DEFENCE and MONITORING of the CITRUS GROVES





YIELD AND QUALITY MONITORING





Increase the quality and quantity of citrus fruits



Reduce management costs







POWERED BY

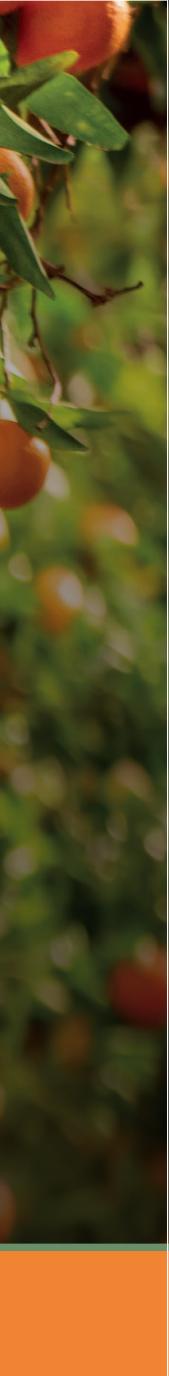


Prevent the spread of harmful insects and diseases





Monitor the status of citrus groves, also remotely



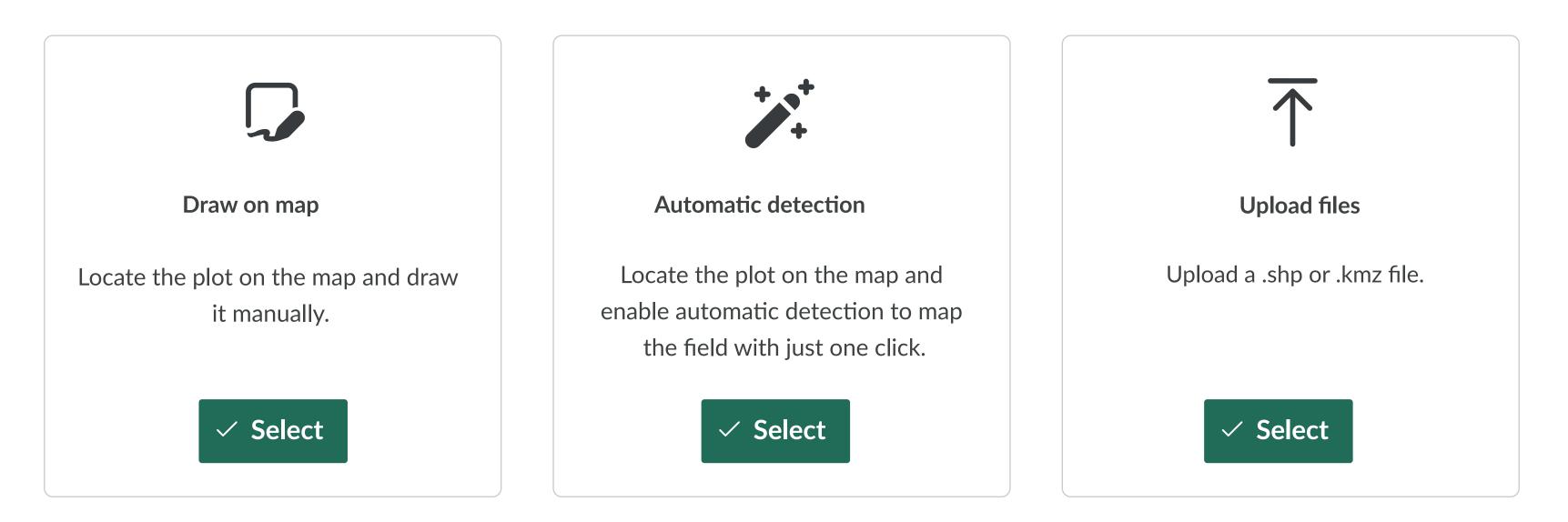




FIELD MAPPING

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.









