

**MACHINES
FOR LIFE —**



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DIGITAL AGRICULTURE



YEAR 2022
V 1.0.0.0

The complete G FARM catalog offered for farming activities: the platform and its basic functions, premium advanced modules and interconnected sensors

WHY DIGITAL

Modern farming is continuously searching for efficiency: limiting unnecessary expenses, speeding up procedures and increasing production quality. According to our vision the solution is to know one's own fields at a higher level than in the past. Today it is necessary to combine the experience of farmers with data and information that help make even more objective and efficient decisions.

With **G FARM** products you will be able to simplify the management of your company and better understand your business, save time and focus on what is really important for farmers: being in the field!



BASIC FUNCTIONS	
FIELDS	rapidly manage your land parcels
MAP	fields and sensors at your fingertips
LAND REGISTRY	view the land registry maps and save the details
ACTIVITY	programs and records the work
NOTES	takes notes and photos to record everything
SATELLITE	vegetative indexes of your land parcels
WAREHOUSE	inventory and stock even in the field
SILOS	keep track of the capacity of silos and trenches
LOADS	keep track of harvesting and transportation
PRODUCTS	find technical resources and fill in the register
ACCESS	share access with your collaborators
DOCUMENTS	digitalize to save time and space
EXPORT	create documents for CAP and inspections
MACHINERY	management and maintenance of the machinery fleet
SENSORS	view data gathered by the sensors
SUPPORT	direct chat with our team

16 basic functions free forever!

- Simplifies bureaucracy
- Increase control of your company
- Fill in the farm book free of charge
- Decisional support and field sensors

THE G FARM PACKAGES

A single platform which adapts to your needs

G FARM offers four packages designed to accompany you in the digitalization of your farm. Choose the level of digitalization of your choice and enhance the package with the additional available modules. With G FARM you can manage your company at 360° and adapt the application to your needs.

PACKAGE		START	ADVANCED	PRO	ELITE
*FARMING PACK 4.0	Basic functions	n.1	n.1	n.1	n.1
	Agroweather	n.1	n.1	n.1	n.1
	Alerts	n.1	n.1	n.1	n.1
	Telemetry (1 machine)	n.1	n.1	n.1	n.1
	Prescription maps and file analysis	n.1	n.1	n.1	n.1
	Phytosanitary data and dosages	—	n.1	n.1	n.1
	Finance	—	n.1	n.1	n.1
	Satellite Monitoring PRO	—	n.1	n.1	n.1
	Irrigation models (1 zone)	—	—	n.1	n.2
	Advanced reporting	—	—	n.1	n.1
	InCab telemetry module	—	—	n.1	n.1
	Operative Management	—	—	—	n.1
	Planning and Budgeting	—	—	—	n.1
	Disease prediction models (1 zone)	—	—	—	n.1
	Weather Station PRO (station, connectivity + mounting accessories)	—	n.1	n.1	—
	PRO Leaf weather station (station, connectivity + leaf wetness sensor + mounting accessories)	—	—	—	n.1
	Soil moisture sensor (sensor, connectivity, mounting accessories)	—	—	n.1	n.2
	Premium Support Pack	—	—	n.1	n.1

*Farming pack 4.0 functions included with all Goldoni products + kit 4.0

— NOT INCLUDED

THE PLATFORM

MORE THAN 400 CROPS SUPPORTED

The platform that you have been looking for: all the power of digital farming in one single app

G FARM is born out of the need to be able to exploit the advantages of digital means in farming, in a way that is smart, economic and intuitive. This is why we created a unique platform, accessible from any device and expandable with a modular system that adapts to your needs.

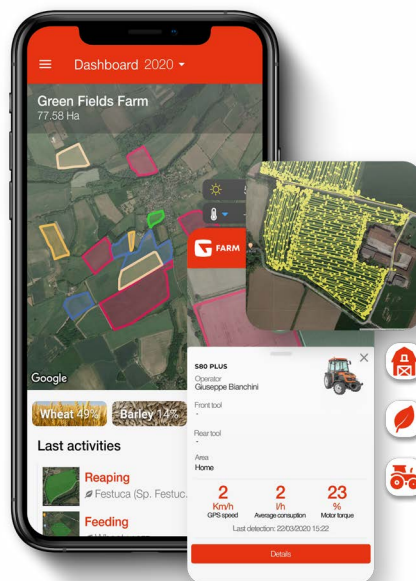
All basic functions are free of charge and premium functions are at your disposal to manage your business even better.



ANYWHERE

Designed to be used
anywhere:

whether in the field or at
the company, all you need
is a smartphone, a tablet or
a computer to use G FARM
to its maximum potential



FARMING

Created by farmers for
farmers:

developed in the field and
constantly improved with
the help of thousands of
users



CONNECTED

The platform is the
backbone of the digital
ecosystem:

it connects to the
sensors, as well as G FARM
Analytics, the panel for the
agri- food supply chain



MODULAR

A solution which adapts to
your company:

choose among five
packages and purchase
the additional modules so
as to personalize G FARM
according to your needs



INTUITIVE

So intuitive that you won't
need courses to learn to
use it:

graphics and operation have
been designed to be as
ergonomic as possible!

BASIC FUNCTIONS

FARMING PACK 4.0

Nowadays being quick and efficient is a must, so we offer G FARM as a free service: discover just how much the digital platform can help you simplify your farm management, saving you time and money so that you can concentrate more on your crops!

By creating an account you could gain access to 16 different functions dedicated to crops, logistics, bureaucracy and agricultural machinery.

