### **Borsa Italiana Optiq Migration**

Deep dive on Warrants & Certificates (Phase 2)



### FUNCTIONAL USER GROUP 31 May 2023

### **Speakers**



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Head of Euronext Retail Services



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Italy Securitised Derivatives Lead



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Head of Client Project Management





### Agenda

- **1.** Context reminder
- **2.** Trading Hours
- 3. Trading methods and phases
- 4. Order types and controls
- **5.** Bid-Only Liquidity Provider
- 6. Liquidity Provision
- 7. Migration Phase 2 operational/technical insights
- 8. Q&A

#### **Session's objectives:**

- Provide an overview of the future W&C model
- Detail some new critical functionalities that will be made available to Italian customers
- Enable dialogue with customers on the changes related to the W&C model within Euronext



#### **1. CONTEXT REMINDER**





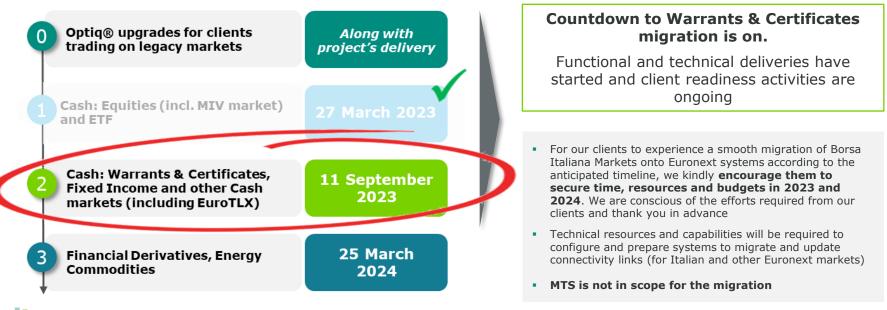
### **Context reminder**

Following Euronext's acquisition of Borsa Italiana in April 2021, Borsa Italiana's trading systems **are migrating from the Millennium Exchange and SOLA** systems to the Euronext Optiq<sup>®</sup> platform. The migration of Borsa Italiana to Optiq will allow its trading participants to benefit from existing features provided by the platform through improved connectivity and backward/forward compatible protocols, and an optimised messaging model

#### Migration timeline as currently anticipated

#### Phases

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#### **Overview of the major changes on Securitised Derivatives Markets**



SeDeX & Cert-X



2. EXTENDED TRADING HOURS

3. INCREASE THE CENTRAL ROLE OF THE LP



#### **2. TRADING HOURS**





## **Trading hours changes**

#### **Current Functioning**



#### **After Migration**



#### **<u>Cert-X</u>** No change expected on Cert-X markets remaining on 9:05 – 17:30

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## Activation of extended trading hours

On Go-Live date all instruments will be associated to standard hours: 9:05 – 17:30



Post-go live, Extended Trading Hours services will gradually be available to the W&C Italian markets in order to allow a stabilisation period and smooth ramp-up for clients (length of this transition will be communicated in due course)



Publication of a **BITA public announcement** to activate Extended Trading Hours with 15 days notice



After which, issuers can list new instruments or request to extend trading of existing products until the desired extended hour

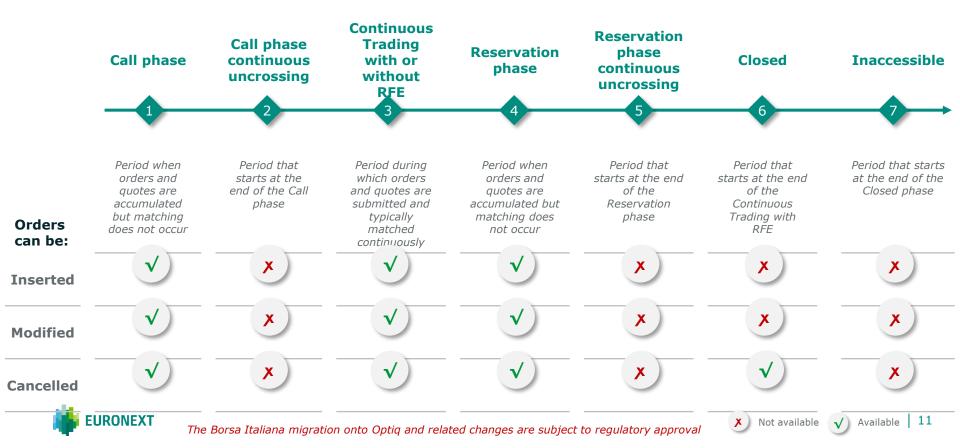


#### **3. TRADING METHODS AND PHASES**





Trading is organised with the following phases:



