SGPA3

Automated Process Management System
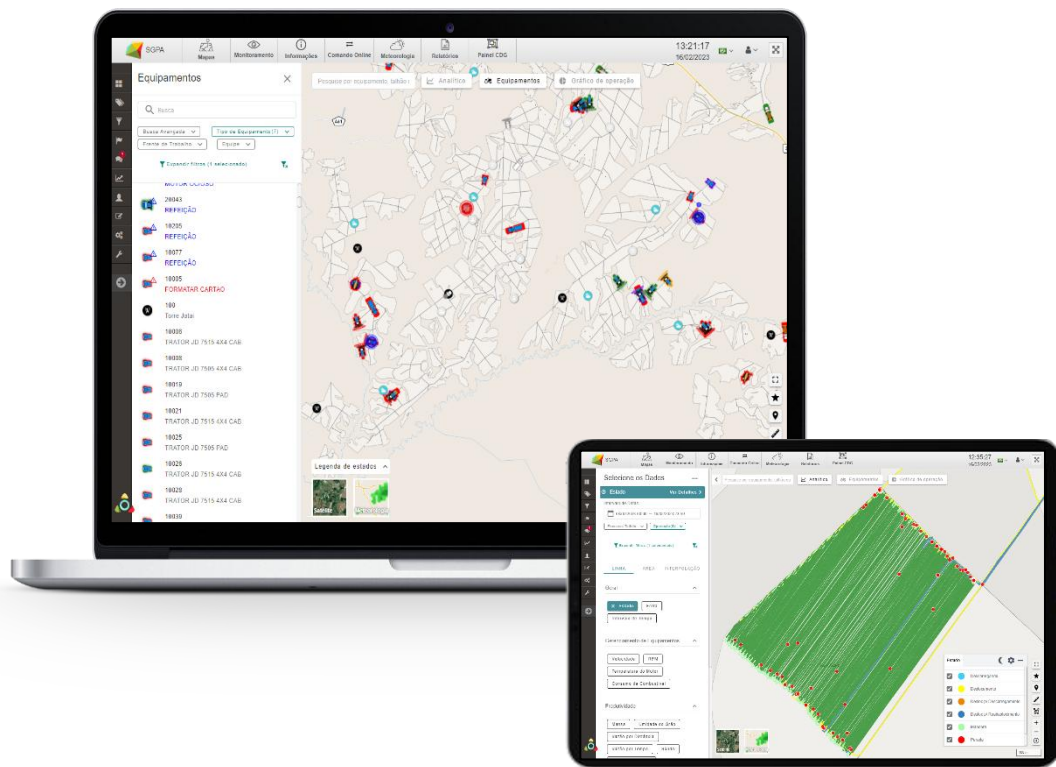
Some applications mentioned in this report may not be available in the feature pack in your SGPA 3.0

Thank you for being a SGPA 3.0 user!

We update our system in order to fix bugs, improve performance and add new features to bring a better user experience and contribute to a management with greater quality and efficiency.

Table of Contents

1. SGPA3

1.1 Improvements

1.1.1 Maps / Monitoring – Meteorology

In order to improve Meteorological Data Management, improvements were implemented in the "Meteorology" module of the Map and Monitoring. The updates are described below:

• **Break time:** Standardized for the Meteorology module to follow the productive day closing parameter (break time) of the SGPA3 meteorology. This parameter is also used in the "PBI Weather Reports" and determines the closing time of the daily data. Therefore, from this version on, the data from both sources remains the same, avoiding discrepancies due to time.

⚠ The Meteorology "break time" is configurable. If the customer does not have the current time as expected, they must request a change via IT Support.
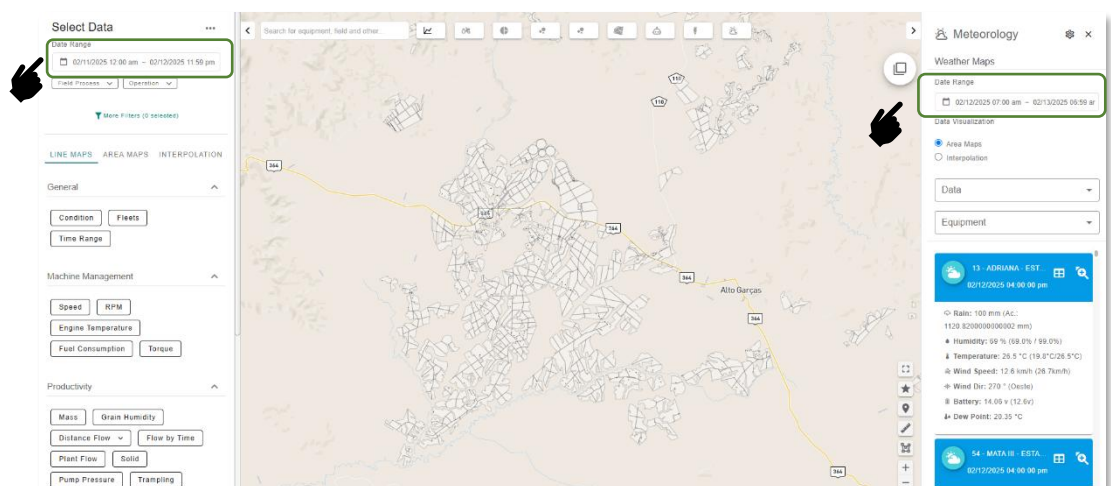