1. MAP

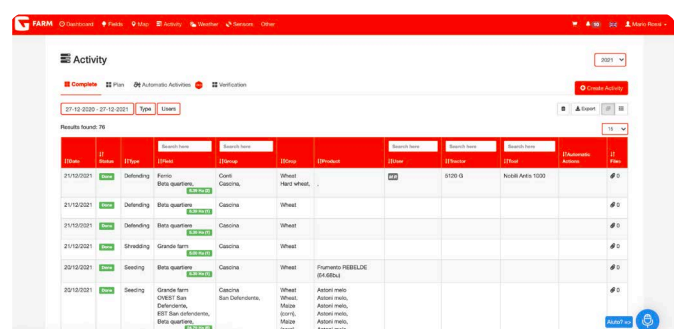
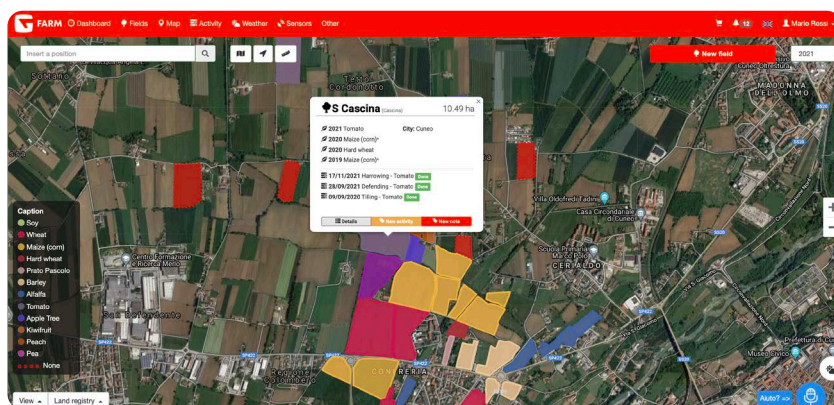
Manage your parcels quickly

Your parcels will be registered in such a way to allow you to easily fill out your work production records (activities), export precise statistics and speed up business management.

2. FIELDS

Fields on hand

In a single window, you can keep an eye on your entire business. With the filters you can also easily see how your crops are set up, which fields have already been planted and which ones are yours.



4. ACTIVITY

Manage your parcels quickly

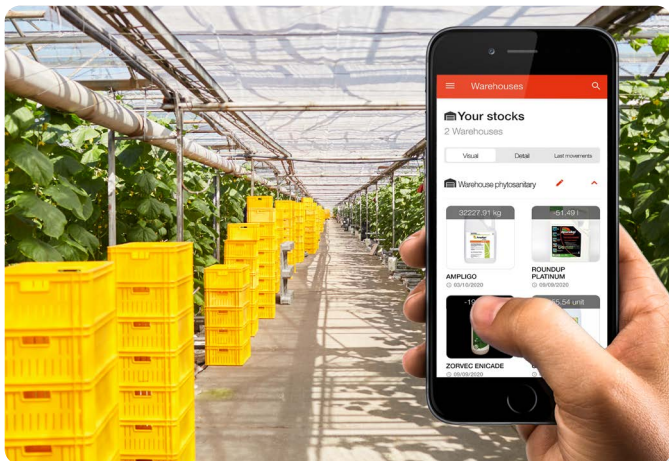
Your parcels will be registered in such a way to allow you to easily fill out your work production records (activities), export precise statistics and speed up business management.

3. LAND REGISTRY

Consult the land registry maps

View the land registry map and save the details for each field, printing them for future needs.

Unit m²	Field	Connectivity	Variety	Critical rate	Crop area (ha)	Size (ha)	Reckless	Plant area (ha)	Flowering area (ha)	Harvesting area (ha)	Density
1	Field 01	Water			0.05	0.050					
2	Field 02	Barley	FOR 204		4.70	4.70			14110019		
3	Field 03	Wheat	LAD01		20.00	20.00			11100019		
4	Field 04	Wheat	LAD01		7.20	7.20			11100019		
5	Field 05	Wheat	PROGNET 100		4.40	4.40			840000		
6	Field 06	Wheat			4.70	4.70					
7	Field 07	Wheat (in previous registration)	SOLVING 1000		1.00	1.00					
8	Field 08	Wheat	WAT01		4.70	4.70			91100019		
9	Field 09	Barley			0.44	0.44			14110019		
10	Field 10	Wheat			0.70	0.70					
11	Field 11	Wheat	WAT01		0.30	0.30			91100019		



5. WAREHOUSE

Inventory and stock in the field as well

In the field or at home, your warehouse inventory is always on hand. At the end of the season, you can visualize statistical data of movements to discover when and how all the resources have been used.

6. PRODUCTS

Find technical means and fill in the registry

Quickly check to see if you have the product needed to protect your crops available in your warehouse. Remember to always consult the safety data sheets of the products before using them.

7. LOADS

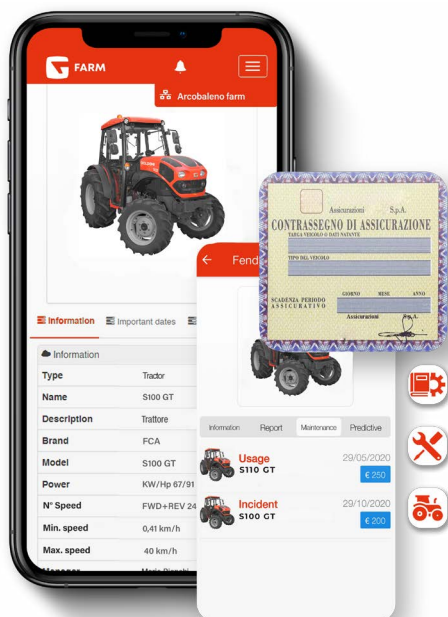
Harvest and transport tracking

Digitally register all transportation, in order to calculate your field production, harvest quality and have statistical data on supplies.

8. NOTES

Notes and photos so you don't forget anything

With the G FARM notes you can register memos, save important photographs and share geo-referenced information with your colleagues.



9. MACHINERY

Manage the maintenance of your machinery fleet

Add any maintenance and breakdowns so you can keep track of when they were made and how much they cost, link your machinery to all field activities to discover how much work has been performed and digitalize user maintenance manuals and statistics so that you have everything on hand.

