

Enhance your **VINEYARD**

SATELLITE
IMAGERY



FORECAST
MODELS

TASK
MANAGEMENT



FIELD
MAPPING



CROP
SCOUTING

GRAPEDSS

POWERED BY
AGRICOLUS



Increase the quality
and quantity
of grapes



Reduce management
costs of the
vineyard



Prevent the
spread of stress
and diseases



Optimize the
use of water



Monitor the
vineyard, 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

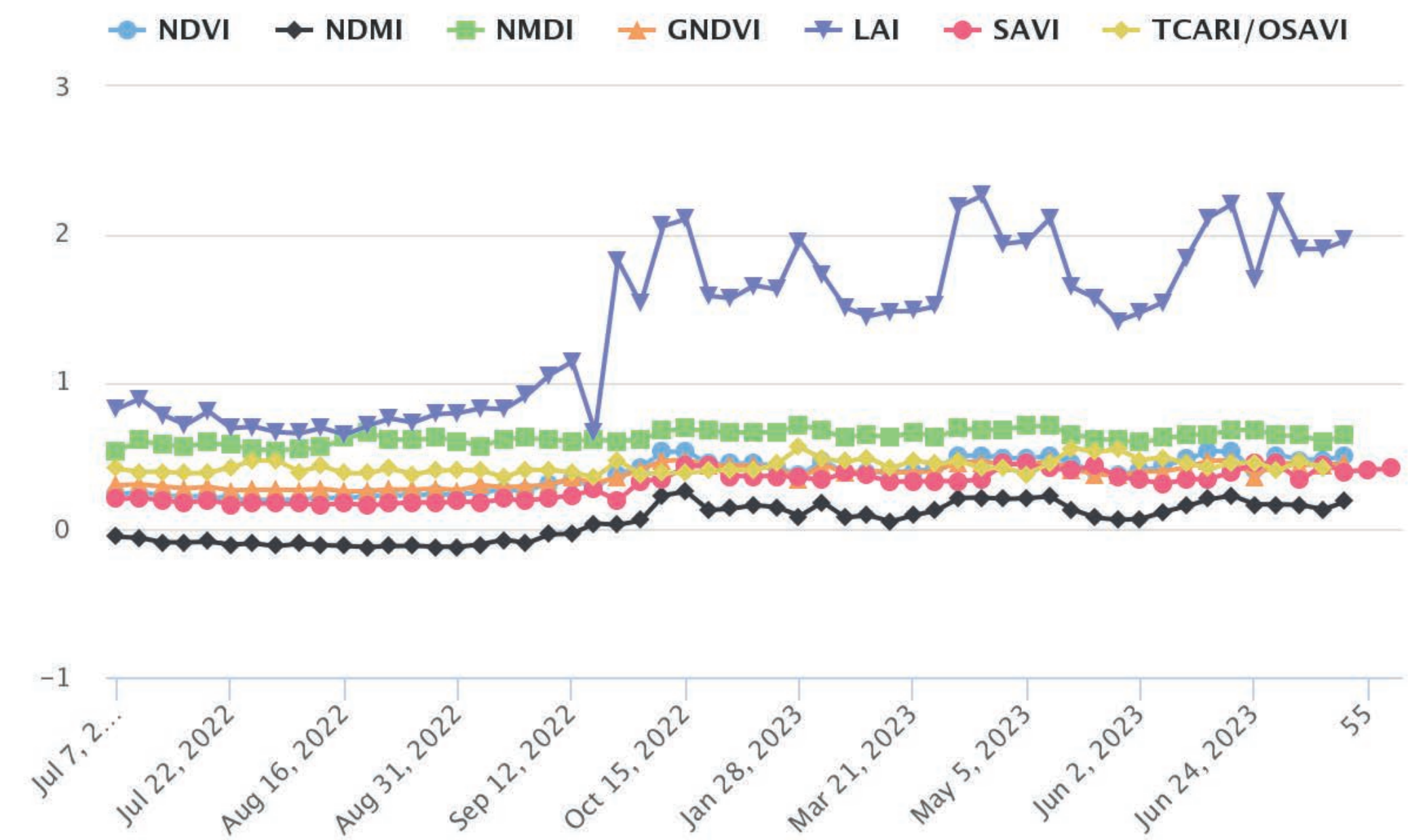
Upload a .shp or .kmz file.

