

EEX Group Workshop  
EPEX Spot Update

Speaker: Florian Brunzlow | EPEX  
27 June 2019

1. Market update
2. Status of main projects
3. New developments and outlook

1. **Market update**
2. Status of main projects
3. New developments and outlook

# Intraday: A unique marketplace with the biggest product range and best performance in Europe

**Access** to whole european

## Intraday liquidity

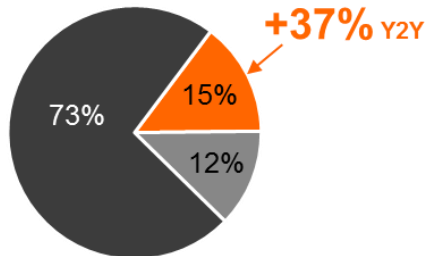
— simplified XBID access

— 90% of all XBID Trades are traded at EPEX

— arbitrage opportunities between 60/30/15-min products



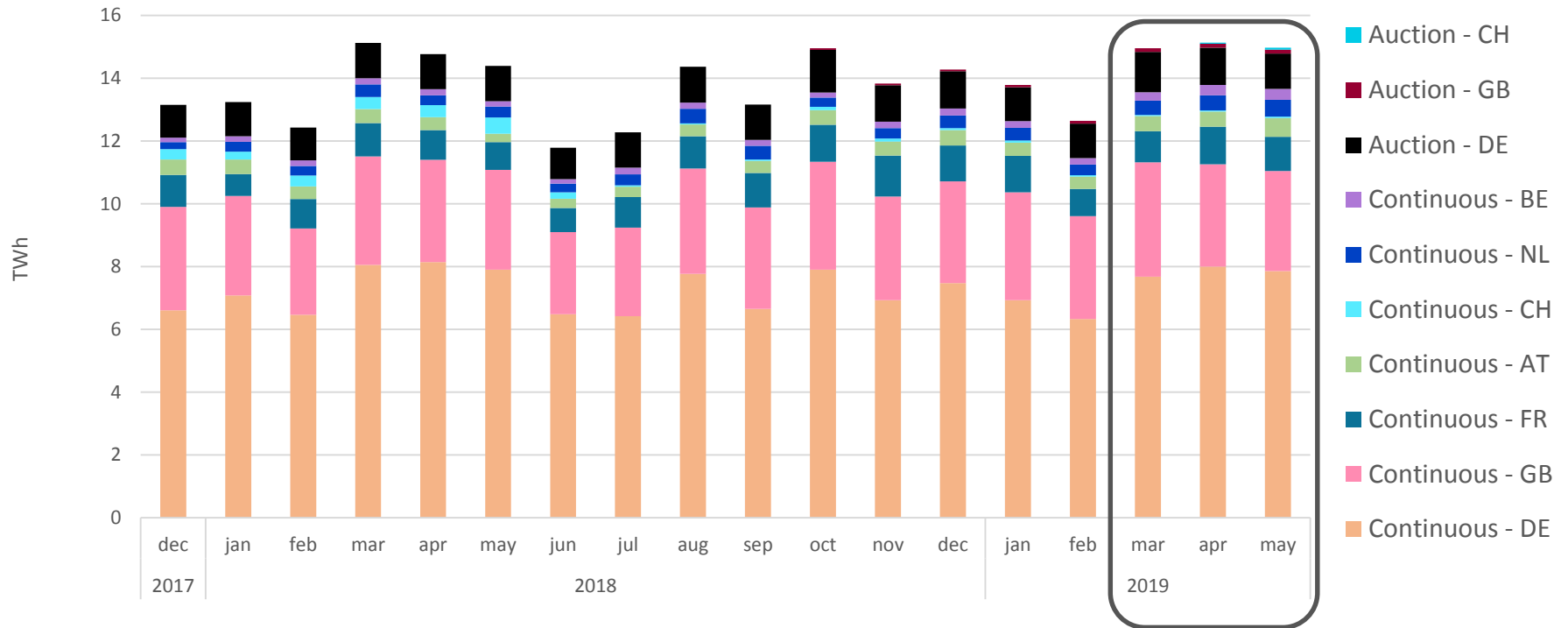
German Intraday Volumes per product (Oct. 2018)



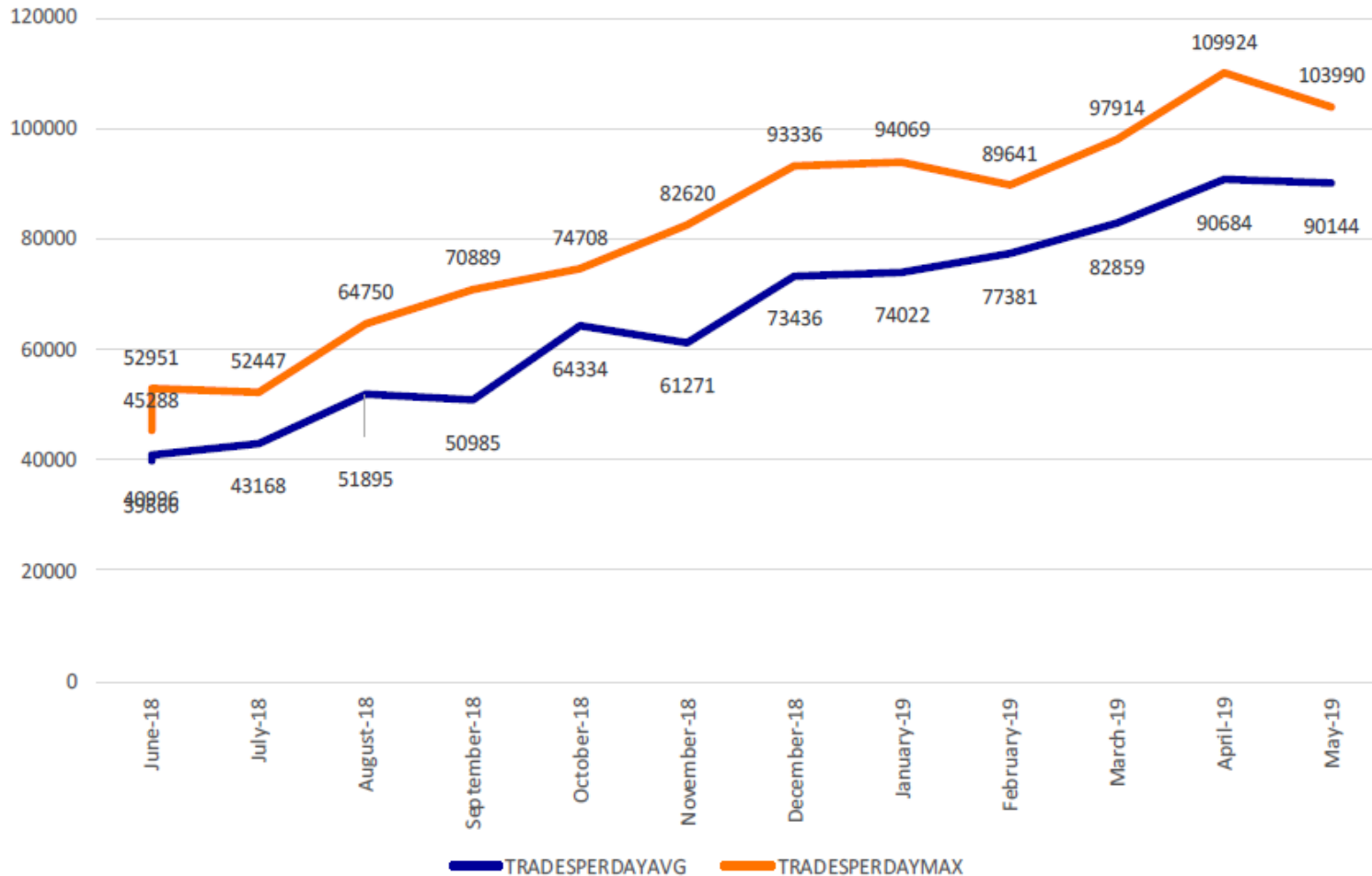
■ 15-min Auction ■ 15-min Continuous ■ 30, 60-min

# EPEX SPOT Volumes: Intraday Markets

- **Intraday** volume for last 3 months increases by 0.8 TWh compared to Mar '18 to May '18.
  - Mar '19:** Record volume for GB-IDA auctions (114 GWh) and BE continuous (268 GWh)
  - Apr '19:** Increase of 0.4 TWh YoY, record volumes for FR, NL and BE continuous markets
  - May '19:** Record volumes for AT, NL and BE, overall increase of +0.6 TWh compared to May '18.

