### WEBINAR: Borsa Italiana Migration to Euronext Optiq<sup>®</sup>

Migration Updates and Testing Kick-Off



5 October 2022

#### **Speakers**



#### **Eglantine Desautel**

Head of Euronext Market Services (EMS)



#### **Nicole Agopian**

Head of Technology Partnerships



#### **Flavio Ravotto**

Senior Manager, Customer Relationship Management Technology & Client Connectivity







- **1.** INTRODUCTION AND TIMELINE
- **2.** EUA OPENING FOR ITALIAN MARKETS
- **3.** TESTING APPROACH AND READINESS NEXT STEPS
- **4.** DELIVERY IN EUA & PRODUCTION UPDATES
- **5. MARKET UPDATES**
- 6. Q&A



# **1. Introduction & timeline**



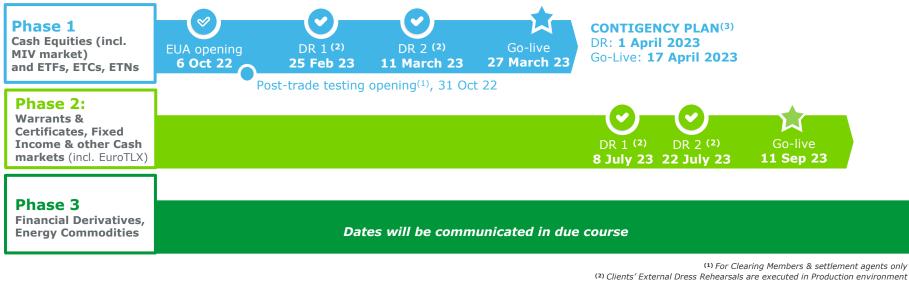


### **Confirmed migration timeline**

**OPTIQ ® UPGRADES FOR CLIENTS TRADING ON LEGACY MARKETS:** 

Changes will be implemented in prod along with project delivery

#### NEXT CRITICAL RELEASE REQUIRING ADJUSTEMENTS ON CLIENTS' SIDE Cash: 21 Nov 2022 / Derivatives: 28 Nov 2022



(3) The schedule includes a contingency plan as a emergency measure that would be activated only in the unlikely event that

not all testing criteria are fully validated and the Go-Live is at risk



# **2. EUA Opening for Italian** Markets





### **Overview of Euronext Test Environments**

Euronext provides two environments to clients on Optiq Machine Engines and surrounding applications:

- One dedicated to testing for FUTURE PROD (Next-EUA)
- One at ISO PROD (Current EUA)

#### **NEXT EUA**

Environment designed to complete testing on client's side allowing to anticipate upcoming versions of Optiq Matching Engine and SBE templates (incl. functional and technical changes)

Environment to be used for:

 Functional & technical changes and related testing

 Front-to-back testing (possible thanks to the existing link with CCPs)

Italian instruments will initially be listed in Next-EUA, then progressively move to Current-EUA

Upgrade from Next-EUA to Current-EUA aligned with Production go-live of each phase of the migration **CURRENT EUA** 

Environment designed to complete testing against Production

- Same Matching Engine and SBE Templates as in Production
- Environment allowing to test Trading Algorithms
  - No link with CCP



Please note that Next-EUA environments is closed on Wednesday mornings and on Tuesday morning for current EUA for standard weekly maintenance The Borsa Italiana migration onto Optiq and related changes are subject to regulatory approval

### **Testing opening for Italian Markets migrating Phase 1**

to:

Optiq Test Environment (Next-EUA) available for Italian Markets as of Thursday 6 October 2022

Clients of the Italian Equity and ETFs, ETCs, ETNs Markets moving to Optiq in Phase 1 are warmly invited to:

- Complete their software developments and configuration
- Start testing

#### Borsa Italiana Instruments available in Optiq Next-EUA

- **Borsa Italiana Equity instruments** will be available in Optiq Next EUA as of 6 October 2022:
  - ✓ Euronext Milan (MTA)
  - ✓ MIV
  - ✓ GEM
  - ✓ EGM

A subset of equity instruments will be made available in EUA, at least one per typology

All the above markets will be available on the Optiq **Equities** Segment

- Borsa Italiana ETFs (ETFs, ETCs, ETNs & ATFund, all on the Optiq ETF Segment) will be available in Optiq Next EUA as of end of October and and TAH (on the Optiq Block Segment) will become available by the end of November. Date will be communicated in due course via Operational Notice
- Further deliveries and Optiq upgrades in EUA before the go-live of Italian Equity and ETF markets on 27 March 2023 Stay tuned for updates on new deliveries (sent via dedicated communications)
- Millennium CDS will remain available for clients