Image 01 – "Weather Maps" showing the productive day (break time) regardless of the "Analytical Map"

• **Layout changes – Weather Maps:**

⇨ Climate variables are located in the "Data" field;

⇨ The option to choose the "Display of Weather Information", such as the "Field Description", "Value" and "Equipment Type" were removed from the Legend and, from of this version, can be accessed through the gear icon ⚙ in the weather maps menu;

⇨ Option to minimize and maximize the weather maps menu.
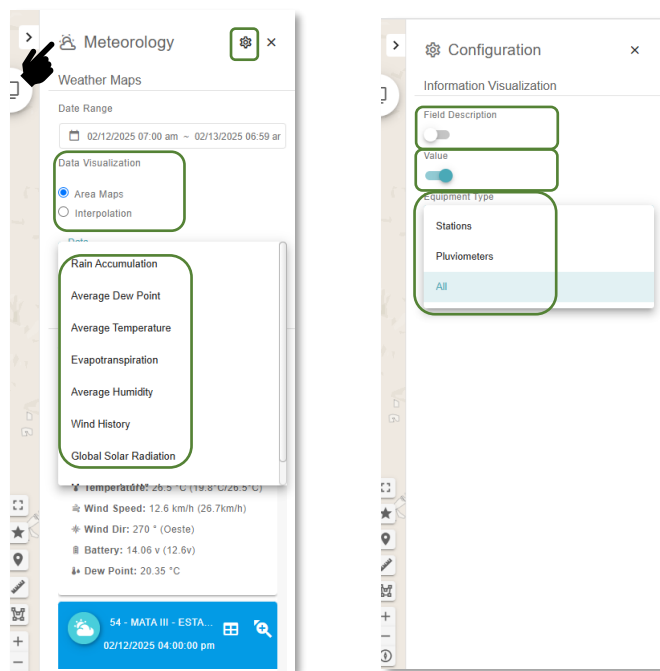
Images 02 e 03 – Change in the layout of the "Weather Maps" menu

- **Colors and scale of weather maps:** Changes have been made to the colors of "Weather Maps" in order to display them in lighter tones, thus making viewing more accessible to users with color perception difficulties.

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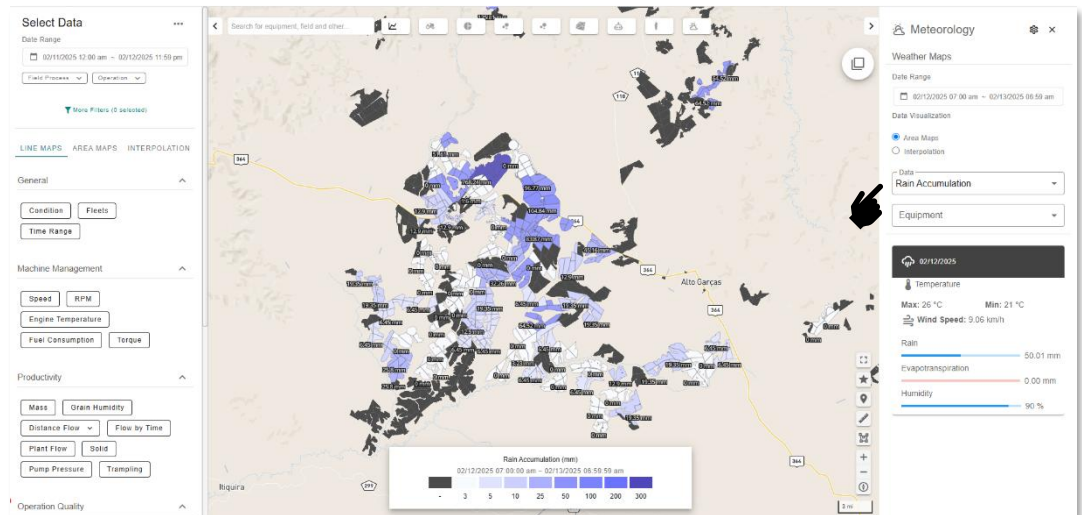Jardim Nova York - Araçatuba/SP

