



6th User Group Meeting

Brussels Airport, 20.06.17

Agenda 6th User Group Meeting

TIME	AGENDA ITEM	PRESENTER
10:45 – 11:00	Registration, Coffee	
11:00 – 11:05	1. Welcome, Agenda	Mark Pickles
11:05 – 12:00	2. Project status overview	Mark Pickles
12:00 – 12:30	3. ID products for go-live and roadmap	Igor Honhoff
12:30 – 13:00	4. LIPs – general status overview	Katja Birr-Pedersen
13:00 – 13:45	Lunch Break	
13:45 – 15:45	5. LIPs individual presentations a) LIP 1 b) LIP 13 c) LIP 2 d) LIP 3 e) LIP 4 f) LIP 5 g) LIP 6 h) LIP 8 i) LIP 9&12	Igor Honhoff Igor Honhoff Katja Birr-Pedersen Jérôme Calderan Chris van der Beek Gilbert Guntschnig Florent Beau Florent Beau Pablo Royo
15:45 – 16:00	6. Closing remarks, reflections on the day	Mark Pickles

Agenda

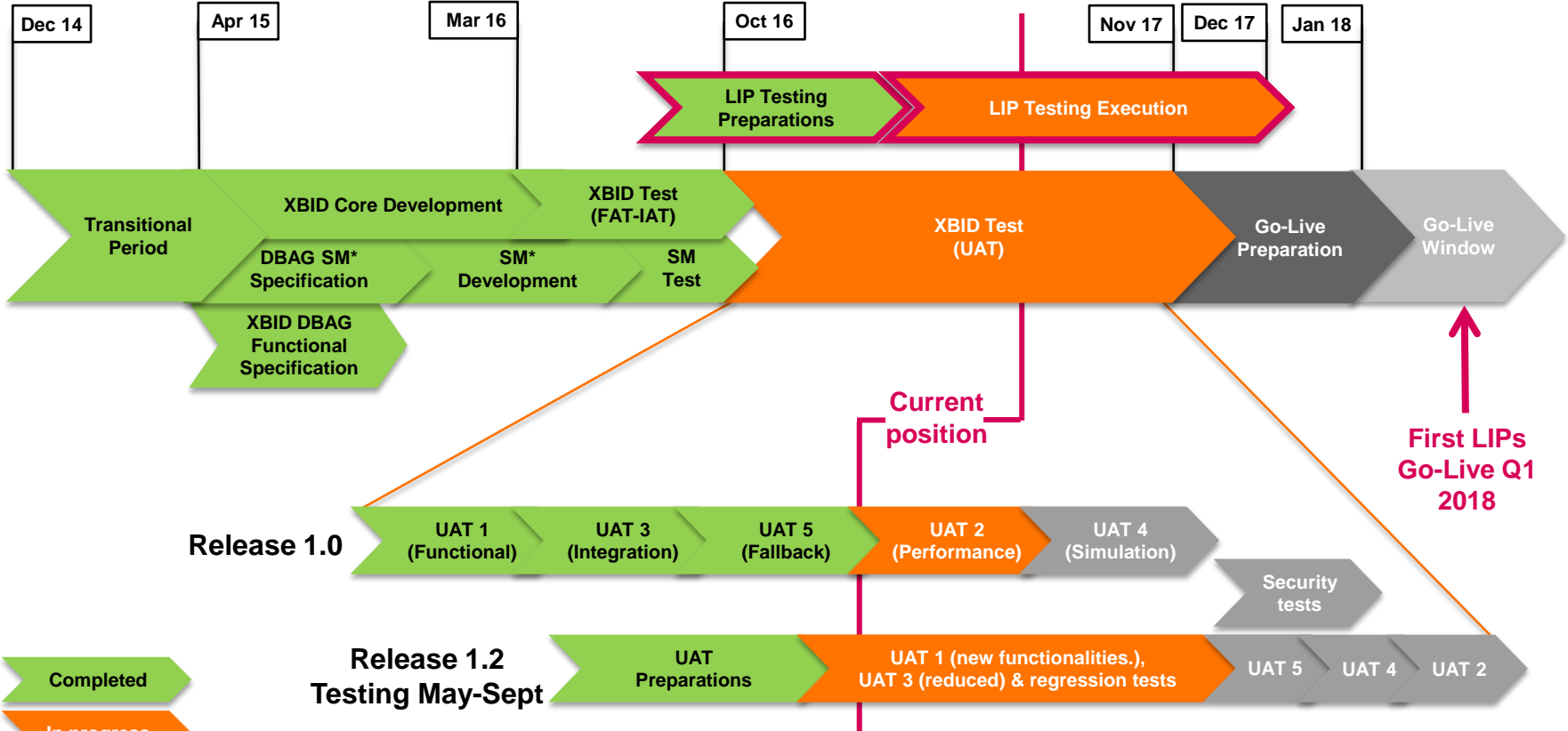
11:05-12:00

- 2. Project status overview**
- 3. ID products for go-live and future roadmap**
- 4. LIPs – general status overview**
- 5. LIPs individual presentations**
- 6. Closing remarks, reflections on the day**

Project Status Overview

- 1. Project Timeline**
- 2. Project Progress**
 - **Achievements**
 - **Challenges**
- 3. Go-Live Preparation**
- 4. Accession Stream update**
- 5. Summary**

1. Project Timeline – Updated High Level Delivery Plan until Go-Live



First LIPs Go-Live Q1 2018

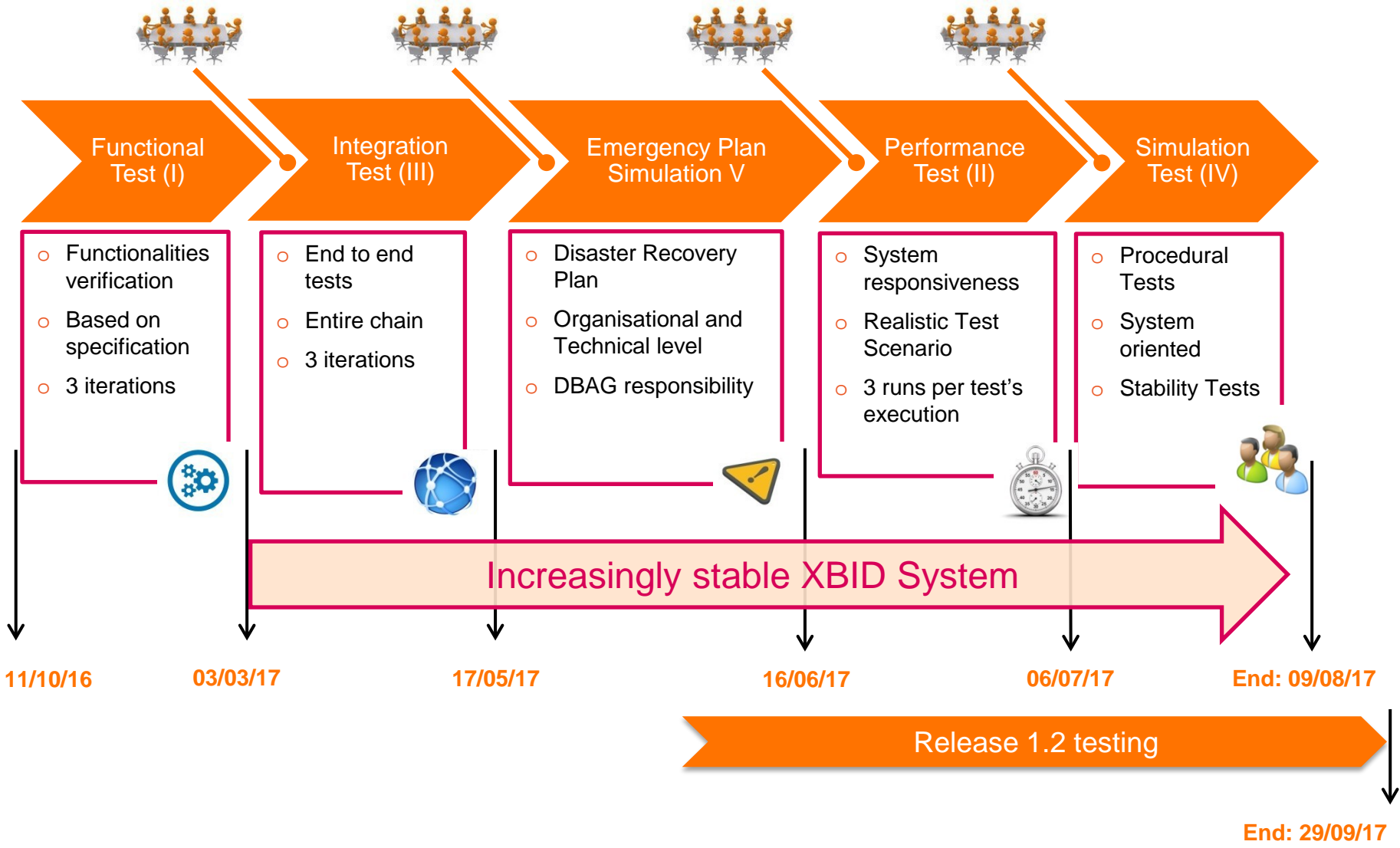
Current position

Go-live has moved from end Q3 2017 to Q1 2018 due to:

- 7 weeks delay in UAT 1 (functional tests)
- Testing activities for Release 1.2 including shipping between single and multiple NEMO areas, data intermediaries, events & notifications (equal treatment)
- Contingency in December in view of experience in testing to date

*SM – Shipping Module

1. Plan detailing User Acceptance Test (UAT) phases



2. Project Progress – Key achievements (1/2)

• Technical

- The communication channels are implemented and have been **successfully tested by both PXs and TSOs**
- The service providers for the **Central Administration (CA)** of the XBID modules have been **selected/confirmed**
 - **TSOs have selected JAO for the CA activities for the Capacity Management Module (CMM)**
 - **PXs will undertake CA activities themselves**
- **An independent service provider (PWC) will undertake additional security tests** on XBID
- **Shipping arrangements have been confirmed for all LIPs** in the first go-live
- **Release 1.2 (R1.2) has been developed** and is in testing. R1.2 delivers functionality such as enhanced shipper and enables the interface with the capacity co-ordination system (NOIS) used in Nordic countries as well as automated system notifications to PXs/TSOs

• Costs

- **The project is currently within budget**
- **The independent audits of the PXs 2016 costs** have been completed and have demonstrated satisfactory assurance

2. Project Progress – Key achievements (2/2)

- **Operational readiness**

- Substantial progress has been achieved with the drafting of **operational procedures** and **agreeing the critical business processes** with DBAG
- **Go live activities have been agreed** (*with assumption that all parties Go-Live at the same time*)
- A **Go-live Coordinator (Indra)** has been appointed to ensure that go-live activities are monitored, co-ordinated and tracked

- **Contractual**

- The **Hosting contract is agreed**
- The **Maintenance contract is substantially agreed**
- The **1st Amendment to the Back to Back (B2B) agreement between NEMOs and TSOs** is completed following clarification provided by the Italian NRA on an open point relating to liabilities associated with internet access to XBID
- A pre-final version of the **Intraday Operational Agreement (IDOA)** is due to be achieved before the Summer.

2. Project Progress – Challenges (1/2)

XBID continues to be a very complex and demanding project to deliver

Technical

- **Selection of Energy Identification Codes (EIC) configuration**

- Finding solutions for variations between project parties on the number of channels etc.

- This relates specifically to channels for Central Counter Party (CCP) and Shipping Agent (SA). A solution is agreed for XBID. The implications for the Day Ahead Multi NEMO Arrangements are being considered.

- **Selecting and confirming the products for go-live**

- Using performance testing to develop the route map for delivering all products whilst recognising the growth in the Intraday Market. For first Go-Live the aim is to have as a minimum, what is currently available in the market.

=> Covered in more detail in Section 3

- **Managing the issues identified in LIP preparation and testing**

- These issues can require Change Requests (CRs) which it is becoming increasingly challenging to incorporate as the project moves closer to delivery
- At present these have been able to be incorporated into Release 1.2 but now that this is subject to testing it becomes increasingly difficult

2. Project Progress – Challenges (2/2)

XBID continues to be a very complex and demanding project to deliver

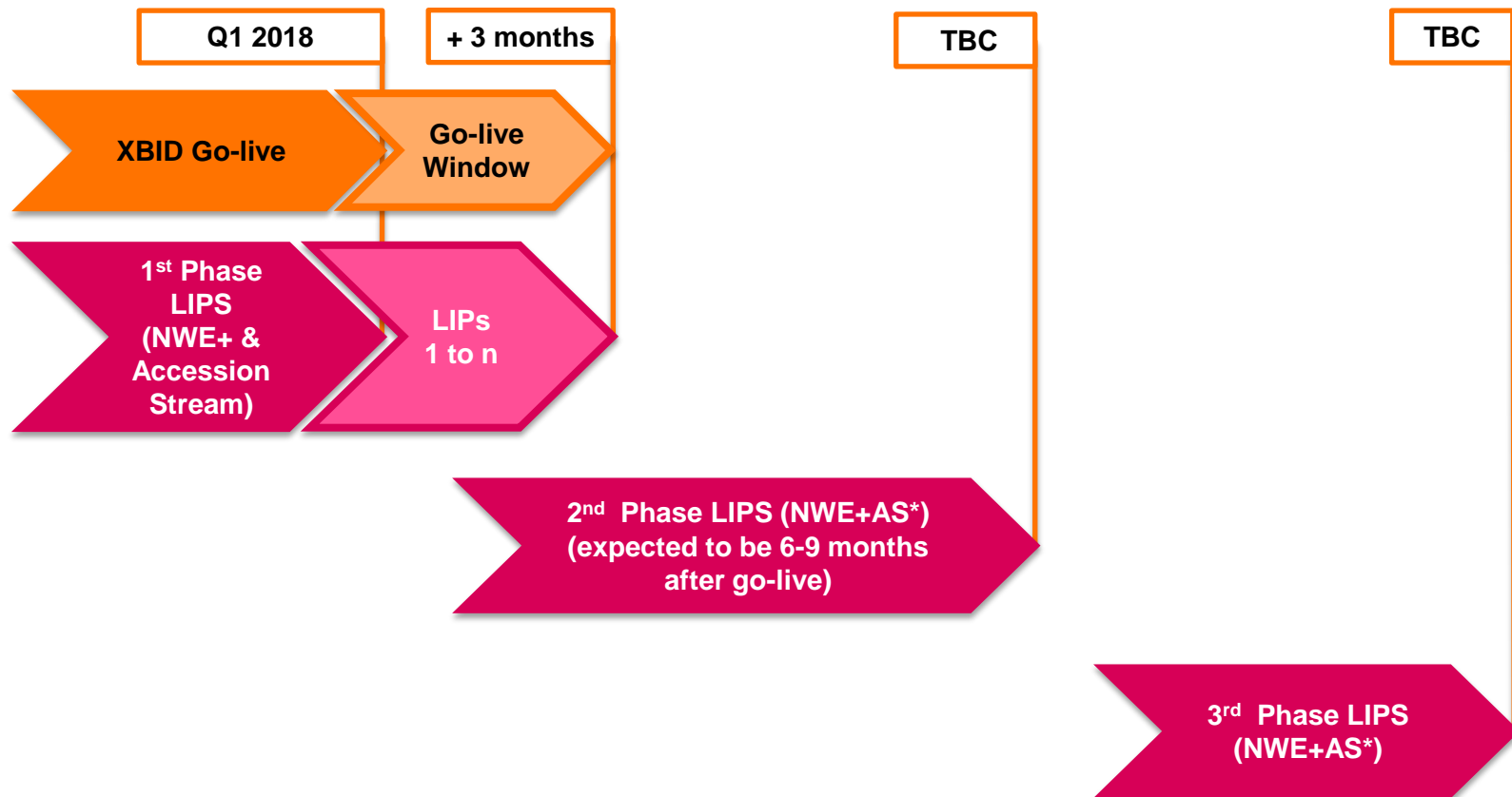
Contractual

- **Finalizing the All Nemo Intra-Day Operational Agreement in parallel with IDOA**
 - This agreement is based on the MCO Plan not yet approved by NRAs. However planning and negotiations, closely related to IDOA's outcomes, are underway.