Trading is organised in the following phases:



Order & quote accumulation period, during which Optiq® records all orders and quotes entered but matching does not occur

During this phase:

The **Bid and Offer quotes** of the LP are **broadcast to the market** via the MarketUpdate message

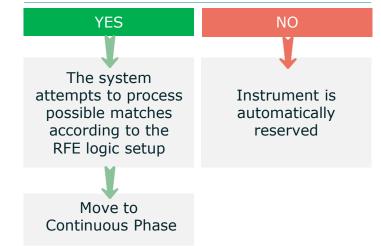
The **Bid and Offer orders** of other market participants are broadcast to the market via the MarketUpdate message

**No matching** of orders and/or quotes is possible during this phase

#### **Call Phase Continuous Uncrossing**

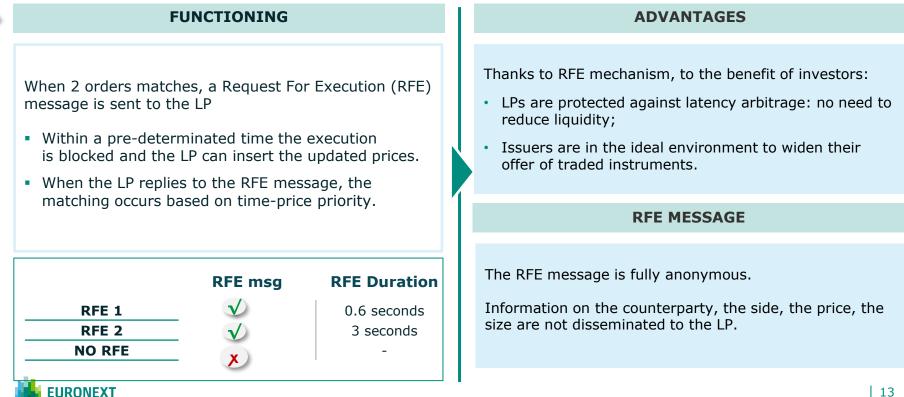
At the opening, 2 cases could occur:

#### LP Presence in the order book?



## **RFE MODEL in BRIEF**

SeDeX & Cert-X will benefit from Request For Execution (RFE) model which is already active on Euronext markets:



#### **Reservation phase**

An automated temporary interruption of trading (matching) of an instrument triggered by an intraday event

- On the RFE market model, such Reservation Phase most often occurs when the LP is out of one or both sides of the orderbook
- A Reservation phase could also be triggered by the Matching Engine during a Bid-Only Period, if a possible match could take place above the Virtual Offer Price
- During a Reservation phase there is no order matching, but order entry is fully functional

# Reservation phase continuous uncrossing

- Once the condition which triggered the Reservation phase is resolved, trading (matching) resume automatically
- The reopening process follows the same mechanism as the Continuous Uncrossing following the Call phase
- The system attempts to process possible matches according to the RFE logic setup, and then proceeds into the Continuous phase



#### Closed

The Closed phase is a short phase which concludes the end of the trading day (starting at 17:30, 20:30 or 22:00 on SeDeX for example)

- It follows the Continuous phase, or a Reservation phase if an instrument was reserved before the end of the trading day
- During the Closed phase, market participants are allowed to cancel the orders they may already have in the order books, but the modification of existing orders or entry of new orders is not possible

#### Inaccessible

The Inaccessible phase is the last phase of the day

- During the Inaccessible phase, order entry is closed, i.e. entry of new orders, modification or cancellation of existing orders is not possible
- Order entry will resume on the next exchange day during the Call phase