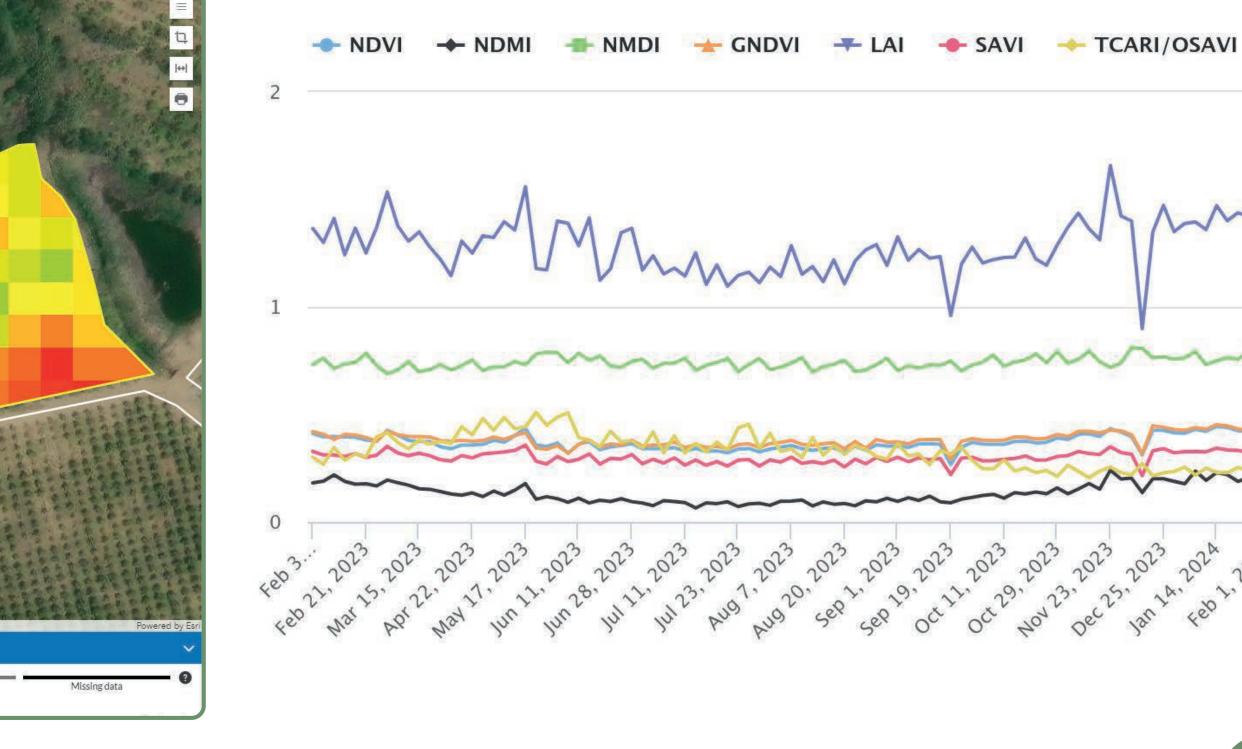


SATELLITE IMAGERY

indices to assess the health of the crop and plan monitoring activities.

* O			19,2024 Jan 22, 100% ●	2024	Jan 24, 2024 O		
our indices	5						and the second s
NDVI			GNDVI				
Min:	Avg:	Max	Min:	Avg:	Max:		
0.36	0.44	0.50	0.38	0.45	0.50		
LAI		_	SAVI	_			
Min:	Avg:	Max:	Min:	Avg:	Max:		
1.06	1.40	1.69	0.27	0.33	0.39		
orophyll in	ndices						and the second se
TCARI/	OSAVI						
Min:	Avg:	Max:				The second for the se	
0.15	0.23	0.49					
ter stress i	indices						
NDMI		_	NMDI				
Min:	Avg:	Max:	Min:	Avg:	Max:	Maxas Microsoft	120.200
0.11	0.22	0.28	0.67	0.76	0.91	Maxar, Microsoft	202282Q
						Property Map	
storica							

