

USER'S MANUAL

Use guide for the YvY web
application for regenerative
agriculture





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ABOUT THE PROJECT

In 2021, the YVY project was a regional finalist in the **IBM Call For Code**, a program that invites software developers and innovators from around the world to combat climate change with open-source technology, providing project development support to each selected organization. Plan21 is part of the **IBM Sustainability Accelerator**, a pro bono social impact program that applies IBM technologies, such as hybrid cloud and artificial intelligence, as well as a pool of experts to improve and scale the interventions of government and non-profit organizations, helping populations especially vulnerable to environmental threats, including climate change, extreme weather, and pollution.





OBJECTIVES

The objective of the Plan21 Foundation's Regenerative Agriculture program are to support the change of production models in agriculture and contribute to the United Nations Sustainable Development Goals to address Global Change and promote Sustainable Human Development.

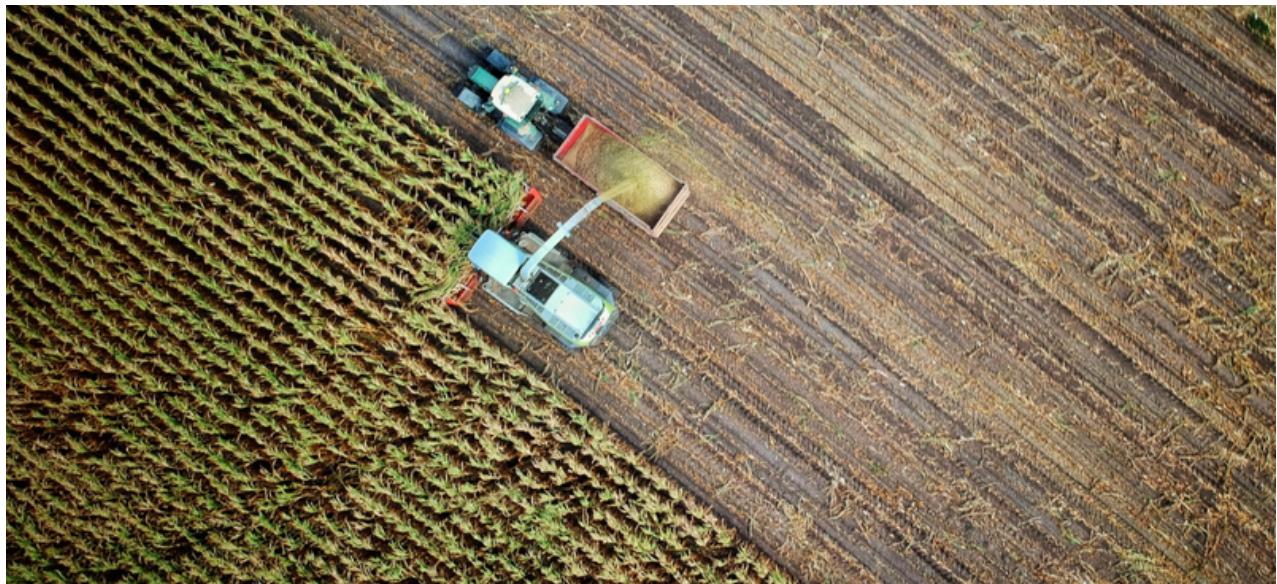
PARTNERS

- Instituto Tecnológico de Costa Rica, is in charge of developing the application with a team of teachers and students.
- IBM Environmental Intelligence Suite provides adjusted climate information.
- Smart Planet Sustainability experts are part of the advisory board.

TEC | Tecológico
de Costa Rica



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ABOUT THE DATA PROVIDED BY YvY

YvY is a web application designed for small farmers, through YvY you can obtain climate information, agronomic and other functionalities for sustainable production management. The information provided by YvY comes mainly from IBM Intelligence Suite, a program that provides climate information to anticipate disruptive environmental conditions, proactively manage risk and develop more sustainable operations. The IBM Intelligence Suite technology is derived through techno-spatial tools. IBM Environmental Intelligence Suite is an AI-powered SaaS solution that provides timely, fact-based actionable intelligence to proactively manage the economic impact of severe weather events and climate change, based on the world's most accurate weather data.



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TYPES OF USERS

In YvY we offer two possibilities when registering:

- **Producer:** Control your farms, calculations such as water or carbon footprint, agronomic data, QR code, and among other functions available in YvY.
 - **Organization:** Control the members of your organization and their respective farms, calculations, georeferencing, and among other functions available in YvY.
-



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WHAT DO I NEED TO USE YvY?

The first step to make use of YvY is :

- Have a device (computer, tablet, cell phone) with internet access.
- From your favorite browser enter <http://yvyapp.plan21.org/>

An integral solution for regenerative agriculture
An initiative from Plan 21's Regenerative Agriculture with support from the Costa Rican Institute of Technology, part of IBM's Sustainability Accelerator program.

Carbon Footprint
Our platform provides a feature to calculate your farm's carbon footprint.

Water Footprint
Water is a limited resource, calculate your farm's water consumption for a better management.

Certification
Do you have any ambiental certification? You can upload them here so that your customers know your commitment to the environment via QR codes. If you have calculated your footprints, consumers will be able to read them.

Weather
Thanks to IBM's Sustainability Accelerator program, farmers have access to a variety of information provided by EDS, like weather forecast and watering needs, among others.



From the principal menu you can use these two buttons to navigate to the Login and the Sign Up pages.



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GENERAL MODULES

The next slides of this document will present the modules available for anyone using YvY, no requiring registration.



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REGISTER

Once we enter the main page we must register and have an account to use YvY by clicking on "Register" and after that, select the type of register you are performing.

If you are an organization, you have to select 'Organización' and if you are a normal user or collaborator you need to select 'Productor'.



REGISTER

To create a user we must complete all the fields requested on the registration page, all the fields are required and you can add a profile picture for your organization or producer.

Registrar nueva organización

Todos los campos son obligatorios

Nombre de la organización

Descripción

País

Email

Foto perfil

Seleccionar archivo Sin archivos seleccionados

Contraseña 

He leído y acepto los [términos y condiciones](#) de YvY.

Registrar

Registration Form for Organization

Registrar nuevo usuario

Todos los campos son obligatorios

Nombre  Apellido

Descripción

Nombre de usuario  Teléfono

País 

Email

Foto perfil

Seleccionar archivo Sin archivos seleccionados

Contraseña 

He leído y acepto los [términos y condiciones](#) de YvY.

Registrar

Registration Form for Producer

Remember

The password must have at least
A capital letter
A special character (#*! etc.)
A number

LOGIN

Once the user has been created you will be able to log in with your e-mail and password, but remember to mark the check-box indicating you are an organization if you want to enter with your organization account!

Remember to check the box if you are login with your organization account



Hola, Te damos la bienvenida



YvY

¿Aun no tienes una cuenta? [Empecemos](#)

[Ingresar como Organización](#)

Email:

Contraseña:

Recordar

[¿Olvidaste Tu Contraseña?](#)

[Ingresar](#)



MODULES FOR PRODUCERS

The next slides of this document will present the modules available for normal users (producers).



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PRINCIPAL MENU FOR PRODUCERS

In the main menu you can view all the features offered by the application for the producers and enter each of them.
All the information provided by YvY is based on georeferencing, which is connected to the IBM Environmental Intelligence Suite database.



Profile
User





My Farms



Carbon Footprint



Water Footprint



Watering Needs



Agronomic Data



Weather Forecast



Seasonal Forecast



Historical Record



Soil Regeneration Plan



Sustainability Self Assessment



QR Code



Organizations



My Organizations



Minutes of Meeting



Sustainability Information



My Farms



Carbon Footprint



Water Footprint



Watering Needs



Agronomic Data



Weather Forecast



Seasonal Forecast



Historical Record



Soil Regeneration Plan



Sustainability Self Assessment



QR Code



Organizations



USER PROFILE

This feature offers the user the ability to update the information of the profile, just by clicking on the principal menu as shown in the first picture and changing the inputs as required.

The diagram illustrates the navigation path from the main menu to the user profile. At the top, there is a circular icon with a photo of a person and the text "Felipe User". Below this, three menu items are listed: "My Farms" (with a farm icon), "Carbon Footprint" (with a globe icon), and "Water Footprint" (with a water icon). A large yellow arrow points downwards from these menu items to a detailed "User Profile" form at the bottom. The "User Profile" form contains fields for Name (Name: Felipe, Last Name: Castro), User (User: felipe-castro, Phone Number: 86540394), Description (empty), Country (Country: Costa Rica), and Email (Email: felipe-castro@ibm.com). At the bottom of the form, there is a note: "To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it." Below the note are two green buttons: "Update" and "Edit Photos/Videos".

User Profile

Name: Felipe Last Name: Castro

User: felipe-castro Phone Number: 86540394

Description:

Country: Costa Rica Email: felipe-castro@ibm.com

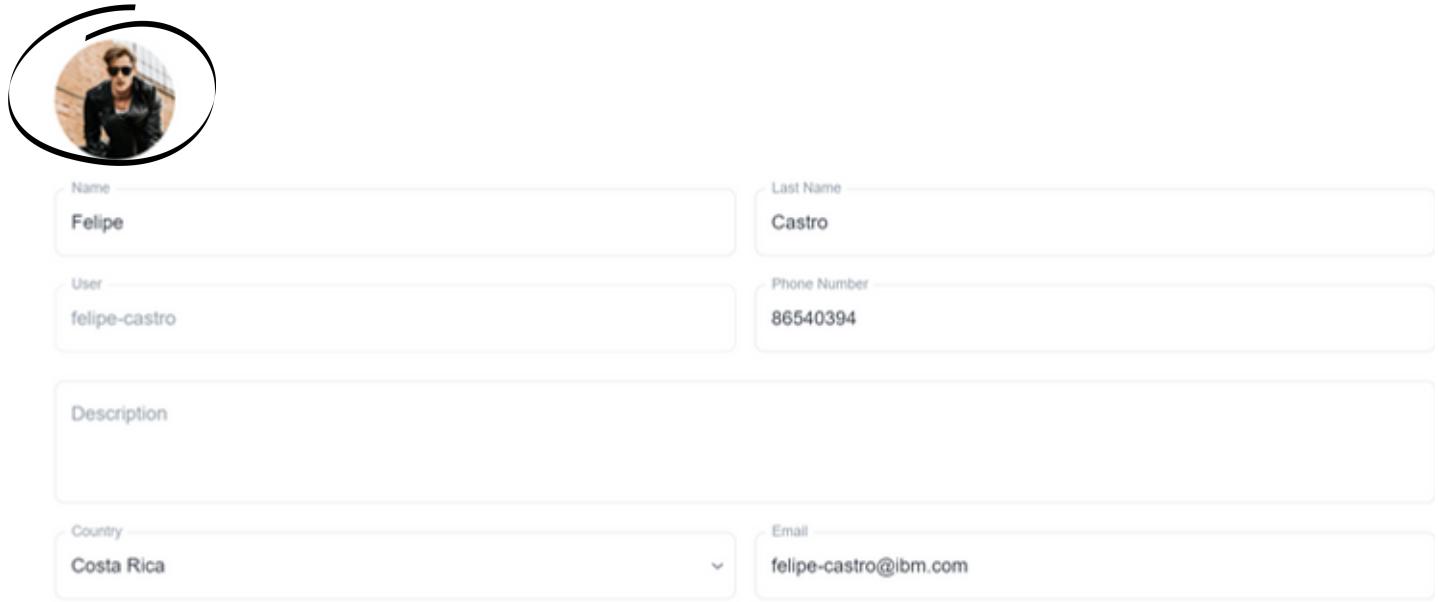
To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it.

