

FLOW BREAKDOWN

DATAWISE Dashboard

01/12/2021

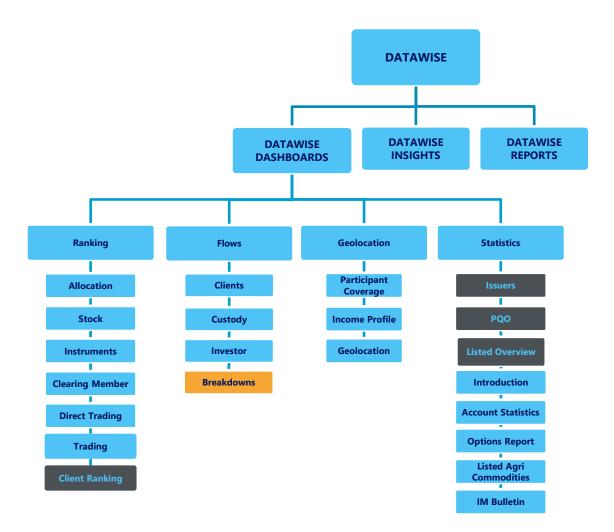
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1 PRODUCT DESCRIPTION WITHIN THE DATAWISE SERVICE



The DATAWISE product was created by B3 with the aim of helping its clients in strategic decisions consolidating various reliable and/or sensitive data in the form of interactive dashboards (DATAWISE Dashboard and DATAWISE Insights) and reports (DATAWISE Reports). It should be noted that as stated in the Commercial Policy, the DATAWISE service does not allow the distribution or redistribution of data.

Each of these modules can be contracted separately as well as their products (individual dashboards and reports), according to the client's intention. Through the interactive panels it's possible analyze the behavior of stocks



(BOVESPA), derivatives and stock futures (BMF) and rental of stocks (BTB) with DATAWISE Dashboards or analyze individual investors' behavior with DATAWISE Insights. Already in DATAWISE Reports you can analyze trading and post-trade asset data, mainly from the OTC market thought reports with raw data (Data Report) or worked reports (Market Report).

In this manual we will show the Flow Breakdown dashboard layout, data and filters contained in the DATAWISE Dashboard module.

2 DESCRIPTION OF FLOW BREAKDOWN DASHBOARD

The Flow Breakdown dashboard, which is available in the Bovespa, BM&F and BTB view, allows users to assess the breakdown between buy and sell trades for different period intervals. The available selection brings the assessment divided into Monthly, Annual and Free.

Furthermore, there is an overview showing the accumulated traded volume over time, considering the differences between buy and sell trades (balance) and the total volume.

In these views users will have a chart with some additional data. In the breakdown, they will be able to follow up on the largest trades divided by Brazilian and nonresident investors. In the overview, there will be a chart with the total volume of buy and sell trades and their balance.

3 BUY AND SELL BREAKDOWN DASHBOARD – MONTHLY SELECTION

This dashboard details the financial volume of buy and sell trades ranked by investor type.

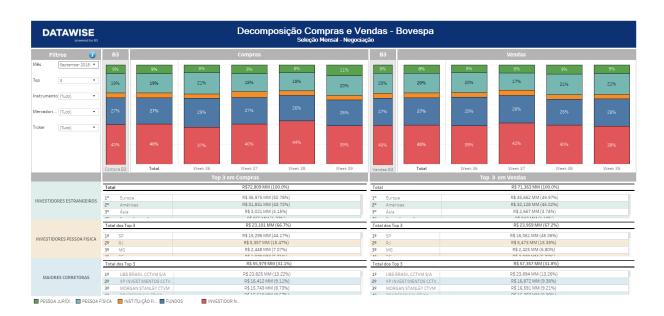
It presents the largest trades by three main groups: Non-Resident Investors, Individual Investors and Largest Brokerage Houses.

INFORMAÇÃO INTERNA – INTERNAL INFORMATION



It also presents data by location, namely, continental (for non-resident investors) and state (for individual investors).

Volumes are aggregated by monthly period.