PHASES	Orders & Quotes	Trading	
	1	1	
CALL PHASE	Orders & quotes are accumulated on the book and visible	Book uncrossing at the opening if LP is present	
CONTINUOUS TRADING with RFE	LP posts indicative quotes on the book, participants insert passive orders LP quotes can trade against passive order		
CONTINUOUS TRADING <u>without</u> RFE	LP posts firm quotes on the book, participants insert aggressive or passive orders	All trades get executed	
RESERVATION PHASE	Orders only are accumulated on the book and visible	Book uncrossing when LP enters quotes	
DURING RFE TIME DELAY	Orders only are accumulated on the book and invisible	Book uncrossing when LP refreshes quotes or when time delay expires	
PRICE COLLAR SUSPENSION for VOP	Orders and bid-quotes are accumulated on the book and visible	Every 30 seconds the system checks if there is a matching possibility	



#### **4. ORDER TYPES AND CONTROLS**

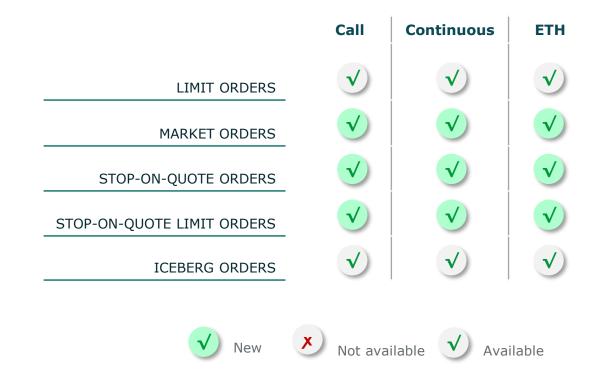


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### **Orders types**

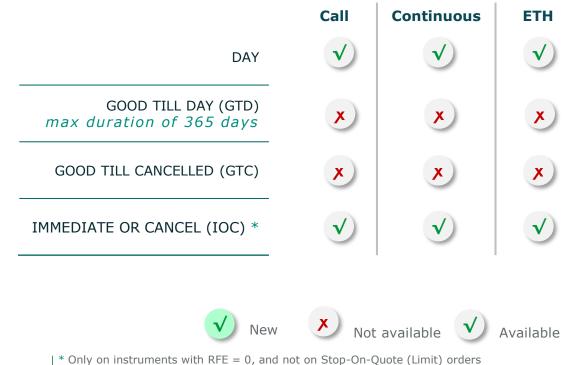
The following types of orders may be entered:





## **Orders validity**

Non-Liquidity Provider orders can be assigned the following conditions:





## **Controls on orders**

1

#### MINIMUM TICK

The prices of orders may be multiples of the ticks established for each financial instrument in relation to the prices of the orders entered, as follows:

Table currently in	Price of the order entered (euro and other currencies) *	Tick
place on N	Less than 0.0030	0.0001
Cert-X market	0.0030 - 0.3000	0.0005
which	0.3000 - 1.5000	0.0010
will be	1.5000 - 3.0000	0.0050
extended to SeDeX	Equal to or more than 3.0000	0.0100

Considering the characteristics of the financial instruments, Borsa Italiana may establish a different tick informing the market with a notice

### 2 PRICE BANDS

- Orders are checked upon entry vs the Price Bands % a +/- X% indicated in the Guide to the Parameters
- In case orders fall outside the price bands, they are rejected to prevent insertion of aberrant orders



 Orders are checked upon entry to make sure the quantity is a multiple of the minimum trading lot



| \* Upper limits not included

### **Price bands**

#### X PARAMETER: check on prices upon entry

**Static Reference Price** X parameter (OLD) X parameter (NEW) Less than or equal to 0.003 ±2000% ±2000% 0.0031 - 0.03±600% ±600% 0.0301 - 0.1±400% ±400% 0.1001 - 0.3±300% ±300% 0.3001 - 1,5 ±300% ±300% 1.5001 - 3±200% ±200% 3.0001 - 30 ±90% ±90% 30.0001 - 70 ±50% ±50% 70.0001 - 100 ±30% ±40% 100.0001 - 300 ±25% **±30%** NEW 300.0001 - 1000 ±20% **±25%** NEW 1000.0001 - 10000 ±20% **±25%** Above 10000 ±20% ±20%

