

UPGRADED FERTILISER SPREADER TO REDUCE FERTILISATION COSTS IN TABLE GRAPES AND KIWIFRUIT.

techcoachproject.eu

MAIN CHALLENGE/ OBJECTIVES

The objective of this solution was to adopt Smart Farming technologies that better manage resources, particularly fertilisers, and reduce costs. The main challenge for the adoption of this technology is the higher initial cost of the upgraded machinery and the need for prescription maps.

MAIN RESULTS/ OUTCOMES

By using the upgraded fertiliser spreader, farmers will be able to apply fertilisers through Variable Rate Application, distributing only what is needed and in the required amounts. This ensures that the field receives only what it needs, reduces fertiliser leaching, and decreases both fertiliser use and overall costs.



PRACTICAL IMPLICATIONS / RECOMMENDATIONS

Adopting this Smart Crop Farming technology can significantly improve farm efficiency and sustainability by enabling site-specific management of inputs through Variable Rate Application. Farmers should consider both initial and operational costs, including the upgrade of spreading machinery, development of prescription maps, and basic training for operators and agronomists to correctly interpret data and manage the system. While the initial investment may be higher than conventional practices, the technology becomes economically viable particularly for medium to large farms or in operations with commercial production volumes, as input savings and yield improvements offset costs over time. The approach is highly replicable in different regions and adaptable to various crops and terrains, provided that field variability exists and reliable data (soil sampling and UAV measurements) can be collected. Practitioners can directly apply the outcomes by integrating prescription maps into routine fertilisation practices, optimising input use, reducing environmental impacts, and improving productivity and crop quality.

GEOGRAPHICAL LOCATION

Peneus River Delta, Thessaly, Greece & Chalkidiki, Macedonia, Greece

FURTHER INFORMATION

<https://4p-project.gr/>



TECHCOACH has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101182908.

www.linkedin.com/company/techcoachproject



www.facebook.com/techcoachproject

