Economatica Add-in Guide



Learn more about Economatica, the best market intelligence and data platform with infinite possibilities

ÊCONOMATICA

DATABASE

History: Since 1986.

Countries covered: Argentina, Brazil, Colombia, Chile, Mexico, Peru, and the USA.

Assets: Stocks, REITs, ADRs, BDRs, ETFs, Debentures, Government Bonds, CRIs, CRAs (coming soon), fixed income and equity indices, currencies, inflation indices, commodities, 555 Funds, Structured Funds, RPPS Funds, etc.

General data on asset characteristics	Dividend and income history.	Number of shares.
Financial statements and calculated financial indicators of companies.	History of fixed income and equity index compositions.	Material facts.
Price history adjusted for distributions.	Shareholding composition.	Calculated market and technical financial indicators.
BTC: Lending stock, rates, coverage days, etc.	Fund portfolio composition and monthly reports.	

AND MORE ...



POSSIBILITIES

Comparative analysis of company and asset data. Tools for Valuation calculations, portfolio optimization, and Long & Short operation simulations.

Extraction of historical

data in various formats.

automated data exports.

Programming of

Creation of automated spreadsheets in Excel using our Excel add-in.

Sector analysis.

Graphical analysis of all data.

Construction of unlimited hypothetical portfolios.

Evaluation of fund portfolios individually or consolidated by manager.



DIFFERENTIALS

Data quality: Data doublechecked from official sources.

Personalized support at no additional cost. Database: One of the largest databases in the world in terms of history and volume, with the trust and credibility of over 30 years of experience in the market. Creation of slides for customized reports based on data and layout.

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INTALLATION

Getting started

The following instructions are summarized and provide you with a basic understanding of the topic.

Economatica's "Add-in for Excel" is an application that allows you to access the Economatica server database directly through Excel (without using the proprietary interface of the Economatica system).

Initially click on the icon below to download the Economatica's "Add in for Excel" application. <u>https://economatica.com/add-in-excel</u>

Then run this program.

After executing it your Excel should display a new tab called "Economatica".

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For your Excel to be able to access the Economatica servers you will need to log in. The log in will be done through your Excel. Click the "Log in" button that is located in the "Economatica" tab of your Excel.

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Log in using the same email and password you use to access the proprietary interface of the Economatica system.

You must define specific functions in Excel cells to display data extracted from Economatica servers.

We will explain below the different Eco functions and their respective purposes.





ECO-SECURITIES FORMULA

Functionality:

Using the ECOSECURITIES function, the user will define filters to obtain a list of securities.

Note that new securities enter the database (issuance of new shares, etc.) regularly so each time the ECOSECURITIES function is updated/processed, the list of items will also be updated.

Filling in the formula arguments:

Function Arguments						?	\times
ECOSECURITIES							
Type of Asset	"STOCK"		Î	=	"STOCK"		^
Active/Canceled	"ACTIVE"		Î	=	"ACTIVE"		
Single Entry	"TRUE"		Î	=	"TRUE"		
Country	"BRA"		Î	=	"BRA"		
Exchange	"XBSP"		Î	=	"XBSP"		~
EcoSecurities Function.	Type of Asset	Select the type of asse "CORPORATEBOND", " "STOCKINDEX", "INFLA	t of th GOVEI TION*	= e de RNN , "FD	"Waiting for click on wizard ok button sired securities . The options are : "STO IENTBOND", "ADR", "COMMODITY", "CL KEDINCOMEINDEX" and others.	to calc CK", "FUND' JRRENCY",	', "ETF",
Formula result = Waiting for Help on this function	click on wizard ok but	ton to calculate.			ОК	Canc	el
Function Arguments						?	×
ECOSECURITIES							
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Country Exchange Show Header Customized Header Optionals EccoSecurities Function.	TBRA	Select the origin count "USA", "ARG", "BRA", "(1 1 1 1 1	= = = = he c COI	"BRA" "XBSP" "TICKER" "Waiting for click on wizard ok button ompanies issuing the desired securities ", "MEX", "PER" and others.	to calculate	s are :
Country Exchange Show Header Customized Header Optionals EcoSecurities Function.	TRAN	Select the origin count "USA", "ARG", "BRA", "f ton to calculate.	1 1 1 1 1 1	= = = = he c	"BRA" "XBSP" "TICKER" "Walting for click on wizard ok button ompanies issuing the desired securities ", "MEX", "PER" and others.	to calculate	s are :

It is not necessary for all fields (filters) to be filled in. You must only fill in the fields that are necessary and sufficient to define the list of assets you want.

TYPE OF ASSET

In this field you will indicate which asset type(s) the items you want to display belong to.

The options are: "STOCK"; "FUND"; "ETF"; "CORPORATEBOND"; "GOVERNMENTBOND"; "ADR"; "COMMODITY"; "CURRENCY"; "STOCKINDEX"; "INFLATION"; "FIXEDINCOMEINDEX"; "RPPSFUND";"CLOSEDENDFUND" and others.

ACTIVE / CANCELED

Indicate whether you want items that are currently active or items that have already been canceled from trading.

The options are: "ACTIVE" and "CANCELED".

SINGLE ENTRY

Companies that are issuers of multiple securities (multiple share classes, etc.) will appear on the list multiple times (once for each of their securities). If, however, this field is filled in with "TRUE", the company will appear on the list only once and will be represented by its most liquid security.

COUNTRY

Indicate the country of origin for the companies issuing the items you want.

The options are: "USA", "ARG", "BRA", "CHL", "COL", "MEX", "PER" and others.

EXCHANGE

Indicates the stock exchange where the items you want are traded.

The options are the names of the exchanges according to the ISO standard: "XNYS" (New York Stock Exchange); "XNAS" (NASDAQ); "XBUE" (Buenos Ayres Commerce Exchange); "XBSP" (B3); "XSGO" (Santiago Stock Exchange); "XBOG" (Bogotá Stock Exchange); "XMEX" (Mexican Stock Exchange); "XLIM" (Lima Stock Exchange) and others.

SHOW HEADER:

The cell at the top of the asset list will be display the heading "Code".

In some situations, you may prefer to omit the header. For example, when you are fitting Economatica data into a report that already contains a title.

To omit the header, fill this field with "FALSE".

CUSTOMISED HEADER:

Through this field you can choose a header different from the default header offered by the system.

Enter the desired header in this field.

OPTIONALS:

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Through this field, the user can make filters using variables other than those listed above. At the end of this document, you will find a guide dedicated to these options, contact Economatica support if you need more detailed guidance.