### **Connectivity to the test environments**



- Clients have been (or will shortly be) contacted directly for testing and to confirm that connectivity is in place for EUA opening
- If not done yet, clients are urged to test connectivity (at least via Telnet and logging in with EUA Logical Accesses provided)
- Clients willing to change their connectivity set-up should contact <u>optiqmigration@euronext.com</u> to request the required changes
- Clients initially connecting to Next EUA from the current Borsa Italiana co-location service will have to move their EUA connectivity to an alternative solution by the end of the migration

RONFX

### **Italian Markets on Optiq**

#### **Optiq Partitions**

No additional or dedicated Partitions will be added to the Cash Optiq infrastructure for managing Italian instruments

- Partitions (incl. OEGs) already available in Optiq Next EUA will be used for trading on Italian Instruments
- Members already connected to Next-EUA can use their existing Logical Accesses to manage Italian markets
- IP and Ports are available in public connectivity documentation on Connect website
- The same approach will be applied for Production
- As communicated, a new Partition will be added to W&C Segment post the Phase 1 go-live (and partitions may be added on other segments, confirmation will be provided in due course)

#### Market Data

New dedicated Multicast Channels are added for disseminating Market Data for Italian Instruments on MDG

- All IP Address and Ports on the new Italian Multicast Channels are available in MDG public connectivity documentation on the <u>Connect</u> website
- Clients connected through vendors also have to check (with the vendor) as soon as possible the correct reception of data to be able to start testing
- Clients are in charge of ensuring the correct set-up of their connection to access Euronext MDG & OEG





#### **MDG Lite**



**TCP-compressed version of MDG** offering alternative market data on Italian markets (only) with reduced bandwidth (higher latency)

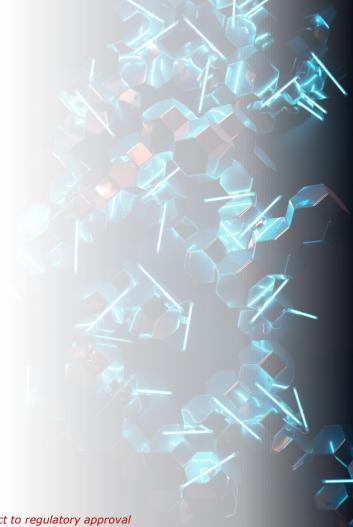
#### Markets available

All Italian Markets available in **Optiq Next EUA** will be available via MDG Lite, i.e.

- . Equity Markets as of 6 October 2022
- . TAH, ETF and ATFund by the end of October 2022

MDG Lite will be available in Next EUA as of 6 October 2022

- TCP connectivity (no Multicast) has been configured on clients' default test connections previously enabled to GTP Lite
- Clients have been contacted directly for testing and to confirm connectivity is fully operational for EUA opening
- If not yet done, clients are strongly recommended to test connectivity





# 3. Testing approach





### **Phase 1: Clients Testing in Next-EUA**

Clients impacted by the go-live of Phase 1 need to complete their developments and start testing in Next-EUA as soon as possible

#### Testing should be completed before the first Dress Rehearsal

To note:

- Success of the test(s) will need to be confirmed by the client through dedicated webforms
- For clients already connected, tests will have to be managed following the sequence of functional deliveries

	Clients	<b>Clients connected to Optiq</b>		
	not 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	
Market Data Gateway	$\checkmark$	$\checkmark$	If new channels subscribed	Erom
TCS (GUI)*	✓	×	×	From October '22
SLC/Transaction Report	ing 🖌	✓	×	22
Conformance Test	🖌 Full	along with project deliveries	along with project deliveries**	
High Availability	✓	✓	$\checkmark$	From
Throttling	$\checkmark$	$\checkmark$	x	From November '22
Front-to-Back	$\checkmark$	✓	$\checkmark$	22
			led 🗴 Optional or N/A	
*For clients who op	t in for the service /	' TCS OEG testing will be mana	aged through conformance test	

\*For clients who opt in for the service / TCS OEG testing will be managed through conformance test \*\***Depending on client set-up** and implantation, please contact us for further information and guidance

