TOBACCODSS

The DSS for tobacco cultivation

Why choose TOBACCODSS
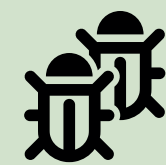
Increase
the quality and quantity of cultivated tobacco

Monitor
the state of the fields, even remotely

Reduce
management costs

Defend
in advance from pests and diseases

Optimize
the use of inputs (water, treatments, fertilizers)

FIELD MAPPING

Geolocate the field on the map and draw it: features will be immediately hooked. You can enable the cadastral map and enter sheet and parcel information.
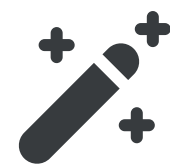
Use one of the following methods to create your field.

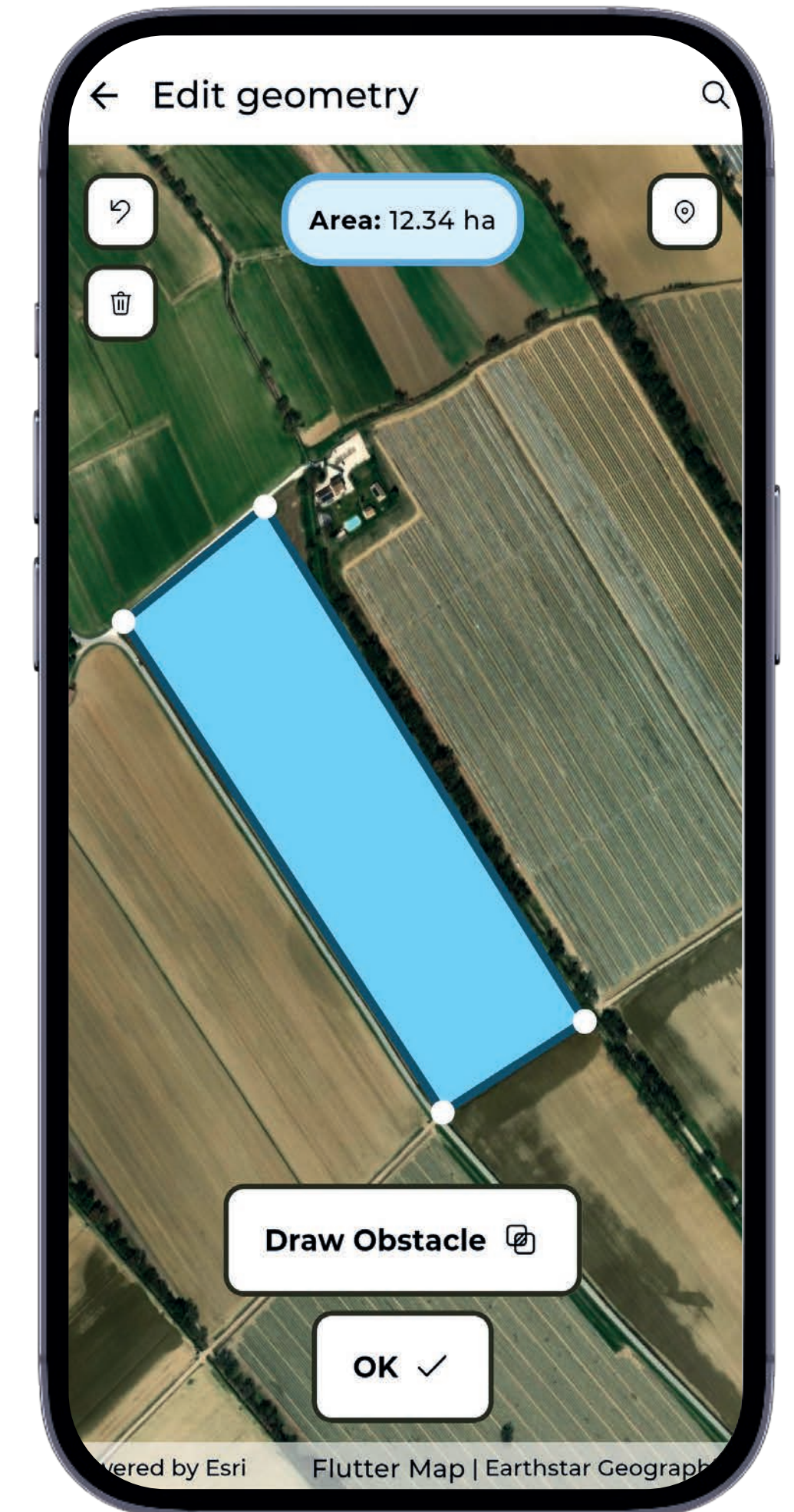| Draw on map	Automatic detection	Upload files
Locate the plot on the map and draw it manually.	Locate the plot on the map and enable automatic detection to map the field with just one click.	Upload a .shp or .kmz file..
✓ Select	✓ Select	✓ Select

