



User Group Meeting

3rd October 2019

Agenda

- Operations Update***
- European Integration*
- Service Improvements*
- Helpdesk and Registration*
- Service Development*
- Brexit*
- Question and Answer*

SEMOpX operation since go-live

Exchange Members

50

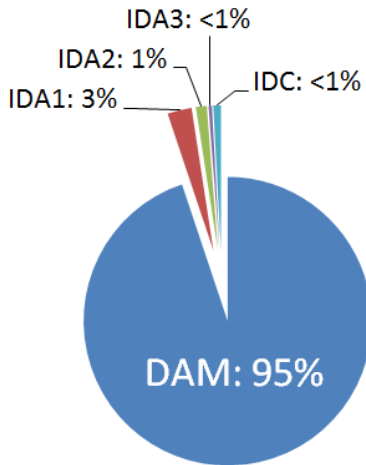
€2.4b

Trade for first year

€6.5m

Trade per Day

Volumes by Market



11%

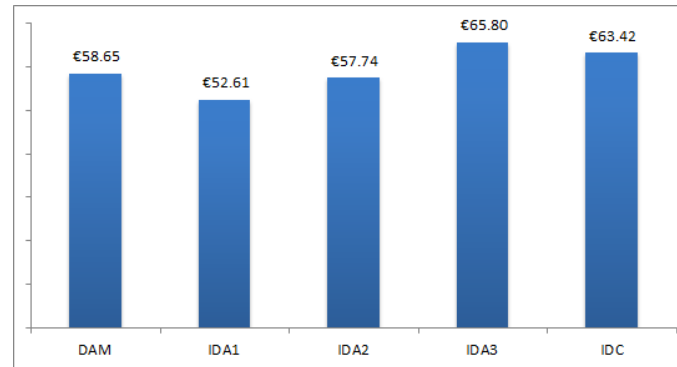
Interconnector trades as proportion of total Ex-Ante trade

40 TWH

Trade for first year

Auctions Successfully Completed

1460



Volume Weighted Average Prices for first year

1

Market Coupling Incident

SEMOpX Rules & ECC Clearing Conditions

SEMOpX Rules and Operating Procedure Updates

- V2.0 published 20th Sept 2019
- Includes all approved mods to date



Pre-Go Live

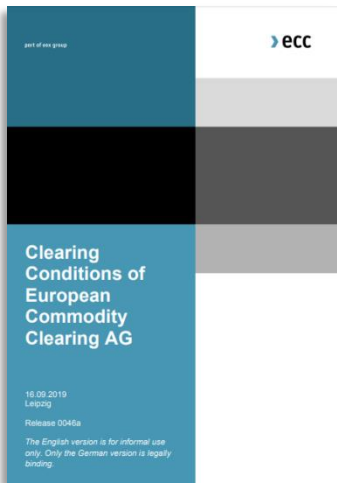
MCF_07: Clearing House Actions to Minimise Exposures
MCR_06: Liability Terms
MCF_04: Market Coupling Facilitor
MCF_02 Trading Halt if Clearing House Requests
MCR_01 No Trading When Not Authorised Under TSC

Post Go Live

- SPX_01_19: SEMOpX Data Publication Guide (market data reports and timings)
- SPX_04_18: SEMOpX Data Publication Guide (SEMOpX DPG)
- SEPX_03_18: Rules Glossary Corrections
- SPEX_02_18: Changes to Definitions of Matched...

On Hold or New

- SPX_01_18: Submission of Cross Zonal Capacities
- Others by 6th November



ECC Clearing Conditions “Restructuring” [\(SEMOpX market message\)](#)

Exchange Committee

Last Meeting

2019 MAY						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Next Meeting

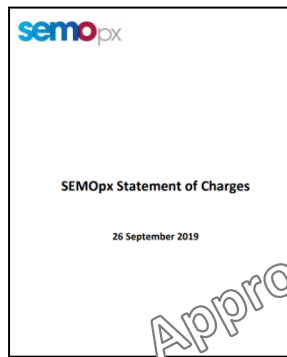
2019 NOVEMBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- Two Exchange Committee Meeting held since go live
- Next one scheduled for 27th November
- Limited number of modifications raised and considered to date
- Deadline for submission of modifications for November meeting is 6th November 2019.

NEMO Regulation



- **NEMO Designation**
 - Period to 2nd October 2022
 - EirGrid/SONI for Ireland/Northern Ireland respectively
 - Approved by Regulatory Authorities in May 2019



- **SEMOpx Statement of Charges**
 - RA approved values for 2019/2020 are published
 - Fees are the same as last year (allowing for updated exchange rate conversion for £ amounts)
 - *Clarification:* Additional user login fees for Oct 19 – Sept 20 will be billed in November.