10. DOCUMENTS

Save time and space by digitalizing the documents

All your documents are digitally stored, with no costs and directly linked to the related event, whether production, transportation or any other activity.

11. EXPORT

Create company reports for PAC, tenders and inspections

Use the exports for checks, PAC and tenders, to summarize all of the important information in one single document quickly and automatically generated.

12. ACCESS

Share access with your workers

Allow your colleagues to access G FARM: in this way, you will be able to assign personal activities and speed up company management.

13. SENSORS

View data gathered by the sensors

In a single location, view all environmental parameters in order to improve irrigation, protection and harvest, choosing the best time to visit the fields.

14. SILOS

Silos and trenches under control.

Record all loading and unloading to always keep track of how much product remains in your silos and trenches.

15. SATELLITE

Monitor your fields

View the latest satellite map for each of your parcels. Pictures are taken every 5 days on the NDVI base and allow you to swiftly notice abnormalities and variables in the growth of your crops.



16. DIRECT SUPPORT

Direct chat with our team

G FARM direct support is accessible to all users, whether they have activated packages, or whether they are using the free version. All you need to do is click on the blue icon in the lower right hand corner, whether on the website or in the app: don't wait until you're back in the office to write to us, you can zcontact us using your computer or mobile device!

PREMIUM MODULES

THE ADVANCED FUNCTIONS

A solution which adapts to you

We offer dozens of modules developed to allow you to have everything in G FARM that YOUR business needs. Full adaptability: freely choose what package suits you best and personalize it with the additional modules you need.

All our software and sensor offerings, prices and features are contained in one shop, quick and easy as G FARM.



MODULAR

Personalize G FARM:

choose what package suits you best and personalize it with modules!



ADVANCED

Get the most out of digital:

from forecasting models to digital farming



INTEGRATED

One single platform:

all in one place, accessible from all devices



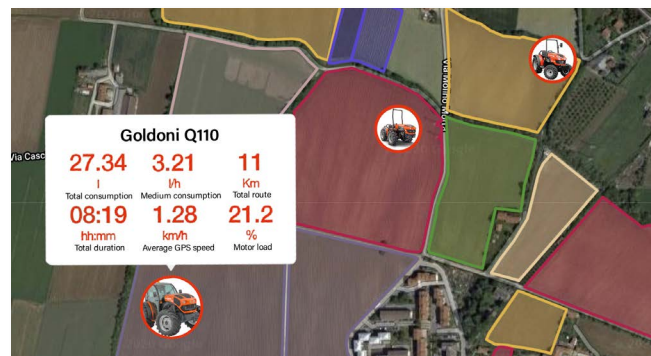
MACHINERY TELEMETRY

FARMING PACK 4.0

How it works

With the G FARM Telemetry function you can make the most of the data produced by your Goldoni tractor that you would normally only see on your dashboard.

Thanks to a special kit, your tractor can connect to the G FARM app and automatically send important information when the vehicle is in use, such as the track of the works, the speed and the engine load. You will be able to consult this information both in real time, thanks to maps and counters, and afterwards, as work reports and machine history.



MACHINERY

Position, consumption, speed and all engine parameters in real time.



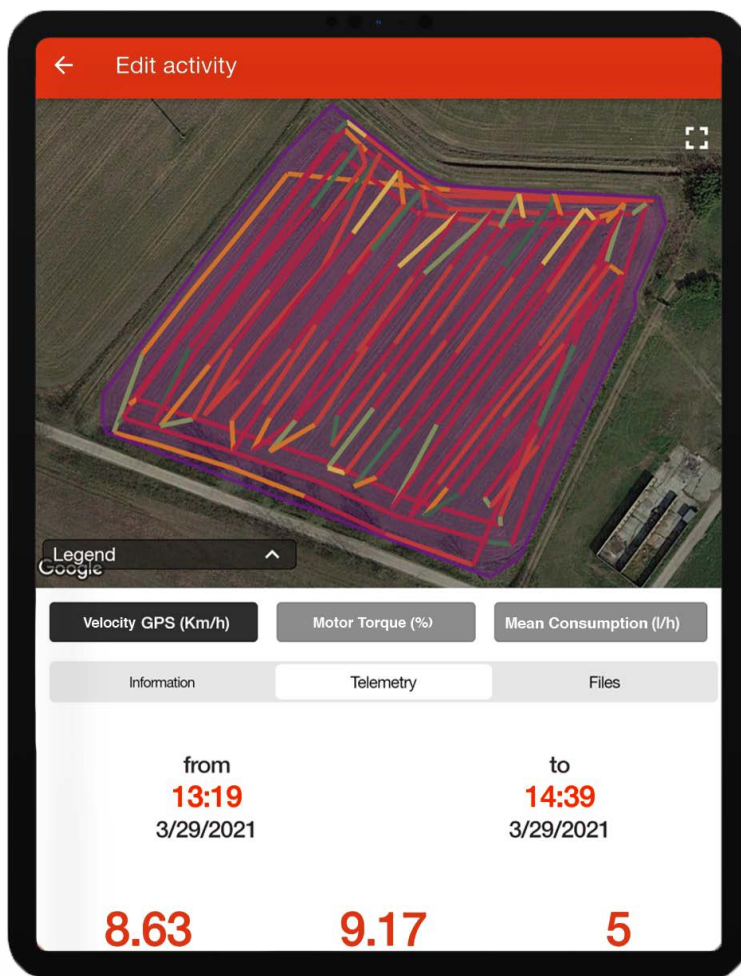
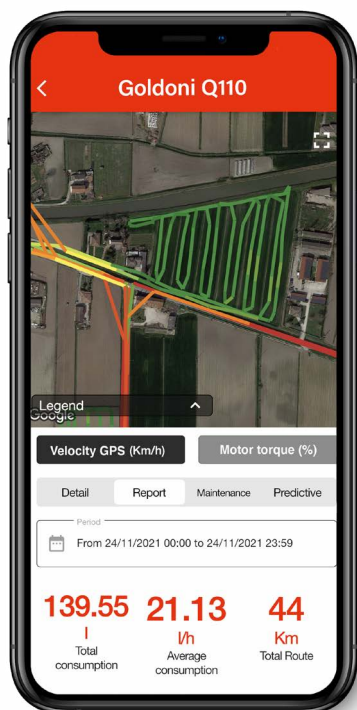
AUTOMATIC LOG

G FARM uses positions and data to automatically fill in the register with your field work activities.