X parameter for all instruments, <u>excluded</u> Constant Leverage Certificates



### **Price Bands for Constant Leverage Certificates**

		X parameter	X parameter	X parameter
Underlying type	Static Reference Price			
		(Leverage 1,2,3)	(Leverage 4,5)	(Leverage 6,7)
	Less than or equal to 0.01	180%	240%	300%
Commodities	0.01 - 0.05	120%	160%	200%
	Above 0.05	60%	80%	100%
	Less than or equal to 0.01	300%	300%	-
Volatility indices	0.01 - 0.05	200%	200%	-
	Above 0.05	100%	100%	-
	Less than or equal to 0.01	90%	120%	150%
Bonds and FX rates	0.01-0.05	60%	80%	100%
	Above 0.05	30%	40%	50%
	Less than or equal to 0.01	240%	300%	300%
Equities	0.01 - 0.05	160%	200%	200%
	Above 0.05	80%	100%	100%
	Less than or equal to 0.01	180%	240%	300%
Other underlyings	0.01 - 0.05	120%	160%	200%
	Above 0.05	60%	80%	100%



## Limits to the quantity and countervalue of orders

- The maximum quantity of a single order is equal to 50,000,000
- The maximum countervalue of a single order is equal to **25,000,000 euro**

Maximum quantity of the orders (number of instruments)	orders (euro)	
50,000,000	25,000,000	

For instruments traded in currencies other than the euro, the limits are periodically adjusted on the basis of the exchange rate

#### ICEBERG ORDERS have specific limits for the <u>peak</u> and the <u>total volume</u>

- iceberg orders are buy or sell orders that are split into smaller orders (peak), so as not to show the entire quantity of the order on the market (total volume)
- when an iceberg order is executed for its disclosed quantity (the "peak"), that quantity is renewed
- for the execution of one entering opposite-side order, the displayed quantities of all orders at the same price first are executed on time priority and secondly the remaining iceberg orders are executed for their total amount according time priority

Disclosed quantity (peak)	Total volume
<ul> <li>must be a multiple of</li></ul>	• minimum
the lot size <li>minimum 10 times</li>	countervalue equals
the lot size	to 10,000 EUR



## **TCS (Trading Confirmation System)**

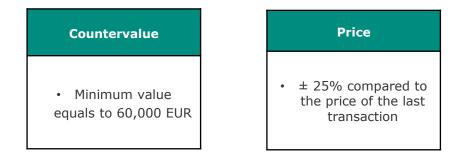
#### Off book pre-arranged LIS trades

#### Feature overview:

- it allows to execute off book but on Exchange pre-arranged trades
- the order is executed only between the two parties involved
- the transaction takes place outside the book and therefore does not affect the market price



Below are the limits to the minimum countervalue and the range within which the price can fluctuate:





### **5. BID-ONLY LIQUIDITY PROVIDER**





## **Instruments in bid-only**

- 1
- LPs can switch to bid-only via LP Command\* in real-time autonomously



LPs can revert back to bid&ask by sending double quotes



Bid-only status is notified via MDG Trading Side field (Bid Only or Both sides)



**Important**: if the bid quote is cancelled or the offer quote is cancelled without sending the switch to bid-only command, trading is reserved;



In bid-only products, trading occurs in the range between the bid quote and the Virtual Offer Price (VOP)



VOP values are established in the Guide to the parameters



VOP are disseminated real time alongside LP quotes via MDG as  ${\bf Low}\ {\bf LP}\ {\bf Collar}$  and  ${\bf High}\ {\bf LP}\ {\bf Collar}$ 

\* LP Action Code among SBE messages



### **Virtual offer price table**

Virtual offer price: if the liquidity provider is in BID-ONLY, the max offer price is determined as a function of the bid price (b)

Bid price (b) of the liquidity provider	Upper price limit for the execution of trades (b + price difference expressed in trading currency)	Bid price (b) of the liquidity provider	Upper price limit for the execution of trades (b + price difference expressed in trading currency)
b < 0.003	b + 0.005	30.0001 ≤ b < 70.00	b + 4
0.003 ≤ b < 0.03	b + 0.02	70.0001 ≤ b < 90.00	b + 7
0.0301 ≤ b < 0.1	b + 0.04	90.0001 ≤ b < 110.00	b + 9
0.1 ≤ b < 0.2	b + 0.05	110.0001 ≤ b < 200.00	b + 10
0.2 ≤ b < 0.3	b + 0.07	200.0001 ≤ b < 300.00	b + 17.5
0.3 ≤ b < 0.75	b + 0.1	300.0001 ≤ b < 500.00	b + 20
0.75 ≤ b < 1.5	b + 0.2	500.001 ≤ b < 1000.00	b + 30
1.5 ≤ b < 3.00	b + 0.3	1000.001 ≤ b < 5000.00	b + 50
3≤b<5	b + 0.5	5000.0001 ≤ b < 10000.00	b + 100
5 ≤ b < 10.00	b + 0.8	10000.0001 ≤ b < 50000.00	b + 200
10.0001 ≤ b < 30.00	b + 1.5	b ≥ 50000	b + 500