- **SEMOpx Price Control**

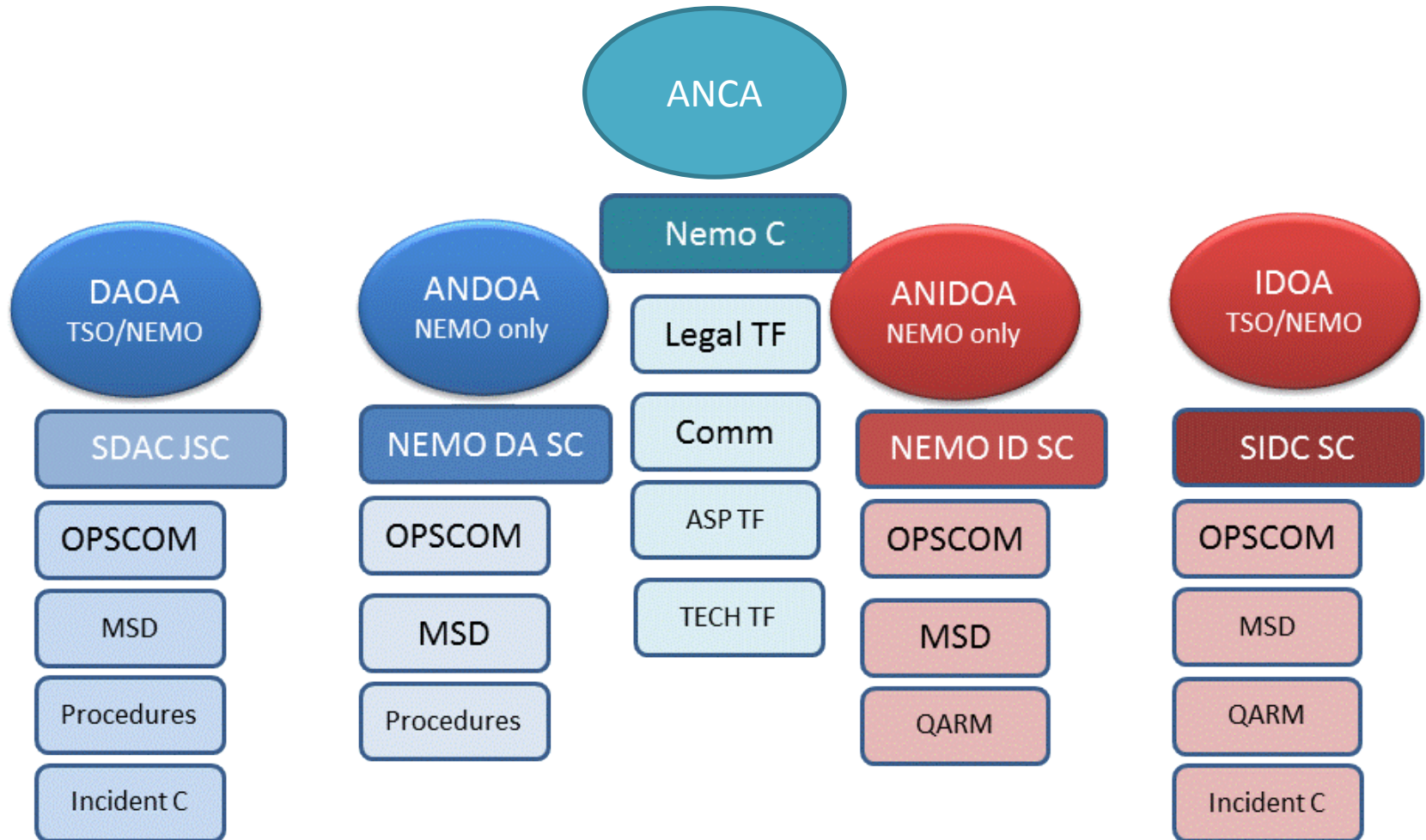
- 3 year period (Oct 2019 to October 2022)
- SEMOpx have made submission
- RA public consultation due out soon

Consultation
to follow

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- Question and Answer*

Governance architecture in ex-ante markets



SIDC/SDAC

Topics discussed/issues resolved are varied

- NEMO Committee
 - Governance
 - Change control methodologies
 - Project on Intra-Day Auctions
- SDAC
 - Incidents (e.g. decoupling incident)
 - MNA projects
 - Budget
 - Request for Change
- SIDC
 - Transit shipping
 - 2nd wave Go- Live (November 2019)
 - 3rd wave Go-Live Q4 2020

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Service Improvements

Engagement

Vast majority of queries answered within 10 days

[Calendar](#) activated on website

Trading Platform

Simu 1 – tests for current production

Simu 2 – tests for new releases

Simu 3 – closed Aug 2019

Data Provision

[Ex-Ante Market Look Back](#)

[Continuous Market overview](#)

Historic Files

- [Bid Files](#) [Market Results](#) [IDC Order Files](#) [IDC Trade Files](#)

Missed publication of static files is now the exception.

Regulatory reporting

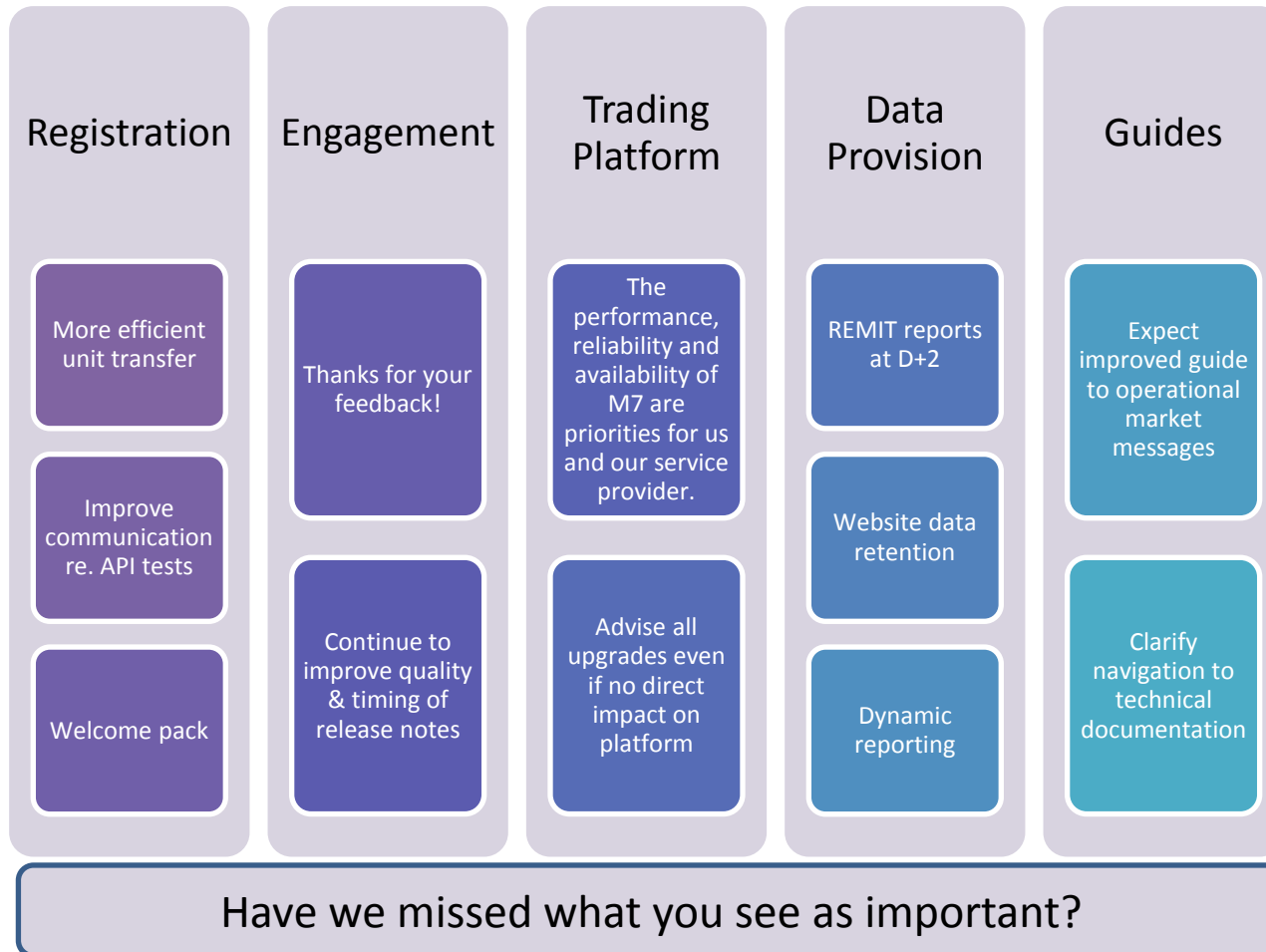
Trades with zero prices not reported for REMIT up to Jul 2019