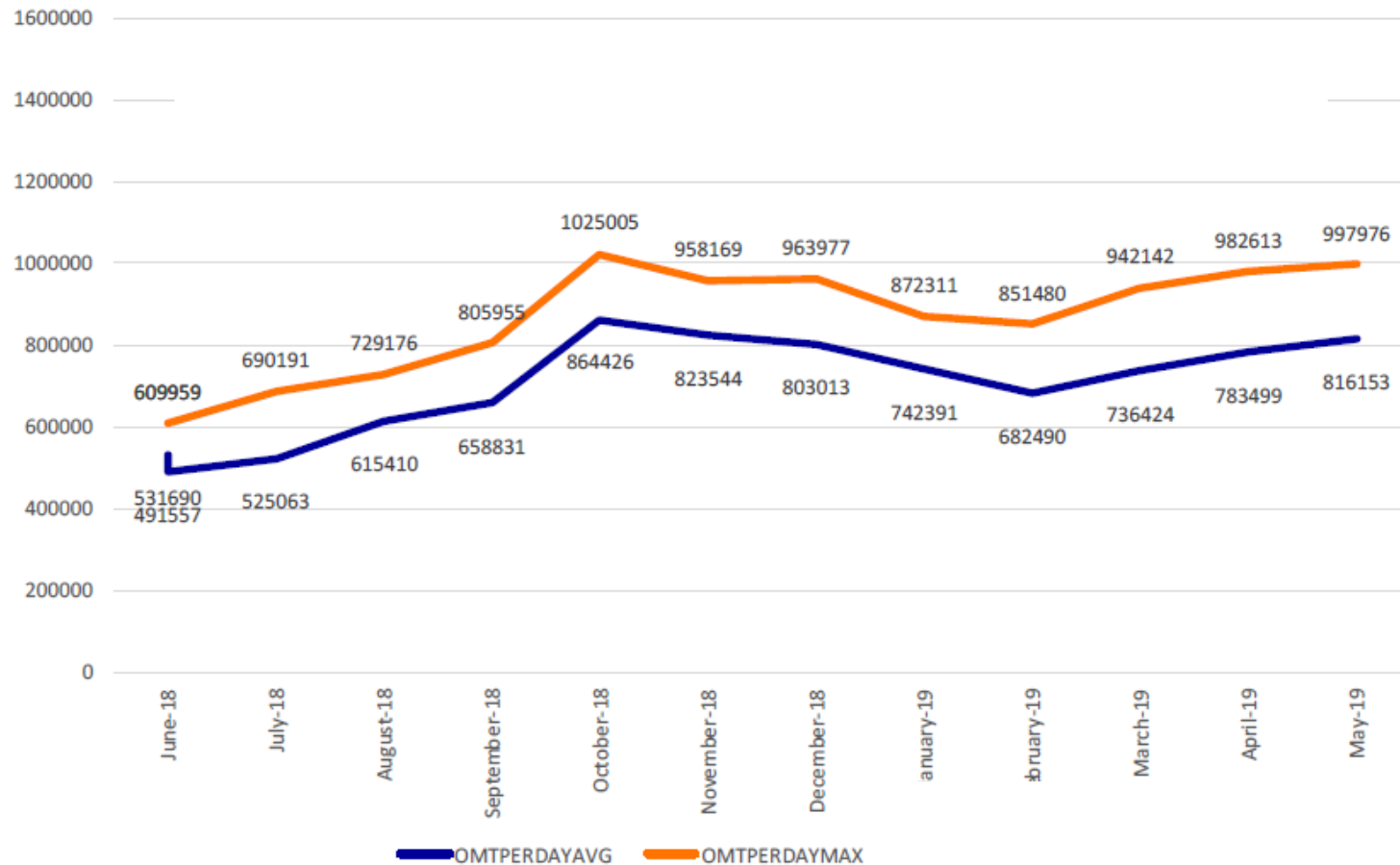


# Continuous Intraday: Average and maximum daily trades per month



| Month   | AVG    | MAX     |
|---------|--------|---------|
| 6/2018  | 39,866 | 45,288  |
| 6/2018  | 40,996 | 52,951  |
| 7/2018  | 43,168 | 52,447  |
| 8/2018  | 51,895 | 64,750  |
| 9/2018  | 50,985 | 70,889  |
| 10/2018 | 64,334 | 74,708  |
| 11/2018 | 61,271 | 82,620  |
| 12/2018 | 73,436 | 93,336  |
| 1/2019  | 74,022 | 94,069  |
| 2/2019  | 77,381 | 89,641  |
| 3/2019  | 82,859 | 97,914  |
| 4/2019  | 90,684 | 109,924 |
| 5/2019  | 90,144 | 103,990 |

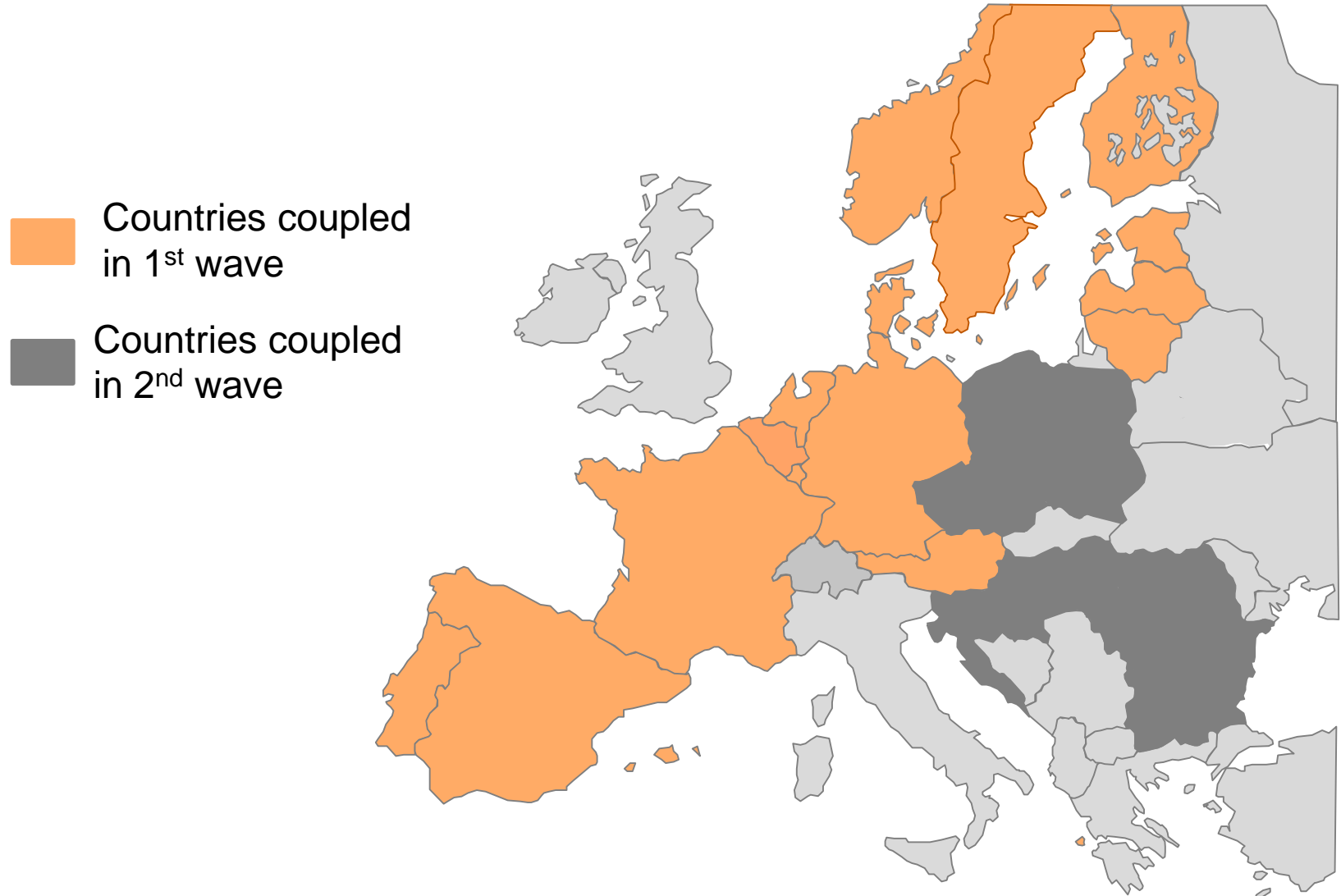
# Continuous Intraday: Average and maximum daily order events per month



| Month   | AVG     | MAX       |
|---------|---------|-----------|
| 6/2018  | 531,690 | 609,959   |
| 6/2018  | 491,557 | 609,959   |
| 7/2018  | 525,063 | 690,191   |
| 8/2018  | 615,410 | 729,176   |
| 9/2018  | 658,831 | 805,955   |
| 10/2018 | 864,426 | 1,025,005 |
| 11/2018 | 823,544 | 958,169   |
| 12/2018 | 803,013 | 963,977   |
| 1/2019  | 742,391 | 872,311   |
| 2/2019  | 682,490 | 851,480   |
| 3/2019  | 736,424 | 942,142   |
| 4/2019  | 783,499 | 982,613   |
| 5/2019  | 816,153 | 997,976   |

- **April 2019 availability rate: 99,96%**
- **Average Jan-Apr 2019 availability rate: 99,93 %**

# Second XBID wave is planned for Q4 2019



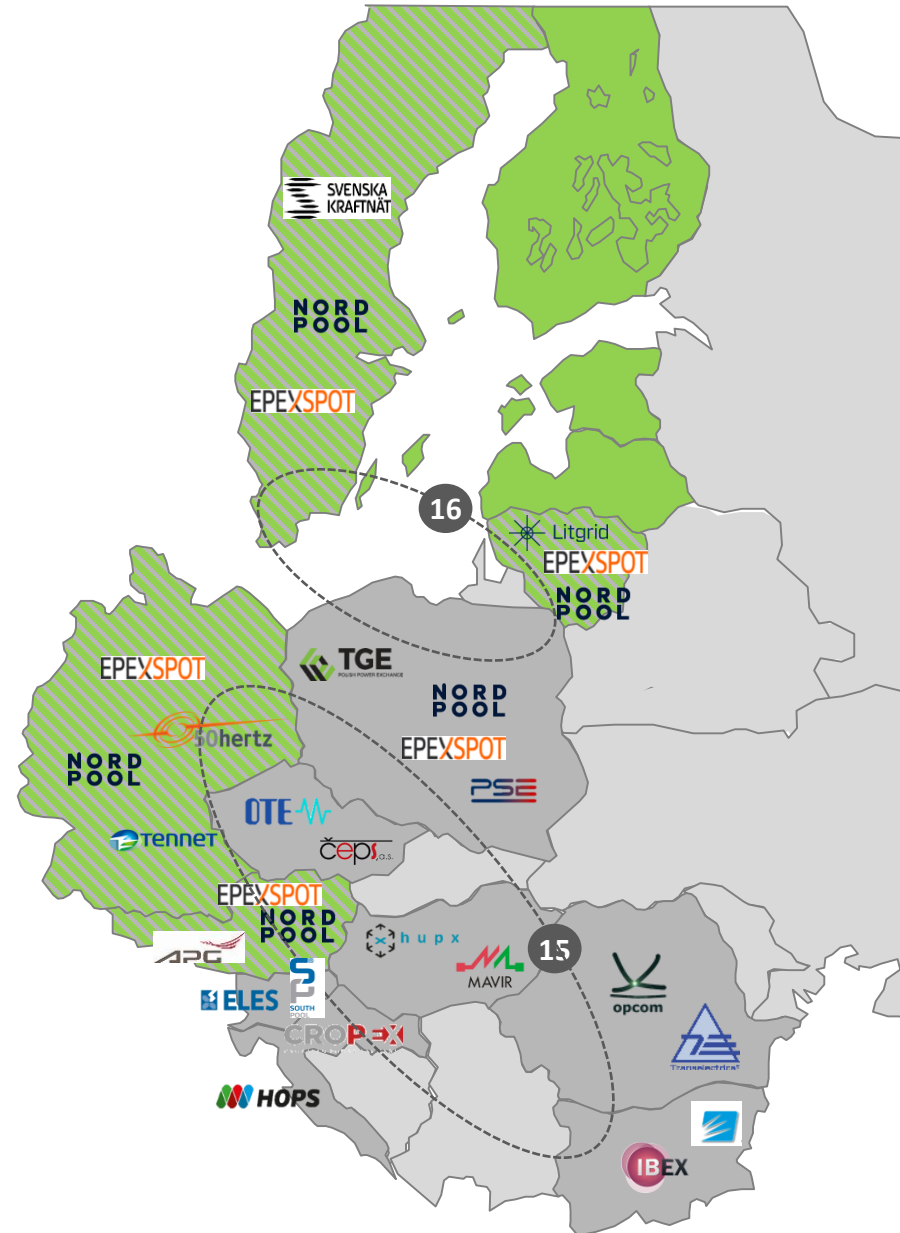


# Planned XBID expansion

| LIP |  | Participants   |
|-----|--|--|
| 15  | AT-CZ, AT-SI, AT-HU, BG-RO, CZ-DE, CZ-PL, DE-PL, HR-SI, HR-HU, HU-RO | <b>NEMOs:</b> BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE<br><b>TSOs:</b> 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Tranelectrica, TTG |
| 16  | LT-PL, PL-SE   | <b>NEMOs:</b> EPEX, Nord Pool, TGE<br><b>TSOs:</b> Litgrid, PSE, Svk   |

