CITRUSDE

DSS for citrus cultivation



Why choose CIRUSD



Increase the quality and quantity of citrus fruits

Monitor the status of citrus groves, also remotely



Defend

in advance from pests and diseases

Intervene promptly in case of frost



Reduce management costs





Opimize

the use of inputs (water, treatments, fertilizers)

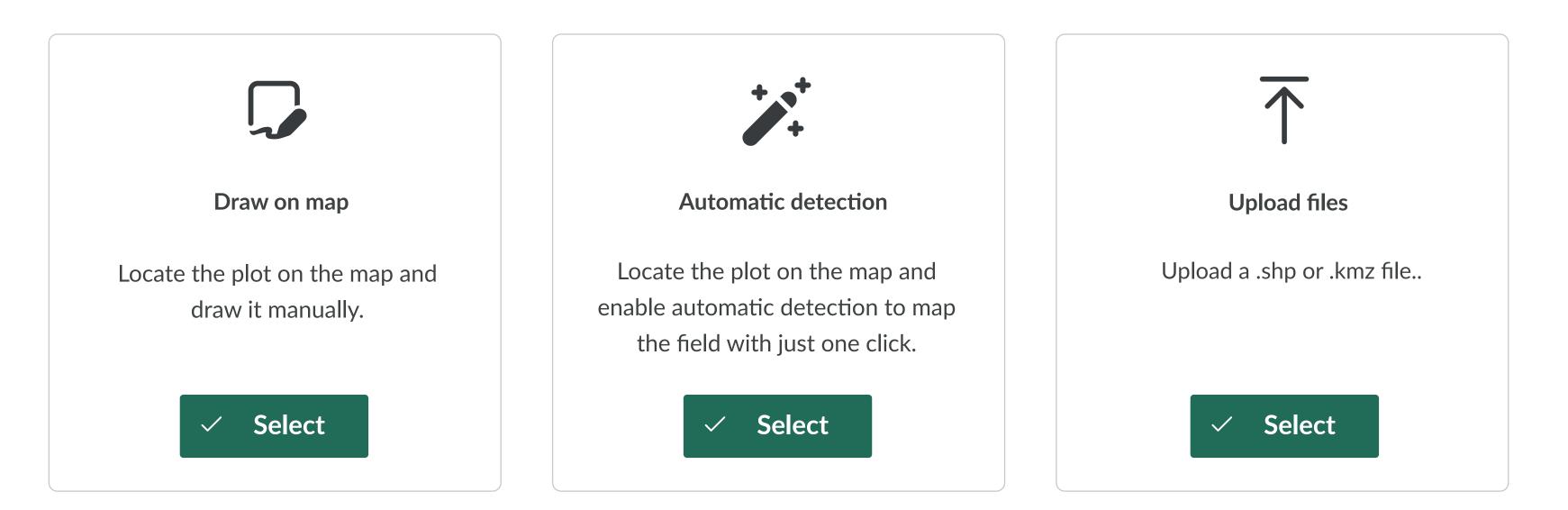


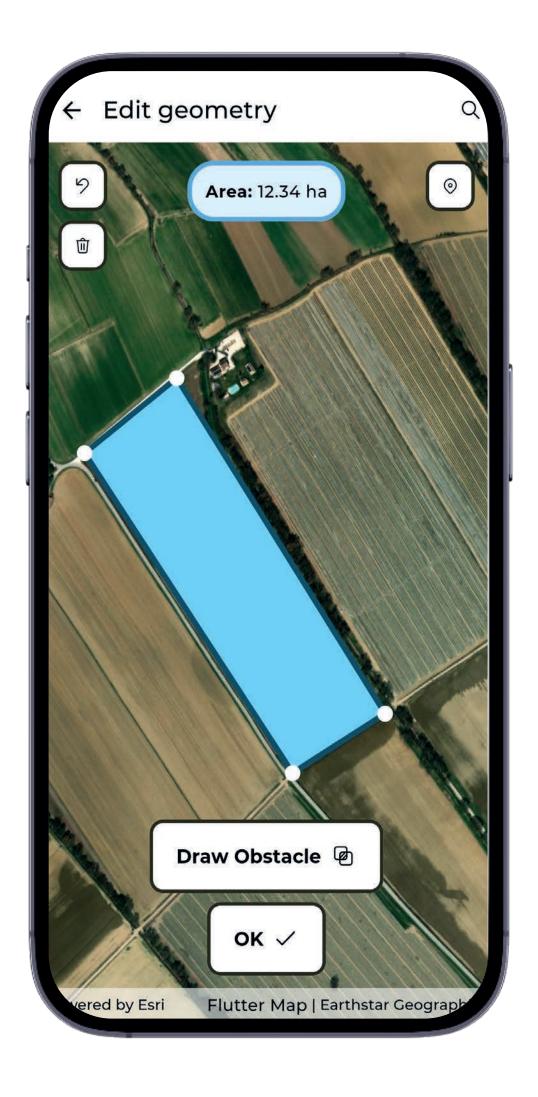


FIELD MAPPING

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.





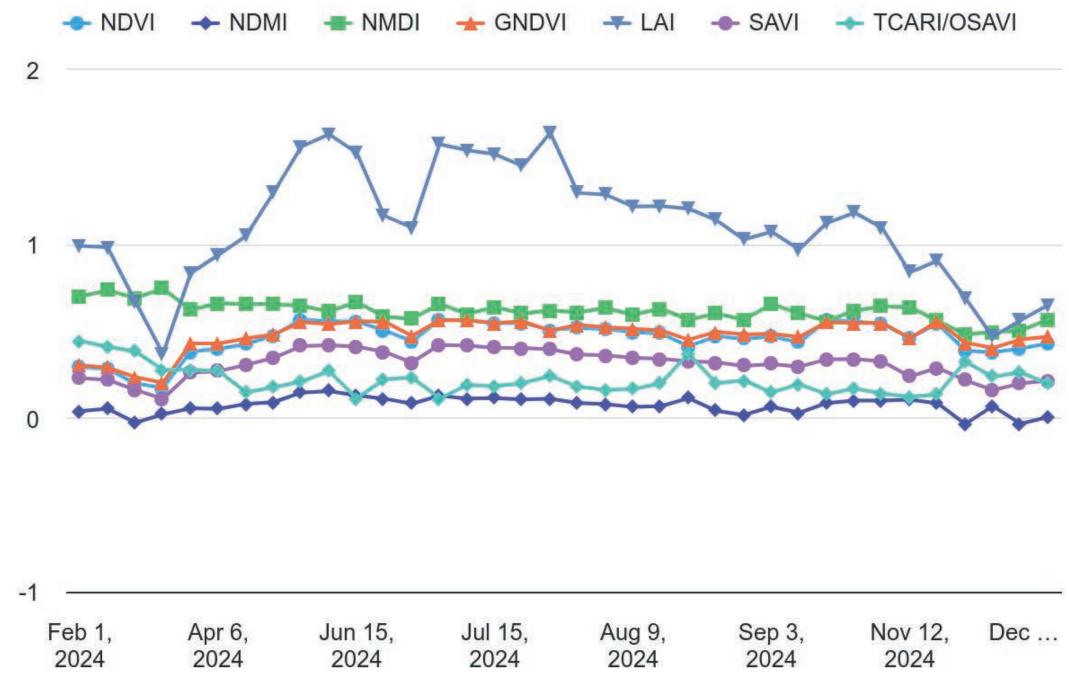






SATELLITE IMAGERY

Consult Sentinel-2 satellite images with vigor, water stress and chlorophyll indices to promptly identify critical areas of the citrus fields.