Cost issues

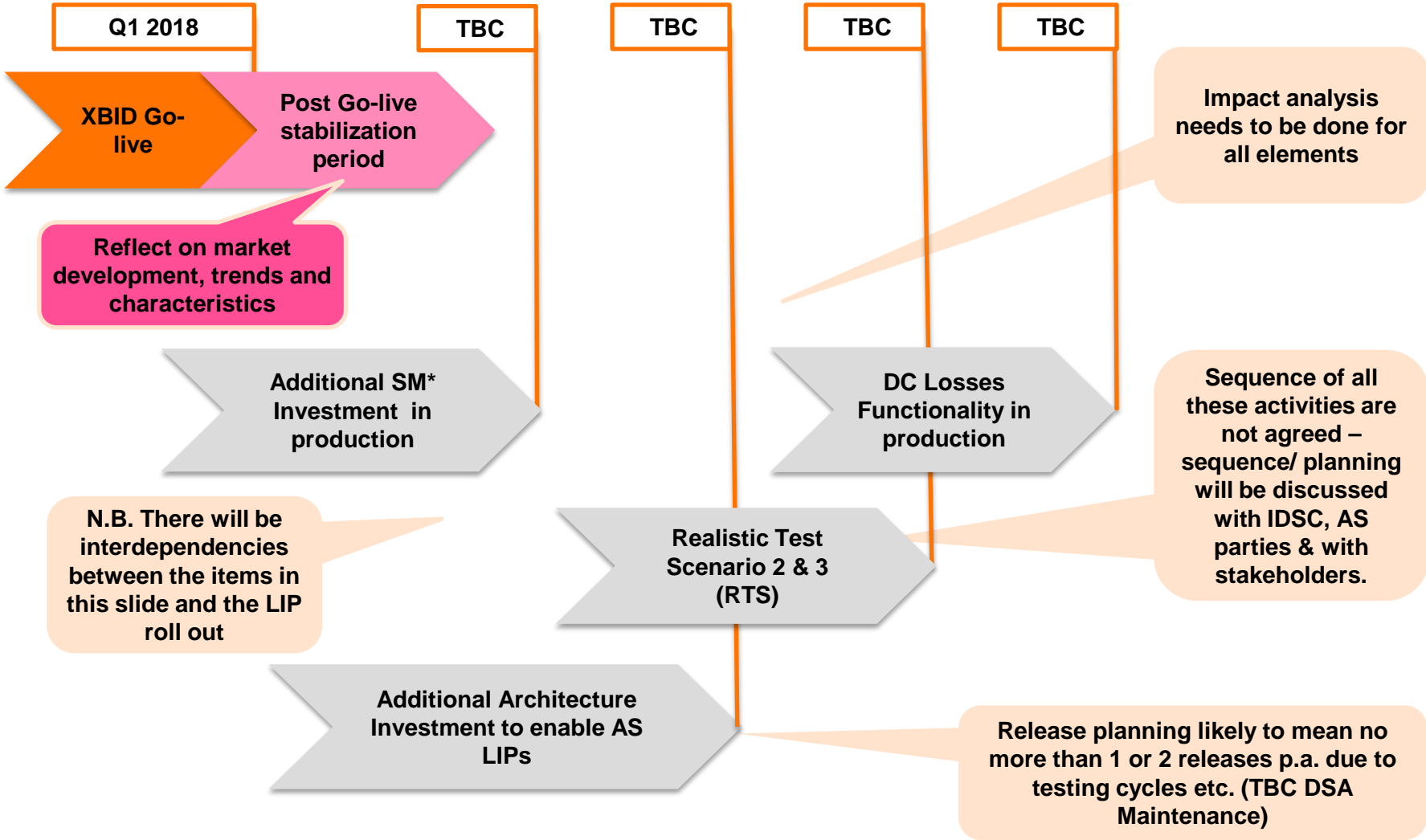
- **Cost sharing and recovery in the context of CACM regulation (SIDC) for common XBID costs until go-live – including participation of Accession Stream Members - as well as regional LIP costs**
 - A letter was received from NRAs on 10/05 giving some clarity on cost reporting between member states, but not giving the required clarity on cost recovery. A draft reply is being reviewed by the Project Parties
 - Reconciliation of costs amongst all EU Member States and Project Parties will be a complex task.
- **Cost of DBAG services particularly with regards to Change Requests (CRs)**
 - Project Parties and NRAs are concerned about the DBAG mark-up and have extensively discussed this both with DBAG and NRAs

XBID Strategic Roadmap – Illustrative of ‘Go-Live’ for NWE+ and Accession Stream LIPs

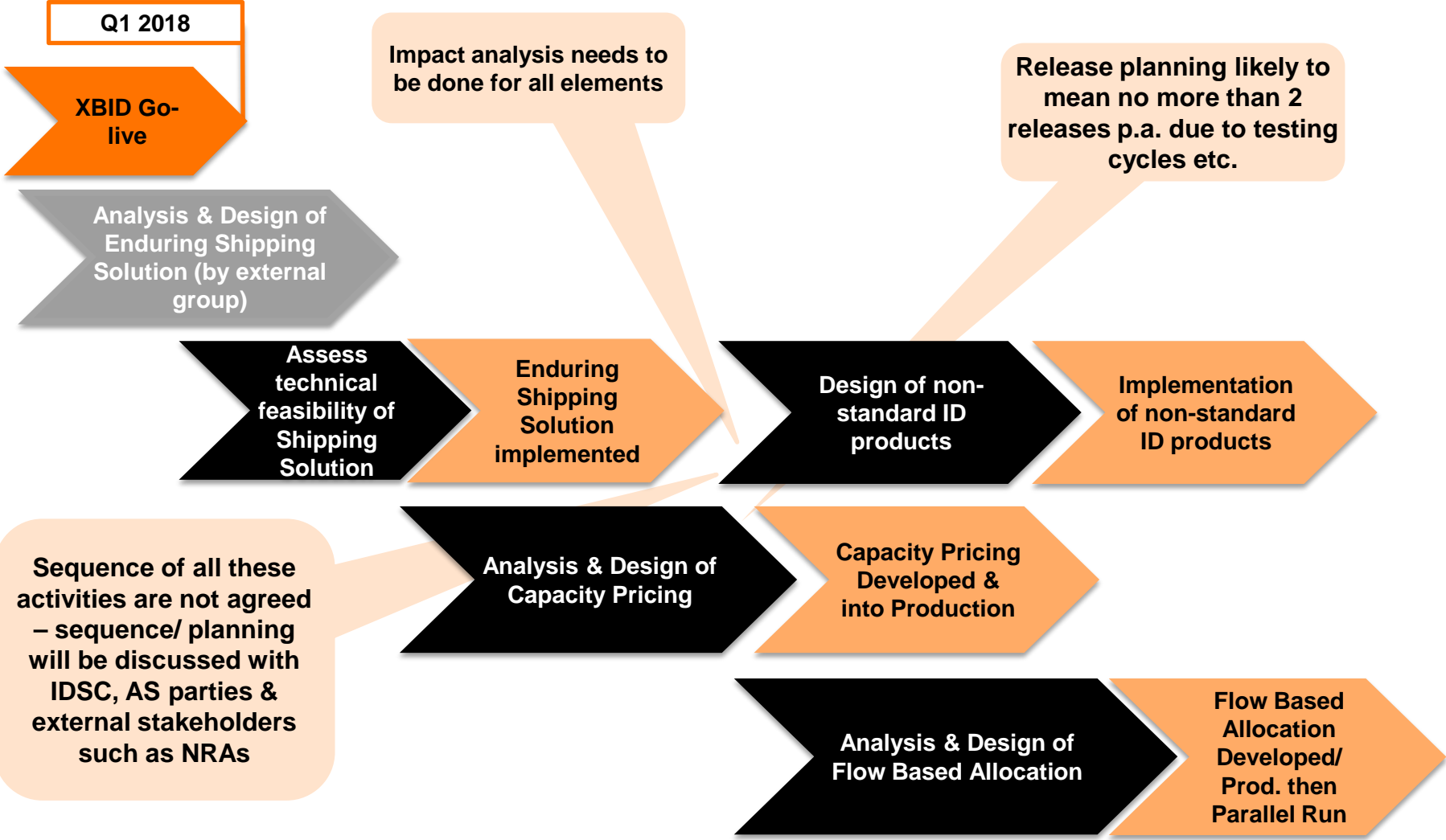


NRAs have confirmed that we should focus on implementing XBID on as many borders as possible before focusing on future developments

XBID Strategic Roadmap – Illustrative “Shorter Term” sequence from Go-live - Speculative and must be prioritised/agreed with stakeholders



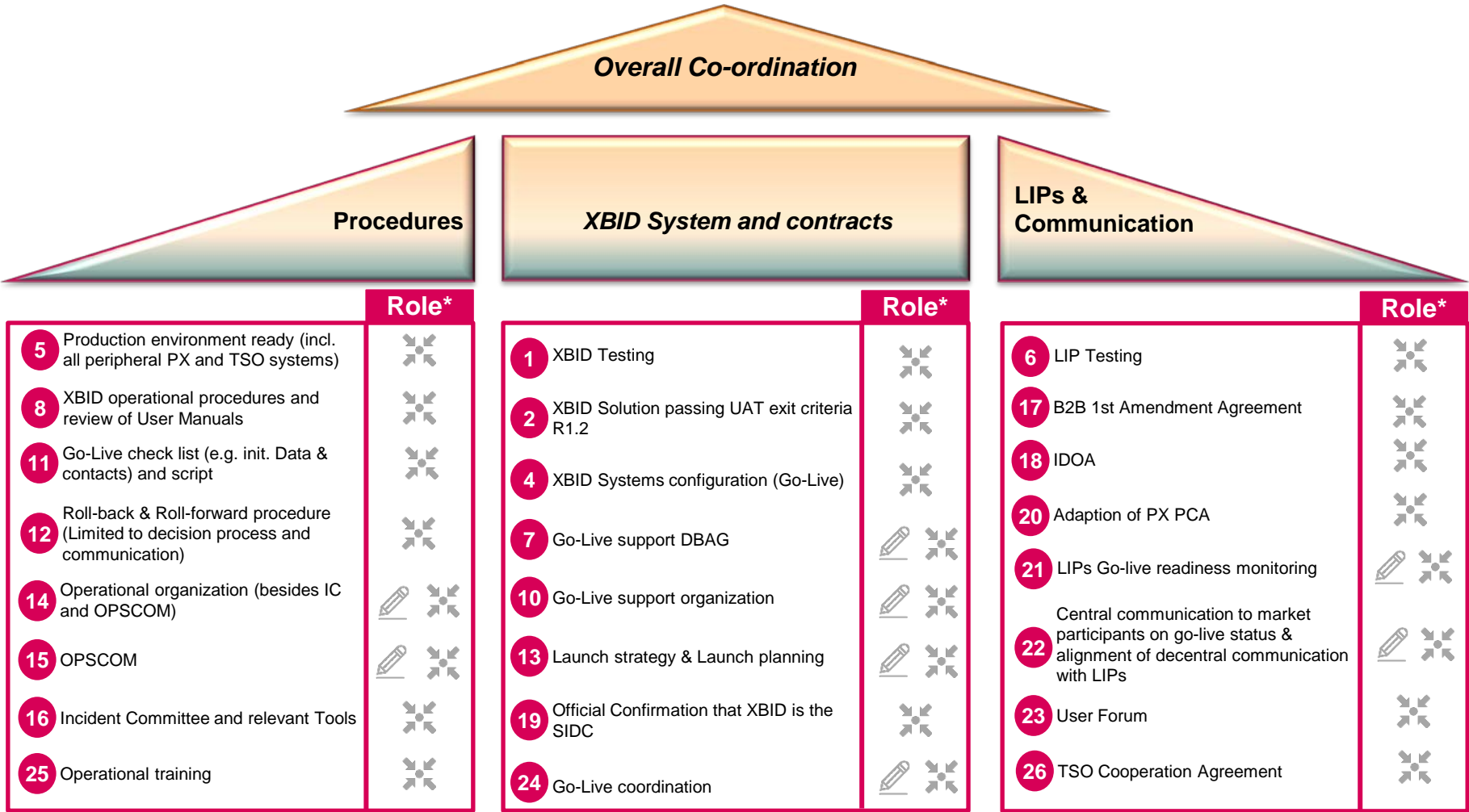
XBID Strategic Roadmap – Illustrative “Longer Term” sequence of design and implementation to be prioritised/agreed with stakeholders



