which was inefficient and sometimes produced inaccurate results, but now has improved significantly.

Smart sensor is installed in the production area in order to capture environmental index like temperature, humidity, air quality and noise, to safeguard product quality and occupational health. Such information helps management to establish benchmark and take proactive action, for instance when high temperature is detected in the beverage storage, staff is alerted to go check at once rather than afterwards, which ensures product quality and minimizes product loss.

To enable users to have a real-time snapshot of the current business operations, GS1 Hong Kong's SPS team designed an all-in-one dashboard, visually tracks and displays the key process performance, discrepancy and environmental data points on the go, helping the company to better analyse and proactively act before issues arise to achieve operational excellence. Satisfied with the outcomes, Sun Fat Heung is planning to expand the applications to other warehouses operations promising consistency across the company.

## Benefits

GS1 Hong Kong's Smart Operations transform Sun Fat Heung business in terms of:

1. Improving product compliance by automatic video analytics and AI technologies
2. Enhancing product quality by imposing various types of controls like abnormal situation alert
3. Enhancing operation visibility to allow real-time updates anywhere, anytime using dashboard

## 解決方案

SPS團隊將智慧營運的多項應用，引入新佛香多條生產線上。在智慧營運的場境內，所有的人、事和物件(如：產品、機械)都以物聯網科技相互聯繫，用作商品生產及資產維護，並能協助公司取得各項數據情報，分析轉化為實時見解及商業行動。

新佛香正使用影像分析及人工智能應用以掌握生產數據，例如檢測瓶蓋上是否有清楚標明有效日期、計算各種產品的生產數量，為產品進行自動驗證、統計單品數量，確保輸出質量。過往這工序需由員工人手處理，效率偏低之餘亦偶爾發生錯誤，而現時將大幅改善。

公司安裝了智能感應器於工場範圍，以測量溫度、濕度、空氣質量和噪音等環境指標，確保產品質量及職業安全。相關資訊有助管理層建立基本標準和預備好相應措施，例如當監察到飲品存庫溫度異常時，員工會獲警報提醒立即進行檢查而非留待例行檢查時間，以確保產品質素、減少產品損失。

SPS團隊設計出一款綜合圖表，讓用戶可以隨時隨地取得即時業務營運資訊，以圖像化追蹤及展示重要生產流程的效能和表現、其中問題和環境數據資料，有助公司更有效地進行分析，並在發生事故前已經能夠及早採取行動，實現卓越的營運管理。新佛香對部署結果相當滿意，計劃拓展該些應用至公司的其他倉庫營運流程，確保統一的效率。

## 效益

香港貨品編碼協會的智慧營運解決方案為新佛香帶來業務轉型，範疇包括：

1. 透過自動化的影像分析及人工智能科技，改善產品的合規管理
2. 推行多種管理措施（例如異常情況警報），加強產品質量
3. 隨時隨地檢視綜合圖表，獲取即時更新資訊、提升營運透明度

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