

MiFID II Transparency

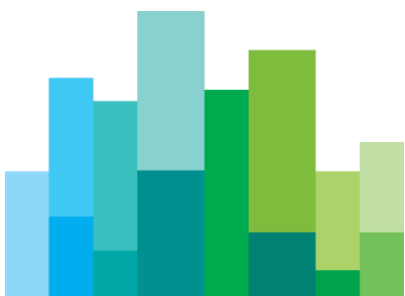
Report FY 2021



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1. Market data products in scope



Market data products in scope

A core business of Euronext Advanced Data Services is making available trading data, index data, reference data, alternative data and analytics to clients worldwide. Market participants subscribe to this information, or license it, for their own use, processing or further dissemination it (e.g. redistribution).

Real-Time Market Data is one of the business areas of Advanced Data Services, which is providing real-time transparency and distribution services for Euronext's trading venues (TVs) and approved publication arrangement (APA). As such, the real-time market data business area mainly involves the distribution of licenses for real-time trading data and index data. The most important products in this respect are trading data from our pan-European cash and derivatives markets.

MiFIR/MiFID applies to certain data products made available by Euronext. Figure 1 provides a list of all relevant products affected by the new transparency regime under MiFIR/MiFID, provided by Euronext.

Euronext Continental Cash (Consolidated Pack) ¹ , including: <ul style="list-style-type: none"> • Euronext Continental Equities¹ • Euronext Best of Book³ • Euronext Block² • Euronext ETFs and Funds¹ • Euronext Warrants and Certificates¹ • Euronext Fixed Income¹
Euronext Dublin Equities ¹
Oslo Børs Equities ¹
Euronext Equity and Index Derivatives ¹
Euronext Commodity Derivatives ¹
Euronext APA Trades ²
Euronext APA Quotes ³

Table Figure.1: Euronext Market Data Products subject to MiFIR/MiFID

More comprehensive information on real-time market data products and the respective licensing agreements including a fully transparent overview on pricing is available via our website: [euronext.com/en/data/market-data](https://www.euronext.com/en/data/market-data).

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¹ Pre-and post-trade data

² Post-trade data

³ Pre-trade data

Other market data products:

Article 89(2)(c)(iv) of Delegated Regulation (EU) No 2017/565 and Article 11(2)(c)(iv) of Delegated Regulation (EU) No 2017/567

Other market data products sold by Euronext that do not fall under the scope of MiFIR/MiFID include:

- Index Data (e.g. real-time index levels, index weightings)
- Corporate Actions and Notices
- Reference Data
- Euronext Dublin Bond and Fund Feed
- Master Files
- Historic Data
- Market Flow

2. Market data fees

Market data fees

Euronext discloses the price and other terms and conditions for the provision of the market data in a manner which is easily accessible.

Price list

Disclosure according to Art. 11 2 (a) of Commission Delegated Regulation (EU) 2017/567 and Art. 89 2 (a) of Commission Delegated Regulation (EU) 2017/565

The Information Product Fee Schedule provides a fully transparent overview of the fees applicable to the receipt, use and redistribution of Euronext market data. Other contractual terms and conditions for the provision of market data are outlined in the following Euronext's market data licensing agreements:

- Euronext Market Data Agreement (EMDA)
- Euronext Datafeed Subscriber Agreement (EDSA)

Euronext's market data licensing agreements, including the Information Product Fee Schedule, are available at connect2.euronext.com/data/market-data-agreements, open to everyone.

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Below a high-level summary of the fees offered by Euronext, as provided in the Information Product Fee Schedule.

- Direct Access Fees
- Real Time Standard Redistribution License Fees
- Real Time Non-Professional Redistribution License Fees
- Delayed Redistribution License Fees
- Real Time White Label Fees
- Delayed White Label Fees
- Public Display Fees
- Real Time Standard Display Fees
- Real time Natural Users Display Fees
- Non-Professional Fees
- Page View Fees
- Non-Display Use Fees
- CFD Use Fees
- CFD White Label Fees

Advance disclosure of price changes

Disclosure according to Art. 11 2 (b) of Commission Delegated Regulation (EU) 2017/567 and Art. 89 2 (b) of Commission Delegated Regulation (EU) 2017/565

Euronext applies advance disclosure with a minimum of 120 days' notice of future price changes by registered e-mail. Furthermore, Euronext will also make the announcement and updated Information Product Fee Schedule available at connect2.euronext.com/data/market-data-agreements which is open to everyone.

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Last price change

Disclosure according to Art. 11 2 (c) of Commission Delegated Regulation (EU) 2017/567 and Art. 89 2 (c) of Commission Delegated Regulation (EU) 2017/565

Euronext's last price change was disclosed with 120 days' prior written notice and will enter into force on: 1 January 2022.

3. Content of market data



Content of market data

Euronext's information on the content of the market data includes the average number of reported instruments, the average of daily turnover of instruments (ADT) and the average number of orders per trade (i.e the pre-trade and post-trade market data ratio) for its Trading Venues and APAs.