✓ Select



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

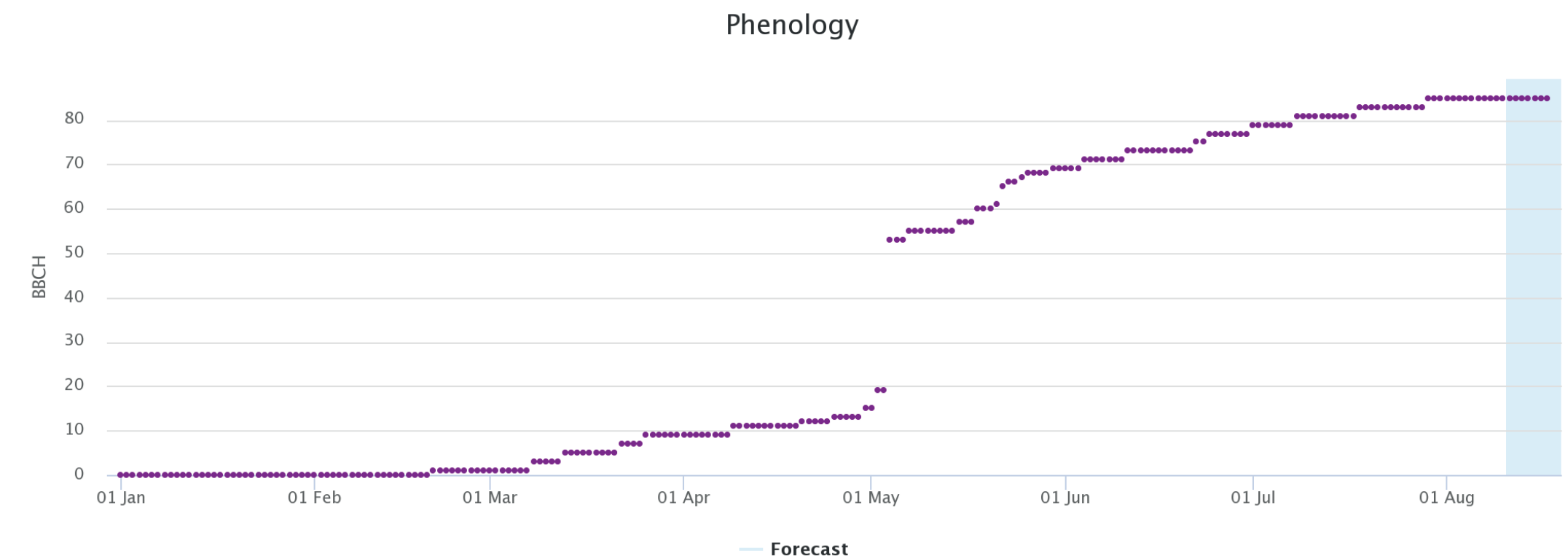


FORECAST MODELS