Issue fixed Aug 2019

Backdating timeline to be advised

Data Publication guide
*Nov 2019

Future Service Improvements

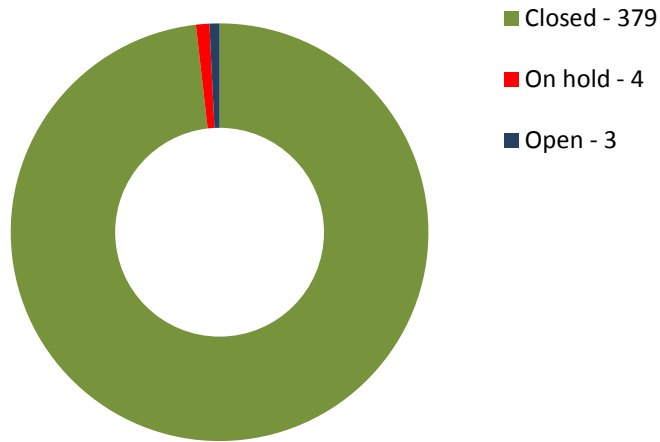


Agenda

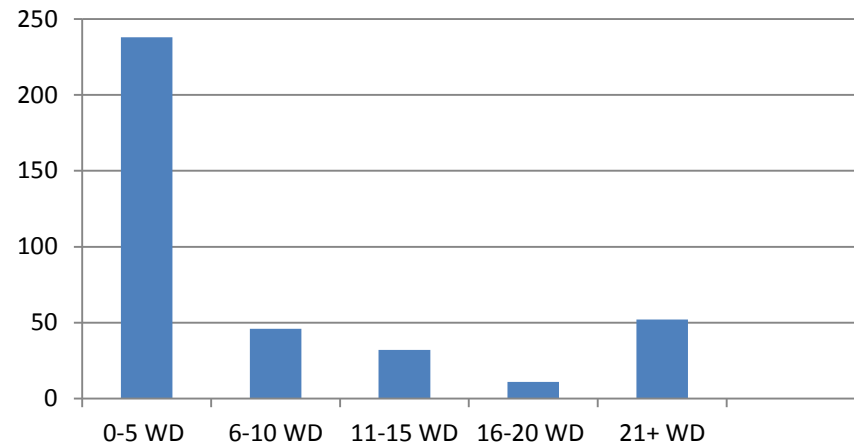
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SEMOpX Helpdesk – Stats

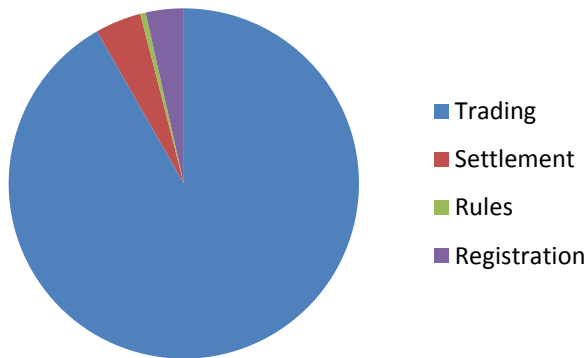
Overall Status



Resolution Times



Query Breakdown



- New Query Management System implemented in August 2019
Minimum impact to Members, change to reference numbers only
- We have seen a reduction in data requests as a result of the useful Summary Market data available on our website (updated monthly)

*Trading includes ETS & M7 platform, data requests, market analysis queries

SEMOpX Helpdesk

- As promised in our last user group an additional “option 4” was added for contacting the Registration Team directly.
- Otherwise our contact details remain unchanged.
- Find out more about the best way to get in touch depending on your question from our [SEMOpX Contacts guidelines](#).

Contact Us

* Indicates a mandatory field

Enquiry Type *

Name *

Email *

Select

- Password or log in issues
- Bid submission issues
- Auctions
- Intraday Continuous
- Registration

- For any password or log in issues please contact marketops@ops.semopx.com or call using above details (option 1) this is available 24/7

SEMOpX Helpdesk

Republic of Ireland: **1800 283 010**

Northern Ireland: **0800 008 3010**

International: **+353 1 668 8183**

The SEMOpX Helpdesk is available Mon-Fri from 9.00am until 5.00pm, for all general queries or non-urgent operational queries.

1. Urgent Auction operational issues:	24 hr	marketops@ops.semopx.com
2. Urgent Continuous operational issues:	24 hr	marketops@ops.semopx.com
3. General queries:	9-5	info@semopx.com
4. Registration queries:	9-5	registration@semopx.com

SEMOpX customer support for urgent queries is available 24/7, 365 days a year.

This should only be used for emergency operational issues relating to Day-Ahead Market and Intraday Market.