ECONOMATICA FORMULA

Functionality:

The ECONOMATICA function offers the user two types of content:

- 1. A single data (the price on a certain date, the profit on a certain date, the company's sector, the name of the fund manager, etc.)
- 2. The historical series of data (historical price series in each period, historical profit series in each period, etc.)

1. Filling in the formula arguments:

=ECONOMATI	CA(\$C\$4:\$C\$385;	"REVENUES"	';"12m";"LAT	EST	Γ"	';;;;"MILLION	IS";;;"RECEIT/	۹ LÍ	QUIDA")	
ECONOMATIC/ Header; Optio	A(Ticker ; Attribute; Att nals)	tribute's period;	Date; Range star	t da	te	; Interval; Currency	; Multiplier; Show D	ates; S	Show Header; Cust	tomized
Economatica F	unction									
Ticker: Type of	ne (and only one) ticker	symbol (Ex : "M	1SFT") or refer to a	ı cell	W	where the ticker sym	nbol is (Ex : A7) or re	fer to d	a cell range where	a list of ticker
symbols are (E	x : A7:A27)									
			I., I.,		1.2		, I., .	1		·
Function Arguments			?	\times	1	Function Arguments				? ×
ECONOMATICA						ECONOMATICA				
Ticker	\$C\$4:\$C\$385	1 = {"TTEN3 <xbsp>"</xbsp>	;"QVQP3 <xbsp>";"ABCB4<xbs< td=""><td>^</td><td></td><td>Multiplier</td><td>"MILLIONS"</td><td>Î</td><td>= "MILLIONS"</td><td>^</td></xbs<></xbsp>	^		Multiplier	"MILLIONS"	Î	= "MILLIONS"	^
Attribute	"REVENUES"	1 = "REVENUES"			11	Show Dates		Î	=	
Attribute's period	"12m"	1 = "12m"				Show Header		Ť	=	
Date	"LATEST"	1 = "LATEST"			Н	Customized Header	"RECEITA LÍQUIDA"	Î	= "RECEITA LÍQUIDA"	
Range start date		1 =		~	1	Optionals		Ť	=	~
Economatica Function.		= "Waiting for click	on wizard ok button to calc			Economatica Function.			= "Waiting for click on wizard	ok button to calculate
	Ticker Type one (and only one) (Ex : A7) or refer to a cell	ticker symbol (Ex : "MSFT") or I range where a list of ticker sy	refer to a cell where the ticker sy mbols are (Ex : A7:A27).	mbol is			Multiplier The options are "U "VOLATILITY", etc c "DECIMAL").	NITS", "THOU ome from Ec	ISANDS","MILLIONS","BILLIONS" (sc conomatica in percentage, to divide	me attributes like "RETURN", them by 100 use option
Formula result = Waiting for click	k on wizard ok button to calculate.					Formula result = Waiting for clic	k on wizard ok button to calculate.			
Help on this function			OK Cance	el		Help on this function			ОК	Cancel

It is not necessary for all fields (filters) to be filled in. You must only fill in the fields that are necessary and sufficient to define the list of assets you want.

TICKER

In the "Ticker" field you must enter the code of the asset whose information you want.

The "Ticker" field can be filled in 3 different ways:

- Enter a Ticker. Example: "MSFT" (in double quotes);
- Fill in the coordinates of a cell where you previously entered the Ticker of the desired asset. Example: A3 (without quotation marks);
- Place a range of cells where you have previously entered the Tickers of various assets for which you want the information. Example: A3:A53 (without quotes).

ATTRIBUTE

In the "Attribute" field you must indicate the information you want. Examples: closing price, traded volume, volatility, return, P/L and all the other hundreds of possibilities that are offered in the proprietary interface of the Economatica system.

There are two ways to fill in the "Attribute" field:

- Choosing the attribute from a list (recommended, easiest)
- Typing the attribute name.

Choosing attribute from a list:

Position the cursor in the "Attribute" field and click on the icon highlighted in the image below to access the list of all

available attributes. You will then access a screen like the attribute choice screen in the Economatica system's proprietary interface.



Entering the attribute name:

The exact name that must be used is the one that appears in the columns of the Screening window of the Economatica system (proprietary interface).

		Close U1 Jul24 adj by CA's orig currency	Volume\$ Latest in this days orig currency in thousands	Volatility yearly basis 01 Jul24 1 years orig currency	Return of close in 1 years (from 01 Jul23 to 01 Jul24) orig currence of close
3r Petroleum					
Allos	ALOS3		85.425	24,74	-9,47
Alpargatas	ALPA4				

ATTRIBUTE'S PERIOD

Depending on the attribute chosen in the previous field, you will need to enter the desired period.

Example: the "Return" attribute can be "in the year", "in 1 month", "since 05/05/2015", "since the beginning of the series", etc.

Several attributes, however, are not associated with a period and for them this field must be left blank. Examples: closing, net worth, sector, etc.

- For items such as return, volatility, etc. the options are:
 - o "1d", "21d", "52w", "5y", etc.
 - "YTD" (year to date), "QTD", "MTD", "WTD".

- "From start" (from the beginning of the price series);
- "yyyy-mm-dd" (since a specific date);
- For items such as profit, EBITDA margin, etc. the options are:
 - "3m", "12m", "In fiscal Year" (since the beginning of this company's fiscal year);
- A5 (Indicate the coordinates of the cell where you previously entered the desired period).

DATE

In this field you will indicate the date to be associated with the "Attribute" field.

Example: the closing price on 5/5/2015 or on 12/31/2017 or today or a month ago etc.

Several attributes, however, are not associated with a date and for them this field must be left blank. Examples: sector, name of the fund administrator, etc.

The date must be written between double quotation marks, in English and following the pattern shown in the examples below.

- For daily items like closing, volatility, P/L etc. the options are:
 - "yyyy-mm-dd" (on a specific date);
 - "D-0" (on the last day already closed), "D-1" (one day before the last day already closed), "D-2", etc;"D-1M" (one month before the last day already closed), "D-2Y" (two years before the last day already closed), "D-52W", etc.;
 - "latest" (on the day the asset was last traded/priced. This date will be different from D-0 only for illiquid assets that were not traded/priced on D-0);
- For quarterly items such as **profit**, **EBITDA margin**, **shareholders' equity**, etc. the options are:
 - "yyyy-mm-dd" (on a specific date); the "latest" (from the last financial statement available for that company);
 - "Jan/yyyy", "Feb/yyyy", etc. (from the financial statement dated in the specified month);
 - "<Mar/yyyy" (from the financial statement dated between 8/Jan and 7/Apr) (*)
 - "<Jun/yyyy" (from the financial statement dated between 8/Apr and 7/Jul) (*);
 - "<Sep/yyyy" (from the financial statement dated between 8/Jul and 7/Oct) (*);
 - "<Dec/yyyy" (from the financial statement dated between 8/Oct and 7/Jan) (*);

(*) These 4 options (where there is a "<" sign before the name of the month) are useful when working with companies with irregular fiscal years, i.e., which publish statements on dates other than 31/Mar, 30/Jun., 30/Sep and 31/Dec.