### **Trading Suspension due to VOP Collar**

1

The LP is quoting 75 and 77. When the LP switches to bid-only, the system automatically calculates the new Virtual Offer Price as bid + 7

Bid price (b) of the liquidity provider	Upper price limit for the execution of trades (b + price difference expressed in trading currency)
30.0001 ≤ b < 70.00	b + 4
70.0001 ≤ b < 90.00	b + 7
90.0001 ≤ b < 110.00	b + 9



2

If two orders potentially match at 85 (above the VOP) a reservation phase is triggered, orders are not cancelled, and the system tries to match again at regular intervals (every 30 seconds)



3

When the BID (b) price increases (from 75 to 78.5), the virtual offer price is automatically updated, and if the orders are now within the new range, the trade is executed





### **6. LIQUIDITY PROVISION**





### Liquidity Provider, Secondary Liquidity Provider And Market Maker

The operators providing liquidity for SeDex and Cert-X markets will be the following:

Liquidity Provider	The one and only official LP, replacing the current Specialist, benefits of a series of dedicated functionalities (RFE msg, bulk quotes, bid-only switch, KOBI, KIBI, PAKO)			
Secondary Liquidity Provider	Additional LP acting with the consent of the issuer in bid&ask or, if needed, just in bid-only			
Market Maker (SeDeX only)	MiFID II market maker acting without the consent of the issuer in bid&ask			



### Liquidity Provider, Secondary Liquidity Provider And Market Maker

A comparison between the subjects:

	Liquidity Provider	Secondary Liquidity Provider	Market Maker (SeDeX only)	
Is a Mandatory or Voluntary subject	Mandatory	Voluntary	Voluntary	
Act with Issuer consent	V	V	×	
Provide liquidity through	Bulk quotes	Orders	Orders	
How many subjects can there be	Only one per ISIN	One or more per ISIN	One or more per ISIN	
Can operate in Bid & Ask	V	V	V	
Can operate in Bid-Only	V	V	X	
Minimum time quoting obligations	80%	50%	50%	
Book reservation, RFE msg, bid-only, BOBBB, KOBI, KIBI, PAKO	V	× ×		



Not available

Available | 31

V

### **Obligations of Liquidity Providers, Secondary Liquidity Providers and Market Makers**

Quotation obligations of liquidity providers, secondary liquidity providers and market makers vary according to the trading hours:

Trading Hours	Market	Minimum amount (EUR)	Quantity Cap	Maximum spread (%)	Minimum time presence % (Liquidity Provider)	Minimum time presence % (Secondary Liquidity Provider)	Minimum time presence % (Market Maker, only on SeDeX market)
8:00 - 09:05	SeDeX	2,500	20,000	Maximum spread 2	0007	500/	50%
09:05 - 17:30	SeDeX and Cert-X	5,000	20,000	Maximum spread 1	80% (bid-ask, bid-only, <b>LPU</b> )	50% (bid-ask <b>SLM</b> , bid-only <b>LPS</b> )	50% (bid-ask <b>MMA</b> )
17:30 - 22:00	SeDeX	2,500	20,000	Maximum spread 2			



## **Obligations of Liquidity Providers, Secondary Liquidity Providers and Market Makers**

Percentage values of maximum spreads:

Previous closing price (EUR)	Maximum spread 1	Maximum spread 2
Less than or equal to 0.003	200%	270%
0.0031 - 0.3	60%	75%
0.3001 - 1.5	25%	30%
1.5001 – 3	17.5%	25%
3.0001 - 30	7.5%	10%
Above 30	3.5%	5%

#### During stressed market conditions on SeDeX market:

- Liquidity Providers, Secondary Liquidity Providers and Market Makers are required to quote with <u>halved quantities</u> and with <u>doubled spreads</u>
- Liquidity Providers with bid-only obligations are required to quote with halved quantities