Update **Edit Photos/Videos**

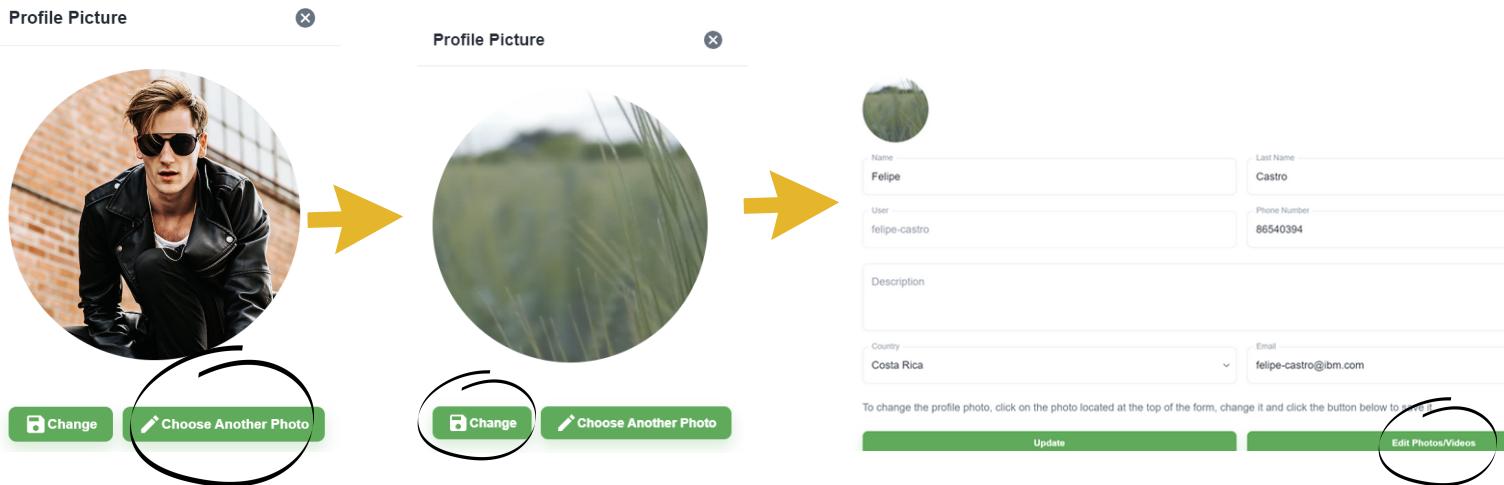
Fields that can be changed to be updated, use the green button located at the end of the form to update the fields

USER PROFILE

Also, you can update the photo of your profile by clicking on the actual photo, then selecting a new one, clicking save and then updating. In the following photos the previous steps are illustrated.



A screenshot of a user profile form. At the top left is a circular profile picture of a man in sunglasses and a leather jacket. To the right are several input fields: Name (Felipe), Last Name (Castro), User (felipe-castro), Phone Number (86540394), Description (empty), Country (Costa Rica), and Email (felipe-castro@ibm.com). Below the form is a note: "To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it." At the bottom are two green buttons: "Update" and "Edit Photos/Videos".



The diagram illustrates the process of changing a profile picture. It shows two stages. In the first stage, a large circular profile picture of a man in sunglasses is shown. Below it are two buttons: "Change" (with a camera icon) and "Choose Another Photo" (with a pencil and camera icon). A large yellow arrow points from the top of the first stage to the second stage. In the second stage, the same profile picture has been replaced by a smaller, blurred circular preview of a new photo. Below this preview are the same two buttons: "Change" and "Choose Another Photo". To the right of the preview is a smaller version of the user profile form from the first image, showing the updated profile picture and other user information. A second yellow arrow points from the bottom of the first stage to the bottom of the second stage.

FARMS REGISTRATION

The first step for getting access to the information of each functionality is to register your farm. You must click on "My farms" and then on the "Add farm" button to register it.

The screenshot shows the YvY platform interface. On the left, there is a sidebar with the YvY logo at the top, followed by user information (Felipe, User), a green button labeled "My Farms" (which is circled in yellow), and other options: Carbon Footprint, Water Footprint, Watering Needs, and Agronomic Data. The main content area is titled "Farms Registration". It features a "Home" icon, a "Find farm" search bar, and a "Add Farm" button. Below these are three tables listing farms:

Name	Phone	Owner	Country	Location	Certificate	More
Farm Test #2	87654321	Felipe	México	Open	Open Certificates	⋮
Farm Test #3	84976132	Felipe	Argentina	Open	Open Certificates	⋮
Jarm Test #1	12345678	Felipe	Costa Rica	Open	Open Certificates	⋮

At the bottom right of the main content area, there are buttons for "Rows per page" (set to 5), "1-3 of 3", and navigation arrows. A yellow arrow points from the "My Farms" button in the sidebar to the "Add Farm" button in the main content area.

FARMS REGISTRATION

The farm registration page will open where you must complete the farm data, the location of the farm is automatically set to your actual location but you can manually set the point in a different place or use the latitude and longitude to set a new location in case is required to do it.

In this step, you can upload any file or badge associated with your production, which you can share through QR codes.

Once you have completed the data you can save them to continue with the following functionalities.

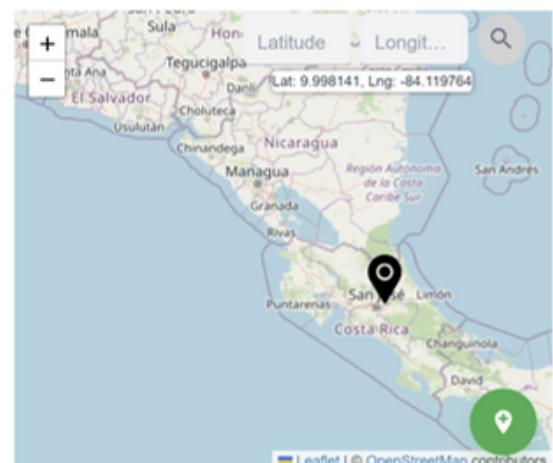
Add Farm

Name	Phone
Country	inputs.surface
Luis	Inicio de la propiedad DD/MM/YYYY
Tipo de cerco perimetral	

Recursos Hídricos

Lago Laguna Río Pozo Otro

You can upload your sustainable agriculture certificates and/or farm best practices



FARMS REGISTRATION

Once the farm is registered, you will be able to see it in the list and make several options available.

Filtrar por País



Ver Detalles



Name	Phone	Owner	Location	Certificate	
Torihiome	32459871	Luis	Argentina	<button>Open</button>	<button>Open Certificates</button> <button>Check</button>
Kiminawa	32568976	Luis	Costa Rica	<button>Open</button>	<button>Open Certificates</button> <button>Check</button>
Luis Castro	67789054	Luis	México	<button>Open</button>	<button>Open Certificates</button> <button>Check</button>



Rows per page: 5 ▾ 1–3 of 3 < >

Information about the location and Google Earth view of the farm.

Farm location

Farm: LUIS CASTRO, Owner: Luis , Country:México



Latitude

19.476199168489252

Longitude

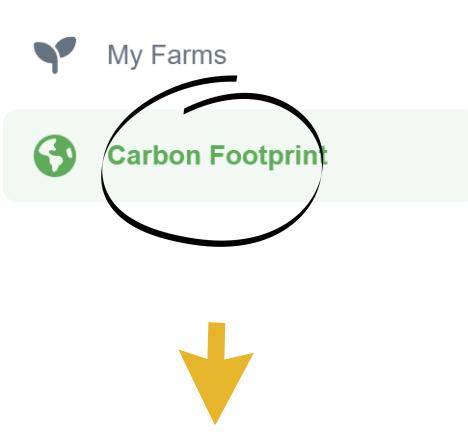
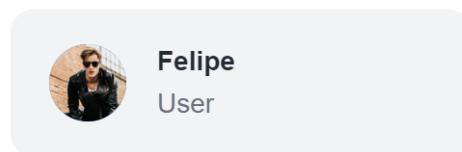
-99.97773265735097

[Google Earth](#)

[Close](#)

CARBON FOOTPRINT

You can use this module to calculate the carbon footprint based on the farm selected and other information requested. In case you don't know what is the carbon footprint, it is a measure of the amount of carbon dioxide and other carbon compounds emitted due to the consumption of fossil fuels by a particular person, group, etc.



Carbon Footprint

A form interface for calculating a carbon footprint. It includes a dropdown menu labeled 'Farm' with a downward arrow, and a green rectangular button labeled 'Carbon Footprint Calculation'.



CARBON FOOTPRINT

To perform the carbon footprint calculation, you must select the farm:

Carbon Footprint



Carbon Footprint Calculation

Select an option

Farm Test #3

Jarm Test #1

Farm Test #2



After clicking on the green button, you have to enter the year for which you want to make the calculation, the emission sources and the emission factors.

Carbon Footprint Calculation

Year

2021

Category

Fire Extinguishers

Emission factor

PFC-143

Consumption (Kg)

Calculate

Cancel



CARBON FOOTPRINT

Once the source and emission factors have been entered, you must enter the annual consumption for each of the emission factors.

Carbon Footprint Calculation

Year 2021	Category Fire Extinguishers	Emission factor PFC-143
Consumption (Kg) 22	Calculate Cancel	

As a result you will obtain the amount of emissions in Kg of Co2 equivalent for each of these emission sources, these results will be stored in the database.

Calculation Results

145860.00 Kg CO2eq

Close

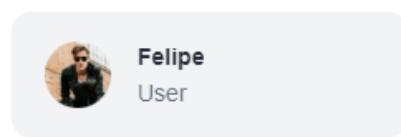
CARBON FOOTPRINT

The calculations performed can be viewed in detail, deleted, filtered according to the available options and the total of the calculations can be viewed at the end of the table.

Apply Filters					
Filter By...		Filter	Actions		
Emission Factor	▼	PFC-143	▼	View Details	Delete Calculation
Calculation date	Emission source	Result	Calculation year	Details	Actions
Sep 22, 2023	Urea	528.00 Kg CO2eq	2021	See more	
Sep 22, 2023	PFC-143	225420.00 Kg CO2eq	2022	See more	
Total de Huella de Carbono:				225948.00 Kg CO2eq	
Total of the calculations' s sum					

WATER FOOTPRINT

The calculation of the water footprint offered by the application is based on crop evapotranspiration according to its stage of development, the water footprint represents the water consumption by the crop over a crop cycle from planting to harvest, and from harvest to harvest in the case of perennial crops.



Water Footprint

A form interface for calculating a water footprint. It includes a dropdown menu labeled "Farm" with a downward arrow, and a green rectangular button with white text that reads "Calculate Water Footprint".

WATER FOOTPRINT

To perform the calculation select your farm:

Water Footprint

Farm ^ Calculate Water Footprint

Select an option

- Farm Test #3
- Jarm Test #1
- Farm Test #2

Fill in the fields with your product, planting date, harvest date, harvested quantity and number of hectares:

Water Footprint Calculation



Product Potato

Sow Date 15/08/2023 Calendar icon

Harvest Date 22/08/2023 Calendar icon

Tons 8

Hectares 3

Calculate Cancel



WATER FOOTPRINT

In the image below you can see the calculation of the water footprint offered by the application.

Calculation Results

Total Water Footprint:	13 mm
Green Water Footprint:	1 mm
Blue Water Footprint:	11 mm

Ok!



WATERING NEEDS

This functionality provides general information about the irrigation needs at your location, for 15 days hour by hour throughout the day, during the day, and at night, starting from the time the information is requested. To obtain this information you must:

1. Click on the button "irrigation needs".
2. Select the farm for which you require information.

The screenshot shows a mobile application interface for irrigation needs. At the top, there is a user profile section with a placeholder image for 'Felipe' and the text 'User'. Below this is a navigation bar with four items: 'My Farms' (with a leaf icon), 'Carbon Footprint' (with a globe icon), 'Water Footprint' (with a water drop icon), and 'Watering Needs' (with a water drop icon). The 'Watering Needs' item is highlighted with a green background and a white border. A large yellow arrow points downwards from this button towards a grid of cards below. The grid contains 16 cards, arranged in a 4x4 pattern, each representing a specific date and time period. Each card displays the date and time, followed by two entries: one for the morning and one for the evening. Each entry includes the 'Watering needs Index' (e.g., 9 or 10) and the 'Watering needs' level (e.g., High or Very High). The first card on the left is circled in black, indicating it is the selected farm. The cards are as follows:

Date	Time	Watering needs Index	Watering needs
Friday, August 18th, 2023	04:00 p.m.	9	High
Saturday, August 19th, 2023	04:00 a.m.	9	High
Sunday, August 20th, 2023	04:00 a.m.	9	High
Monday, August 21st, 2023	04:00 a.m.	9	High
Tuesday, August 22nd, 2023	04:00 a.m.	10	Very High
Wednesday, August 23rd, 2023	04:00 a.m.	10	Very High
Thursday, August 24th, 2023	04:00 a.m.	10	Very High
Friday, August 25th, 2023	04:00 a.m.	10	Very High
Saturday, August 26th, 2023	04:00 a.m.	10	Very High
Sunday, August 27th, 2023	04:00 a.m.	10	Very High
Monday, August 28th, 2023	04:00 a.m.	10	Very High
Tuesday, August 29th, 2023	04:00 a.m.	10	Very High

WATERING NEEDS

The values provided by the application are qualitative and quantitative. It provides an irrigation need index and the following descriptions:

- Don't Water.
- Moderate.
- High
- Very high.

Friday, August 18th, 2023

07:00 a.m.
Watering needs index: 1
Watering needs: Don't water

07:00 p.m.
Watering needs index: 1
Watering needs: Don't water

Saturday, August 19th, 2023

07:00 a.m.
Watering needs index: 1
Watering needs: Don't water

07:00 p.m.
Watering needs index: 1
Watering needs: Don't water

Tuesday, August 22nd, 2023

07:00 a.m.
Watering needs index: 5
Watering needs: Moderate

07:00 p.m.
Watering needs index: 5
Watering needs: Moderate

Wednesday, August 23rd, 2023

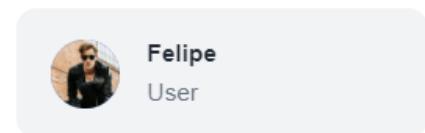
07:00 a.m.
Watering needs index: 7
Watering needs: High

07:00 p.m.
Watering needs index: 8
Watering needs: High



AGRONOMIC DATA

This functionality provides information on agronomic interest based on georeferencing, the crop of interest, the percentage of maturity or stage of the crop, and the depth of the soil.