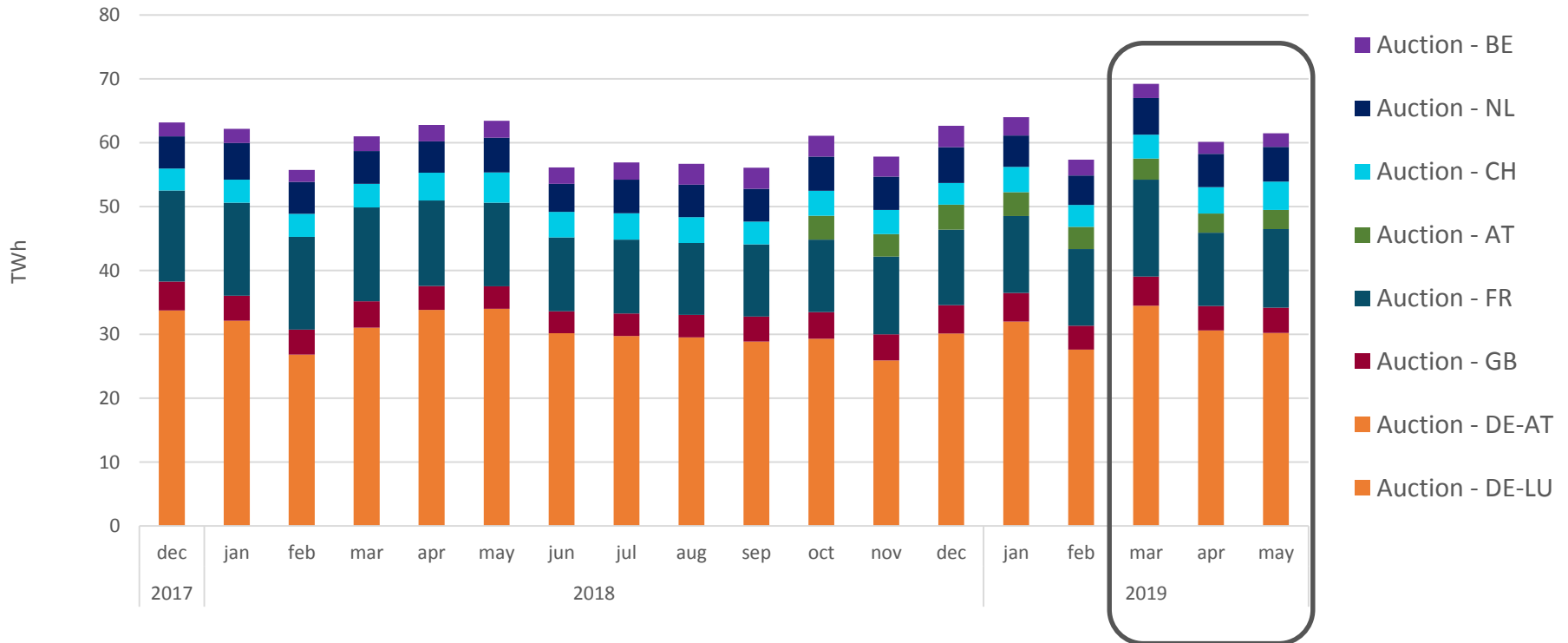
- Operational
- Operational, part of 2nd wave
- 2nd wave

- XBID 2.0 is under development and will be implemented in Q4/2019. Due to the integration of new markets in the Single Integration Coupling a higher liquidity is expected.
- XBID 3.0 is planned in 2020, and will include DC cable transmission losses



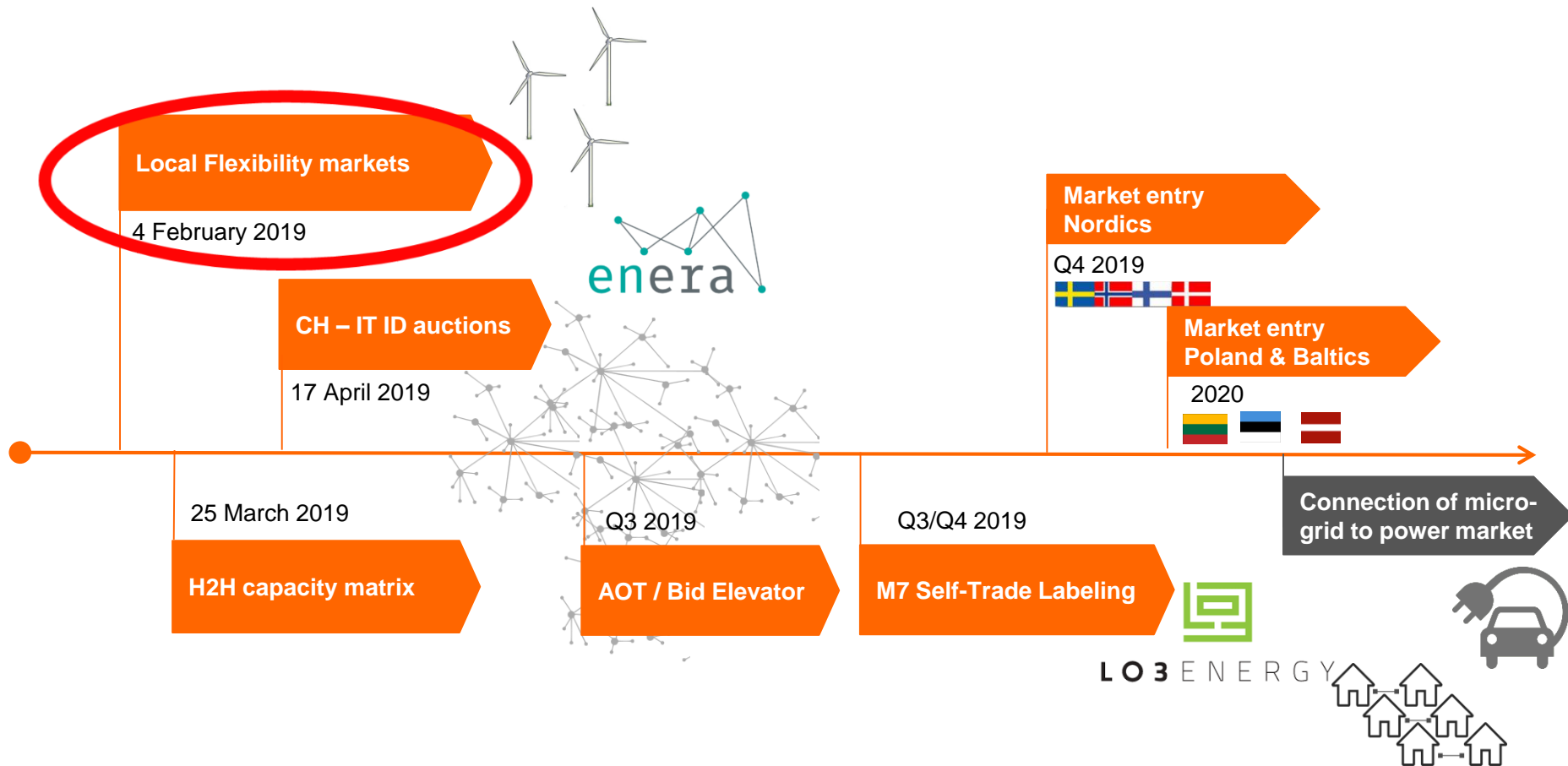
# EPEX SPOT Volumes: Day-Ahead Markets

- **Day-ahead** volume for last 3 months increases by 3.6 TWh compared to Mar '18 to May '18.
  - Mar '19:** Growth driven by DE (34.5 TWh, +6.8 TWh) and good month for FR (15.2 TWh, +0.5 TWh)
  - Apr '19:** Minor increase YoY for GB auction (3.8 TWh) and NL auction (5.2 TWh)
  - May '19:** Stable growth for GB auction (3.9 TWh)



1. Market update
2. **Status of main projects**
3. New developments and outlook

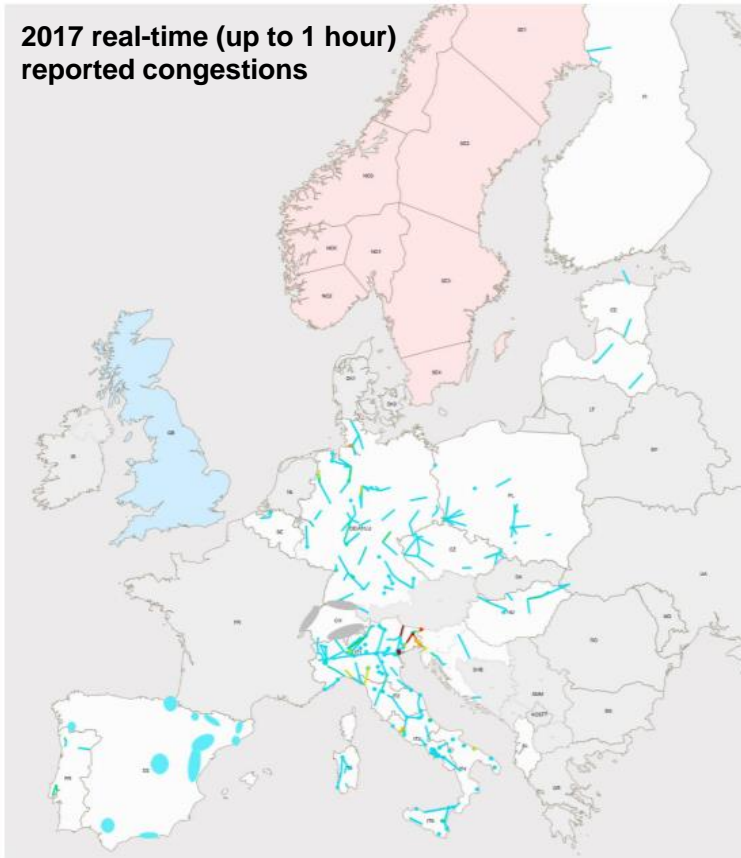
# 2019 – Status of main projects



# Congestions are slowly appearing in Europe

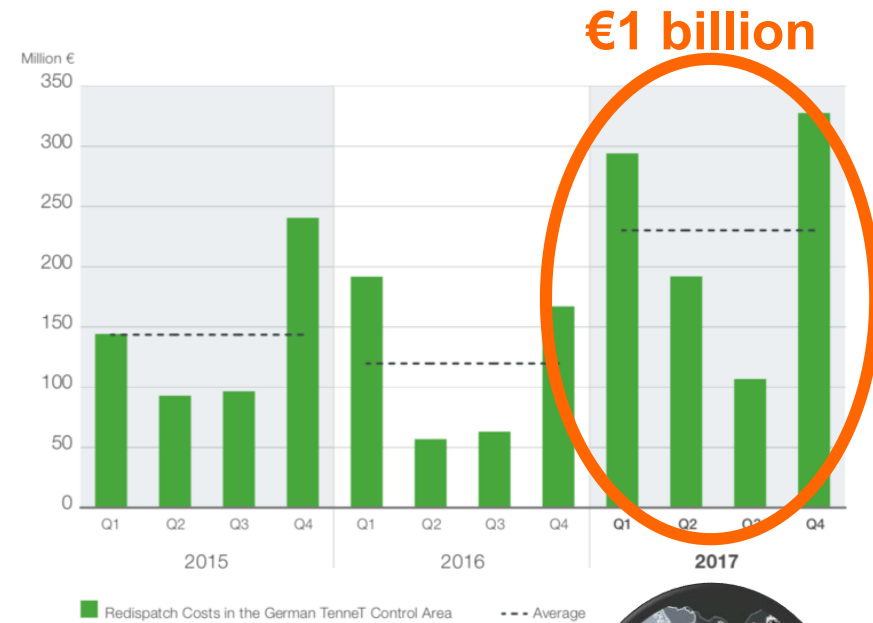


2017 real-time (up to 1 hour) reported congestions



Source: ENTSO-E Regular Reporting on Bidding Zone Configuration – Technical Report 2018