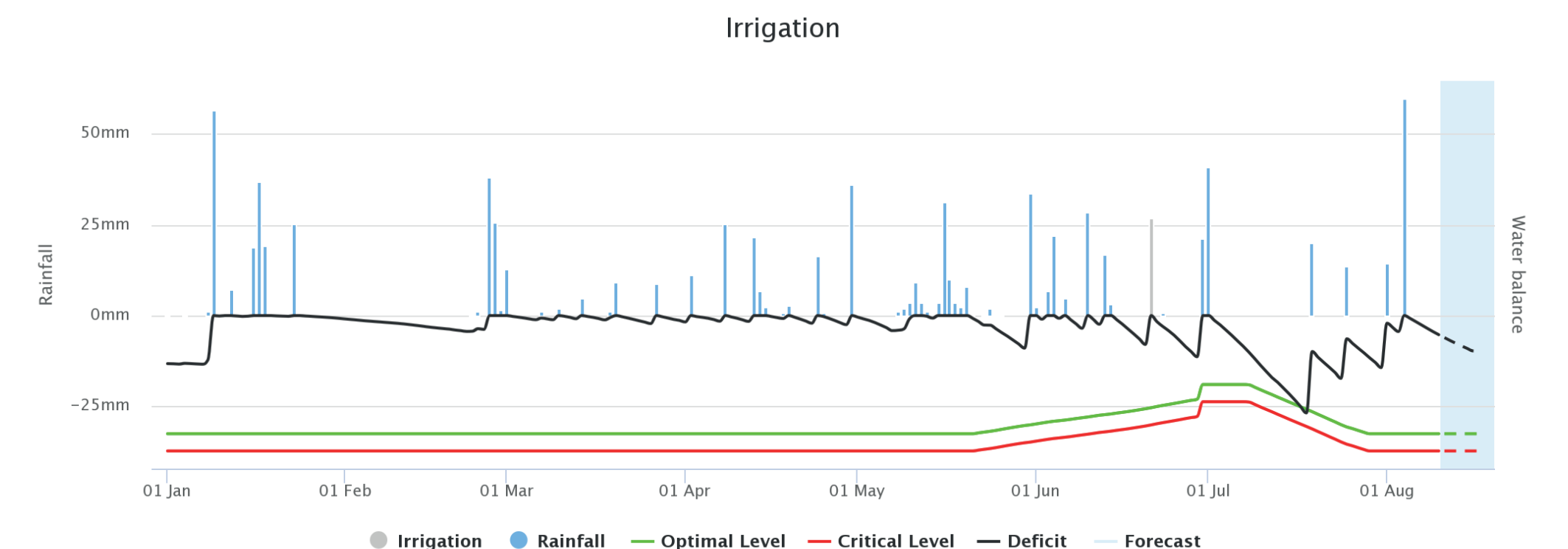
PHENOLOGY

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



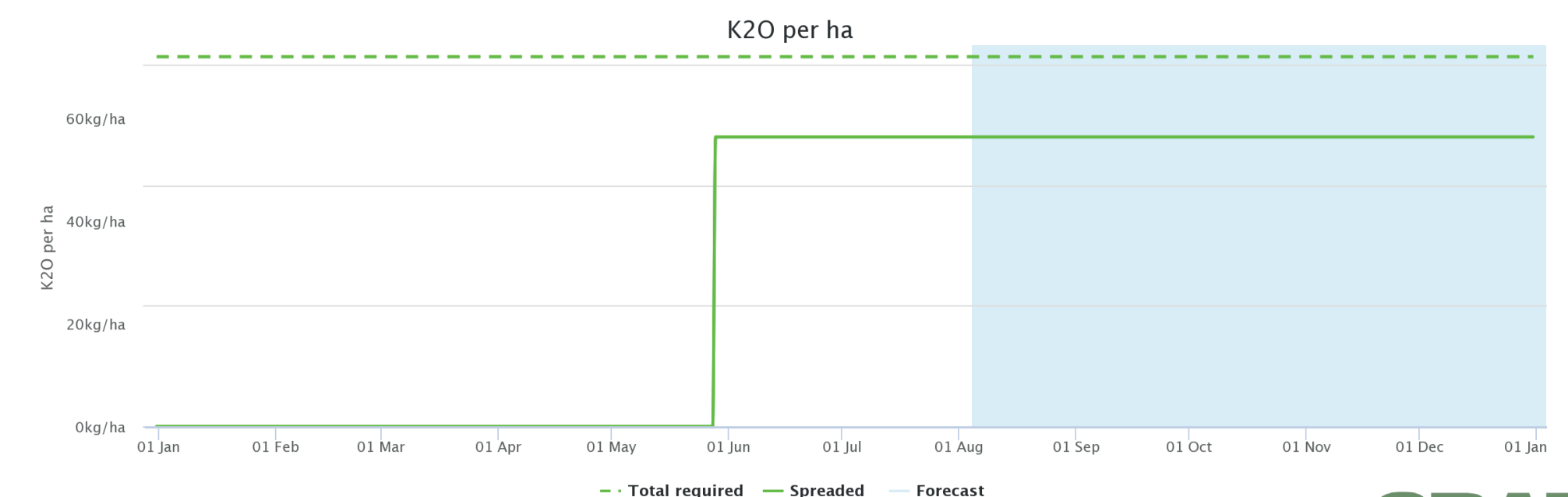
IRRIGATION

