

Grow **TOBACCO** and enhance **SUSTAINABILITY**

SATELLITE
IMAGERY



FORECAST
MODELS

TASK
MANAGEMENT



FIELD
MAPPING



CROP
SCOUTING



TOBACCODSS



Increase the quality and
quantity of cultivated
tobacco



Reduce management
costs



Prevent the spread of
stress and diseases



Reduce the use
of water



Monitor the field,
also remotely



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

Locate the plot on the map and draw it manually.

✓ Select



Automatic detection

Locate the plot on the map and enable automatic detection to map the field with just one click.

✓ Select



Upload files

Upload a .shp or .kmz file.

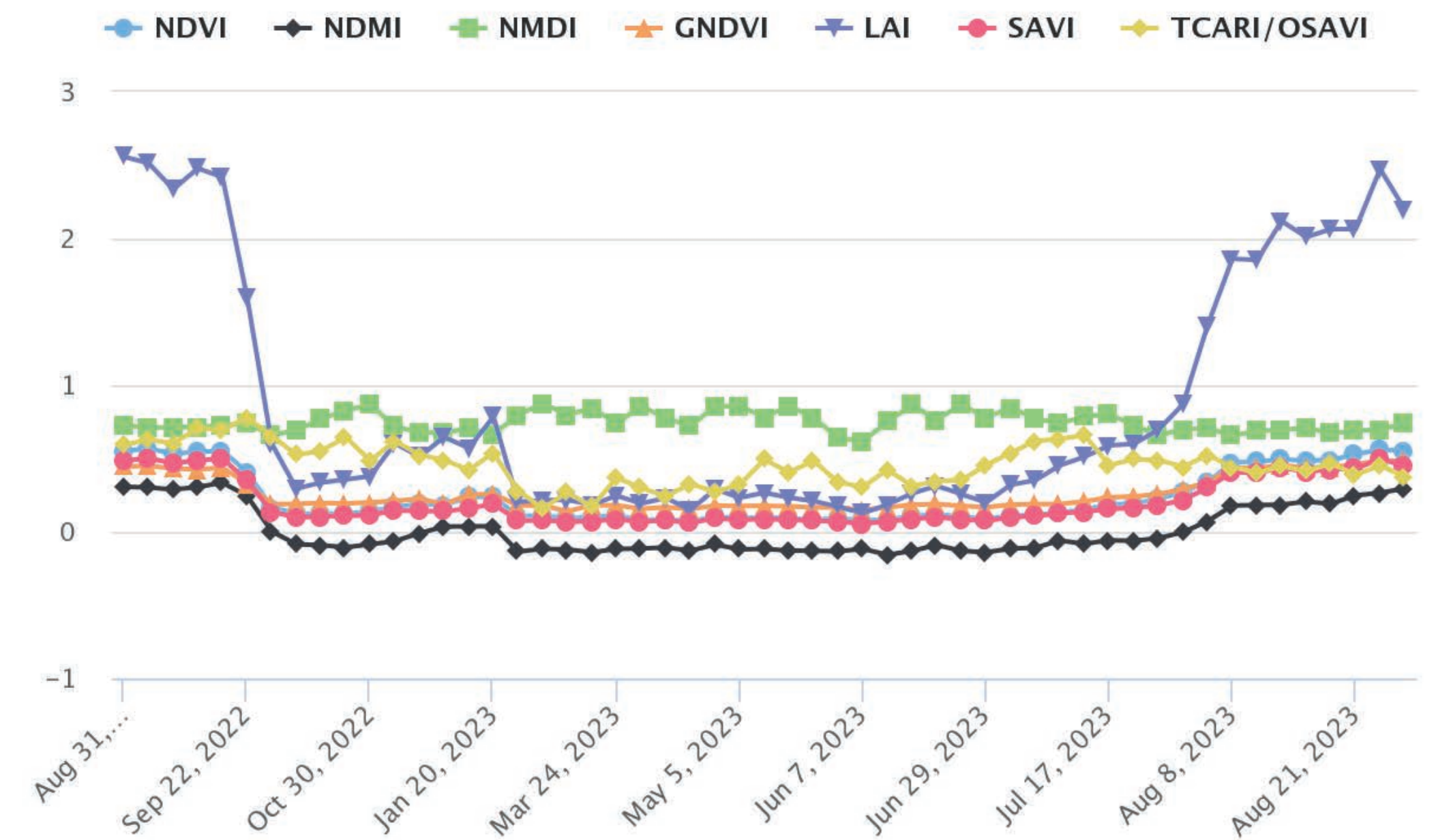
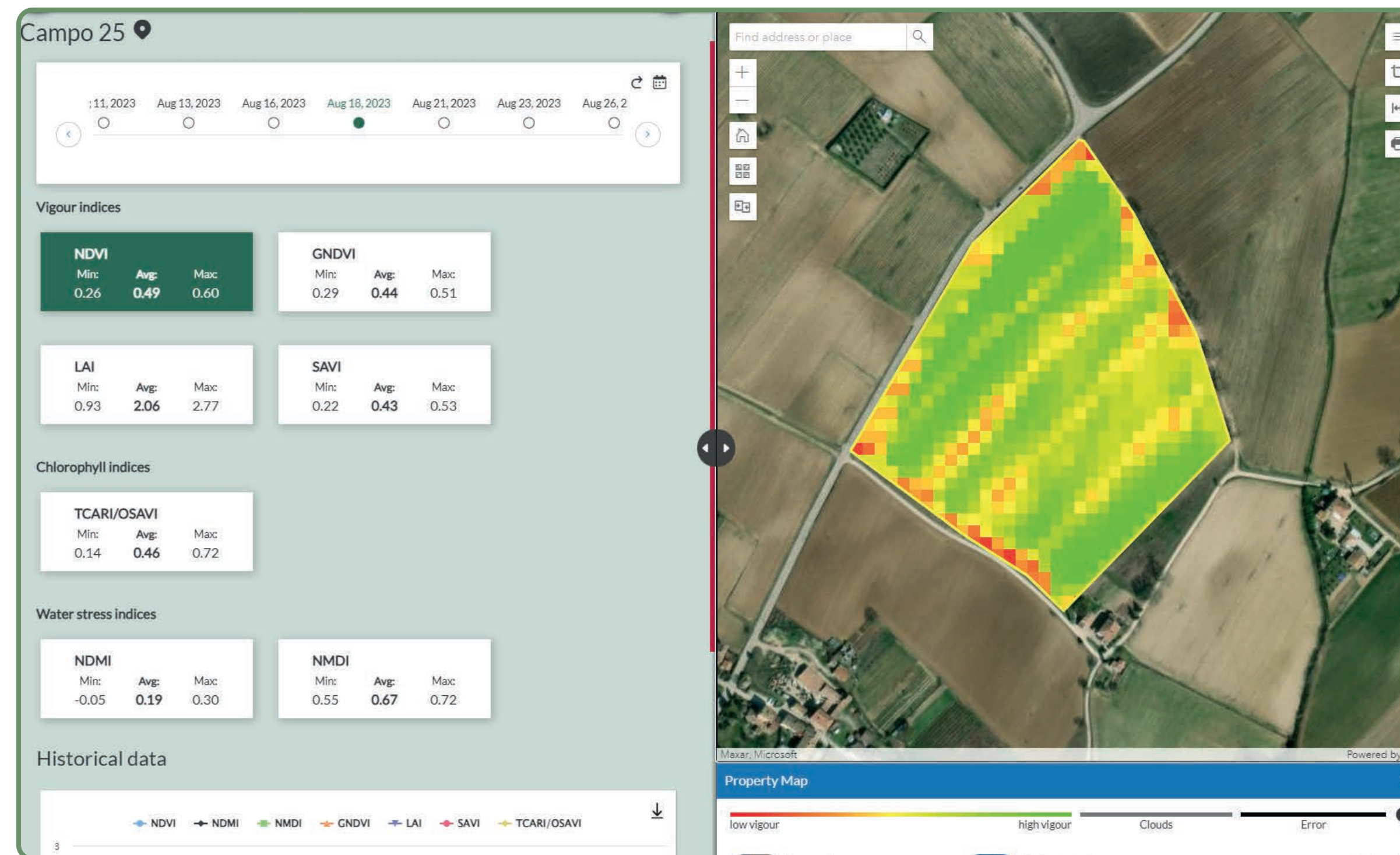
✓ Select