My Farms

Carbon Footprint

Water Footprint

Watering Needs

Agronomic Data



Agronomic Data

The screenshot shows a user interface for "Agronomic Data". At the top, there is a dropdown menu labeled "Farm" with a green border, which is circled in black. To its right are dropdown menus for "Crop", "Ripeness percentage %", and "Soil depth cm". Below these is a red banner with the text "Choose a Farm, Crop and Ripeness percentage to begin". On the left, there is a sidebar with a list of farm test entries: "Farm Test #3", "Jarm Test #1", and "Farm Test #2".

Farm selection by the user.

AGRONOMIC DATA

The screenshot shows a mobile application interface for agronomic data. On the left, there is a sidebar with a home icon and the title "Agronomic Data". Below it is a dropdown menu set to "Farm". A large red rectangular button is positioned in the center of the screen. To the right of the button, there is a list of crop names: Olives, Avocado, Garlic, Apricots, Artichoke (Year 1), Artichoke (Year 2), Cotton, Almonds, Celery, Rice, Oats, Banana (Year 1), Banana (Year 2), Sweet Potato, Berries, Eggplant, and Broccoli. Above the list, there are icons for a UK flag, a question mark, a lightbulb, and a user profile picture. At the bottom right, there is a green circular icon with a white speech bubble symbol.

Crop	Ripeness percentage	%	Soil depth	cm
Garlic	60	%	20	cm

Crop selection by the user

The screenshot shows the same mobile application interface as before, but now with specific values entered. The dropdown menus show "Farm Test #2" and "Garlic". The "Ripeness percentage" field contains the value "60" and has a red circle around it. The "Soil depth" field contains the value "20" and also has a red circle around it. The "cm" unit is shown at the end of the soil depth input field.

Farm	Crop	Ripeness percentage	Soil depth	cm
Farm Test #2	Garlic	60	20	cm

Entering percentage of crop maturity and soil depth (the last data is optional).

AGRONOMIC DATA

Friday,
August 18,
2023

12 PM
Crop



Evapotranspiration:
0.42 mm/hour

Soil humidity:
25.1%

Soil temperature:
18°C

Spraying
temperature
inversion: -5.34

1 PM
Crop



Saturday,
August 19,
2023

12 AM
Crop



Evapotranspiration:
-0.03 mm/hour

Soil humidity:
26.7%

Soil temperature:
18°C

Spraying
temperature
inversion: 0.45

**WARNING, DO
NOT SPRAY**

Sunday,
August 20,
2023

12 AM
Crop



Evapotranspiration:
-0.02 mm/hour

Soil humidity:
29.3%

Soil temperature:
18°C

Spraying
temperature
inversion: 0.17

**WARNING, DO
NOT SPRAY**

Monday,
August 21,
2023

12 AM
Crop



Evapotranspiration:
-0.02 mm/hour

Soil humidity:
30.2%

Soil temperature:
18°C

Spraying
temperature
inversion: 0.23

**WARNING, DO
NOT SPRAY**

From this information, the functionality gives values of:

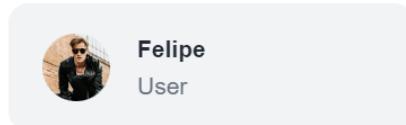
- Soil temperature.
- Evapotranspiration
- Soil moisture
- Thermal inversion and recommendations for spraying.

The data is generated for each hour of the day and for 15 future days from the consulted hour.

- The data must be entered by the user.

WEATHER FORECAST

This functionality provides hourly and daily weather data for 15 future days.



My Farms

Carbon Footprint

Water Footprint

Watering Needs

Agronomic Data



Weather Forecast

Date and Time

08/22/2023 03:00



Choose a date and time.

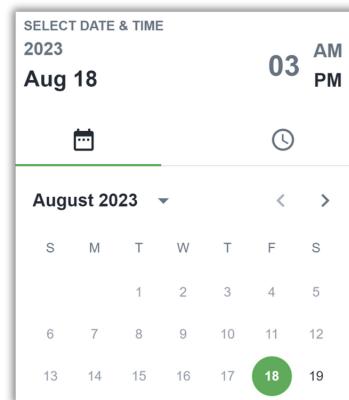
Please choose a date and time.



WEATHER FORECAST

The first thing to do is to select the date and time:

A screenshot of a mobile application interface titled "Weather Forecast". On the left, there is a button with a green plus sign and the text "Choose a farm". On the right, there is a "Date and Time" input field containing the text "08/18/2023 03:00 PM". A large black oval highlights this input field. A yellow arrow points from the bottom left towards the "Date and Time" field.



Then you will need to select the farm you wish to consult:

A screenshot of the same mobile application interface. The "Choose a farm" button is visible on the left. On the right, there is a dropdown menu with the placeholder text "Select an option". A large black oval highlights this dropdown. Below it, a list of farm names is shown: "Select an option", "Farm Test #3", "Jarm Test #1", and "Farm Test #2".

WEATHER FORECAST

You will get the following results after selecting the desired date, time, and farm:

Weather Forecast

08/18/2023 03:00 PM



Farm Test #2

Latitude: 20.092245167354918, Longitude: -99.57226515148646



Selected hour



Status: Thunderstorms
UV Index: 1
Cloud Cover: 88 %



Temperature: 17 °C
Feels Like: 16 °C



Humidity: 69 %
Positive Pressure: 1009.82



Chance: 62 % (Rain)
Pp: 0.08 mm



Speed: 22 km/h
Direction: ENE

You will also get a summary of temperature and precipitation for the next 15 days:

Next 15 days

Fri 18 aug



15 °C / -
(1.77 mm)

Sat 19 aug



12 °C / 20 °C
(12.66 mm)

Sun 20 aug



10 °C / 16 °C
(0 mm)

Mon 21 aug



11 °C / 20 °C
(2.96 mm)

Tue 22 aug



11 °C / 21 °C
(0 mm)

Wed



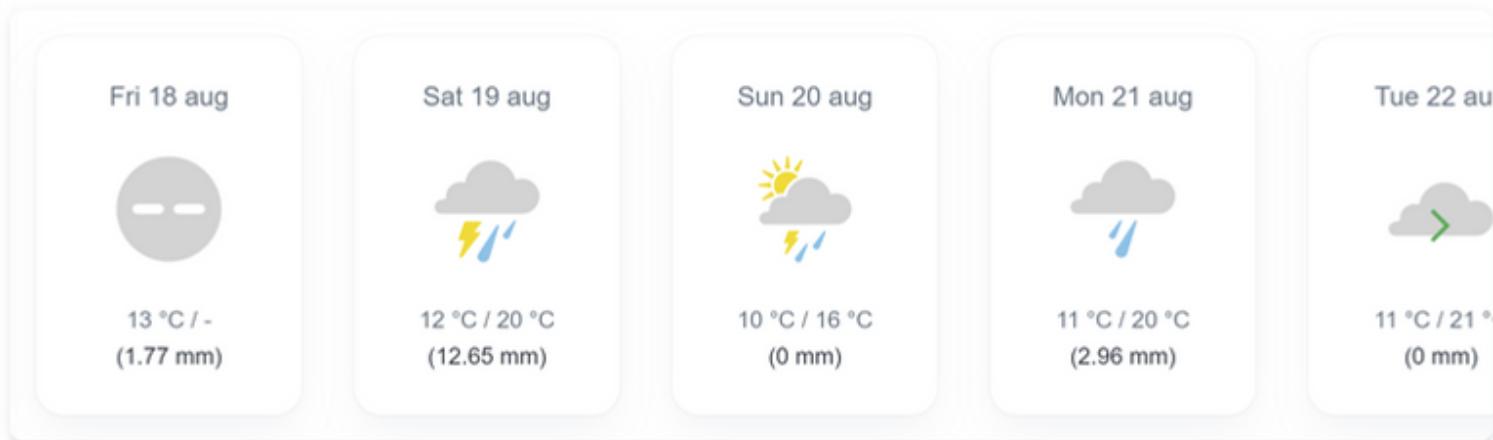
12 °C
(1)



WEATHER FORECAST

Also you can add more farms as required to get the weather forecast with the same date and time previously selected:

Next 15 days



 Choose a farm

Farm
Select an option

SEASONAL FORECAST

The objective of this module is to identify the deviation of precipitation and temperatures compared to historical records. It provides an overview of the increase or decrease of these variables, in a range of time; weekly, monthly, or quarterly.



Felipe

User



My Farms



Carbon Footprint



Water Footprint



Watering Needs



Agronomic Data



Weather Forecast



Seasonal Forecast



Seasonal Forecast

Farm	Forecast Type	Time Range	Date(s)
Farm to calculate	Forecast type to choose	Time range	Date to calculate
<input type="button" value="Show"/>			



SEASONAL FORECAST

The user must select the farm, the variable to compare (rainfall or temperature), and the time range of the forecast. The user must also select a date for that range.

Seasonal Forecast

Farm

Select an option

Farm Test #3

Jarm Test #1

Farm Test #2

Forecast Type

Time Range

Date(s)

Farm Selection.



Seasonal Forecast

Farm

Farm Test #2

Farm to calculate

Show

Forecast Type

Select an option

Temperature Forecast

Precipitation Forecast

Time Range

Date(s)

Selection of the variable to be measured.

SEASONAL FORECAST

Seasonal Forecast

Farm: Farm Test #2 | Forecast Type: Temperature Forecast | Date(s):

Farm to calculate | Forecast type to choose | Select an option: Quarterly, Monthly, Weekly

Show

Selection of time range to be evaluated.



Seasonal Forecast

Farm: Farm Test #2 | Forecast Type: Temperature Forecast | Time Range: Quarterly | Date(s):

Farm to calculate | Forecast type to choose | Time range: Select an option

Show

- January 2024 - March 2024
- December 2023 - February 2024
- November 2023 - January 2024
- October 2023 - December 2023
- September 2023 - November 2023

Selection of period to be evaluated.

SEASONAL FORECAST

Once all the fields are selected the application will return a corresponding analysis, in this sample we see that the temperatures for the month of March will be higher compared to the historical records and will increase by 0.80 C°.

Seasonal Forecast

Farm Farm Test #2 Forecast Type Temperature Forecast Time Range Quarterly Date(s) January 2024 - March 20... Farm to calculate Forecast type to choose Time range Date to calculate

Show

January 2024 - March 2024

Warmer than usual (0.80 °C)

Quarterly temperature will be higher compared to average records for this location.

 Take into account these values to plan and/or optimize the selection of crops and crop varieties (more resistant to temperature), cultural work, sowing or planting date, forecast of harvesting times or variable blooming according to these conditions and the possibility of needing irrigation.

FARM AND LOT MANAGEMENT

In this section, you can manage the general information of the farm and its respective lots. In the image below you can see information on how to access these two functionalities.

It is important to emphasize that you must select the farm to use the functionalities

Register

Home > Historical Register > Farms

Farm
Haiku

General Information

Lots

Felipe
User

- My Farms
- Carbon Footprint
- Water Footprint
- Watering Needs
- Agronomic Data
- Weather Forecast
- Seasonal Forecast
- Historical Record**
- Farms Information
- Agriculture Productions

FARM AND LOT MANAGEMENT

With the first option called "General Information" you can view the farm information and modify it.

The diagram illustrates the flow from viewing general information to modifying it. It shows two versions of a 'General Information' screen. The top version has a circled 'Edit' button with a yellow arrow pointing down to the bottom version, which is a detailed edit screen. Both screens include a map and coordinate fields.

General Information

Finca:	Haiku #1
Propietario	Luis Castro
Fecha de inicio	31 de agosto de 2023
País	Costa Rica
Superficie	23 ha.
Tipo de cerco perimetral	Perimetral
Número de infraestructuras	23
Recursos Hídricos	LAGO, LAGUNA

Map: San Rafael, Costa Rica. Coordinates: Latitud 10.0204544, Longitud -84.099072

Latitud: 10.0204544 | Longitud: -84.099072

[Go Back](#)

General Information

Nombre de la finca Haiku #1	Superficie de la finca 23 ha
Propietario Luis Castro	Inicio de la propiedad 31/08/2023
Tipo de cerco perimetral Perimetral	Cantidad de infraestructura 23
País Costa Rica	
Recursos Hídricos	
<input checked="" type="checkbox"/> Lago	
<input checked="" type="checkbox"/> Laguna	
<input type="checkbox"/> Río	
<input type="checkbox"/> Pozo	

Map: Costa Rica coastline. Coordinates: Latitud 9.169295649623473, Longitud -83.76044514535005

Latitude: 9.169295649623473 | Longitude: -83.76044514535005

[Cancelar](#) [Registrar](#)

From here you can edit the information and modify it.