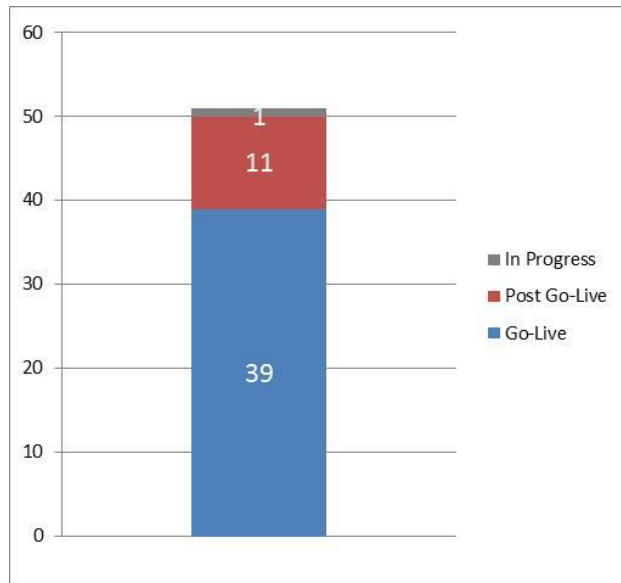
Tips for Staying Informed

Subscribe to Market Messages	Sample Notifications
SEMOpX Systems & Interfaces	Planned ETS and M7 maintenance alerts
SEMOpX Rules & Modifications	Exchange Committee Updates
SEMOpX	For all other things SEMOpX

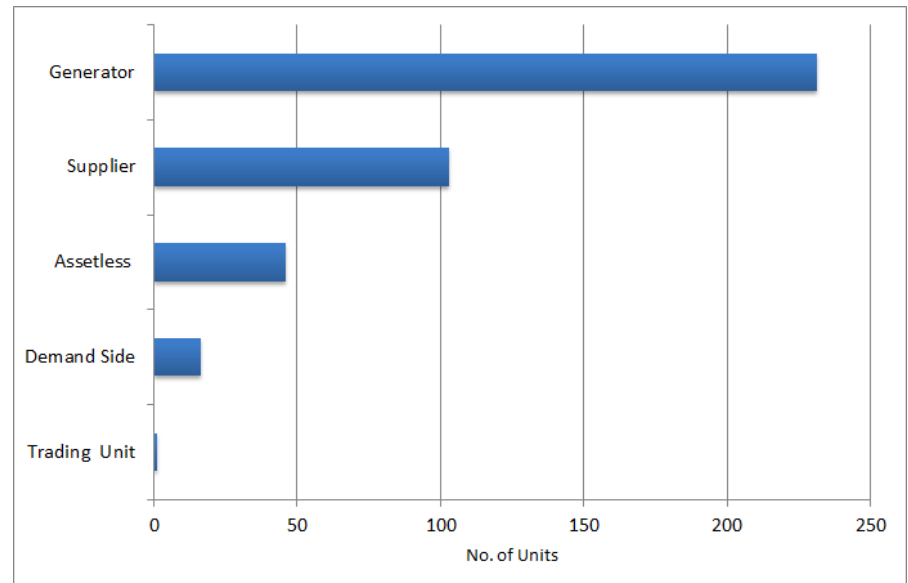
- Monitor your list of registered Traders
 - These are the only contacts that are sent urgent operational market messages
 - To add a new trader, get in touch with registration@semopx.com and request the latest S07 form for completion

SEMOpX Registration– The Numbers

50 Registered Members



397 Registered Units



- New & Changed Unit Registrations appear to be the focus for the immediate future

SEMOpX Registration – Things to note

Registration Timelines

- On receipt of your registration pack, it can take up to **60 working days** to make the new Party, Participant and Unit and Users effective in the Balancing Market Interface and the Member, Unit, Users and Traders in **SEMOpX Platforms** (ETS & M7)
- **Addition of New Members:** requires 10 working days to implement in the systems **after admission confirmed**, and must be effective on a Wednesday.
- **Addition of New Units:** requires 5 working days to implement in the systems **after admission confirmed**, and must be effective on a Wednesday.
- **For other changes to setup:** e.g. New Users, Traders, change in ACER code, Trade Recall contact change, IT contact change, typically requires 5 working days to implement in the systems after approved, but may be facilitated in short timeframes (dependent on volumes)

Users vs Traders

- User - is the actual user name and password to log into ETS, or M7 or SMSS
- Trader - Is the individual i.e. a real person who has been authorised as a trader by the member

<https://www.semopx.com/joining-the-market/how-to-join/>

SEMOpX Registration – Registration Freeze

- Balancing market operator advised a Christmas/New Year registration freeze
- Impacts on SEMOpX member and unit registrations as link between effective dates
- SEMOpX related registration freeze:
 - From *Thursday 19th December 2019 through to Tuesday 7th January 2020 inclusive.*
- Off system registration elements can be progressed, it is only the systems updates that are frozen.