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

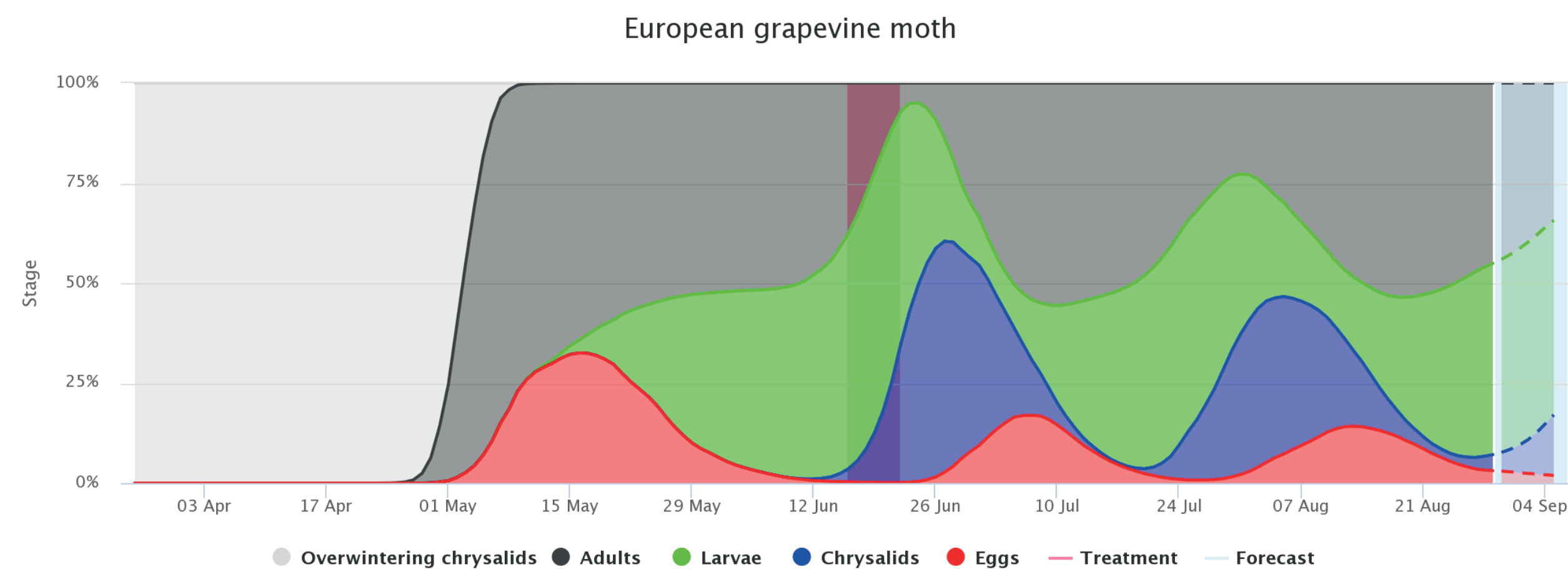
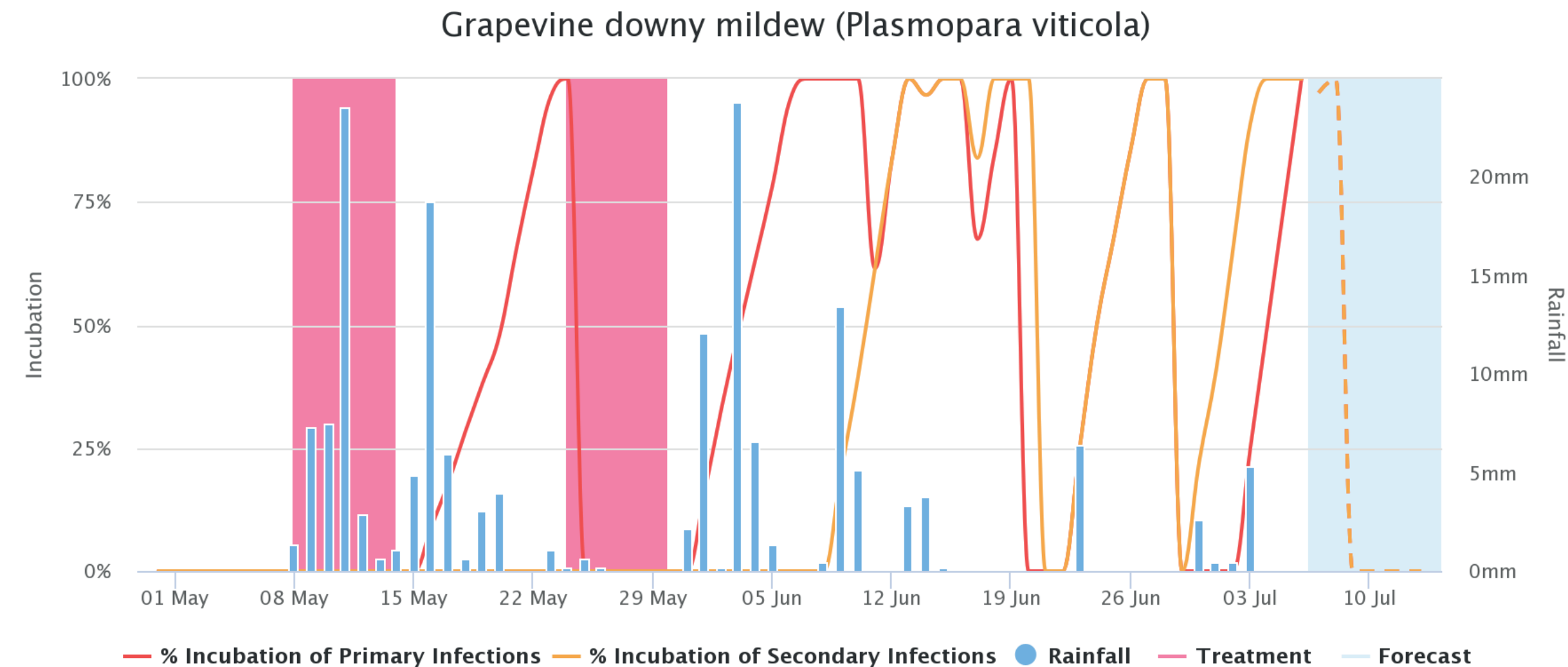