FARM AND LOT MANAGEMENT

With the second option called " Lots" you can view the information of the lots, add lots, edit them and if required delete them.

The screenshot shows the 'Lots' management screen. At the top, there is a large button labeled 'Lots' with a dashed-line icon of a plot of land above it. Below this is a navigation bar with links: 'Inicio', 'Registro Histórico', 'Fincas', and 'lotes'. On the left, there is a dropdown menu showing 'Finca' and 'Haiku'. A green button labeled 'Añadir Lote' is highlighted with a yellow arrow pointing to it. The main area displays a table with columns: 'Lot identification', 'Location', 'Surface (m2)', 'characteristics', and 'Observable Notes'. Under 'Lot identification', there is a row for 'Sector #1' with a green 'Open' button. To the right of the table are buttons for 'Check', 'no', and more options. Below the table is a map showing the location of the farm, with a specific plot highlighted in green. At the bottom, there are buttons for 'Delete' (with a trash icon) and 'Edit' (with a pen icon). The bottom left corner shows coordinates: Latitude 19.476199168489252 and Longitude -99.97773265735097, along with links to Google Earth and a close button.

You must select the farm to manage your lots

Lotes

Añadir Lote

Lot identification Location Surface (m2) characteristics Observable Notes

Sector #1 Open 23 Check no ...

Farm location

Farm: LUIS CASTRO, Owner: Luis , Country:México

Presa Villa Victoria Leaflet | © OpenStreetMap contributors

Latitude 19.476199168489252 Longitude -99.97773265735097 Google Earth Close

Rows per page: 5 1-1 of 1 < >

Delete

Edit

You can view the feature information with this button.

With these two options you can delete the lot or edit its information.

AGRICULTURAL PRODUCTION

In this section you can manage different elements of your production associated to your farms and lots, in the image below you can see all the available functions.

Felipe
User

My Farms

Carbon Footprint

Water Footprint

Watering Needs

Agronomic Data

Weather Forecast

Seasonal Forecast

Historical Record

Farms Information

Agriculture Productions

It is important to emphasize that you must select the farm to use the functionalities.



AGRICULTURAL PRODUCTION

Each of the functionalities shown above work in a similar way, just follow the steps below:



Production Information

Select the function you want to use, in this case the one shown in the image above.



Información de la producción

Inicio > Registro Histórico > Producción agrícola > Información de la producción

A screenshot of a web application. At the top, there is a navigation bar with the path: Inicio > Registro Histórico > Producción agrícola > Información de la producción. Below the navigation, there is a search bar with the placeholder "Lote". A green button labeled "Añadir Registro" is circled with a black line. A blue banner at the bottom of the page displays the message: "i Seleccione un lote por favor". Two yellow arrows point downwards from the top section towards the "Lote" field and the "Añadir Registro" button respectively.

Then you must select the lot for which you want to add and manage records.

Once the lot is selected, you must use this button to add records of the selected option, in this case Agricultural Production.

AGRICULTURAL PRODUCTION

In the case of Agricultural Production these are the data requested to create the record:

Añadir nuevo registro Lote: Sector #1 X

Rendimiento estimado en kg/ha	Año YYYY
Fecha de cosecha DD/MM/YYYY	Especies cultivadas
Rendimiento obtenido en kg/ha	Destino del producto

Guardar

Once the record has been created we can delete and edit it:

Inicio > Registro Histórico > Producción agrícola > Información de la producción

Lote: Sector #1

Sector #1 Añadir Registro

Lote: Sector #1

Estimated yeild	Year	Harvest Date	Species	Performance results	Product destination	More
-3	2022	31/8/2023	Maiz y Cacao	34	Chile	⋮
22	2017	9/8/2023	Rice	23	China	⋮



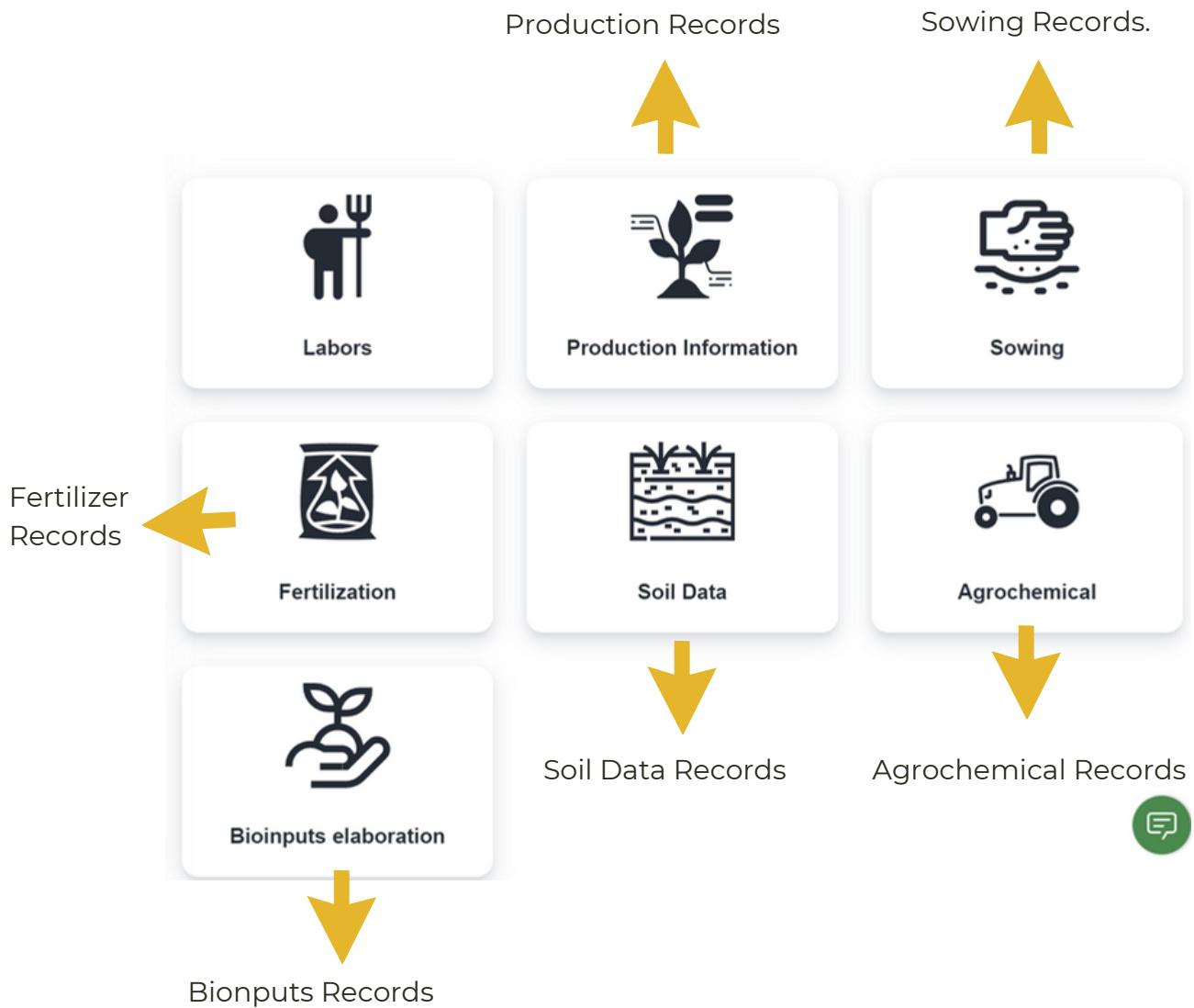
trash Delete

pencil Edit

With these two options you can delete the record or edit its information.

AGRICULTURAL PRODUCTION

With the other functionalities the process is the same as above, only that different types of records are generated.



ACCOUNTING

It is done in a similar way, records are created according to the selected category, in this case we can manage sales, revenues and expenses along with performance.



Sales



Revenues and Expenses



Performance

STAFF

It is done in a similar way, records are created according to the selected category, in this case we can manage the staff and suppliers of the selected farm.

Farm
Luis Castro ▾

↔



Staff Data

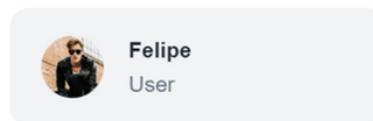


Suppliers



SOIL REGENERATION PLAN

In this module you can get recommendations and procedures about how to treat the soil based on different categories and the information you provide to the questions presented on them.



- My Farms
- Carbon Footprint
- Water Footprint
- Watering Needs
- Agronomic Data
- Weather Forecast
- Seasonal Forecast

- Historical Record
- Soil Regeneration Plan

The background of the page shows a photograph of a lush green field of crops, likely wheat, under a blue sky with white clouds.

WHY THE SOIL IS AMAZING?

The soil is one of the most underestimated and poorly understood, wonders on our fragile planet. Knowing their value and care is vitally important.

[CONTINUE](#) [WATCH VIDEO](#)

A small circular icon with a speech bubble and a checkmark, located in the bottom right corner of the main content area.

SOIL REGENERATION PLAN

These are the categories where you can answer questions and based on that set tasks to complete in order to regenerate your soil.

Carbon Capture

Soil

Tillage

Fertilization

Pruning

Crop Rotation

Irrigation



Each soil has a vocation, which is determined by the materials that originated it, the climate, the weather, the vegetation, among other factors.

Do you know the vocation of the soil?



NO

YES

Example of one of the questions available through the plan



SOIL REGENERATION PLAN

This is one example of the tasks you can create after answering the questions:

Plan your next actions for land cover management

Use of padding

Goal *	year *	lot *	Material *
Quantity material *	Deadline for compliance * dd/mm/aaaa <input type="button" value=""/>	Currency <input type="button" value="▼"/>	Budget *
Notes	Person in charge *	Tasks to achieve goal *	
<input type="button" value="Create"/>			



SOIL REGENERATION PLAN

In the last option you can check the tasks you have created and filter them by the categories available:

The screenshot shows a user interface for managing soil regeneration tasks. On the left, a sidebar titled "My tasks" lists categories: Cover Management (selected), Tillage, Fertilization, Pruning Management, Crop Rotation, and Irrigation. A large yellow arrow points upwards from the bottom of the sidebar towards the "Tasks" section. In the center, a main panel has a header "Tasks" circled in black. Below it is a table with columns: Year, Deadline Date, Goal, and Complete. The "Cover Management" category is selected in the table header. A large yellow arrow points downwards from the "Tasks" header towards the table. At the bottom right of the main panel, there are buttons for "Rows per page:" (set to 5), "0-0 of 0", and navigation arrows. At the very bottom, there are "Back" and "Continue" buttons.

Year	Deadline Date	Goal	Complete

SUSTAINABILITY SELF-ASSESSMENT

This functionality offers the possibility of self-evaluating production practices based on 16 MAG Costa Rica sustainability criteria used in the Tu-MoDeLo Program.



Felipe
User



My Farms



Carbon Footprint



Water Footprint



Watering Needs



Agronomic Data



Weather Forecast



Seasonal Forecast



Historical Record



Criterias of Sustainability

Choose an option:

Tu-MoDeLo (Fundecooperación - MAG)

Smart Planet Standard



Sustainability Self Assessment



SUSTAINABILITY SELF-ASSESSMENT

Select the title shown in the image to access the questionnaires based on each criteria:

Criterias of Sustainability

Choose an option:

Tu-MoDeLo (Fundecooperación - MAG)

Smart Planet Standard

At the same time, we must select the farm we are evaluating:

Select Farm

Farm Test #2

Select Farm

Farm Test #3

Jarm Test #1

Farm Test #2

→

Criteria	Score	Action
[Criteria 1] The Farm/Company uses and manages water resources responsibly	0 %	Recomendado
[Criteria 2] The Farm/Company performs a treatment of wastewater from agricultural and other processes (domestic)	0 %	Recomendado
[Criteria 3] The Farm/Company identifies natural phenomena (heavy rains, droughts, others) their frequency, and intensity, and their potential risks	0 %	Recomendado
[Criteria 4] The Farm/Company implements methods of observation and prevention of pests and diseases that may be presented by the product	0 %	Recomendado
[Criteria 5] The Farm/Company manages, registers, and stores fertilizers and pesticides allowed by law in a responsible manner, if applicable.	0 %	Recomendado
[Criteria 6] The Farm/Company manages leftover pesticides responsibly	0 %	Recomendado
[Criteria 7] The Farm/Company performs a proper soil management to avoid its loss.	0 %	Recomendado
[Criteria 8] The Farm/Company practices biodiversity and wildlife conservation	0 %	Recomendado
[Criteria 9] The Farm/Company performs an integrated management of solid waste (organic and inorganic)	0 %	Recomendado
[Criteria 10] The Farm/Company performs a responsible management of waste considered hazardous by law	0 %	Recomendado
[Criteria 11] The Farm/Company performs a responsible management of the sources of energy used	0 %	Recomendado
[Criteria 12] The Farm/Company implements a good health and safety practices: to prevent and avoid accidents; to be prepared in case of emergencies for a healthy work environment and for an adequate management of the worker's health	0 %	Recomendado

SUSTAINABILITY SELF-ASSESSMENT

Within each criteria, we will find questions with the option to answer yes or no and we will be able to upload documentation to support each answer.