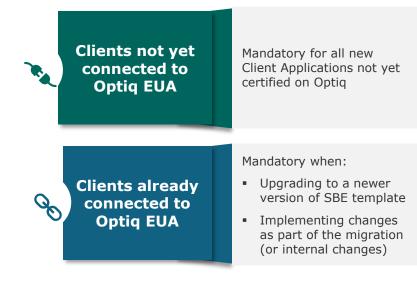


### **Conformance Tests**

#### **Conformance Tests are planned to start in November 2022**

- Conformance tests must be completed by the first Customer Dress Rehearsal planned on 25 February 2023 for:
  - Clients developing in-house trading and drop copy applications
  - ✓ Software Vendors
  - Clients not developing in-house solution but using software provided by ISVs (*light conformance test*)
- Clients are asked to book their conformance test by contacting optiqmigration@euronext.com
- Conformance Test documentation and scripts are already available on the **Connect** website
  - ISVs need to refer to the delivery schedule and plan deliveries early enough for their clients to be ready on time

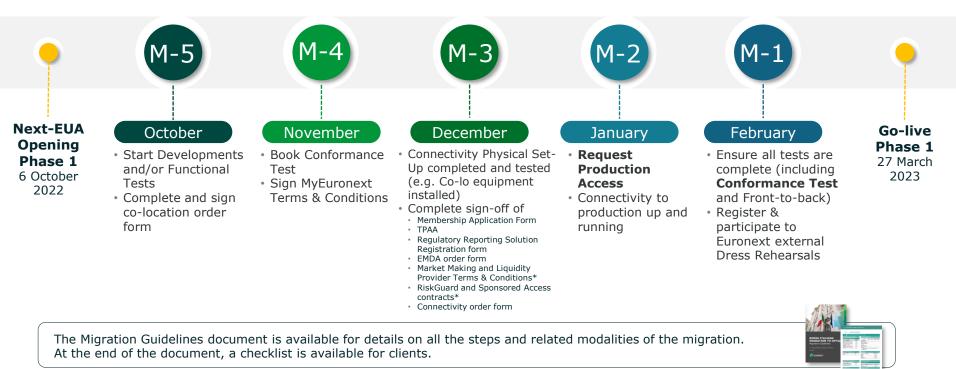
Please note that Next EUA is closed for weekly maintenance on Wednesdays until 14:00 CET





### Phase 1: Migration next steps overview

Clients impacted by the phase 1 need to carefully manage their readiness in EUA and PROD to be prepared for 27 March 2023 For that purpose they need to follow the several steps required before the go-live of Phase 1, as detailed in the migration guidelines document



ili euronext

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

\*For clients who opt in for the service 15

### **Colocation and Connectivity Update**



Colocation and CMC Price lists will be updated shortly with the Application Service Fees (ASFs) applying to the new Market Data channels for Italian Markets

2

New packages will be introduced to provide finer granularity to Members and Service Providers, especially to clients active in a subset of Euronext markets, e.g. Oslo market as well as Borsa domestic clients

Effective date to be provided shortly

#### New Euronext Managed Connectivity (EMC)

- New offer provided to Members and Service Providers as an alternative to Client-Managed Connectivity (CMC), offering *fully managed connectivity to Euronext Data Centres and Points of Presence*: Aruba IT3, St Denis, Interxion 1 (LDN), Equinix Slough, and Milan (BT)
- Additional bandwidth options available compared to CMC options: 2MB and 10MB
- All documentation will be available on the Connect Portal in the coming days

For more information, please contact your Sales Representative or <u>optiqmigration@euronext.com</u>



# **5. Update on delivery in EUA and Production**





### **General approach for delivery in EUA & Production**



#### **Phased approach delivery**

Clients are reminded that features for both Euronext Legacy and Italian markets will **be delivered first in Next-EUA** and implemented in Production following a **phased scheduled approach** 

Some features may be implemented in EUA in multiple batches, and be fully activated at a later stage

#### Specific communication path per batch of delivery

Dedicated communication is being built to support clients in their development and testing of the different features

Each batch of delivery is accompanied by minimum 4 communications:

- Operational Notice describing each batch and associated technical documentation updates (external specifications)
- Info-Flash for Next-EUA opening
- Info-Flash for Production opening
- Detailed documentation on specific functionalities impacting clients / Specific functional background