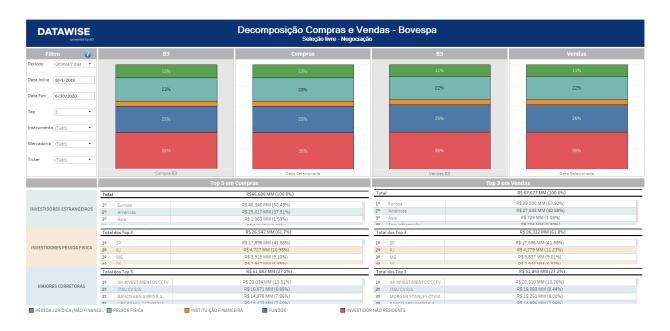
DATAWISE				Decomp	OSIÇÃO CO Seleção Me	mpras e Ve nsal - Futuros em		ovespa				
Filtros 🥡	B3			Compras			В3			Vendas		
s September 2018 V	52%	57%	57%	58%	58%	57%	26%	29%	30%	30%	29%	28%
nstru FUTURD •												
(Tudo)	43%	39%	40%	39%	39%	40%	67%	67%	67%	66%	67%	67%
	Compra B	3 Total	Week 36	Week 37	Week 38	Week 39	Vendas B3	Total	Week 36	Week 37	Week 38	Week 39
			Тор З	8 em Compras			_		Тор	3 em Vendas		
	Total			R\$ 413,807 MM (100.0%)			Total R\$ 210,499 MM (100.0%)			(100.0%)		
ESTIDORES ESTRANGEIROS		uropa		R\$ 285,058 MM (68.89%)			1º Europa R\$137,282 MM (65.22%)					
Londoneo Londardendo	2° A	méricas		R\$ 121,876 MI	R\$121,876 MM (29.45%)			2° Américas R\$ 67,326 MM (31.98%) 3° Sem informação R\$ 5,818 MM (2.76%)				
							3* Sem informação R3 5,010 MIM (2.7076)					
	Total dos	Total dos Top 3 R\$ 6,011 MM (88.3%)						Total dos Top 3 R\$ 8,232 MM (88.9%)				
	1º 5	ÃO PAULO		R\$ 5,086 MM (74.68%)			1° SÃO PAULO			R\$ 6.433 MM (69.51%)		
ESTIDORES PESSOA FISICA		IO DE JANEIRO		R\$ 684 MM (1				JANEIRO		R\$ 1,275 MM (1		
	3º R	IO GRANDE DO SUL		R\$ 240 MM (3	1.53%)		3° MINAS GERAIS R\$ 523 MM (5.65%)					
	10 C	am informação		D\$ 204 MM (3	9996)		A9 Saminformacian D\$ 245 MM (2 72%)					
	Total dos	Top 3		R\$ 420,210 M	M (58.2%)		Total dos Top	3		R\$ 426,094 MM	1 (59.0%)	
	10 17	TAU CV S/A		R\$ 221,303 MM	(30.66%)		19 ITAU CV S/A R\$ 229,672 MM (31.82		(31.82%)			
MAIORES CORRETORAS	2° B	ANCO J.P.MORGAN S/A		R\$ 128,457 MM	(17.80%)		2º BRADE	SCO S/A CTVM		R\$ 124,833 MM	(17.29%)	
		IORGAN STANLEY CTVM		R\$ 70,450 MM			3º BANCO	BTG PACTUAL S/A		R\$ 71,589 MM		
	/0 R	PADESCO S/A CTVM		P\$ 51 123 MM	(7.08%)		49 GOLDMAN SACHS DO R D\$ 65 935 MM (9 27%)					

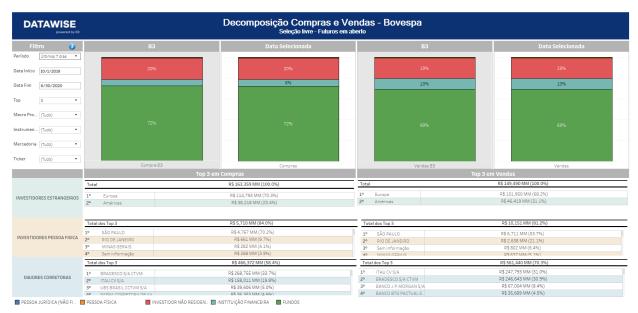


4 BUY AND SELL BREAKDOWN DASHBOARD – FREE SELECTION

The dashboard presents in detail the financial volume of buy and sell trades ranked by investor type.

Volumes are aggregated by the user's period of choice.







5 BUY AND SELL BREAKDOWN DASHBOARD – ANNUAL SELECTION

This dashboard presents in detail the financial volume of buy and sell trades ranked by investor type.

Volumes are aggregated by the user's period of choice.