Redispatch costs in the TenneT control area, spreading from the North-West to the South-East of Germany



Source: ENTSO-E Transparency platform



# Local flexibility markets to complement the EU market

wholesale market

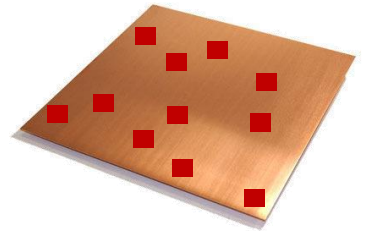
| EU XBID   EPEX | Bid |       | Ask   |     |
|----------------|-----|-------|-------|-----|
| Product        | Qty | Price | Price | Qty |
| DE 03:00       | 10  | 32    | 33    | 25  |
| DE 03:00       | 3   | 31    | 34    | 5   |
| DE 03:00       | 8   | 30    | 35    | 1   |
| DE 03:00       | 7   | 29    | 38    | 4   |



... in parallel to ...

on-demand local orderbooks to relieve congestions

| Local Market 4   | Bid |       | Ask   |     |
|------------------|-----|-------|-------|-----|
| Product          | Qty | Price | Price | Qty |
| DE 03:00 Local 4 | 10  | 32    | 33    | 25  |
| DE 03:00 Local 3 | 3   | 31    | 34    | 5   |
| DE 03:00 Local 2 | 8   | 30    | 35    | 1   |
| DE 03:00 Local 1 | 7   | 29    | 38    | 4   |



# Local flexibility markets to complement the EU market

## FLEXIBILITY SUPPLY

### Flexibility providers:

- Power plants
- Aggregators
- VPPs
- Storage
- Renewables



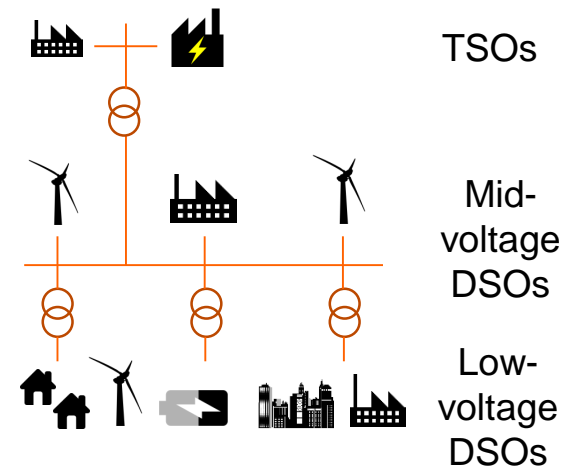
## FLEXIBILITY MARKET PLACE



### Market-based congestion management

- Trading systems
- Standards
- Transparency
- Coordination
- Neutrality

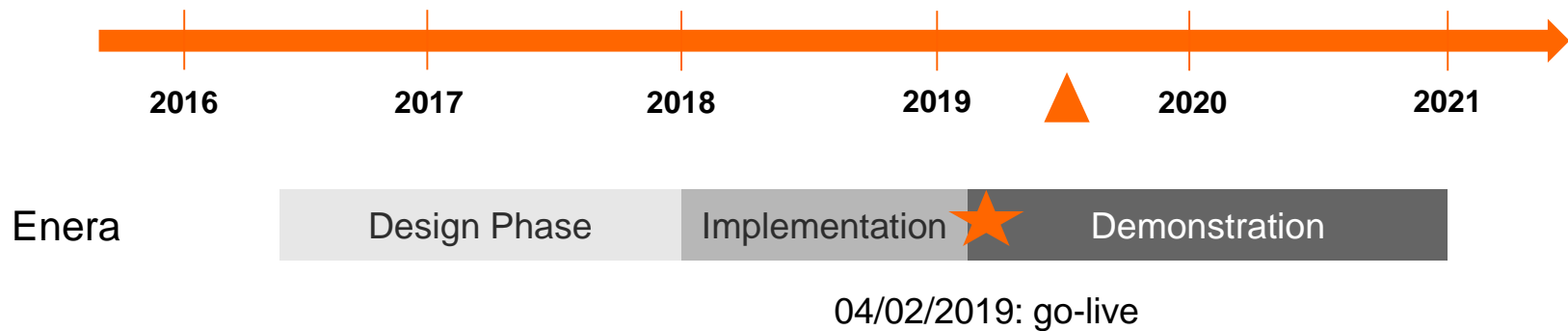
## FLEXIBILITY DEMAND FROM SYSTEM OPERATORS



# 5 months with increasing activity



- Smooth start and increasing activity since then
- Two out of the three regional System Operators joined only very recently
- Activity is expected to keep on increasing when they start being more and more active on the market





# A growing members' base



## Already admitted

| System Operators | Certified Flexibility Providers |
|------------------|---------------------------------|
| EWE Netz         | VW Kraftwerk GmbH               |
| <b>Avacon</b>    | Statkraft Markets               |
| <b>TenneT</b>    | Baywa Re                        |
|                  | EWE Trading                     |
|                  | <b>Quadra Energy</b>            |
|                  | <b>Alpiq SA</b>                 |

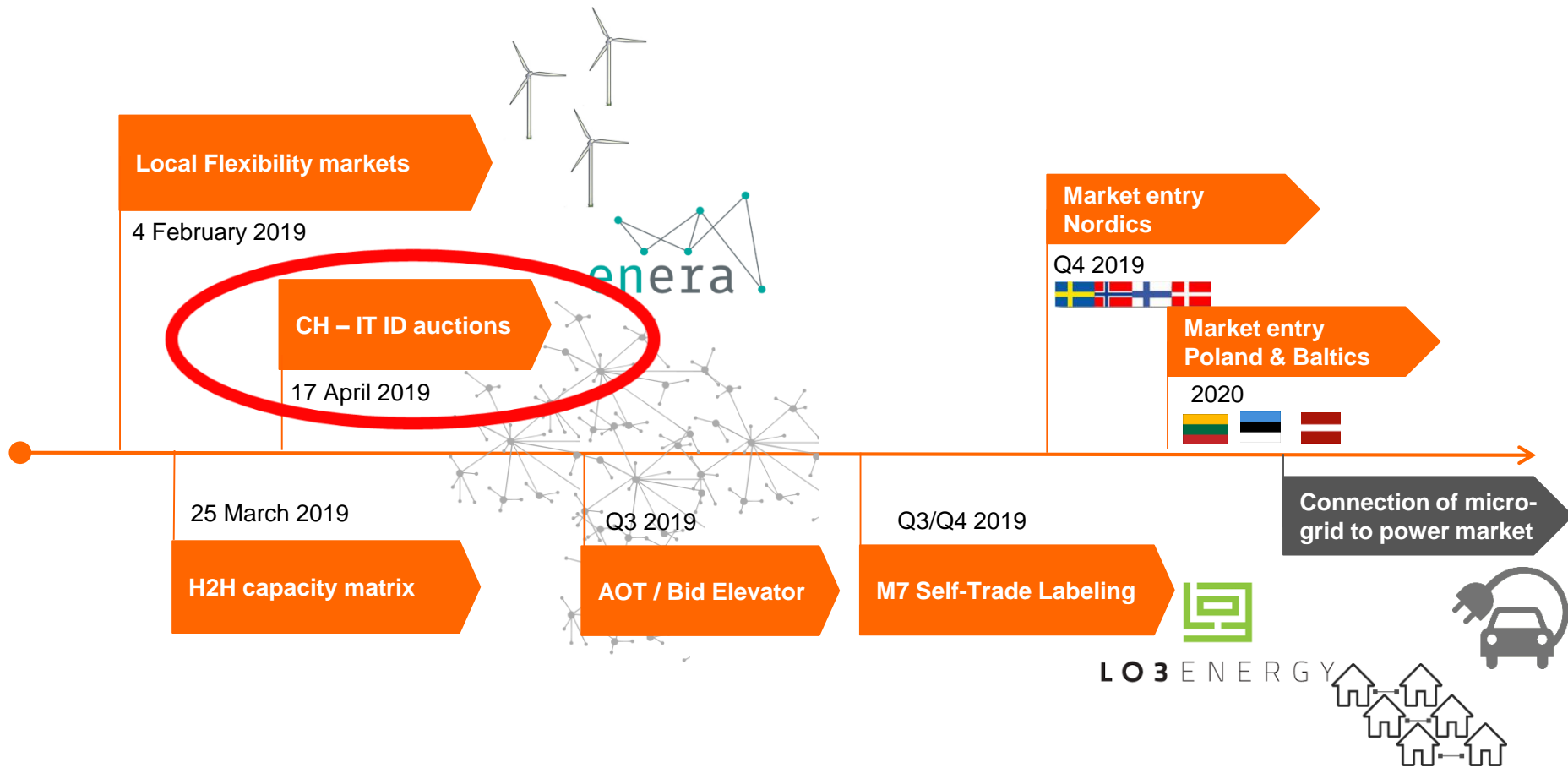
## Admission process ongoing

| System Operators | Certified Flexibility Providers |
|------------------|---------------------------------|
|                  | Flexibility Provider #1         |
|                  | Flexibility Provider #2         |

\*Joined since go-live

- 2 more flexibility providers have approached EPEX membership
- The market is opened to anyone willing to join with assets in the region!