3. Go-live preparations

- **Go-live activities and deliverables have been agreed** and responsibilities assigned to XBID project bodies and to LIPs. These include amongst others
 - Go-live check list and script
 - Launch strategy and planning (assumption that all parties Go-Live at the same time, i.e. a big bang)
 - Operational organisation (Incident Committee, IC, OPSCOM, etc.)
 - Operational training
 - Go-Live readiness monitoring
 - PX members testing
 - Central communication to market participants on go-live status & alignment of decentral communication with LIPs etc.
- **A Go-Live Co-ordinator has been appointed** (see following slide for categorisation)
- **The list of requirements to be fulfilled by LIP's to be part of XBID go-live are agreed.** It is LIP responsibility to ensure readiness for go-live – the central XBID project will monitor:
 - Operational team readiness in accordance with the regional/local and XBID procedures
 - All regulatory requirements fulfilled and regulatory approval(s) received (where required)
 - All required regional/local arrangements established, or, when and where applicable, regional/local contracts signed
 - All relevant market participants were informed about the foreseen changes
 - System readiness – successful completion of LIP Testing
 - Local procedures between parties agreed in line with XBID procedures

3. Go-Live Co-ordinator Approach overview



**The Go-Live Coordinator will play different roles depending on the Go-Live activity/deliverable:*

Active role

Coordination role

4. Accession Stream Update

- Members of the Accession Stream (AS) have confirmed membership/or mobilisation of LIPs:
 - **Two LIPs with AS member's participation plan to go-live** in the first implementation of XBID (Q1 2018):
 - Baltics – 3 TSOs (Elering, AST and Litgrid) with Nord Pool
 - REN in Iberian LIP with OMIE, REE, RTE, EPEX and Nord Pool
 - A **new LIP (LIP 15) has recently been established** including AS member's: CEPS, EXAA, HUPX, MAVIR, OPCOM, OTE and Transelectrica
 - Additionally, PSE announced that Poland has started the process to set up a LIP with Sweden and Lithuania. Once the agreement is signed, the LIP launch will be communicated officially
- **AS members are actively participating in some project activities:**
 - AS proposed a single IDOA to govern operations and new developments after go-live, and they are proactively involved in drafting it.
 - A LIP Testing Agreement has been signed to enable AS parties take part in LIP testing to prepare for go-live
 - Baltic and Iberian TSOs have fulfilled the LIP Testing entry criteria and have successfully passed the FIT Pre-Coupling Test
- **Meetings continue to be held with the Accession Parties** with a frequency of around every month and a half. The most recent meeting was held on 16th May and the coming one will take place on 22nd June
- Overall there is an open and constructive two way dialogue between the project parties and the AS parties which is viewed positively

4. Summary

- **Substantive progress** has been made in delivering the XBID project
- Technical readiness of XBID is planned for **November 2017** and the first XBID LIPs **go-live in Q1 2018**.
- The **Accession Stream makes good progress** and some Accession LIPs (Baltic and Iberian Peninsula) are preparing to be part of the first go-live
- **Good progress is being made in User Acceptance Testing with the third phase on point of completion.** DBAG is making progress resolving bugs found in testing.
- **The project is complex** and proves to be continually challenging.
 - Progress has been made in resolving complex issues such as shipping between single and multiple NEMO areas and EIC codes.
 - However, other challenges are still unresolved including cost sharing/recovery (where clarity, including also for the LIPs, is urgently needed from the NRAs in order to ensure the project time line).
- **We all continue to invest extensively to deliver a successful XBID Go-Live and support Accession parties to build their knowledge and plans to achieve successful XBID implementation**

Agenda

12:00-12:30

- 2. Project status overview**
- 3. ID products for go-live and roadmap**
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Products that XBID can offer

- **Product types**

- 15-minute continuous product
- 30-minute continuous product
- 60-minute continuous product
- Any predefined block products
- Any predefined peak or off-peak products
- Any predefined weekend or week-day products

- **Product features**

- Iceberg-enabled (they can be made into an iceberg)
- Link-enabled (they can be linked)
- Block-order-enabled (they can be combined into user defined blocks)
- Iceberg orders will have a minimum peak size and a peak price delta range to be agreed
- Block orders will be DST-enabled (the block product will take into account the extra hour or absent hour on DST days)
- Fill Or/And Kill, All Or None etc.. order execution restrictions

Further product features available in XBID

- **Min/max settings**

- Minimum quantity shall be equal to smallest tradable unit (see below)
- Maximum quantity is to be agreed among PXs
- Smallest tradable unit
- Minimum and maximum price

- **Contracts**

- Contract generation time per product is configurable (for example one week ahead)
- Contract activation point and expiry point
- Default trading schedule
- Delivery areas in which products will be active
- Specific trading schedules per delivery area (local vs. global)

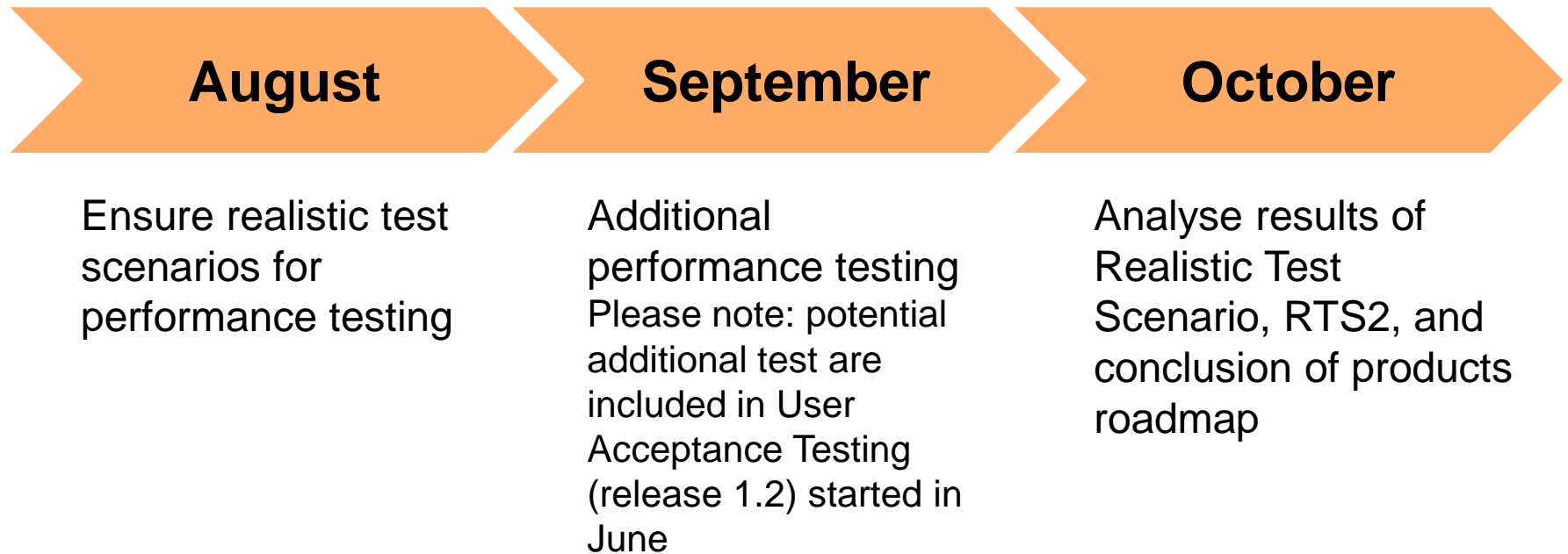
- **Miscellaneous parameters**

- All trading is in EUR and MW
- The product naming convention

Product definition roadmap

Product definition is ongoing. The goal is to ensure all existing order types will be supported.

