

User Manual (English)

The following are the various modules and domains offered by ERP+ from Technocom, covering a wide range of businesses. You can be a small distributor, a manufacturer, running an educational institute, or a healthcare organization. There is something for everyone.

Connect

info@technocom.me +973 39 394939 www.erpplus.me www.technocom.me

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All Rights Reserved © 2019 Technocom Co. W.L.L. - Kingdom of Bahrain **Domain: Agriculture**

Domain: Agriculture

The Agriculture Domain of ERP+ comes with features to record crops and land, track plant, soil, water, weather analytics, and even track diseases and fertilizers. You can check out the following topics after this brief introduction to the agriculture module in ERP+.

1. Topics

1.1 Crops and Land

- 1. Introduction
- 2. Land Unit
- 3. Crop
- 4. Crop Cycle

1.2 Disease and Fertilizer

- 1. Disease
- 2. Fertilizer

1.3 Analytics

1. Analytics

Domain: Agriculture

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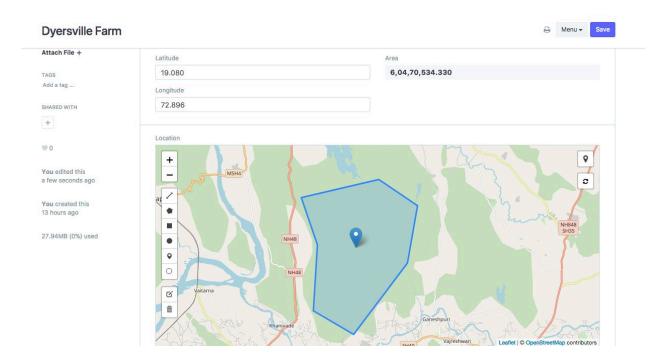
1. Analytics

1.1 Topic: Crops and Land

- 1. Introduction
- 2. Land Unit
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1. Introduction

Farmers know that even a small operation requires intensive record keeping. A well-run farm requires proper management of accounting, payroll, suppliers, customers and logistics to name a few areas. ERP+ already helps organize these activities.



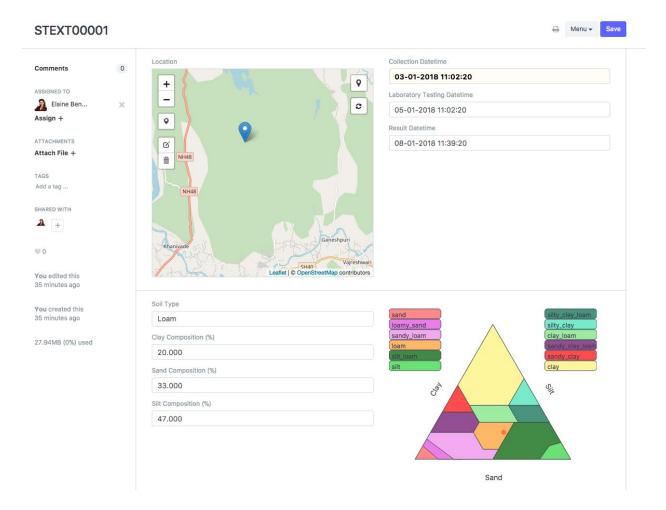
ERP+ Agriculture

The Agriculture module in ERP+ helps you keep track of your farming operations. It allows you keep records for each field where you farm, such as geospatial and soil texture characteristics. It allows you to:

- Manage the physical spaces where you plant your crops
- Manage your crops
- Record analysis data
- Plan activities related to your crops
- Record sale of the harvest or transfer to warehouse for further processing
- View reports

Capture Land Units and Manage Crops

A farm requires additional attention to manage its productive units (plots of land), time sensitive crop activities (such as planting, irrigating, fertilizing etc.), recording environmental and crop data for analysis, and reports to help make effective decisions.



Crops and Land

The core and most important elements of Agriculture module are:

- Land Unit: Representing the physical space where the crops are planted.
- Crop: Characteristics of the crop, inputs and expected outputs, expected calendar of activities and harvest, etc.
- Crop Cycle: Individual representation of a single planting in a specific area. (Links a crop to a Land Unit for a specified period).

Here we will learn to do a quick setup with the essential requirements to manage a simple example crop, Carrots.