Euronext trading venues

Disclosure according to Art. 11 2 (c) of Commission Delegated Regulation (EU) 2017/567, and for the Disclosure according to Art. 89 2 (c) of Commission Delegated Regulation (EU) 2017/565

Period covered: **01/01/2021 – 31/12/2021**

[See table on next page]

CONTENT OF MARKET DATA

Market	Products	Number of Instruments ¹	Average Daily Turnover ² (in EUR)	Pre-/Post-Trade Ratio ³
Cash	Euronext Cash (Shares, ETFs, DRS, Certifications And Other Equities) ⁴	109,553	8,853,322,485	580.4
	Euronext Bonds ⁴	8,114	231,527,939	5,392.7
	ETCs ETNs	-	-	-
	SFPs	-	-	-
Derivatives⁴	Securities Derivatives Euronext Equity Options	-	-	-
	Interest Rate Derivatives	-	-	-
	Credit Derivatives	-	-	-
	Euronext Equity Derivatives ^{4,5}	137,110	15,600,069,357	4,936.2
	FX Derivatives	-	-	-
	Emission Allowances Derivatives	-	-	-
	Euronext Commodity Derivatives ⁴	5,565	1,155,259,154	6.7
	C10 Derivatives	-	-	-
CFDs	CFDs	-	-	-
Emission Allowances	Emission Allowances	-	-	-
APA	Euronext APA Trades	378	403,244,733,248	N/A
	Euronext APA Quotes	378	N/A	N/A

¹ Average number of reported instruments in 2021

² Average of daily total turnover (ADT) in 2021

³ Average number of orders per trade, trades double counted, rejected orders and cancellation orders are excluded

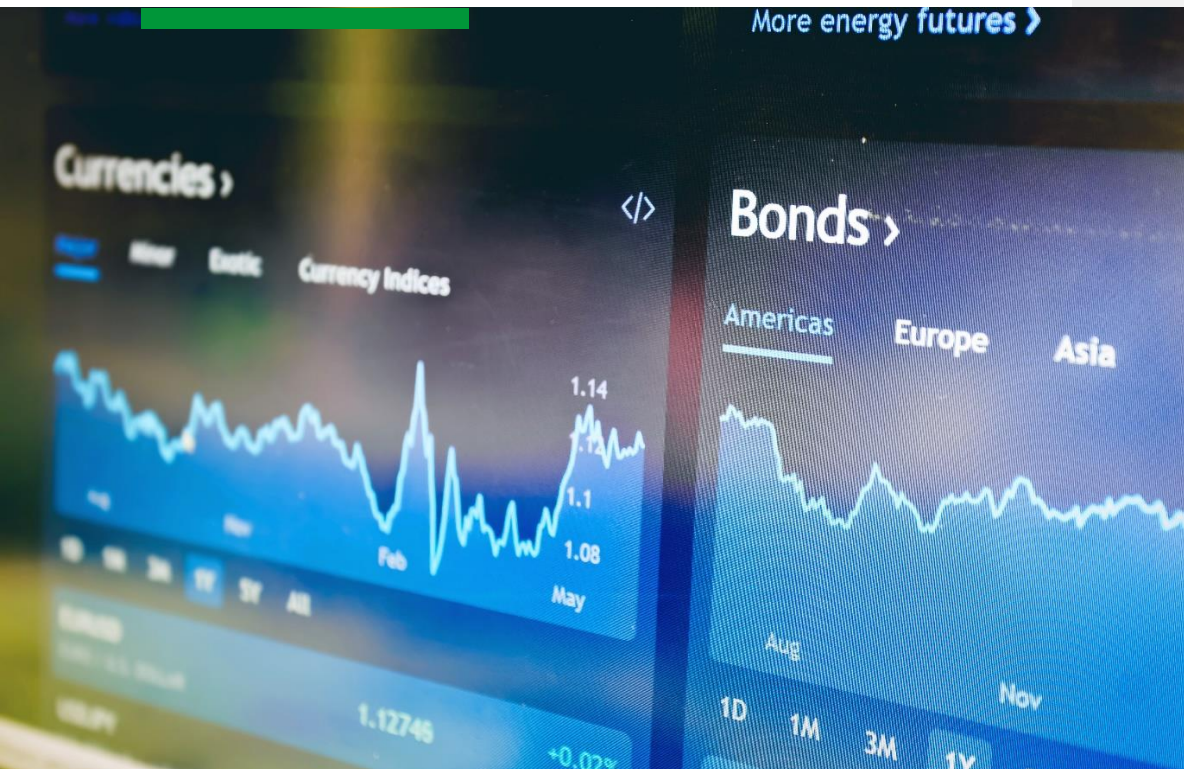
⁴ Including the markets of Euronext Amsterdam, Euronext Brussels, Euronext Dublin, Oslo Børs, Euronext Lisbon and Euronext Paris. Excluding Borsa Italiana.