Consult Sentinel-2 satellite images with vigor, water stress and chlorophyll

















PHENOLOGY

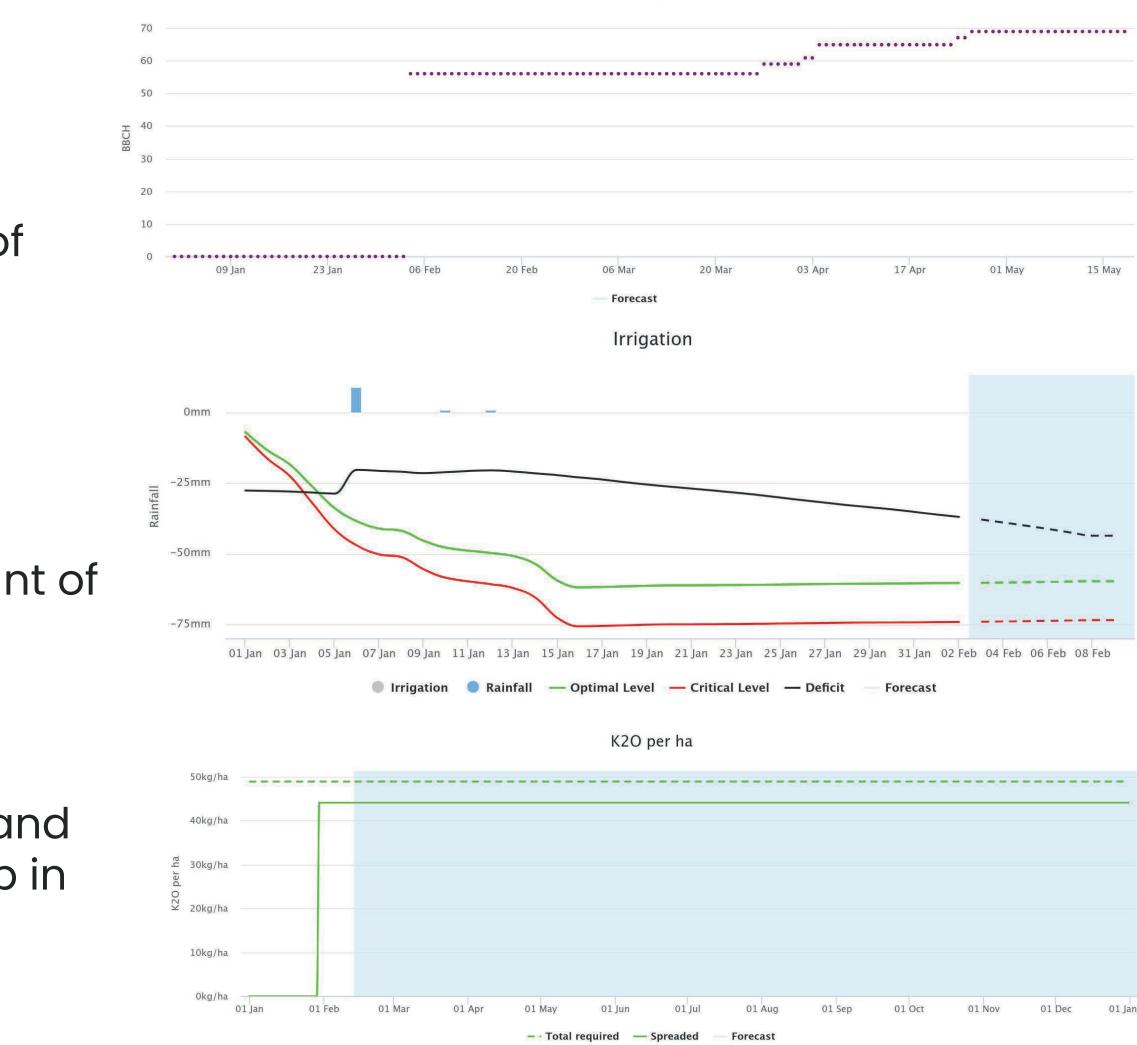
Prediction of phenology to assess the needs of the citrus grove in each development stage.

A 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.