Sep 3,	Nov 12,	Dec
2024	2024	





Features







TASK MANAGEMENT

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



MACHINARY

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

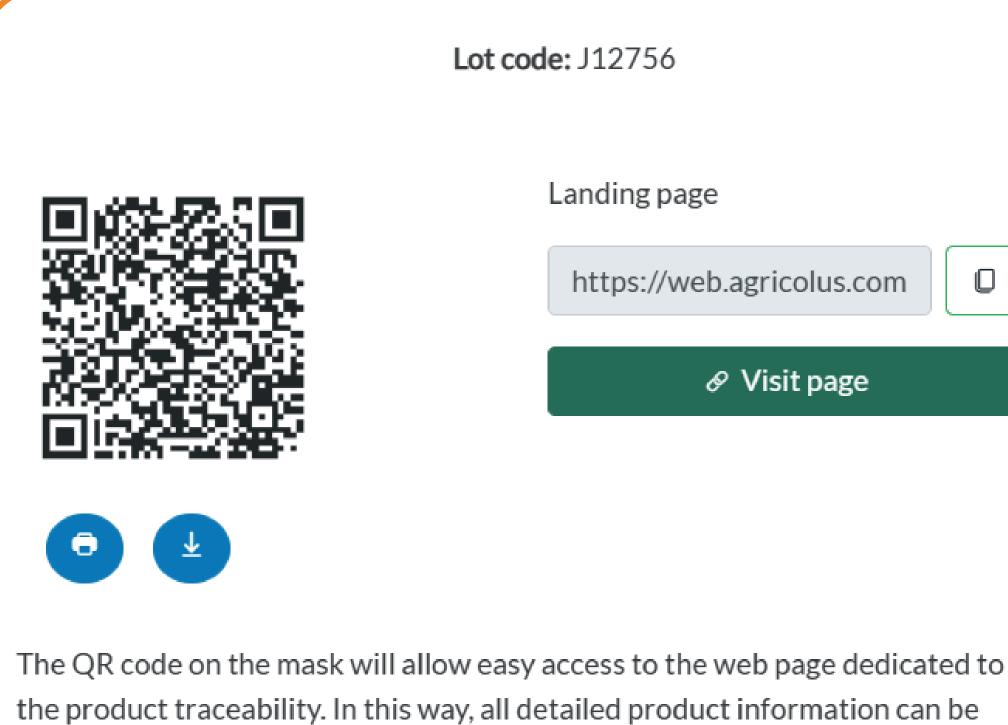
CROP OPERATIONS

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

					_	A	Second C	10	and and the street	-
Operation: Fertilisatio	n		Reported On: F	eb 5, 2024, 00:00:00		Carl Streament	and start	Ball Barry	- Second	and the second
Multiple Fertiliser type	850 kg Quantity	106.97 kg/ha N per ha	45.23 kg/ha P ₂ O ₅ per ha	79.46 kg/ha K ₂ O per ha	•		S.			
		^ Hide details				ÐJ	1			
prodigy plus (Mineral)	450 kg/ha	38.51 kg/ha	11 kg/ha	11 kg/ha						
gromaster 14-7-14 (Mineral)	400 kg/ha	68.46 kg/ha	34.23 kg/ha	68.46 kg/ha	Ŭ					
Field: Citrus 1				Crop: Orange		1 lar				
Operation: Fertilisatio	n		Reported On: Ma	ar 29, 2024, 00:00:00		1000	0			111
sangue di bue n12 po57 (Organic) Fertiliser type	20 kg Quantity	2.93 kg/ha N per ha	13.94 kg/ha P ₂ O ₅ per ha	0.98 ^{kg/ha} K ₂ O per ha	• tr		5	2		
Field: Citrus 1	A.3. (1000000.00)	1.000 Auto-000001		Crop: Orange		0.00	6.1		0.0	
Operation: Treatment	s		Reported On:	Jul 5, 2024, 16:10:22		Maxar, Microsoft		the	Alter M	1/1/
Fungicide Product type	SYLLIT MAX	Dodina 52.9% (544 g/l) Active ingredient	5 qty/ha Quantity of product	- Target	• tr	Legend				
Field: Citrus 1		1	Free 182 - 24 m 424	Crop: Orange		Fertilisation	1			



Features



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.