Steps we are taking to ensure this



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12:30-13:00

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LIP Status Overview

Katja Birr-Pedersen

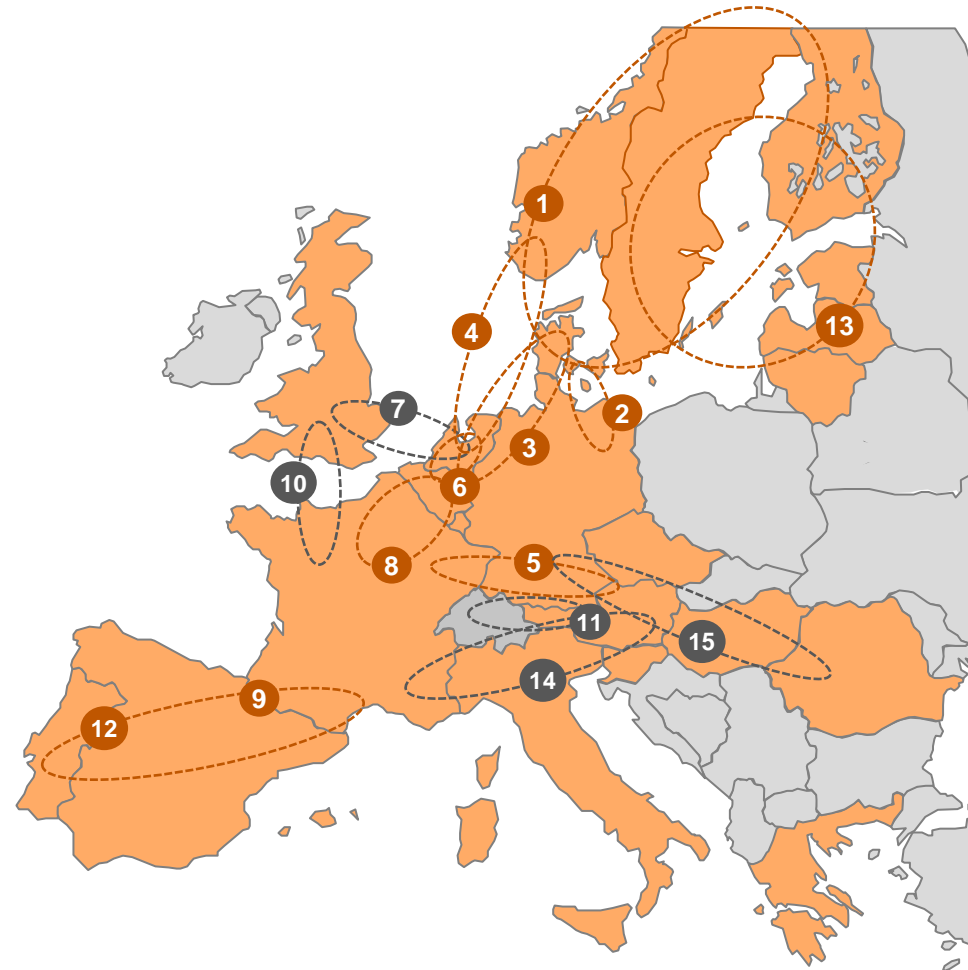
Overview of established LIPs

LIPs part of 1st go-live Q1/2018

LIP		Participants
1	Nordic	Fingrid, EnDK, SvK, Statnett, Nord Pool, EPEX
2	Kontek	EnDK, 50Hz, Nord Pool, EPEX
3	DK1/DE, DE/NL	EnDK, TenneT NL& DE, Amprion, EPEX, Nord Pool
4	NorNed	Statnett, TenneT NL, EPEX, Nord Pool
5	FR/DE, DE/AT	Amprion, TransnetBW, APG, RTE, Swissgrid, EPEX, Nord Pool, Tennet DE
6	NL/BE	Elia, TenneT NL, EPEX, Nord Pool
8	FR/BE	RTE, Elia, EPEX, Nord Pool
9	FR/ES& ES/PT	RTE, EPEX, OMIE, REE, REN, Nord Pool
12		
13	Baltic	Elering, Litgrid, AST, Fingrid (Estlink) Svenska Kraftnät (NordBalt), Nord Pool






LIPs going live at a later stage

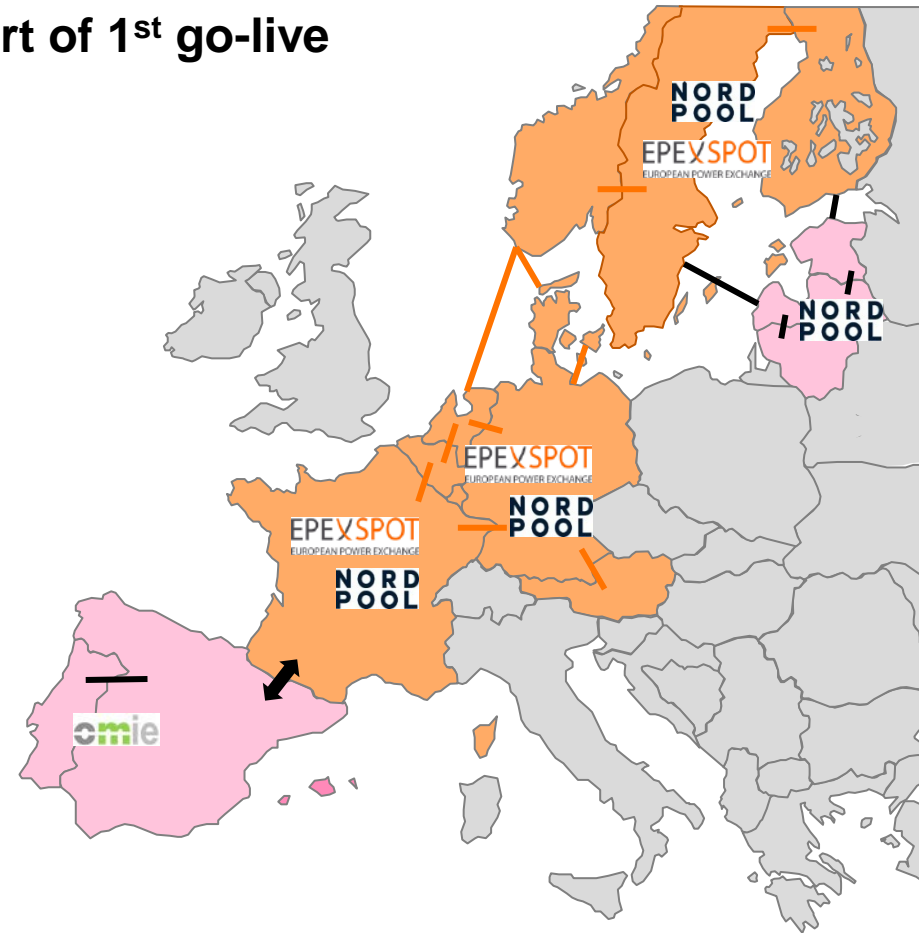
LIP		Participants
7	BritNed	BDL, NG, TenneT NL, EPEX
10	IFA	RTE, NG, Nord Pool, EPEX
11	AT/CH	APG, Swissgrid, EPEX
14	INB	ADMIE, APG, ELES, RTE, Swisgrid, Terna, BSP, EPEX, EXAA, GME, LAGIE, Nord Pool
15	DE-CZ, AT-CZ, AT-HU, HU-RO*	50Hertz, APG, CEPS, EPEX, EXAA, HUPX, MAVIR, Nord Pool, OPCOM, OTE, Transelectrica, TTG








* Joining of SK and SK/CZ and SK/HU border under consideration

Progress made since last UG – LIPs part of 1st go-live

- LIP testing secured
 - Testing environments and support agreed with DBAG 
 - LIP test plan agreed consisting of the following phases: 
 - Functional Integration Tests (FIT) for pre-coupling systems
 - FIT for post-coupling systems
 - Simulation Integration Tests (SIT)
 - Successful integration testing of Baltic and Iberian TSOs 
 - Successful completion of FIT for the pre-coupling part 
- Shipping arrangements confirmed by all LIPs and respective IT adjustments were required underway → see overview 
- Rollback solutions to be arranged individually for each LIP where required/desired