MAINTENANCE

Receive predictive maintenance notifications based on anomalies and hours of work carried out



FULLY INTEGRATED

Much more than remote monitoring

G FARM will process the data from your machinery to create automatic processing reports, so that you can automatically fill in the activity log with accuracy, enriching it with operation duration, consumption and much more. This information further enhances the effectiveness of the other modules, for example allowing you to have a more accurate calculation of crop costs in Finance or better visibility of your fleet utilization in Operations Management.

PRECISION FARMING

FARMING PACK 4.0

All the advantages of precision farming in a simple and complete platform

Use G FARM to reach the highest level of technical precision in farming, limiting waste, increasing yield and quality, exploiting to the fullest all the possibilities of modern farming.

With this approach you can collect very precise data on variability within your field and use them to draw up timely action plans.

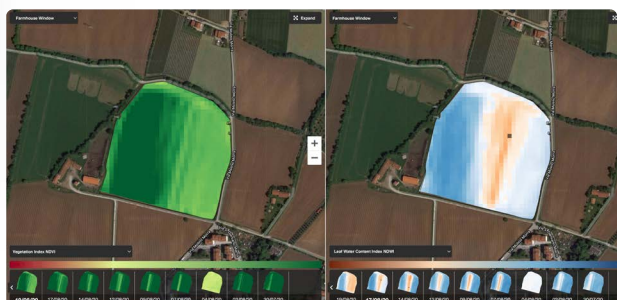
SATELLITE PRO

View multispectral images for all your parcels: this data, collected by satellites equipped with particular devices capable of taking photographs at various wavelengths, will help you understand the variability inside your parcels, enabling you to quickly comprehend which fields or areas are developing better and which others have problems.

The satellites will take a picture every 5 days (unless it's cloudy) and you'll be able to access all the pictures taken in the last 12 months, so as to be able to also evaluate the weather changes. Furthermore, with Satellite you can also compare images with different indicators and dates, in order to verify, for example, if low plant vigor is due to stagnation or low leaf coverage.

Supported indicators:

- **NDVI:** Normalized Difference Vegetation Index
- **NDRE:** Normalized Difference Red-Edge
- **EVI:** Enhanced Vegetation Index
- **LAI:** Leaf Area Index
- **CHI:** Chlorophyll Presence Indicator
- **SAVI:** Soil-adjusted Vegetation Index
- **NDWI:** Normalized Difference Water Index
- **RGB:** Real Color



1 Map generation

Seeding

Feeding

Origin - Field List

-- Select --

Finestra Cascina

Index

Index

NDVI

Date

Date

09/08/2020

Zones

Zones

4

Opacity

Opacity

2 Strategy

Higher dose in areas with greater vegetative vigor

Higher dose in areas with less vegetative vigor

Average dose

Average dose

160

kg/ha

Unit

Unit

kg/ha

Difference in dosage with zones: 15%

Product name

Product

Urea

3 Distribution

Dose (kg/ha)	Area (ha)	Quantity (kg)
222.116374	0.0249867	5.5499610
193.14467	0.5272987	101.84495
167.95188	4.6733970	784.90587



PRESCRIPTION MAPS

With **Prescription Maps** you can use satellite images to create **fertilization** and **sowing maps** in a **simple and quick manner**. Loading these maps onto the on-board computer on variable-rate equipment will enable you to distribute resources more efficiently, **saving time while increasing yields**.

MAP ANALYSIS

With Map Analysis you can **load and view mappings** of any type in a single location. Whether they are yield maps of a combine harvester or maps made by drones, you'll be able to import, consult and compare them. You'll also be able to **file them in an orderly manner**, attaching them to activities, fields and specific moments.



EFFICIENCY

Distribute resources so as to increase your yield and avoid waste

Precision farming allows you to combine the understanding of your fields with the management of operations within the parcels. You'll be able to better manage resources, increase yields and achieve the best out of your parcels, reducing waste and inefficiencies.



SIMPLIFICATION

Integrates precision farming with all other G FARM features



G FARM offers you the possibility of managing precision farming techniques through a single platform, which also contains all the other functionalities needed for digital farming: you'll thus be able to combine the variable ratio by recording the field activities, exploit telemetry, obtain financial reports and much more...

ALERT

FARMING PACK 4.0

One tool with unlimited potential

Alerts is the module that allows you to use the data in G FARM to create your own alerts and notifications, you just have to choose the values to be considered, the alert rules (e.g. a threshold) and the way to send the alerts.

  **Alert Configuration**

1 Choose type

Modify

Warehouse: When AMPLIGO is greater than 40 kg

2 Detail

Modify

Name: Purchase Ampligo

Text: Ampligo product is about to run out (less than 40 l remaining)

Users: Martone Blanco

EMail: demo@xfarm.ag

Sms number: +3933312345612 , +3933345461236

3 Field and crop

Modify

Field: Alpha, Gamma, Epsilon, Zeta

Choose a type of alert

Are you creating a reminder?

Would you like to have a record of stocks, machinery and activities?