Phenology

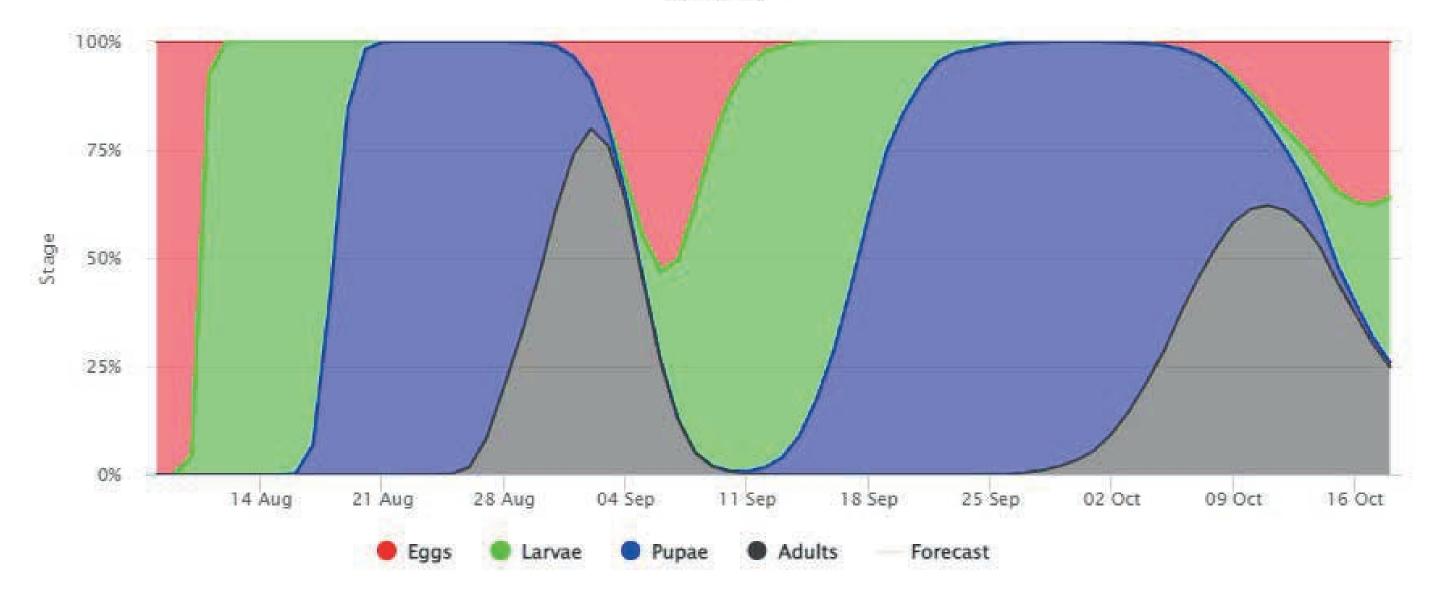
Water balanc



CITRL







Fruit fly

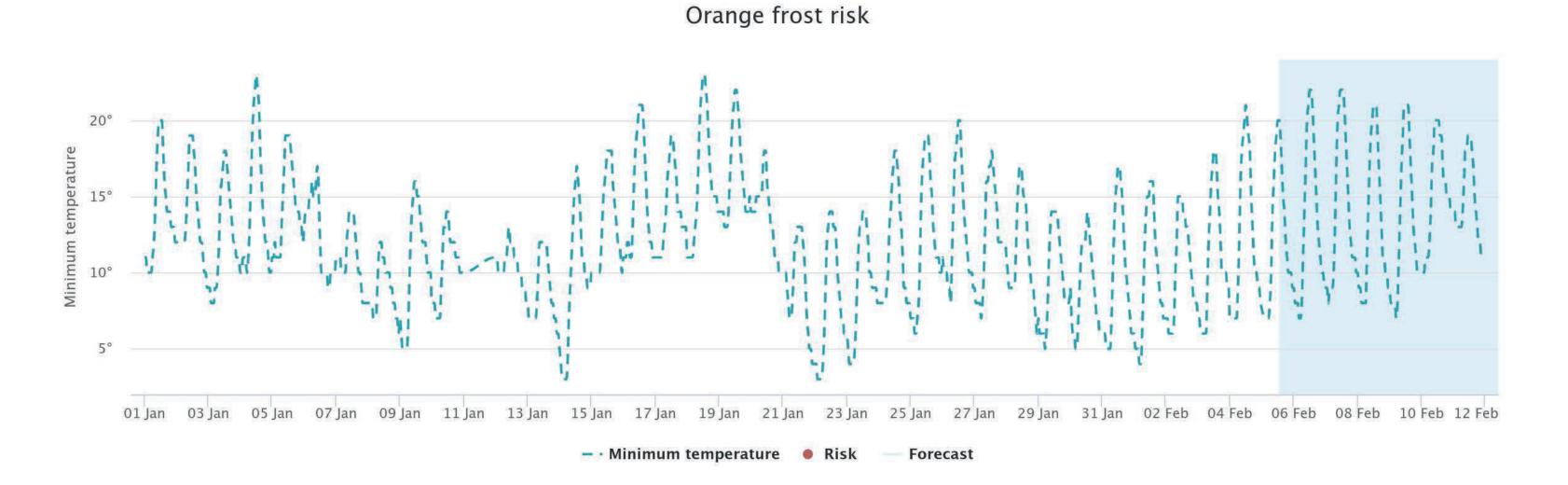
Prediction of infestation and diseases to assess the risk of pest (**Fruit fly**) and diseases (**Anthracnose**) and act promptly.