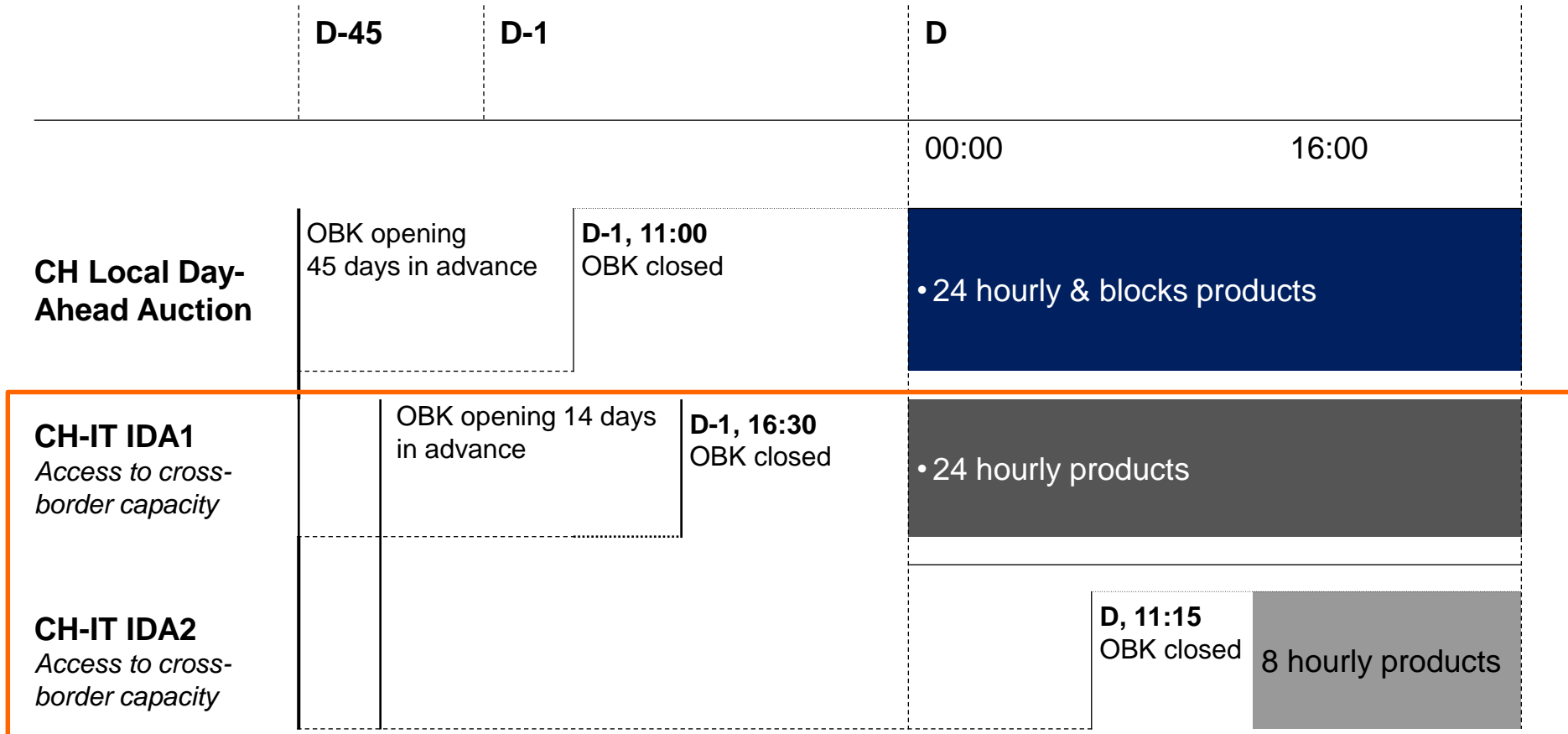
# 2019 – Status of main projects



## New Swiss coupled Intraday auctions – Assessment of first weeks (mid-April / May 2019)

- ✓ 2 new CH-IT Intraday (ID) auctions went live April 17<sup>th</sup>
- ✓ Volumes are comparable to Intraday continuous volumes
- ✓ Optimization of cross-border capacity allocation (when cross-border capacity is available)
- ✓ New TSO methodology for Intraday capacity calculation will be implemented in the second half of 2019, leading eventually to more available capacity for the IDA2 auction
- ✓ The new Swiss Italian ID auctions do not cannibalize the existing continuous market

# Overview of Swiss Intraday Auctions timeline

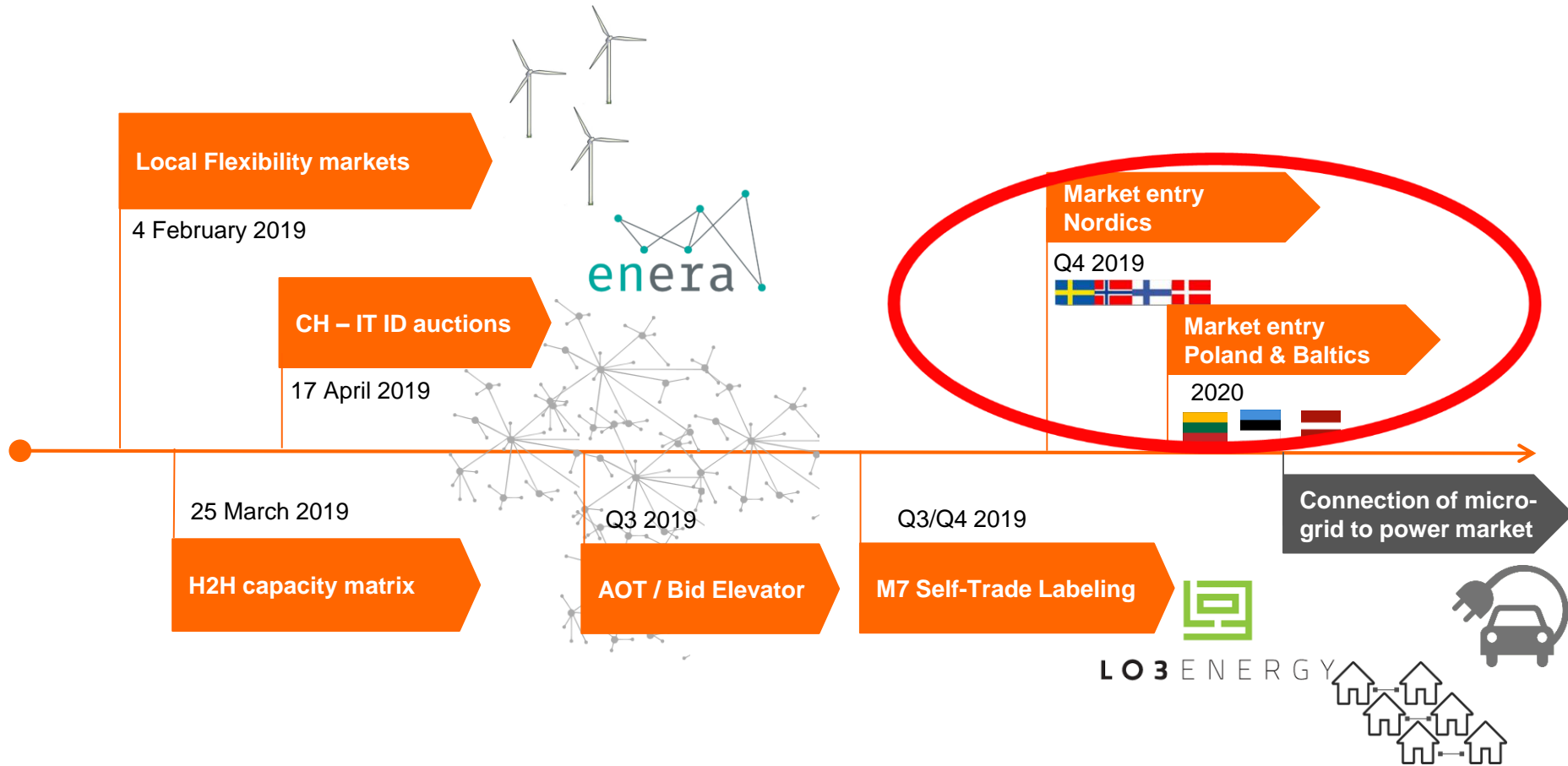


➤ **CH-IT IDA1:** D-1, 4:30pm; **CH-IT IDA2:** D, 11:15am

➤ Hourly auctions, no blocks

➤ Coupled to Italy and Slovenia

# 2019 – Status of main projects



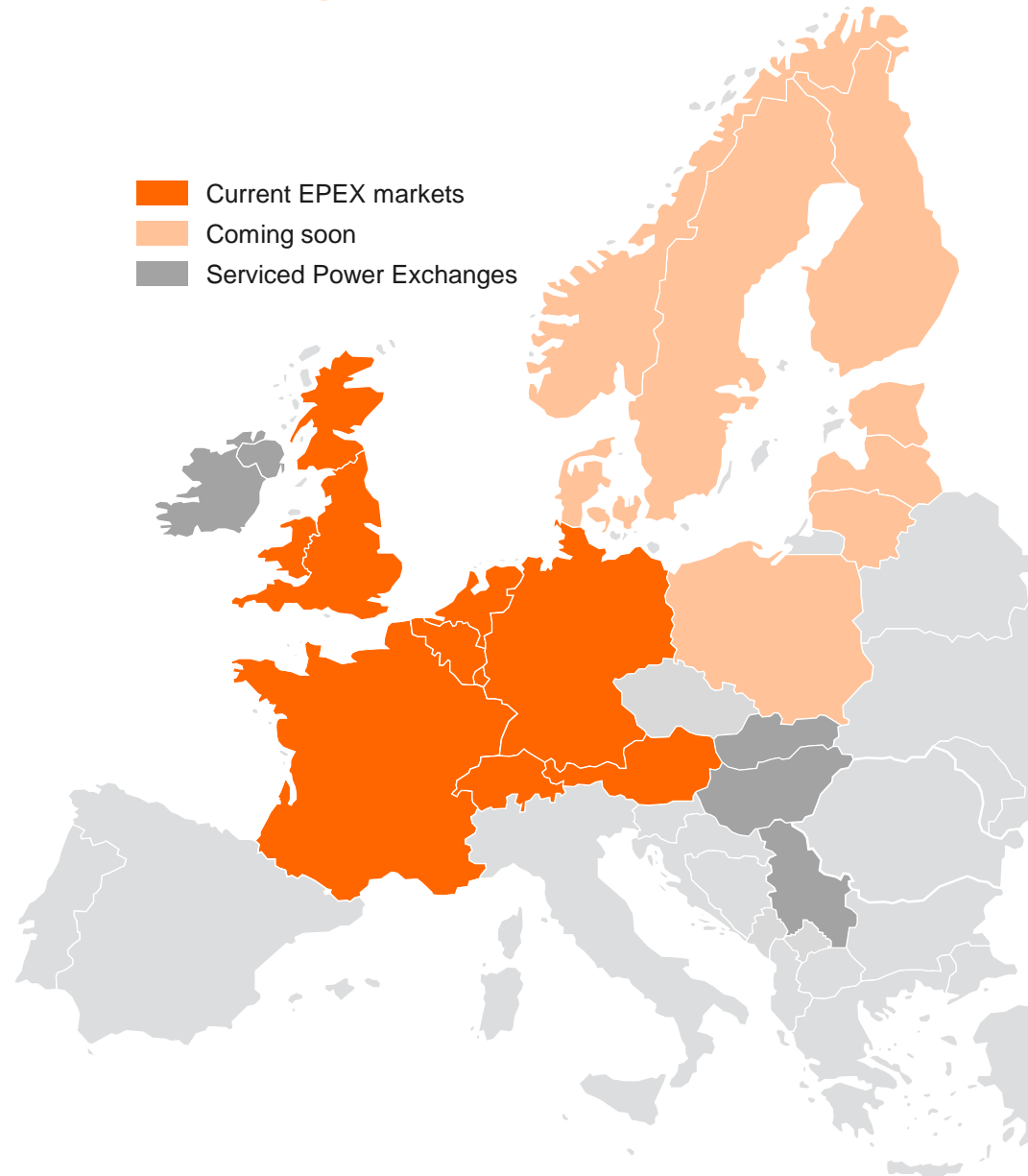
# Nordic - Baltic - Polish market expansion