FEATURES



SATELLITE IMAGERY

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



FEATURES

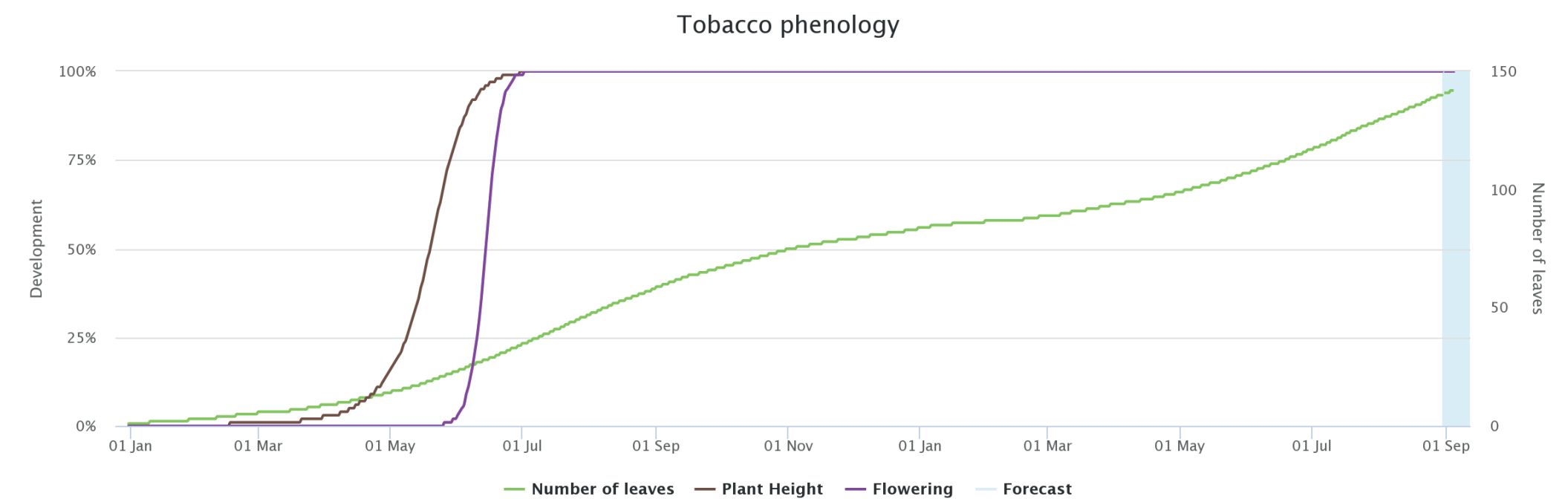


FORECAST MODELS