Create the rule

Choose a value or an event and when the warning should go off

Enter the details

Choose title, descriptions, users and notification send method (on the app, via mail or TEXT MESSAGE)

Choose the fields

If you like, you can limit the warnings to only some parcels

Actions 

Check products on the plots

Alert when conventional products are registered on organic fields

Warehouse  10/09/2019

Actions 

Wind alert

Alert when xSense PRO measures wind > 20 km / h


Sensors  08/07/2019

Actions 

Alert suspicious machinery movements

Alert when telemetry detects moving machinery after 10 pm

Machinery  17/08/2019

Actions 

Water stress field 4

Alert when field 4 is below 20% humidity for more than two hours

Devices  01/07/2019



WORK PLAN

Work plan: instructions for your personnel

A simplified list of your staff wherein the planned activities they were entrusted to implement can be viewed and what they may need to complete same is also viewable. **Work plan is included in Operative Management.**

Easy and effective

In the G FARM application and web version, your employees will be able to use the Work Plan section to view a simple and complete summary of the tasks that have been planned for them.

The interface has been designed to be used even by non technology lovers, with clear indications and larger images. It is possible to select a specific date range and if the farm has the Agroweather module activated, additional weather forecasts are available in the work area for the days in question.

Everything you need for your work

The screen is composed of three sections:

- Date selection and weather conditions
- The list of tasks planned for the user during the selected date to **keep track of the work to be done**
- The machinery and products needed to carry out the work, in order to **save time and avoid errors when using company resources**

Task plan

Day Week Month

Gabriele Rulli's Activity Agenda

< 28/12 - 03/01 >

Wednesday 30 Dec
11°
8°
8 mm 2 Km/h


Thursday 31 Dec
11°
7°
2 mm 2 Km/h

Morning Afternoon Evening Night

Average values 06:00 / 12:00

Temperature (°C)	8
Perceived temperature (°C)	7
Wind speed (km/h)	1
Relative humidity (%)	93

1 Your next activities



Activity of the day

Ditch cleaning and maintenance

21/10/2020

Chard (Including ...)

Ditch cleaning and maintenance None

Done

MB

Defending

21/10/2020

Plum

Defending TEER, ALDAL


MURPACK

Done


MB

2 What do you need

2 Machinery




S 80



Spayer Omnis

4 Products




Loyant 2.0

Rice products warehouse

Balance: 1.58 l

7.44 l

Le Rondini SS



RIFIT 500

Rice products warehouse

Saldo: 4.00 l

9.30 l

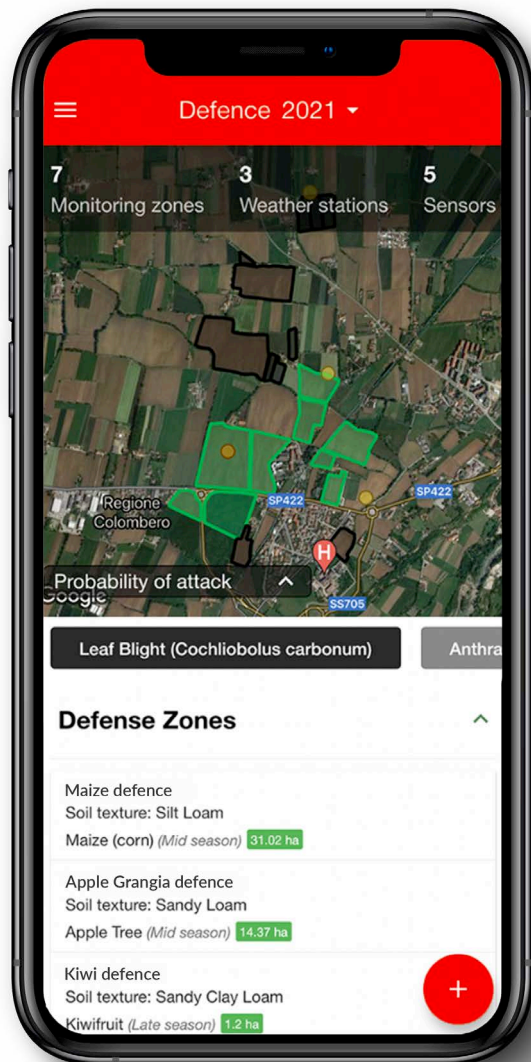
Le Rondini SS

3 We wish you a good work

PROTECTION FOR YOUR CROPS

Optimize plant protection by saving money and time

Improve protection interventions, increasing efficiency of spraying, saving time in treatment registration and preventing disease outbreaks.



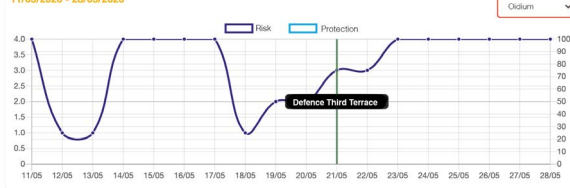
FORECASTING MODELS

Use data from sensors placed in your fields to get protection alerts actually based on your data. In this manner, you'll be able to identify the optimal times for working the field, thus preventing the onset of diseases through precise treatments, saving resources while protecting your production in the best way possible.

Field list

Unit #	Field	Commodity	Variety	Cultural note	Crop size (ha)	Size (ha)	Rootstock	Plant date	Flowering date	Harvesting date	Density
1	Field 1	Apple	Golden		0.25	0.25					
2	Field 2	Apple	Golden		0.25	0.25		10/10/2019			
3	Field 3	Apple	Golden		0.25	0.25		11/10/2019			
4	Field 4	Apple	Golden		0.25	0.25					
5	Field 5	Apple	Golden		0.25	0.25					
6	Field 6	Apple	Golden		0.25	0.25					
7	Field 7	Apple	Golden		0.25	0.25					
8	Field 8	Apple	Golden		0.25	0.25					
9	Field 9	Apple	Golden		0.25	0.25					
10	Field 10	Apple	Golden		0.25	0.25					
11	Field 11	Apple	Golden		0.25	0.25					