*EPEX is a licensed NEMO\* in the Nordic, Polish and Baltic regions*

\*Nominated Electricity Market Operator

- Current EPEX markets
- Coming soon
- Serviced Power Exchanges



## What's in it for members?

Operational & IT **Simplification**

Enhanced Trading **Experience**

Financial **Security**

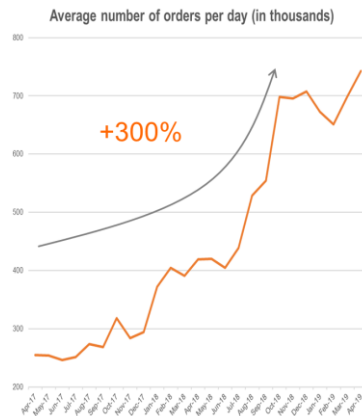
**Economies** of scale

*using EPEX SPOT as your European power spot trading gateway*

# Superior services for the trading community!



**LIQUIDITY FROM DAY 1,  
100% SECURED**



**HIGH PERFORMANCE  
& DIGITAL EXPERIENCE**



**SAFER & ECONOMICAL  
CLEARING**



**PROVIDING THE  
LATEST INNOVATIONS**

1. Market update
2. Status of main projects
3. **New developments and outlook**



# New developments on Auctions

| Recent and upcoming developments in ETS |                |   |
|---|----------------|---|
| <b>DE-AT Split</b>                      | ✓              | <ul style="list-style-type: none"> <li>Implementation of the price zone split as per TSO request</li> </ul>   |
| <b>Curtailable and loop blocks</b>      | ✓              | <ul style="list-style-type: none"> <li>Introduction of curtailable and loop blocks in the Day-Ahead auctions</li> </ul>   |
| <b>CH-IT Intraday auctions</b>          | ✓              | <ul style="list-style-type: none"> <li>Go-live of intraday auctions in Switzerland coupled with Italy</li> </ul>  |
| <b>ETS 3.3.1</b>                        | 26 June        | <ul style="list-style-type: none"> <li>New ETS version with alert in case of non-submission for next auction</li> <li>API access for non-members</li> </ul>           |
| <b>CWE MNA</b>                          | Target: 2 July | <ul style="list-style-type: none"> <li>Go-live of coordination between multiple hubs within each market area in Central Western Europe</li> </ul>                     |
| <b>ETS 3.3.2</b>                        | Q3             | <ul style="list-style-type: none"> <li>Additional reporting information (trade ID and trader ID)</li> <li>More blocks in ID auctions, bigger blocks in DAM</li> </ul> |
| <b>ETS 3.3.4</b>                        | Q4             | <ul style="list-style-type: none"> <li>Auction process automation</li> </ul>  |

# New developments on Auctions

New ETS 3.3.1 version went live on 26 June 2019

Empty Portfolio Alert [Settings]

File Window Help

Global Settings Modules Settings Block Definitions Reasonable Control Parameters **Empty Portfolio Alert**

Import from Excel Export to Excel

Area Set: None Market Area: None Auction Name: None Area: None Portfolio: None

| Area set | Area    | Portfolio   | Auction Name  | Alert Sending (min) |  |
|----------|---------|-------------|---------------|---------------------|--|
| ▶ CWE    | DE-50HZ | ▼ PartA-T01 | ▼ PWR-MRC-D+1 | ▼ 60                |  |
| ▶ CWE    | DE-TPS  | ▼ PartA-T02 | ▼ PWR-MRC-D+1 | ▼ 90                |  |

Add New Alert Clone Remove Reset Update

New alert setting:



Client Messages [Client Messages]

File View Format Settings Window Help

Subject

No submitted order for portfolio PartA-T01 (DE-50HZ - 60 min) for the next auction PWR-MRC-D+1 2019-05-14-12:00 (cct/cest)

No submitted order for portfolio PartA-T02 (DE-TPS - 60 min) for the next auction PWR-MRC-D+1 2019-05-14-12:00 (cct/cest)

No submitted order for portfolio PartA-T01 (DE-50HZ - 60 min) for the next auction PWR-MRC-D+1 2019-05-14-12:00 (cct/cest)

Set status read Set status unread

# Continuous Intraday service improvements

| Recent and upcoming developments |       |   |
|----------------------------------|-------|---|
| <b>Trade Recall automation</b>   | ✓     | Trade recall possibilities are extended (locally and XB*) and automated<br><small>* when technically possible</small> |
| <b>GB market on M7</b>           | ✓     | Migration of the transfer of Intraday trading in GB from the Eurolight to the M7 system in Nov. 2018                  |
| <b>Capacity Display</b>          | ✓     | Show available Hub to Hub capacity between XBID markets   |
| <b>Order transfer</b>            | Q3    | Automatic order transfer functionality between XBID order book and local order book                                   |
| <b>Self-trade flagging</b>       | Q3/Q4 | Flagging of self-trades (cross-trades) to all market participants   |
| <b>XBID extension</b>            | Q4    | Poland, Czech Republic, Hungary, Croatia, Slovenia, Romania, Bulgaria to join XBID                                    |

# M7 Roadmap: Planned releases

## M7 6.6

- **GoLive: 25<sup>th</sup> March 2019**
- **Release goal:** Customer satisfaction
- **Release content:**
  - Cross Border Capacity Display (ComTrader & API)

## M7 6.7

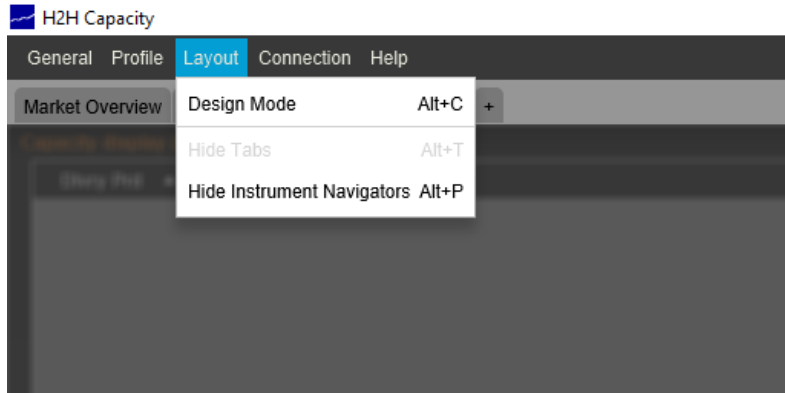
- **Target GoLive: Q3 2019**
- **Release goal:** Customer satisfaction and Operational safety
- **Release content:**
  - Automatic Order Transfer – Download Phase
  - Introduction of “linked” products

## M7 6.8

- **Target GoLive: Q3/Q4 2019**
- **Release goal:** Customer Satisfaction
- **Project Dependencies:** XBID 2.0
- **Release content\*:**
  - XBID related modifications
  - Label Self Trade

\*Pending confirmation

# M7 6.6. Cross Border Capacity Display – How to activate?



← Open Design Mode

Create  
Capacity Display



| Panel                                 | Description   |
|---------------------------------------|---|
| Basket                                | The Basket panel enables the entry of several orders at once into the system.   |
| Block Order Entry Horizontal          | The Block Order Entry Horizontal panel is used to enter or modify block orders. Horizontal arrangement of the fields.             |
| Block Order Entry Vertical            | The Block Order Entry Vertical panel is used to enter or modify block orders. Vertical arrangement of the fields.                 |
| Capacity display (Hub To Hub)         | The Capacity display panel displays a matrix with the available capacity between market areas.                                    |
| Chart                                 | The Chart panel is used to graphically display trading activity ranging from the last hour to the last 24 hours.                  |
| Instruments                           | The standalone Instrument panel provides an overview of all products and contracts tradable by the logged in user.                |
| Market Details                        | The Market Details panel provides a non aggregated overview of the order book of one or more contracts.                           |
| Market Overview (Predefined products) | The Market Overview (Predefined products) panel provides an overview of currently active orders entered for predefined contracts. |

# M7 6.6. Cross Border Capacity Display – How to activate?

General Profile Layout Connection Help My orders: Cancel all Deactivate all Activate all

Market Overview Own Overview H2H x +

Capacity display (Hub To Hub)

Delivery periods

- 15-16
- 16-17
- 17-18
- 18-19
- 19-20
- 20-21
- 21-22
- 22-23
- 23-00

| Divry Prd | AT→BE   | AT→DE      | DE→AT      | AT→FR     | FR→AT     | AT→NL    | NL→AT      | FR→BE   | BE→NL     | NL→BE      | DE→FR      | FR→DE      | DE→NL    | NL→DE      | FR→NL    | NL→FR      |
|-----------|---------|------------|------------|-----------|-----------|----------|------------|---------|-----------|------------|------------|------------|----------|------------|----------|------------|
| 15-16     | → 0.000 | → 0.000    | → 0.000    | → 0.000   | → 0.000   | → 0.000  | → 0.000    | → 0.000 | → 0.000   | → 0.000    | → 0.000    | → 0.000    | → 0.000  | → 0.000    | → 0.000  | → 0.000    |
| 16-17     | → 0.000 | → 0.000    | → 0.000    | → 0.000   | → 0.000   | → 0.000  | → 0.000    | → 0.000 | → 0.000   | → 0.000    | → 0.000    | → 0.000    | → 0.000  | → 0.000    | → 0.000  | → 0.000    |
| 17-18     | → 0.000 | → 0.000    | → 0.000    | → 0.000   | → 0.000   | → 0.000  | → 0.000    | → 0.000 | → 0.000   | → 0.000    | → 0.000    | → 0.000    | → 0.000  | → 0.000    | → 0.000  | → 0.000    |
| 18-19     | → 0.000 | → 0.000    | → 0.000    | → 0.000   | → 0.000   | → 0.000  | → 0.000    | → 0.000 | → 0.000   | → 0.000    | → 0.000    | → 0.000    | → 0.000  | → 0.000    | → 0.000  | → 0.000    |
| 19-20     | → 0.000 | → 0.000    | → 2803.400 | → 0.000   | → 0.000   | → 0.000  | → 2803.400 | → 0.000 | → 0.000   | → 0.000    | → 5437.900 | → 0.000    | → 0.000  | → 4231.300 | → 0.000  | → 4231.300 |
| 20-21     | → 0.000 | → 0.000    | → 2726.500 | → 0.000   | → 0.000   | → 0.000  | → 2726.500 | → 0.000 | → 0.000   | → 0.000    | → 6098.100 | → 0.000    | → 0.000  | → 4838.500 | → 0.000  | → 4838.900 |
| 21-22     | → 0.000 | → 0.000    | → 11.000   | → 0.000   | → 0.000   | → 0.000  | → 11.000   | → 0.000 | → 0.000   | → 0.000    | → 1.000    | → 0.000    | → 0.000  | → 8301.400 | → 0.000  | → 1.000    |
| 22-23     | → 0.000 | → 1168.600 | → 1545.500 | → 760.400 | → 458.600 | → 55.600 | → 1545.500 | → 0.000 | → 164.900 | → 0.000    | → 760.400  | → 458.600  | → 55.600 | → 3828.400 | → 55.600 | → 760.400  |
| 23-00     | → 0.000 | → 2150.900 | → 194.400  | → 100.100 | → 194.400 | → 0.000  | → 194.400  | → 0.000 | → 0.000   | → 1402.100 | → 100.100  | → 2341.900 | → 0.000  | → 5084.200 | → 0.000  | → 1502.200 |