FERTILIZATION

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

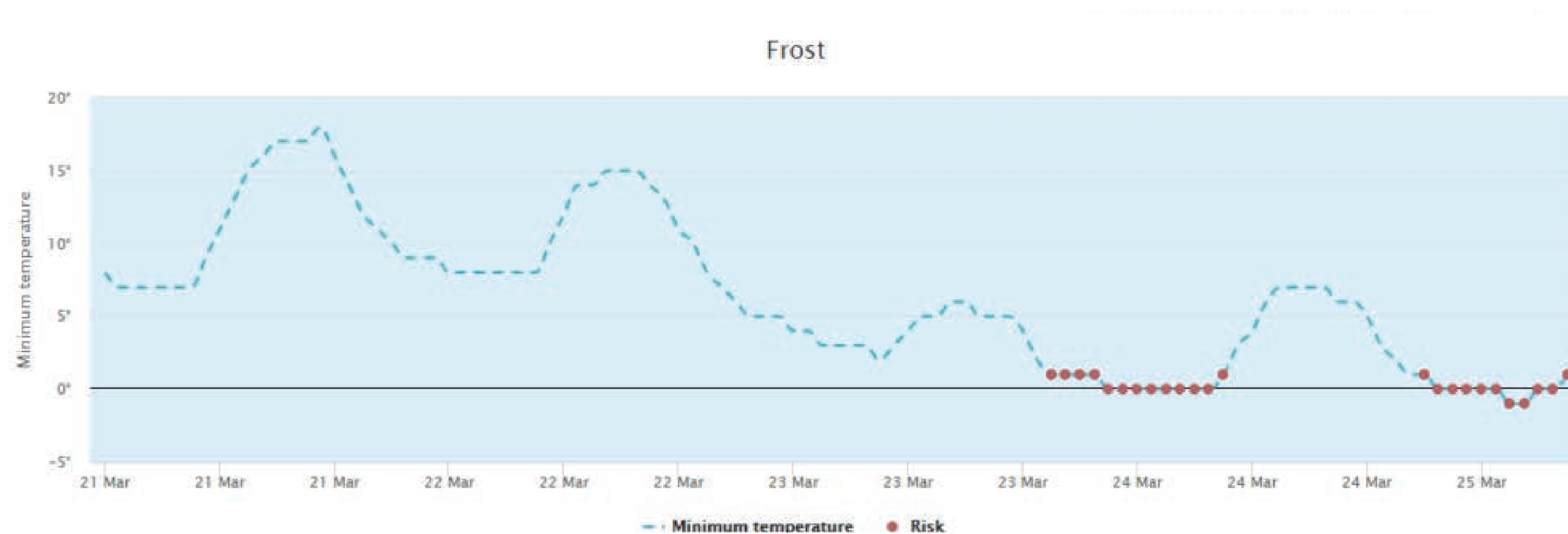


PHYTOPATHIES AND INSECTS MODEL

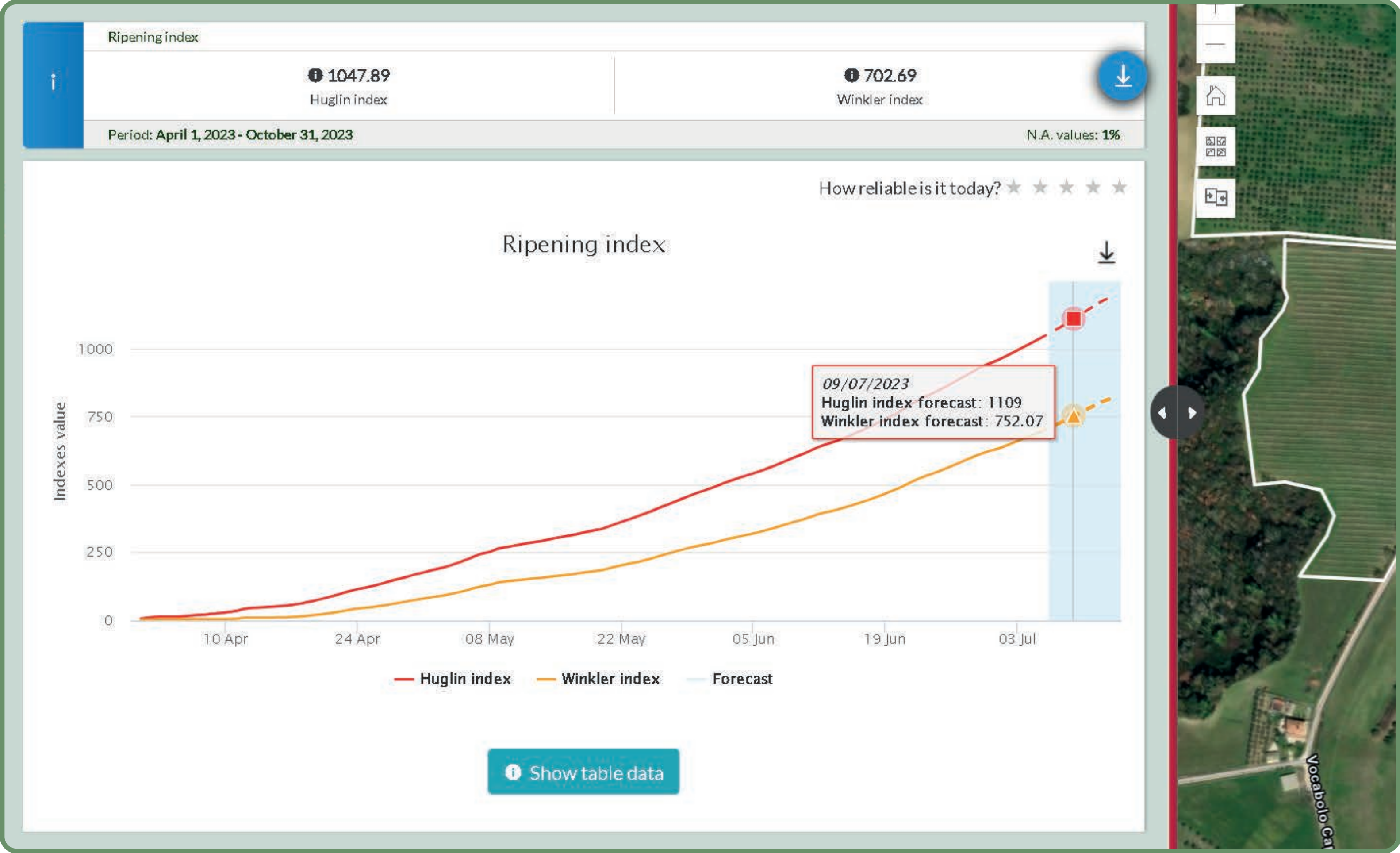
Prediction of infestation and diseases to assess the risk of pest (**Lobesia botrana**) and diseases (**Peronospora, Powdery mildew, Botrytis cinerea**) and act promptly. The defense forecast models interact with the registered treatments.



FROST FORECAST MODEL



Frost forecast to know in advance (**up to 7 days before**) the harmful climatic event and the type of risk.



RIPENING FORECAST MODEL

Prediction of ripening to identify the best time for harvest and produce excellent wine.

FEATURES



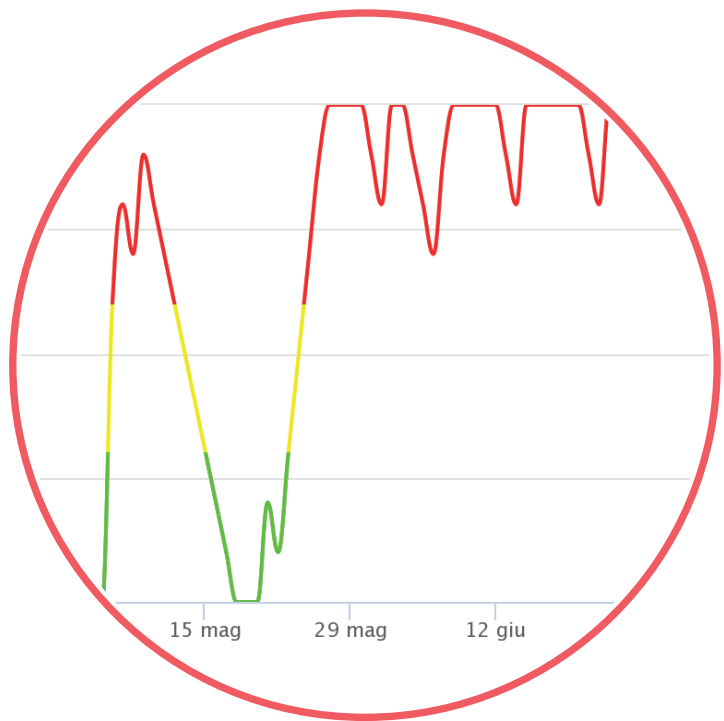
DECISION SUPPORT

Suggest operations to be carried out based on collected data.



