

# Economical analysis

[help.fractal.com/hc/change\\_language/en-us](https://help.fractal.com/hc/change_language/en-us)

In this module, it is possible to analyze the economic resources that have been executed or planned in maintenance management (such as inventories, services, and human resources) over a determined period, through the following submodules:

- Resources to Execute
- Executed Resources
- Cost Pivot Table

Business Intelligence Economical Analysis

Actual Resource Usage Cost Pivot Table Planned Resource Usage

Actual Schedule Date: 2025-04-23 / 2025-05-23

WO Creation date	Actual Schedule Date	Resource Creation Date...	WO Id	Percentage of Comp...	Task type
2024-05-22 10:11	2025-05-22 10:07	2024-05-22 10:11	OT-27-FER	100	PREDITIVA
2024-05-22 10:11	2025-05-22 10:07	2024-05-22 10:11	OT-27-FER	100	PREDITIVA
2025-02-21 09:21	2025-05-02 09:00	2025-02-21 16:45	OT-2366-FRA		MANTENIMIENTO P...
2025-02-12 19:30	2025-05-12 11:53	2025-02-12 19:31	OT-2323-FRA		MANTENIMIENTO P...
2025-02-11 09:42	2025-04-30 12:03	2025-02-20 10:47	OT-2317-FRA	100	MANTENIMIENTO P...
2024-11-29 08:42	2025-05-07 09:04	2024-11-29 08:43	OT-2079FRA		MONTAJE
2024-05-07 06:04	2025-05-06 15:27	2024-05-10 09:45	OT-153-FRIG		PREVENTIVO
2024-05-07 06:04	2025-05-06 15:27	2024-05-07 06:06	OT-153-FRIG		PREVENTIVO
2025-04-15 16:00	2025-05-14 07:45	2025-05-07 15:22	OT1034UFSM		VERIFICACIÓN
2025-05-22 11:12	2025-05-22 11:01	2025-05-22 11:53	OT1023MTO	100	CORRECTIVO
2025-05-21 11:17	2025-05-21 11:06	2025-05-21 12:10	OT1017MTO		00 Correctivo

Showing 50 of 77

## Resources to Execute:

Actual Resource Usage | Cost Pivot Table | **Planned Resource Usage**

Actual Schedule Date: 2024-05-23 / 2025-05-22

Qty | Inhouse Personnel | Day

Description	Unit	Week 21 - Thursday, May 23/2024				Week 22 - Monday, May 27/2024				Week 23 - Monday, May 30/2024					
		Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Sun 02	Mon 03	Tue 04	Wed 05
▼ Inhouse Personnel					1,00										
⊙ Administrativo	Hours														
⊙ Ajudante	Hours														
⊙ ALMACENISTA	Hours														
⊙ Analista de manutenção	Hours														
⊙ ASEO Y LIMPIEZA	Hours					1,00									

Showing 1 - 10 of many [load more ...](#)

This interface shows the resources projected to be used. These resources may be:

1. Human Resources: Refers to the use of human talent according to the specification of a profession or position. It is important to remember that these profiles are created from the configuration module, in the auxiliary catalogs section.

Actual Resource Usage | Cost Pivot Table | **Planned Resource Usage**

Actual Schedule Date: 2024-05-23 / 2025-05-22

Qty | Inhouse Personnel | Day

Description	Unit	Week 21 - Thursday, May 23/2024				Week 22 - Monday, May 27/2024				Week 23 - Monday, May 30/2024					
		Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Sun 02	Mon 03	Tue 04	Wed 05
▼ Inhouse Personnel					1,00										
⊙ Administrativo	Hours														
⊙ Ajudante	Hours														
⊙ ALMACENISTA	Hours														
⊙ Analista de manutenção	Hours														
⊙ ASEO Y LIMPIEZA	Hours					1,00									

Showing 1 - 10 of many [load more ...](#)

2. Inventory: Includes all spare parts, supplies, and tools projected to be used in performing preventive and corrective maintenance.

Actual Resource Usage | Cost Pivot Table | Planned Resource Usage

Actual Schedule Date: 2024-05-23 / 2025-05-22

Qty | **Inventory** | Day

Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Sun 02	Mon 03	Tue 04	Wed 05
2257 PAQ. 5 DISCO C/VELCRO 5 8HOYO { ALCOFER225569 }	PIEZA														
ABRAZADERA 1\ ( 1010 )	Un														
ABRAZADERA 13-22 (7/8) { 1016 }	Un														
ABRAZADERA BOGUE MB 400 RSE { 1018 }	Un														
ACEITE	Litro														
ACEITE { }	LITROS														
aceite 1	LITROS														

Showing 1 - 8 of many [load more ...](#)

3. Services: These are services provided by third parties. Specific information is added directly in the third-party module, within the corresponding profile. It must be specified in the services section.

Actual Resource Usage | Cost Pivot Table | Planned Resource Usage

Actual Schedule Date: 2024-05-23 / 2025-05-22

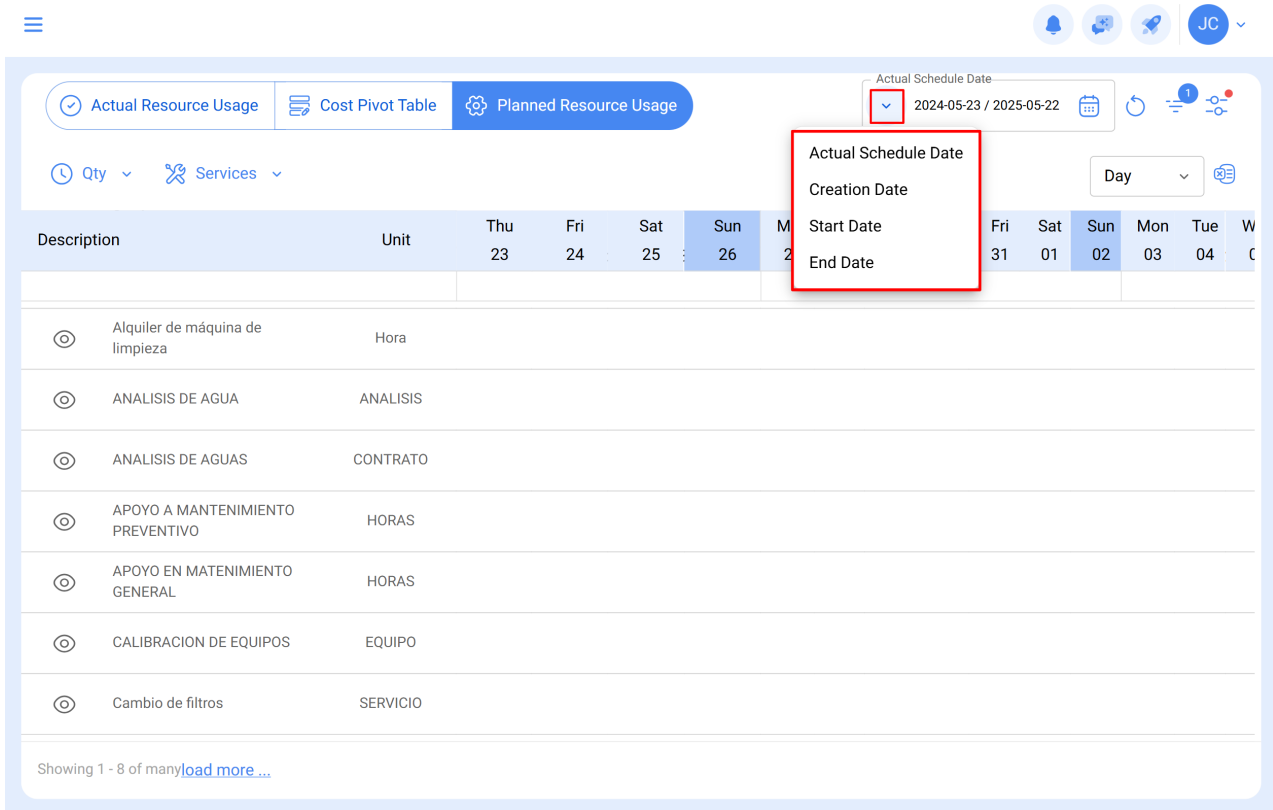
Qty | **Services** | Day

Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Sun 02	Mon 03	Tue 04	Wed 05
Alquiler de máquina de limpieza	Hora														
ANALISIS DE AGUA	ANALISIS														
ANALISIS DE AGUAS	CONTRATO														
APOYO A MANTENIMIENTO PREVENTIVO	HORAS														
APOYO EN MATENIMIENTO GENERAL	HORAS														
CALIBRACION DE EQUIPOS	EQUIPO														
Cambio de filtros	SERVICIO														

Showing 1 - 8 of many [load more ...](#)

## Filtering by:

This option is offered to users to obtain more precise information. There are three filter options:



The screenshot shows a software interface with a navigation bar at the top containing 'Actual Resource Usage', 'Cost Pivot Table', and 'Planned Resource Usage'. Below the navigation bar, there are filters for 'Qty' and 'Services'. A table is displayed with columns for 'Description', 'Unit', and dates from 'Thu 23' to 'Sun 26'. A dropdown menu is open, showing the following options: 'Actual Schedule Date', 'Creation Date', 'Start Date', and 'End Date'. The dropdown menu is highlighted with a red box.

Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27
Alquiler de máquina de limpieza	Hora					
ANALISIS DE AGUA	ANALISIS					
ANALISIS DE AGUAS	CONTRATO					
APOYO A MANTENIMIENTO PREVENTIVO	HORAS					
APOYO EN MATENIMIENTO GENERAL	HORAS					
CALIBRACION DE EQUIPOS	EQUIPO					
Cambio de filtros	SERVICIO					

- **Scheduled Date:** The date the preventive maintenance plan was created. When filtering by this option, only the scheduled maintenance date is considered.
- **Start Date:** The date the work order was assigned.
- **End Date:** The date the work order was completed.

## From - To:

This option allows retrieving information from the last month, the last 6 months, the last year, or setting a custom date range.

The screenshot shows a dashboard with three tabs: 'Actual Resource Usage', 'Cost Pivot Table', and 'Planned Resource Usage'. The 'Planned Resource Usage' tab is active. A date range '2024-05-23 / 2025-05-22' is selected. A dropdown menu is open, showing options: Today, Yesterday, Last Week, Last Month, Last year, Tomorrow, Next Week, Next Month, Next Year, and Date range. Below the menu is a table with columns for days of the week and rows for various services.

Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Tue 04	W
Alquiler de máquina de limpieza	Hora												
ANALISIS DE AGUA	ANALISIS												
ANALISIS DE AGUAS	CONTRATO												
APOYO A MANTENIMIENTO PREVENTIVO	HORAS												
APOYO EN MATENIMIENTO GENERAL	HORAS												
CALIBRACION DE EQUIPOS	EQUIPO												
Cambio de filtros	SERVICIO												

Showing 1 - 8 of many [load more...](#)

### Information Grouping:

The next filter groups the table data by day, week, or month.

The screenshot shows the same dashboard as above, but with a filter dropdown menu open. The menu options are: Day, Day, Week, and Month. The 'Day' option is selected.

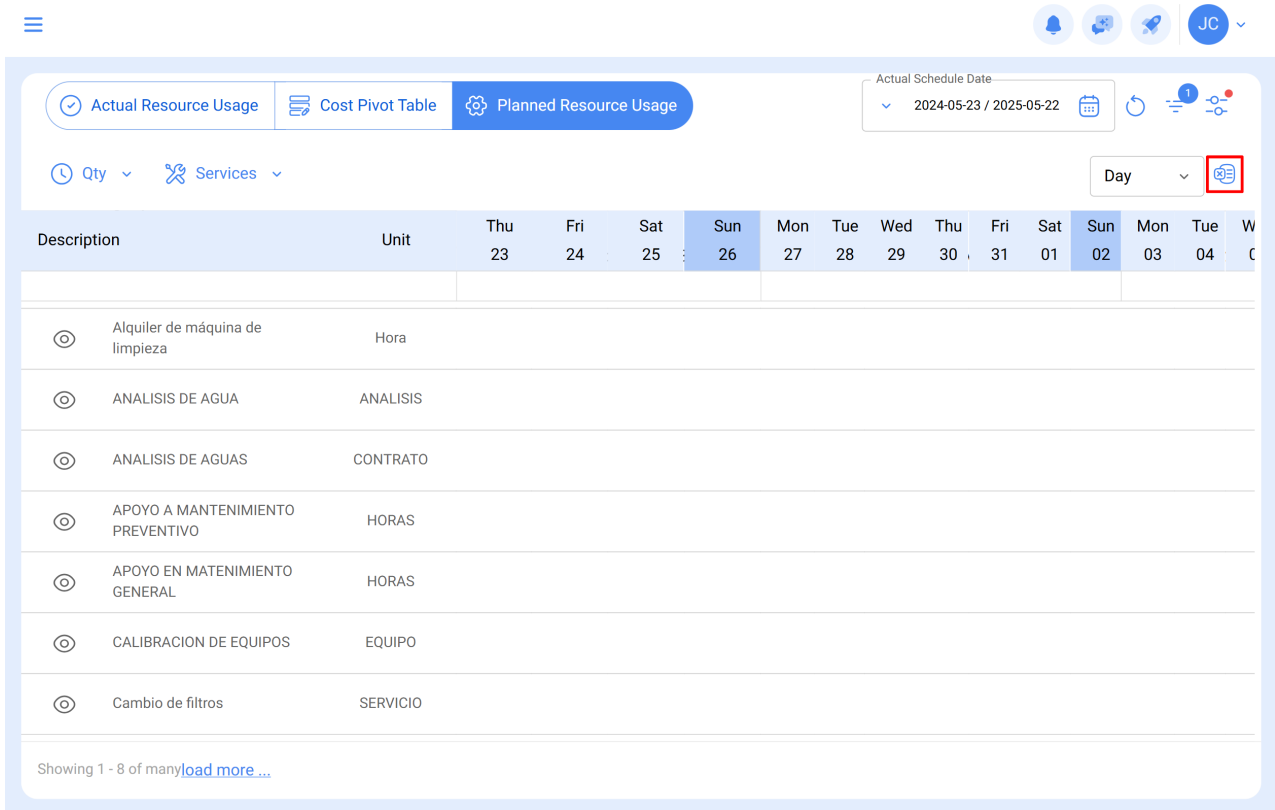
Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Tue 04	W
Alquiler de máquina de limpieza	Hora												
ANALISIS DE AGUA	ANALISIS												
ANALISIS DE AGUAS	CONTRATO												
APOYO A MANTENIMIENTO PREVENTIVO	HORAS												
APOYO EN MATENIMIENTO GENERAL	HORAS												
CALIBRACION DE EQUIPOS	EQUIPO												
Cambio de filtros	SERVICIO												

Showing 1 - 8 of many [load more...](#)

### Export:

Using this icon, you can export the information displayed in the interface to a flat Excel file.

Additionally, you can group the interface information by quantity or cost.



Actual Resource Usage | Cost Pivot Table | Planned Resource Usage

Actual Schedule Date: 2024-05-23 / 2025-05-22

Qty | Services

Description	Unit	Thu 23	Fri 24	Sat 25	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 01	Sun 02	Mon 03	Tue 04	W 05
Alquiler de máquina de limpieza	Hora														
ANALISIS DE AGUA	ANALISIS														
ANALISIS DE AGUAS	CONTRATO														
APOYO A MANTENIMIENTO PREVENTIVO	HORAS														
APOYO EN MATENIMIENTO GENERAL	HORAS														
CALIBRACION DE EQUIPOS	EQUIPO														
Cambio de filtros	SERVICIO														

Showing 1 - 8 of many [load more...](#)

### Executed Resources:

This interface shows information on the resources used within a work order, divided as follows:

### Iconography:

1. View WO Details: Redirects you to the work order where the resource was used.



2. View Asset Details: Redirects you to the asset intervened during the work order.



3. View Resource Details: Redirects you to the resource requested during the work order.



## Details:

Business Intelligence  
Economic Analysis

Search...