Clients are also invited to consult the Guide to the Trading Systems

#### **Careful management of SBE upgrades**

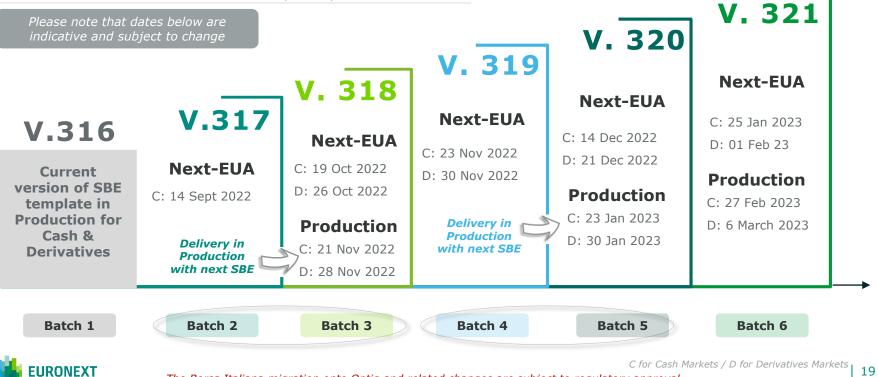
Clients are also reminded to pay attention to the **SBE template upgrades**, and ensure that their applications support the Euronext backward / forward compatibility rules



### **Anticipated SBE deliveries in EUA and Production**

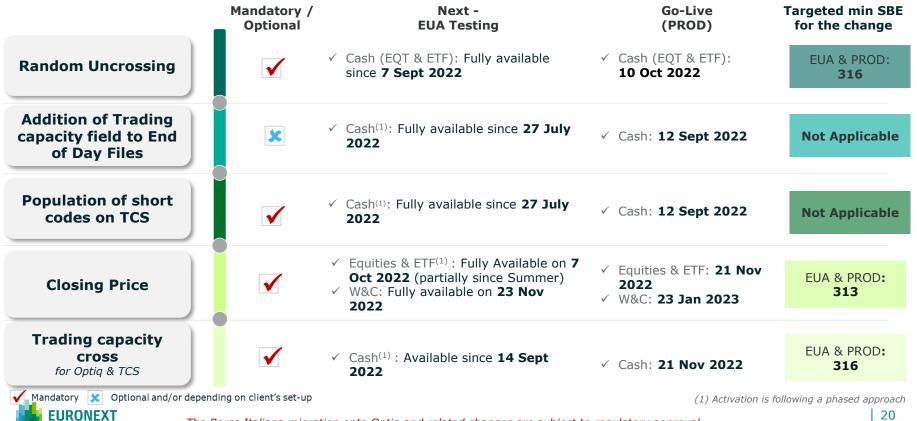
The table below presents an overview of the different SBE Template upgrades planned until the Go-Live of Phase 1 of the Borsa Italiana Optig Migration

Euronext will maintain backward / forward compatibility for all those versions



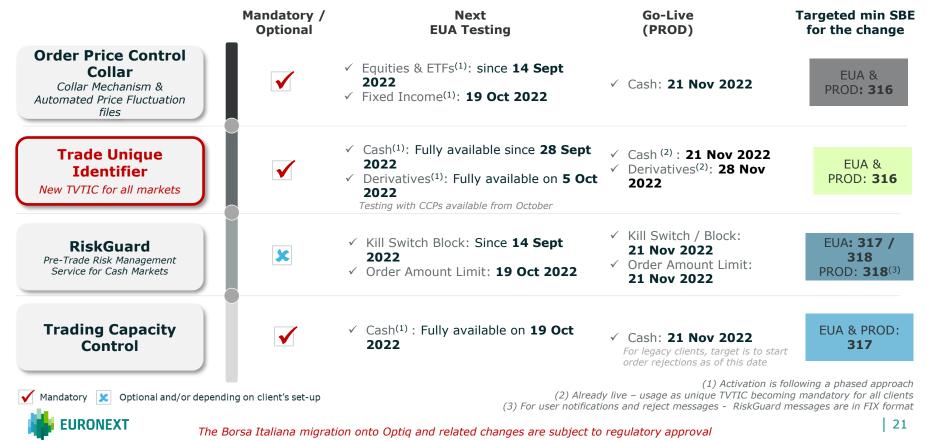
### **Delivery of Services in EUA & Production (1)**