ALERTS FROM DEFENSE
MODELS FOR THE VINE

PREDICTION OF
INFESTATIONS OF
PLANT DISEASES
AND INSECTS



RISK DEGREE LEGEND

● High risk
Alarm level

1.33 Adults
Vine moth

No risk
European grapevine moth

100 % Presence
54.00 % Damage intensity
Fungus

High risk
Fungicide every 21 days and sulfur or
other antioïd every 12 -21 days
Grape Powdery mildew

No risk
No infections started
Grapevine downy mildew



next 12 hours forecasting

1056.45 Huglin
692.75 Winkler
ripening

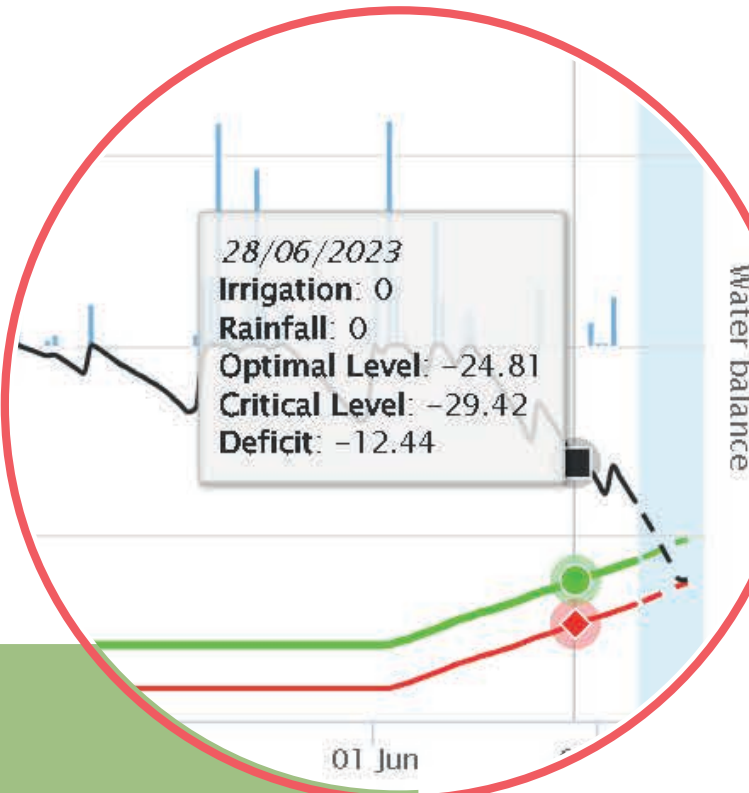
0.00 mm
idro requirements



12-HOUR FORECAST



ESTIMATE OF
FRUIT RIPENING



ESTIMATE OF
IRRIGATION
REQUIREMENTS
FROM FORECAST MODEL

👁 Berries pea-sized, bunches hang (BBCH 75)







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





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

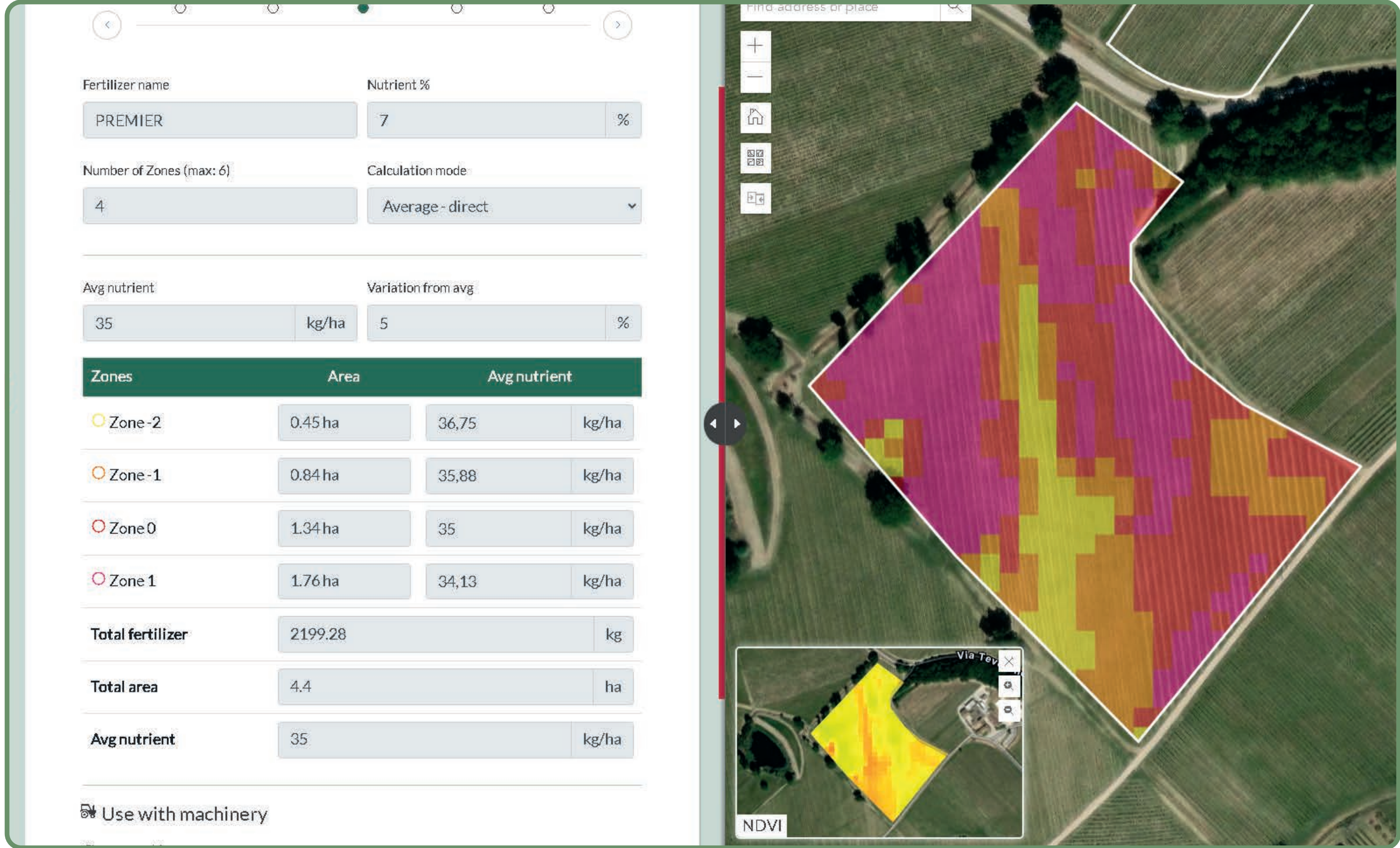
ENVIRONMENTAL ?