X [Criteria 1] The Farm/Company uses and manages water resources responsibly Save

Minimum Indicators

Do you have registered water sources according to national legislation (concession, wells) or service receipt from ASADAS or AyA?

Yes No
 Upload Certificate

Do you use water storage systems for irrigation, drinking water, or others (reservoirs, rotoplast tank, others)?

Yes No
 Upload Certificate

Do you establish protection barriers with natural and native vegetation on the margins of watercourses, as well as keep a record of planted species?

Yes No
 Upload Certificate

Do you provide training to the people working on the farm (whether owners, managers or other workers) on topics related to this criteria?

Yes No
 Upload Certificate

GENERATE QR CODE

Based on the information stored in the application, users can generate QR codes to share or print it.



Felipe

User

 **QR Code**

 My Farms Carbon Footprint Water Footprint

 Watering Needs Agronomic Data Weather Forecast

 Seasonal Forecast Historical Record Soil Regeneration Plan

 Sustainability Self Assessment QR Code

Seleccione Finca

Farm Test #3

Huella de carbono y Huella hídrica

Huella hídrica

2023

Zanahoria

Banana año 1

Huella Carbono

2020

Certificados ambientales

Datos Personales

Nombre Correo electrónico Teléfono Fotos Videos País Apellido Descripción

Generar QR

GENERATE QR CODE

The application will display the stored data, the user will have to select the farm, and the data to be displayed in the QR.

Seleccione Finca

Farm Test #3

Huella de carbono y Huella hídrica

Huella hídrica
2023

Zanahoria
Banana año 1

Huella Carbono
2020

Certificados ambientales

Datos Personales

Nombre Correo electrónico Teléfono Fotos Videos País Apellido Descripción

Generar QR



Generated QR Code



[Download As A Image](#)

[Download As A PDF](#)

QR Code Generated, can be downloaded as image or pdf.

MY ORGANIZATIONS

In this module the producer can check the organization associated to him/her and in case of wanting to leave an organization, can do it via the actions column.

 Felipe
User

 My Farms

 Carbon Footprint

 Water Footprint

 Watering Needs

 Agronomic Data

 Weather Forecast

 Seasonal Forecast

 Historical Record

 Soil Regeneration Plan

 Sustainability Self Assessment

 QR Code

 Organizations

 My Organizations

 Invites Information

 Requests Information

My Organizations

Home > Organizations > Organization

Search Organization by Name

Organization ↓	Email	Country	Description	Actions
Cuatro Pinos	luisfelipecs97@gmail.com	Costa Rica	Cooperativas de Pruebas - Felipe Castro IBM	

Rows per page: 5 ▾ 1-1 of 1 < >



MY ORGANIZATIONS

The user can filter the organizations by name, just need to enter the name to search in the field indicated in the image below.

My Organizations

Home > Organizations > Organization

A screenshot of a web application titled 'My Organizations'. At the top left is a search bar with the placeholder 'Search Organization by Name', which has a black oval circle around it. Below the search bar is a table with columns: 'Organization' (sorted by name), 'Email', 'Country', 'Description', and 'Actions'. There is one visible row: 'Cuatro Pinos' (Email: luisfelipecs97@gmail.com, Country: Costa Rica, Description: Cooperativas de Pruebas - Felipe Castro IBM). At the bottom right of the table are buttons for 'Rows per page' (set to 5), '1-1 of 1', and navigation arrows. The entire interface has a light gray background.

To leave an organization the user needs to click in the three dots located in actions and after click on 'Withdrawal', the images below illustrate the steps to do it.



Confirm Withdrawal of the Organization

Are you sure you want to leave the organization Cuatro Pinos? Once completed, you will no longer be part of the organization



INVITES INFORMATION

In this module the users can accept or reject the invites sent by organizations to join them and you can filter them by the different states available or search based on the name of the organization.

 Felipe
User

 My Farms

 Carbon Footprint

 Water Footprint

 Watering Needs

 Agronomic Data

 Weather Forecast

 Seasonal Forecast

 Historical Record

 Soil Regeneration Plan

 Sustainability Self Assessment

 QR Code

 Organizations

 My Organizations

 Invites Information

Invitations Management

Home > Organizations > Invitations

State: All Invites

Search Request by Organization:

State	Organization	Message	Date of Submission	Actions
Approved	Un Pino unpino@gmail.com	La Organización Un Pino desea que usted se una a nuestro equipo. Valoramos su potencial y creemos que su participación sería de gran importancia para alcanzar nuestras metas.	Aug 1, 2023	

The actions are only available if the state is different to approved

Rows per page: 5 1-1 of 1

INVITES INFORMATION

In the image below you can see an explanation about the actions you can perform:

Invitations Management

Home > Organizations > Invitations

State	Organization	Message	Date of Submission	Actions
Approved	Un Pino unpino@gmail.com	La Organización Un Pino desea que usted se una a nuestro equipo. Valoramos su potencial y creemos que su participación sería de gran importancia para alcanzar nuestras metas.	Aug 1, 2023	

The actions are only available if the state is different to approved

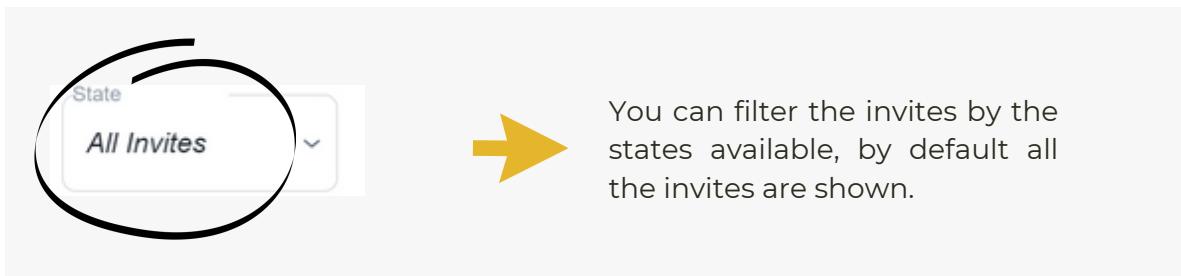


Rows per page: 5 ▾ 1-1 of 1 ⏪ ⏩

The value of the status can be:

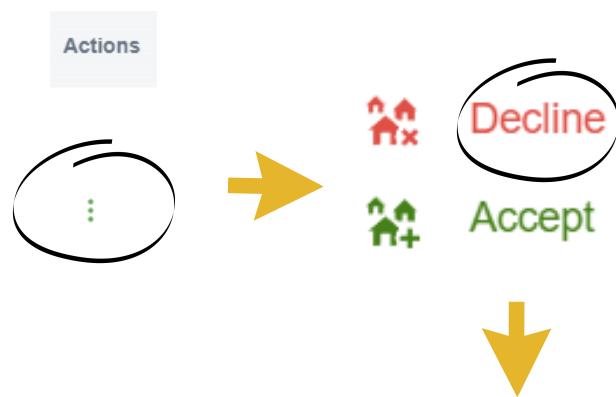
- **Pending:** Waiting for an answer.
- **Approved:** The invitation has been accepted by the user.
- **Rejected:** The invitation has been rejected by the user.

Use this three points to open the actions and see the actions you can perform, if the invite is having 'Approved' as the State, you can no longer perform any actions.



INVITES INFORMATION

You can approve or reject invites by following the steps detailed in the images below.



Confirm Decline of Invite

Are you sure you want to reject Un Pino's invite to join the organization?



REQUESTS INFORMATION

In this module the user can send a request to join an organization, and also can manage the requests sent and filter them by their status and the name of the organization



Felipe
User

My Farms

Carbon Footprint

Water Footprint

Watering Needs

Agronomic Data

Weather Forecast

Seasonal Forecast

Historical Record

Soil Regeneration Plan

Sustainability Self Assessment

QR Code

Organizations

My Organizations

Invites Information

Requests Information

Requests Management

Home > Organizations > Requests

State	Organization	Message	Date of Submission	Actions
Approved	Cuatro Pinos luisfelipecs97@gmail.com	Deseo unirme a su organización. Me considero un recurso valioso y creo que mi participación sería de gran importancia para alcanzar sus metas. Mi talento y habilidades pueden marcar la diferencia en el trabajo, y estoy emocionado por la posibilidad de colaborar juntos. ¡Estoy atento a la aceptación de mi solicitud!	Aug 1, 2023	

The actions are only available if the state is different to approved

Rows per page: 5 ▾ 1-1 of 1 < >



REQUESTS INFORMATION

In the image below you can see an explanation about the actions you can perform:

Use this green button to send the request



Requests Management

Home > Organizations > Requests

Send Request

All Requests

Search Request by Organization

Approved

Cuatro Pinos
luisfelipecs97@gmail.com

Deseo unirme a su organización. Me considero un recurso valioso y creo que mi participación sería de gran importancia para alcanzar sus metas. Mi talento y habilidades pueden marcar la diferencia en el trabajo, y estoy emocionado por la posibilidad de colaborar juntos. ¡Estoy atento a la aceptación de mi solicitud!

Aug 1, 2023

The actions are only available if the state is different to approved

Rows per page: 5 1-1 of 1

The value of the status can be:

- **Pending:** The request was sent to the organization but no answer yet.
- **Approved:** The request has been accepted by the organization.
- **Rejected:** The request has been rejected by the organization.

Use this three points to open the actions and see the actions you can perform, if the request is having 'Approved' as the State, you can no longer perform any actions.

All Requests

You can filter the requests by the states available, by default all the requests are shown.

REQUESTS INFORMATION

To send an request you just need to click on the green button with the label 'Send Request' and fill the mandatory fields of the form displayed, the organization must be registered in YvY in order to be able to send a request to join.

Request Data ×

Send Request →

Organization's email to request joining

Message of the Request

I want to join your organization. I consider myself a valuable resource and believe that my participation would be of great importance in achieving its goals. My talent and skills can make a difference in the job, and I'm excited about the possibility of collaborating together.
I will be attentive to the acceptance of my request!

All the fields are required to send the request, you can keep the default request message

Remember
The email of the organization to request to join must be from a organization already registered in
YvY





MODULES FOR ORGANIZATIONS

The next slides of this document will present the modules available for organizations.



Table of Contents

PRINCIPAL MENU FOR ORGANIZATIONS

In the principal menu for organizations you will be able to visualize all the functionalities offered by the application and enter each one of them. All these functionalities will give you the ability to manage your organizations with the members, their farms, calculations and other relevant information.

The screenshot displays the principal menu for organizations, organized into several main sections:

- My Organization**: Includes options for Products Registration, Dashboard Access, News, Financial Data, Certifications, and Calendar.
- My Farms**: Includes options for Farms Information, Carbon Footprint, Hydric Footprint, Water Needs, and Agronomic Data.
- Members Management**: Includes options for Members Information, Groups Information, Invites Information, Requests Information, and Georeferencing.
- Georeferencing**: A separate section represented by a globe icon.

At the top right of the menu, there are icons for language selection (English), user profile, and other system settings. The organization's logo, "Cuatro Pinos Organization", is also visible at the top center.

ORGANIZATION PROFILE

This feature offers the owner of the organization the ability to update the information of the organization, just by clicking on the principal menu as shown in the first picture and changing the inputs as required.

The screenshot shows the organization profile page. At the top is a logo featuring a sun, green fields, and the text 'YvY'. Below the logo is a circular button labeled 'Cuatro Pinos Organization' with a gear icon. A large black circle highlights this button. Below the button is a menu with four items: 'My Organization', 'My Farms', 'Members Management', and 'Georeferencing'. A yellow arrow points downwards from the menu area towards the form below. The form contains fields for 'Name' (Cuatro Pinos), 'Description' (Cooperativas de Pruebas - Felipe Castro IBM), 'Country' (Costa Rica), and 'Email'. To the left of the country field is a blue atom icon.