Capacity display (Hub To Hub)

Search

| Show                                | Column    | Color   | Description                               |
|-------------------------------------|-----------|---------|---|
| <input checked="" type="checkbox"/> | Divry Prd | Default | Delivery Period                           |
| <input checked="" type="checkbox"/> | AT→BE     | Default | Available Transfer Capacity from AT to BE |
| <input type="checkbox"/>            | BE→AT     | Default | Available Transfer Capacity from BE to AT |
| <input checked="" type="checkbox"/> | AT→DE     | Default | Available Transfer Capacity from AT to DE |
| <input checked="" type="checkbox"/> | DE→AT     | Default | Available Transfer Capacity from DE to AT |
| <input checked="" type="checkbox"/> | AT→FR     | Default | Available Transfer Capacity from AT to FR |
| <input checked="" type="checkbox"/> | FR→AT     | Default | Available Transfer Capacity from FR to AT |
| <input checked="" type="checkbox"/> | AT→NL     | Default | Available Transfer Capacity from AT to NL |
| <input checked="" type="checkbox"/> | NL→AT     | Default | Available Transfer Capacity from NL to AT |
| <input type="checkbox"/>            | BE→DE     | Default | Available Transfer Capacity from BE to DE |
| <input type="checkbox"/>            | DE→BE     | Default | Available Transfer Capacity from DE to BE |
| <input type="checkbox"/>            | BE→FR     | Default | Available Transfer Capacity from BE to FR |

+ Add Separator Hint: Use Drag&Drop to change the order of the columns

Close

Today Receiving H2H data

**Note1:** Function initially activated by Market Operations per User

**Note2:** Both direction seperately per border

# Focus on M7 6.7 Release

- M7 6.7 to go live in Q3
- Released in Advanced Simulation Environment
- Market Trial phase of three weeks: 24 June – 15 July (week 26-28)
  - Scripts to create more order/trade activity
  - XBID disconnection / reconnection to simulate the switch of the local contracts (two times per day -> approx. 10am / 3pm for 30mn)
- **New ComTrader 6.7.90 will be mandatory**

# M7 6.7 - New product names

## Overview

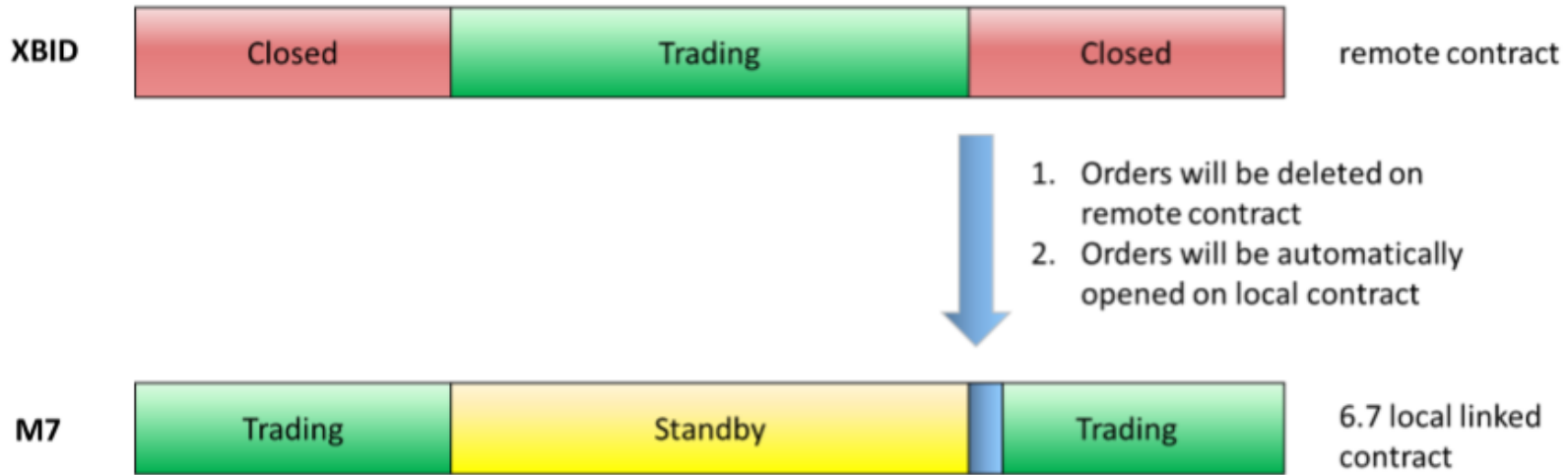
| Current Product Name | New Product Name            | Contract Name | Concerned Markets      |
|----------------------|-----------------------------|---------------|------------------------|
| Intraday_Power       | Intraday_Hour_Power         | i.e. 14-15    | CH, FR, DE, AU, BE, NL |
| Half_Hour_Power      | Intraday_Half_Hour_Power    | i.e. 14H1     | CH, FR, DE             |
| Quarterly_Hour_Power | Intraday_Quarter_Hour_Power | i.e. 14Q1     | CH, DE, AU, BE, NL     |
| Hourly_Blocks        | Intraday_Hour_Power         | i.e. 14-16    | CH, FR, DE, AU, BE, NL |

## Continuous export

| Trader Id | TSO | EIC              | B/S | Product                     | Contract                      | Qty | Prc   | Curr | Act | Te |
|-----------|-----|------------------|-----|-----------------------------|-------------------------------|-----|-------|------|-----|----|
| TRD021    | AMP | 10YDE-RWENET---I | B   | Intraday_Quarter_Hour_Power | 20190623 13:15-20190623 13:30 | 7.0 | 50.00 | EUR  | P   |    |
| TRD021    | AMP | 10YDE-RWENET---I | S   | Intraday_Quarter_Hour_Power | 20190623 13:15-20190623 13:30 | 7.0 | 50.00 | EUR  | P   |    |

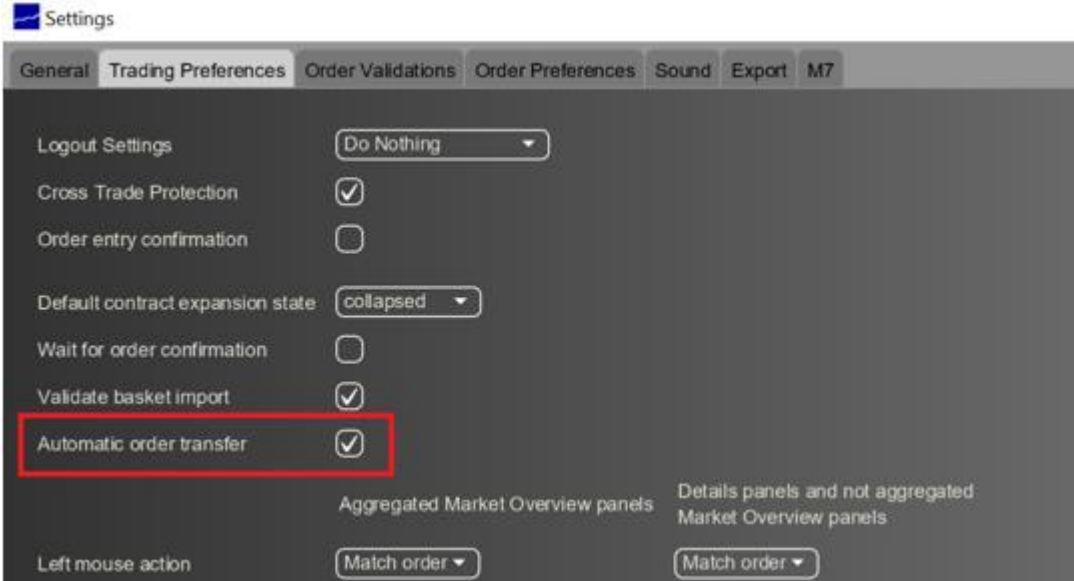


# M7 6.7 - Automatic Order Transfer



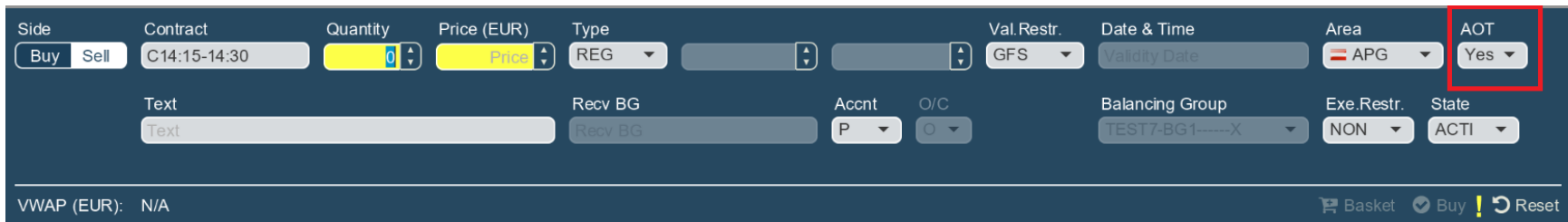
| AOT applies AOT                     | AOT does not apply                     |
|-------------------------------------|--|
| At usual remote contract expiration | Any planned XBID maintenance           |
|                                     | Any unplanned XBID maintenance         |
|                                     | From local products to remote products |