Actual Schedule Date  
2025-04-23 / 2025-05-23

Actual Resource Usage | Cost Pivot Table | Planned Resource Usage

WO Creation date	Actual Schedule Date	Resource Creation Date...	WO Id ↓	Percentage of Comp...	Task type
2024-05-22 10:11	2025-05-22 10:07	2024-05-22 10:11	OT-27-FER	100	PREDITIVA
2024-05-22 10:11	2025-05-22 10:07	2024-05-22 10:11	OT-27-FER	100	PREDITIVA
2025-02-21 09:21	2025-05-02 09:00	2025-02-21 16:45	OT-2366-FRA		MANTENIMIENTO P...
2025-02-12 19:30	2025-05-12 11:53	2025-02-12 19:31	OT-2323-FRA		MANTENIMIENTO P...
2025-02-11 09:42	2025-04-30 12:03	2025-02-20 10:47	OT-2317-FRA	100	MANTENIMIENTO P...
2024-11-29 08:42	2025-05-07 09:04	2024-11-29 08:43	OT-2079FRA		MONTAJE
2024-05-07 06:04	2025-05-06 15:27	2024-05-10 09:45	OT-153-FRIG		PREVENTIVO
2024-05-07 06:04	2025-05-06 15:27	2024-05-07 06:06	OT-153-FRIG		PREVENTIVO
2025-04-15 16:00	2025-05-14 07:45	2025-05-07 15:22	OT1034UFSM		VERIFICACIÓN
2025-05-22 11:12	2025-05-22 11:01	2025-05-22 11:53	OT1023MTO	100	CORRECTIVO
2025-05-21 11:17	2025-05-21 11:06	2025-05-21 12:10	OT1017MTO		00 Correctivo

Showing 50 of 77

- **WO Creation Date:** The date a person in charge and a consecutive number are assigned to a preventive or corrective task.
- **Scheduled Date:** The projected date for task execution.
- **Resource Assignment Date:** The date the resource is assigned within a work order.
- **WO ID:** The consecutive work order number.
- **Progress Percentage:** The work order's progress.
- **Task Type:** Specifies the type of task being executed, whether corrective, preventive, or according to the indication added when created.

	Percentage of Comp...	Task type	Status	Resource code	Resource Description	Resource Source	Resource Utilization
ER	100	PREDITIVA	Closed		Termografia	Soluciones Eléctricas SL	2024-05-22 10:11
ER	100	PREDITIVA	Closed	dsf4ds56f456	Eletricista	alberto ferreira	2024-05-22 10:11
-FRA		MANTENIMIENTO P...	Cancelled	DET-001	DETERGENTE { DET-001 }	ALMACEN GENERAL DE RE...	2025-02-21 16:45
-FRA		MANTENIMIENTO P...	Open WO's	TEC-022	Analista de manutenção	Alan Everton Ferreira da Silva	2025-02-12 19:31
-FRA	100	MANTENIMIENTO P...	Complete WO's		Especialista en Motores	JORGE TORO	2025-02-20 10:47
FRA		MONTAJE	Open WO's	DET-001	DETERGENTE { DET-001 }	ALMACEN DE NERDS KITCH...	2024-11-29 08:42
F-RIG		PREVENTIVO	Open WO's	Ton-M6x10	Tonillos M6x100	Abot Armazem	2024-05-10 09:45
F-RIG		PREVENTIVO	Open WO's		electricista	Alexander Fuentes	2024-05-07 06:06
UFSM		VERIFICACIÓN	Open WO's	CHU-BAS-01	CHUMACERA BASALTICA { ...	ALMACEN DE BASALTICA	2025-05-07 15:21
MTO	100	CORRECTIVO	Closed		NEUMATICO MINICARGADOR	External: SUPERMERCADO ...	2025-05-22 11:50
MTO		00 Correctivo	Open WO's		FILTRO AIRE INTERIOR MOT...	ALAMCEN SUCRUSAL 2	2025-05-21 12:10

Showing 50 of 77

- **Status:** Indicates the work order status (in process, under review, canceled, or completed).
- **Resource Description:** Describes the type of resource used.
- **Resource Source:** Indicates where the resource was taken from.
- **Resource Type:** Specifies if the resource is human, a service, or part of inventory.



Resource Utilization Date	Resource Type	Is cataloged	Qty	Real Used Qty	Issued Qty	Unit
2024-05-22 10:11	Services	Yes	1	1	1	SERVICIO
2024-05-22 10:11	Inhouse Personnel	Yes	1	1	1	Hour
2025-02-21 16:45	Inventory	Yes	10	5	5	LITROS
2025-02-12 19:31	Inhouse Personnel	Yes	1	1	1	Hour
2025-02-20 10:47	Inhouse Personnel	Yes	1	1	1	Hour
2024-11-29 08:42	Inventory	Yes	99			LITROS
2024-05-10 09:45	Inventory	Yes	35	35	35	Unidade
2024-05-07 06:06	Inhouse Personnel	Yes	3	3	3	Hour
2025-05-07 15:21	Inventory	Yes	2	2	2	UNID.
2025-05-22 11:50	Inventory	No	1	1	1	UNIDAD
2025-05-21 12:10	Inventory	Yes	1	1		

Showing 50 of 77

- **Cataloged:** Indicates if the resource is within the software inventory or not. "Cataloged" means it is in the software inventory; "Not cataloged" means it is not but was assigned to the work order with a name and cost.
- **Quantity:** The projected quantity to be delivered within the work order.
- **Actual Quantity Used:** The quantity used by the technician or person responsible.
- **Quantity Delivered:** The amount delivered to the work order responsible from the warehouse.

Real Used Qty	Issued Qty	Unit	Unit Cost	Total cost	Is part of	Asset	Asset code
1	1	SERVICIO	€ EUR 45,00	€ EUR 45,00	// Global Ruth/ Area de producción/ Utilidades/ Áre...	Chiller ( Global-Chiller-001 ) Xerox	Global-Chiller-001
1	1	Hour	€ EUR 10,00	€ EUR 10,00	// Global Ruth/ Area de producción/ Utilidades/ Áre...	Chiller ( Global-Chiller-001 ) Xerox	Global-Chiller-001
5	5	LITROS	€ EUR 2,50	€ EUR 12,50	// TESLA/	GT38 ACT	GT382
1	1	Hour	€ EUR 100,00	€ EUR 100,00	// FERRONOR/	{ GT38-2003 } LOCOMOTORA GT3 ACL	GT38-2003
1	1	Hour	€ EUR 0,00	€ EUR 0,00	// MOSQUEDA EMPRESA/ ROBUSPACK/	{ GT38-1 } LOCOMOTORA GT38	GT38-1
		LITROS	€ EUR 2.003,40	€ EUR 0,00	// CENTRO COMERCIAL EL TESORO/	AGREGADO 1 2009 2009 { AGR-030-001 } 2009	AGR-030-001
35	35	Unidade	€ EUR 300,00	€ EUR 10.500,00	// FERMOS/ HAL ALUMINIUM MÉXICO/	{ } unidad hidráulica 2	
3	3	Hour	€ EUR 25,00	€ EUR 75,00	// FERMOS/ HAL ALUMINIUM MÉXICO/	{ } unidad hidráulica 2	
2	2	UNID.	€ EUR 1.000,00	€ EUR 2.000,00	// Planes Fabian/ AREA TABLERO ELECTRICO/	CALDERA ( FR-FABIAN-0005 HUB )	FR-FABIAN-0005 HUB
1	1	UNIDAD	€ EUR 0,00	€ EUR 0,00	// TAMBO/	{ MC03.EJ.TAM } MINICARGADOR CAT	MC03.EJ.TAM
1			€ EUR 5.000,00	€ EUR 5.000,00	// HAYCO/	{ HOR-01 } HORNO 01	HOR-01
2	2		€ EUR 200.000,00	€ EUR 400.000,00	//	{ JAR-PIN } JARDIN PINOS	JAR-PIN
1.5	1.5	GALONES	€ EUR 16.000,00	€ EUR 24.000,00	//	{ JAR-PIN } JARDIN PINOS	JAR-PIN
		LITROS	€ EUR 25.073,55	€ EUR 0,00	//	{ JAR-PIN } JARDIN PINOS	JAR-PIN
4	4	Hour	€ EUR 15,00	€ EUR 60,00	// Cable Insalaciones/ Charge Guru/	{ CI-CG-PC } Parador de Caceres	CI-CG-PC
		PIEZA	€ EUR 0,00	€ EUR 0,00	// Cable Insalaciones/ Charge Guru/	{ CI-CG-PC } Parador de Caceres	CI-CG-PC
		LITROS	€ EUR 0,00	€ EUR 0,00	// Cable Insalaciones/ Charge Guru/	{ CI-CG-PC } Parador de Caceres	CI-CG-PC
		Unidad	€ EUR 0,00	€ EUR 0,00	// Cable Insalaciones/ Charge Guru/	{ CI-CG-PC } Parador de Caceres	CI-CG-PC
2	2	Hour	€ EUR 15,00	€ EUR 30,00	// Cable Insalaciones/ Charge Guru/	{ CI-CG-PM } Parador de mérida	CI-CG-PM

Showing 50 of 77

- Unit: The resource's unit of measurement.
- Unit Cost: The individual cost of each resource.
- Total Cost: The total cost, calculated by multiplying unit cost by actual quantity used.
- Located At or Part Of: The asset's location.
- Asset: The asset intervened in the work order.