Edit geometry

Area: 12.34 ha

Draw Obstacle

OK ✓
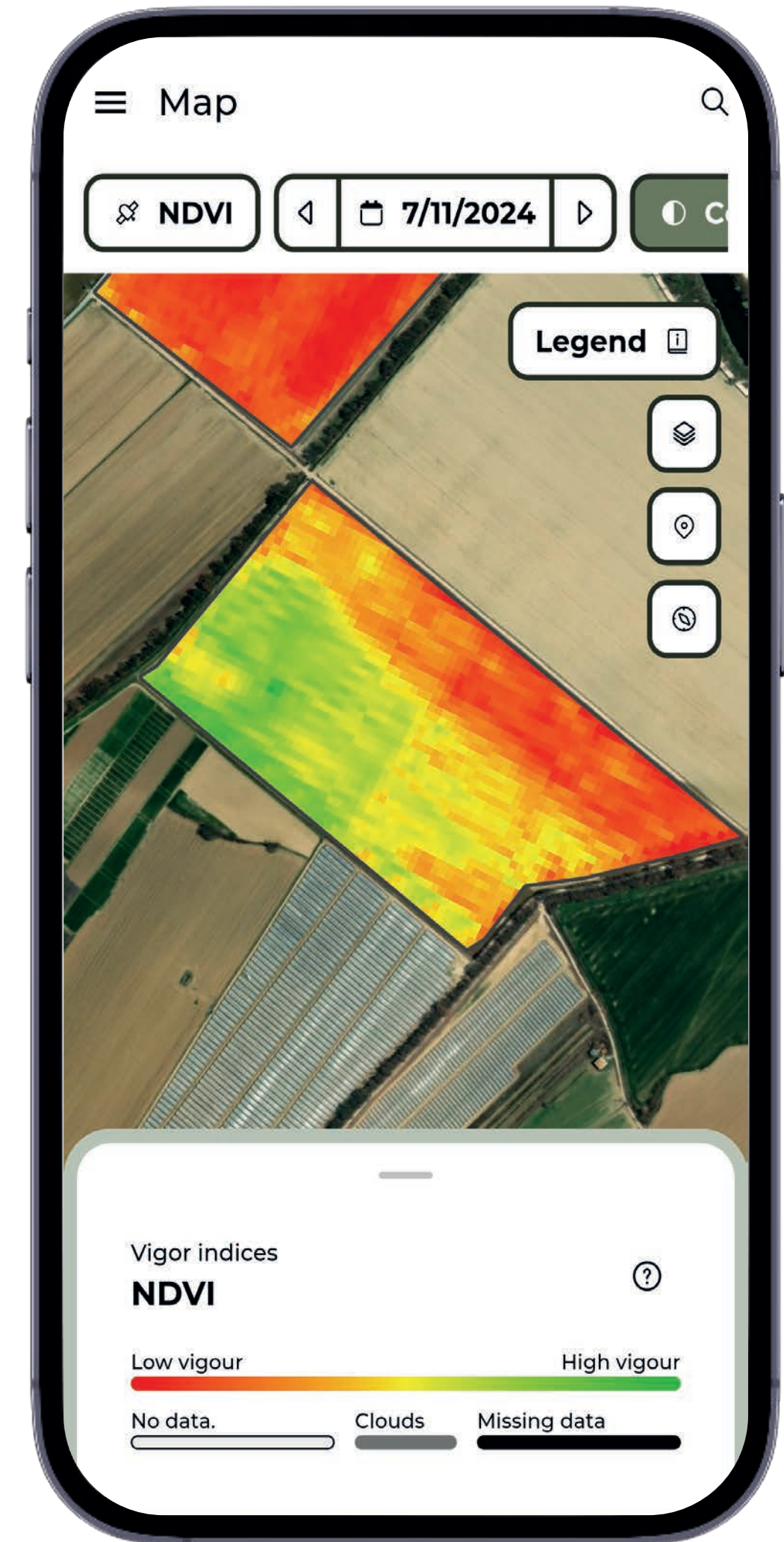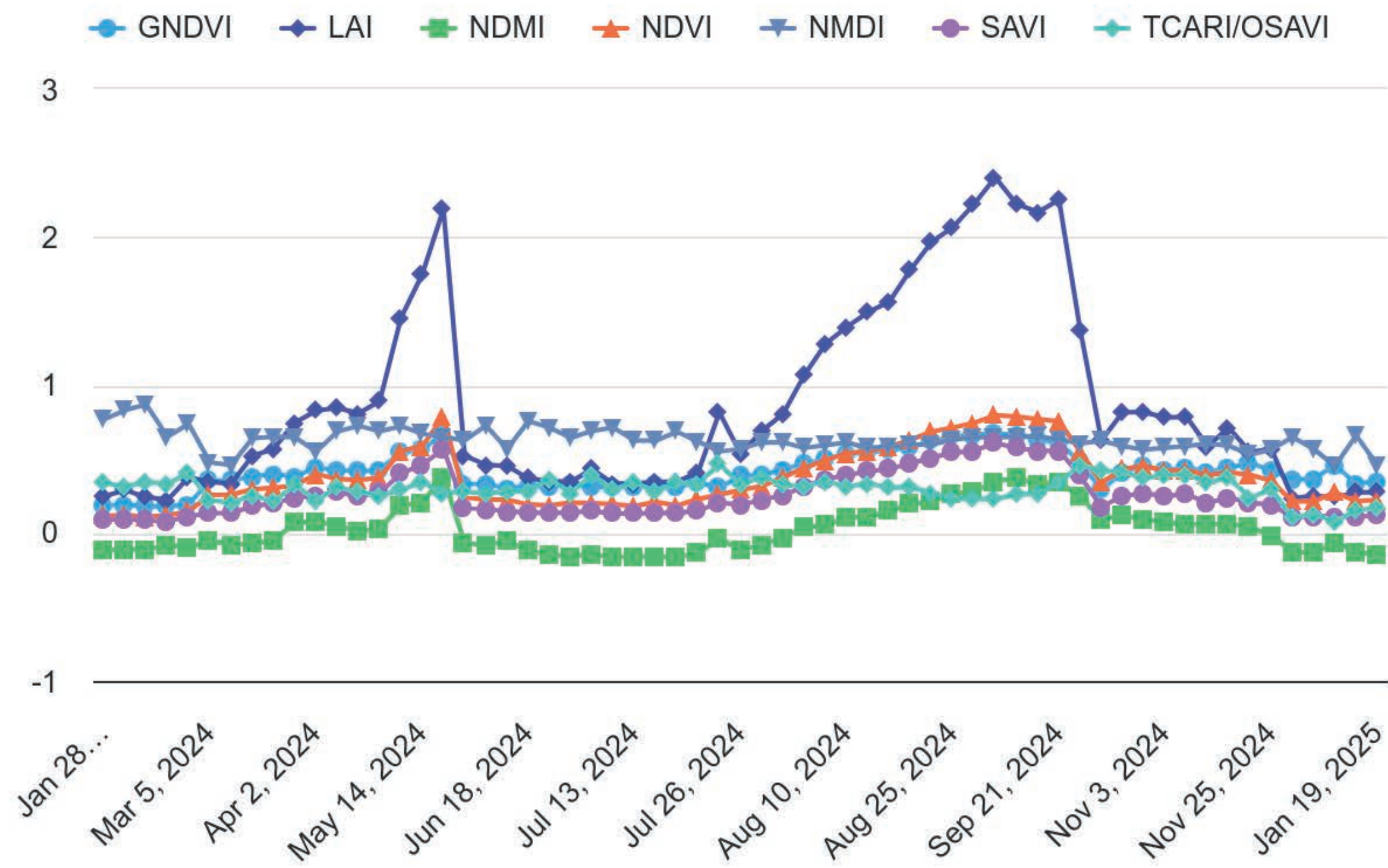
Powered by Esri   Flutter Map | Earthstar Geograph