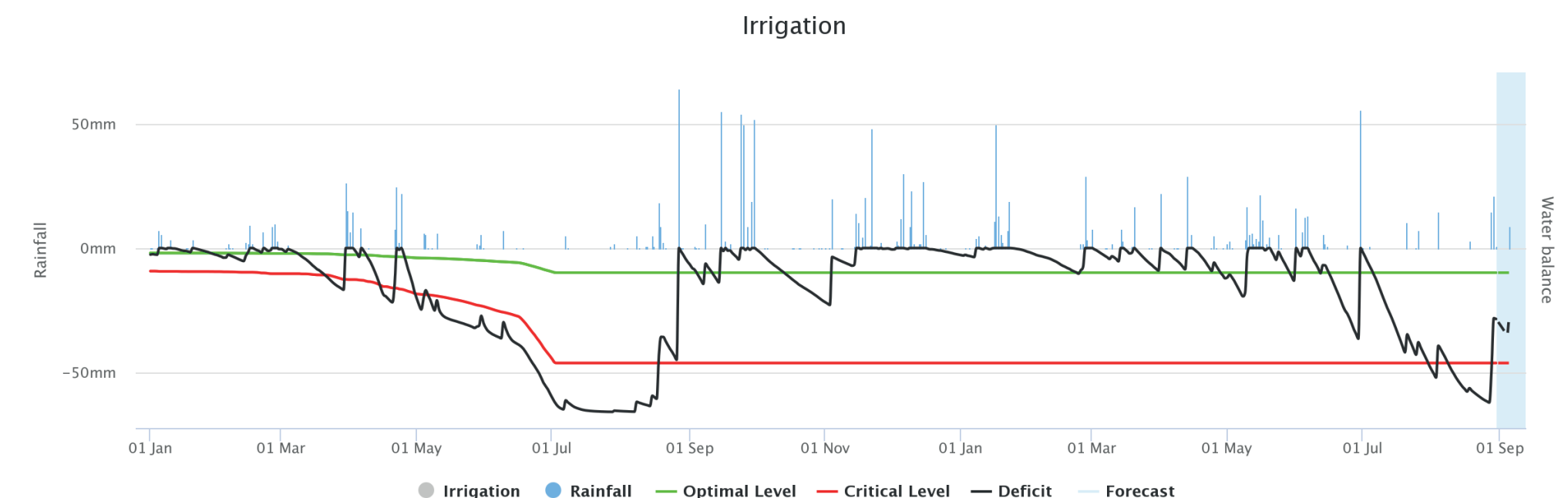
PHENOLOGY

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



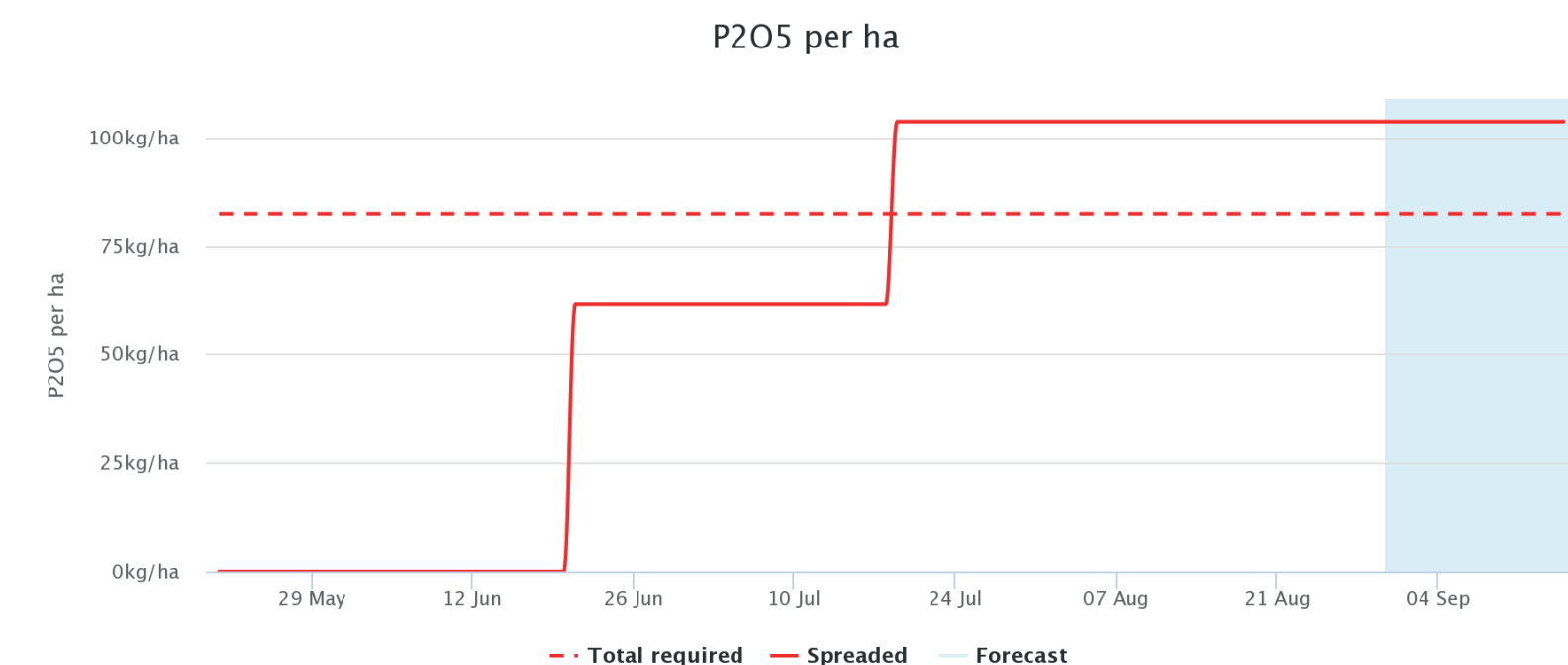
