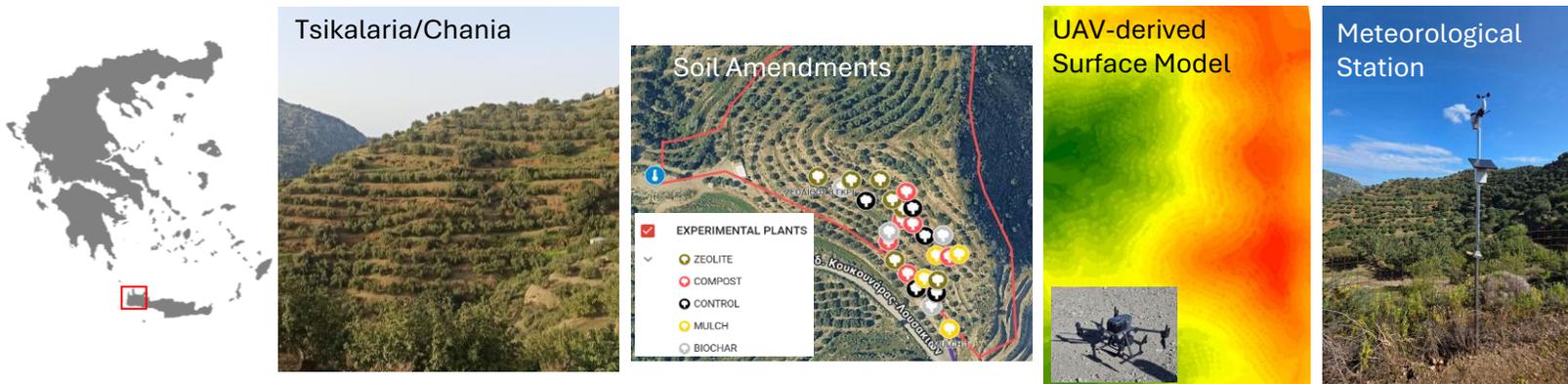


Site: Tsikalaria, Kissamos municipality, Chania Prefecture, Crete, Greece

Crop: *Ceratonia siliqua* L. (Carob Tree)



Interventions:

- Established perennial orchard (~25 years old) on sloping terrain
- Single-application soil treatments (Compost, Zeolite, Mulch, Biochar) applied to selected trees and marked accordingly
- Mechanical weed control between rows
- Minimal formative pruning (spring)
- Rainfed management (no irrigation)

Monitoring of:

- Crop development and health through remote sensing (satellite and UAV)
- Soil moisture at 15 and 30 cm depth
- Leaf wetness
- Meteorological parameters
- Phenological stages through time-lapse cameras
- Tree productivity/yield indicators

Climate: Mediterranean, with hot, dry summers and mild, wet winters

Altitude: 310-365 m a.s.l.

Average rainfall: 630 mm

Soil characteristics: Sandy clay loam, near-neutral to slightly alkaline, low salinity

Irrigation methods: None

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Flowering														
Fruiting														
Harvest														