DATAWISE Dewered by B3												
Filtros 🚺	B3			Compras			B3			Vendas		
o 2018 *	9%	9%		9%	8%	10%	8%	8%		9%	8%	10%
3 *	18%	18%	18%	17%	19%	18%	18%	18%	18%	16%	19%	1896
rrumento (Tudo) •			29%	29%			29%	29%	28%	28%	29%	
er (Tudo) *	29%	29%		25%	28%	29%					25%	29%
	39%	39%	42%	40%	39%	37%	40%	40%	43%	42%	38%	38%
	Compra B3	Total	Q1	Q2	Q3	Q4	Vendas B3	Total	Q1	Q2	Q3	Q4
			Тор :	3 em Compras					Тор	3 em Vendas		
	Total R\$1,160,409 MM (100.0%)						Total R\$ 1,188,129 MM (100.0%) 1° Europa R\$ 604,158 MM (50.85%)					
ESTIDORES ESTRANGEIROS	1º Europ 2º Améri			R\$ 599,770 MM R\$ 508,045 MM			1º Europa R\$ 604,158 MM (50.85%) 2º Américas R\$ 539,602 MM (45,42%)					
	3º Ásia	icas			R\$ 506,045 MM (45.76%) R\$ 44,261 MM (3.81%)			2° Americas R\$ 35,002 MM (45,4256) 3° Ásia R\$ 34,167 MM (2,88%)				
	4º Sem informação R\$7,861 MM (0.68%)						4° Sem informação R\$ 9,797 MM (0.82%)					
	Total dos To	1		R\$ 356,560 M	IM (68.2%)		Total dos Top 3 R\$ 353,520 MM (68.5%)					
	19 SP	<i>p</i> 5		R\$ 230,767 MM							()	
ESTIDORES PESSOA FISICA	29 RJ			R\$ 89.509 MM			18 SP R\$ 230,822 MM (44.74%) 28 RJ R\$ 88,323 MM (17.12%)					
	39 MG			R\$ 36.284 MM			39 MG R\$34,375 MM (6,66%)					
	49 RS						4º RS R\$ 29,953 MM (5.81%)					
	Total dos To	ap 3		R\$ 925,671 M	MM (31.5%)		Total dos Top 3	3		R\$ 934,086 M	1M (31.8%)	
	19 UBS	BRASIL CCTVM S/A		R\$ 365,287 MI	A (12.42%)		18 UBS BRA	ASIL CCTVM S/A		R\$ 366.310 MN	1(12.45%)	
MAIORES CORRETORAS		GAN STANLEY CTVM		R\$ 287,020 M				N STANLEY CTVM		R\$ 298,678 MN		
		DESCO S/A CTVM		R\$ 273,365 M				STIMENTOS CCTV		R\$ 269,098 MI		
	49 XP IN	VESTIMENTOS CCTV.		R\$ 267,670 M	M (9.10%)		49 BRADES	CO S/A CTVM		R\$ 262,428 MI	VI (8.92%)	

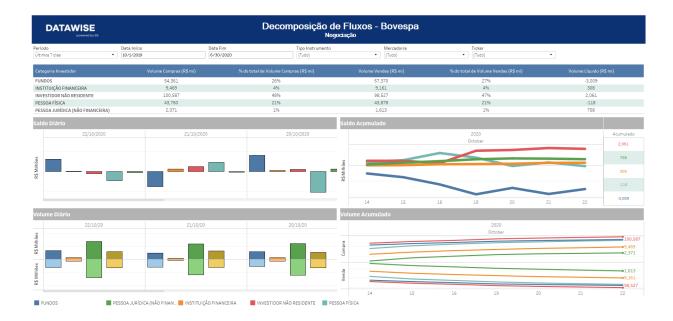
	Filtros	🚺 BS	3	Соп	ipras		B3		Ver	ıdas		
10	2018	•										
	3	•				25%			27%	2796		
		359	6 35%	4196	46%		36%	36%			44%	
ro Pro	(Tudo)	•										
trumen	(Tudo)											
	(1000)											
ercadoria	(Tudo)	•										
		599	6 59%	5496		69%	57%	57%	68%	66%		
(er	(Tudo)	•		5475	48%						49%	
_		Compr	a B3 Total	Q2	Q3	Q4	Vendas B3	Total	Q2	Q3	Q4	
				Top 3 em Com					Top 3 em Ven			
		Total			1,936,857 MM (100.0%)		Total			010,613 MM (100.0%)		
	INVESTIDORES ESTRANGEIROS	10	Europa		R\$ 1,437,473 MM (74.22%) R\$ 447,910 MM (23.13%)			1º Europa 2º Américas		R\$ 1,284,602 MM (63.89%) R\$ 708,835 MM (35.25%)		
		2º 3º	Américas Sem informação		\$ 447,910 MM (23.13%) \$ 29,561 MM (1.53%)		2º Americas 3º Sem informação			R\$ 16,781 MM (0.83%)		
		3-	Seminrormação		(\$ 25,501 Mill (1.55%)		3- Semini	ormaçao		10,701 Mill (0.0370)		
		Total	dos Top 3	R\$	63,545 MM (89.4%)		Total dos Top	3	R\$	66,659 MM (90.2%)		
		10	SÃO PAULO	RŚ	R\$ 51,716 MM (72,77%)			1º SÃO PAULO		R\$ 52,331 MM (70.78%)		
	INVESTIDORES PESSOA FISICA	2°	RIO DE JANEIRO	R	R\$ 9,931 MM (13.97%)			2º RIO DE JANEIRO		R\$11,157 MM (15.09%)		
		3°	RIO GRANDE DO SUL		R\$ 1,897 MM (2.67%)			SERAIS		3,171 MM (4.29%)		
			Saminformação		P\$ 1 882 MM (2 65%)			ormação		2,693 MM (3.64%)		
		Total	dos Top 3		R\$ 2,739,703 MM (49.3%)			Total dos Top 3		,095,624 MM (55.7%)		
		10	ITAU CV S/A		R\$ 1,746,656 MM (31.45%)			V S/A	R\$ 1,	546,854 MM (27.85%)		
	MAIORES CORRETORAS	2°	BANCO J.P.MORGAN S/A		\$ 526,053 MM (9.47%)		2º BRADE	SCO S/A CTVM	R\$ 9	47,776 MM (17.06%)		
		3° 4°	BRADESCO S/A CTVM SAFRA CORRETORA DE VA.		\$ 466,994 MM (8.41%) \$ 448,390 MM (8.07%)			AN SACHS DO B	R\$ 6	00,994 MM (10.82%)		