IRRIGATION

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

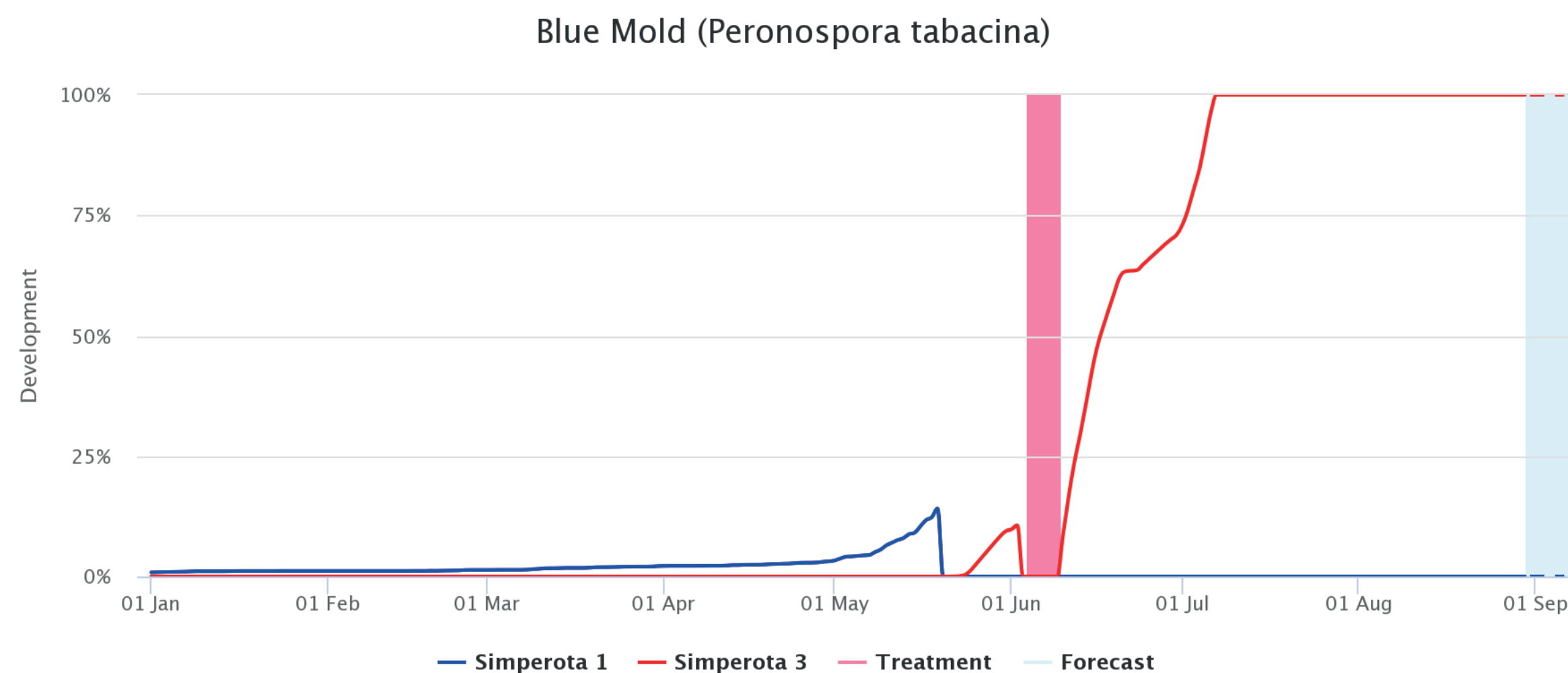
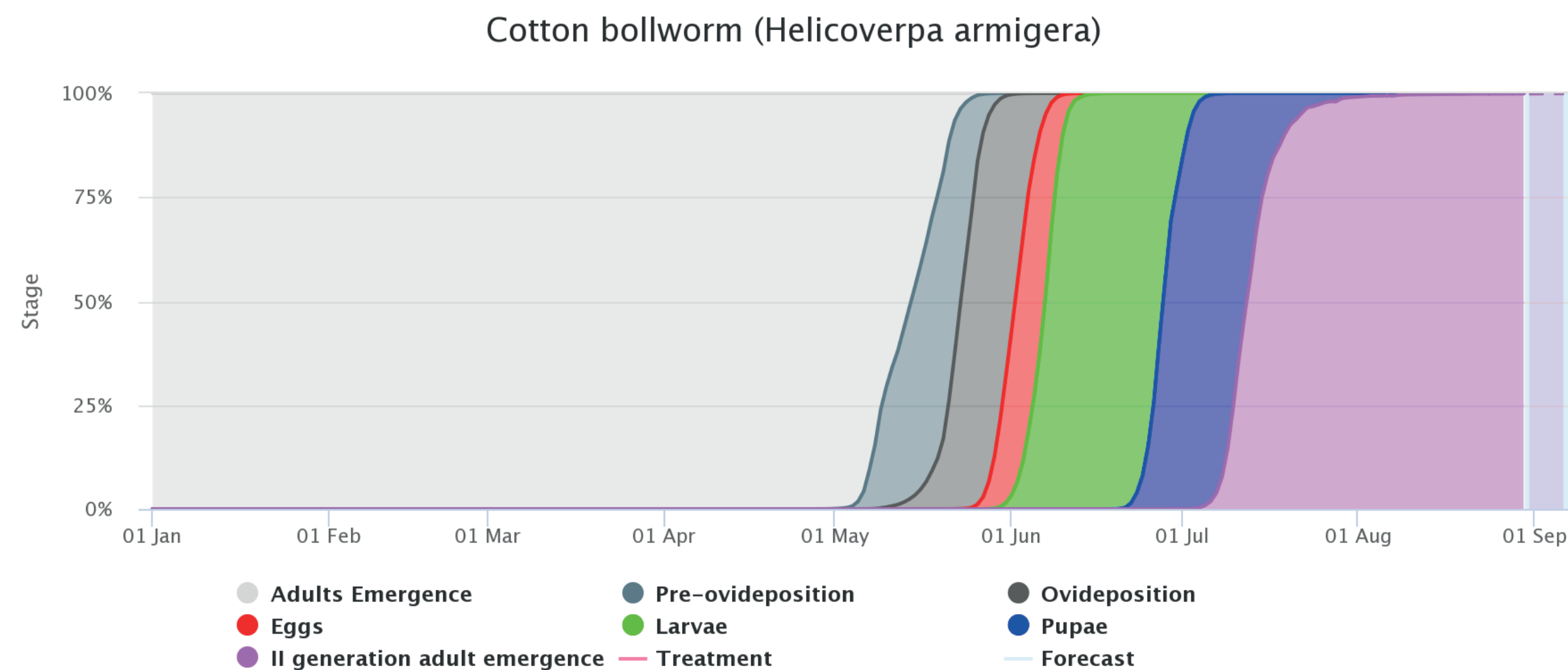