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



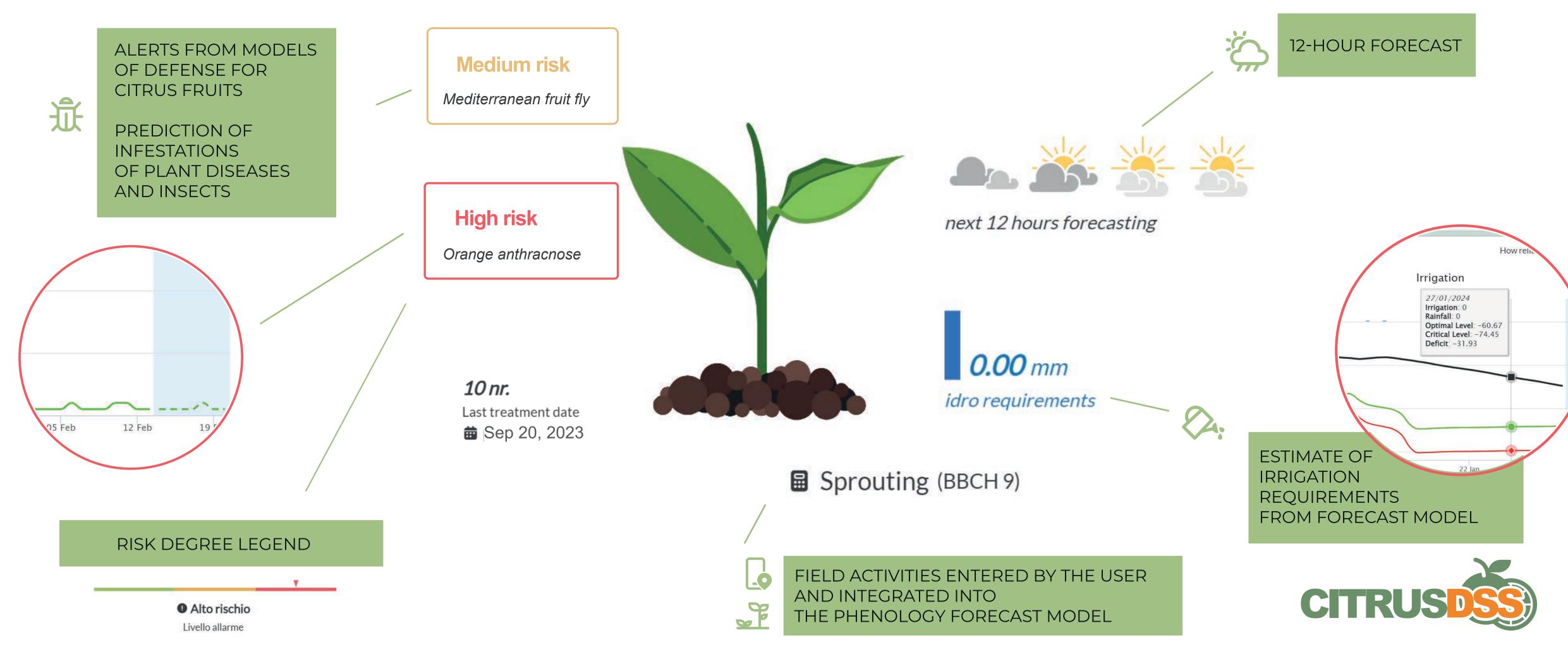






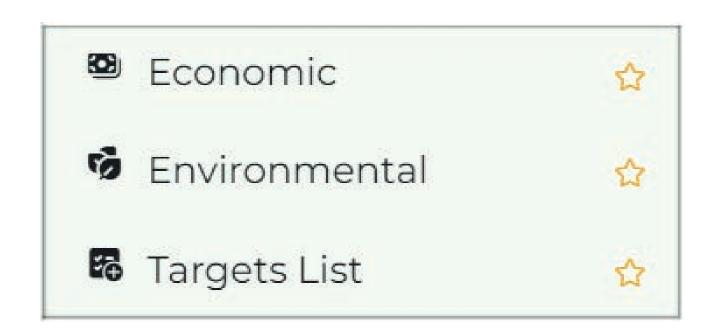
DECISION SUPPORT

Suggest operations to be carried out based on collected data.









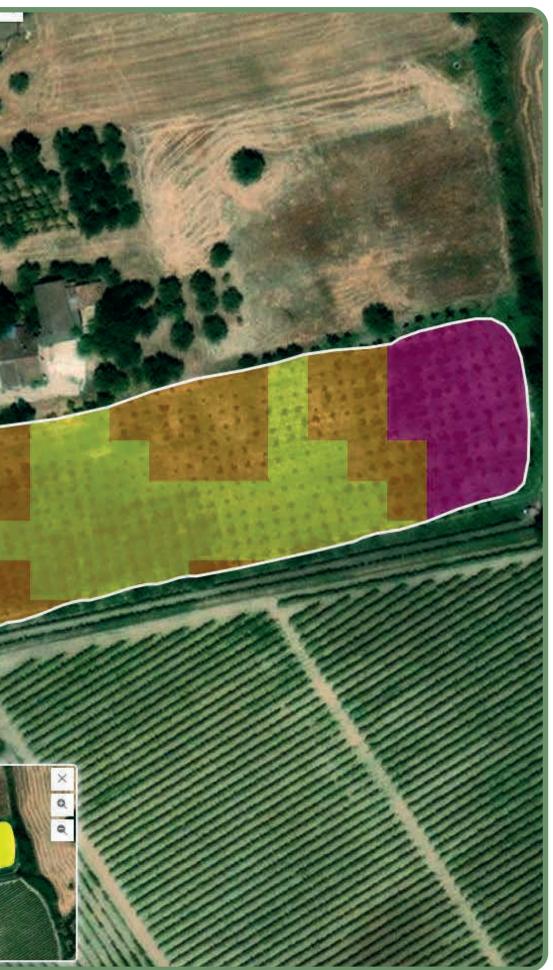
Monitor the economic (yield, production) and environmental (water consumption, input control and farm biodiversity) sustainability indicators of your farm. You can set the level to be reached for each indicator and monitor how the work is going.

ENVIRONMENTAL INDICATORS	ENVIRONMENTAL ()			
ironmental indicators focus on the impac	ct of agricultural practices on the surr	ounding environm	ent	
Water				
Indicator	Value	Target	Status	
		Less than	\bigcirc	
Total water consumption	20899.38 m ³	459781.50m ³	\odot	\sim
		Less than	0	
Average water consumption	7404.53 m ³ /ha	7500.00m ³ /ha	\odot	\sim
Materia affairea	0 m ³ /t			
Water use efficiency	0 m ⁻ /t			