### Cost Pivot Table:

This interface allows the user to create a pivot table with the following contents and groupings:

First, let's look at each available grouping type:

Actual Resource Usage **Cost Pivot Table** Planned Resource Usage

Table		Sum	Year		
Total cost			2024	2025	Totals
Asset Group 1	Asset				
Asset Group 2					
Asset Type					
Cost center					
Issued Qty					
Month					
Qty					
Real Used Qty					
Resource Description					
Resource Source					
Resource Type					
Task					
Task Group 1					

### Grouping 1:

Actual Resource Usage **Cost Pivot Table** Planned Resource Usage

Table		Sum	Year		
Total cost			2024	2025	Totals
Asset Group 1	Asset				
Asset Group 2					
Asset Type					
Cost center					
Issued Qty					
Month					
Qty					
Real Used Qty					
Resource Description					
Resource Source					
Resource Type					
Task					
Task Group 1					

- Table: A data structure organizing information into rows and columns, where each cell holds a unique value. Useful for displaying data in an orderly way.

- Table Heatmap: A visual representation where numerical table values are shown with colors; more intense colors correspond to higher values, lighter colors indicate lower values.
- Table Col Heatmap: Similar to the table heatmap but focuses on highlighting the columns.
- Table Row Heatmap: Focuses on highlighting rows, showing value distribution along rows.
- Exportable TSV: "Tab-separated values," allowing export of data in a text file where values are tab-separated.
- Grouped Column Chart: Similar to grouped bar charts but categories or variables are shown on the X axis as columns.
- Stacked Bar Chart: Bars stacked to show the total sum while comparing categories.
- Grouped Bar Chart: Bars grouped representing different categories or variables and their comparisons.
- Line Chart: Shows the relationship between two datasets via lines, representing trends or changes over time or variables.
- Dot Chart: Similar to line charts but with dots instead of lines, useful to visualize relationships or trends.
- Area Chart: Shows changes in a variable over time by filling areas under lines, helping visualize distribution or trends clearly.
- Scatter Chart: Displays individual points on a Cartesian plane, each point representing two variables, useful to identify relationships.
- Multiple Pie Chart: Shows several pie charts, each representing part of the whole, useful to compare compositions of different datasets.

## **Grouping 2:**

Actual Resource Usage | Cost Pivot Table | Planned Resource Usage

Actual Schedule Date: 2025-04-23 / 2025-05-23

Table: Sum

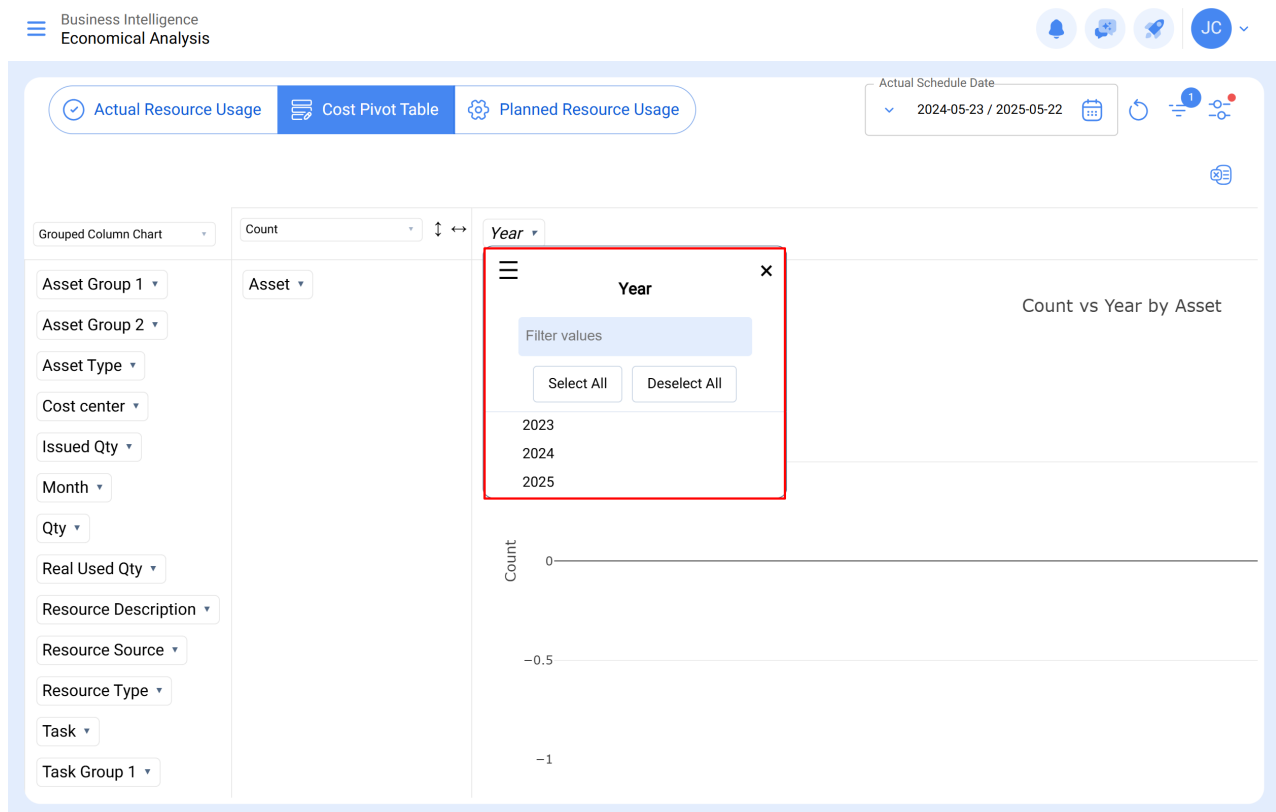
Asset Group 1 | Asset Group 2 | Asset Type | Cost center | Issued Qty | Month | Qty | Real Used Qty | Resource Description | Resource Source | Resource Type | Task | Task Group 1 | Task Group 2

Asset	Year	2024	2025	Totals
Clima Data Center { 001 }			12,000.00	12,000.00
Clima Data Center { 0022 }			50,800.00	50,800.00
EQUIPO 2 GLORY { EQ.GG-2 }			0.00	0.00
HORNO 01 { HOR-01 }			22.50	22.50
MINISPLIT1 { AA-MS-0001 }			0.00	0.00
UPS { UPS.0001 }			50,000.00	50,000.00
01 - C01 PARQUE DE FÚTBOL EL PLANTÍO (LA CAÑADA) { 01 - C01 }			39,900.00	39,900.00
02 - C02.1 PARQUE CARRER 30-PINADA (LA CAÑADA) { 02 - C02.1 }			0.83	0.83
AUTO 001			50,000.00	50,000.00
CENTRO COMERCIAL EL TESORO { CC-TER }			1,004,000.00	1,004,000.00
Chiller { Global-Chiller-001 } Xerox		55.00		55.00
EL CORRAL { ELCO-ELTE-01 }			4,500.00	4,500.00
GRUPO ELECTROGENO			50,000.00	50,000.00
MINISPLIT9			20,000.00	20,000.00
MOLINO 1 { MOL-01 }			142,500.00	142,500.00
MONTAJE 01			0.00	0.00

- Count: Counts the number of values in a column or dataset.
- Count Unique Values: Counts distinct values excluding duplicates.
- List Unique Values: Lists all unique values in a column or dataset.
- Sum: Calculates total sum of values.
- Integer Sum: Sum applied specifically to integers (whole numbers).
- Average: Calculates the mean.
- Median: Calculates the median (middle value when data is sorted).
- Sample Variance: Measures how values vary from the mean.
- Sample Standard Deviation: Measures the dispersion of sample data.
- Minimum: Finds the minimum value.
- Maximum: Finds the maximum value.
- First: Returns the first value.
- Last: Returns the last value.
- Sum Over Sum: Calculates the sum of values divided by the total sum.
- Sum as Fraction of Total: Calculates sum as fraction of the grand total.

- Sum as Fraction of Rows: Calculates sum as fraction of row totals.
- Sum as Fraction of Columns: Calculates sum as fraction of column totals.
- Count as Fraction of Total: Counts values as fraction of total.
- Count as Fraction of Rows: Counts values as fraction of row totals.
- Count as Fraction of Columns: Counts values as fraction of column totals.