Image 04 – New color tones on the "Rainfall Accumulation" weather map

- **Zoom-related text adjustment:** The lock that removed text from the map when the zoom was greater than 1km was removed. In addition, the text was changed to have a fixed size, that is, if the user zooms in on the field, the text tends to grow proportionally to the area of the field. The text always remains within the area of the field that it represents and there is a treatment so that, if the text is overwritten with another text, only one of them will be available and the other will not be displayed.
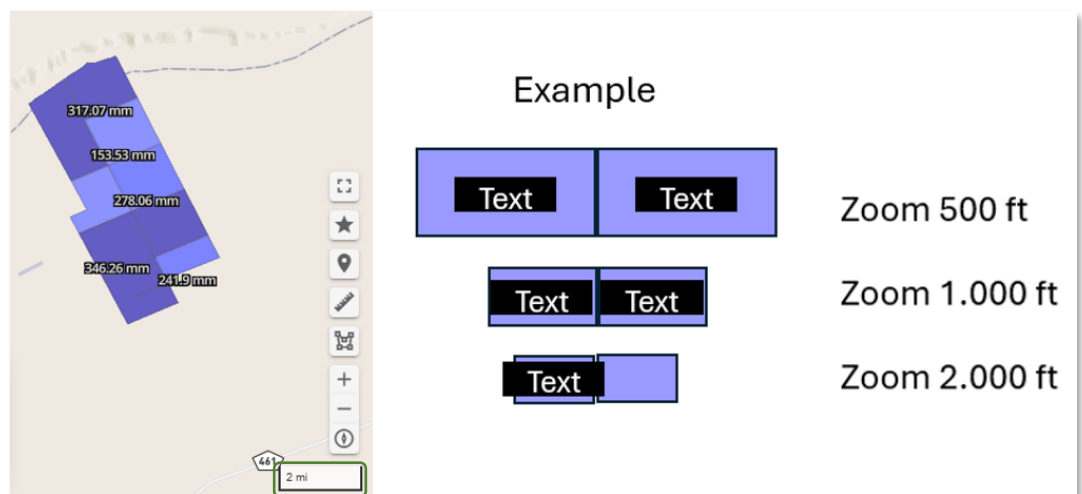

Image 05 – Example of text responsiveness to zoom

- **Radiation Map:** Added the "Global Radiation Map" weather map to complete the range of climate variables available to the client in map form.
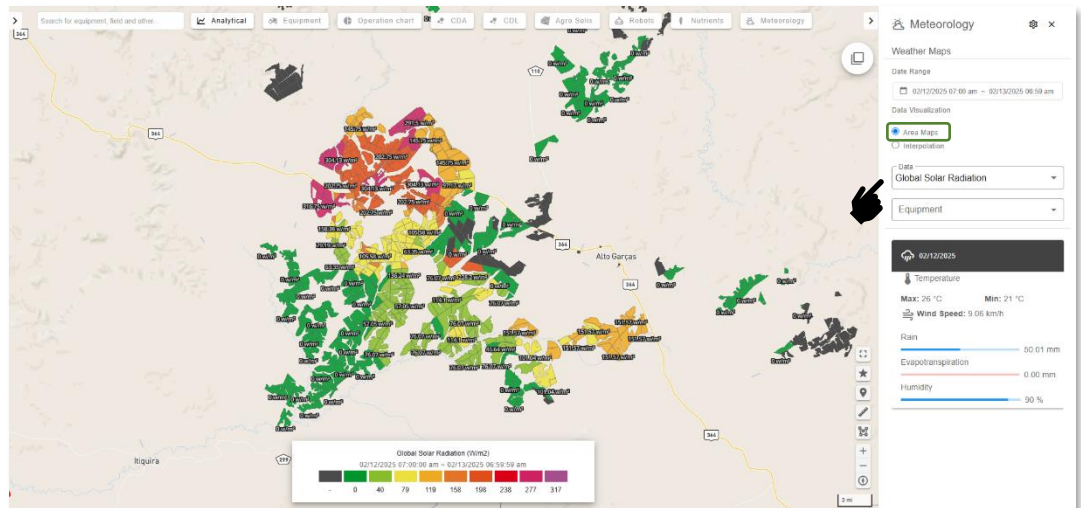