A5 (Indicate the coordinates of the cell where you previously entered the desired date).

RANGE START DATE (Historical series)

This field must only be filled in when you want to obtain information for a range of dates and not just for a single date.

In this field you must enter the start date of the desired range. The end of the range will be the date you previously specified in the "Date" field.

The options are:

- "yyyy-mm-dd" (since a specific date);
- "20d" (20 days before the end date specified in the "Date" field), "52w", "2y" etc.
- A5 (Indicate the coordinates of the cell where you previously entered the desired date).

INTERVAL (Historical series)

This field must only be filled in when you want to obtain information for a range of dates and not just for a single date.

The options are:

• "d (show values on all days within the chosen date range);

• "w" (show only the values for Fridays within the chosen date range and in the case of cumulative values (*) show the values accumulated in the week);

• "m" (show only the values of the last day of the months within the chosen date range and in the case of cumulative values (*) show the values accumulated in the month);

• "q" (show only the values of the last day of the quarters within the chosen date range and in the case of cumulative values (*) show the values accumulated in the quarter);

• "y" (show only the values of the last day of the years within the chosen date range and in the case of cumulative values (*) show the values accumulated in the year);

• A5 (Indicate the coordinates of the cell where you previously typed the letter (d, w, m, q or y) that represents the desired range).

(*) cumulative values are those that are associated with a period and not a single moment. Examples: volume traded in the period, fundraising in the period, maximum price in the period, etc.

CURRENCY

The Economatica database covers several countries so there is data in several different currencies (quotes, financial statements, etc.). This fields allows you to convert the data to other currencies.

The options are:

- "USD" (converts to US dollars);
- "EUR" (converts to Euros, not available for some currencies);
- "Inflation adjusted" (shows values in the original currency, but updated for inflation, not available for some currencies);

In cases where the function must return a historical series of quotes (does not apply to attributes such as Profit, etc.), through this field it will also be possible to make the series start on a base equal to 100.

The options are:

- "Rebased to 100" (adjusts so that the beginning of the series is equal to 100)
- "USD rebased to 100" (converte para US dólares



e depoisajusta para que o início da série seja igual a 100)

- "EUR rebased to 100" (converte para Euros e depois ajustapara que o início da série seja igual a 100)
- "Inflation adjusted rebased to 100" (atualiza pela inflação edepois ajusta para que o início da série seja igual a 100)

MULTIPLIER

This field allows you to define whether the values should be presented in thousands, millions, etc.

This field should only be filled in for items (attributes) where the multiplier makes sense. Examples: Total Assets, Revenue, Trading Volume, etc.

This field must not be filled in for items (attributes) such as Quote, Net Margin, Earnings per share, etc.

The options are:

- "UNITS" (do not apply any multiplier)
- "THOUSANDS"
- "MILLION"
- "BILLIONS"
- "DECIMAL" (some attributes such as Return, Volatility, etc. come from Economatica servers expressed in percentage (Ex.: 12.7). If you prefer to present them in decimals, use the "DECIMAL" option. This way the original values will be divided by 100 and consequently will be presented in decimals (Ex.: 0.127))

SHOW HEADER

The Header is the description that appears in the top cell. Example: "Return in 1 year", "Profit in 3 months", etc.

EXAMPLE OF USE:

In functions with a single ticker and a single date, the header does not appear (by default). The header, however, appears (by default) in the two situations below:

- When you have defined a function for several tickers.
- When you defined a function that displays a range of dates.

In some situations, you may prefer to omit the header. For example, when you are fitting Economatica data into a report that already has a defined design.

To omit the header, fill this field with "FALSE".

CUSTOMIZED HEADER

Through this field you can choose a header different from the default

header offered by the system.

Enter the desired header in this field.

OPTIONALS

Through this field you can make other settings.

At the end of this document, you will find a guide dedicated to optionals.

The syntax of this field can be complex in some cases, contact Economatica support if you need more detailed guidance.

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1		Eurotian	Argunante			
2		Function	Arguments			
3		ECOSECU	JRITIES			
4	Sector Economatica=construction		Country			Ť
5	Total Assets[date=2018-12-31]>1000000000		Exchange			+
6	ROE (avg)[date=2017-12-31]>10		how Header			
7	ROE (avg)[date=2018-12-31]>10		now neader			<u> </u>
8	ROE (avg)[date=2019-12-31]>10	Custom	ized Header	\frown		Ĩ
9			Optional	E4:E8		Ť
10				\sim		

SHOW DATES

In cases where you have defined a function that brings values for a range of dates, a column will appear with the respective dates to the left of the values. To omit the date column, fill this field with "FALSE".

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2													
3		Ticker	Nome	Fechamento	P/L	Rece	ita líquida						
4		PETR4 <xbsp></xbsp>	Petrobras	38,05	4,5	R\$	490.647						
5		PETR3 <xbsp></xbsp>	Petrobras	40,38	4,8	R\$	490.647						
6		VALE3 <xbsp></xbsp>	Vale	62,22	7,0	R\$	206.116						
7		ABEV3 <xbsp></xbsp>	Ambev S/A	11,41	12,4	R\$	79.481						
8		ARZZ3 <xbsp></xbsp>	Arezzo Co	51,35	13,9	R\$	4.894						
9		AERI3 <xbsp></xbsp>	Aeris	5,1	-1,8	R\$	2.516						
10		AESB3 <xbsp></xbsp>	AES Brasil	11,39	496,8	R\$	3.474						
11		ANIM3 <xbsp></xbsp>	Anima	3,15	-6,3	R\$	3.769						
10			Afluonto T	7 10	177	D¢	60						

ECO-BENCHMARK FORMULA

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Functionality:

Using the ECOBENCHMARK function, you can create a benchmark based on any asset available in the Economatica database (according to the contracted database).





A series of prices will be created for this benchmark so that its returns are equal to the returns of the asset used as a base but amplified by a factor chosen by the user.

This amplification of the returns of the base asset can be done by **adding a factor** (S&P500 + 6%) or by **multiplying by a factor** (110% of the T-bond).

Ex: S&P 500 + 6%, CPI-U + 4%, 110% do T-Bond, etc.

NOTE: The benchmark price series is constructed in such a way that the DAILY variations of the benchmark are, in this example, 110% of the DAILY variations of the asset used as base. A mathematical consequence of this is that the ANNUAL variations of the benchmark will only be approximately equal (and not exactly equal) to 110% of the ANNUAL variations of the asset used as a base.