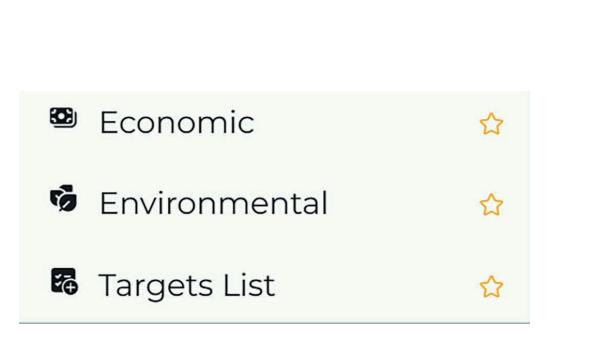








SUSTAINABILITY





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.

ENVIRONMENTAL INDICATORS	ENVIRONMENTAL ?		
onmental indicators focus on the impact of agricultural practices on the su	ne surrounding environment		
Vater			
Indicator	Value		
Total water consumption	5980.21 m ³		
Average water consumption	163.1 m ³ /ha		
ertilizer			





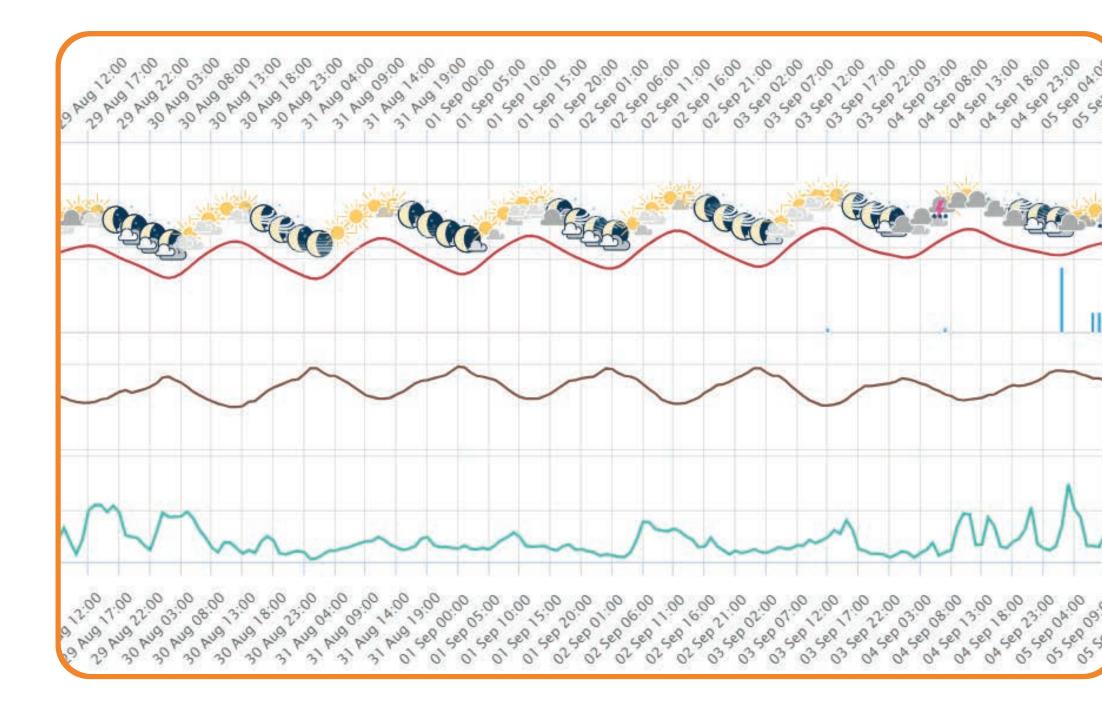






WEATHER FORECASTS

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





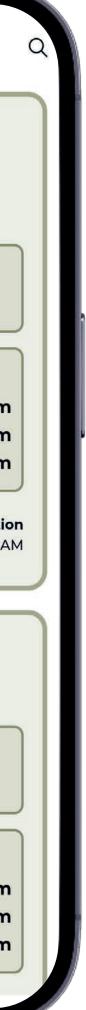
WEATHER STATIONS

Virtual weather station includedt;