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SATELLITE IMAGERY

Consult Sentinel-2 satellite images with vigor, water stress and chlorophyll indices to assess crop health and plan monitoring activities.

WORK

TASK MANAGEMENT

Create and assign to your collaborators the activities to be carried out in the farm **in real time**.

CROP OPERATIONS

Register where, how and when crop operations such as irrigation, treatments and fertilization have been carried out.
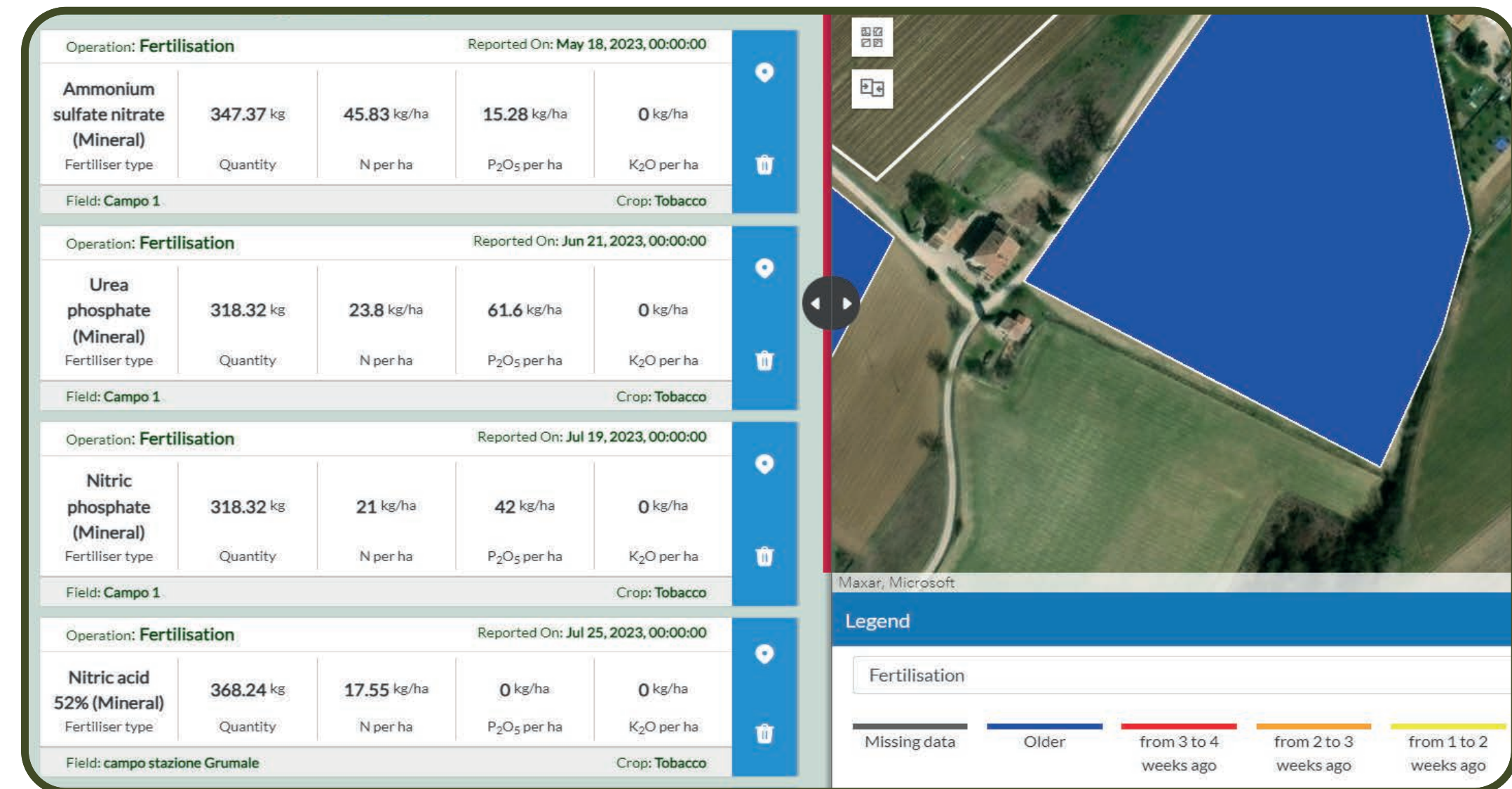
MACHINARY

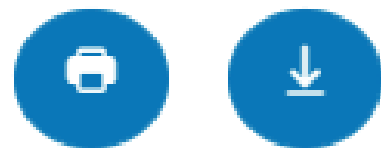Register your agricultural machinery, any problems and maintenance carried out. You can also connect them to Agricolus by using **Agrirouter**.