Indicative timeline & SBE version, subject to change



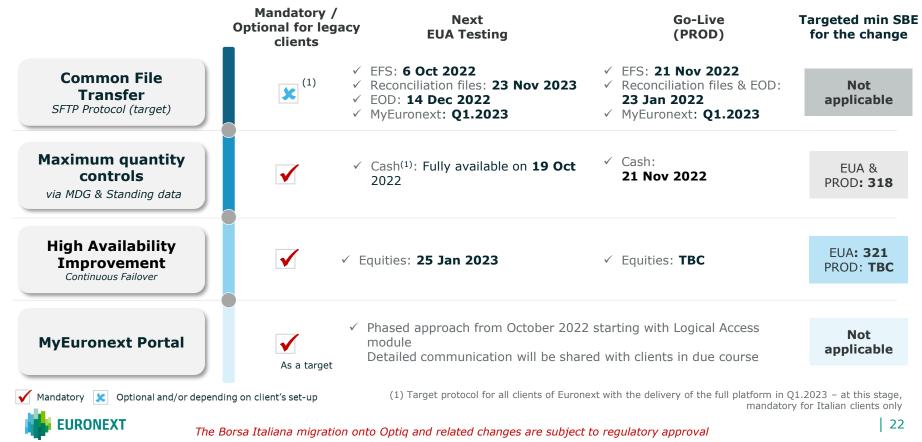
### **Delivery of Services in EUA & Production (2)**

#### Indicative timeline & SBE version, subject to change



### **Delivery of Services in EUA & Production (3)**

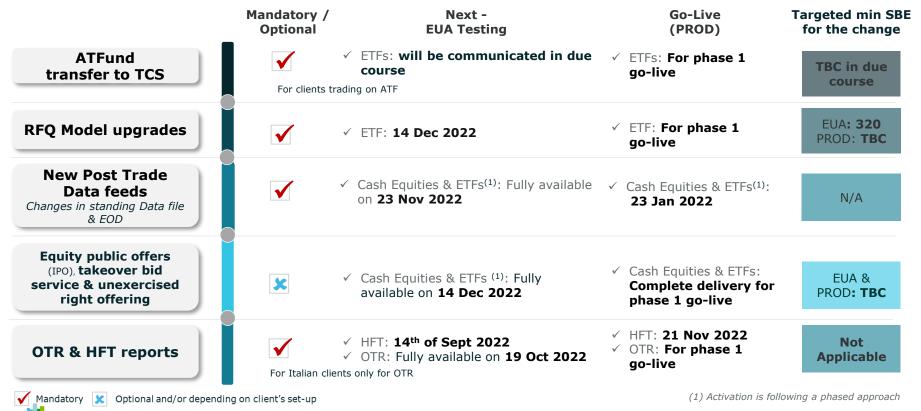
#### Indicative timeline & SBE version, subject to change



### **Delivery of Services in EUA & Production (4)**

Indicative timeline & SBE version, subject to change

EURONEXT



# 6. Market updates





### **RiskGuard Update**

Extension to Euronext Cash markets and Sponsored Access

Controls already available in Next-EUA environment since 14 September 2022:

- Kill Switch: 'Suspend' command to allow a Risk Manager to pull orders and stop a Client trading activity on one or all Optiq segments
- Contract Restrictions (Block): Prevent order submission in a specific instrument when a Client or Firm does not have permission to trade

The control below will be available in Next-EUA environment on 19 October 2022:

 Order Amount Value: Set a Maximum Order Value for Buy and Sell orders at Instrument level

Risk Managers are given the flexibility to set such commands at different levels i.e. FirmID, Logical Access, ExecutionWithinFirm, ClientIdentification short codes depending on their risk profile

#### **Maximum Exposure Position and Sponsored Access**

Euronext is still working on the implementation timetable of the **Maximum Exposure Position (MEP)** allowing Risk Managers to limit the daily maximum long or short exposure of the risk-monitored entity as well as the commercial go-live of Sponsored Access – more information will be provided in due course



Go-Live of the service planned ahead of the migration on **21 Nov 2022** for the following Optiq segments of Euronext legacy markets:

- Equities
- Funds
- Fixed Income\*



\* Extension to the Block segment for Trading After Hours on Borsa Italiana

### How to access the RiskGuard service

#### **WHO CAN ACCESS**

- General Clearing Members (GCMs), to monitor their NCM
- Euronext Trading Members, to monitor their firm's or clients' trading

#### HOW TO BE GRANTED ACCESS

- Sign the Risk Management Services Agreement and MyEuronext T&C\*
- Complete and sign the Statement Of Authority as a Trading Member and / or as a GCM (one SOA per NCM is needed)
- Order dedicated RiskGuard Logical Accesses for EUA and Production

#### FIX 5.0 API

- Available for Cash and Derivatives
- RiskGuard messages are integrated within the Optiq OEG FIX 5.0 API
- All RiskGuard controls can be set, amended, de-activated using dedicated FIX Logical Accesses (*low capacity*)