FERTILIZATION

Calculation of the total nitrogen, phosphorus and potassium needs (Kg/ha) required by the crop in order to obtain important suggestions on the doses of fertilizer to be applied.



FEATURES



PHYTOPATHIES AND INSECTS MODEL

Prediction of infestations and diseases to assess the risk of pest (***Helicoverpa armigera***) and diseases (***Peronospora***) and act promptly. The defense forecast models interact with the registered treatments.

FEATURES



DECISION SUPPORT

Suggest operations to be carried out based on collected data.



ALERTAS DE MODELOS DE DEFENSA DEL TABACO.

PREDICCIÓN DE INFESTACIONES DE ENFERMEDADES DE PLANTAS E INSECTOS

0 % Presence
2.00 % Damage intensity
Insect

RISK DEGREE LEGEND

Medium risk
Alarm level

No risk

Check the adult presence
Cotton bollworm (Helicoverpa armigera)



2 leaves (BBCH 11)



FIELD ACTIVITIES ENTERED BY THE USER AND INTEGRATED INTO THE PHENOLOGY FORECAST MODEL



12-HOUR FORECAST



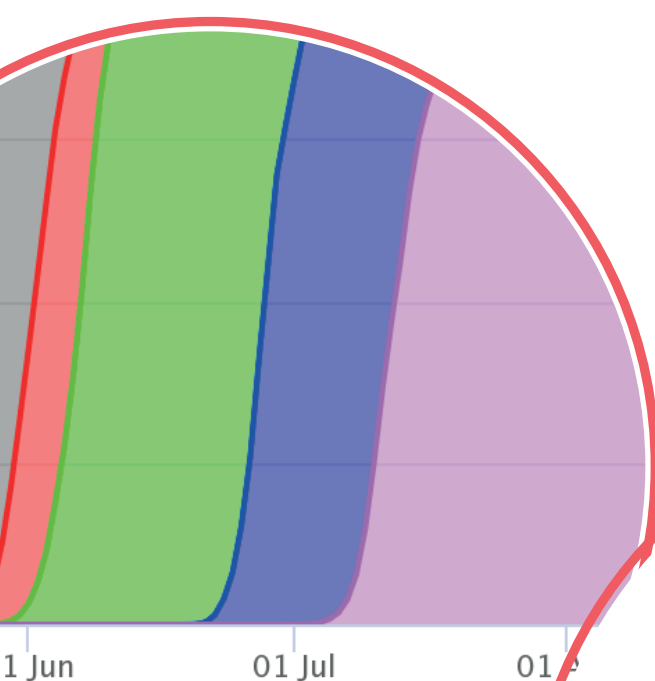
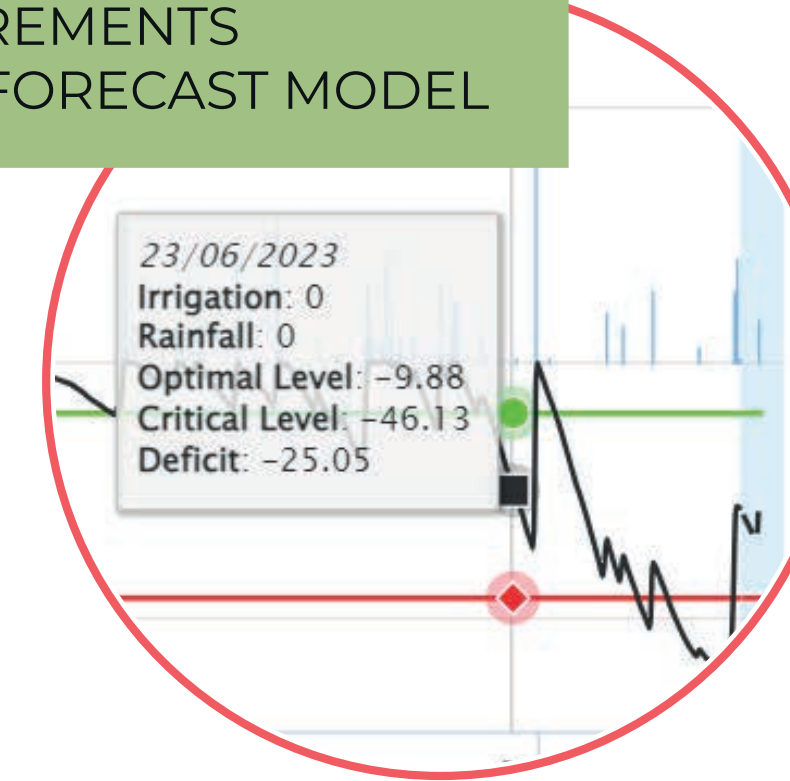
next 12 hours forecasting