The start date of the benchmark series will coincide with the start date of the asset series used as a

base.

At the end date, the value of the benchmark series will be 100.

EXAMPLES OF USE:



Filling in the formula arguments:

SECURITY

Enter in this field the code (as used in the Economatica system) of the asset that will be the basis of the benchmark.

Ex: "CPI-U", "S&P 500", etc., to create your BENCHMARCK.

TYPE OF OPERATION

Fill in this field with "A" to add a factor (Ex: S & P500 + 5%) and "M" to multiply by a factor (Ex: 110% of the T-bond).

FACTOR

Enter the factor.

Ex: 5, 110, etc. Do not use the "%" symbol.

NAME

Provide the desired name.



ECO-PORTFOLIO FORMULA

Functionality:

Using the ECOPORTFOLIO function, you can define the composition of an investment portfolio containing any asset that is available in the Economatica database: shares, ETFs, funds, etc. ((according to the contracted database).

There are two different types of portfolios:

- **Percentage Portfolio**: inform the percentage weights of each asset on one (or more) dates.
- Financial Portfolio: inform each purchase and sale transaction.

Characteristics of the Percentage Portfolio

To define a Percentage portfolio, the user must enter the percentage weights of each asset on a given date, following the format shown in the example below.

Note: Do not use the "%" symbol.

				-	_		
A	ВС	D	E	F	G	н	
	=ECOPORTFOLIO("P";						
ECOPO	RIFOLIO(Type of portfolio; Composition/	Transactions; Tolerance; Rebalance; N	Name)				
EcoPort	TOHO FUNCTION	a partfalia (it is fad with the persented	o unights of each accet)	"E" to allos	ata Enanci	al values (C)	ofthe
Type of	portfotto. P for percentage values of th	e portiono (ii is jeu with the percentag	e weights of each asset).	F to alloc	ate priance	ut vutules (\$)	of the
portfoli	o (it is fed with the financial values of each	purchase and sale)					
portfoli	o (it is fed with the financial values of each	purchase and sale)					
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	PETR4 PETR4 VALE3 IBOV CDI ACUMULADO	01/01/2024 25 25 25 25 25 25	01/02/2024 25 25 25 25				
	Cit is fed with the financial values of each PETR4 VALE3 IBOV CDI ACUMULADO ITUB4	01/01/2024 25 25 25 25 25	01/02/2024 25 25 25 25				

The historical series of the share value of this portfolio will be created. On the start date the quota value

will be 100.

Its beginning will coincide with the beginning of the historical series of the portfolio component that is younger, that is, whose historical series started more recently.

Example: If one of the portfolio components is a stock whose trading began just 20 days ago, then the portfolio share value series will also start just 20 days ago.

When the user enters the weights for just one date, the composition of that date will be a reference for previous dates (since the beginning) and will be a reference for later dates (until today).

When the user enters the weights for more than one date, each defined composition will be a reference for subsequent dates up to the date on which the user defined a new composition (or until today if it is the last composition defined by the user). The first composition defined by the user will also be a reference for previous dates (from the beginning).

For Percentage Portfolios (does not apply to Financial portfolios) the user can choose between rebalancing or not rebalancing the composition. See clarifications in the chapter "Filling out the REBALANCE field".



Features of the Financial Portfolio

To set up a financial portfolio, the user must enter buy and sale transactions following the format shown in the example below.

A	В	C	D		E	F	G	Н	
-		=ECOPORTFOLIO("F";							
								14	1
ECOP	ORTFOLIO(Typ	e of portfolio; Compositio	on/Transactions; Tolerance; R	lebalance; Nar	ne)				
ECOPO	ortfolio Functio	IN "D" for porceptage values of	Etha nortfolio fit is fad with th		mable of each accest	"E" to allo	cato financ	al values /s	of the
rype	of portfollo:	P for percentage values of each of the financial values of	r the portfolio (It is fed with th ach purchase and sale)	ie percentage w	reignts of each asset).	r to allo	cate financi	iai vaiües (3)) of the
porte	no (n is jeu wi	the financial values of ea	ien parenase ana salej						1
		03/01/2024	PETR4	R\$	50.000,00				
		03/01/2024	VALE3	R\$	30.000,00				
		03/01/2024 03/01/2024	VALE3 IBOV	R\$ R\$	30.000,00 10.000,00				
		03/01/2024 03/01/2024 03/01/2024	VALE3 IBOV CDI ACUMULADO	R\$ R\$ R\$	30.000,00 10.000,00 5.000,00				
		03/01/2024 03/01/2024 03/01/2024 12/03/2024	VALE3 IBOV CDI ACUMULADO ITUB4	R\$ R\$ R\$ R\$	30.000,00 10.000,00 5.000,00 15.000,00				
		03/01/2024 03/01/2024 03/01/2024 12/03/2024 20/03/2024	VALE3 IBOV CDI ACUMULADO ITUB4 PETR4	R\$ R\$ R\$ R\$ -R\$	30.000,00 10.000,00 5.000,00 15.000,00 25.000,00				
		03/01/2024 03/01/2024 03/01/2024 12/03/2024 20/03/2024 16/04/2024	VALE3 IBOV CDI ACUMULADO ITUB4 PETR4 ITUB4	R\$ R\$ R\$ - R\$	30.000,00 10.000,00 5.000,00 15.000,00 25.000,00 SELL ALL				

The historical series of the share value of this portfolio will be created.

Its start will coincide with the date of the first transaction.

On the start date the quota value will be 100.

In the Financial portfolio (does not apply to the Percentage portfolio), in addition to the share value, the series of portfolio equity values will also be created.

Sell all of a given asset

The resource explained below is useful if you want to sell your entire position in an asset, that is, "**zero out**" that asset's position in the portfolio.

The most practical solution to this issue is to create a transaction and fill in the "value" field with "SELL ALL" (instead of filling it with a financial value).

The example above shows a portfolio where the position in ITUB4 was "zeroed" on 04/16/2024.

Calculating indicators of the constructed portfolios

After defining the portfolio composition using the ECOPORTFOLIO function, you will use the ECONOMATICA function to access data such as:

- historical series of the share value of this portfolio.
- portfolio annual return.
- portfolio volatility.
- chart the evolution of the portfolio value.
- compare portfolio performance with benchmark performance.
- etc.

To obtain this data from the Portfolio, you must reference in the Economatica formula the position of the cell that contains the Ecoportfolio function, and consequently the name assigned to the portfolio, as the "Ticker" of the Economatica function.





TYPE OF PORTFOLIO

This field must be filled in with P or F if you want a Percentage portfolio or a financial portfolio respectively. See explanations on this subject above in this chapter.