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

(Veneto) Boy Giovanni 00205EAE	/olone San
Image: Temperature 6.49 °C	⇔ Wind 0.20 m/s
⇔ Cumulative p Today Yesterday Last week	7.2 mm 2.4 mm 13.4 mm
Physical station	Last syncronizatio Fri, Dec 20 2024 10:30 A
(Umbria) Pie 00213DE3	











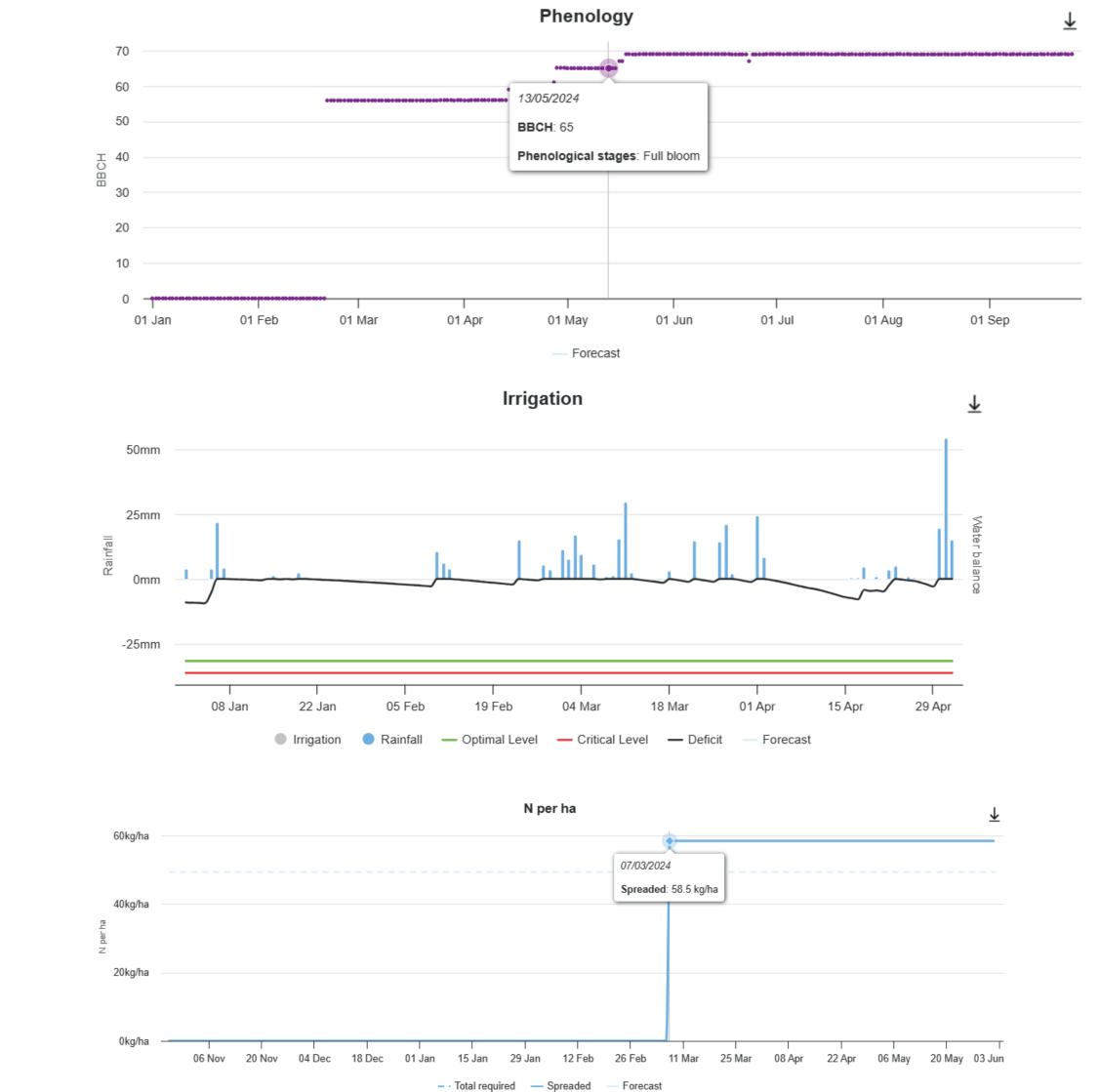
Phenology forecasting to assess the needs of the citrus grove at each stage of development.