### Grouping 3:



- Resource Type: Refers to the category of the resource used (labor, materials, equipment, etc.), useful for classifying and organizing resources in a project or activity.
- Resource Description: A brief description or name of the resource used, helpful to clearly identify each resource and its function.
- Resource Source: Indicates where the resource was obtained from (a specific supplier or internal source), useful for tracking acquisition.
- Quantity: Total quantity available or used in the activity or process.
- Quantity Delivered: Amount of resource delivered for use in the activity or project.
- Actual Quantity Used: Amount actually used during execution.
- Unit Cost: Cost per unit of measure.

- Total Cost: Total cost calculated by multiplying used quantity by unit cost.
- Unit: Unit of measure (hours, liters, units, etc.).
- Year and Month: The period during which the resource was or will be used, useful for temporal analysis and tracking.
- Asset: Catalog.
- Asset Classification 1 and 2: Additional categories for more detailed classification of resource condition or status.
- Asset Type: General category or type of the asset.
- Topic: General theme or category of the activity or project involving the resources.
- WO ID: Unique identifier of the work order or task associated with resource usage.
- Cost Center: Cost center to which the resource costs are assigned, facilitating cost tracking by area or department.
- Task Type: Category of the task associated with resource usage, useful for organizing and classifying related tasks.
- Task Classification 1 and 2: Additional categories for more specific classification of tasks related to resource usage.

### Cost Pivot Table Interface Layout:

The screenshot displays a Business Intelligence interface for 'Economic Analysis'. At the top, there are navigation tabs for 'Actual Resource Usage', 'Cost Pivot Table' (which is selected), and 'Planned Resource Usage'. A date range selector shows '2024-05-23 / 2025-05-22'. The interface is divided into three main sections:

- Section 1 (Filters):** A vertical list of filter controls including 'Table', 'Asset Group 1', 'Asset Group 2', 'Asset Type', 'Cost center', 'Issued Qty', 'Month', 'Qty', 'Real Used Qty', 'Resource Description', 'Resource Source', 'Resource Type', 'Task', and 'Task Group 1'.
- Section 2 (Table):** A table header with 'Count' and a sort icon, and a single filter control for 'Asset'.
- Section 3 (Pivot Table):** A pivot table header with 'Year' and a dropdown arrow. The table structure is as follows:
 

	Year	Totals
Asset		
Totals		0

The cost pivot table section is structured in three vertical spaces. The first contains all available options to extract information. Each option represents a type of data or category to be analyzed.

The screenshot shows the 'Cost Pivot Table' section of a Business Intelligence tool. On the left, a list of filter options is displayed, including Asset Group 1, Asset Group 2, Asset Type, Cost center, Issued Qty, Month, Qty, Real Used Qty, Resource Description, Resource Source, Resource Type, Task, and Task Group 1. A red box highlights this list, and a red arrow points to the right towards the pivot table area. The pivot table structure shows a 'Table' dropdown, a 'Count' dropdown, and a 'Year' dropdown. The main table area contains a pivot table with 'Asset' as the row label and 'Year' as the column label. The 'Year' column has a 'Totals' sub-column, and the 'Asset' row has a 'Totals' sub-row. The value in the 'Totals' cell is 0.

The second and third spaces are destination areas where selected options from the first space can be dragged and dropped. Placing an option in one of these spaces initiates a process of extracting specific data related to the chosen option.

The screenshot shows the 'Cost Pivot Table' section of a Business Intelligence tool. On the left, a list of filter options is displayed, including Real Used Qty, Resource Description, Resource Source, Resource Type, Task, and Task Group 1. A red box highlights this list, and a red arrow points to the right towards the pivot table area. The pivot table structure shows a 'Table' dropdown, a 'Sum' dropdown, and a 'Year' dropdown. The main table area contains a pivot table with 'Asset' as the row label and 'Year' as the column label. The 'Year' column has '2024', '2025', and 'Totals' sub-columns. The 'Asset' row has a 'Totals' sub-row. The values in the table are as follows:

Asset	2024	2025	Totals
Clima Data Center { 001 }		12,000.00	12,000.00
Clima Data Center { 0022 }		50,800.00	50,800.00
EQUIPO 2 GLORY { EQ.GG-2 }		0.00	0.00
HORNO 01 { HOR-01 }		22.50	22.50
MINISPLIT1 { AA-MS-0001 }		0.00	0.00
UPS { UPS.0001 }		50,000.00	50,000.00
01 - C01 PARQUE DE FÚTBOL EL PLANTÍO (LA CAÑADA) { 01 - C01 }		39,900.00	39,900.00
02 - C02.1 PARQUE CARRER 30-PINADA (LA CAÑADA) { 02 - C02.1 }		0.83	0.83
AUTO 001		50,000.00	50,000.00
CENTRO COMERCIAL EL TESORO { CC-TER }		1,004,000.00	1,004,000.00
Chiller { Global-Chiller-001 } Xerox	55.00		55.00
EL CORRAL { ELCO-ELTE-01 }		4,500.00	4,500.00
GRUPO ELECTROGENO		50,000.00	50,000.00
MINISPLIT9		20,000.00	20,000.00
MOLINO 1 { MOL-01 }		142,500.00	142,500.00
MONTAJE 01		0.00	0.00



It is important to understand that information obtained in the second space can be cross-referenced or combined with information in the third space for a more complete analysis. For example, selecting "assets" in the second space allows cross-referencing this data with time variables like year in the third space, yielding a detailed analysis of asset performance over time.