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Lot code: J12756

Landing page

https://web.agricolus.com

🔗 Visit page

The QR code on the mask will allow easy access to the web page dedicated to the product traceability. In this way, all detailed product information can be consulted with great convenience

PRODUCTION LOTS

Create and assign to each crop its own production lot to improve **traceability** of operations. A **QR code** is also generated that allows you to access and share the dedicated web page where you can consult all the information on the product.

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SUSTAINABILITY

Monitor the **economic** (yield, production) and **environmental** (water consumption, input control and farm biodiversity) **sustainability indicators** of your farm. You can set the level to be reached for each indicator and monitor how the work is going.

Economic ☆

Environmental ☆

Targets List ☆

ENVIRONMENTAL ❓

🌱 **ENVIRONMENTAL INDICATORS**
Environmental indicators focus on the impact of agricultural practices on the surrounding environment

Water

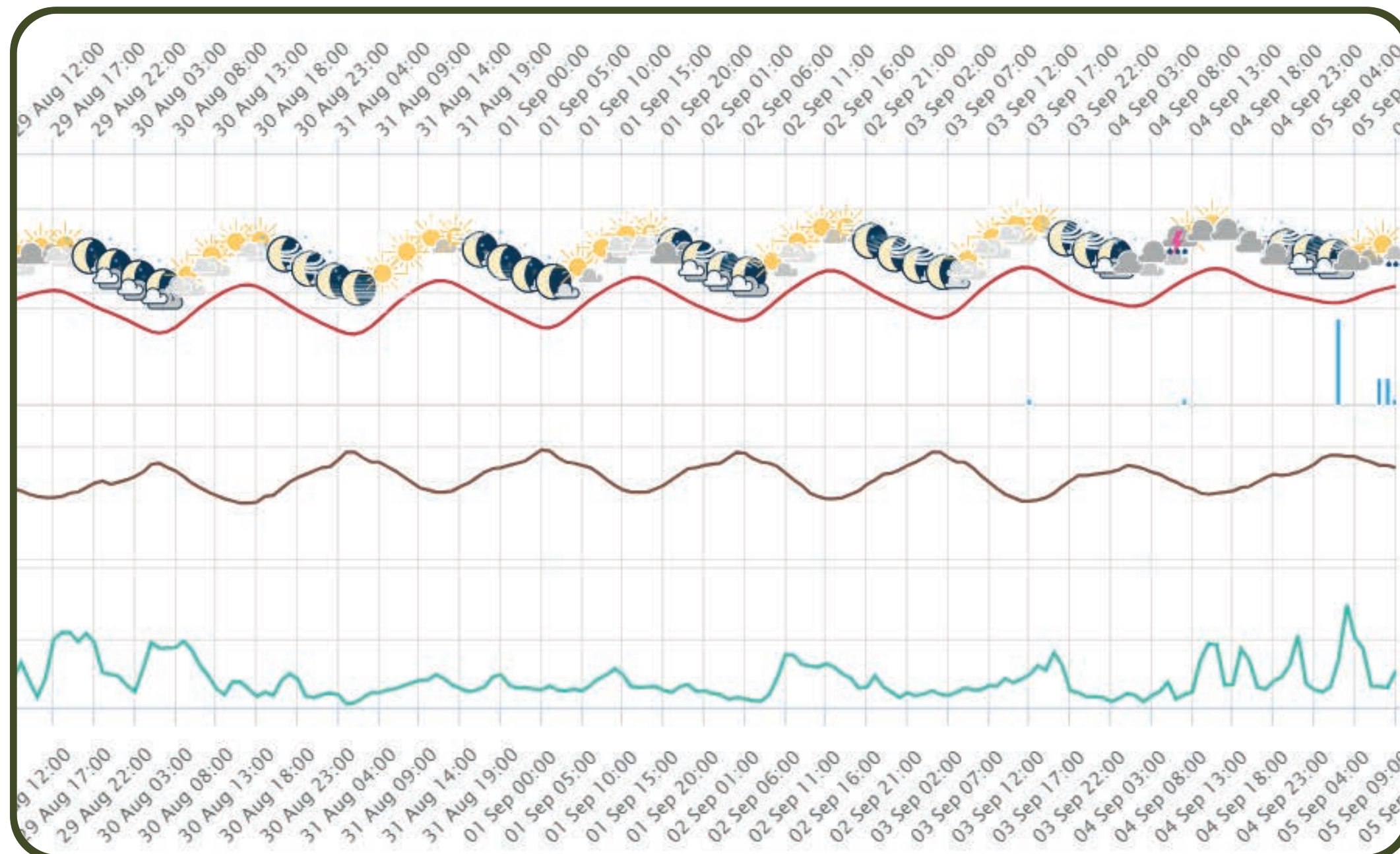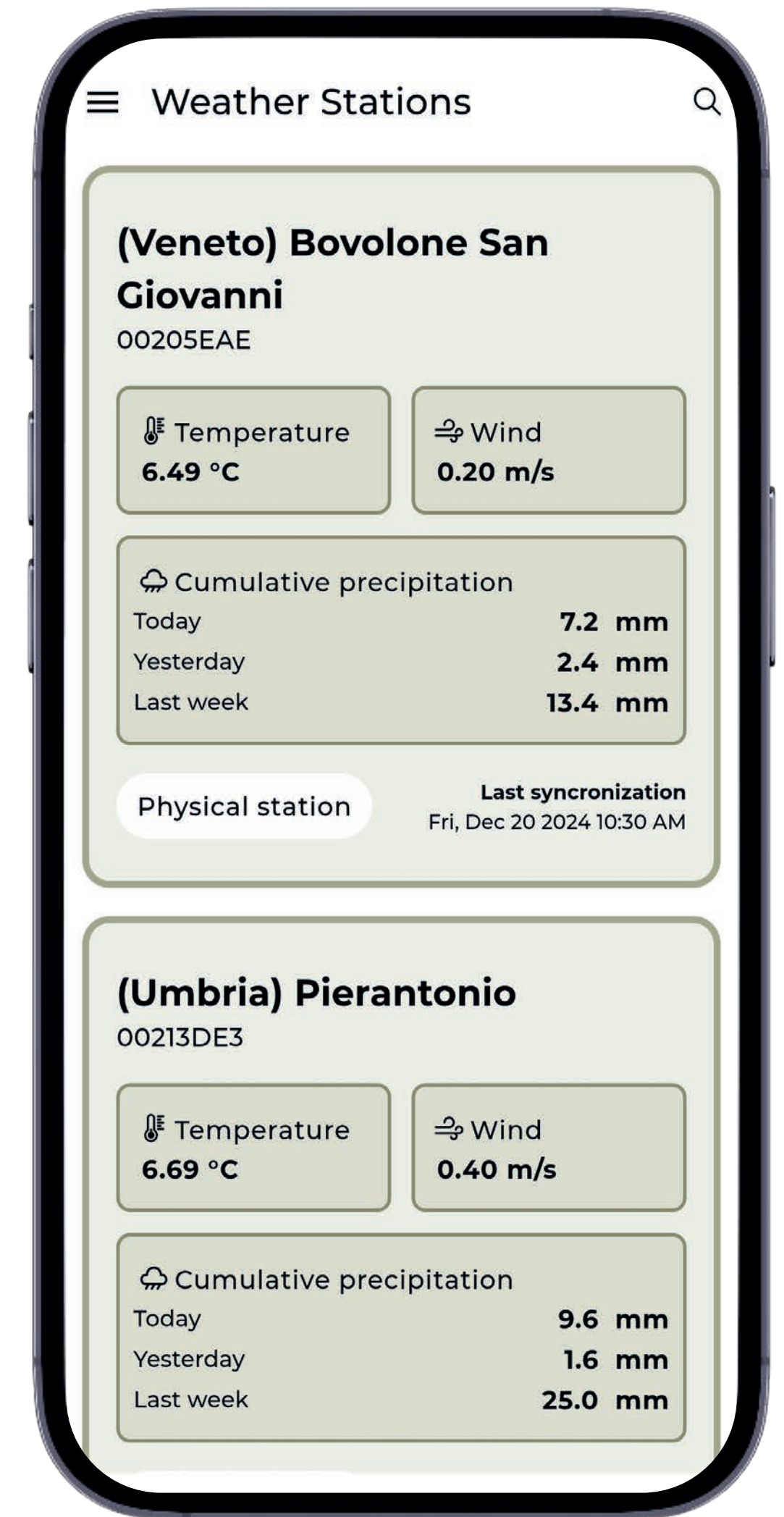| Indicator	Value
Total water consumption	5980.21 m^3
Average water consumption	163.1 m^3/ha