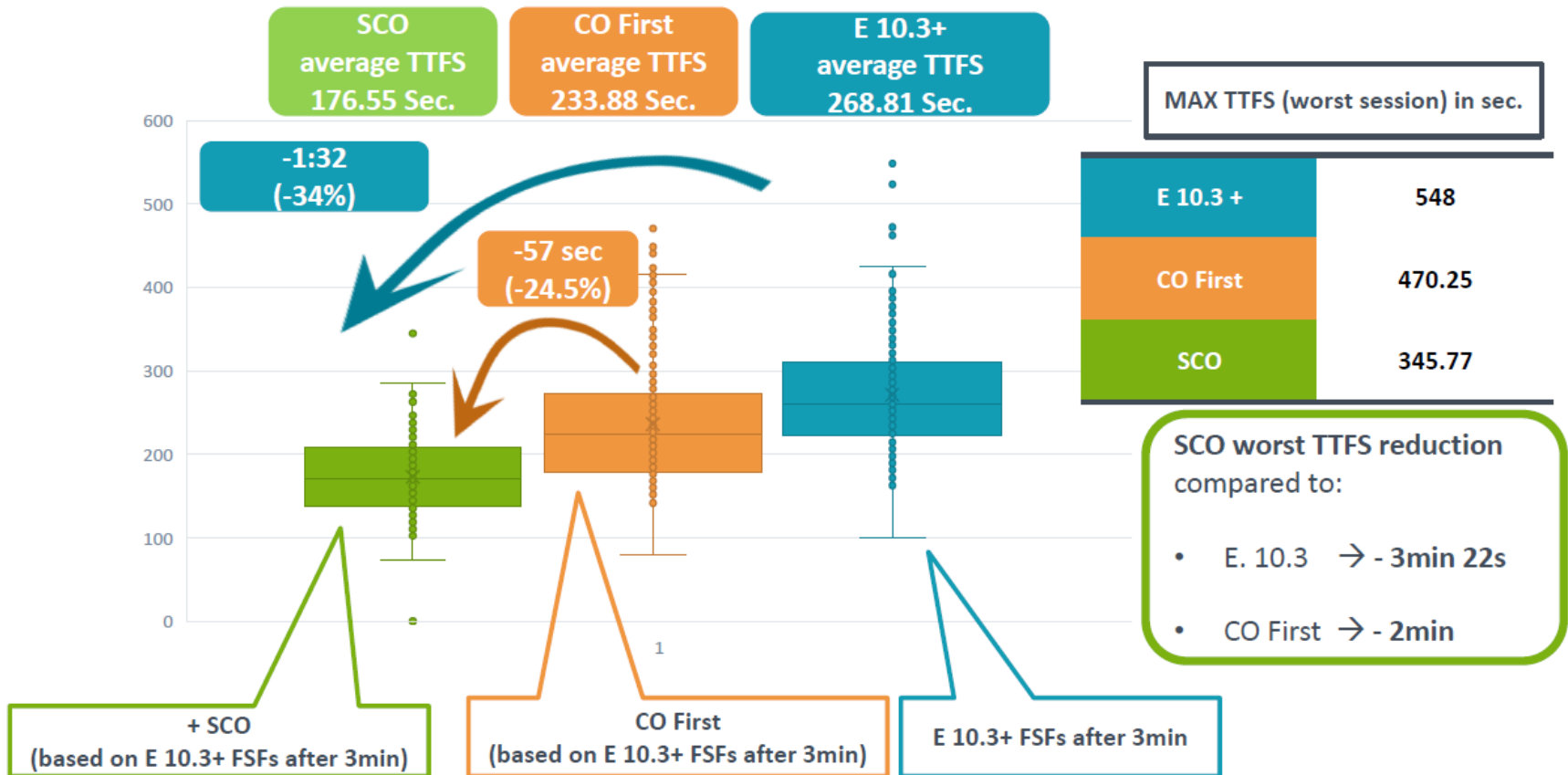
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Scalable Complex Orders (SCO)

- Part of EUPHEMIA R&D work to optimise the algorithm performance and reduce constraints
- SCO prototype developed with the aim of removing the issues we saw in our EUPHEMIA trial where Complex Orders and Block orders reduce algorithm performance
- SCO vs Classical Complex Order testing 1st iteration provides positive but not acceptable results for SEMOpx
- SEMOpx are fully engaged and working to enhance the product with our stakeholders
- Change will be incremented, inclusive and collaborative

Drivers for Change

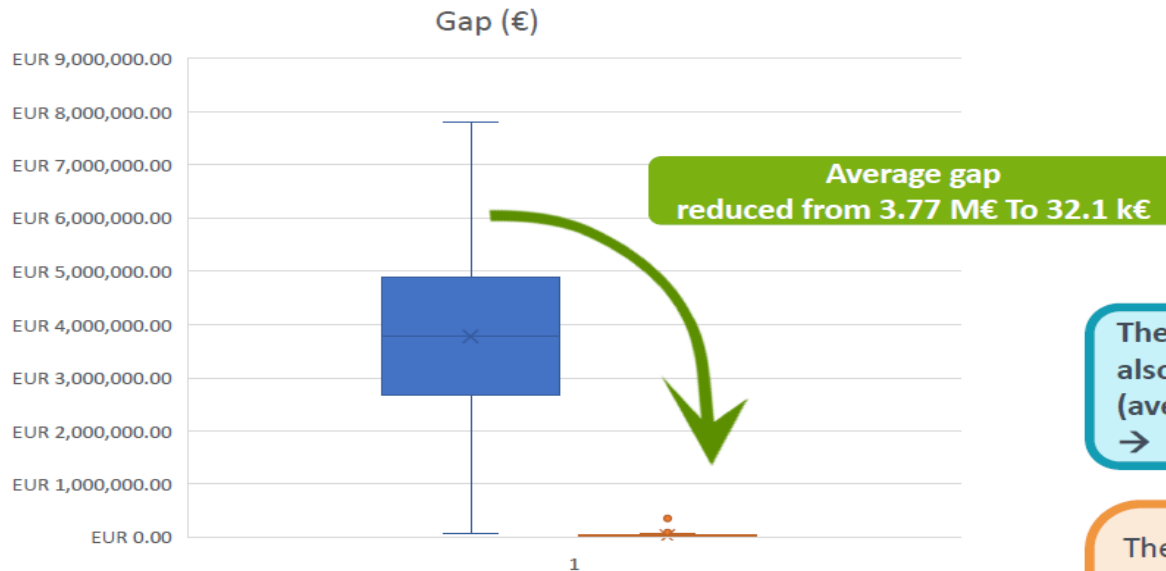


Production data from October 2018 to July 2019
in all the tests, "other FSFs" start after 3min

Drivers for Change

SCO reduces the average optimality gap by 99.6%

Average gap is reduced from 3.77 M€ to 32.1 k€ !



The average number of PRBs is also decreased by 35% !
(average decreased \approx 7 PRBS)
→ increased market satisfaction

The average number of "PRSCOs" very marginally increased compared to PRMICs:
2.89 compared to 1.636