These instructions assume you have already completed the basic ERP+ setup, and you have the ERP+ desk on your browser window.

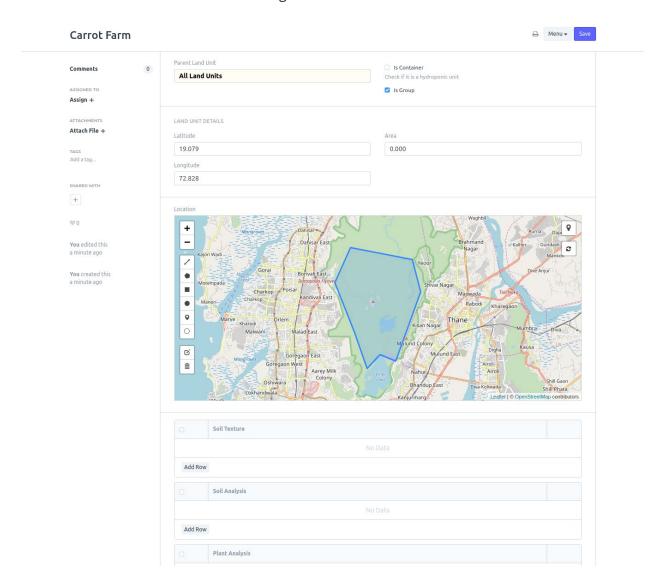
2. Land Unit

Before we do anything, we need to define some details about where our crops will be planted. We will first create our farm as a parent land unit, and then we will add one or more fields as children or nodes, belonging to the parent. Agriculture > Land Unit

On the desk, click on the Land Unit icon, a list will show any existing Land Units. On the top right, click on New to create the first Land Unit.

- Land Unit Name: Carrot Farm
- Parent Land Unit: All Land Units
- Check the box next to 'Is Group'
- Location: plot the area as you please

Click Save and it should look something like this



With the farm created, we can now create our first Carrot Field! Click on New:

- Land Unit Name: Carrot Field 1
- Parent Land Unit: select the one we just created in step two, i.e. Carrot Farm
- Leave the 'Is Group' box unchecked
- Location: plot the area as you please

Click Save and repeat step 3 for as many fields as you need

3. Crop

Now we need to specify what our crop will be. A crop summarizes all that is necessary before creating our first crop cycle or planting. Agriculture > Crop.

On the desk, click on the Crop icon. A list will show any existing Crops. On the top right, click on 'New' to create the first Crop. A new Crop document will open, and we will enter basic information. The basic information should be entered as such:

• Title: Carrot from carrot-top

• Crop Name: Carrot

• Scientific name: Daucus Carota

Type: BiennialPlanting UOM: UnitYield UOM: Grams

We will skip the Materials Required, Byproducts and Produce sections. In the Ideal Agriculture Task List, we enter some planned tasks such as planting, watering, and harvesting. (Please note, our activity list will be intentionally abbreviated for illustration purposes. For this example, we will prepare our field, plant the next day, water only once, add a cover after germination on day 12, remove weeds at day 19, and harvest at day 90.

The first row will look like this:

• Task Name: Preparation - Make rows

Start Day: 1End Day: 1

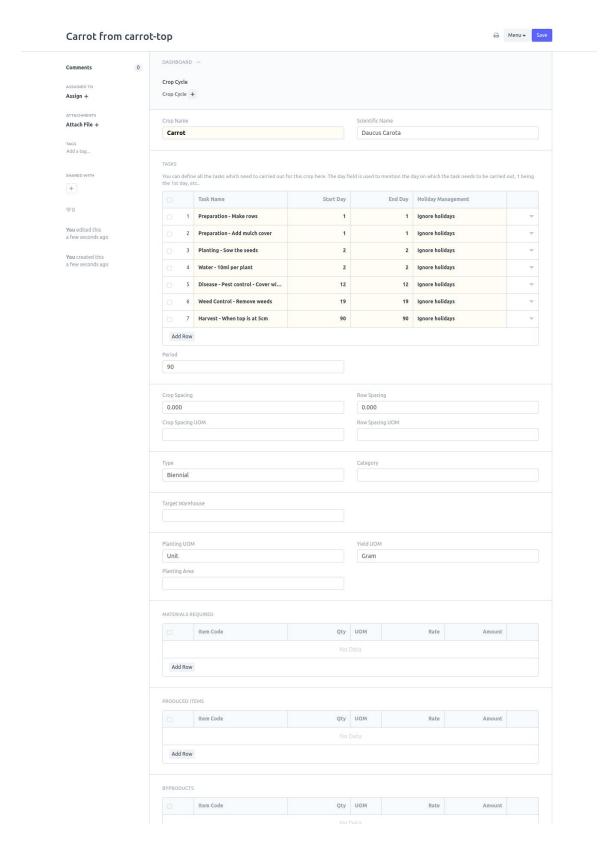
Holiday Management: Ignore holidays

When done, you can click 'Save' to prevent any work from being lost. We are not done yet, we simply have saved the minimum required information! Continue filling the next rows with Task Name, Start Day, End Day and Holiday Management.

- Row 2: Preparation Add mulch cover, 1, 1, Previous Business Day
- Row 3: Planting Sow the seeds, 2, 2, Previous Business Day
- Row 4: Water 10ml per plant, 2, 2, Ignore holidays
- Row 5: Disease Pest control Cover with Fine Net, 12, 12, Previous Business Day
- Row 6: Weed Control Remove weeds, 19, 19, Previous Business Day
- Row 7: Harvest When top is at 5cm, 90, 90, Previous Business Day

Click 'Save'

You form should now look something like this:



Repeat step 2 for as many crops as you need. You can save some time by duplicating existing crops and modifying only the necessary items

4. Crop Cycle

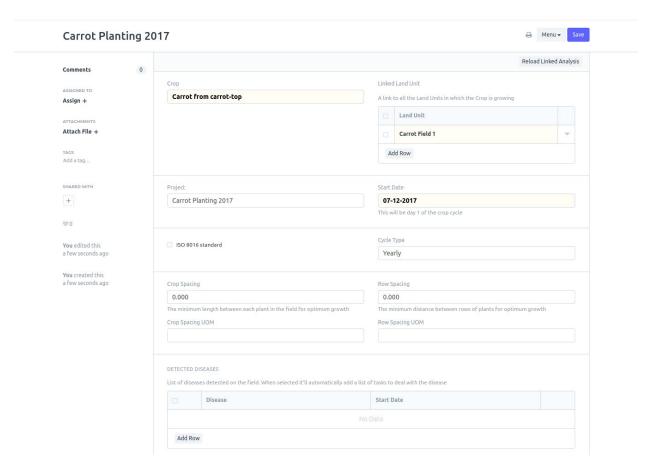
Once we have defined our crop, we can create as many crop cycles as we like, using the parameters outlined previously

On the desk, click on the Crop Cycle icon. A list will show any existing Crop Cycles. Agriculture > Crop Cycle

On the top right, click on New to create the first Crop Cycle. A new Crop Cycle document will open, and right away you see that two of the required items are a Land Unit and a Crop. We shall give it a descriptive name, to differentiate it from Crop Cycles we might create later.

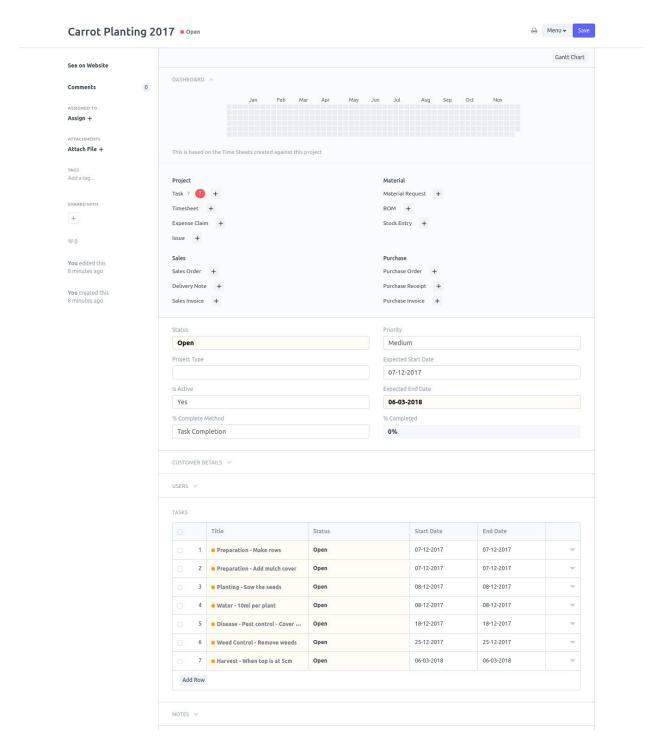
- Title: Carrot Planting 2017
- Land Unit: Add a row, and select, Carrot Field 1
- Crop: Carrot from carrot-top
- Start Date: Today
- Leave the ISO 8601 Standard (week count) box unchecked
- Skip the next four fields for Crop Spacing