COMPOSITION / TRANSACTIONS

Use this field to indicate the range of cells where you previously entered the weights or portfolio transactions.

To define a Percentage portfolio, as explained previously, you must enter the percentage weights of each component on one (or more) dates. Do not use the "%" symbol

To define a **Financial** portfolio, as explained previously, you must inform buy and sale transactions.

TOLERANCE

If any component of the portfolio does not have a quote on one or more dates, enter the maximum period that the previous quote for that component must be repeated. Ex: 5D (minimum), 1M, 35D, etc. If, even considering the tolerance chosen by the user, any component still presents dates without quotations, then the portfolio will also not present values on those dates. Fill in this field with the name you want to assign to the portfolio.

REBALANCE

This field must be completed only for Percentage portfolios (does not apply to Financial portfolios).

CONOMATICA

The options are N (no) and Y (yes). If this field is left blank, option N will apply.

- N: Non-Rebalance. On dates after (*) the composition informed by the user, the portfolio composition will show changes in relation to the initial weights. These changes are caused by the fact that the portfolio components present different valuations over time.
- Rebalance. On dates after (*) the composition informed by the user, the portfolio composition will remain unchanged in relation to the initial weights. The composition will remain unchanged (although the portfolio components will show different valuations over time) because the system will create a situation equivalent to executing daily sales and purchases necessary to keep the initial weights unchanged.
- (*) It will also apply to previous dates if that composition is the only one (or the first of several) informed by the user.

NAME

NOTE: Maximum Portfolio Size

There is a limit to the size of the Portfolio.

In the case of the Percentage Portfolio, there is a limit to the number of cells in the matrix, that is, there is a limit to the combination of the number of assets (rows) and the number of dates on which the composition was reported (columns).

In the case of the **Financial Portfolio**, there is a limit to the number of transactions reported.

It is not possible to establish a fixed size limit because this limit depends on the content of each cell.

Example: If each cell is filled with two decimal places (ex 32.96) the limit number of cells in the matrix will be greater than if the cells are filled with four decimal places (Ex 32.9655).

In other words, the maximum size will depend on how you fill each cell.

Just as a reference, the maximum size for a Percentage Portfolio with cells filled with 2 decimal places (Ex 32.96) is approximately 4500 cells, this means, for example, a portfolio with 45 assets (lines) and composition informed on 100 dates (columns).



ECO- DATASET FORMULA

Functionality:

The ECODATASET function returns one of two types of data:

- (CA) The list of proceeds (dividends, bonuses, interest, etc.) paid for a security.
- (PH) The composition of the investment portfolio of a Fund or a Hypothetical Portfolio on various dates (on hypothetical portfolios see the Ecoportfolio chapter).

(CA) - The list of dividends:

S	OMA	~] i 🕽	× ✓	$f_x \sim$ =ECO	DATASET(<mark>\$B\$4;"CA";\$B\$6;</mark> \$B\$7)	
	A	В	C	D	E	F
1			ECODA	TASET(Ticker; I	Data Type; Range end date; Range start date; Currency; Multiplier; Optionals)	1
2			EcoDat	aSet Function		
3			licker:	: Type one (and	only one) ticker symbol (Ex : "MSFI") or refer to a cell where the ticker symbol is (E	x: A/)
4		PET	R4	SET(\$B\$4;	Descrição	Fator
5				25/04/2024	Dividendo de \$0.55016 por ação	0,986969259
6	Dta. Base:	11/09/	2024	25/04/2024	Dividendo de \$0.55016 por ação	0,986797217
7	Dta. Inc.:	01/01/	2024	25/04/2024	Dividendo de \$0.022371 por ação	0,999455964
8		-		25/04/2024	Dividendo de \$0.027337 por ação	0,999334816
9				02/05/2024	Dividendo de \$0.84963 por ação	0,97985708
10				02/05/2024	Dividendo de \$0.84963 por ação	0,979443002
11				02/05/2024	Dividendo de \$0.034548 por ação	0,999146565
12				02/05/2024	Dividendo de \$0.042218 por ação	0,998956196
13				11/06/2024	Dividendo de \$0.44807 por ação	0,988102319
14				11/06/2024	Juros sobre o capital próprio de \$0.52162 por ação	0,985982423
15				11/06/2024	Juros sobre o capital próprio de \$0.073554 por ação	0,997995262
16				21/08/2024	Dividendo de \$0.11385 por ação	0,997008713
17				21/08/2024	Dividendo de \$0.5266 por ação	0,986122438
18				21/08/2024	Juros sobre o capital próprio de \$0.41275 por ação	0,988969624
19						



Filling in the formula arguments

TICKER

In the "Ticker" field you must enter the code of the asset you're interested in.

For assets not listed on the stock exchange (mutual funds, etc.), enter the same code used in the proprietary interface of the Economatica system.

DATA TYPE

Fill in this field with "CA" (corporate actions) to obtain a list of the proceeds (dividends, bonuses, interest, etc.) paid for a security.

This field specifies the end date of the desired date range. The options are:

yyyy-mm-dd

RANGE START DATE

This field specifies the starting date of the desired date range. The options are:

yyyy-mm-dd

CURRENCY

This field allows you to convert the data to other currencies. The value of dividends and other earnings paid will be converted to the chosen currency.

The options are:

- USD
- EUR
- Inflation adjusted

MULTIPLIER

For Earnings (Data Type=CA) this field must not be filled in. It makes no sense to change the unit in which earnings are presented.

RANGE END DATE



(PH) - The composition of the investment portfolio of a Fund or a Hypothetical Portfolio:

В	C	D	E	F	G	н	1 I I	J	K	L	M	N	0	Р	Q	R	S
		ECODATASET(EcoDataSet Fu <i>Ticker: Type o</i>	Ticker; Data Type; Range end unction one (and only one) ticker symb	date; Range ol (Ex: "MSFT	start date; C ") or refer to	urrency; Mu a cell where	ltiplier; Opti the ticker sy	onals) mbol is (Ex :	A7)								
IBOV	SE	3\$5:"PH":	Descrição	Classe	30/09/2023	31/10/2023	30/11/2023	31/12/2023	31/01/2024	29/02/2024	31/03/2024	30/04/2024	31/05/2024	30/06/2024	31/07/2024	31/08/2024	30/09/2024
	-	VALE3 <xbsp></xbsp>	Vale	ON	14,678	15,448	14,846	14.16	13,058	12,832	11.818	12,602	13,842	13,526	12,907	11,334	11,065
	1	TUB4 <xbsp></xbsp>	ItauUnibanco	PN	6,406	6,509	6,884	7,126	7,224	7,434	7,697	7,14	7,273	7.54	7,593	7,28	7,492
	F	PETR4 <xbsp></xbsp>	Petrobras	PN	7,76	8,023	7,446	7,432	8,482	8,366	7,897	9,103	8,763	8,532	8,081	7,77	7,434
	F	PETR3 <xbsp></xbsp>	Petrobras	ON	4,806	4,947	4,426	4,054	4,607	4,477	4,217	4,997	4,33	4,264	4,13	4,683	4,513
	E	BAS3 <xbsp></xbsp>	Brasil	ON	3,289	3,474	3,502	3,44	3,683	3,752	3,725	3,697	3,813	3,728	3,569	3,56	3,652
	В	BDC4 <xbsp></xbsp>	Bradesco	PN	3,611	3,641	3,802	3,844	3,628	3,23	3,397	3,418	3,219	3,122	3,02	3,574	3,605
	1	ELET3 <xbsp></xbsp>	Eletrobras	ON	3,584	3,49	3,675	3,673	3,711	3,932	3,823	3,557	3,348	3,424	3,641	3,31	3,347
	v	VEGE3 <xbsp></xbsp>	Weg	ON	2,636	2,473	2,3	2,39	2,2	2,481	2,62	2,78	2,753	3,067	3,552	3,061	3,054
	E	B3SA3 <xbsp></xbsp>	B3	ON	3,433	3,197	3,439	3,54	3,368	3,281	3,109	2,868	2,966	2,817	2,876	3,113	3,008
	5	SBSP3 <xbsp></xbsp>	Sabesp	ON	1,018	1,003	1,043	1,12	1,231	1,228	1,333	1,304	1,242	1,252	2,219	2,884	2,913
		ITSA4 <xbsp></xbsp>	Itausa	PN	2,308	2,271	2,411	2,435	2,467	2,521	2,611	2,437	2,671	2,681	2,675	2,682	2,781
	1	ABEV3 <xbsp></xbsp>	Ambev S/A	ON	2,826	2,858	2,731	2,637	2,639	2,523	2,541	2,533	2,513	2,462	2,407	2,517	2,578
	В	PAC11 <xbsp></xbsp>	Btgp Banco	UNT	1,754	1,722	1,856	1,892	1,903	1,911	1,94	1,823	1,798	1,746	1,775	2,039	2,004
	E	EQTL3 <xbsp></xbsp>	Equatorial	ON	1,723	1,751	1,694	1,71	1,782	1,709	1,651	1,59	1,671	1,741	1,784	1,896	1,921
	F	RENT3 <xbsp></xbsp>	Localiza	ON	2,449	2,193	2,324	2,372	2,12	2,064	2,16	1,985	1,806	1,78	1,79	1,802	1,863
	R	DOR3 <xbsp></xbsp>	Rede D Or	ON	1,456	1,277	1,411	1,468	1,456	1,35	1,369	1,441	1,555	1,522	1,494	1,629	1,732
		JBSS3 <xbsp></xbsp>	JBS	ON	1,005	1,15	1,196	1,235	1,221	1,195	1,13	1,262	1,619	1,798	1,811	1,781	1,727
	E	MBR3 <xbsp></xbsp>	Embraer	ON	0,621	0,653	0,717	0,719	0,768	0,819	1,133	1,163	1,317	1,304	1,522	1,532	1,646
	S	SUZB3 <xbsp></xbsp>	Suzano S.A.	ON	1,82	1,782	1,669	1,662	1,62	1,758	2,024	1,896	1,6	1,859	1,692	1,545	1,564
	F	RADL3 <xbsp></xbsp>	RaiaDrogasil	ON	1,712	1,649	1,611	1,639	1,482	1,551	1,616	1,548	1,588	1,614	1,671	1,571	1,553
	1	PRIO3 <xbsp></xbsp>	Petrorio	ON	1.842	1,926	1,665	1,61	1,614	1,596	1.805	1,822	1.655	1,728	1,827	1,667	1,528

Filling in the formula arguments:



TICKER

In the "Ticker" field you must enter the code of the asset you're interested in.

For assets not listed on the stock exchange (mutual funds, etc.), enter the same code used in the proprietary interface of the Economatica system.

DATA TYPE

Fill in this field with "PH" (portfolio holdings) to obtain the composition of the investment portfolio of a Fund or a Hypothetical Portfolio on various dates.

RANGE END DATE

Use this field to specify the end date of the desired date range. The options are:

- yyyy/mm/dd
- Latest: The end of the date range will be the date for which the most recent information is available.
- Last Fully Disclosed: The end of the date range will be the date for which the most recent "open" portfolio is available, that is, the most recent portfolio that does not have investments in "Undisclosed Securities".

RANGE START DATE

Use this field to specify the start date of the desired date range. The options are:

- yyyy/mm/dd
- 6m (meaning 6 months before the date defined in the Range End Date field), 3m, 2y, 5y etc.

CURRENCY

This field allows you to convert the data to other currencies.

For investment portfolios (Data Type=PH in the situation where the percentage weight of each asset is being presented and not its financial value): This field must not be filled in. The currency setting will have no effect on the percentage weights.

CONOMATICA

For investment portfolios (Data Type=PH in the situation where the financial value of each asset is being presented and not its percentage weight): The financial value of each asset will be converted to the chosen currency. The options are:

- USD
- EUR
- Inflation adjusted

MULTIPLIER

Use this field to choose the unit in which the data should be presented (thousands, etc.).

For investment portfolio (**Data Type=PH** in the situation where the **percentage weight** of each asset is being presented and not its financial value): The percentage value of each asset will be converted according to the options below:

- Leave the field empty: the percentage weights of each asset will be displayed (Ex. 12.7)
- Decimal: these same values will be displayed but divided by 100 (Ex. 0.127). This feature is useful to allow the user to format cells in Excel according to their preference (add "%" symbol, etc.)

For investment portfolio (Data Type=PH in the situation where the financial value of each asset is being presented and not its percentage weight): The financial value of each asset will be converted to the chosen unit. The options are:

- Units (sem multiplicador)
- Thousands
- Million
- Billion



OPTIONALS

OPTIONALS | ECO-SECURITIES

Filtering by text attributes

• The asset classifications in the system, such as sector classification, Anbima classification of funds, Fund Manager and others can be used to filter the list of assets generated by the Eco-securities formula, examples follow:

Ex.1: "Sector Economatica=Construction" Ex.2: "Sector Economatica=Construction,Telecommunication" Ex.3: "Anbima classification=Multimercados balanceados" Ex.4: "Fund manager=JP Morgan"

 Filters in the OPTIONALS field can use operators other than equality (=) and inequality (<>)

Ex.1: Company name CONTAINS the word "Health": "name~health"

Ex. 2: Company name DOES NOT CONTAIN the word "Health": "name!~health"

Ex. 3: The ISIN code of the action is available, that is, the value of this field is NOT NULL: "ISIN<>null"

Filter stocks that participate in each index

In this case, the filter will use the attribute "Portfolio composition > Indices > Index portfolio composition", whose code is "Index comp". This attribute, however, requires that, through its OPTIONALS field, the desired index code be entered.