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



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

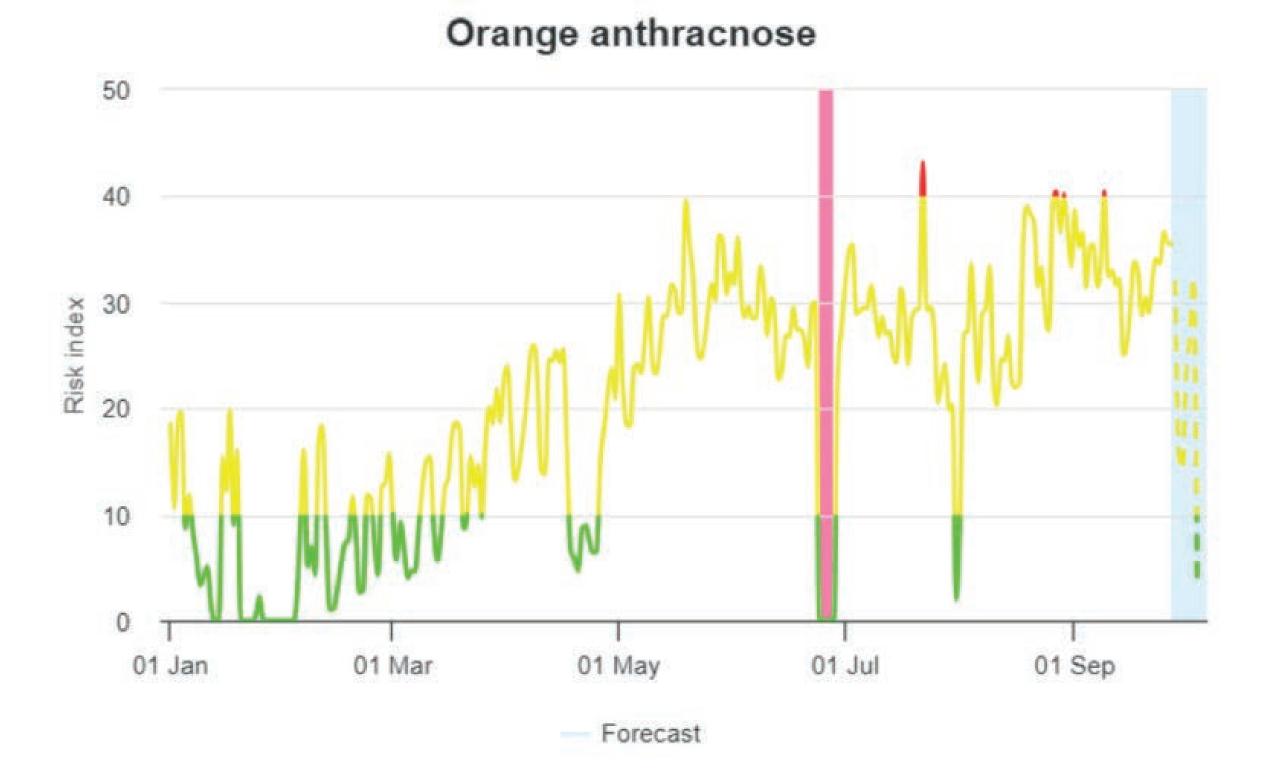








PESTS AND DISEASE MODELS

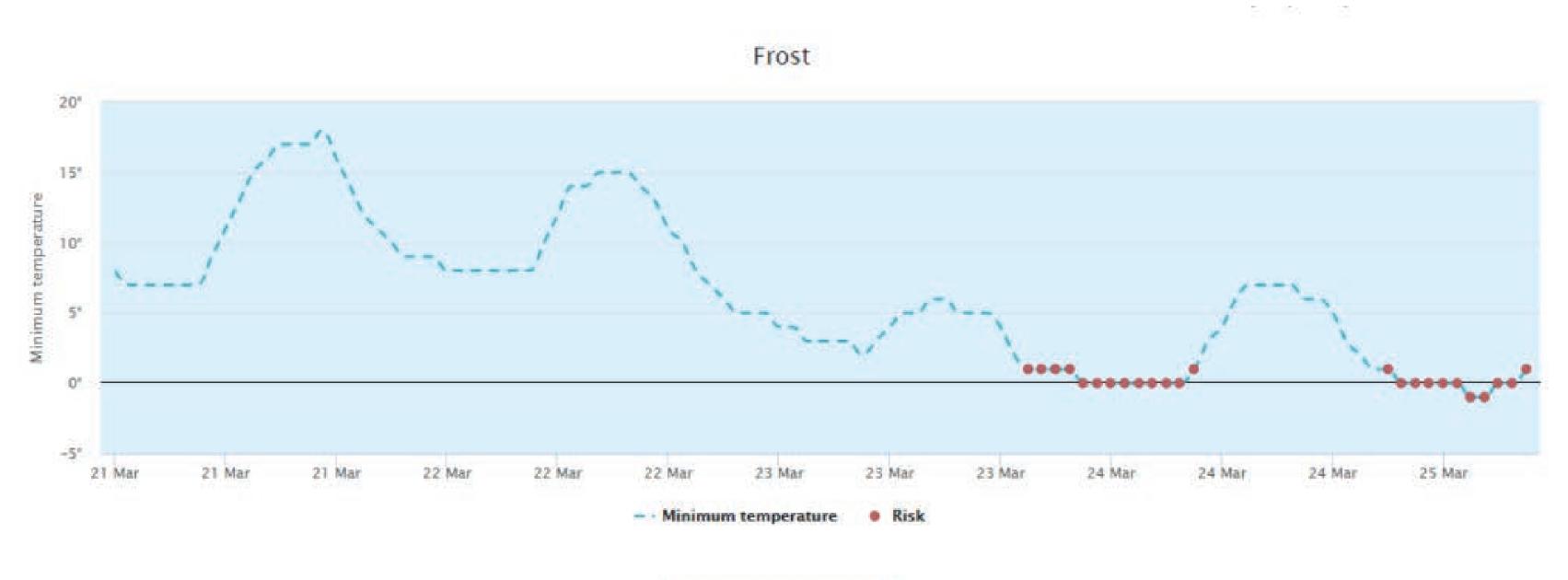


Forecasting of pests and diseases to assess the risk of disease outbreaks (Anthracnose) and harmful insects (Fruit Fly) and intervene promptly.











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







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 yieldT.

campo Arancio (Arancio	b)	
Data del campione		
28 ago 2023		
Identificativo campione		
Ø 240-586-1		
Campi		
campo Arancio		~
	Seleziona un punto in mappa	
Grado Brix a 20°C (°Brix)	23	°Brix
Acidità totale	20	g/)
Rapporto zuccheri acidi	1,15	%
Colorazione	rossa	
Buccia integra	Si	
Danni	Si	~
Quali tipi di danni?	Danni biotici	~
Umidità esterna anormale	No	~
Odore e/o sapore estranei	No	~
Note		

