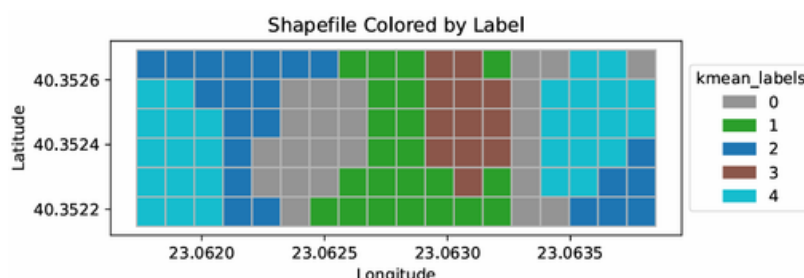


UPGRADED FERTILISER SPREADER FOR PRECISION FERTILISATION USING PRESCRIPTION MAPS IN TABLE GRAPES AND KIWIFRUIT.

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MAIN CHALLENGE/ OBJECTIVES

Farmers showed strong interest in participating in the Operational Group and are considering adopting the technology on their farms. For high-value crops like kiwifruit and table grapes, the system applies fertiliser only where and as needed, reducing costs while maintaining and improving fruit quality.



MAIN RESULTS/ OUTCOMES

The main outcome is fertiliser application based on actual field needs, considering spatial and temporal variability. Using prescription maps from UAV data and soil sampling improved accuracy, reduced costs and environmental impact, and enhanced yield and fruit quality, increasing farmers' interest in adoption.

PRACTICAL IMPLICATIONS / RECOMMENDATIONS

At the start of Operational Group 4P, two pilot farms with high-value crops were selected: one in Chalkidiki for table grapes and one in the Peneus River Delta for kiwifruit. These crops are economically important, and proper fertilisation can increase yields and reduce costs. During one growing season, regular soil sampling and UAV flights with a multispectral camera were conducted to create prescription maps, that the upgraded spreader would follow. Yield samples were collected across both fields at the end of the season. A conventional fertiliser spreader was mechanically upgraded to enable Variable Rate Application. In the following season, the maps were feeded to the fertiliser spreader and the whole system was



thoroughly tested, while yields were measured for comparison between traditional and VRA fertilisation, with promising results. Dissemination activities focused on farmers through demonstration events, while researchers and industry stakeholders showed strong interest in the solution.

GEOGRAPHICAL LOCATION

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

FURTHER INFORMATION

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



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