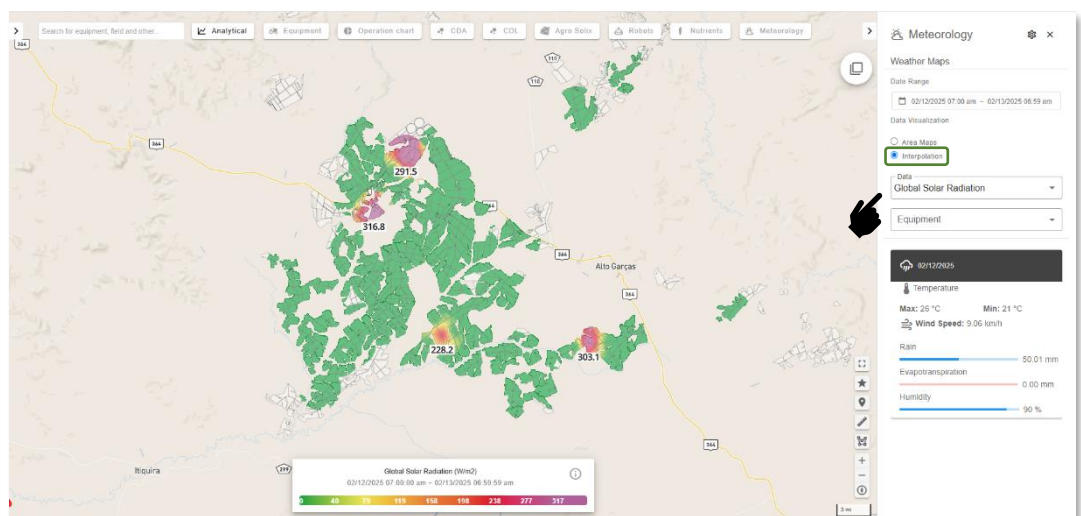Image 06 – New weather map "Global Radiation Map" in "Area" view

Image 07 – New weather map "Global Radiation Map" in "Interpolation" view

💬 Go to Top Menu > Maps and Monitoring > Meteorology > Weather Maps

ℹ️ Available for Environments that have the "Weather" solution active. Adjustments applied on 01/09/2025 and 02/04/2025.

1.1.2 Maps and Records – Multi-modules and Operation

Due to the increased use of equipment applying multiple inputs in the same operation, SGPA3 was updated to allow for the correct identification of each input applied. As for this version, it is possible to select the input directly in the system, without the need to reconfigure the on-board computer or change the firmware. Previously, the maps followed a fixed structure associated with specific inputs (for example, "Fertilizer", "Herbicide", "Insecticide/Nematicide 30%" and "Insecticide/Nematicide 70% | Sugarcane Distribution"), which generated inconsistencies between the name of the map and the actual input used. With this improvement, operational management becomes more precise and flexible, ensuring that the records in SGPA3 faithfully reflect the application performed.

To create a direct link between **input** and **operation**, the "Multi-module equipment?" field was implemented in the "Operation" register, in which, when activated, it will be possible to link the "Generic Fields" (map types) to the respective Inputs, that is, it will be possible to configure from 1 to 4 generic fields and 1 type of input per generic field.

Maps are displayed with the description "Generic 1", "Generic 2", "Generic 3" and "Generic 4" in the following cases:

⇨ when accessing the map and not selecting any operation;

⇨ when selecting an operation that does not have any input linked to it in the registry;

⇨ when more than one operation is selected.

When the Operation has the "Multi-module equipment?" option active, only the Generic fields that have some Input selected will be displayed on the map, that is, if one or more Generic fields are not filled in during registration, the 4 multi-module map options will not be displayed.

Image 08 – New field "Multi-module equipment?" in the Operation register for linking Generic Fields and Input types

⚠️ From this version on, it is necessary to update the registration of Operations that use Multi-Module Maps to view the application of Inputs.
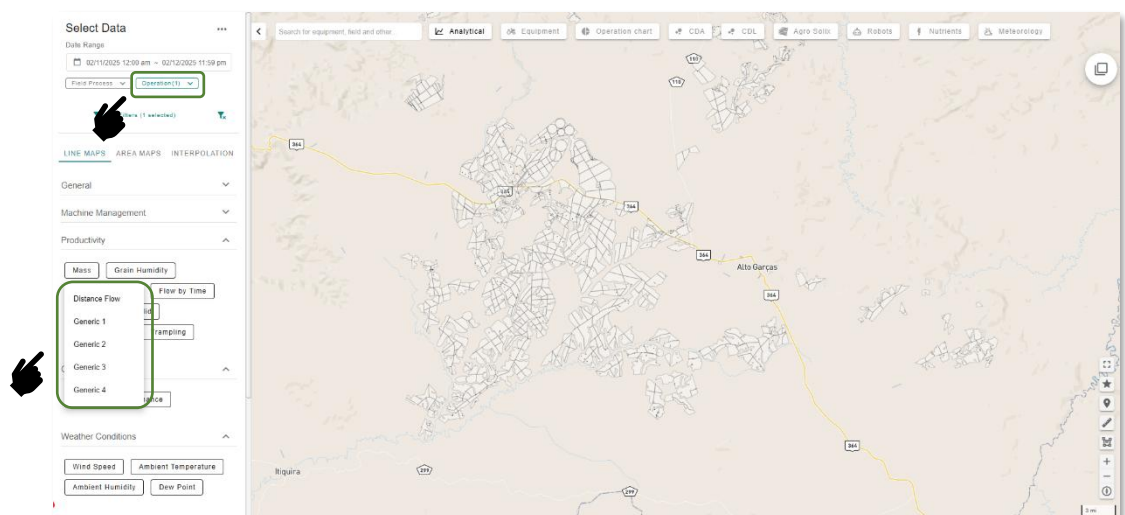