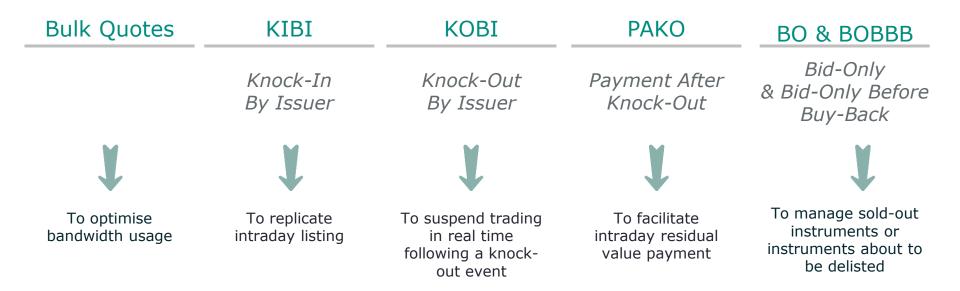
Such stress conditions occur in the following circumstances:

]	Instruments on underlying shares traded on the Euronext Milan market	Instruments on Italian stock indices
•	During the 15 minutes of continuous trading following a volatility interruption of the underlying shares	<ul> <li>In cases where stressed market conditions on index derivatives traded on the IDEM market have been</li> </ul>
•	in cases where stressed market conditions on the underlying have been declared	



## **Functionalities reserved to liquidity providers**

Some features are available for Liquidity Providers only:





The Borsa Italiana migration onto Optiq and related changes are subject to regulatory approval

## **Valuation Price and Closing Price**



#### Valuation Price

- The current static and dynamic prices have been replaced by the Valuation Price
- Valuation Price is calculated and disseminated at the opening and every 5 minutes

#### Valuation Price computation



# CLOSED

#### **Closing Price**

- The current reference price is replaced by the Closing Price.
- The Closing Price is equal to the latest between:

Last Traded Price*	Latest Valuation Price	Closing Price of the previous session
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\* The Last Traded Price is the price of the latest trade

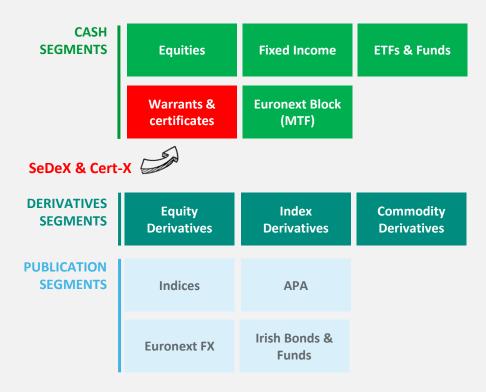


#### 7. OPTIQ MIGRATION PHASE 2 OPERATIONAL & TECHNICAL INSIGHTS





### Segments, Partitions and Logical Accesses



	GUIDELINES			
	GOIDELINES			
<ul> <li>SeDeX and Cert-X (EuroTLX) will be added to the Warrants &amp; Certificates (W&amp;C) segment</li> </ul>				
The <b>W&amp;C</b> see	gment is composed of <b>2 parti</b>	tions		
	nts can use the same <b>Logical</b> , other <b>W&amp;Cs</b> traded on Optiq	Accesses		
<ul> <li>Clients can us markets trad</li> </ul>	se the same <b>Firm ID(s)</b> they l led on Optiq	use for other		
	ated <b>Logical Accesses</b> for LP a out not mandatory	activity is		
Account Typ	Des:			
	Liquidity Providers should ma ount Type ``LP″ (6)	ark orders		
. Secondar	v Liquidity Providers should	mark orders		

- Secondary Liquidity Providers should mark orders with Account Type "Structured Product Market Maker" (8)
- Brokers/Dealers should mark orders with Account Type "House" (2)/"Client" (1)

## **Testing now available in EUA for Italian W&Cs**



Environment (Next EUA) available for Italian Markets since Wednesday **19 April 2023** 

#### Since 19 April 2023, Borsa Italiana Phase 2 subset of instruments is available in Optiq Next EUA for testing:

- ~4,000 SeDeX instruments
- ~1,600 Cert-X instruments
- This is a first subset of instruments that covers a representative sample of the production instrument space
- Further instruments can be configured upon the need
- A subset of the above instruments is available for Frontto-Back testing