Risk and Protection



CROPS
protected



PROTECTION
efficient



TREATMENTS
optimized

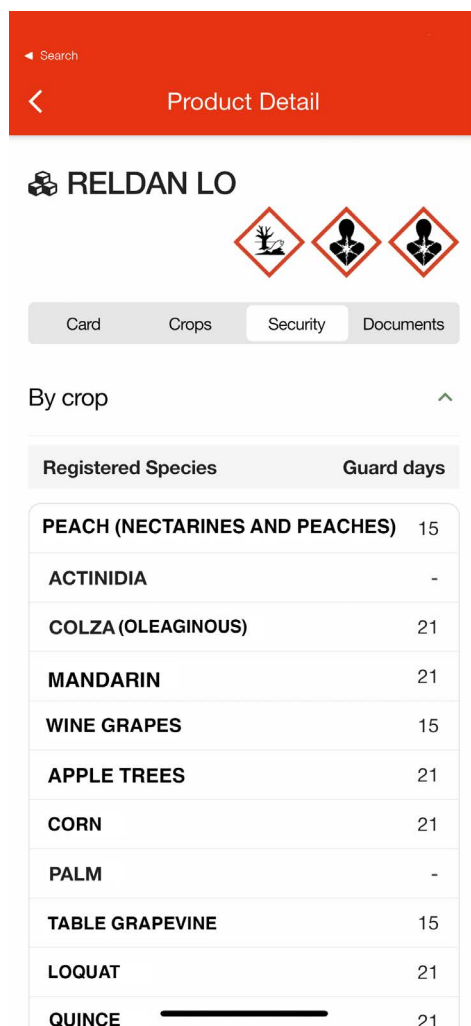


COSTS
reduced



DATA AND DOSES

Searches for products suitable for adversities, obtaining access to labels, safety data sheets, shortages and return times, suggested dosages, while speeding up the recording process for protective intervention operations.



WEATHER STATIONS

Connect weather stations for forecast models

Connect the sensors to your weather station and use the data collected to find out what is happening in your fields: humidity, temperature, conductivity and much more.

Choose a weather station (mini or Pro), install it in the field, connect it to the platform and you will not only be able to see all environmental parameters, but also use the data for advanced functionalities such as forecast models and alerts.

LEAF WETTING SENSOR

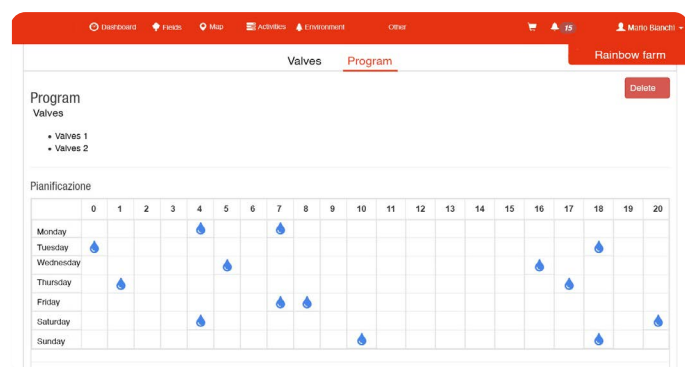
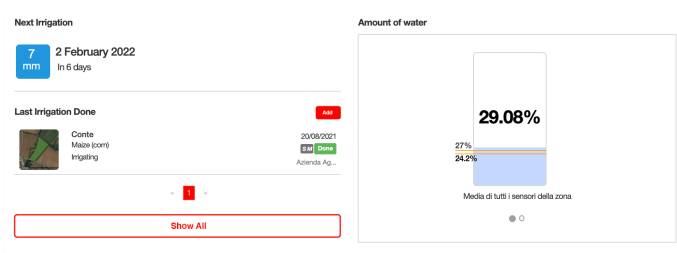
Collect parameters of foliar wetting with sensors



IRRIGATION

Irrigation advice

Uses the data taken from on-field sensors to calculate the soil's moisture level, compares it with the crop's requirements and **calculates the irrigation needs**, thus avoiding plant stress.



Irrigation management

Split up the irrigation operations day by day, field by field, as well as setting the **irrigation system activation times**.



YIELD
increased



QUALITY
homogeneous



TREATMENTS
reduced



WASTE
reduced



ENERGY
saved



COSTS
reduced

Graphics and charts

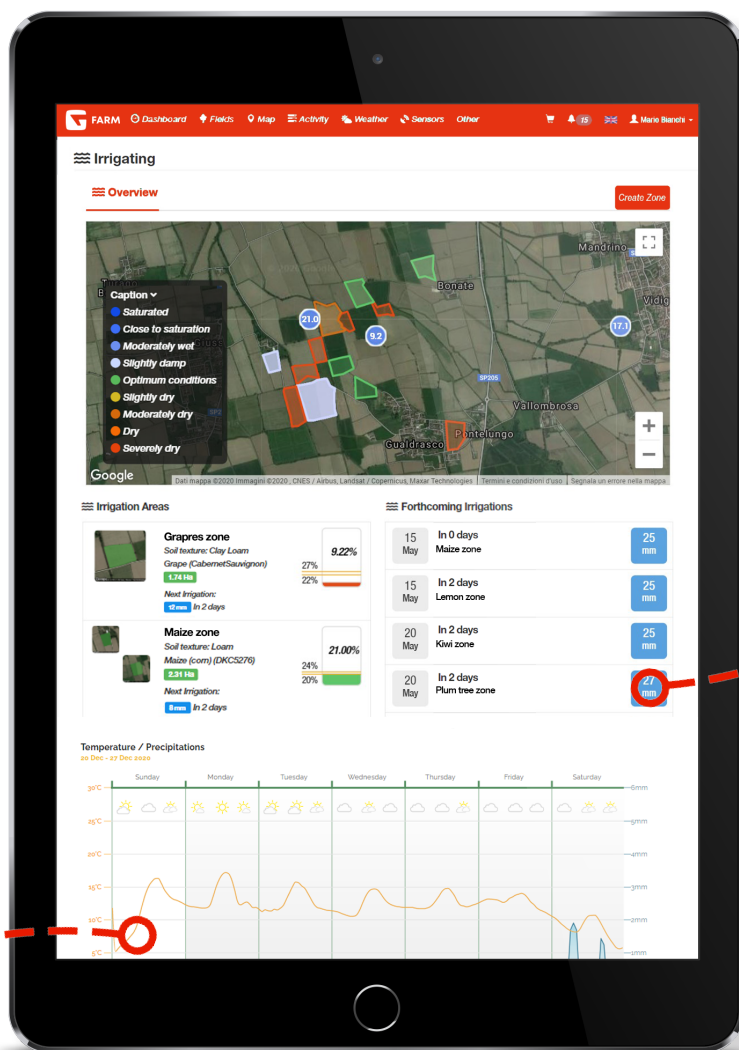
View all raw data used to calculate irrigation advice. Graphs and tables allow you to better understand the water situation in your fields.



