



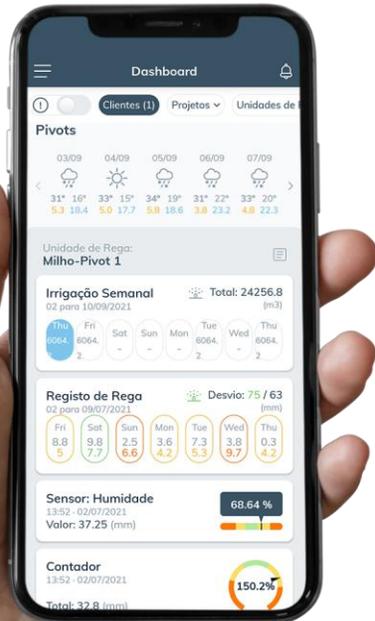
# HIDROSOPH' S AVOCADO IRRIGATION MANAGEMENT APPROACH VALIDATED BY FIELD MONITORING

16.03.2026

smart  
irrigation  
works



## WHO WE ARE



- 1 Leading company
- 2 International coverage
- 3 Integrating with client existing systems
- 4 Customized agronomic solutions to customer profile
- 5 Developers of IRRISTRAT™ software

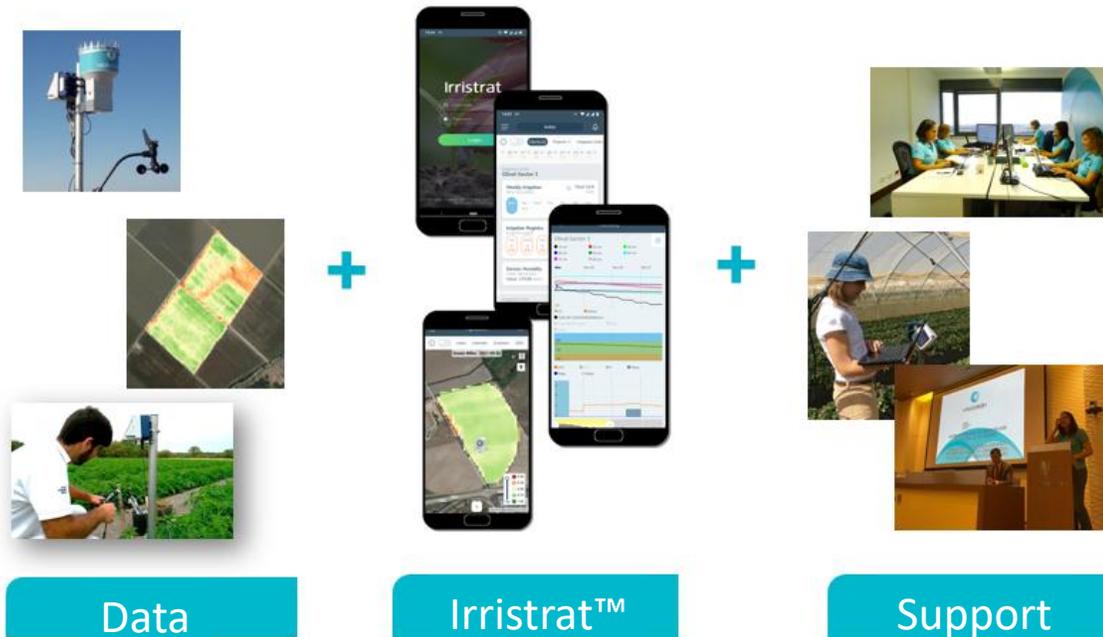
~500 monitored avocado plots across the Iberian Peninsula





# OUR TECHNICAL FRAMEWORK

## DECISION SUPPORT & CONTROL



# IRRIGATION APPLIED

Average measured values (Hidrosoph field data):

- 2025: 6074 m<sup>3</sup>/ha
- 2023 drought year: 4403 m<sup>3</sup>/ha

*Water use is not static. It responds to climate and management.*



# WATER PRODUCTIVITY

Physical and economical efficiency

## Avocado

- 1.58 kg/m<sup>3</sup>
- 3.15 €/m<sup>3</sup>

## Citrus

- 5.39 kg/m<sup>3</sup>
- 2.16 €/m<sup>3</sup>



# WHY AVOCADO REQUIRES PRECISION

Avocado does not tolerate poor irrigation management.

- High irrigation frequency
- High sensitivity to deficit and excess
- Root system vulnerable to waterlogging
- Yield strongly dependent on irrigation control





### DSS COST

#### Avocado

- ~1% of production value
- Monitoring equipment amortized in 3 years

*If irrigation is the main risk factor, decision support is the most rational investment.*



# CONCLUSION



HIDROSOPH

- 1 We monitor ~500 plots across Iberia.
- 2 We measure irrigation precisely.
- 3 We make adaptive water use recommendations.
- 4 We quantify water productivity.
- 5 Avocado producers using our DSS are applying the most advanced irrigation management tools available.



# HIDROSOPH

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