6 GENERAL FLOW BREAKDOWN

The General Flow Breakdown dashboard presents in detail the financial volume of buy and sell trades ranked by investor type with balance analysis and accrued volume in a historical series.

The first dashboard shows the segregation of the total financial volume, buy, sell and the balance representing the net volume.

It also shows the daily balance by investor category: Funds, Financial Institution, Non-Resident Investor, Individual Investor and Corporate Investor, besides the accrued volume and balance for the selected period.





7 FILTERS

7.1 Year

Ano 2018 •

Choose the years available in the database. If the chosen year is the current year, the dashboard will load up to the period the data are available.

7.2 Month

Choose the month of a year available in the database. If the chosen month is the current data, the dashboard will load up to the day with available data.

7.3 Period

Período	Últimos 7 dias	•	Data Início	10/1/2019	Data Fim	6/30/2020

This filter allows users to choose between the periods of the last 7 days, 30 days or "Date Selection", which will be established by Start Date and End Date. In this case, it is possible to select the entire database available (from August 2017) up to T-2. Or select a single specific day to understand that day in greater detail, using the other filters to achieve greater data granularity.

7.4 Top Level

Тор	3	•
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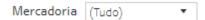
It is possible to select the most traded top level, which will reflect the volume at the top of each ranking.

7.5 Macro Product (Only for Futures and Derivatives)



Provides users with specific contract macro product categories.

7.6 Commodity



This filter considers the initial letters of B3 instruments.

7.7 Instrument

Instrumento (Tudo) 🔹



Segregated by instrument type, considering cash, options, forward and futures contracts, among others.

7.8 Ticker

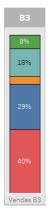
Ticker (Tudo)	Ŧ
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The most granular data level, it enables users to filter the contract using their full ticker.

8 METRICS

8.1 **B3 Buy and Sell Trades**





The columns on the left hand side, which are included in all breakdown dashboards between buy and sell trades, show B3's trade value total for that segment and market. It is interesting to use them as a parameter to compare the trading status of different audiences against specific contracts and assets. In doing so, users will be able to understand whether a given asset is more or less often traded by a certain investor type.

8.2 Top 5 Buy and Sell Trades



	Top 5 em Compras	
Total	R\$1,160,409 MM (100.0%)	
	Top 5 em Vendas	
Total	R\$ 1,188,129 MM (100.0%)	

When selecting the Top Level Filter, users will have the choice to assess the most traded volume in the highest ranked top 3, 5 or 10 when looking at the foreign investor, individual investor and largest brokerage house ranks.

8.3 Periods

Q1	Q2	Q3	Q4
Week 36	Week 37	Week 38	Week 39

When selecting the Top Level Filter, users will have the choice to assess the most traded volume in the highest ranked top 3, 5 or 10 when looking at the foreign investor, individual investor and largest brokerage house ranks.

9 SERVICE TEAMS

Take a major step and optimize your decision making. Explore our products. If you have any query, talk to our team.