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.



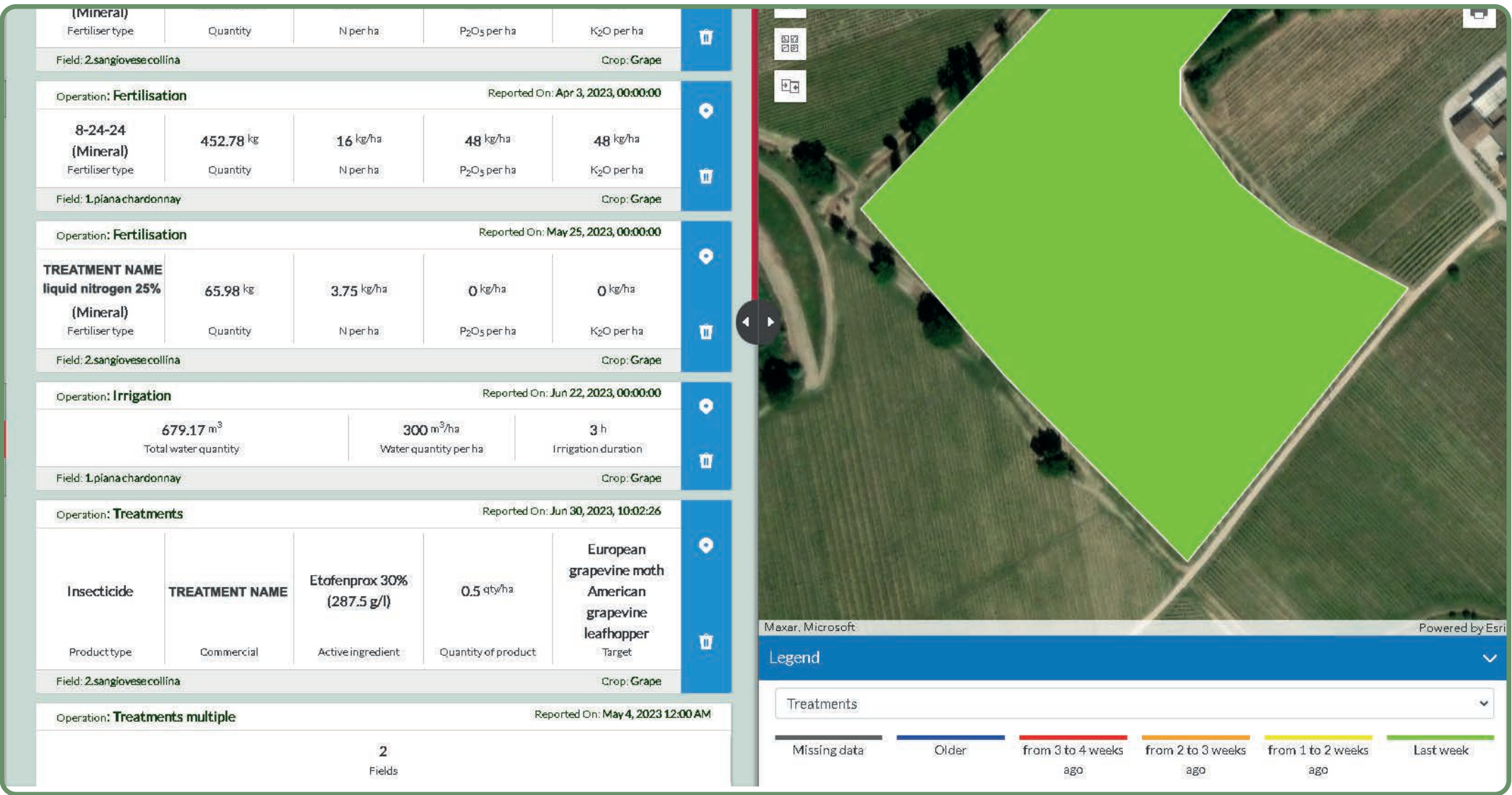
MACHINERY

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



CROP OPERATIONS

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



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 quality and quantity.