Image 09 – Multi-module maps displayed with the description "Generic" when no operation is selected
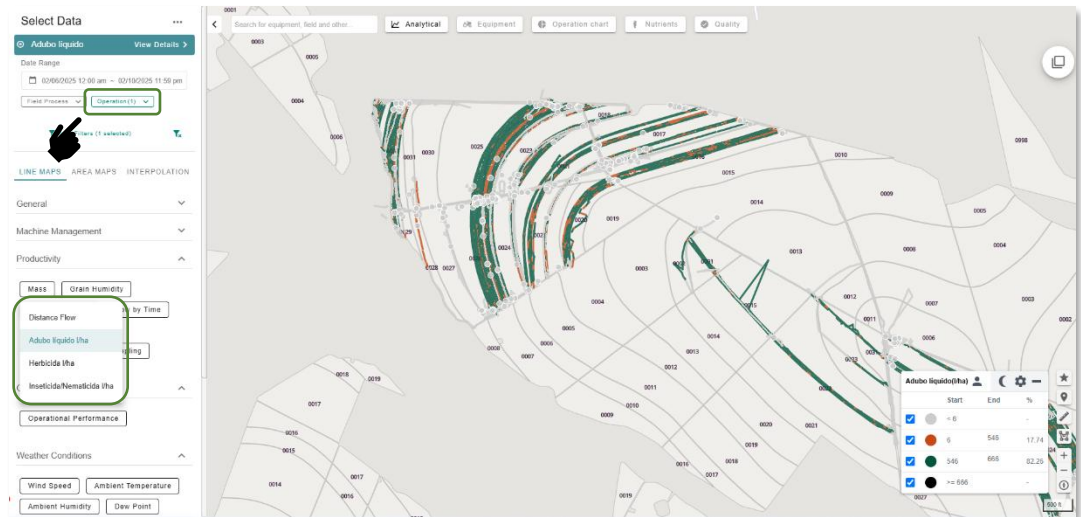
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Image 10 – Example of displaying only three Multi-Module Maps when the Select Operation is not configured with Inputs in the 4 "Generic" fields

⚠️ Each registered input already has its metric defined, but it can be changed in the legend as necessary, using the SGPA3 legend functionality.

💬 Go to Top menu > Maps > Line > Productivity > Flow > Flow by Distance menu > Generic 1, Generic 2, Generic 3 and Generic 4 and in Main menu > Records > Operation > Operation > New/Edit > Multi-module equipment? > Generic field > Select an input

ℹ️ Available for Environments that have the "Multi-modules" solution active.

1.1.3 PBI Reports – Climate x Operation

Improvement made to the PBI "Climate x Operation" Report, for the Sugarcane, Grains and Perennials verticals, to change the caption nomenclature. The previous pattern and the pattern of this new version are described below:

- From "Good" to "Favorable".

- From "Medium" to "Attention".

- From "Critical" to "Inappropriate".

Image 11 – "Pattern vs. Operation" report showing new pattern in legend

💬 Go to Main Menu > Reports > PBI > Climate > Climate x Operation

ⓘ Available for Environments that have the "Climate" solution active.

1.1.4 PBI Reports – Online Operational Variables

Improvement made to the PBI Report "Online Operational Variables", from the Sugarcane Vertical. Starting with this version, the report will have a "printed" version for each tab (except the Table tab). This new version will maintain the graphs and tables from the original tab, with the difference that it will now be easier to apply the FRONT filter before capturing the screen (print screen), aiming to facilitate the generation of physical or digital reports.
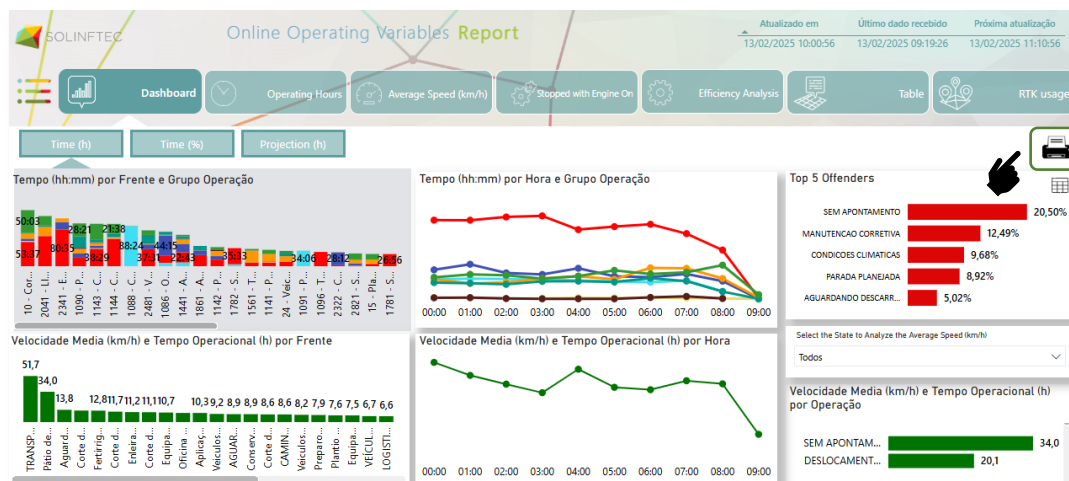
Image 12 – PBI Report "Online Operational Variables" displaying the icon to access the printed version