EX.: Index comp[OPTIONALS="AmountInvestedBy=IBOV<XBSP>"]>0

Filtering by numeric attributes

• Filter for shares of companies with Total Assets exceed 10.000.000.000

"Total assets>1000000000"

When executing the filter above, the system will take the default values assigned to Total Assets, that is, the value of each company's most recent financial statement will be considered [DATE=LATEST] and its value will be expressed in the currency in which the statement was originally reported [CURRENCY=ORIGINAL CURRENCY].

You can, however, change these parameters as explained below:

Ex. 1: Reference the value of Total Assets from the statement of 12/31/2018: "Total Assets[DATE=2018-12-31]>10000000000.

Ex. 2: Take the value of Total Assets in Euros: "Total Assets[CURRENCY=EUR]>1000000000.

Ex. 3: Take the value of Total Assets from the statement of 12/31/2018 in Euros: "Total Assets[DATE=2018-12-31,CURRENCY=EUR]>1000000000

Filter For Average Volume

You can build filters with specific dates and period parameters as follows in the example and figure below:

Average volume filter > 10,000,000 based on the accumulated volume over a period of 1 month, considering the end date of the period on 12-09-2024:

Hist Average[DATE=2024-09-12,Attribute`s period=1M,Optionals={"std.tec.cals=7"}]>10000000

EXAMPLE OF USE:

SC	MA	✓ : >	$\langle \checkmark f_x \lor =$ "	list Average[DA]	[E="&E2&",Attribut	ce`s period="&D4&",	,Optionals="&D5&"]>	"&D3
	А	В	С	D	E	F	G	н
1								
2			Dta. Últ. Cot.:	12/09/2024	2024-09-12			
3			Volume >:	10.000.000,00				
4			Périodo:	1M				
5			Opcional:	{"std.tec.cals=7"}				
6								
7			Filtros:					
8			="Hist Average	DATE="&E2&",Attri	bute`s period="&D4&"	',Optionals="&D5&"]>"&	2D3	
0								



OPTIONALS | ECONOMATICA

Some attributes will require the Optionals field to be filled out.

Composition of the index portfolio (mandatory optional)

Searches for information on the weight of assets in the index that will be determined in the Optionals field. The optional indicates the index for which the weight of the shares will be observed:

Index comp[OPTIONALS="AmountInvestedBy=IBOV<XBSP>"]>0

 Amount invested by fund in each asset (mandatory optional)
 Searches for the allocation weight of funds in the asset/asset class determined in the Optionals field.

Ex.1: Amount invested in shares (Asset Class = STOCKS) of Microsoft (MSFT)

Amountinvestedin=MSFTAssetclass=STOCKS Ex.2: Value Invested by a fund in shares of other funds of the same Management Company

AmountInvestedInFundsOfTheSame = Fund manager

Other optional

 Price adjustment: allows the adjustment of prices by corporate actions.

Adjusted by corporate actions: AdjustByCorporateActions=Yes (default) Do not adjust by corporate actions: AdjustByCorporateActions=No

Adjusted, but without dividend adjustment: AdjustByCorporateActions=YesExceptForCashDividend

Some options cannot be derived intuitively, and it is recommended to obtain their formula by copying directly from the Economatica system as shown in the following example:

Optional average

volume Opcional:

std.tec.cals=7

Formula:

=ECONOMATICA("PETR4";"HIST AVERAGE";"1M";"LATEST";;;;"THOUSANDS";;;" AVERAGE VOLUME 1M (in thousands)";{"std.tec.cals=7"})

В	С	D	E	F	G	Н	1	J	K	L	M	N	0	P	Q	R	S	Т	U	V
	Volume médio										2ºCole a fórmu	la no Excel e ide	ntifique	o opcional:						
TR4	R\$ 1.399.920											Nome	Classe	"D-0";;;"ORIGINAL CURRENCY";"THOUSAN "false";"true";;{"std.tec. 7"})	IDS"; .cals=					
3.	5										TTEN3 <xbsp></xbsp>	3tentos	ON	13757	7,36539					
10	Construa a informaç	ão no sis	stema web	e solicite a e	xporta	ção da fórm	ala confor	me imagen	n:		QVQP3 <xbsp></xbsp>	524 Particip	ON							
_								1			ABCB4 <xbsp></xbsp>	Abc Brasil	PN	19324	4,30844					
ie		Classe	Código	Mei	dia						EALT3 <xbsp></xbsp>	Aco Altona	ON	Argumentos da função						?
				nulos = do volum	= 0 ນອລິ						EALT4 <xbsp></xbsp>	Aco Altona	PN							
				em 1 mes	es 🤇						AERI3 <xbsp></xbsp>	Aeris	ON	ECONOMATICA			-			
				(de 14Ago até 13Set2	24 00						AESB3 <xbsp></xbsp>	AES Brasil	ON	Multiplier	THOUSANDS'	1	t = 'TH	OUSANDS"		
				Em moeda orig							AESO3 <xbsp></xbsp>	Aesoperacoes	ON	Show Dates	'false'	3	t = 'fal	se"		
	2000			en nunar		Altorar narân	atrac daets	eoluno		1	AFLT3 <xbsp></xbsp>	Afluente T	ON	Show Header	'true'	1	= 'tru	ie"		
1	tentos	ON	TIEN3	13.4	5/	Ponotir octo		i colulia Loutroe norŝ	motroe		GRAO3 <xbsp></xbsp>	Agribrasil	ON	Customized Header		3	b =			
-	24 Particip		QVQP3	-		Kepetil esta	, oluna com	roduos para	Ineuos		AGXY3 <xbsp></xbsp>	Agrogalaxy	ON	Optionals (Estd.tec.cals=73		= ('st	d.tec.cals=7")		
4	IDC Brasil	PN	ABCB4	19.3	24	inserir coluna	i a esquerd	la desta	lins		RPAD3 <xbsp></xbsp>	Alfa Holding	ON			1				
	.co Altona		EAL13			Ocultar colun					RPAD5 <xbsp></xbsp>	Alfa Holding	PNA	Economatica Eurotion			= VV;	aiting for click	c on wizard	sk butto
		PN	EAL14		43	Apagar colun			Del		RPAD6 <xbsp></xbsp>	Alfa Holding	PNB							-
	eris Fo Dravil	ON	AERIJ	5.0	88	Craccanta					APTI3 <xbsp></xbsp>	Aliperti	ON		Multiplier The c	options are 'UNI outes like 'RETUI	RN", "VOLA	TILITY", etc cor	me from Eco	nomatic
<u>;</u>	Eo Brasil	ON	AESB3	39.7	84	Deerseente					APTI4 <xbsp></xbsp>	Aliperti	PN		perce	entage, to divide	them by 1	00 use option	"DECIMAL")	
	esuperacues Augete T		AESU3			Decresceme					FRRN3B <xbsp></xbsp>	All Norte	ON							
	ardente i	ON	AFLIS OBtog	_		Inserir filtro b	aseado nes	sta coluna			FRRN5B <xbsp></xbsp>	All Norte	PNA	Resultado da formula = W	aiting for click on	wizard ok butto	n to calcul	ate.		
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There are options in which the requested formula will be very specific, contact our support for further



