

台灣農業氣象服務商機

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摘要

前輩的農業種植管理經驗已經不足以應付氣候變遷！為響應政府發展「智慧農業」，解決氣象土壤觀測站價格過高與氣象預報數據沒有專屬客製化的痛點，研發僅萬元且讓農友「土裡一插、電池一裝、QR 一掃」即可完成安裝「農園天眼站」，同步監測空氣土壤數據與多角度植物生長畫面；並應用科研級「高解析天氣預報模式」與「雷達降雨演算法」，整合於「一查就有、一看就懂、一點就通」的網頁展示系統「天氣探長」，提供專屬農田的歷史同期氣候評比、作物生長歷程統計查詢、即時環境監測作物實況、臨近降雨災害預警、未來 16 天逐小時天氣統計查詢、未來 4 週逐週氣候展望、農事宜忌決策日曆、氣候品質標章等，協助台灣 50 萬農友「讓農事計畫戰勝天候變化」。

關鍵字：智慧農業、氣候變遷、天氣探長

The Business Opportunity of Agriculture Meteorological Service in Taiwan

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Abstract

The farming experience has been not enough to cope with climate change. In recent years, "intelligent agriculture" has promoted by the government; however, it faces some dilemma. In this study, the "Micro Weather Station" was developed to solve the traditional "intelligent agriculture" dilemma, such as the high price of the instrument and non-customization of weather information. The users just "plugin the soil, install the battery, and scan the QR code", the "Micro Weather Station" will be completed to installation. After installing, the atmosphere and soil information will be updated and provided in real-time. On the other hand, the multi-angle plant growth photos can be obtained by the unique feature of the "Micro Weather Station".

The above-mentioned capability of Micro Weather Station will be merging in our system, named "weather detective", which is a web displaying system. The high-resolution weather forecast model and radar rainfall estimation algorithm will be integrated into the "Weather Detective" system, which can extra provide the climate and weather evaluation, the statistical of crop growth history, real-time environmental and crop monitoring, warning of extreme rainfall, monthly climate outlook, agricultural decision calendar, climate quality labels, etc. Consequently, the 500,000 farmers in Taiwan can be helped to avoid the disaster of climate change and severe weather. "When the weather is spinning, our plan is winning".

Keywords: Smart agriculture, Climate change, Weather detective