💬 Go to Main Menu > Reports > PBI > Online Reports > Online Operational Variables

ℹ️ Available for Sugarcane Vertical Environments.

1.1.5 PBI Reports – Operational Variables

Improvement made to the PBI "Operational Variables" Report, from the Sugarcane Vertical. Starting from this version, the graphs that used the Date hierarchical level in continuous format (February 11, 2025), were changed to the categorical format (02/11/2025).
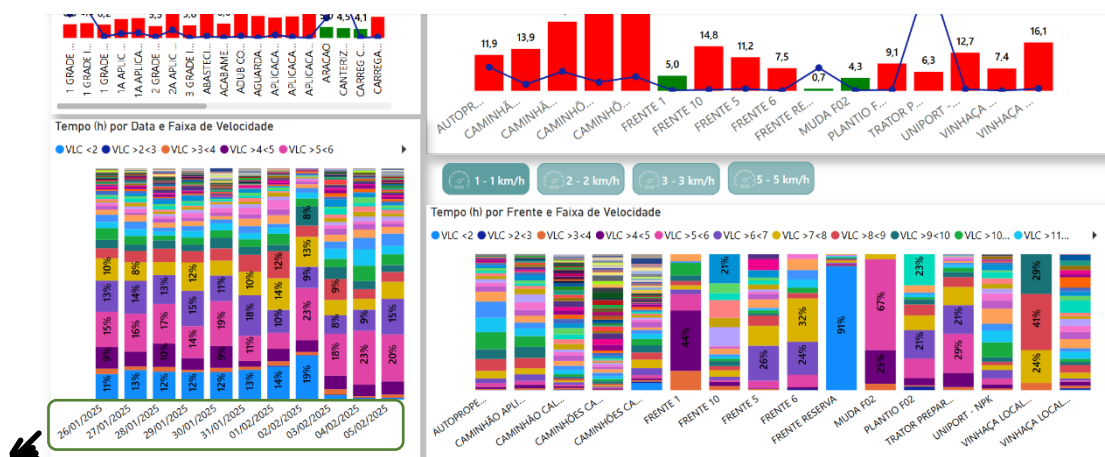
Image 13 – PBI "Operational Variables" report displaying date for categorical format

💬 Go to Main Menu > Reports > PBI > Operational Hours > Operational Variables Report

ℹ Available for Sugarcane Vertical Environments.

1.1.6 PBI Reports – Cutting, Loading and Transporting Cane

Improvements have been made to the PBI report "Cutting, Loading and Transporting Cane", from the Sugarcane Vertical. Starting with this version, the report will include, in the "Harvest Indicators" table (located at the end of the "CCT" tab), the Transshipment and Sugarcane Truck indicators. To access them, simply click on their respective icons above the table.

Additionally, changes were made to navigation, which will be described below:

1. **Previous functionality:** the table had an operator icon that, when clicked, changed the view to the operator's perspective.

2. **New functionality:** In this version, to switch between hierarchies, position the cursor over the table – navigation arrows will appear that allow you to explore the available levels.

⇨ **Available hierarchies:** Equipment Type, Corporate, Unit, Front (displayed by default when opening the report), Equipment Model, Equipment, Operator (new implementation) and Date.