Fertilizer

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WEATHER

WEATHER FORECASTS

Consult professional weather forecasts up to 7 days updated every hour: **temperature, humidity, wind speed, rainfall.**

WEATHER STATIONS

Virtual weather station includedt; *physical weather stations and sensors can be purchased or integrated, if already present in the company.

Weather Stations

(Veneto) Bovolone San Giovanni
00205EAE

Temperature	Wind
6.49 °C	0.20 m/s

Cumulative precipitation
Today — 7.2 mm
Yesterday — 2.4 mm
Last week — 13.4 mm

Physical station — Last syncronization
Fri, Dec 20 2024 10:30 AM

(Umbria) Pierantonio
00213DE3

Temperature	Wind
6.69 °C	0.40 m/s

Cumulative precipitation
Today — 9.6 mm
Yesterday — 1.6 mm
Last week — 25.0 mm

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FORECAST MODELS

PHENOLOGY

Prediction of phenology to assess field needs in each development stage.
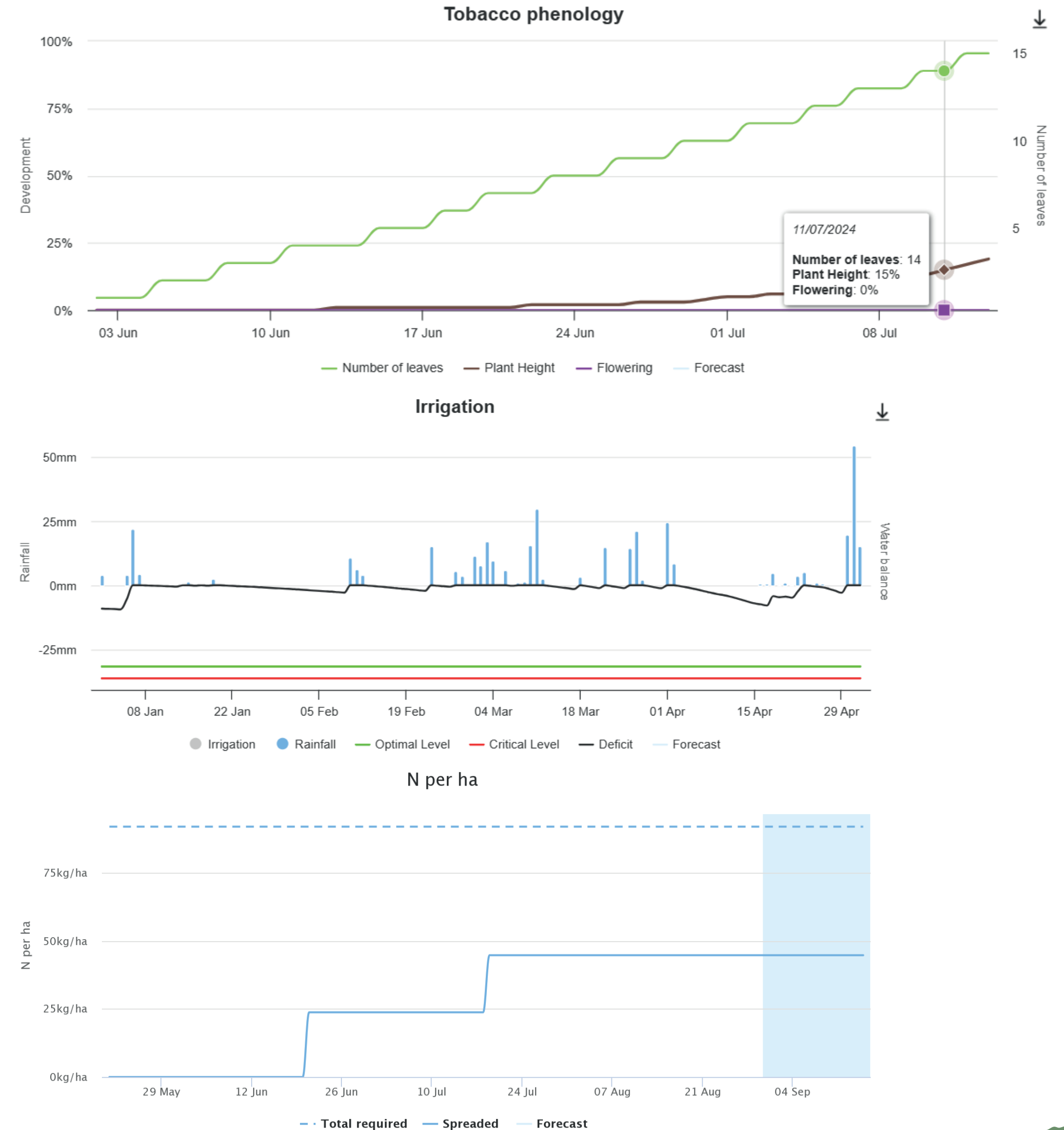
IIRRIGATION

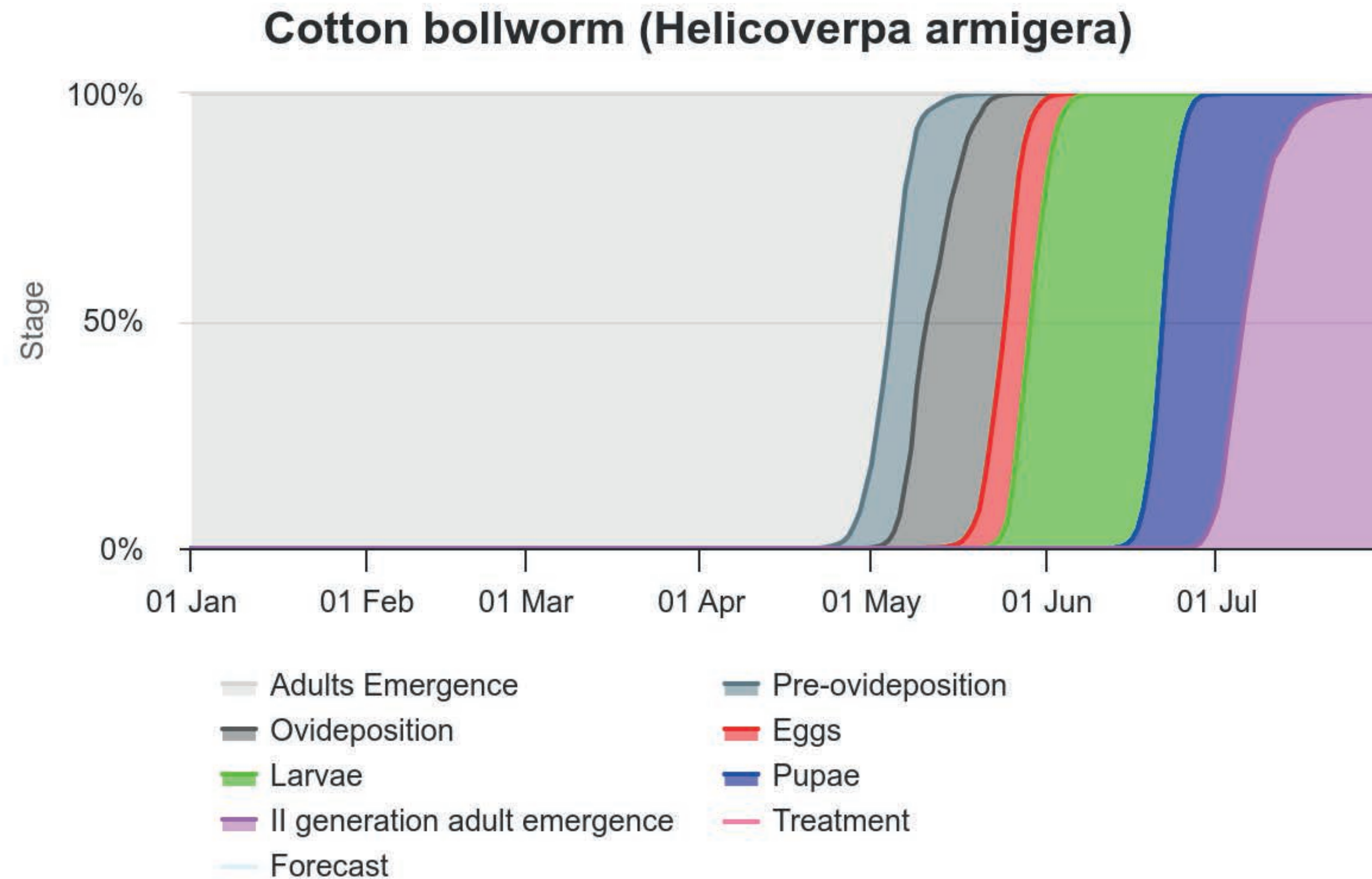Evaluation of water requirements to carry out irrigation when necessary with the right amount of water.

