

應用案例

# 順豐有機肥料 突破接班困境 走向精緻農業



## 背景說明

順豐有機肥料以自然有機、節能減碳的環保觀念，將食品植物性廢渣、農牧有機資源回收再利用，是全國有機質肥料製造界的先驅。

## 挑戰

台灣面臨少子化社會所造成的人口老化、缺工等問題，以往傳統農業生產製程皆靠老師傅自身經驗調整配方、參數，但老師傅面臨退休時是否願意把畢生智慧都傳承給他人，而不留一手是個問號，再加上有機肥料生產環境較差，且有異味，年輕人多不願意在此環境工作，而管理者也不得不面臨老師傅退休傳承問題。

## 解決方案

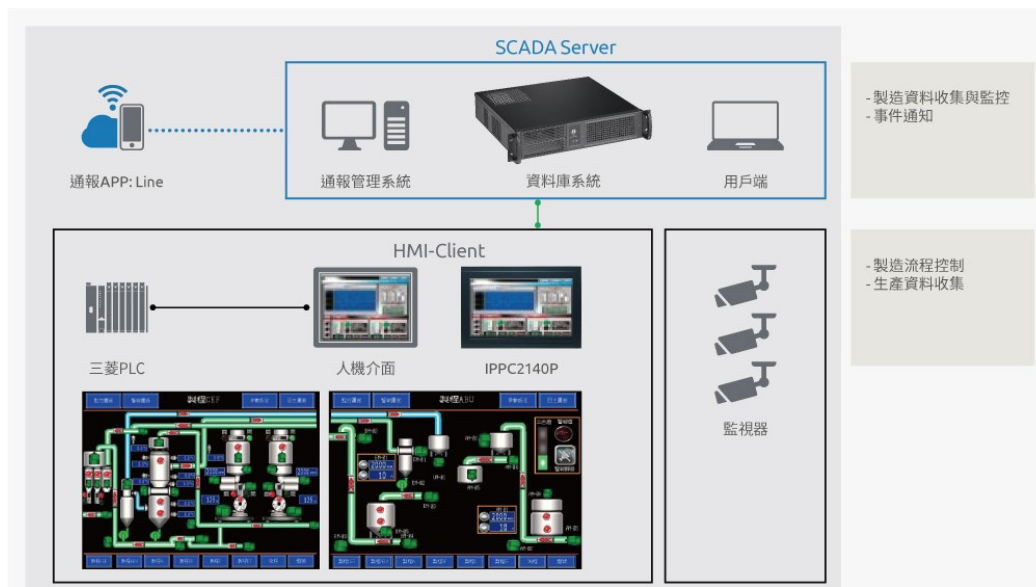
- 人機介面: IPPC2140P

- 中央監控系統工作站電腦: NexBox-Q170-2U

新漢智能工業4.0規畫顧問團隊具備完整的專業知識和技術，並擁有豐富的規劃執行經驗，協助傳統農業實現生產自動化。

顧問團隊協助現場製程流程設計與自動控制系統規劃與施工，製程設計分為A進料、B混合、C製粒、D乾燥、E冷卻、F包裝，現場採用新漢智能21.5" 多點觸控螢幕: IPPC

## 解決方案系統架構



2140P，其為金屬機身鋁製邊框，符合IP66 防水、防塵等級，並具有寬溫特性，可適於現場嚴苛環境以進行生產資料收集(溫度、料位、馬達過載保護)、現場設定製程參數、顯示設備與製程運轉狀態(電力、風速、馬達rpm、電流等)。

製程生產數據蒐集更可透過TCP/IP上傳至辦公區中央監控系統工作站電腦NexBox-Q170-2U3進行狀態分析與查詢，並可透過事件分析警示功能，如火警、馬達錯誤，與Line串接以通知管理者即時處理。

## 成果及效益

1. 業主透過現場生產大數據蒐集及分析找出最適合生產環境參數，有助於產品品質的提升與新產品開發，並進而透過預知保養、節能等大幅降低機台維修的時間及成本，而管理者可於遠端透過中央監控系統資訊得以做即時的決策應變。
2. 透過警示系統於管理者社群媒體推播事件通知而能即時處理，因而降低工安事件。
3. 透過建置自動化與SCADA系統，所有生產狀態和數據皆於人機介面一目瞭然，並透過遠端進行現場監控及分析，解決少子化社會老師傅退休而無年輕人願意進入產業的問題，成功化危機為轉機。



*Your Partner in Smart Manufacturing*

---

Incorporated in 2014 and is a subsidiary of NEXCOM Group (TWSE: 8234). NexAIoT is committed in innovating digital transformation to clients globally by providing one-stop Industry 4.0 solution services, which includes iAutomation, M2M Gateway, IoT Edge and Cloud-based Enterprise War Room of the Industry IoT ecosystem. NexAIoT has formed alliance with world renowned cloud service providers such as Microsoft, AWS, Google, Mindsphere and SAP. Its one-click to cloud gateway and edge computer have been officially certified by these organizations.

In addition to its own brand product, NexAIoT is able to provide tailor made ODM service for customers. NexAIoT is building Industry 4.0 OT/ IT information integration with ecosystem partners to co-create Industry Internet of Things alliance. We sincerely invite you to join the IIoT alliance team and enjoy a win-win result.

[www.nexaiot.com](http://www.nexaiot.com)



---

NEXCOM is an Associate member of the Intel® Internet of Things Solutions Alliance. From modular components to market-ready systems, Intel and the 400+ global member companies of the Intel® Internet of Things Solutions Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics.

Close collaboration with Intel and each other enables Alliance members to innovate with the latest technologies, helping developers deliver first-in-market solutions.

Learn more at: [intel.com/iotsolutionsalliance](http://intel.com/iotsolutionsalliance)

Intel and Intel Core are registered trademarks of Intel Corporation in the United States and other countries.