⇨ **Instructions for use:** Click on the arrows to navigate between hierarchical levels.
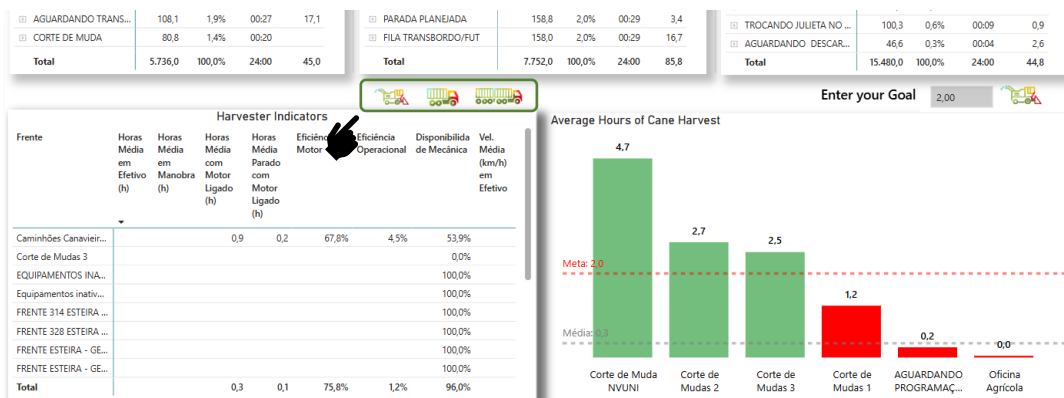
Image 14 – Icons for equipment types "Harvester", "Transshipment" and "Cane Truck" displayed together in the "Harvester Indicators" table
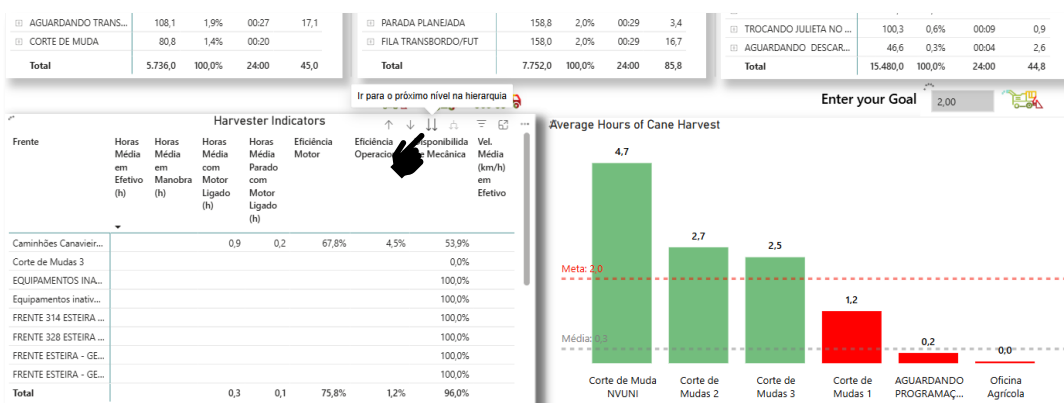

Image 15 – Displaying arrows that allow navigation between hierarchical levels in the "Harvester Indicators" table

💬 Go to Main Menu > Reports > PBI > Operational Hours > Cutting, Loading and Transporting Cane

ℹ️ Available for Sugarcane Vertical Environments.

1.1.7 PBI Reports – Alarms

Improvements have been made to the "Table" tab of the PBI "Alarms" report for the Sugarcane Vertical. Starting with this version, the "Alarm Duration (h)" column has been added, allowing data to be viewed and exported in decimal hours. Conversion to decimal hours considers fractions of an hour, such as 0.25h = 15min.

Image 16 – PBI "Alarms" report showing new column "Alarm Duration (h)" in "Table" tab

💬 Go to Main Menu > Reports > PBI > Online Command and Alarms > Alarms

ℹ️ Available for Sugarcane Vertical Environments.

1.1.8 PBI Reports – Harvest Planning

Improvement made to the PBI Report "Harvest Planning", from Grains Vertical. Starting with this version, the Farm level was added to the table on the "Harvest Planning" tab. As a result, the table has the following hierarchy:

1. Process | **2.** Farm (new level) | **3.** Zone Code | **4.** Field
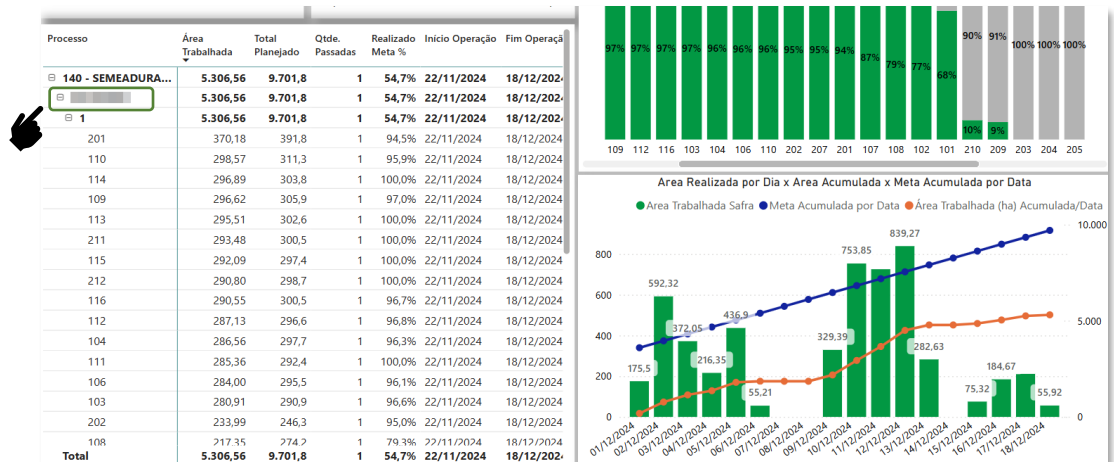
Image 17 – "Harvest Planning" report showing the new "Farm" hierarchy level in the table