FERTILIZATION

Calculation of the total requirement of nitrogen, phosphorus and potassium (Kg/ha) required throughout the production cycle.

Tobacco phenology

11/07/2024
Number of leaves: 14
Plant Height: 15%
Flowering: 0%

— Number of leaves — Plant Height — Flowering — Forecast

Irrigation

○ Irrigation ● Rainfall — Optimal Level — Critical Level — Deficit — Forecast

N per ha

-- Total required — Spreaded — Forecast

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PESTS AND DISEASES MODEL

Cotton bollworm (Helicoverpa armigera)

Prediction of infestations and diseases to assess the risk of pest (**Helicoverpa armigera**) and diseases (**Peronospora**) and act promptly.

Features

DECISION SUPPORT

Provides information on the interventions to be carried out on the basis of the data collected.

TOBACCO DEFENSE MODEL ALERTS

PEST PREDICTION PLANT DISEASES AND INSECTS

Check for the presence of adults
Helicoverpa armigera

forecast for the next 12 hours

12 HOUR WEATHER FORECAST

No risk

Peronospora

33.55mm
water requirement

ESTIMATION OF IRRIGATION NEEDS FROM THE FORECAST MODEL

19/11/2024
Rainfall: 2.4
Optimal Level: -10.97
Critical Level: -51.17
Deficit: -4.05

01 Sep   01 Oct   01 Nov

evel   — Critical Level   — Deficit

abacina)

mag   15 mag   29 mag   12 giu   26 giu
Previsionale

90% flowering (BBCH O)

RISK LEVEL LEGEND

FIELD SURVEYS ENTERED BY THE USER AND INTEGRATED INTO THE PHENOLOGY FORECASTING MODEL
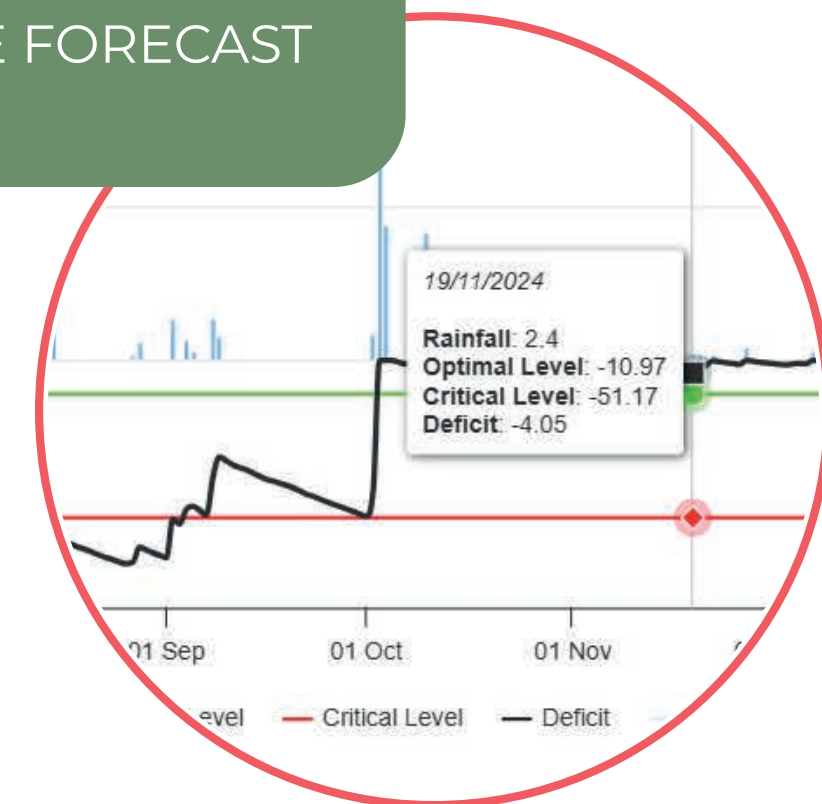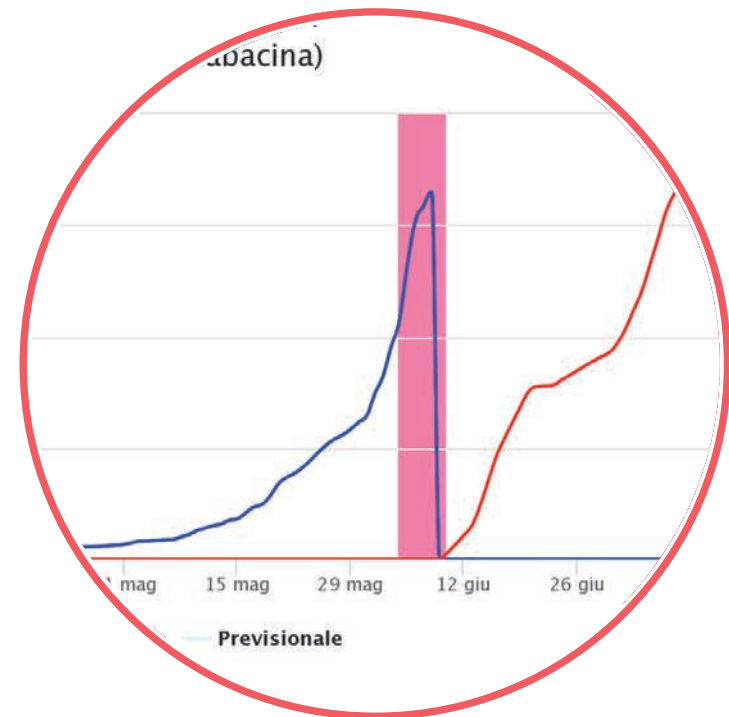
High risk
Alarm level