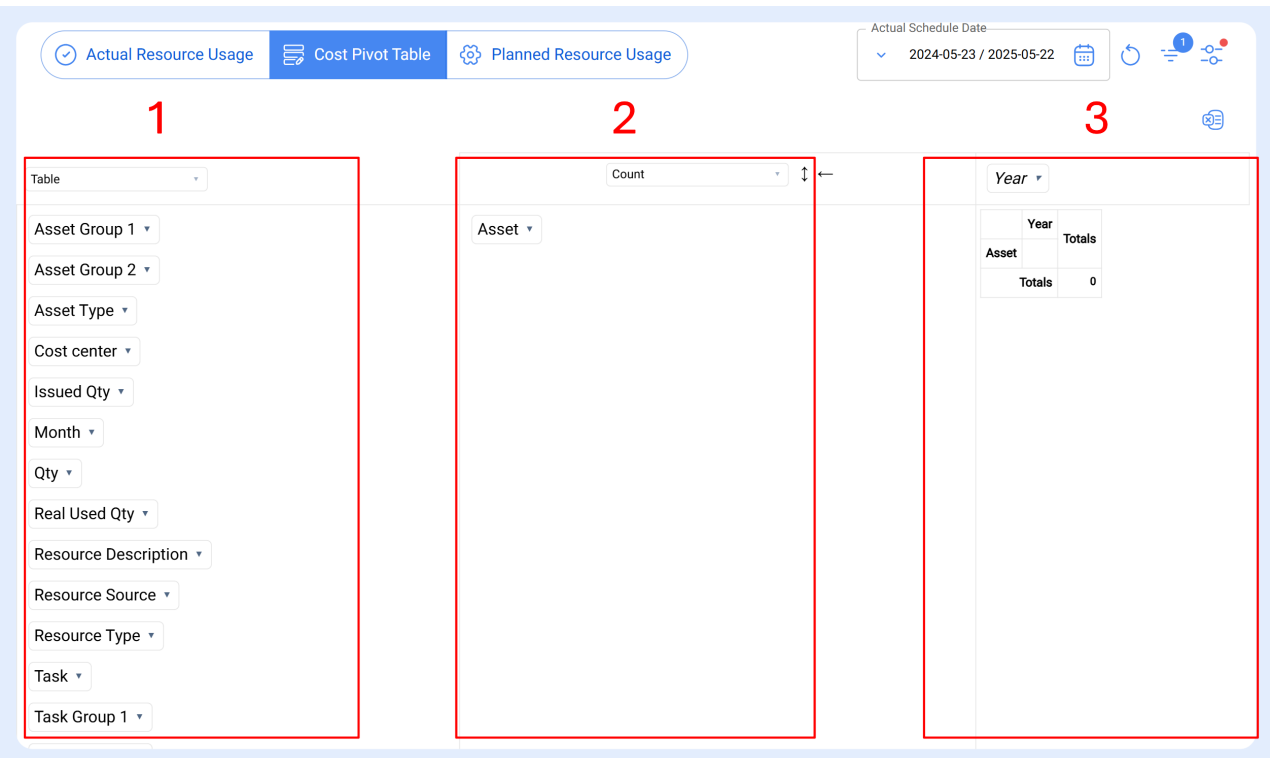
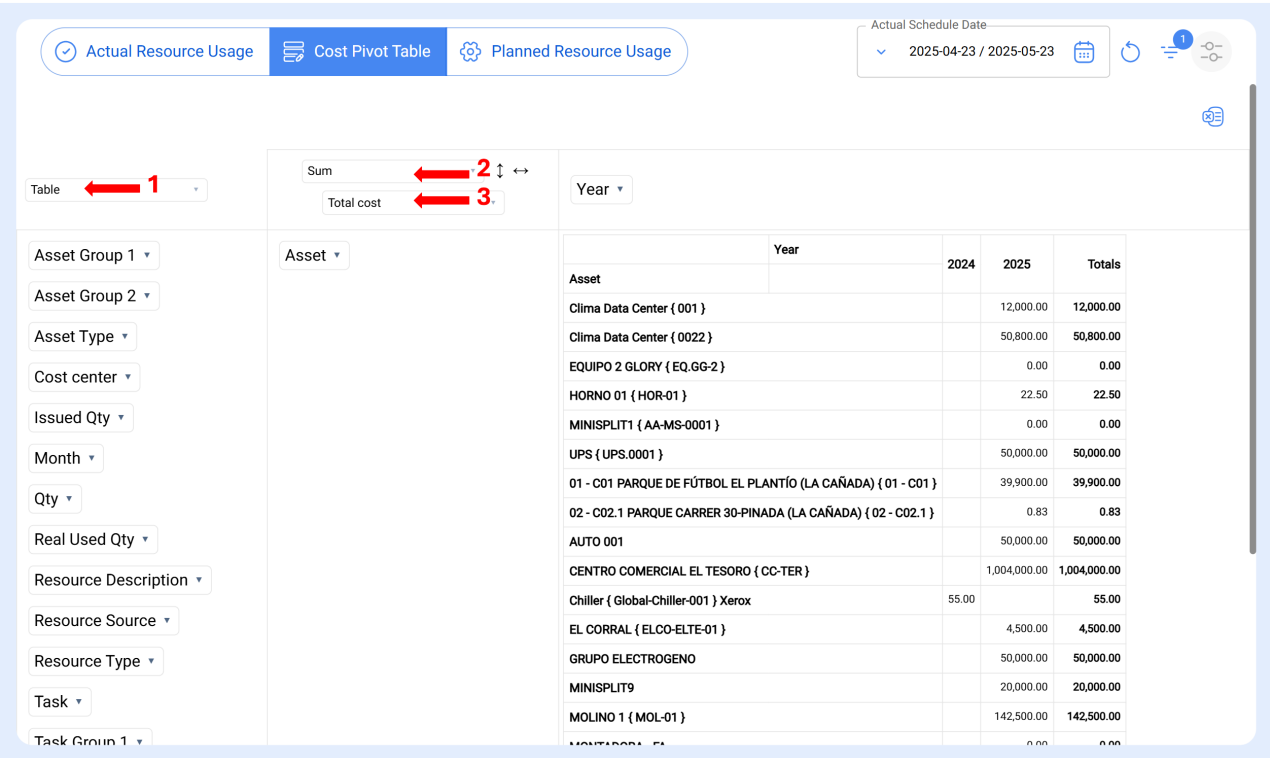
The screenshot displays a Business Intelligence dashboard for 'Economical Analysis'. The main view is a pivot table titled 'Planned Resource Usage' with an 'Actual Schedule Date' of 2025-04-23 / 2025-05-23. The table is filtered by 'Asset' and shows data for the years 2024 and 2025, with a 'Totals' column. A 'Year' dropdown menu is visible in the top right of the table area, and another 'Year' dropdown is highlighted in a red box in the table's column headers. The table lists various assets such as 'Clima Data Center (001)', 'EQUIPO 2 GLORY (EQ.GG-2)', and 'MOLINO 1 (MOL-01)'.

Asset	2024	2025	Totals
Clima Data Center ( 001 )		12,000.00	12,000.00
Clima Data Center ( 0022 )		50,800.00	50,800.00
EQUIPO 2 GLORY ( EQ.GG-2 )		0.00	0.00
HORNO 01 ( HOR-01 )		22.50	22.50
MINISPLIT1 ( AA-MS-0001 )		0.00	0.00
UPS ( UPS.0001 )		50,000.00	50,000.00
01 - C01 PARQUE DE FÚTBOL EL PLANTÍO (LA CAÑADA) ( 01 - C01 )		39,900.00	39,900.00
02 - C02.1 PARQUE CARRER 30-PINADA (LA CAÑADA) ( 02 - C02.1 )		0.83	0.83
AUTO 001		50,000.00	50,000.00
CENTRO COMERCIAL EL TESORO ( CC-TER )		1,004,000.00	1,004,000.00
Chiller ( Global-Chiller-001 ) Xerox	55.00		55.00
EL CORRAL ( ELCO-ELTE-01 )		4,500.00	4,500.00
GRUPO ELECTROGENO		50,000.00	50,000.00
MINISPLIT9		20,000.00	20,000.00
MOLINO 1 ( MOL-01 )		142,500.00	142,500.00
MOLINO 2 ( MOL-02 )		0.00	0.00

This space distribution approach enables dynamic exploration and analysis of data, facilitating identification of trends, patterns, and meaningful relationships for informed decision-making in cost and resource management.

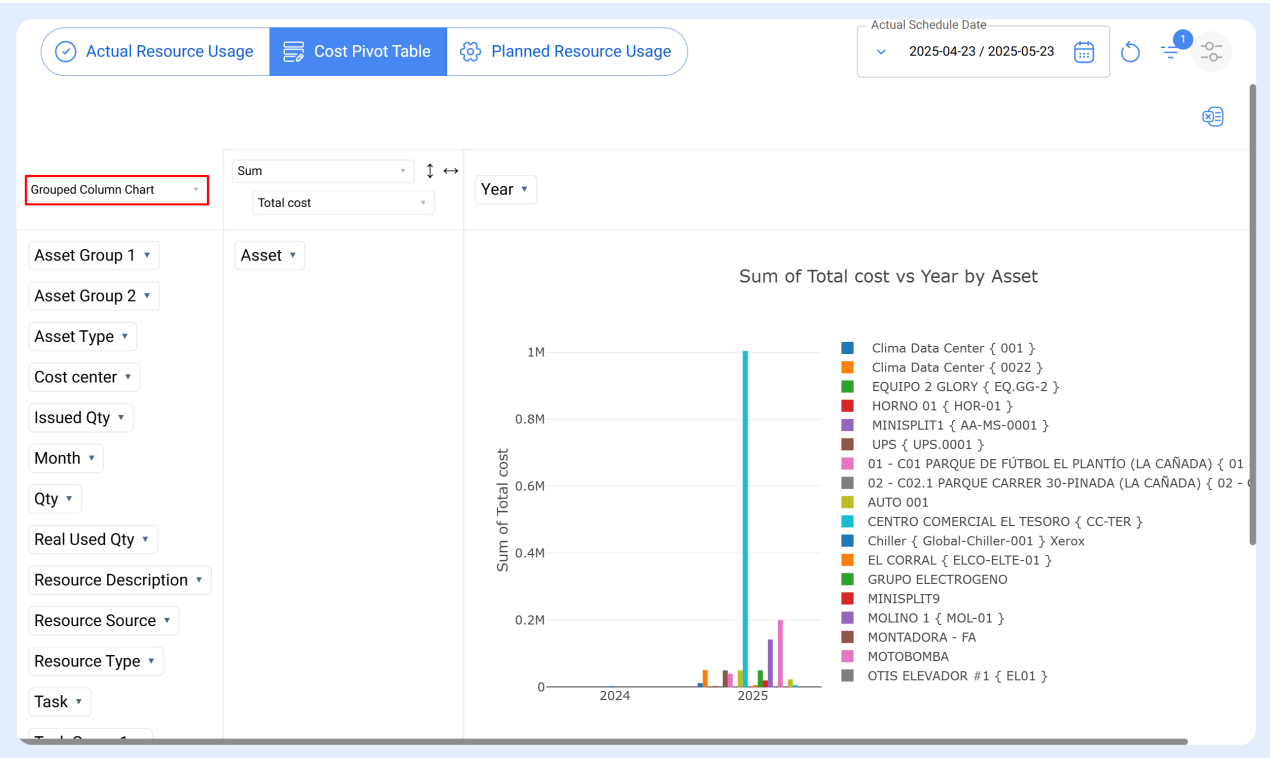
### Application Example:

Management requested a report analyzing resource distribution used in various assets intervened in maintenance plans scheduled from April to May 2025. It is necessary to understand the number of assets in each description category to make informed decisions about resource management and asset allocation.