💬 Go to Main Menu > Reports > PBI > Harvest Planning

ℹ️ Available for Grains Vertical Environments that have the PBI Report from the "Harvest Planning" extra package.

1.2 Bugs

1.2.1 Maps – Overlap Area

Adjustment made to the Analytical Map in order to correctly display the data on the "Overlay Area" map.

💬 Go to Top menu > Maps > Area > Overlay Area

1.2.2 Maps – Data Export

Adjustment made to the "Export Data" functionality of the Analytical Map in order to export data according to the time selected in the "Date Range" filter.

💬 Go to Top Menu > Maps > Date Range > Export Data

1.2.3 Meteorology – Fire Risk and Operation Analysis

Adjustment made to the "Fire Risk" and "Operation Analysis" maps to prevent slow data loading.

💬 Go to Top Menu > Maps and Monitoring > Meteorology > Fire Risk and Operation Analysis

ℹ️ Available for Environments that have the "Climate" solution active.

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1.2.4 Monitoring – Trail

Adjustment made to Monitoring to display data correctly whenever the Trail Timeline is updated to the next page.

💬 Go to Top menu > Monitoring > Equipment > Equipment Pop-up > Trail > Trail – Timeline

1.2.5 Online Command – Implement x Operation

Adjustment made in the "Online Command" module, in the "AR – Implement X Operation" command type, to allow filling in the Implement field with up to 10 digits.

💬 Go to Main menu > Modules > Online Command > Command Type > Implement X Operation

1.2.6 Online Command – Fleet Number

Adjustment made to the "Online Command" module, so the new value is not followed by blank spaces, when an online "Fleet Number" command is executed,

💬 Go to Main menu > Modules > Online Command > Command Type > Fleet Number

1.2.7 Records – Station/Rain Gauge Type

Adjustment made to the "Station / Rain Gauge Type" Registration, to display the data on the registration home screen according to what was configured in the "Filter" option, located in the upper right corner.

💬 Go to Main menu > Records > Equipment > Station / Rain Gauge Type > Filter

ⓘ Available for Environments that have the "Climate" solution active.

1.2.8 Records – Checklist

Adjustment made to the "Checklist" Registry so when adding or deleting Items in the Checklist, it does not cause crashes when sending the online command that updates the list of Checklist Items in the "TPL Application".

💬 Go to Main menu > Records > Equipment > Checklist > Edit > Items > Add New/Delete

ⓘ Available for Environments that have the "Checklist" solution active.

1.2.9 CDG Panel – Field Contingency

Adjustment made to the "CDG Panel", on the "Field Contingency" screen, so when clicking the "Save and Validate" button, it remains blocked while saving the changes. In addition, it was adjusted to correctly display the Date/Time in the "Correction/Validation Details" table.

💬 Go to Top Menu > CDG Panel > Field Contingency > Field Record in Contingency > Edit Record > Save and Validate and in Field Contingency > Field Record in Contingency > History > Record Validation in Contingency > Correction/Validation Details > DATE/TIME

ℹ️ Adjustments applied on 01/17/2025 and 01/22/2025.

1.2.10 Modules – Advanced Search

Adjustment made in the "Advanced Search" module, for the Equipment Type "40 – Light Tire Tractor", in order to display the data when filtering the "Hourmeter" type in the "Monitoring field".

💬 Go to Main menu > Modules > Advanced Search > Equipment Type > Light Tire Tractor > Filter > Advanced expression > Monitoring fields > Hour meter

1.2.11 Maintenance – Onboard Settings

Adjustment made on the "Onboard Settings" screen in order to display the complete list in the "Equipment Model" field, for the Equipment Types "40 – Light Tire Tractor", "44 - Cultural Treatments" and "58 – Mag100 Planter".

💬 Go to Main Menu > Maintenance > Solinftec Maintenance > Onboard Settings > Equipment Type > 40 – Light Tire Tractor, 44 - Cultural Treatments and 58 – Mag100 Planter > Equipment > Equipment Model

In case of doubt or further clarification, please contact us via email suporte@solinftec.com.br *or call +55 18 3622 2270.*