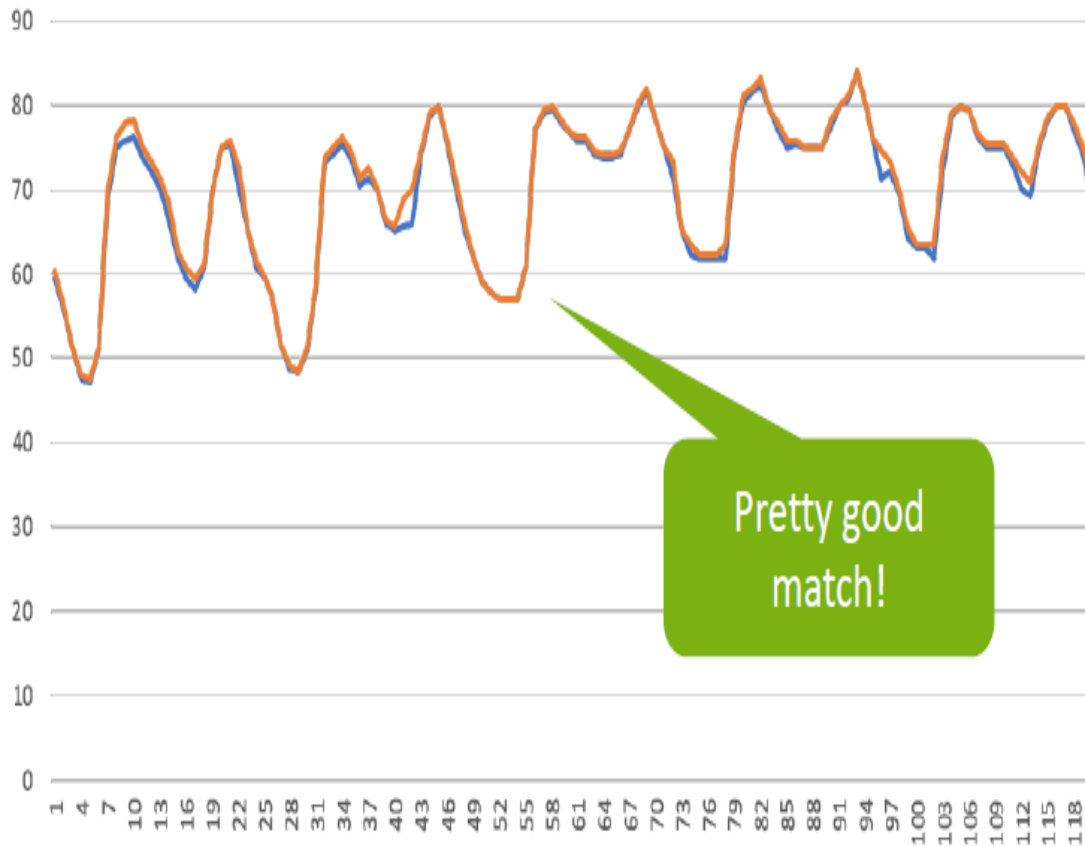
(depends on the conversion rule)

Production data from October 2018 to July 2019
in all the tests, "other FSFs" start after 3min

Potential Advantages/Challenges of SCO

Advantages	Challenges
SCOs behave more like blocks and therefore potentially removes the constraints where SEMOpX members are limited to Complex and Simple Orders only	Conversion Rules for COD not obtaining close enough results currently More options to refine in further tests to be developed
Increased Social Welfare of the solutions found	Reducing the impact with the removal of the Minimum Income Condition (MIC) on scheduling outcomes
Scalability of the product	Understanding the benefits of this type of product and how best to modify commercial offer data to achieve these benefits

Pricing Outcomes from Initial Tests



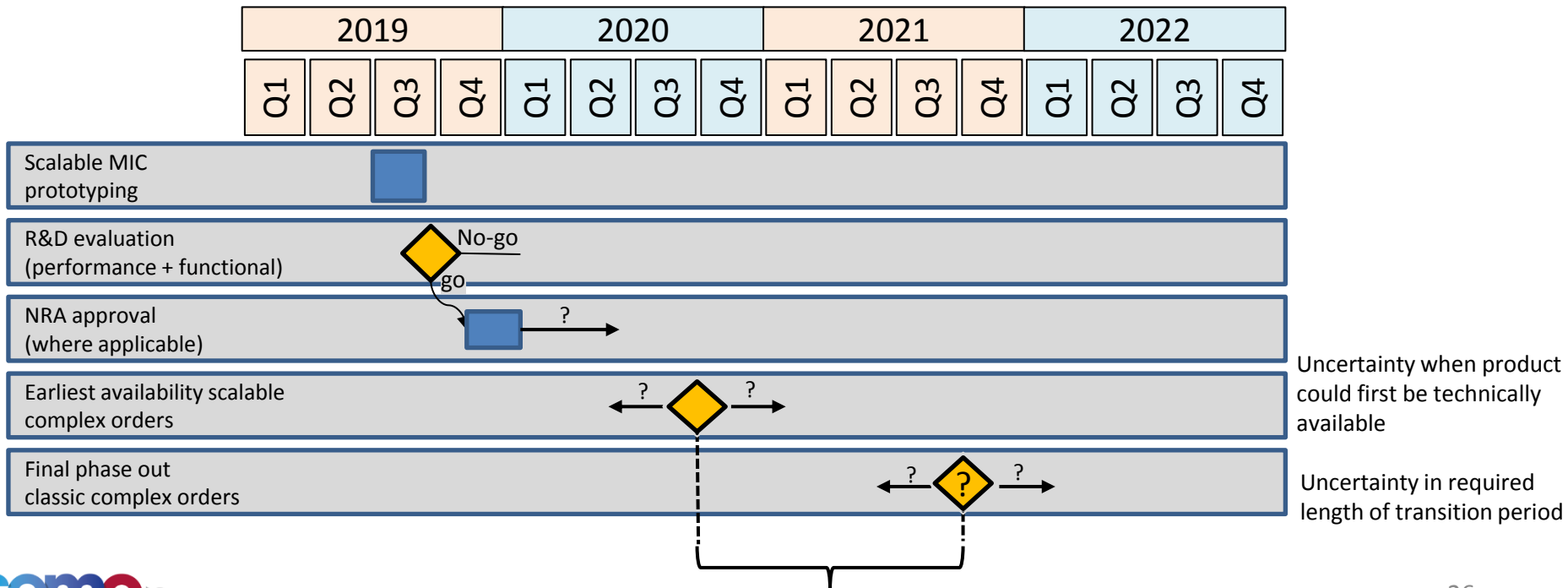
Results obtained with improved conversion rule

Sessions	Average absolute price differences in Spain-Portugal	Average absolute price differences in Ireland
Oct. 2018 to July 2019	0,47 €	1,46 €