Name
Cuatro Pinos

Description
Cooperativas de Pruebas - Felipe Castro IBM

Country
Costa Rica

Email

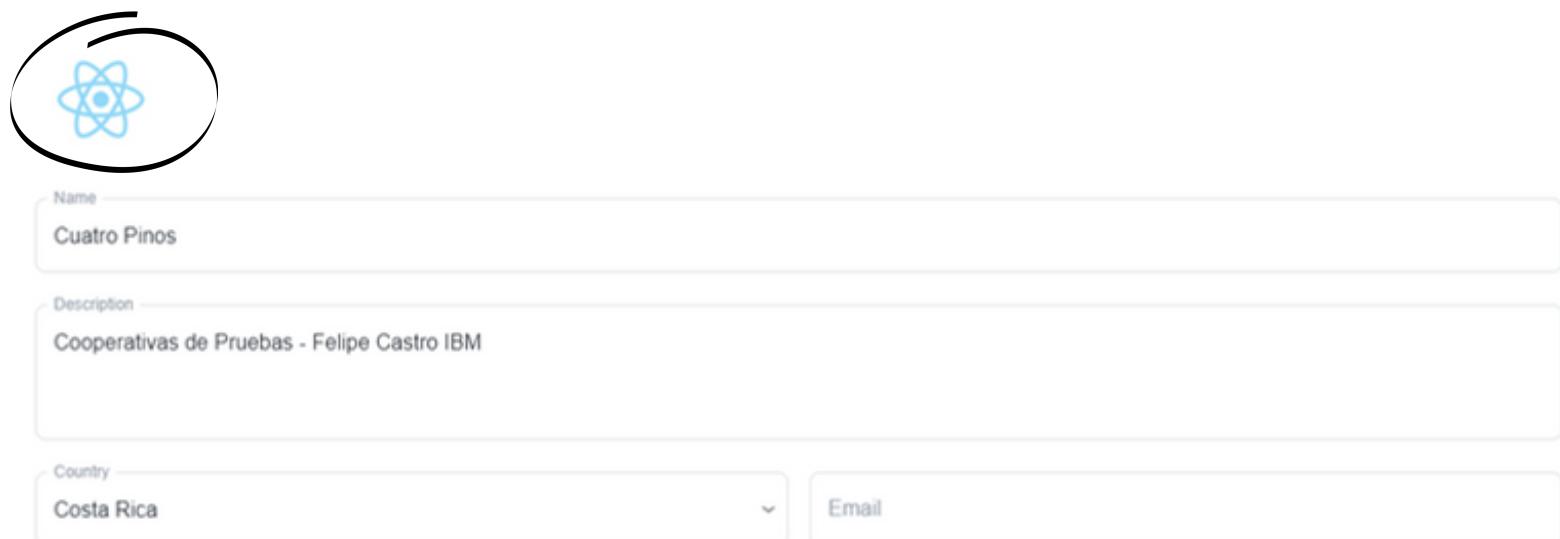
To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it.

Update

Fields that can be changed to be updated, use the green button located at the end of the form to update the fields

ORGANIZATION PROFILE

Also, you can update the photo of your organization's profile by clicking on the actual photo, then selecting a new one, clicking save and then updating. In the following photos the previous steps are illustrated.



Name
Cuatro Pinos

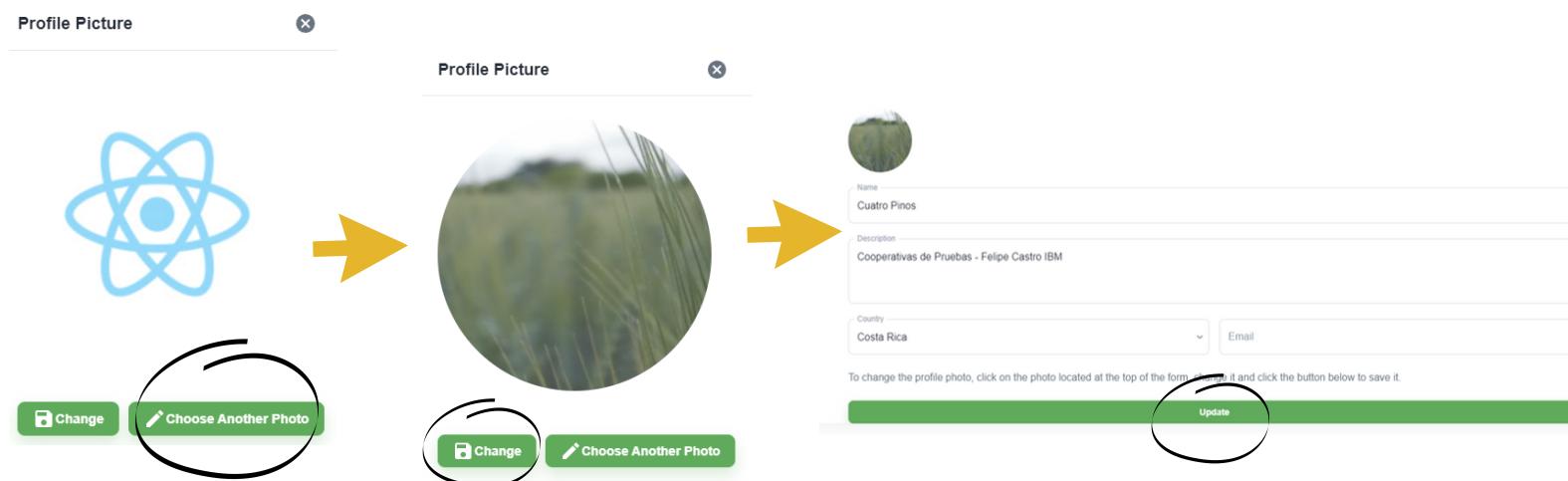
Description
Cooperativas de Pruebas - Felipe Castro IBM

Country
Costa Rica

Email

To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it.

Update



Profile Picture ×

Profile Picture ×

Change Choose Another Photo

Change Choose Another Photo

Name
Cuatro Pinos

Description
Cooperativas de Pruebas - Felipe Castro IBM

Country
Costa Rica

Email

To change the profile photo, click on the photo located at the top of the form, change it and click the button below to save it.

Update

FARMS MANAGEMENT

Thanks to this section you can manage the farms of the members related to your organization, edit their information or delete them as required.



My Organization

My Farms

Farms Information



Farms Management

Home > My Farms > Farms Information

+ Add Farm

Find farm

Name ↑	Phone	Owner	Country	Location	Certificate	⋮
Farm Test #2	87654321	Felipe Castro - felipe-castro@ibm.com	México	Open	Open Certificates	⋮
Farm Test #3	84976132	Felipe Castro - felipe-castro@ibm.com	Argentina	Open	Open Certificates	⋮
Jarm Test #1	12345678	Felipe Castro - felipe-castro@ibm.com	Costa Rica	Open	Open Certificates	⋮

Rows per page: 5 ⌂ 1–3 of 3 ⌂ ⌂

FARMS MANAGEMENT

You can add farms by clicking on the button 'Add Farm', all of the functionalities here are essentially the same as the ones located in 'Register Farm', check that section to get more information.

Farms Management

Home > My Farms > Farms Information

Use these options to delete or edit the farm

Name	Phone	Owner	Country	Location	Certificate	
Farm Test #2	87654321	Felipe Castro - felipe-castro@ibm.com	México	<button>Open</button>	<button>Open Certificates</button>	 Delete
Farm Test #3	84976132	Felipe Castro - felipe-castro@ibm.com	Argentina	<button>Open</button>	<button>Open Certificates</button>	 Edit
Jarm Test #1	12345678	Felipe Castro - felipe-castro@ibm.com	Costa Rica	<button>Open</button>	<button>Open Certificates</button>	

Rows per page: 5 ▾ 1–3 of 3 < >



Add Farm

Name

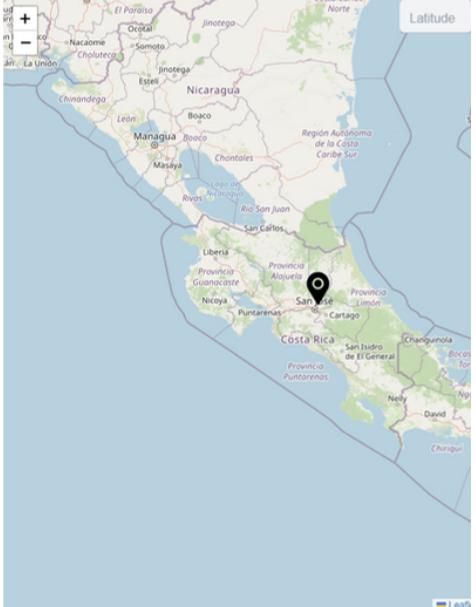
Phone

Country

Please assign an owner

Latitude Longitude

You can upload your sustainable agriculture certificates and/or farm best practices

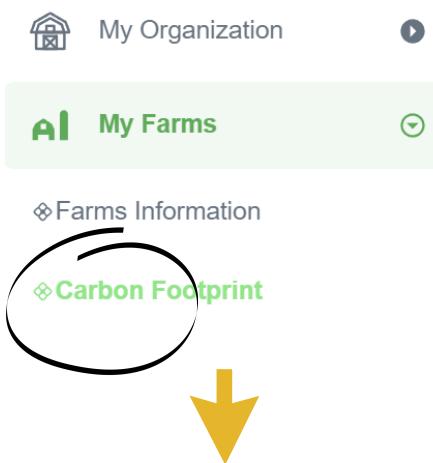


Fields required to add a farm and assign a member from your Organization as the owner



CARBON FOOTPRINTS MANAGEMENT

Here you can manage the carbon footprints of the farms related to the members of your organization.



Carbon Footprint Management

Home > My Farms > Carbon Footprint

Two dropdown menus. The left one is labeled "Farm" and the right one is labeled "Year". Both dropdowns have "All Years" selected.

i Please select a farm to get the available carbon footprints

CARBON FOOTPRINTS MANAGEMENT

To get the footprints, you just need to select the farm and based on that it will display all the carbon footprints related to the farm selected, and you can filter them by year. Also, delete the calculation if it is no longer required.

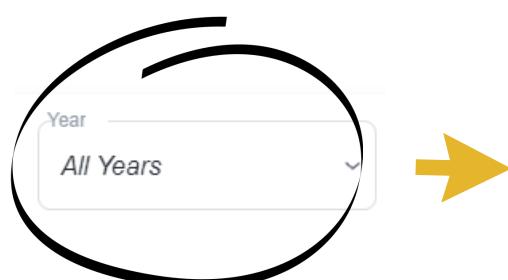
Carbon Footprint Management

Home > My Farms > Carbon Footprint

The screenshot shows a web-based application for managing carbon footprints. At the top, there are two dropdown menus: 'Farm' (set to 'Farm Test #3 - Felipe Castro') and 'Year' (set to 'All Years'). A large yellow arrow points from the 'Farm' dropdown down to the main content area. In the center, a table lists five carbon footprint calculations. Each row includes columns for 'Calculation date', 'Emission source', 'Result', 'Calculation year', and 'Actions'. The 'Actions' column contains a blue 'See more' link and a red delete icon. A total value '3852648.39 Kg CO2eq' is displayed at the bottom left of the table. A yellow arrow points from this total value to the text 'At the end of the table it will display the total generated by the Carbon Footprint based on the year selected' below it. On the right side of the table, another yellow arrow points to a red delete icon in the 'Actions' column of the last row, with the text 'Use this button to delete the calculation' above it.

Calculation date	Emission source	Result	Calculation year	Actions
Jun 9, 2023	HFC 125	3496500.00 Kg CO2eq	2020	See more
Jun 9, 2023	HFC 125	346500.00 Kg CO2eq	2021	See more
Jun 21, 2023	Urea	5994.00 Kg CO2eq	2021	See more
Aug 1, 2023	Nitrogenados	3654.39 Kg CO2eq	2022	See more

Total in All Years : 3852648.39 Kg CO2eq



This field can be used to filter the calculations based on the year, if you don't know how the Carbon Footprint works visit [this section](#) to get more information.

WATER FOOTPRINTS MANAGEMENT

Here you can manage the water footprints of the farms related to the members of your organization.



My Organization

My Farms

❖ Farms Information

❖ Carbon Footprint

❖ Hydric Footprint



Water Footprints Management

Home > My Farms > Hydric Footprints

Farm Farm Test #3 - Felipe Castro

Year All Years

Request date	Product name	Details
Jun 7, 2023	Carrot	
Jun 20, 2023	Banana year 1	

WATER FOOTPRINTS MANAGEMENT

To get the footprints, you just need to select the farm and based on that it will display all the water footprints related to the farm selected, and you can filter them by year. Also, delete the calculation if it is no longer required.

Water Footprints Management

Home > My Farms > Hydric Footprints

The screenshot shows the 'Water Footprints Management' page. At the top, there are two dropdown menus: 'Farm' (circled in black) and 'Year' (set to 'All Years'). A large yellow arrow points down to the main content area. In the center, a table lists two calculations:

Request date	Product name	Details
Jun 7, 2023	Carrot	See more
Jun 20, 2023	Banana year 1	See more

A second yellow arrow points to the 'Year' dropdown at the bottom left of the table. To the right, a 'Review summary' section provides details for the first calculation:

Request date	Product	Hectares
Jun 7, 2023	Carrot	2222
Tons	Sow Date	Harvest Date
2222	May 31, 2023	Jun 7, 2023

Below this is a 'Carbon Footprint' section and a 'Water Footprint' section. The water footprint values are:

Total Water Footprint:	221 mm
Green Water Footprint:	199 mm
Blue Water Footprint:	22 mm

On the right, there is a QR code with a small icon in the center and a 'Print' button below it.

This field can be used to filter the calculations based on the year, if you don't know how the Water Footprint works visit [this section](#) to get more information.