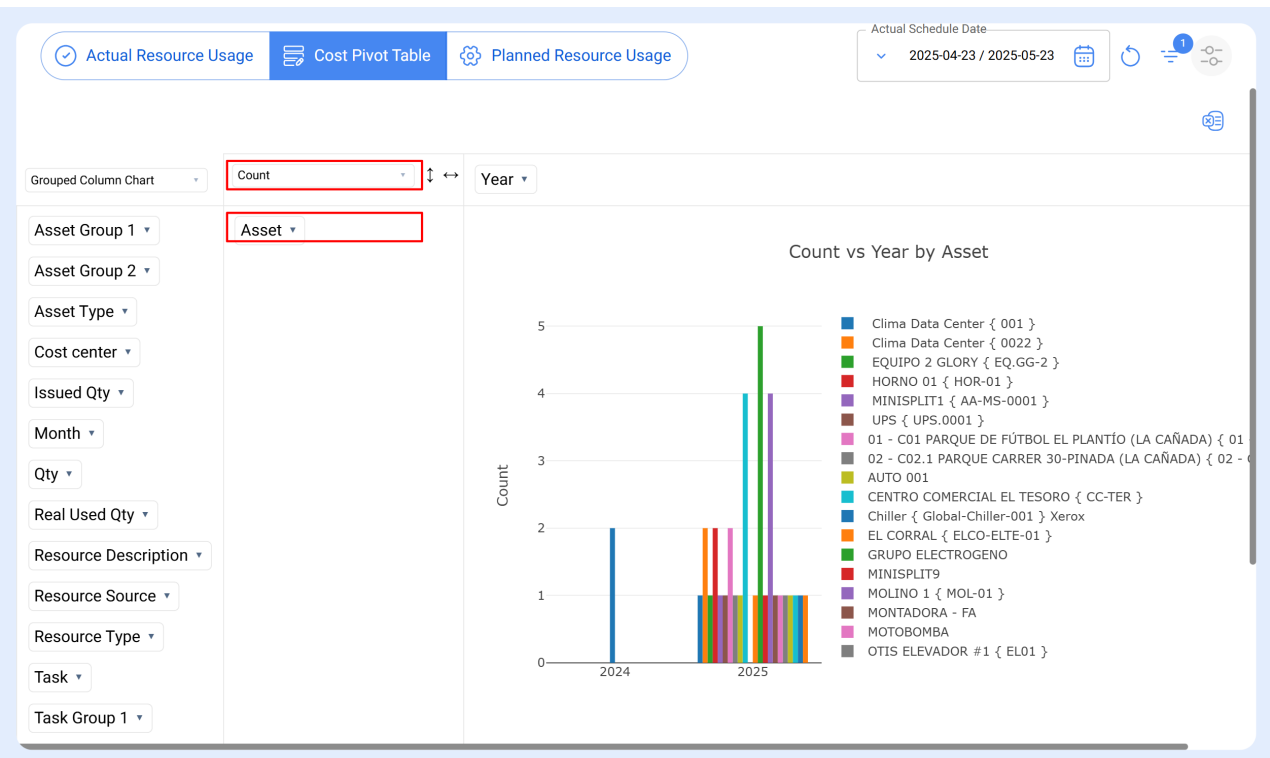


For this case, we can represent data from our business intelligence module in the interface. The first step is to select the three available groupings.

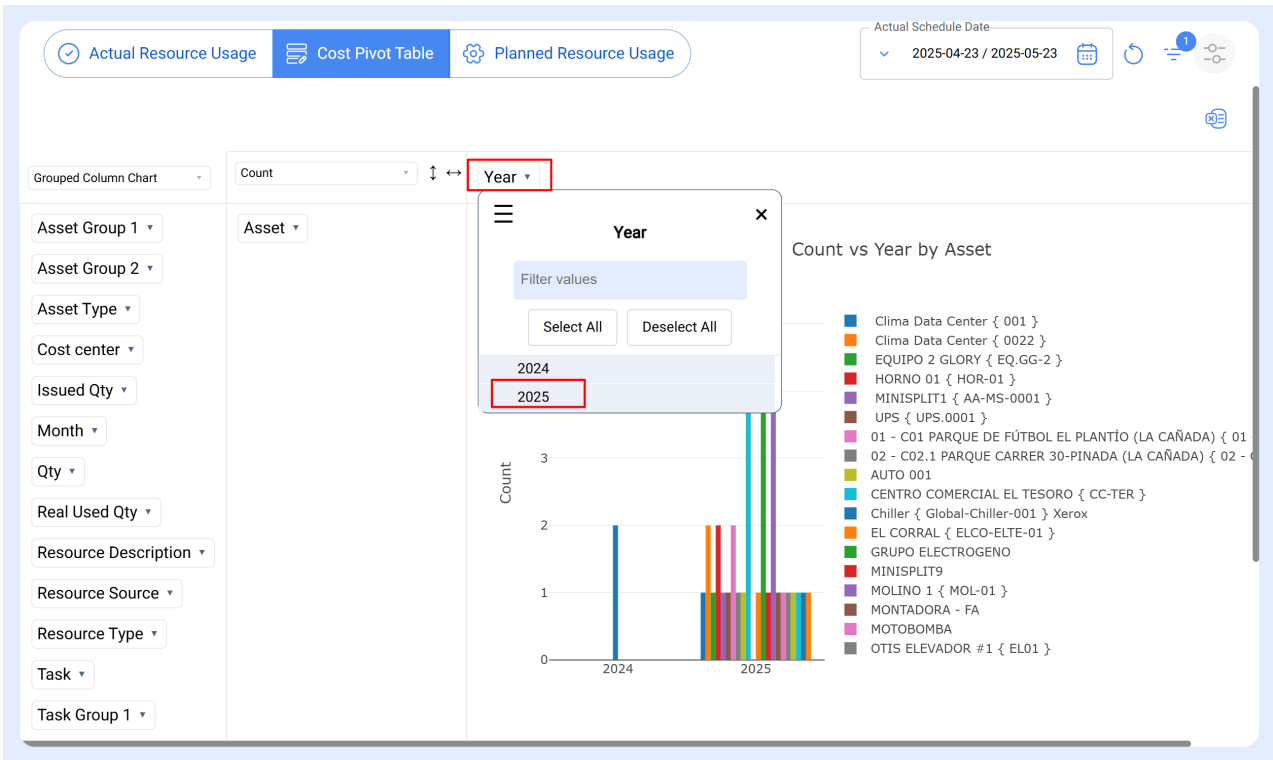
For the first grouping, select the "Grouped column chart" option, which provides a grouped bar chart showing variables on the X axis as columns.