Price differences can be more important at some periods

Potential Timeframes

- Depending on the outcome of the R&D, a decision can be made to progress the implementation of the scalable complex orders, in which case:
 - A precise definition of the product needs to be agreed, communicated, and possibly consulted
 - A detailed implementation plan will need to be developed and communicated



Change Management

Change Requests	Status of Delivery
[Auction] Complex orders for 30 min in IDAs	Expected Delivery Q2 2020
[Auction] MRC Block Orders	*On Hold
[Continuous] AON Block for Continuous	*On Hold
[AUCTION/CONT] ACER: Certain EIC-W codes of units to be reported within the transaction data.	Still in Assessment
[Continuous] RFC from SEMOpX - M7 Transfer of Units	Still in Assessment
[AUCTION/CONT] RFC from SEMOpX for setting start and end date of an Unit (per delivery date)	November 2019

Maintenance Window

System	Date & Time	Description
ETS	03/10/2019 18:30 – 20:00 GMT	<p>ETS trading system will not be available due to maintenance work.</p> <p>During this timeframe it will not be possible to connect or submit orders in ETS.</p> <p>Restart of ETS trading platform is scheduled at approx. 20:00 GMT.</p> <p><i>Your registered traders will have received the notification regarding this maintenance this morning approx. 09:00. A further alert was sent to your colleagues subscribed to the SEMOpX website distribution groups.</i></p>

Releases

- ETS

Version	Impact	Expected Timeline
V3.3.2	<p>New "Trade Report" via ETS client</p> <p>Changes in Market Results & Bid Files published on SEMOpx website</p> <p>Changes to REMIT files</p>	<p>First Trading Day - November 27th 2019 (TBC)</p> <p><i>SEMOpx apologise for the delay in issuing the information notice. A draft was issued on 02/10/2019 with the caveat that a final revision may be re-issued if required.</i></p>

- M7

Version	Impact	Expected Timeline
V6.8	<p>WebStart Comtrader may be discontinued due to changes in support of Java (TBC)</p> <p>Note, standalone Comtrader V6.8 will be Mandatory for SEMOpx Members. (Note, it is always recommended members update to the latest Comtrader, and as such in the meantime SEMOpx would recommend members download V6.7 Comtrader which is already available)</p> <p>Self Trade Labelling – an anonymous message issued to members if self trade</p>	<p>Early December 2019 (TBC)</p>

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Central Scenario for “No Deal” Brexit

- The **SEM will continue to operate as an all-island market in the event of a ‘no deal’ Brexit .**
- In a ‘no-deal’ Brexit scenario the implications for the day ahead and intraday cross border markets are:
 - **Day ahead market :**
 - An all-island local day ahead market will continue
 - There will no longer be day ahead cross border trade
 - **Intraday market:**
 - Will continue as is, including cross border trade
- SEMOpx will work with relevant parties to implement new cross border arrangements, should they be needed, but this will not be available on day 1 post a ‘no deal’ Brexit.
- On day 1 **post a ‘no deal’ Brexit the key difference will be the removal of the cross border day ahead auction but all other elements of the trading arrangements will remain the same.**
- Further details on intended trading arrangements for the SEM under a ‘no-deal’ Brexit are provided in communications by the SEM Committee (the decision making authority for SEM matters) in a [notice to industry](#) and the Northern Ireland Utility Regulator in an [information note](#). The Department for Business, Energy and Industrial Strategy has also published a [Technical Notice](#) to stakeholders in preparation for Brexit.

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Q & A



Follow Up Actions

Presentation Section	Question	Answer
European Integration	Can we obtain further information on the Decoupling Incident that occurred in June 2019?	Further details on the decoupling event are available from the NEMO website here .
Helpdesk & Registration	How do I check our list of registered traders?	<i>A list a members current registered traders is not available from the trading platform, but can be requested from registration@semopx.com by an authorised person of the member.</i>
Helpdesk & Registration	Do notifications on releases and specification changes go to vendors of market management systems?	SEMOpX do not actively circulate to vendors. Vendors can subscribe directly to the SEMOpX alerts from the SEMOpX website https://www.semopx.com/subscribe/ and receive updates as occurs for any member. Otherwise it is up to members to inform their vendor when notified of an upcoming release and schedule their participation in testing.

Next Meeting

FEBRUARY 2020						
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
Type: Physical						
9 Location: Belfast (to coincide with MOUG)						
Tentatively 27 th February						
16	17	18	19	20	21	22
23	24	25	26	27 ?	28	29

Appendices

Useful Resources

- [SEMOpX Rules](#)
 - [Rules and Operating Procedures](#)
 - [Modifications](#)
- [Technical Specifications](#)
- [Data Publication Guide](#) (expect new version Nov 2019 for ETS V.3.3.2)
 - [Static Reports](#)
- [Website Report API](#)
- [IDC XML Report Reference](#) (M7 version 6.7)
- [Training materials](#)
- *At all times we welcome your feedback on the content of these materials*

Brexit - Auction Timings and Trading Periods “As is”

The table below summarises the SEMOpx auctions:

Market Name	Gate Window Closure	Delivery Periods	Market Coupling
DAM	11:00 (D-1)	23:00 – 23:00 (24 * 1 hour)	Coupled with Europe
IDA – 1	17:30 (D-1)	23:00 – 23:00 (48 * ½ hour)	Coupled with GB
IDA – 2	08:00 (D)	11:00 – 23:00 (24 * ½ hour)	Coupled with GB
IDA – 3	14:00 (D)	17:00 – 23:00 (12 * ½ hour)	Local trading only

Brexit - Auction Timings and Trading Periods “To Be”

On Day One

The table below summarises the SEMOpx auctions:

Market Name	Gate Window Closure	Delivery Periods	Market Coupling
DAM Local	11:00 (D-1)	23:00 – 23:00 (24 * 1 hour)	Isolated Local Auction with Zero IC capacity
IDA – 1	17:30 (D-1)	23:00 – 23:00 (48 * ½ hour)	Coupled with GB
IDA – 2	08:00 (D)	11:00 – 23:00 (24 * ½ hour)	Coupled with GB
IDA – 3	14:00 (D)	17:00 – 23:00 (12 * ½ hour)	Local trading only