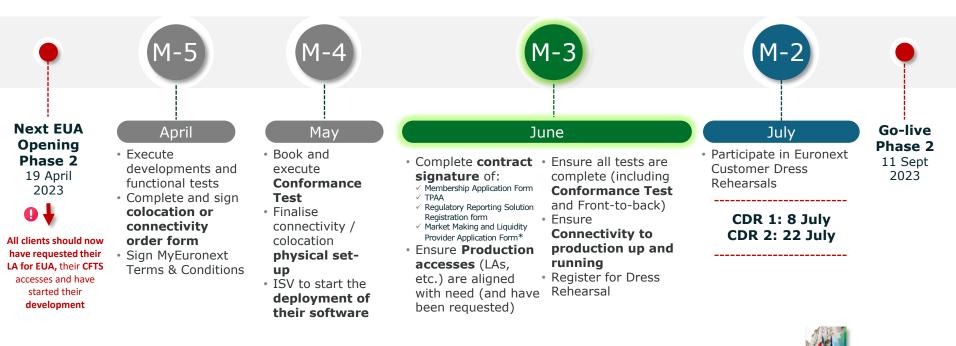
List of instruments usable for **testing** by clients and list of Instrument Group Codes with Trading Details (Market Model and Trading Hours) are available on **Connect** and **Borsa Italiana** websites

Millennium CDS test environment will for the moment remains available for clients (decommissioning will be communicated in due *course*)



## **Migration next steps overview**

In preparation for the Dress Rehearsals (8 and 22 July), clients who have not done it yet are invited to book their conformance test or validate their self-certification.



The **Migration Guidelines** document is available for details on all the steps and related modalities of the migration. At the end of the document, a checklist is available for clients.



The Borsa Italiana migration onto Optiq and related changes are subject to regulatory approval

\*For clients who opt in for the service

## **Clients Testing in Next EUA for Phase 2**

**By beginning of June,** all clients should have finalised their developments & deployed their software

By end of June, all clients should have completed their tests and be ready for the first mandatory Dress Rehearsal

#### Note:

Success of the test(s) must be confirmed by the client through **dedicated webforms** 

	<b>Clients not</b>	<b>Clients connected to Optiq</b>			
	yet connected to Optiq	Trading on Borsa Italiana markets (common)	Trading on legacy markets		
Functional Tests	$\checkmark$	Along with project deliveries*	Along with project deliveries*		
Conformance test	<b>Full</b>	Along with project deliveries*	Along with project deliveries*		
High Availability	✓	✓	✓		
Market Data Gateway	$\checkmark$	✓	If new channels subscribed		
Throttling	$\checkmark$	$\checkmark$	×		
Front-to-Back	✓	✓	✓		
SLC/Transaction Reporting	✓	✓	×		
Customer Dress Rehearsals					
	Mandatory	Strongly Recommende	d X Optional or N/A		



\*Depending on client set-up and implantation, please contact us for further information and guidance

#### **Documentation, Communication & Contacts**



#### Info-Flash/Service Announcements

informing about key milestones and functional highlights on deliveries



**Operational notices informing** about technical changes related to delivered services and external specifications updates



**Technical document (i.e. external specifications)** detailing information on how to develop and implement Optiq®, TCS and Saturn features



Full details on the current Optiq<sup>®</sup> platform already available in the technical documentation on the <u>Euronext website</u>

Subscription to Info-Flashes and Operational Notices can be done through the **Connect Portal.** Clients are invited to subscribe to the above-mentioned notifications and regularly consult the list of documents shared in the IT Documentation section on Connect.



#### **Migration guidelines**

guidance on how the migration plan will be rolled out

#### **Guide to Trading System**

information on functional changes for each of the segments - new version coming soon!

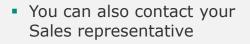
#### FOR FURTHER INFORMATION ABOUT BORSA ITALIANA MIGRATION TO OPTIQ:

Optiq Migration Help Desk: Optiqmigration@euronext.com
+33 1 8514 8585
+39 02 4541 1399

 Optiq Migration page: <u>https://connect2.euronext.com/en</u>/<u>membership/projects/bita-optiq-migration</u>



The Optiq Migration Support Desk will liaise with you on a regular basis to support you in your readiness







## QUESTIONS & ANSWERS SESSION



If there is not enough time to answer your questions, we will get back to you following the presentation. Thank you!





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