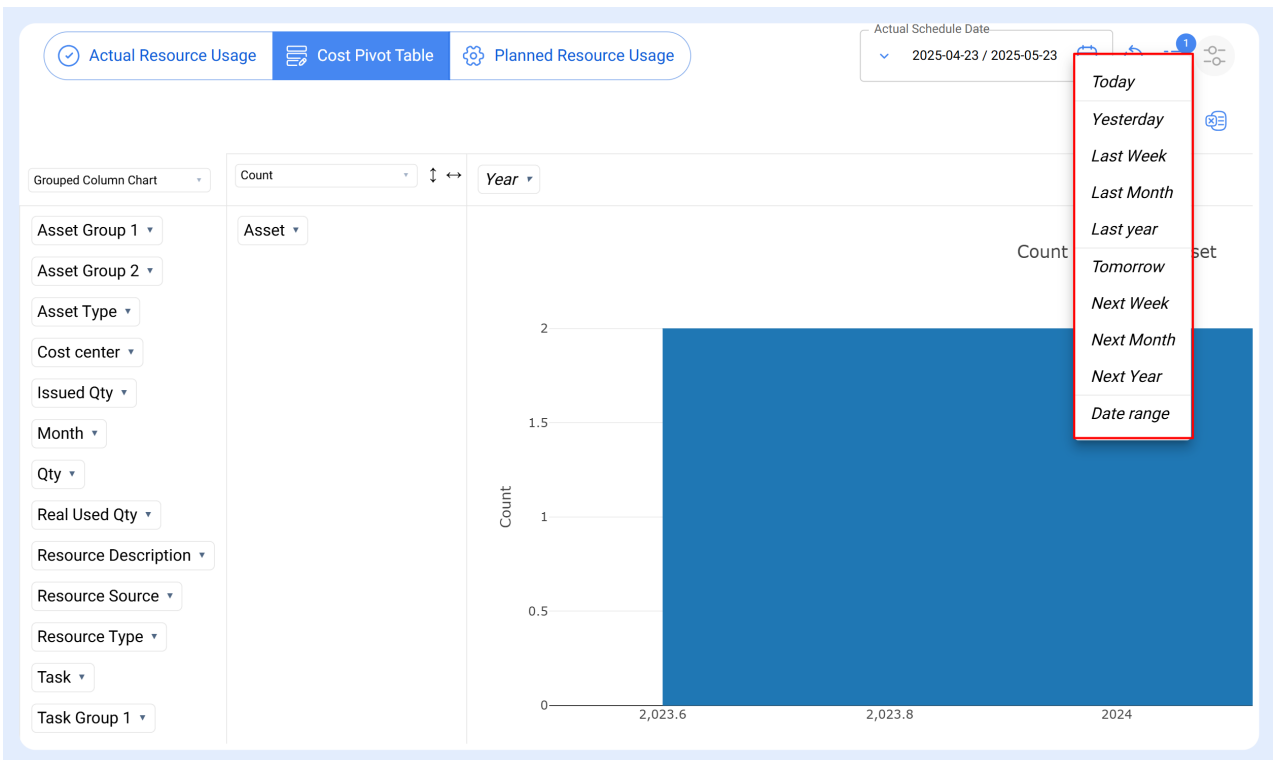
For the second grouping, select the "count" option, which counts the number of values in a column or dataset. Also, add the "asset" parameter in space 2, as it is the data to be analyzed.

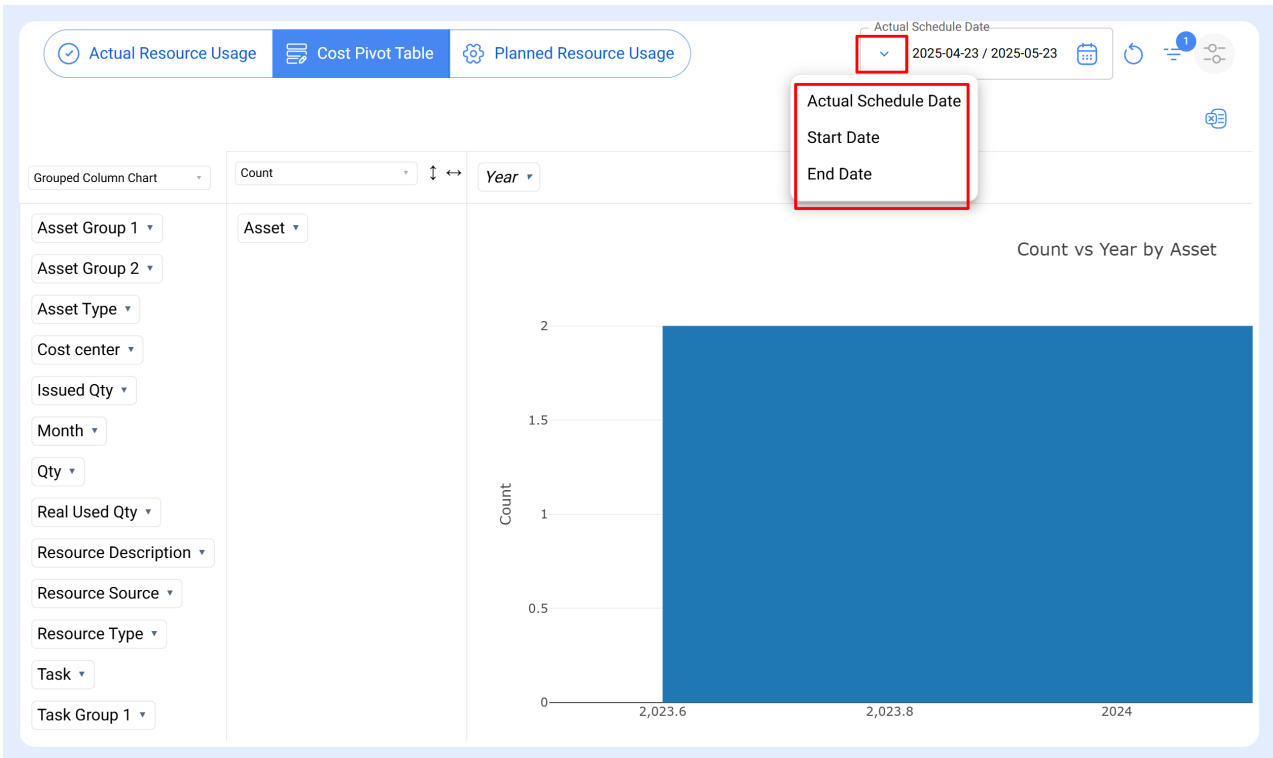


In space 3, add the data with which you want to cross-reference information. In this case, select "Year," specifying 2025 as the reporting period.

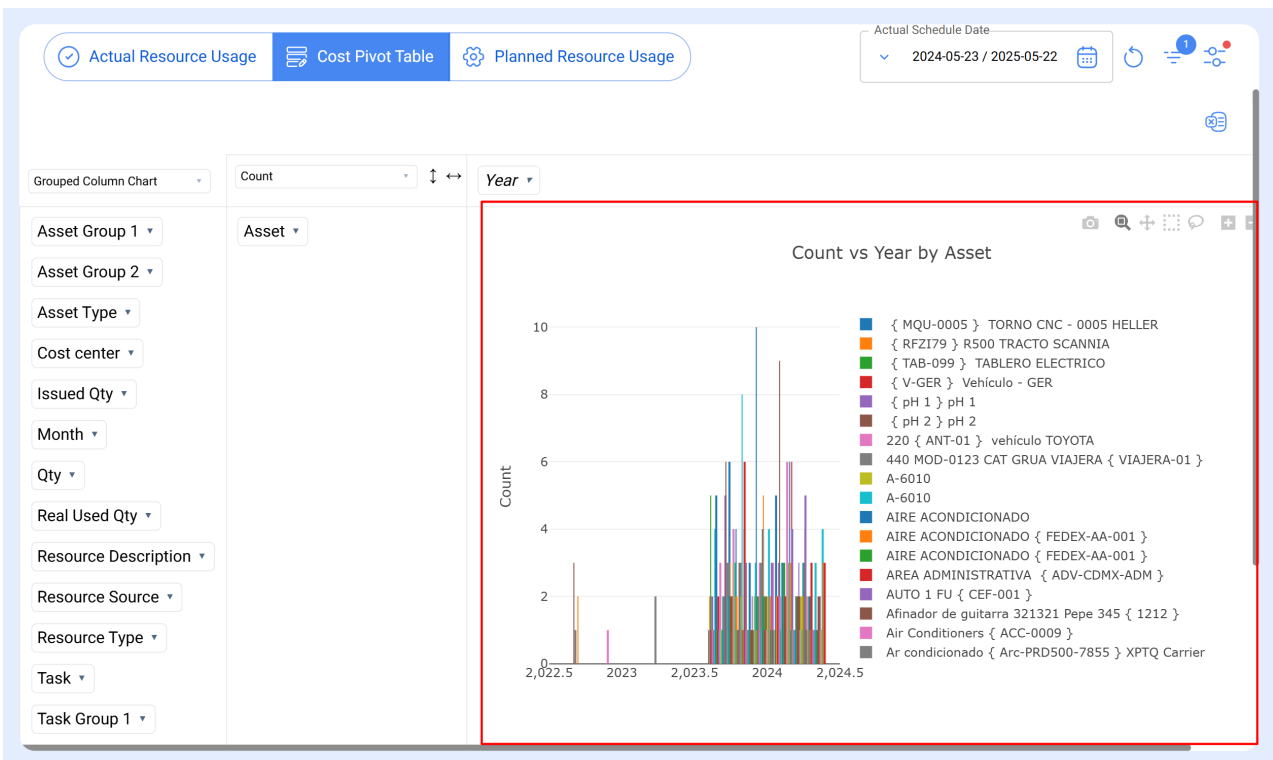


The next step is to select the "Scheduled Date" option in the "Filter by" dropdown to retrieve preventive maintenance plans. Also, select the desired time interval in the "From - To" section, as the required dates fall within this period.





The resulting graph will be displayed as follows:



With this result, we can begin developing the report for management.