FEATURES





PRESCRIPTION MAPS

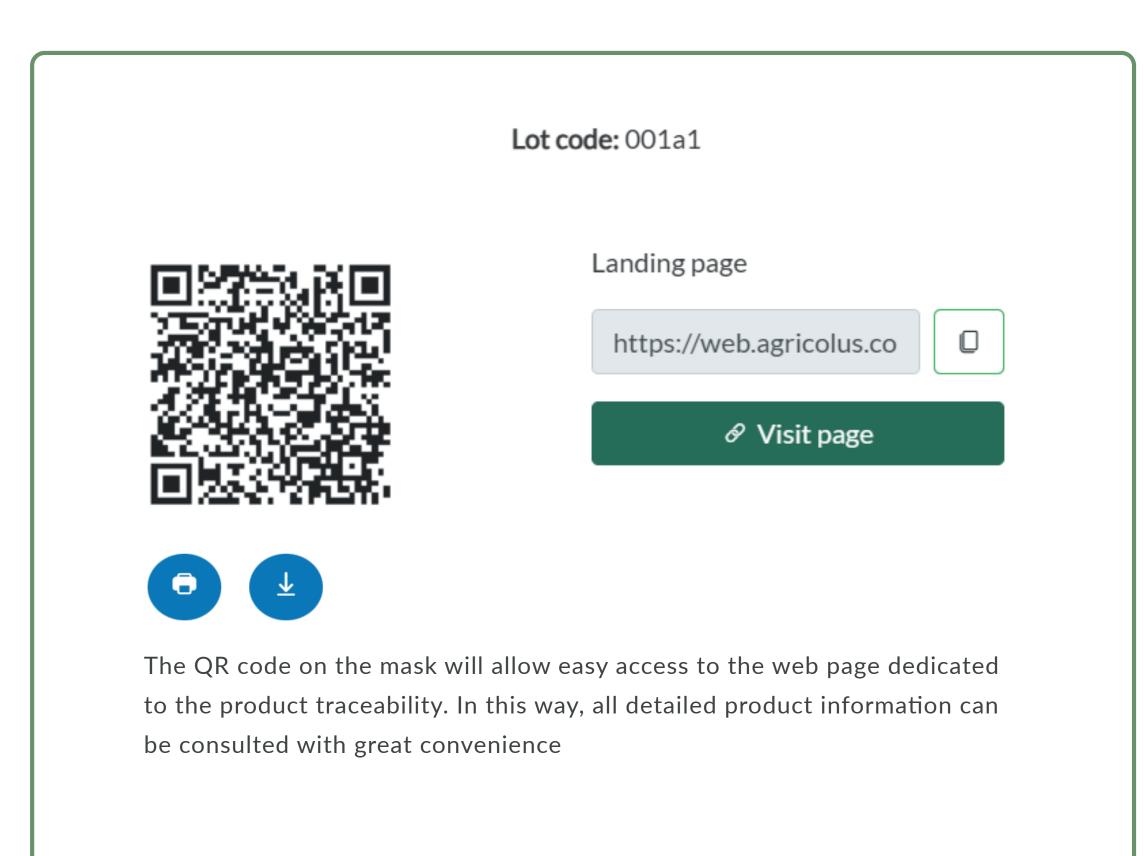
Choose the most suitable vegetation index to draw up the prescription map and carry out a variable rate fertilization.











PRODUCTION LOTS

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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.









YIELD AND QUALITY MONITORING

Sugar content, Total Titratable Acidity, sugar/acid ratio, color, peel integrity, presence of damage, abnormal external humidity and foreign odor and/or taste; caliber, diameter, weight and juice yield.

Sample date			8 8 D	
Fields				
Campo 1		×	20	
Sample identifier				
Ø 043-945-1				
j.	 Select a point in the map 			
Βαθμοί Βrix	23	*Brix		
Total acidity	20	g/l	-	
Acid sugar ratio	1,15	196		
Coloration	red		1	
eel integrity	No	· · ·		
Jamages	No	~		
External abnormal humidity	No	~		
Foreign taste and/or smell	Yes	~		
Note				

Sample identifier: 244-899-2			Sample date: Sep 1, 2	2023
10 Caliber	77: Diameter	9t Weight	8ª Yield juice	819
Field: Campo 11	(Linameter):	OWEIGHES		samot Da
Sample identifier: 244-892-1			Sample date: Sep 1, 2	2023
13 Caliber	335 Diameter	3s Weight	3s Vieldjuice	
Field: Campo 11	, chanister	UNERG.		samot D