⁵ Includes Euronext Equity Derivatives and Euronext Index Derivatives

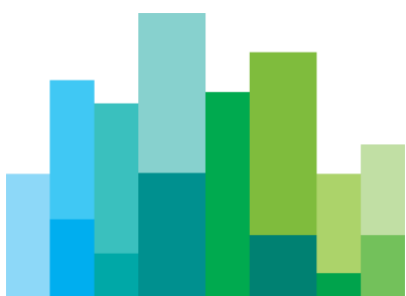
Borsa Italiana

Borsa Italiana information on the content of the market data includes the average number of reported instruments, the average of daily turnover of instruments (ADT) and the average number of orders per trade (i.e the pre-trade and post-trade market data ratio) can be found at: <https://www.borsaitaliana.it/borsaitaliana/information-services/pricing/pricing.en.htm>.

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4. Market data revenues



Market data revenues

Disclosure according to Art. 11 2 (d) of Commission Delegated Regulation (EU) 2017/567 and Art. 89 2 (d) of Commission Delegated Regulation (EU) 2017/565

Period covered: **01/01/2021 – 31/12/2021**

Operation Mic	Total Market Data Revenues ¹ (million EUR)	Market Data Revenues as a Proportion of Total Revenues ² (%)
Euronext Amsterdam: XAMS	28,758,476	16.76%
Euronext Brussels: XBRU	5,562,638	18.17%
Euronext Dublin: XDUB	5,220,821	12.55%
Euronext Lisbon: XLIS	1,551,797	15.99%
Euronext Oslo: XOSL	11,507,292	14.28%
Euronext Paris: XPAR	49,857,016	13.91%
Euronext APA: XAPA	247,934	47.86%

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¹ Total market data revenue per Operating Mic and only includes products traded on this Operating Mic. This number is rounded.

² Total market data revenue in % as a proportion of the total revenues of the Operating Mic. This number is rounded.

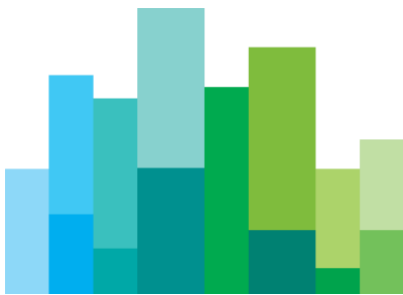
Borsa Italiana

The total Market data Revenues (Euro) and the Market Data Revenues as a Proportion of Total Revenues of Borsa Italiana can be found at:

<https://www.borsaitaliana.it/borsaitaliana/information-services/pricing/pricing.en.htm>.

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5. Cost allocation for market data



Cost allocation for market data

Disclosure according to Art. 11 2 (e) of Commission Delegated Regulation (EU) 2017/567 and Art. 89 2 (e) of Commission Delegated Regulation (EU) 2017/565

Real Time Market Data produces and disseminates the market data on behalf of the trading venues and APAs subject to MiFIR/MiFID requirements. Euronext acts as a producer and distributor of market data. Our real-time market data distribution is outsourced to ICE Data Services. The costs for each market data product consist of standard directly attributable costs and indirect costs.

Prices for the relevant data packages are generally being defined based on costs as laid out below, and the value of the data to various customer groups, including the content of the data and packages. Euronext aims to distribute costs fairly over various user groups.

Prices charged for the real-time market data provided by trading venues and approved publication arrangement belonging to Euronext are determined based on fair and reasonable terms to recover costs of producing and disseminating market data, including the control of licensed third parties, plus a reasonable margin.

Euronext operates as a single operating segment and does not allocate, for its own needs, revenues and costs according to the type of business activity. However, as part of MiFID II requirements, Euronext developed a methodology to allocate the costs of producing and disseminating Market Data:

- Costs that are directly attributable to the market data activity (and only to the market data activity) are fully allocated to market data
- Costs that are directly attributable to other revenue generating activities (and that do not contribute to market data revenues) are not allocated to Market Data
- Common costs (i.e. costs that are contributing to several revenue generating activities of which Market Data is one) are allocated based on allocation keys, which are based on revenues most of the time. As Euronext's operational efficiency relies on common resources and costs to support the various revenue generating activities and local exchanges, most of Euronext's expenses fall into this category.

As the establishment of a trading venue and the provision of market data are joint products, common costs sustained to deliver them should be considered as joint costs. By the very definition of joint products, one cannot say what it would cost to produce only one of the joint products, as it is unfeasible to produce only one of them. Therefore, whilst the allocation of joint costs on a revenue basis can be regarded as somewhat arbitrary, it is in practice typical to allocate common and joint costs this way. Allocating joint costs according to the revenues generated constitutes a common practice that is an efficient and economically sensible manner of allocating joint costs as well as an accepted practice from a competition law perspective.

Following the updated ESMA Guidelines, Euronext is currently reviewing the cost allocation methodology used in 2021 and how it compares to guideline 2 of the ESMA Guidelines on the MiFID II/MiFIR obligations on market data. We will update this document in Q3 2022 following the outcome of this review.



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