#### WEB-BASED USER INTERFACE

- New interface available on Derivatives markets since Q2 2022 covering all controls + additional features such as *email alerts*
- Accessible through MyEuronext Portal
- MCAs should initially create Risk Managers through the Connect portal and assign them a profile for the application

RiskGuard (• Im					ter name 1 IIIIIIII
C Charge C					
Overview Rick.starts Em	al management Reference data Stort radio ma	requirent			
Saest a Stori Gara Yana/G	ophali Balana / Long Eada				٩
Different Cart retrievel on 10	sealarite 412.51				
Beller 11-1	Norther Lake	190		-	
Trading Firm1	3656272	•	•	٠	-
Taking sections and Darr Labor					
C Laplaciant D	SAuri Golen				
Manager surface	Laplatidents		-	100	
Instang front scalesh	640	÷.	•		Read T
fraing front	Last		٠	0	(

Specific documentation for Sponsored Access will be communicated in due course



\*Only for accessing the Derivatives GUI

#### **ATFund Overview**



- The **ATFund** market (currently managed on the Millennium IT platform) will be migrated onto the **Euronext Trade Confirmation System (TCS)**
- ATFund will remain a Multilateral Trading Facility (MTF)
- Clients can access to TCS either via OEG (FIX or SBE Logical Accesses) or Web GUI
- Settlement process will remain unchanged



### **ATFund – Roles and Market Model Main Changes**



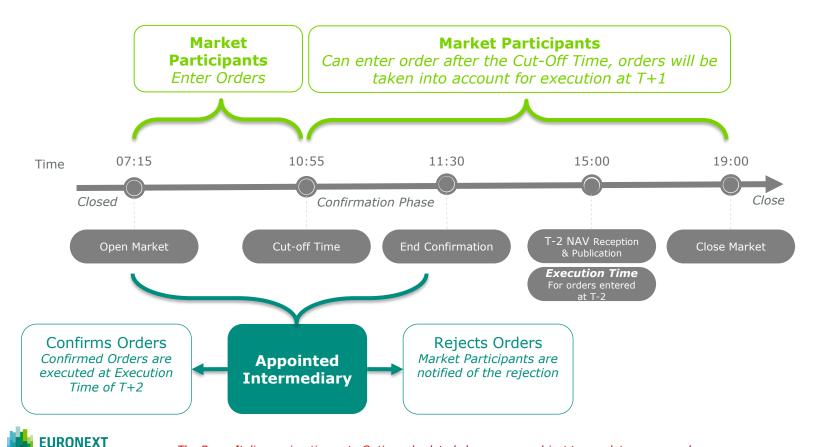


- Accepting / Rejecting
- Orders

NAV/Execution Price uploading delegated by the Issuer

Current	Future				
The Trading Phase consists of an <i>Auction</i> between 08:00 and 11:00 CET (call at 11:00)	Trading is open between 07:15 and 19:00 CET				
The Appointed Intermediary is asked to enter an order at the end of the auction covering the difference in quantity between bid and ask	The <i>Appointed Intermediary</i> is asked to match all single orders entered by Market Participants during the <i>Confirmation Phase</i> (10:55 – 11:30)				
The Appointed Intermediary enters the NAV Price at 15:00 T+2					

### **ATFund Trading Cycles**



### **Timetable Changes**

As of day-1 of the go-live phase 1 of the migration, timetable changes will be applied\* to all clients on Equities and ETF, ETCs and ETNs markets



\* Subject to regulatory approval





# 7. QUESTIONS & ANSWERS SESSION



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





#### **Obrigado Dank Je Merci Grazie Takk Thank You**

This publication is for information purposes only and is not a recommendation to engage in investment activities. This publication is provided "as is" without representation or warranty of any kind. Whilst all reasonable care has been taken to ensure the accuracy of the content, Euronext does not guarantee its accuracy or completeness. Euronext will not be held liable for any loss or damages of any nature ensuing from using, trusting or acting on information provided. No information set out or referred to in this publication shall form the basis of any contract. The creation of rights and obligations in respect of financial products that are traded on the exchanges operated by Euronext's subsidiaries shall depend solely on the applicable rules of the market operator. All proprietary rights and interest in or connected with this publication shall vest in Euronext. No part of it may be redistributed or reproduced in any form without the prior written permission of Euronext. Euronext refers to Euronext N.V. and its affiliates. Information regarding trademarks and interest is located at <a href="https://www.euronext.com/terms-use">www.euronext.com/terms-use</a> (© 2022, Euronext N.V. - All rights reserved.