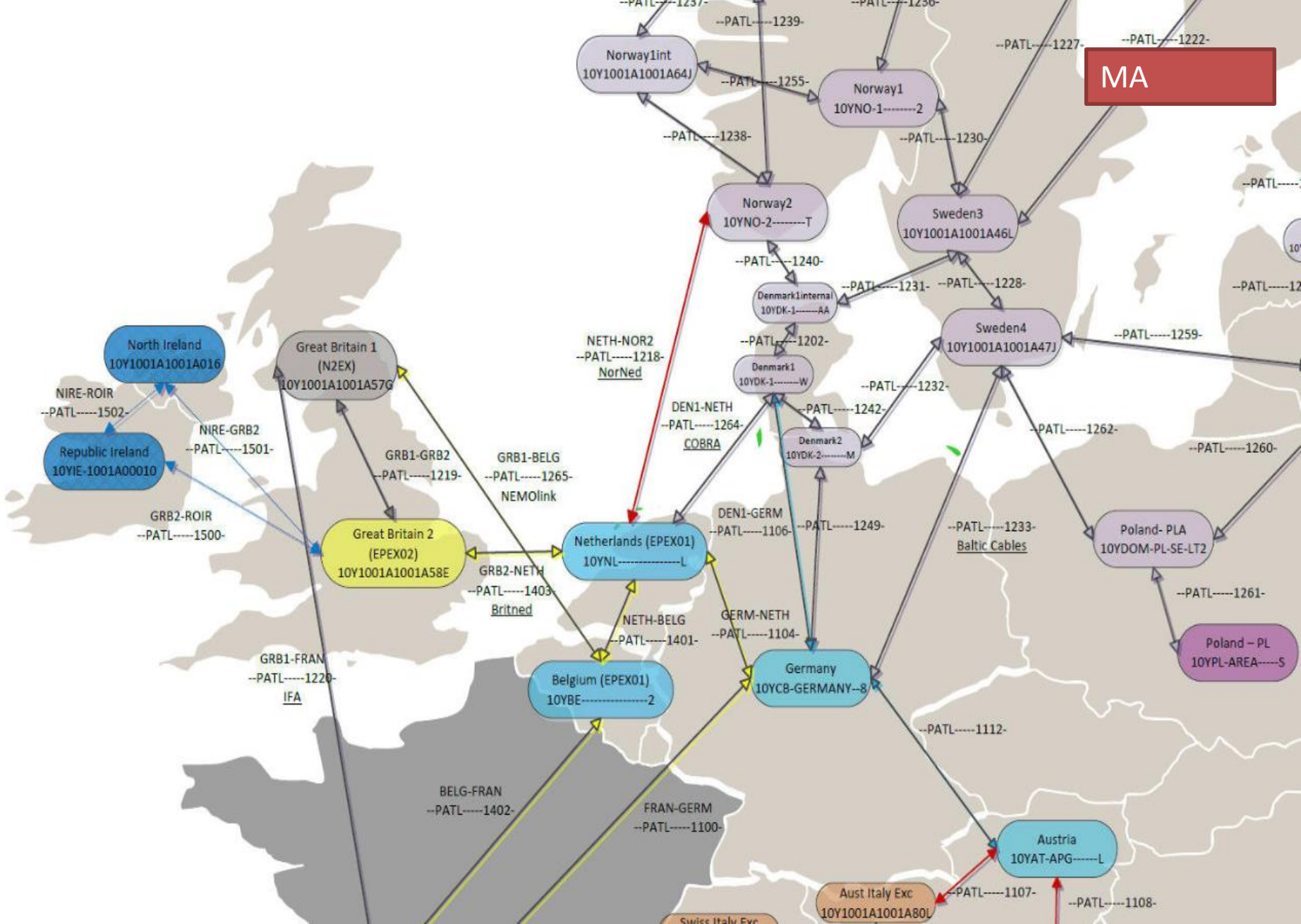
IC Capacity Transfers from DAM to IDAs



Brexit - SEMOpx Service Implications

- No functional changes to trading in Auctions or Continuous
- Products and result publication timings remain unchanged
- Post Coupling services (ECC Physical and Financial Settlement) remain unchanged
- Technical implementation will consist of:
 1. an interim solution with no MRC topology changes but no DAM coupling
 2. An enduring solution with permanent MRC topology changes and no DAM coupling

MA



Brexit - Phased Technical Solution for DAM

Context: In case of no-deal Brexit, the **two GB bidding zones** will be excluded from the MRC topology.

Proposed Plan

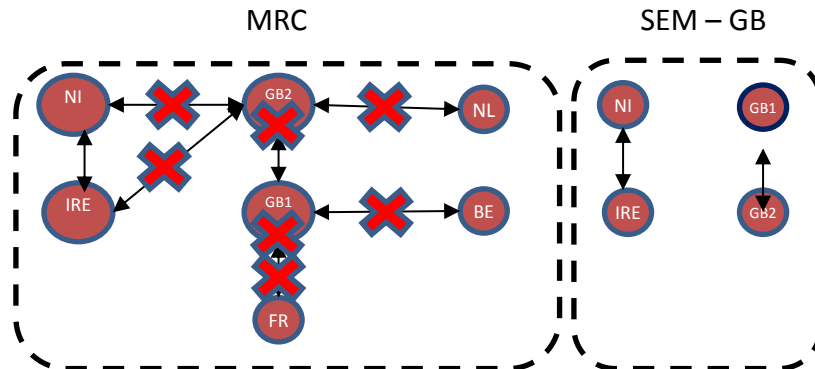
- An **Interim Solution** allows flexibility to retain existing DAM coupling should a no-deal Brexit be avoid.
- A move to the MRC agreed **Enduring Solution** (in approximately 6-8 weeks) after the Brexit date (currently 31/10/2019) has passed.

Interim Solution : Back Up Procedure

GB & IE/NL bidding zones will be decoupled from the MRC topology. EPEX will run both bidding zones as a Local Auction in Back up Mode.

Enduring Solution: Two separate local auctions GB/IE&NI

GB bidding zones are excluded from the MRC topology. SEMOpx and EPEX launch two separate local auctions.



Schema representation applicable for both scenarios

Note: During both phases the SEM Ex-Ante markets will operate in the same way i.e. no coupling in the DAM, it is only the underlying technical solution that will change.