0.00 mm
Irrigation requirements

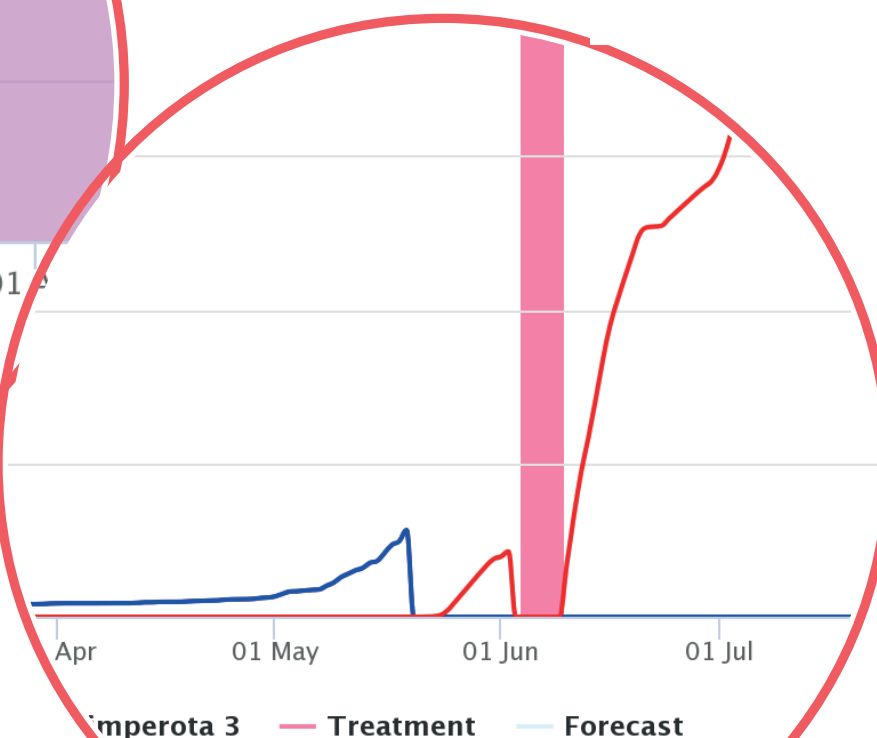


ESTIMATE OF IRRIGATION REQUIREMENTS FROM FORECAST MODEL

23/06/2023
Irrigation: 0
Rainfall: 0
Optimal Level: -9.88
Critical Level: -46.13
Deficit: -25.05



Ovideposition
Pupae
Forecast







TOBACCODSS





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 INDICATORS

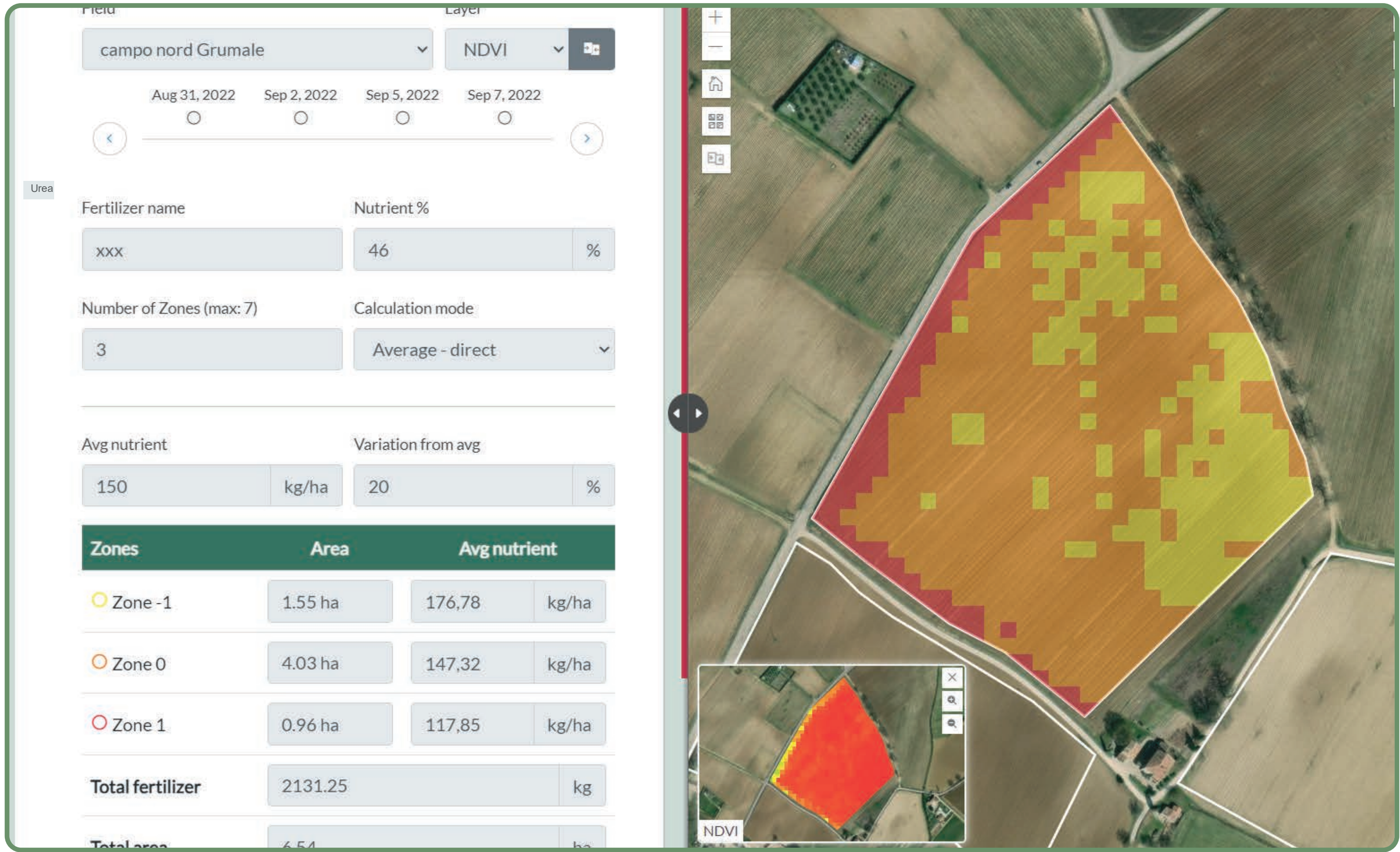
ENVIRONMENTAL ?