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

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

P.5. 276	8	
Field: Tarocco Lempso - 2	Crop: Orange	ange dia
Operation: Canopy management	Reported On: Mar 25, 2021, 00:00:00	
Winter pruning Canopy management	Yes Pruning residue in field	
Field: Tarocco Lempso - 3	Crop: Orange	
Operation: Canopy management	Reported On: Mar 25, 2021, 00:00:00	
Winter pruning Canopy management	Yes Pruning residue in field	
Field: Tarocco Lempso - 5	Crop: Orange	
Operation: Canopy management	Reported On: Mar 25, 2021, 00:00:00	
Winter pruning Canopy management	Yes Pruning residue in field	
Field: Tarocco Lempso - 4	Crop: Orange	
eration: Canopy management Reported On: Apr 5, 2021, 00:00:		
Winter pruning Canopy manageme	-	
Field: Tarocco Lempso - B	Crop: Orange	
Operation: Canopy management	Reported On: Apr 5, 2021, 00:00:00	
Winter prunin Canopy manageme		
Field: Tarocco Lempso - 7	Crop: Orange	ange
Operation: Canopy management	Reported On: Apr 5, 2021, 00:00:00	
Winter prunin Canopy manageme		Maxar, Microsoft Powered b
Field: Tarocco Lempso - 6	Crop: Orange	range and a second s
Operation: Canopy management	Reported On: Dec 9, 2021, 12:40:56	40:56
Winter pruning Canopy management	Yes Pruning residue in field	Missing data Older from 3 to 4 weeks from 2 to 3 weeks from 1 to 2 weeks Last week ago ago ago









CROP SCOUTING

phytosanitary monitoring and evaluation of quality and quantity.





QUANTITY ESTIMATION भुष

QUALITY ESTIMATION

- SOIL ANALYSIS Д
- PESTS AND DISEASES ŢŢ

CATCHES

- PHENOLOGY
- DAMAGES \gg TRAPS
- ISSUES

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Geolocate and register data from crop scouting by using the mobile App for





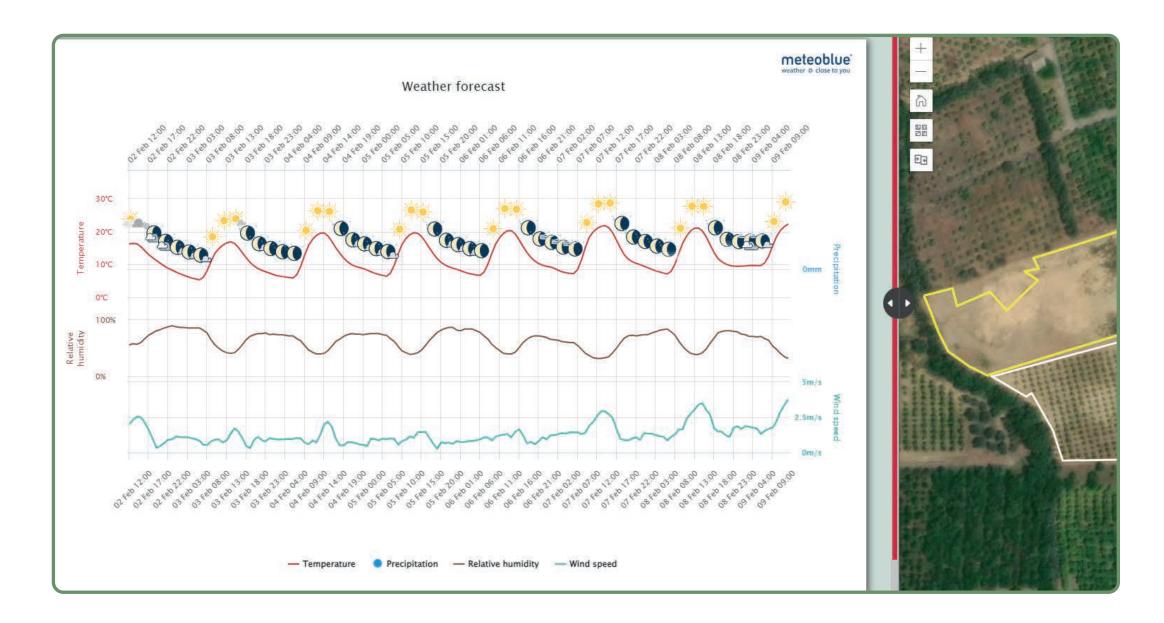


WEATHER



WEATHER FORECASTS

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



WEATHER STATIONS

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

02 Feb 04:00 Temperature : 5.93 °C Precipitation : 0 mm Cumulative precipitation (02 Feb 00:00-02 Feb 23:59) : 0.00 mm Relative humidity: 81 % Wind speed: 0.84 m/s







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