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DEMOKRITOS

Coordinating Beneficiary



Frost doesn't forgive.
WE PREDICT IT.



The Project is co-funded by the LIFE Programme of the European Union
(LIFE20 CCA/GR/001747)

Co-funded by the Green Fund



Frost Costs



In Europe, damages reach over 3.3 billion euros annually



The weather is becoming increasingly unpredictable



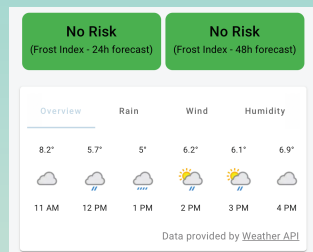
One night of frost can destroy the whole harvest

What is FROSTDEFEND?

It is a warning system that "reads" the environment and informs you about the risk of frost in your trees (e.g., fruit trees). It doesn't just rely on temperature; it examines all the factors that cause damage.

How does it help you in practice?

We are developing a smart network with affordable sensors (IoT) installed in the field to monitor in real-time:



The weather

Temperature, humidity, and atmospheric conditions



The Particles and the Bacteria

By using smart algorithms, we calculate the bacteria growing on the leaves that enhance ice formation



The Tree's Growth Stage

We take the plant's growth stage into account to provide a more accurate estimation of the risk of frost damage

Advantages for the Producer

Accurate Prediction

Learn exactly when and how much your production is at risk

Cost Reduction

Activate protection systems (e.g., overhead irrigation, wind machines) only when truly necessary.

Income Protection

Reduce losses from frost, ensuring a high yield for your harvest.