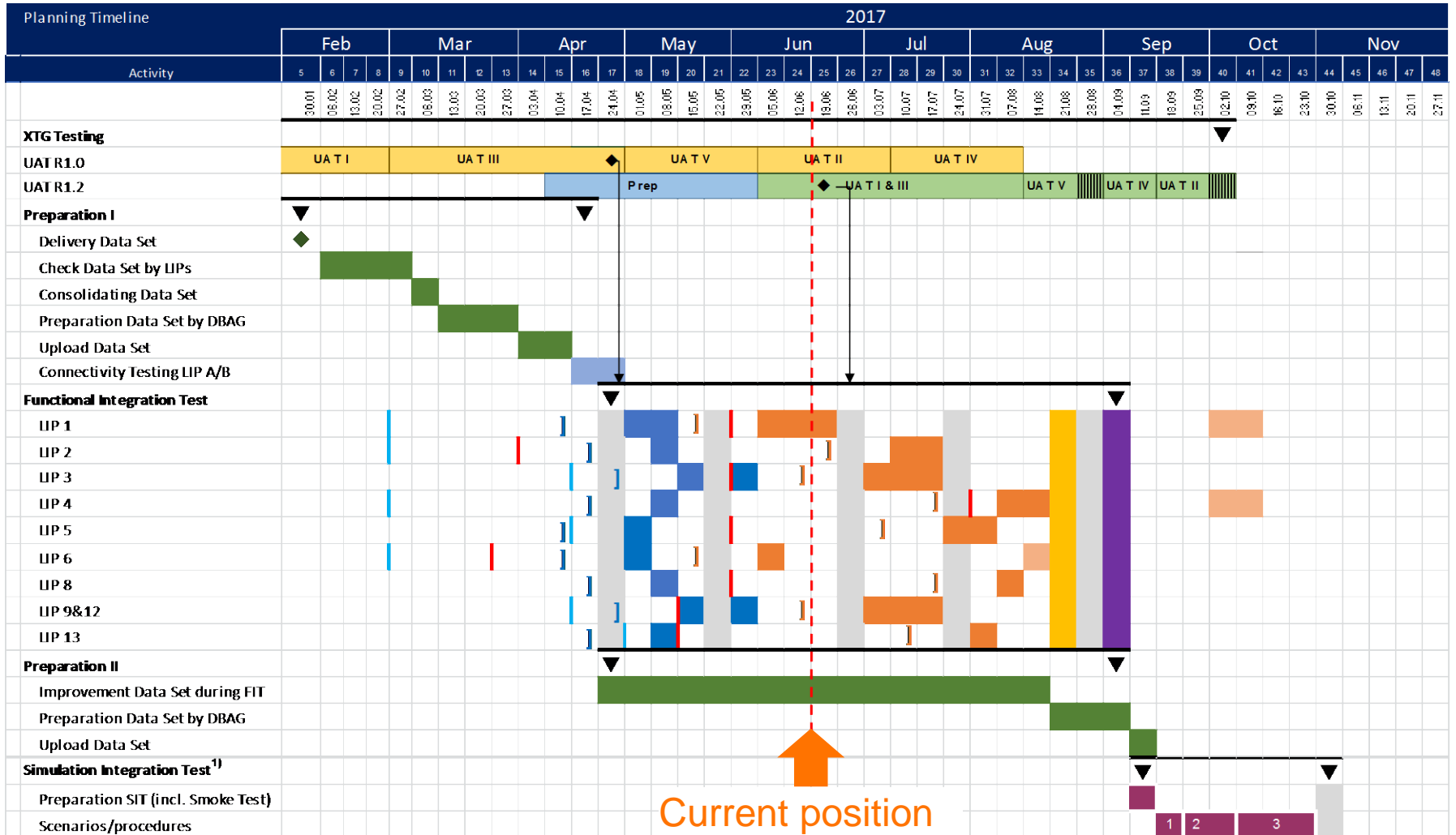


Legend			
	Single shipper		Single shipping arrangement
	Preferred shipper		Dual shipping arrangement
			Preferred shipping arrangement

Status overview LIPs part of 1st go-live

LIP	Status overall	Explanation of status as provided by LIP
1	on schedule	The adjustment of LIP test planning is agreed and approved by JCT. A technical solution ensuring compatibility of all NEMOs/CCPs systems as shippers with the BASSE system has been identified. Legal assessment pending.
2	on schedule	Decision on shipping solution taken, implementation details for preferred shipper still need to be agreed with all LIP parties - relates to nomination on behalf and relevant update of contractual framework.
3	on schedule	Decision on shipping solution is taken (preferred shipping). Remaining decision on explicit allocation is clarified. No explicit solution is needed.
4	On schedule	Part of the post-coupling will be tested in August. The end-to-end tests (including post-coupling) will be performed in October. HLA and local procedures are agreed pre-coupling test are performed successfully and preparations for the post-coupling test are on track.
5	on schedule	LIP testing ongoing.
6	on schedule	Testing of pre-coupling within FIT is successful. Preparation of test script for post-coupling FIT is ongoing. Delivery of a local system is delayed but does not endanger planning. LIP6 procedures are finalized (could be re-open in light of new elements). LIP6 Master Test Plan is approved. Planning is on track
8	on schedule	Pre-coupling FIT successful. Preparation for post-coupling FIT is ongoing: test cases identified and detailed scenarios are being drafted. Master test plan approved by all parties. LIP procedures are under review. Planning on track.
9 12	on schedule	FIT pre-coupling test successfully completed and Test Report delivered. Statement of Readiness for FIT post-coupling approved and delivered to the LTC. Planning is on track.
13	on schedule	HLA approved. Master Test Plan approved, test scenarios and test cases done for LIP FIT testing. FIT pre-coupling test successfully completed. Bilateral tests for post-coupling to be run.

Detailed LIP Testing Plan



3. Detailed readiness status

LIP	XBID TESTING		LIP TESTING														
			OVERALL			PRE-COUPLING						POST-COUPLING					
	IAT	UAT	MTP	ENV	BRD	TST	SYS	BIL	TRT	ODF	RSC	TST	SYS	BIL	TRT	ODF	RSC
1	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Yellow	Yellow	Yellow	Grey	Grey	Green
2	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Yellow	Yellow	Yellow	Grey	Grey	Green
3	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Grey	Green
4	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Grey	Grey	Green
5	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Yellow	Yellow	Red	Grey	Grey	Green
6	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Grey	Green	Green
8	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Yellow	Yellow	Red	Grey	Grey	Green
9 12	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Green	Green	Green	Grey	Grey	Green
13	Green	Green	Green	Green	Green	Green	Green	Green	Grey	Green	Green	Yellow	Yellow	Red	Grey	Grey	Green

Legend

Grey	Not applicable
Red	Not started
Yellow	Ongoing
Green	Ready

- Functional Integration Tests (FIT) for the pre-coupling part successfully completed by all LIPs
- FIT for the post-coupling part have recently started

Explanation header

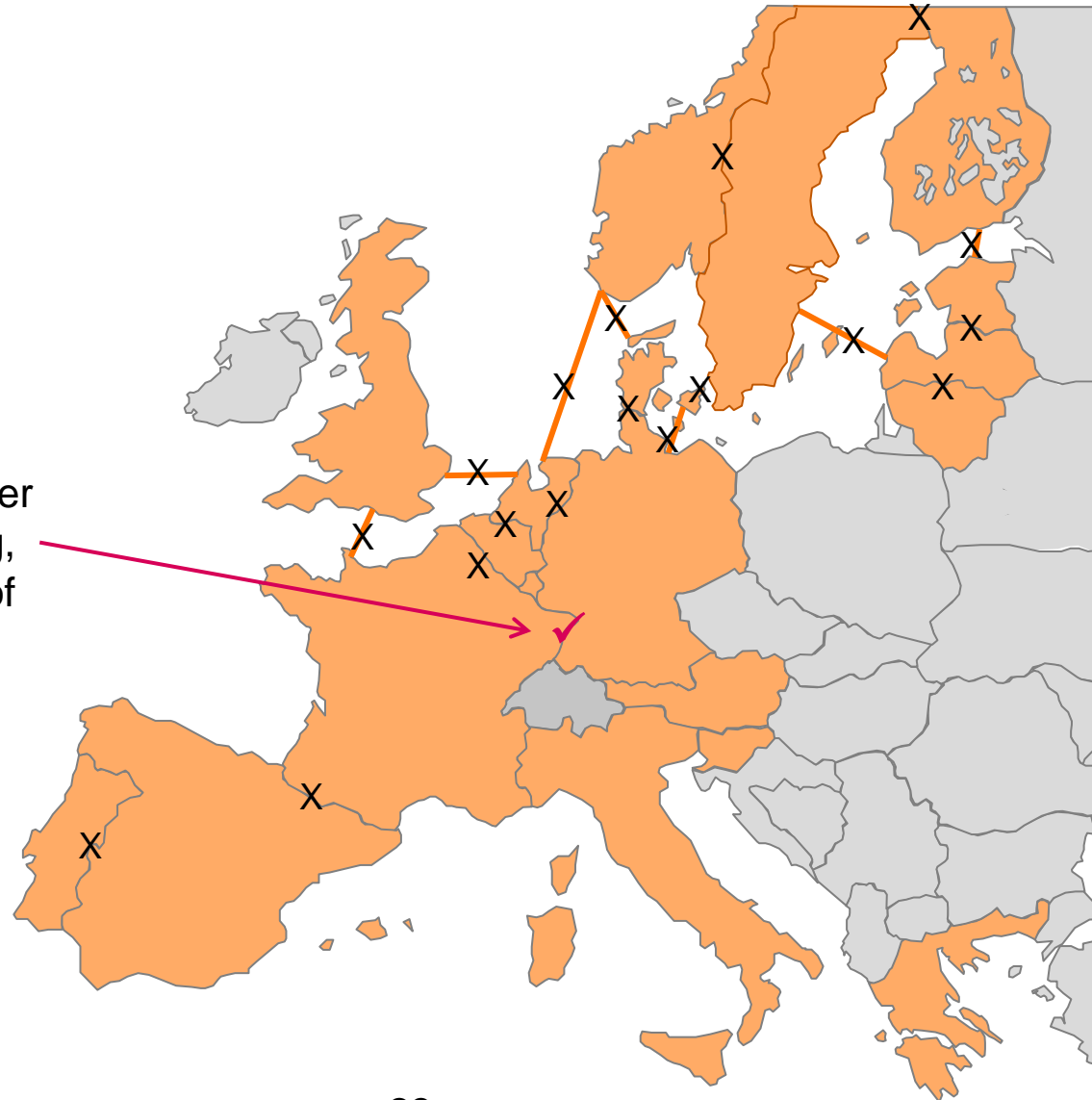
- IAT All parties within the LIP have participated in the IAT for TSOs or IAT for PXs and have shown their readiness in message exchange with the XBID
- UAT All parties within the LIP have participated in UAT III (Integration Testing) and the test is successful, no critical or major defects open
- MTP A Master Test Plan including LIP Testing have been setup by the LIP and the MTP is signed off by all parties
- ENV Each party within the LIP have a test environment setup and available to be connected to the LIP Testing Environment
- BRD The setup of borders/interconnectors of the LIPs are specified, implemented within the systems, validated and signed off by the LIP
- TST Test sets based on procedures and functionalities, to be used for validation testing are completed, signed off by all parties and ready to be executed
- SYS Local (back-end) systems have to be ready and tested prior to the LIP Testing - readiness statement
- BIL Bi-lateral testing - testing between systems within the LIP without the XBID - have been performed for systems as part of the pre- / post-coupling
- TRT Test report have been provided with the results of the Bi-lateral testing
- ODF The number of open defects meets the defect criteria (Critical = 0; Major = 0; Moderate <=10 and Minor <= 20)
- RSC The LIP has resourcing set available to perform LIP Testing

