

第 14 集：精準農業-無人農場

試想一下—當氣候不穩、勞力短缺，糧食卻年年要更多，我們還能怎麼耕種？

A farm... without farmers. 沒有農夫的農場

沒有農夫，卻有感測器、數據和自動灌溉。

今天的農田，正悄悄變成科技的實驗場。

而幕後主角，就是我們今天的關鍵詞：

Precision Farming 精準農業

A. News in Tech Tones

Farms don't need farmers? With AI, sensors and drones, food can grow all by itself!

農場不需要農夫了嗎？靠著 AI、感測器和無人機，食物自己就能長出來！

Smart tech like drone mapping and precision farming is changing how we feed the world.

像無人機測繪、精準農業這樣的智慧科技，正在改變我們養活世界的方式。

B. Tech Key Words

Precision Farming 精準農業

Precision = the quality of being exact and accurate 精準、精密、精確

Farming = the activity of growing crops and raising animals. 農業耕作或飼養

Precision Farming = the use of smart technology in agriculture to increase efficiency and accuracy. 精準農業、智慧精準耕作。

就是用感測器、數據和 AI，讓農作物生長更有效率、資材運用更精準的新形態的農耕模式。

對話練習：

A: This is precision farming. My sensor tells me exactly where the soil is dry. I only water those spots.

這就是精準農業。我的感測器會告訴我哪裡的土壤乾了，我只澆那幾個地方。

B: Same here. My drone precisely sprays fertilizer only where it's needed.

我也是。我的無人機會幫我只在需要的地方施肥。

這就是精準農業：只給作物需要的，不多不少。

C. If Technology can talk

如果科技會說話，”Precision Farming，精準農業”會說什麼？

I can replace sweat and labor, but I can only grow something truly fruitful with your heart.

我可以取代汗水與勞力，但唯有你的用心，才能真正結出豐碩的成果。

D. 字彙整理

Sensor (noun) 感測器；傳感器

Drone mapping 無人機測繪；無人機地圖製作

E. 關鍵字應用練習

Q1. What is precision farming?

- ☐ A. Using luck to decide where to plant crops.
- ☐ B. Using sensors, data, and AI to make farming more efficient and accurate.
- ☐ C. Farming by hand without any machines.

Q2. What does a sensor do in precision farming?

- ☐ A. It tells farmers jokes.
- ☐ B. It tells where the soil is dry or needs fertilizer.
- ☐ C. It makes the weather cooler.

Q3. Why is precision farming important?

- ☐ A. It saves water and labor while improving crop growth.
- ☐ B. It helps plants grow on earth and in space.
- ☐ C. It replaces all farmers completely.

Q4. (造句練習 sentence builder) 請用” Precision Farming 精準農業”造一個屬於你的句子。

舉例

主詞	動詞/動詞片語	其他元素
Farmers	uses	precision farming to save water and increase crop yield.
Precision farming	helps	reduce waste and improve efficiency in agriculture.
Drones	collect	data for precision farming to guide planting and irrigation.

我的句子：_____

Q5. Fill in the blanks (填空)

1. Precision farming uses _____, _____, and _____ to help crops grow better.
2. It saves _____ and _____, making agriculture more sustainable.
3. Drones and sensors provide _____ to guide planting and watering.
4. Precision farming reminds us that real farming also needs the farmer's _____.

(參考答案：sensors • data • AI • water • labor • information • heart)

科技，幫我們節省汗水，提升效率，
但真正的農業，不只是種出食物，更是種下心意。

Every harvest begins in the soil of the heart.

Tech may replace labor, but not intention.

精準農業，讓每一滴水不被浪費，
也讓我們有更多餘裕去體貼農民的辛勞，
感激土地的回應。