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Features
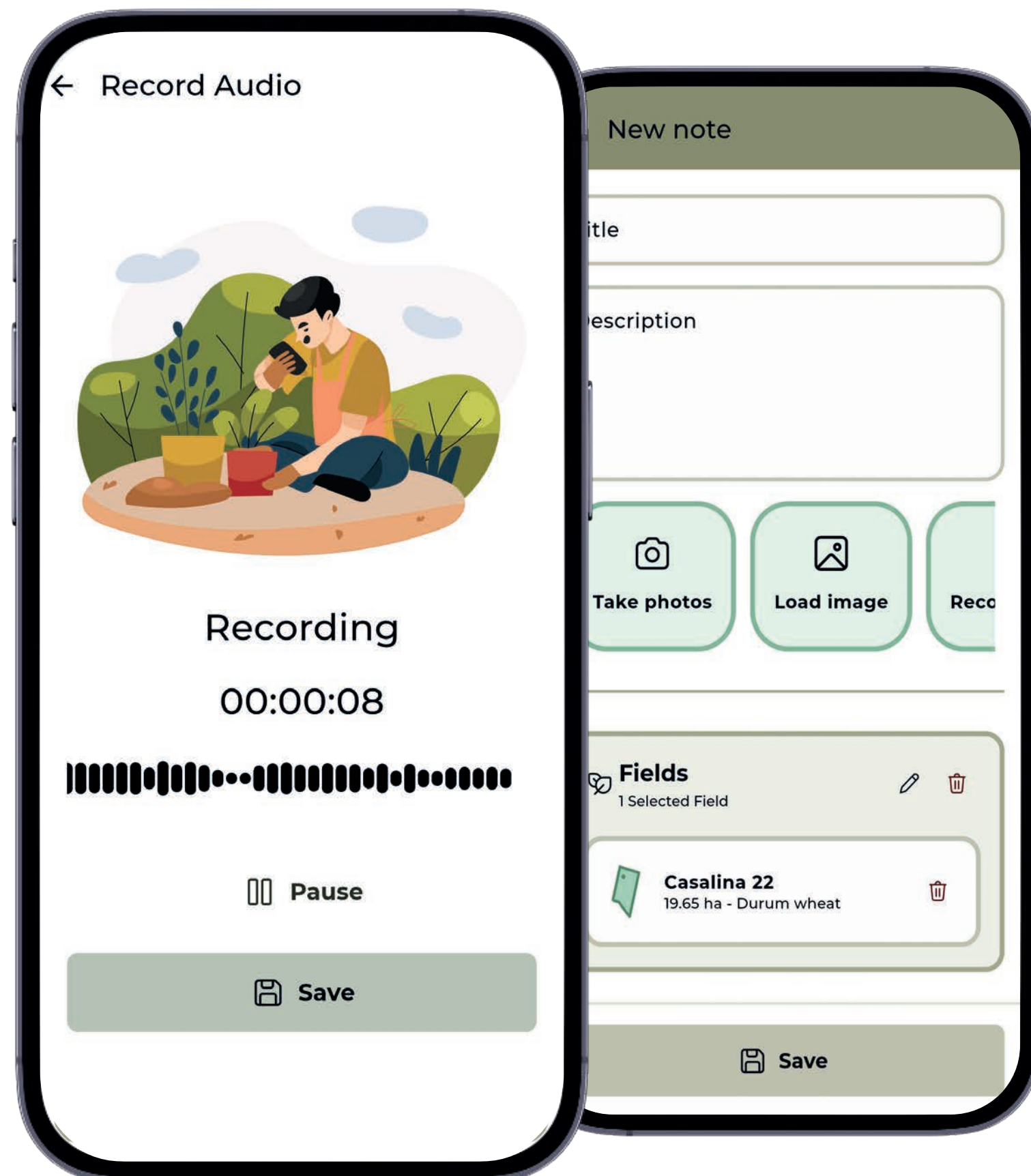

CROP SCOUTING

Geolocate and register into the platform the field activities with **Agricolus's App**: phenology, pests and diseases, traps and captures, crop damage, soil analysis and issues.

- ⊙ **ISSSUES**
- ⚠ **CROP DAMAGES**
- **TRAPS**
- **CATCHES**
- **PHENOLOGY**
- **PESTS AND DISEASES**
- **SOIL ANALYSIS**

PRESCRIPTION MAPS

Choose the most suitable vegetation index to develop the prescription map and carry out variable rate fertilization.

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