At the moment of clicking in 'See more' you can view all the details of the calculation as shown in the image above

IRRIGATION MANAGEMENT

Here you can manage the watering needs of the farms related to the members of your organization.



My Organization

My Farms

❖ Farms Information

❖ Carbon Footprint

❖ Hydric Footprint

❖ Water Needs



Irrigation Management

Home > My Farms > Irrigation

Farm

Farm Test #3 - Felipe Castro

Wednesday, August 23rd, 2023

04:00 a.m.
Watering needs index: 1
Watering needs: Don't water

04:00 p.m.
Watering needs index: 1
Watering needs: Don't water

Thursday, August 24th, 2023

04:00 a.m.
Watering needs index: 1
Watering needs: Don't water

04:00 p.m.
Watering needs index: 2
Watering needs: Low

Friday, August 25th, 2023

04:00 a.m.
Watering needs index: 3
Watering needs: Low

04:00 p.m.
Watering needs index: 4
Watering needs: Low

Saturday, August 26th, 2023

04:00 a.m.
Watering needs index: 5
Watering needs: Moderate

04:00 p.m.
Watering needs index: 6
Watering needs: Moderate

Sunday, August 27th, 2023

04:00 a.m.
Watering needs index: 7
Watering needs: High

04:00 p.m.
Watering needs index: 7
Watering needs: High

Monday, August 28th, 2023

04:00 a.m.
Watering needs index: 8
Watering needs: High

04:00 p.m.
Watering needs index: 9
Watering needs: High

Tuesday, August 29th, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Wednesday, August 30th, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

IRRIGATION MANAGEMENT

You just need to select the farm and based on that it will display all the watering needs related to the farm selected, if you don't know how the watering needs works visits this [section](#).

The screenshot shows the 'Irrigation Management' section of a web application. At the top, there's a navigation bar with 'Home > My Farms > Irrigation'. Below it, a list of farms is shown, with 'Farm Test #3 - Felipe Castro' highlighted and circled in black. A large yellow arrow points downwards from this section to a detailed view of the irrigation schedule for Farm Test #3.

Irrigation Management

Home > My Farms > Irrigation

Farm

Farm Test #3 - Felipe Castro

Thursday, August 17th, 2023

04:00 a.m.
Watering needs index: 6
Watering needs: Moderate

04:00 p.m.
Watering needs index: 7
Watering needs: High

Friday, August 18th, 2023

04:00 a.m.
Watering needs index: 8
Watering needs: High

04:00 p.m.
Watering needs index: 9
Watering needs: High

Saturday, August 19th, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Sunday, August 20th, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Monday, August 21st, 2023

04:00 a.m.
Watering needs index: 9
Watering needs: High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Tuesday, August 22nd, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Wednesday, August 23rd, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

Thursday, August 24th, 2023

04:00 a.m.
Watering needs index: 10
Watering needs: Very High

04:00 p.m.
Watering needs index: 10
Watering needs: Very High

AGRONOMIC DATA MANAGEMENT

Here you can manage the agronomic data of the farms related to the members of your organization.



My Organization

My Farms

❖ Farms Information

❖ Carbon Footprint

❖ Hydric Footprint

❖ Water Needs

❖ Agronomic Data



Agronomic Data Management

Home > My Farms > Agronomic Data

Farm	Crop	Ripeness percentage	%	Soil depth	cm
------	------	---------------------	---	------------	----

Choose a Farm, Crop and Ripeness percentage to begin

AGRONOMIC DATA MANAGEMENT

You just need to select the farm, fill the other fields and it will display the information. If you need more information or help about how to fill the fields to get the agronomic data, visit this [section](#).

Agronomic Data Management

Home > My Farms > Agronomic Data



Crop

Ripeness percentage

Soil depth

cm

Choose a Farm, Crop and Ripeness percentage to begin

Farm

Farm Test #3 - Felipe Castro

Crop

Rice

Ripeness percentage

6

Soil depth

6

cm

Thursday, August 17, 2023

9 AM
Crop Evapotranspiration: 0.14 mm/hour
Soil humidity: 23.5%
Soil temperature: 11°C
Spraying temperature inversion: -0.14

10 AM
Crop Evapotranspiration: 0.13 mm/hour
Soil humidity: 24.1%
Soil temperature: 11°C
Spraying temperature inversion: -0.1

11 AM
Crop Evapotranspiration: 0.11 mm/hour
Soil humidity: 24.5%
Soil temperature: 11°C
Spraying temperature inversion: -0.05

12 PM
Crop Evapotranspiration: 0.08 mm/hour
Soil humidity: 24.9%
Soil temperature: 11°C
Spraying temperature inversion: -0.09

WARNING, DO NOT SPRAY



Friday, August 18, 2023

12 AM
Crop Evapotranspiration: -0.00 mm/hour
Soil humidity: 26.9%
Soil temperature: 10°C
Spraying temperature inversion: 0.26

WARNING, DO NOT SPRAY



1 AM
Crop Evapotranspiration: 0.00 mm/hour
Soil humidity: 26.9%
Soil temperature: 10°C
Spraying temperature inversion: 0.33

WARNING, DO NOT SPRAY



2 AM
Crop Evapotranspiration: 0.00 mm/hour
Soil humidity: 26.8%
Soil temperature: 9°C
Spraying temperature inversion: 0.37

WARNING, DO NOT SPRAY

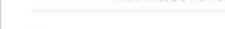


3 AM
Crop Evapotranspiration: 0.00 mm/hour
Soil humidity: 26.8%
Soil temperature: 9°C

Saturday, August 19, 2023

12 AM
Crop Evapotranspiration: 0.04 mm/hour
Soil humidity: 25.6%
Soil temperature: 8°C
Spraying temperature inversion: 1.14

WARNING, DO NOT SPRAY



1 AM
Crop Evapotranspiration: 0.04 mm/hour
Soil humidity: 25.6%
Soil temperature: 8°C
Spraying temperature inversion: 1.1

WARNING, DO NOT SPRAY



2 AM
Crop Evapotranspiration: 0.04 mm/hour
Soil humidity: 25.6%
Soil temperature: 7°C
Spraying temperature inversion: 0.97

WARNING, DO NOT SPRAY

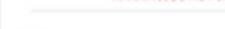


3 AM
Crop Evapotranspiration: 0.03 mm/hour
Soil humidity: 25.5%
Soil temperature: 7°C

Sunday, August 20, 2023

12 AM
Crop Evapotranspiration: 0.01 mm/hour
Soil humidity: 25.9%
Soil temperature: 7°C
Spraying temperature inversion: 0.68

WARNING, DO NOT SPRAY



1 AM
Crop Evapotranspiration: 0.00 mm/hour
Soil humidity: 25.9%
Soil temperature: 7°C
Spraying temperature inversion: 0.69

WARNING, DO NOT SPRAY



2 AM
Crop Evapotranspiration: 0.00 mm/hour
Soil humidity: 25.9%
Soil temperature: 7°C
Spraying temperature inversion: 0.52

WARNING, DO NOT SPRAY



3 AM
Crop Evapotranspiration: -0.00 mm/hour
Soil humidity: 25.9%
Soil temperature: 7°C

WARNING, DO NOT SPRAY



MEMBERS INFORMATION

In this section you can manage the members of your organization, search them by name, register new members, remove them from the organization and view details about their information.

The screenshot shows the 'Members Management' section of a web application. At the top, there's a header with the organization logo 'Cuatro Pinos' and the text 'Organization'. Below the header, there are several navigation links:

- My Organization** (with a house icon)
- My Farms** (with a farm icon)
- Farms Information**
- Carbon Footprint**
- Hydric Footprint**
- Water Needs**
- Agronomic Data**

Below these links is a green button labeled '+ Register Member'. To the right of the 'Register Member' button is a search bar with the placeholder text 'Search member by name'. A large yellow arrow points downwards from the 'Members Management' header towards the 'My Members' section below.

My Members

Home > Members Management > My Members

+ Register Member

Search member by name

Felipe Castro
Costa Rica

MEMBERS INFORMATION

In the image below you can view this section and the actions that can be performed indicated by a yellow arrow.

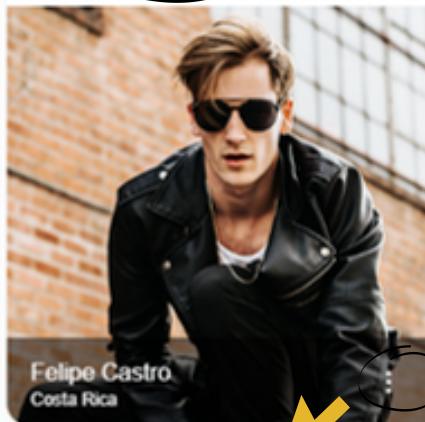
At the moment of clicking in this button it will display a form to register a member

My Members

Home > Members Management > My Members

+ Register Member

Q Search member by name



You can search in your members a person by name (including Last Name)

At the moment of clicking on the three points marked under the circle you will get two options, remove the member from your organization and view details, to get more information about the member.

Delete

View Details

MEMBERS INFORMATION

To register a member you just need to click on the green button with the label '*Register Member*' and fill the mandatory fields of the form displayed, after registering the member it will be part of your organization and the member can access YvY with the information that was used to be registered.

Register member in my organization

Name

Last Name

Description

Username Phone Number

Country

Email

Profile Picture Sin archivos seleccionados

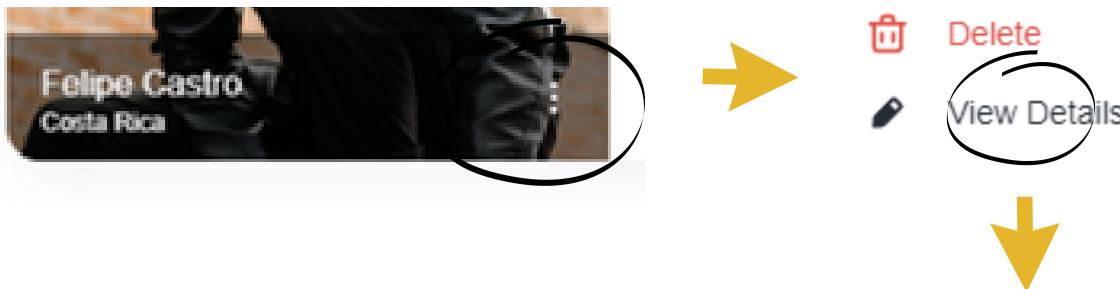
Password 

Registrar

All the fields are required

MEMBERS INFORMATION

To view more details or delete a member from your organization, you just need to click on the three points as shown below, then click on the option that you want to perform.



User Details

Name
Felipe Castro

Country
Costa Rica

Email
felipe-castro@ibm.com

Phone Number
86540394

Username
felipe-castro

Already logged into the System?
Yes, the terms and conditions have
been accepted

INVITES INFORMATION

Here you can invite members already registered in YvY and check the status of the invites that have been sent.

The screenshot shows the YvY platform interface. At the top, there is a header bar with the organization name "Cuatro Pinos" and a "Organization" label. Below the header, there are several navigation links: "My Organization" (with a house icon), "My Farms" (with a farm icon), "Farms Information" (with a gear icon), "Carbon Footprint" (with a gear icon), "Hydric Footprint" (with a gear icon), "Water Needs" (with a gear icon), "Agronomic Data" (with a gear icon), and "Members Management" (with a people icon). The "Members Management" link is highlighted with a green background. A large yellow arrow points downwards from the "Members Management" link to a detailed view of the "Invitations Management" page. On the "Invitations Management" page, there is a header with "Send Invite" button, a dropdown menu set to "All Invites", and a search bar. Below the header is a table with columns: State, User, Message, Date of Submission, and Actions. One row in the table is highlighted with a green border and shows the message: "The Organization Cuatro Pinos wants you to join our team. We value your potential and believe your participation would be of great importance in achieving our goals. Your talent and skills can make a difference in our work, and we are excited by the possibility of collaborating together. We will be attentive to the acceptance of our invitation!". The "Actions" column for this row contains a three-dot menu icon. A note at the bottom of the table states: "The actions are only available if the state is different to approved". At the bottom right of the table, there are pagination controls for "Rows per page" (5), "1-1 of 1", and arrows.

Cuatro Pinos
Organization

My Organization

My Farms

Farms Information

Carbon Footprint

Hydric Footprint

Water Needs

Agronomic Data

Members Management

Invites Information

Send Invite

All Invites

Search Invite by User

Pending

Eliecer Narvaez
eliecer.narvaez@ibm.com

The Organization Cuatro Pinos wants you to join our team. We value your potential and believe your participation would be of great importance in achieving our goals. Your talent and skills can make a difference in our work, and we are excited by the possibility of collaborating together. We will be attentive to the acceptance of our invitation!

Aug 9, 2023

Actions

The actions are only available if the state is different to approved

Rows per page: 5 1-1 of 1 < >

INVITES INFORMATION

In the below image you can see all the actions that can be performed.