Environmental indicators focus on the impact of agricultural practices on the surrounding environment

Water

Indicator	Value	Target	Status	
Total water consumption	20899.38 m ³	Less than 459781.50m ³		
Average water consumption	7404.53 m ³ /ha	Less than 7500.00m ³ /ha		
Water use efficiency	0 m ³ /t			

FEATURES



PRESCRIPTION MAPS

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

FEATURES



WORK



TASK MANAGEMENT

Create and assign tasks to be done in the farms to your collaborator in real time.



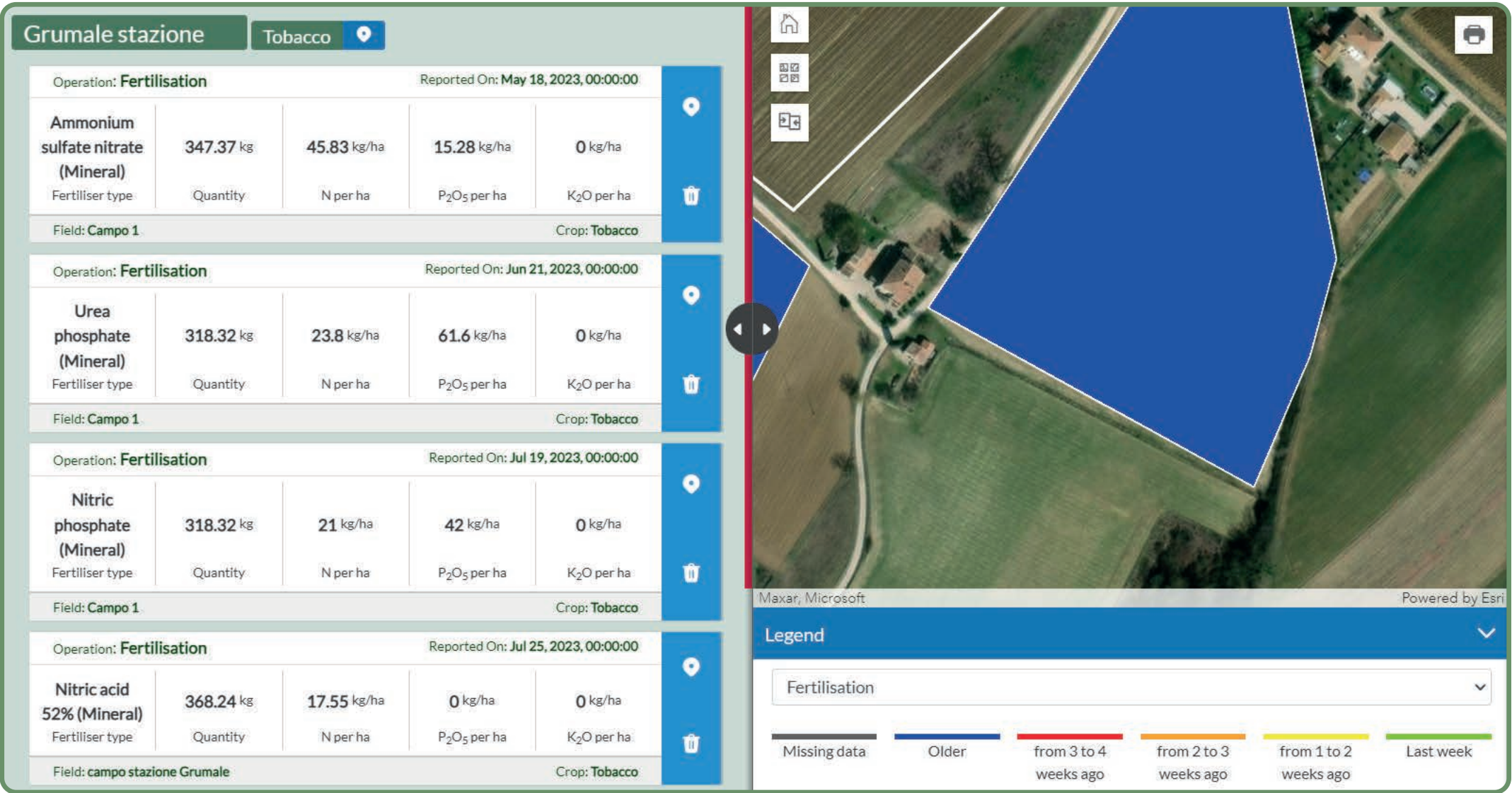
CROP OPERATIONS

Register where, how and when crop operations (treatments, fertilization, pruning, harvest) have been carried out. You can also access phytosanitary products database.