Save the new Crop Cycle and it should now look something like this



Repeat these for every Crop Cycle you need

As you can see a Project was created, with the same name as the Crop Cycle and linked to the Crop Cycle. If you click on the project, you'll see all the 'Sample Tasks' from the linked Crop, i.e. 'Carrot from carrot-top' in this case, were converted into actual 'Tasks' and linked to the Project, for easy management: Projects > Project



1.2 Topic: Disease and Fertilizer

- 1. Disease
- 2. Fertilizer

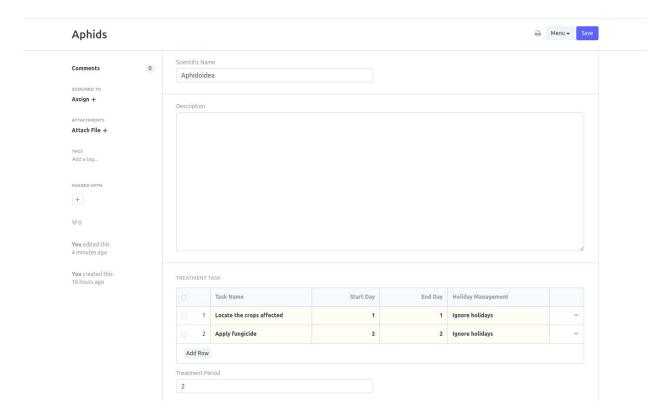
1. Disease

This part of Agriculture module deals with the management of Diseases, which may include various types of bacteria, fungi, viruses, or pests which affect he Crop

On the desk, click on the Disease icon. A list will show any existing Diseases. Agriculture > Disease. The basic information should be entered as such:

- Disease Name: Aphids
- · Scientific name: Aphidoidea
- Description: you could give a description of the disease here
- Treatment Task: This may contain a list of all the Tasks which need to be executed in order to get rid of the Disease

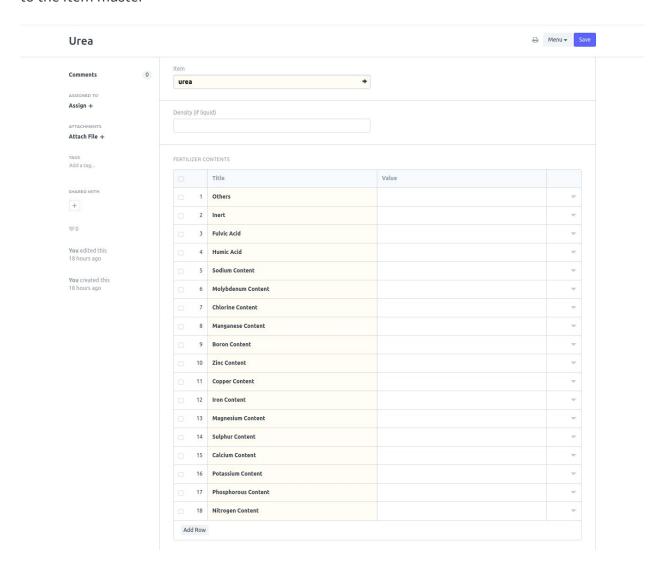
Once you fill the form, click Save and it should look something like this



These Tasks will be imported into the Crop Cycle Project if you choose to add this Disease to the list of Detected Disease in Crop Cycle

2. Fertilizer

This is used to keep track of available fertilizers, and their chemical composition, which is linked to the Item master



1.3 Topic: Analytics

1. Analytics

This part of the Agriculture module is used for tracking data and report generation

All the data pertaining to the following doctypes can be tracked by ERP+

- Plant Analysis
- Soil Analysis
- Water Analysis
- Soil Texture
- Weather
- Agriculture Analysis Criteria