clarification.





ECODATASET | OPTIONALS

Investment portfolios (Data Type=PH)

- presentation=\$: The financial values of each asset will be presented (and not its percentage weight, which is the default alternative).
- **consolidate=yes**: If the fund has investments in other funds (FOFs), all subfunds will be "open" and all assets will be consolidated.
- interval=D (ou W, M, Q, Y): By default, the Ecodataset function presents the composition of the portfolio at the end of each month. By filling in the Optionals field in this way, the composition of the portfolio will be presented day by day (or in the period chosen by the user).

Hypothetical portfolio

It is possible to present the contribution of each asset to the total return of a Hypothetical Portfolio (portfolios created by the user through the Ecoportfolio function) within a period chosen by the user.

- presentation=contribution: Identifies how much each asset in the portfolio contributed to the total return of the portfolio in each period.
- **contributionperiod=1m:** Defines the period in which the contribution will be calculated.

In the example above, the period chosen was one month, but all of the options below can be used:

- 1m, 1d, 21d, 52w, 5y etc.
- YTD (year to date), QTD, MTD, WTD.
- from start (from the beginning of the hypothetical portfolio price series).
- yyyy-mm-dd (since a specific date).
- Formatting: The Optionals field must be filled in with the two commands below (separated by semicolons): presentation=contribution;contributionperiod=1 m

C	D		E	F		G		Н	1		J		К	L		М	N		0
FUNDO 010431		_	Opcionais>	INTERVAL=Q presentation=\$															
F3) Descrição			Classe	Tipo de investimento	3	31/03/2022	30	/06/2022	30/09/	2022	31/12/20	22	31/03/2023	30/06/	2023	30/09/2023	31/12/20	23 3	31/03/2024
Títulos não revelados				Cotas de fundos														R\$	6.287.693
Títulos não revelados				Operações compromissadas														R\$	17.113
Valores a pagar				Valores a pagar	-R	\$ 237.685	-R\$	12.347	-R\$ 1	1.202	-R\$ 11.0	71 -R	\$ 10.376	-R\$ 9	719	-R\$ 9.307	-R\$ 9.78	0 R\$	11.223
Disponibilidades				Disponibilidades	R	\$ 10	R\$	10	R\$	10	R\$:	10 F	\$ 10	R\$	10	R\$ 10	R\$ 1	0 R\$	10
Valores a receber	Annune and a firm of	-		2 ×	R	\$ 21.008	R\$	172	R\$	14	R\$ 38.0	01 R	\$ 397	R\$	29	R\$ 14	R\$	1 R\$	0
Cosan S/A / Cod: Czz / Tipo: Outro	Argumentos da funça	10		r A	RS	\$ 79.052													
597570 <bran -="" cougar="" dynamo="" fia<="" master="" td=""><td>ECODATASET</td><td></td><td></td><td></td><td>R</td><td>\$ 7.194.842</td><td>R\$</td><td>5.365.993</td><td>R\$ 6.05</td><td>52.192</td><td>R\$ 5.701.0</td><td>26 P</td><td>\$ 5.082.643</td><td>R\$ 6.011</td><td>104</td><td>R\$ 5.789.468</td><td>R\$ 6.333.12</td><td>3</td><td></td></bran>	ECODATASET				R	\$ 7.194.842	R\$	5.365.993	R\$ 6.05	52.192	R\$ 5.701.0	26 P	\$ 5.082.643	R\$ 6.011	104	R\$ 5.789.468	R\$ 6.333.12	3	
BRSTNCLF1R¢LFT 210100	Range end date	'last fully disclosed'	🛨 😑 "last fully	disclosed"			R\$	20.319											
Loma Negra Cia Ind Spon / Cod: I	Range start date	'24M'	★ = "24M"		R	\$ 9.920													
BRSTNCLTN7 LTN 100000	Currency		† =		R	\$ 6.482					R\$ 8.2	01							
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Mercadolibre Inc / Cod: Meli Us /	1 Optionals	F2:F3	1 = {'INTERV	AL=Q';"presentation=\$"} 🗸 🗸	R	\$ 134.428													
BRSTNCNTB0 NTN-B 760199			= "Waiting	for click on wizard ok buttoi								P	\$ 11.535						
BRSTNCNTB3 NTN-B 760199	EcoDataSet Function.															R\$ 24.053			
BRSTNCNTB0 NTN-B 760199	_	Range end date Choose t	he end date of the range	to be shown. The options are							8						R\$ 18.79	1	
Total	-	you can a	-DD" and "LATEST". When iso use "LAST FULLY DISC	n retrieving Portfolio Holdings data LOSED" (=last open portfolio).	RS	\$ 7.208.057	R\$	5.374.147	R\$ 6.05	54.273	R\$ 5.736.1	66 R	\$ 5.084.208	R\$ 6.022	.839	R\$ 5.804.238	R\$ 6.342.14	4 R\$	6.316.039
Total Investido + Caixa (em milha	erd ok button to rakulat		R	\$ 7.208.057	RŚ	5.374.147	R\$ 6.05	4.273	R\$ 5.736.1	56 P	\$ 5.084.208	R\$ 6.022	839	R\$ 5.804.238	R\$ 6.342.14	4 RŚ	6.293.593		
PL (em milhares)	Resultado da fornidia	 waiting for thick on wize 	and ok button to calculate		R	\$ 7 208 057	RŚ	5 374 147	R\$ 6.05	4 273	R\$ 5 736 1	56 R	\$ 5 084 208	R\$ 6.022	839	R\$ 5 804 238	R\$ 6 342 14	4 R\$	6 293 593
	Aiuda sobre esta func	io		OK Cancelar										SIGLE					
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