MACHINERY

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



Lot code: 001a1



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

Landing page

<https://web.agricolus.co>



[Visit page](#)



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.

FEATURES



CROP SCOUTING

Geolocate and register data from crop scouting by using the **mobile App** for phytosanitary monitoring and evaluation of crop development.



- ! ISSUES
- ⚠ DAMAGES
- 🕒 TRAPS
- 📷 CATCHES
- 🌱 PHENOLOGY
- 🐛 PESTS AND DISEASES
- 🧪 SOIL ANALYSIS

FEATURES



WEATHER



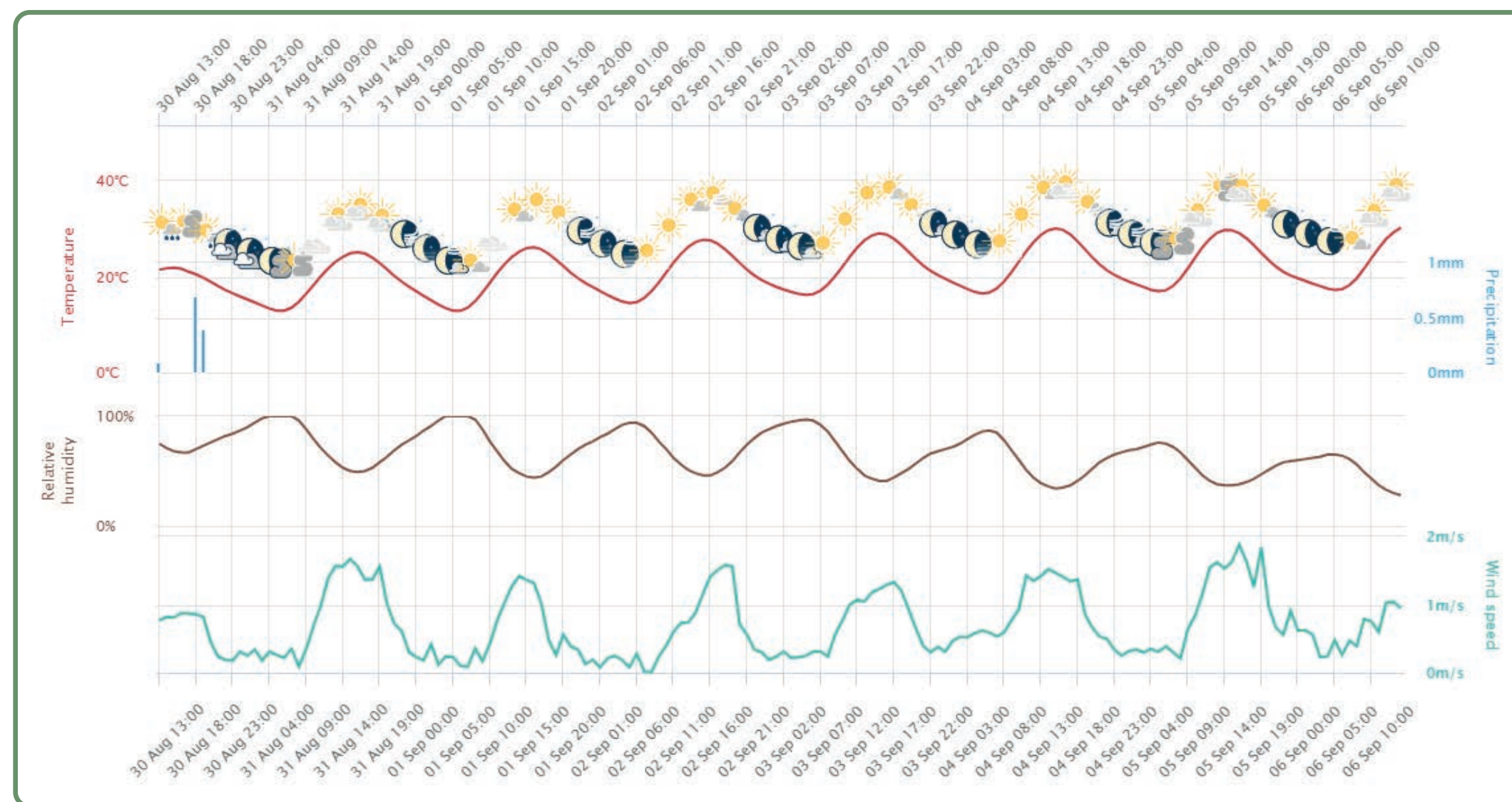
WEATHER FORECASTS

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



WEATHER STATIONS

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



30 Aug 09:00

Temperature : 18.24 °C

Temperature (Min-Max) : 16.72 / 20 °C

Precipitation : 0 mm

Cumulative precipitation (30 Aug 00:00–30 Aug 23:59) : 0.60 mm

Leaf wetness : 60 min

Relative humidity : 89.81 %

Relative humidity : 81.04 / 96.3 %

Wind speed : 0.3 m/s

Wind speed (Min – Max) : 0.3 / 0.8 m/s



TOBACCO DSS

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