WEATHER STATION

Connect the weather forecast stations to collect environmental parameters

Choose an (mini or Pro) weather station, install it in the field, connect it to the platform and you'll not only be able to see all the environmental parameters, but also use the data for advanced functionalities, such as irrigation advice.



Irrigation calendar

View a calendar with all the relevant irrigation schedules, so as to stay updated with regard to your parcel's irrigation needs.



SOIL MOISTURE SENSOR

Collect soil parameters with sensors

Connect the sensors to your weather station and use the data collected in order to find out what's happening in your fields: humidity, temperature, conductivity and much more.

OPERATIVE MANAGEMENT

Manage personnel and fleet

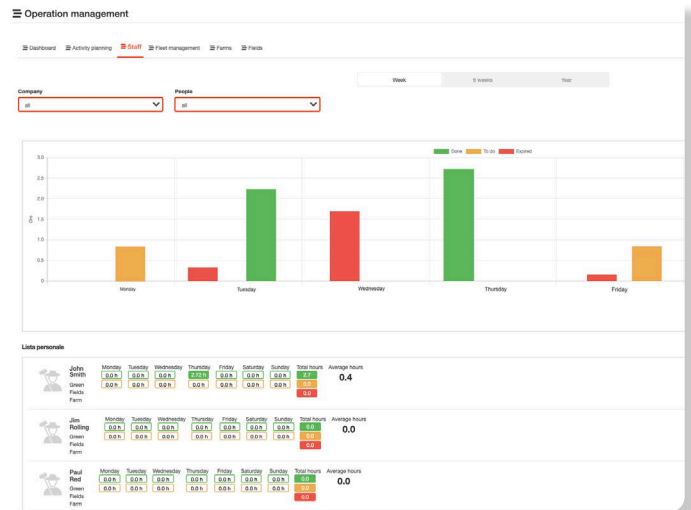
With the Operative Management module, you can plan activities by checking that machines, products and required personnel are available.

Personnel management

It plans and records personnels' working hours, assigning individual tasks to be carried out and which machines and products they should use.

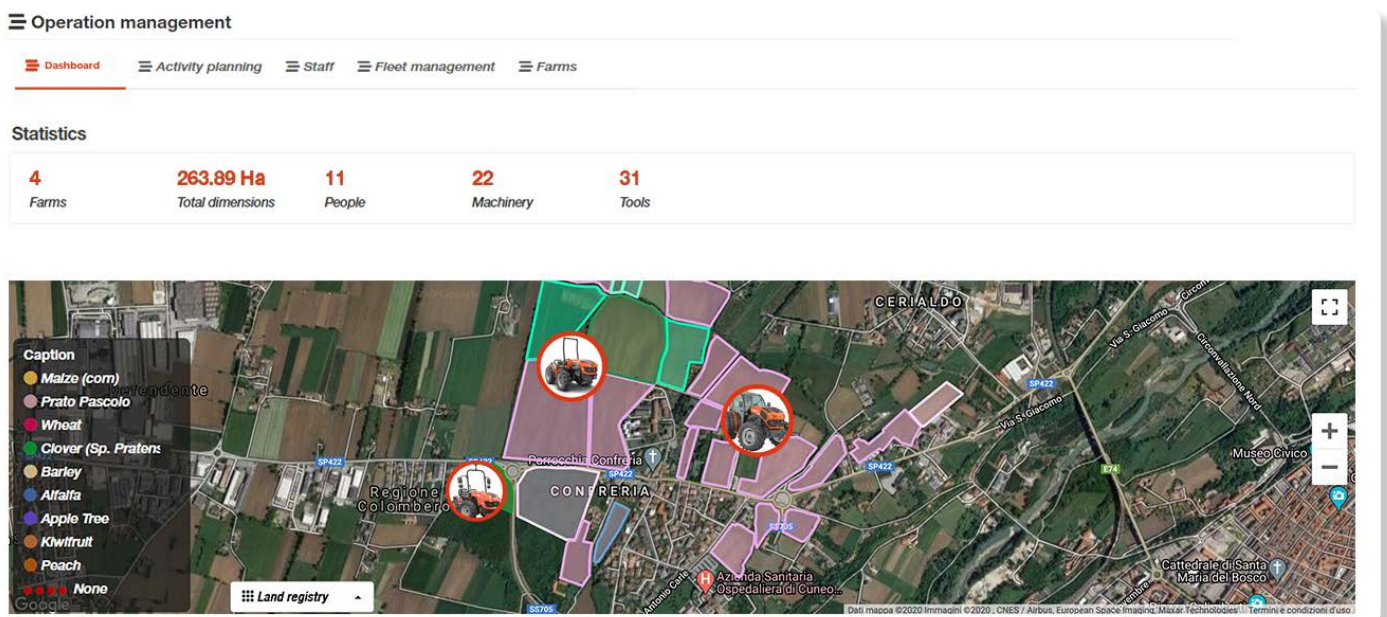
G FARM integration

Operative management has been implemented to be connected to the Finance and Telemetry modules, to enable an outline of costs for activities and machinery functionality.