# M7 6.7 - Automatic Order Transfer



← general setting

individual per order



# M7 6.7 - Automatic Order Transfer

## Before AOT

| Market Overview (Predefined products) |                 |     |       |       |      |       |       |      |      |       |       |       |       |      |      |       |      |      |      |
|---------------------------------------|-----------------|-----|-------|-------|------|-------|-------|------|------|-------|-------|-------|-------|------|------|-------|------|------|------|
| Area                                  | Ctrct           | Cur | Phase | State | BAcc | OIBid | BIQty | OBid | BQty | BVWA  | Bid   | Ask   | AVWA  | AQty | OAsk | AIQty | OAsk | AAcc | LQty |
| AMP                                   | 19Q1            | EUR | CLSD  | STBY  |      |       |       |      |      |       |       |       |       |      |      |       |      |      |      |
| AMP                                   | Q19:00-19:15_XB | EUR | CONT  | ACTI  | 3.6  |       |       |      | 3.6  | 33.25 | 33.25 | 45.00 | 45.00 | 7.0  | 7.0  |       |      |      | 7.0  |

| Own Order |      |     |       |     |      |      |      |     |      |       |      |      |    |     |          |       |       |                     |        |     |
|-----------|------|-----|-------|-----|------|------|------|-----|------|-------|------|------|----|-----|----------|-------|-------|---------------------|--------|-----|
| UsrCode   | Area | B/S | Ctr▲  | Tm  | IQty | Qty  | PQty | PPD | SQty | Prc   | SPrc | Acct | St | AOT | PreAotID | ExeRe | ValRe | ValDate             | OrdriD | Txt |
| TRD021    | AMP  | S   | Q19:0 | CET | 7.0  | 7.0  |      |     | 7.0  | 45.00 |      | P    | ✓  | Yes |          | NON   | GFS   | 23.06.2019 18:30:00 | 118249 |     |
| TRD021    | AMP  | B   | Q19:0 | CET | 89.0 | 89.0 |      |     | 89.0 | 33.00 |      | P    | ✓  | No  |          | NON   | GFS   | 23.06.2019 18:30:00 | 118249 |     |

## After AOT

| Market Overview (Predefined products) |                 |     |       |       |      |       |       |      |      |      |     |       |       |      |      |       |      |      |      |      |
|---------------------------------------|-----------------|-----|-------|-------|------|-------|-------|------|------|------|-----|-------|-------|------|------|-------|------|------|------|------|
| Area                                  | Ctrct           | Cur | Phase | State | BAcc | OIBid | BIQty | OBid | BQty | BVWA | Bid | Ask   | AVWA  | AQty | OAsk | AIQty | OAsk | AAcc | LQty | LPrc |
| AMP                                   | 19Q1            | EUR | CONT  | ACTI  |      |       |       |      |      |      |     | 45.00 | 45.00 | 7.0  | 7.0  |       |      |      | 7.0  |      |
| AMP                                   | Q19:00-19:15_XB | EUR | CLSD  | ACTI  |      |       |       |      |      |      |     |       |       |      |      |       |      |      |      |      |

| Own Order |      |     |      |     |      |     |      |     |      |       |      |      |    |     |          |       |       |                     |        |     |
|-----------|------|-----|------|-----|------|-----|------|-----|------|-------|------|------|----|-----|----------|-------|-------|---------------------|--------|-----|
| UsrCode   | Area | B/S | Ctr▲ | Tm  | IQty | Qty | PQty | PPD | SQty | Prc   | SPrc | Acct | St | AOT | PreAotID | ExeRe | ValRe | ValDate             | OrdriD | Txt |
| TRD021    | AMP  | S   | 19Q1 | CET | 7.0  | 7.0 |      |     | 7.0  | 45.00 |      | P    | ✓  | No  | 11824947 | NON   | GFS   | 23.06.2019 18:55:00 | 118249 |     |

# M7 6.7 - Automatic Order Transfer

## Basket

| Basket |     |                 |     |      |    |    |        |    |      |      |     |     |        |        |        |     |                 |     |
|--------|-----|-----------------|-----|------|----|----|--------|----|------|------|-----|-----|--------|--------|--------|-----|-----------------|-----|
| Area   | B/S | Ctrct           | RCt | Qty  | PQ | PP | Prc    | SP | Accn | Type | Sta | AOT | ExeRes | ValRes | ValDat | Txt | BG              | O/C |
| AMP    | S   | Q13:30-13:45_XB |     | 5.0  |    |    | 100.00 |    | P    | REG  | ✓   | Yes | NON    | GFS    |        |     | 11XTM2-TM-----1 |     |
| AMP    | S   | Q13:30-13:45_XB |     | 20.0 |    |    | 150.00 |    | P    | REG  | ✓   | No  | NON    | GFS    |        |     | 11XTM2-TM-----1 |     |

## Order Export

| Own Order                    |      |                        |          |     |      |      |      |     |      |       |      |       |    |     |          |       |       |                     |        |
|------------------------------|------|------------------------|----------|-----|------|------|------|-----|------|-------|------|-------|----|-----|----------|-------|-------|---------------------|--------|
| Export All to CSV file       |      | Copy All (Excel)       |          |     |      |      |      |     |      |       |      |       |    |     |          |       |       |                     |        |
| Export Selection to CSV file |      | Copy Selection (Excel) |          |     |      |      |      |     |      |       |      |       |    |     |          |       |       |                     |        |
| UsrCode                      | Area | B/S                    | Ctrct    | Tm  | IQty | Qty  | PQty | PPD | SQty | Prc   | SPrc | Accnt | St | AOT | PreAotID | ExeRe | ValRe | ValDate             | OrdrID |
| TRD021                       | AMP  | S                      | Q20:30-2 | CET | 44.0 | 44.0 |      |     | 44.0 | 63.00 |      | P     | ✓  | Yes |          | NON   | GFS   | 23.06.2019 20:00:00 | 118249 |

# M7 6.7 - Changes in TC540

|     | ns1:curr | ns1:product                 | ns1:ordrNo | ns1:remoteOrdNo |
|-----|----------|-----------------------------|------------|-----------------|
| :45 | EUR      | XBID_Quarter_Hour_Power     | 118248706  | 3273756         |
| :30 | EUR      | Intraday_Quarter_Hour_Power | 118248681  |                 |
| :45 | EUR      | Intraday_Quarter_Hour_Power | 118248707  |                 |

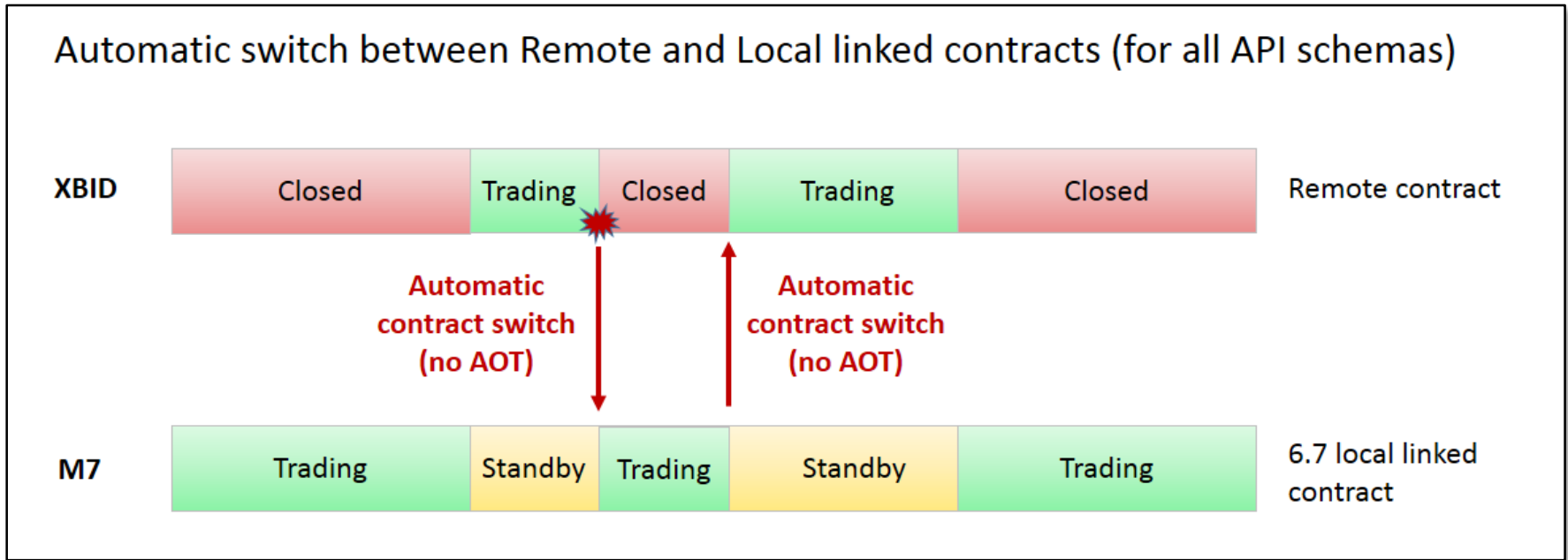
New local Names

| ns1:ordrInitialNo | ns1:or | ns1:acc | ns1:text | ns1:aot | ns1:applicationVer | ns1:preAotId | ns1:va |
|-------------------|--------|---------|----------|---------|--------------------|--------------|--------|
| 118248706         | B      | P1      |          | TRUE    | 6.7 90             |              |        |
| 118248681         | B      | P1      |          | FALSE   | 6.7 90             |              |        |
| 118248707         | B      | P1      |          | FALSE   | 6.7 90             | 118248706    |        |

New Identifier

New Identifier

# M7 6.7 - Automatic switch of local contracts



At each contract switch:

- Remote and local contracts change of phase and state (*Contract Info Reports*)
- Orders of the closing contract are deactivated (*Order Execution Reports*)
- Existing deactivated orders are not reactivated automatically

# M7 6.7 - Automatic switch of local contracts

## Before XBID disconnection

| Area | Ctrct           | Cur | Phase | State | BAcc | OIBid | BIQty | OBid | BQty | BVWA | Bid | Ask   | AVWA  | AQty | OAsk | AIQty | OAsk | AAcc | LQty | LPrc | TQty | TOB |
|------|-----------------|-----|-------|-------|------|-------|-------|------|------|------|-----|-------|-------|------|------|-------|------|------|------|------|------|-----|
| AMP  | 20Q3            | EUR | CLSD  | STBY  |      |       |       |      |      |      |     | 63.00 | 63.00 | 44.0 | 44.0 |       |      | 44.0 |      |      |      |     |
| AMP  | Q20:30-20:45_XB | EUR | CONT  | ACTI  |      |       |       |      |      |      |     |       |       |      |      |       |      |      |      |      |      |     |

## After XBID disconnection

| Area | Ctrct | Cur | Phase | State | BAcc | OIBid | BIQty | OBid | BQty | BVWA | Bid | Ask | AVWA | AQty | OAsk | AIQty | OAsk | AAcc | LQty | LPrc | TQty | TOB |
|------|-------|-----|-------|-------|------|-------|-------|------|------|------|-----|-----|------|------|------|-------|------|------|------|------|------|-----|
| AMP  | 20Q3  | EUR | CONT  | ACTI  |      |       |       |      |      |      |     |     |      |      |      |       |      |      |      |      |      |     |

**Note1:** AOT does not apply, order disappears from order book and own order panel

**Note2:** Order is shown as deactivated in own order panel after reconnection to XBID

## M7 6.7 Password Policy change

- With M7 6.7 each user password needs to be changed every 90 days, no matter if the user is active or not.
- The user will be informed twice about the upcoming password expiration via e-mail (10 days before expiration / at the expiration day).
- The password cannot be the same as the previous one.
- The password validity will start after the first login.



# Thank you for your attention!

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