- ! ISSUES
- ! DAMAGES
- TRAPS
- CATCHES
- PHENOLOGY
- PESTS AND DISEASES
- SOIL ANALYSIS
- ★ QUALITY ESTIMATION
- ⚖️ QUANTITY ESTIMATION

FEATURES



WEATHER



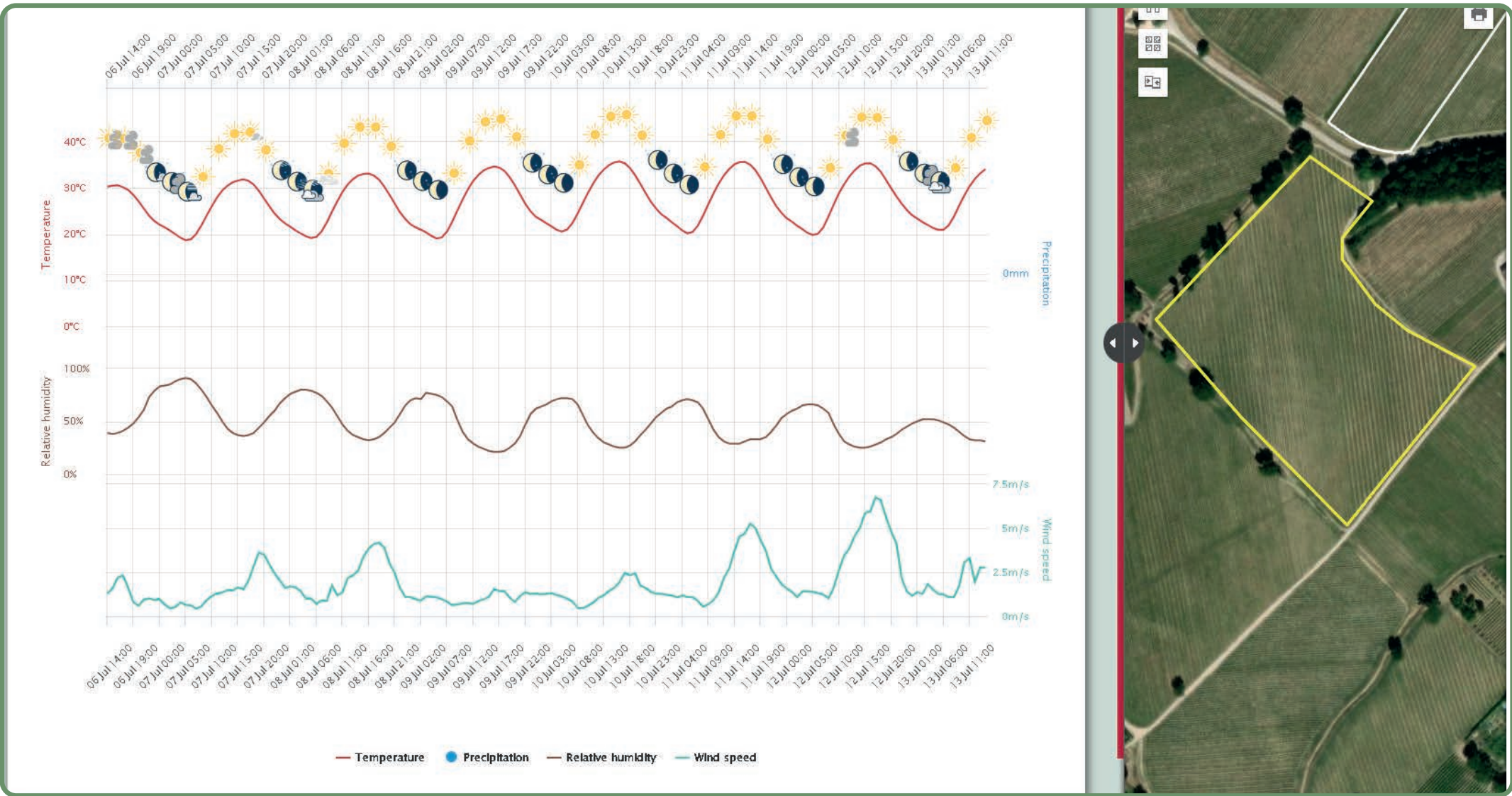
WEATHER FORECASTS

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.



08 June 2023

Temperature : 22.39 °C

Temperature (Min-Max) : 14.8 / 30.6 °C

Precipitation : 0 mm

Cumulative precipitation (06 Jun 00:00–06 Jul 23:59) : 18.00 mm

Leaf wetness : 0 min

Relative humidity : 74.47 %

Relative humidity : 44.82 / 99.2 %

Wind speed : 0.74 m/s

Wind speed (Min – Max) : 0 / 2.9 m/s



YIELD AND QUALITY MONITORING

Bunches count, thinning estimate, potential alcohol calculation and ripening index.

Vigneto CC4S (Grape)

Sample date
28 Jun 2023

Sample identifier
179-293-1

Fields
Vigneto CC4S

Select a point in the map

pH

4

Total acidity

3

g/l

Brix degree

19

°Brix

Babo degree

16,15

°Kmw

Baume degree

10,51

°Bé

Potential alcohol

10,62

%

Ripening Index

6,33

Note

Find address or place

QUANTITY ESTIMATION

Sample identifier: G#179-286-1

Sample date: Jun 28, 2023

5

123.338

0%

10t/ha

No

-

Number of bunches

Bunch weight

Weight increment

Expected yield

Suggested thinning

Bunches to leave

Field: Vigneto CC04

Grape Varieties: Sangiovese

Find address or place



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