Global vision

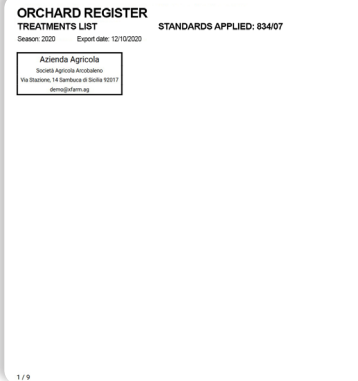
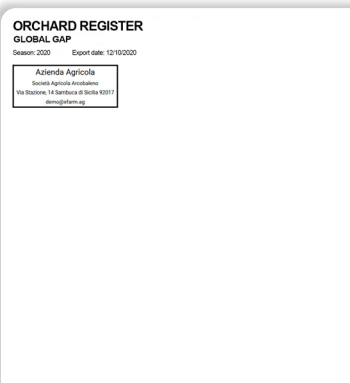
Visualize in real time the position of your machinery (if equipped with telemetry), the programmed activities and those that have already been effectuated, analysis graphics in an incredibly user friendly calendar. If you have Multifarm you will have a global view of all the connected farms.




ADVANCED REPORTING

Produce printable documents with business information for organic, GlobalGAP and much more

Get advanced reports: all the information can be exported into detailed and customizable documents, for inspection, tender notices and particular declarations, such as biological and GlobalGAP.

- GlobalGAP
- Organic
- Customized Export



PLANNING AND BUDGET

The tool that helps you plan and compare the entire crop plans

With Planning and Budgeting you can set up activity programs in the field, estimate their costs, order them and get a budget estimate of the choices to be made.

☰ Crop Planning
2020

Schedules Programs Activity Task plan Crop Allocation
Create schedule

Statistics

5 fields out of 31

Planned surface: 31.36 ha

€16584

€528,83 €/ha

Expected revenues

€9480

€302,30 €/ha

Various costs foreseen

€7104

€226,53 €/ha

Expected profits

Cultivation Plans

Program Name	Production Batch	Commodity	Estimated Yield	Surface used	Scheduled Programs
Maize weed management	Maize weed management	Maize (corn)	165 q/ha	15,2 ha	View activities
Minimum tillage soil preparation		Maize (corn)	165 q/ha	15,2 ha	View activities
Fertilisation 30-40-30	Maize weed management	Maize (corn)	175 q/ha	6 ha	View activities
Fertilisation 50-50	Maize weed management	Maize (corn)	165 q/ha	9,2 ha	View activities
Manual thinning	Maize weed management	Apple tree (Golden D.)	330 q/ha	16,15 ha	View activities
Chemical + manual thinning		Apple tree (Golden D.)	330 q/ha	16,15 ha	View activities
Maize threshing		Maize (corn)	165 q/ha	15,2 ha	View activities
Stalk packing		Maize (corn)	480 q/ha	15,2 ha	View activities

Compare different strategies

It generates work simulations, records costs and returns, in order to compare the necessary farming plans in advance.

Plan multiple activities

Utilize the plans to schedule a large number of repetitive tasks in multiple fields with just one click.

Manage the rotations

Plan the rotations in your parcels, respecting the bureaucratic needs and controlling field turnovers.

FINANCE

Digitally managed cost-benefit assessment and crop comparisons

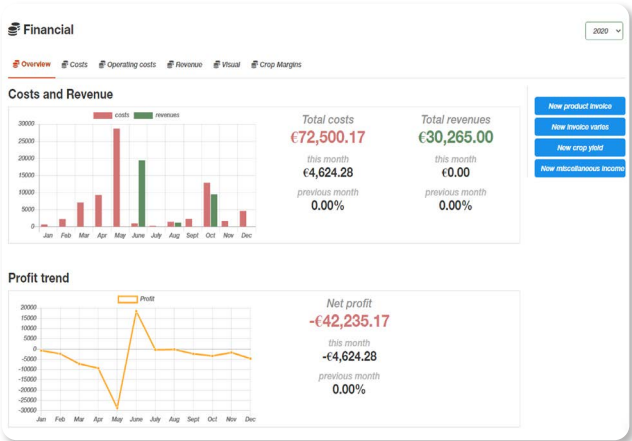
It simplifies financial management by analyzing recorded data to compare vintages, techniques, crops, parcels and much more, finding **possible savings** and **assessing the effectiveness of the investments**.

Invoice register

It digitally records invoices issued for the sale of products, the purchase of technical means and all the company's accounting movements.

Costs and revenues

Obtain graphics and charts that compare inputs and outputs, so you can evaluate which production phases have more impact and what the net revenue will be.



Economic map

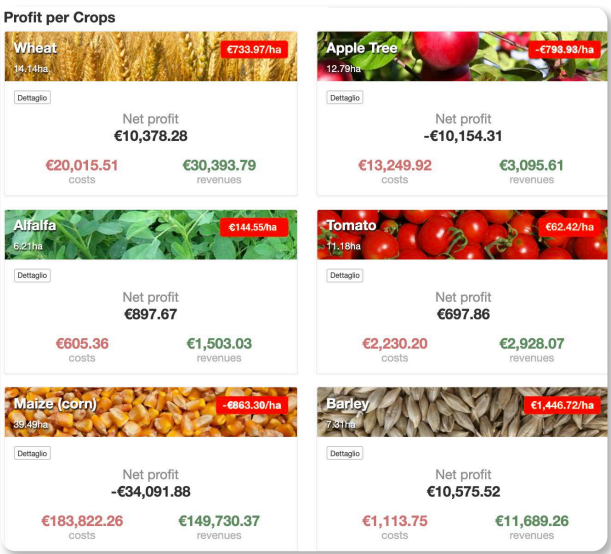
A visual summary that allows you to quickly recognize which parcels have guaranteed higher revenues, costs or income.

Crop margins

View the cost items for each crop that have most affected the budget, understanding where you can limit waste and optimize your choices.

Crop comparison

Compare the different crops and varieties, so as to highlight which ones led to a higher profit, including them in the crop organization for the following year.





NOTE

[illegible]

NOTE

[illegible]



CATALOGO 2022

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SCARICA L'APP