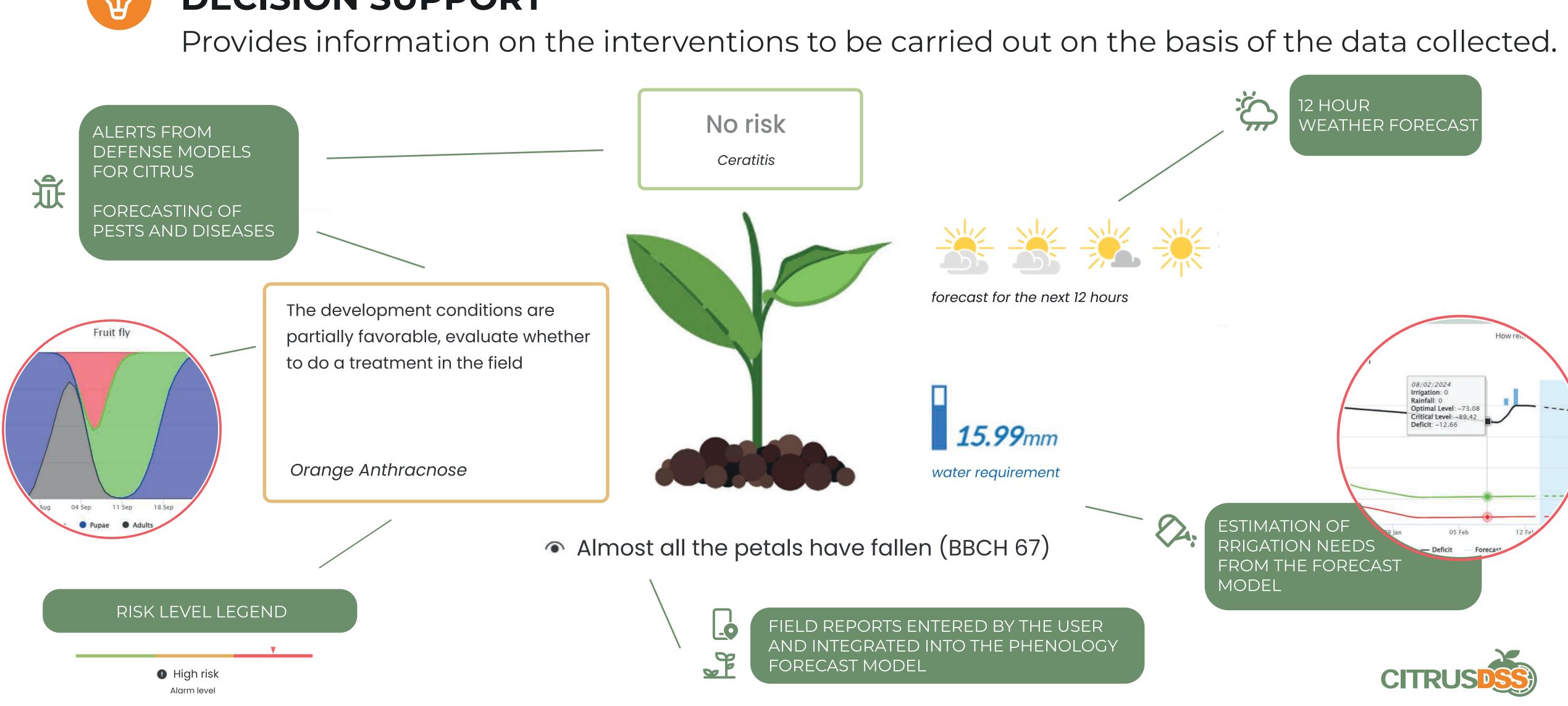








DECISION SUPPORT







CROP SCOUTING

← Record Audio	New note
	itle
	escription
Recording	Take photos Load image Reco
00:00:08	
) 	So Fields
[][] Pause	Casalina 22 19.65 ha - Durum wheat
🖹 Save	
	🖹 Save

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 ••
- JE PHENOLOGY
- **逾 PESTS AND DISEASES**
- **A** SOIL ANALYSIS
- ☆ QUALITY MONITORING
- QUANTITY MONITORING भूम





Features

Field		Layer	_	
Citrus 1		✓ NDVI	× =	+
Feb 1, 2024 F	eb 6, 2024 Feb 21, 2024 O O	Feb 26, 2024 Apr O	1,2024 O	
Fertilizer name	Nutri	ent%		
Phylen	17	5	%	
Number of Zones (max: 5)	Calcu	lation mode		
2	Av	erage - direct	~	- David
Avg nutrient	Varia	tion from avg		
70	kg/ha 20		%	
Zones	Area	Avg nu	utrient	
O Zone -1	0.29 ha	78,52	kg/ha	
O Zone 0	0.53 ha	65,44	kg/ha	
Total fertilizer	57.26		kg	
Total area	0.82		ha	
Avg nutrient	70		kg/ha	1 An





PRESCRIPTION MAPS

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





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