Use this green button to send the invite



Invitations Management

The screenshot shows the 'Invitations Management' page. At the top, there is a green button labeled 'Send Invite' with a yellow arrow pointing up to it. To the right of the button is a search bar labeled 'Search Invite by User'. Below the header, there is a table with columns: State, User, Message, Date of Submission, and Actions. A pending invite for 'Eliecer Narvaez' is listed, with the message: 'The Organization Cuatro Pinos wants you to join our team. We value your potential and believe your participation would be of great importance in achieving our goals. Your talent and skills can make a difference in our work, and we are excited by the possibility of collaborating together. We will be attentive to the acceptance of our invitation!'. The date of submission is Aug 9, 2023. On the far right of the table, there is a three-dot menu icon with a yellow arrow pointing down to it. At the bottom of the table, it says 'The actions are only available if the state is different to approved'.

The value of the status can be:

- **Pending:** The invite was sent to the user but no answer yet.
- **Approved:** The invite has been accepted by the user.
- **Rejected:** The invites has been rejected by the user.

Rows per page: 5 ▾ 1-1 of 1 < >

Use this three points to open the actions and see the actions you can perform, if the invite is having 'Approved' as the State, you can no longer perform any actions.

The screenshot shows a dropdown menu for filtering invites by state. The option 'All Invites' is selected. To the right of the menu, a yellow arrow points to the text: 'You can filter the invites by the states available, by default all the invites are shown.'

INVITES INFORMATION

To send an invite you just need to click on the green button with the label '*Send Invite*' and fill the mandatory fields of the form displayed, the user must be registered in YvY in order to be invited, if the user is not part of YvY you can register the user and add it to your organization [here](#).

Invite Data

Send Invite

User's Email to Invite

Message of the Invitation

The Organization Cuatro Pinos wants you to join our team.
We value your potential and believe your participation would be of great importance in achieving our goals. Your talent and skills can make a difference in our work, and we are excited by the possibility of collaborating together.
We will be attentive to the acceptance of our invitation!

All the fields are required to send the invite, you can keep the default invite message

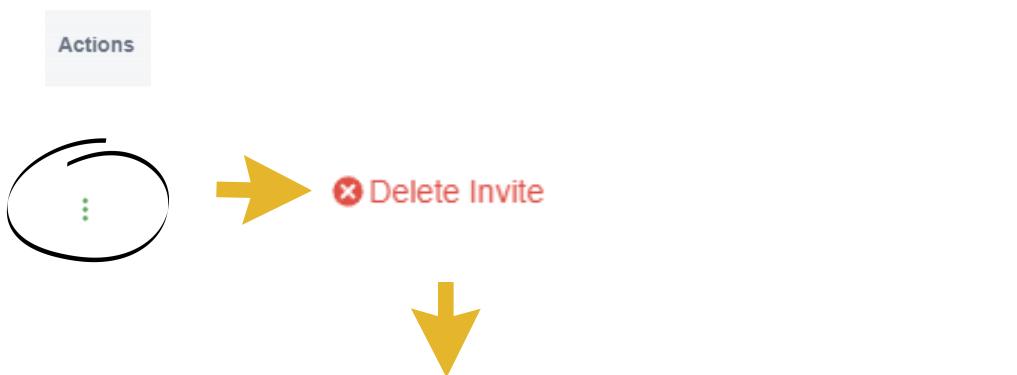
► Send

Remember

The email of the user to invite
must be from a user already
registered in YvY

INVITES INFORMATION

You can delete invites that have not been accepted or that have been rejected, once approved they cannot be removed from the record.



Confirm Deletion of Invite

Are you sure you want to delete your invite to let the user Eliecer Narvaez join the organization? Once eliminated, it can no longer be approved.



REQUESTS INFORMATION

Here you can approve or reject the requests from members to join your organization, also you can filter them by the status and search by the name of the user.

The screenshot shows a navigation menu on the left with the following items:

- My Organization
- My Farms
 - Farms Information
 - Carbon Footprint
 - Hydric Footprint
 - Water Needs
 - Agronomic Data
- Members Management
 - Members Information
 - Groups Information
 - Invites Information
 - Requests Information

A large yellow arrow points down to the "Requests Management" section at the bottom. This section displays a table of requests:

State	User	Message	Date of Submission	Actions
Pending	Luis Castro luisfelipecs97@gmail.com	I want to join your organization. I consider myself a valuable resource and believe that my participation would be of great importance in achieving its goals. My talent and skills can make a difference in the job, and I'm excited about the possibility of collaborating together. I will be attentive to the acceptance of my request!	Aug 17, 2023	⋮
Approved	Felipe Castro felipe-castro@ibm.com	Deseo unirme a su organización. Me considero un recurso valioso y creo que mi participación sería de gran importancia para alcanzar sus metas. Mi talento y habilidades pueden marcar la diferencia en el trabajo, y estoy emocionado por la posibilidad de colaborar juntos. ¡Estoy atento a la aceptación de mi solicitud!	Aug 1, 2023	⋮

At the bottom of the table, a note states: "The actions are only available if the state is different to approved".

REQUESTS INFORMATION

In the image below, you can see all the actions mentioned.

Requests Management

Home > Members Management > Requests

State	User	Message	Date of Submission	Actions
Pending	Luis Castro luisfelipe97@gmail.com	I want to join your organization. I consider myself a valuable resource and believe that my participation would be of great importance in achieving its goals. My talent and skills can make a difference in the job, and I'm excited about the possibility of collaborating together. I will be attentive to the acceptance of my request!	Aug 17, 2023	⋮
Approved	Felipe Castro felipe-castro@ibm.com	Deseo unirmé a su organización. Me considero un recurso valioso y creo que mi participación sería de gran importancia para alcanzar sus metas. Mi talento y habilidades pueden marcar la diferencia en el trabajo, y estoy emocionado por la posibilidad de colaborar juntos. ¡Estoy atento a la aceptación de mi solicitud!	Aug 1, 2023	⋮

The actions are only available if the state is different to approved

Rows per page: 5 ▾ 1-2 of 2 < >

The value of the status can be:

- **Pending:** Waiting for an answer.
- **Approved:** The request has been accepted by the organization.
- **Rejected:** The request has been rejected by the organization.

Use this three points to open the actions and see the actions you can perform, if the request is having 'Approved' as the State, you can no longer perform any actions.



REQUESTS INFORMATION

You can approve or reject requests by following the steps detailed in the images below.



GEOREFERENCING

In this section you can see a map with the locations of the farms associated to your organization marked in the map, you can filter them by country, search them by their name , get more information and remove them from the map as need it.

Cuatro Pinos
Organization

- My Organization
- My Farms
- Members Management
- Georeferencing

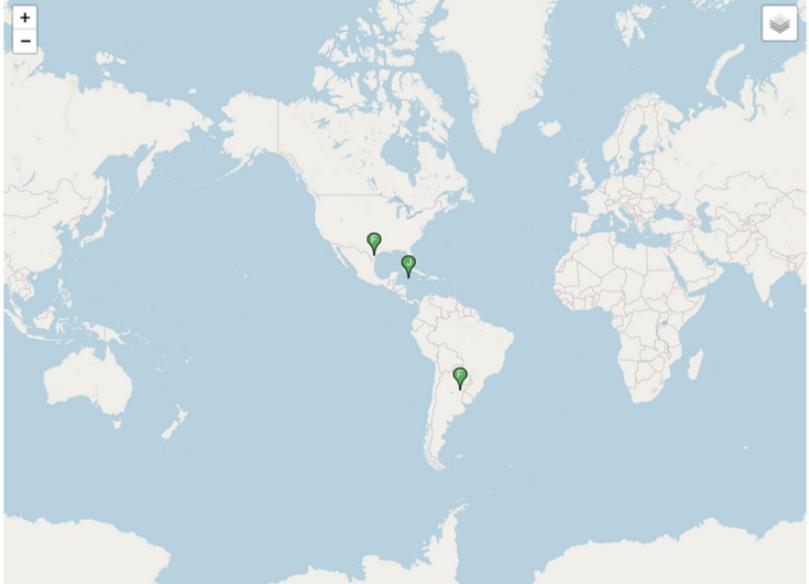


Georeferencing

Home > Georeferencing

In the map you can visualize all the farms associated with Cuatro Pinos:

[Open Guide](#) 



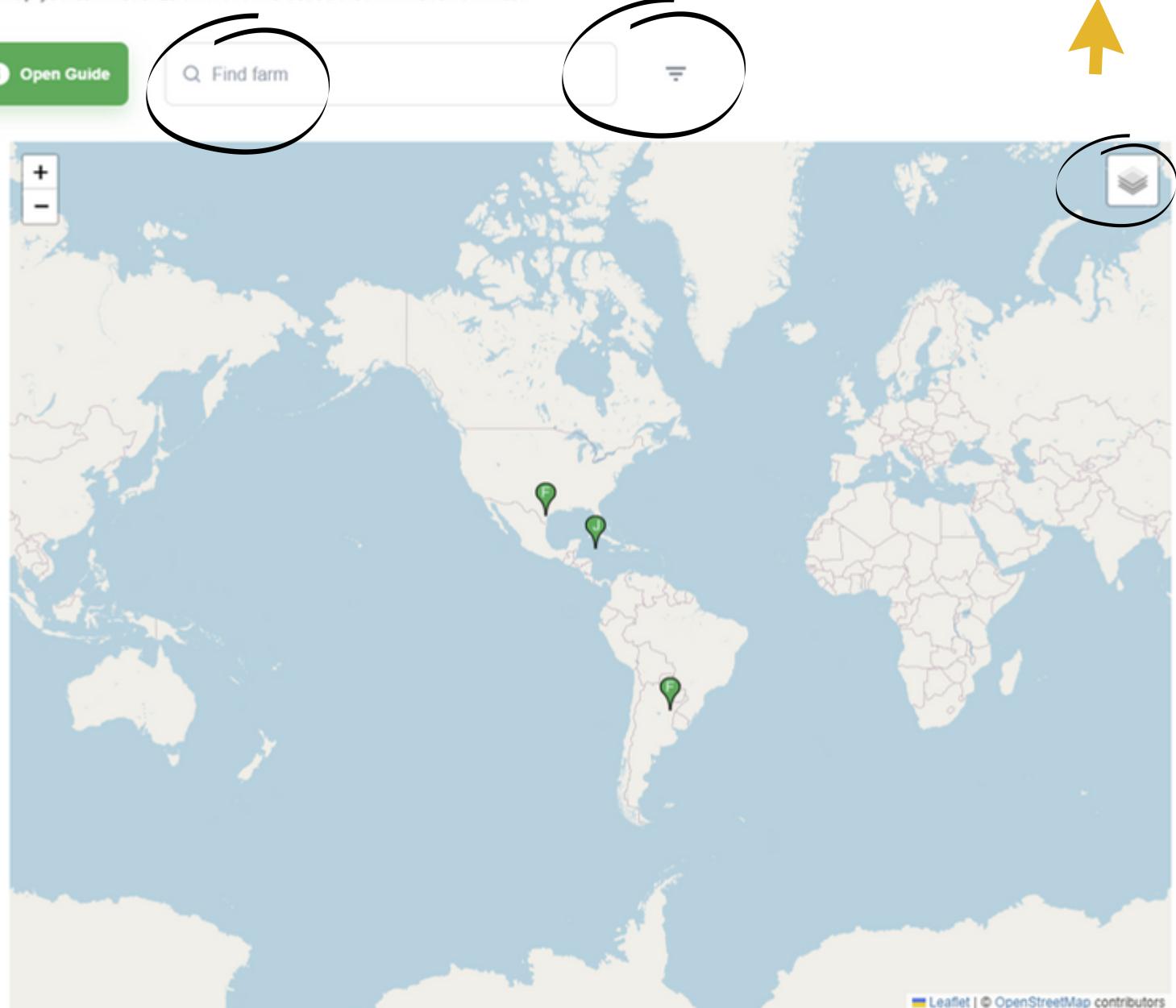
GEOREFERENCING

In the image below you can view some of the actions that can be performed.

Georeferencing

Home > Georeferencing

In the map you can visualize all the farms associated with Cuatro Pinos:



GEOREFERENCING

To get a guide about how to use the map you can click in 'Open Guide' as shown in the image below

Use Guide

Explanation about map use and search with icons:

Icon	Use
	Shows the location of the farm on the map, clicking on the icon will focus on the location and double-clicking will zoom out the location. Also, hovering the mouse over the icon will show detailed information about the farm.
	It is located in the upper right corner of the map, clicking on it shows the list of farms, where we can remove or add them as required on the map.
	It is located next to the search bar, which allows us to filter the farms by country.

As mentioned in the previous page, you can filter the farms based on the country and add/remove them as need it thanks to the box located in the upper right corner of the map.

Filter the farms based on the country

Bolivia
Argentina
Costa Rica
Ecuador
Colombia
Chile

Farm Test #2
 Farm Test #3
 Jarm Test #1

Add or remove the farms as required



Table of Contents



Open Handover
Documentation

Click on each element and you will be redirected to the page you want