Indication of borders planning to offer explicit access to capacity

FR/DE border – testing explicit access to capacity: The external user will be simulated during UAT testing, hence no tests under involvement of market participants are foreseen.

Legend

- X No explicit access will be offered
- ✓ Explicit access will be provided (NRA approval granted)



Early information on members testing – EPEX Spot

EPEX will send out communication on the member test in September 2017

This information will contain, amongst others:

- Detailed planning of the member test
- Gap analysis showing the changes between the currently used Trading Solution of EPEX and the new Trading Solution.
- Newly coupled borders
- Changes in procedures
- Etc.

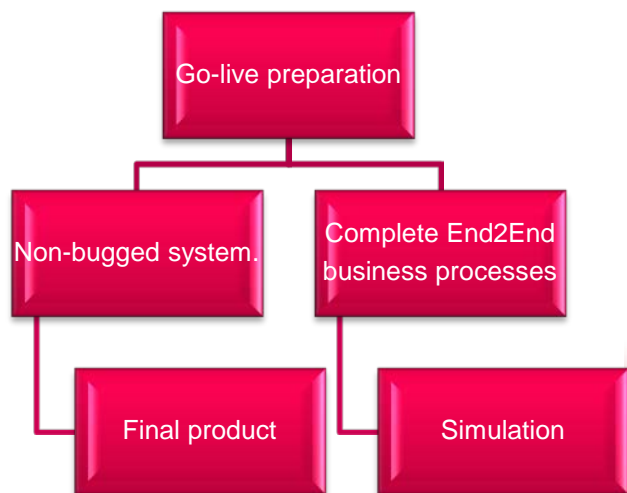
Member testing is targeted for December 2017 or January 2018.

Early information on members testing – Nord Pool

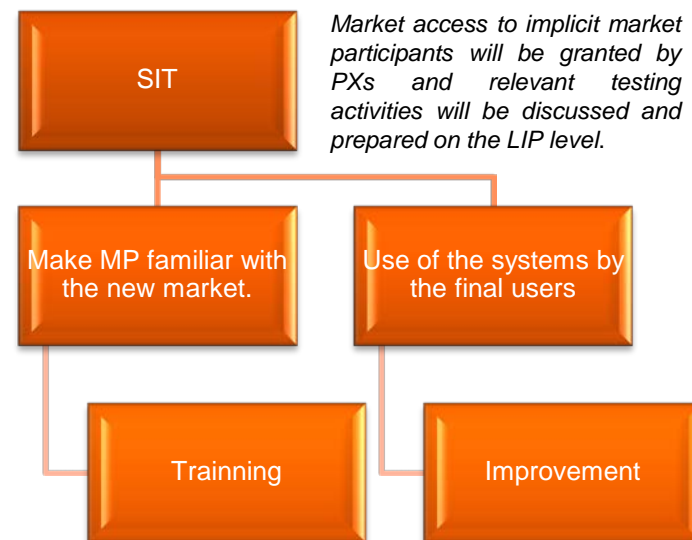
- First info letter on Nord Pool member testing has been sent on 31st May
- Next info letter will be sent in July, providing more information about XBID member testing
- Nord Pool aims to run XBID member testing in December 2017 and January 2018

Early information on members testing –OMIE

- OMIE is of the opinion that MPs should participate as much as possible in the testing of the system.
- LIPs are now defining the SIT phase. Once this process ends, OMIE will decide when exactly to involve its Market Participants and the scope of these tests.



Targeted for December 2017 on!



Market access to implicit market participants will be granted by PXs and relevant testing activities will be discussed and prepared on the LIP level.



SIT Targeted for September 2017
Participation of the MP to be confirmed



Agenda

13:45-15:45

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5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

LIP 1



FINGRID

NORD
POOL

ENERGINET



SVENSKA
KRAFTNÄT

Statnett

EPEXSPOT

LIP 1: Nordic LIP

User Group Meeting

Igor Honhoff

Content

- 1. Introduction of Nordic LIP**
- 2. High Level Planning**
- 3. LIP Project Status**
- 4. Challenges**

1. Introduction to the Nordic LIP

Participants

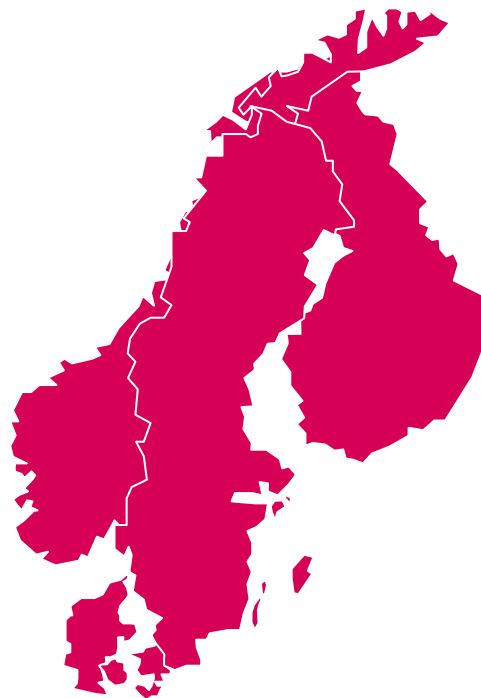
- Statnett
- Energinet.DK
- Fingrid
- Svenska Kraftnät
- Nord Pool
- Epex Spot

Scope and goals

Implement XBID for all Nordic interconnectors and areas:

- 4 countries
- 12 scheduling areas
- 23 interconnectors

Go-Live at the same time as XBID

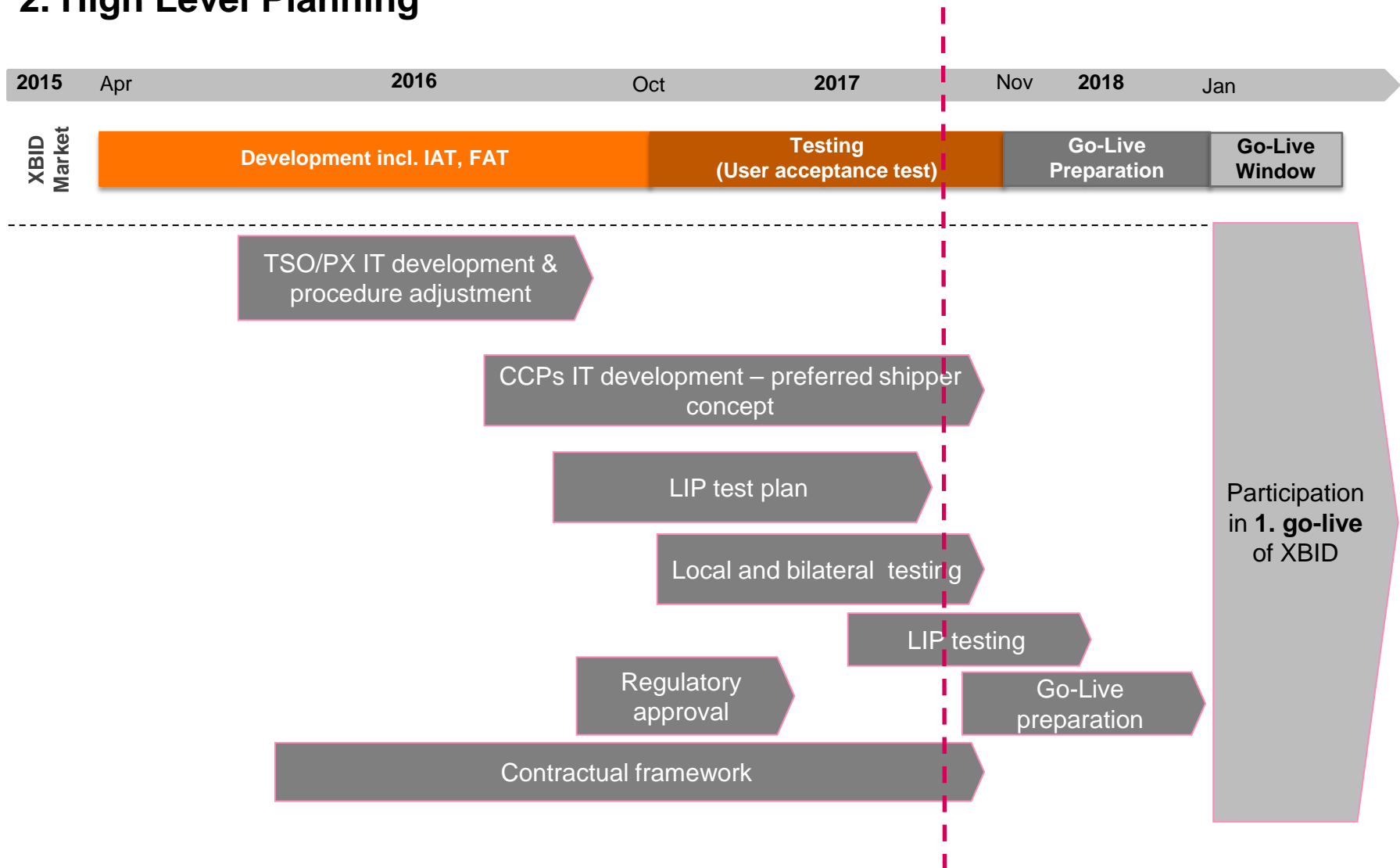


Multiparty systems

NOIS – Capacity calculation

BASSE – Nordic imbalance settlement system

2. High Level Planning



3. LIP Project Status – 2/2

- **Go-Live preparations**
 - Roll-back services under discussion of TSOs and assumed service provider
 - Other deliverables preparation such as roll-forward scripts planned to be initiated in alignment with XBID project preparations (during summer)
- **Member testing and changes in LTS communication to market participants**
 - Coordination rather PX specific than LIP specific
 - Communication under PXs control

4. Challenges

- **Testing**

- Simultaneous testing on central level and LIP level similarly as necessity to coordinate testing in several environments and support by both local and central project IT providers to these tests introduce significantly increased requirements on resources and complexity of coordination

5. LIPs individual presentations

a) LIP 1

b) LIP 13

c) LIP 2

d) LIP 3

e) LIP 4

f) LIP 5

g) LIP 6

h) LIP 8

i) LIP 9&12

Baltic LIP

User Group Meeting

Brussels: 20th of June 2017

Igor Honhoff

Content

1. Status of the Baltic LIP
2. Timeline for Baltic LIP
3. Challenges

1. Status of the Baltic LIP Deliverables

- **Shipping agreements**
Shipping arrangement agreed, Central shipper
❖ **Preparing of agreement ongoing**
- **Procedures**
Adaptations of XBID procedures and local procedures to be compatible with XBID
✓ **Agreed and approved**
- **High Level architecture**
Including all the solutions from all parties involved in the intraday procedures and the sequence diagrams between these systems
✓ **Agreed and approved**
- **Integrated XBID compliant Intraday solution**
Validated through the successful execution of end-to-end test cases
❖ **Testing Ongoing**

Participants	
<input type="checkbox"/>	Elering
<input type="checkbox"/>	Litgrid
<input type="checkbox"/>	AST
<input type="checkbox"/>	Fingrid
<input type="checkbox"/>	Svenska Kraftnät
<input type="checkbox"/>	Nord Pool
	Spoc Marja Eronen



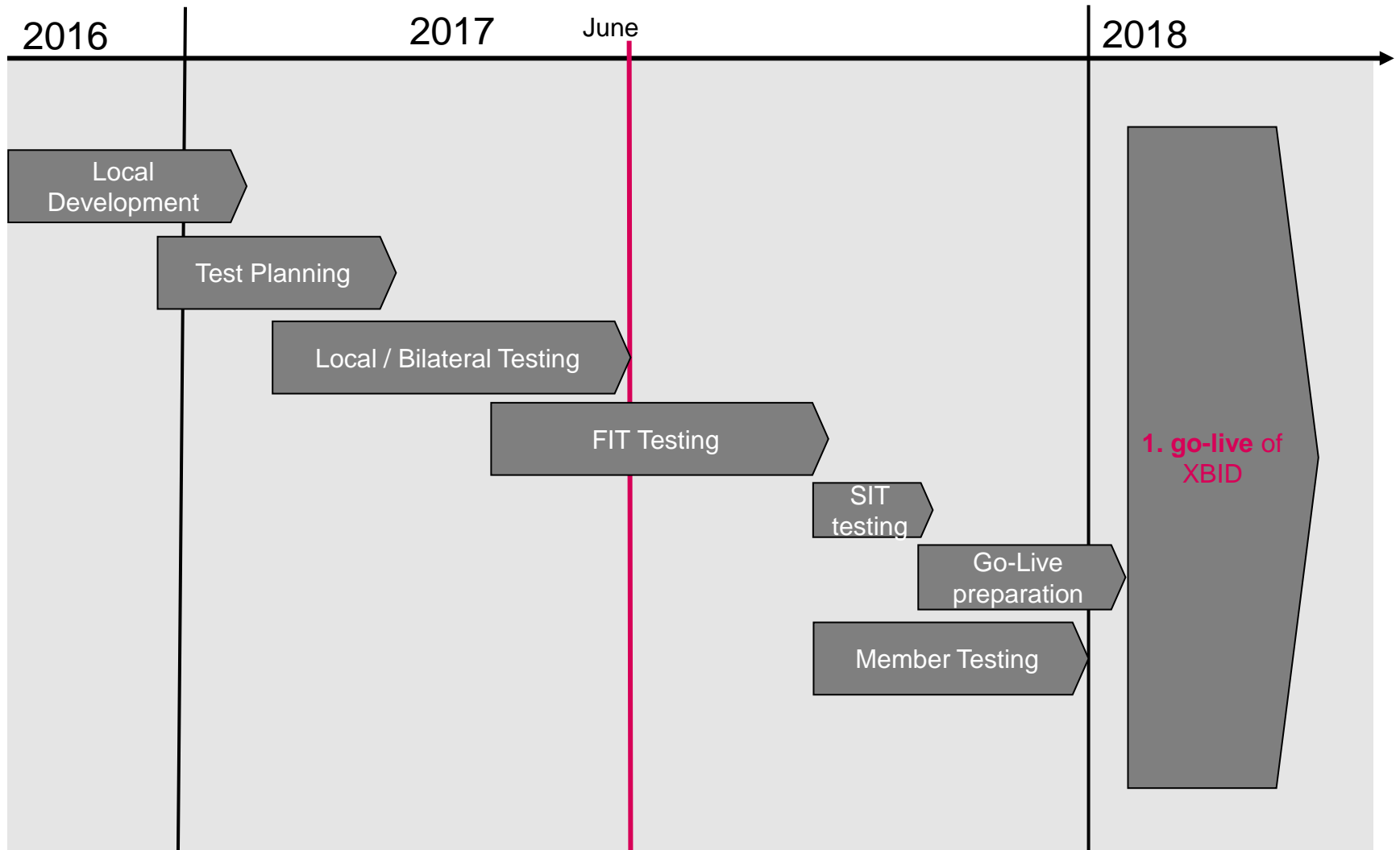
1. Status of the Baltic LIP Deliverables

- **Go-live preparations**
 - Rollback solution. To agree rollback solution for Baltic borders and areas.
 - ❖ **Discussions ongoing with TSOs and service provider**
 - Member testing
 - Possibility to run member test during Simulation Integration Test phase (Sep-Oct/2017)
 - ❖ **Planning ongoing, PX responsibility**

Participants	
<input type="checkbox"/>	Elering
<input type="checkbox"/>	Litgrid
<input type="checkbox"/>	AST
<input type="checkbox"/>	Fingrid
<input type="checkbox"/>	Svenska Kraftnät
<input type="checkbox"/>	Nord Pool
	Spoc Marja Eronen



2. Timeline for Baltic LIP



3. Challenges

- **Progress in LIP and Common project**

Smoothly progress in a LIP however challenging discussion on the XBID common framework (IDOA, Rollback procedures etc.) influences also to the LIP progress when part of LIP deliverables are depended on the outcome of the common project.

5. LIPs individual presentations

- a) LIP 1
- b) LIP 13
- c) LIP 2**
- d) LIP 3
- e) LIP 4
- f) LIP 5
- g) LIP 6
- h) LIP 8
- i) LIP 9&12



Kontek LIP

Katja Birr-Pedersen (Energinet.dk)



Content

- 1. Overview KONTEK LIP**
- 2. Changes resulting from XBID implementation**
- 3. Timeplan towards Go-Live**
- 4. LIP Project status**



Overview Kontek LIP

Geographical scope

- HVDC cable between Denmark (DK2) and Germany (DE/AT) Bidding-Zones

Existing ID solution in the area

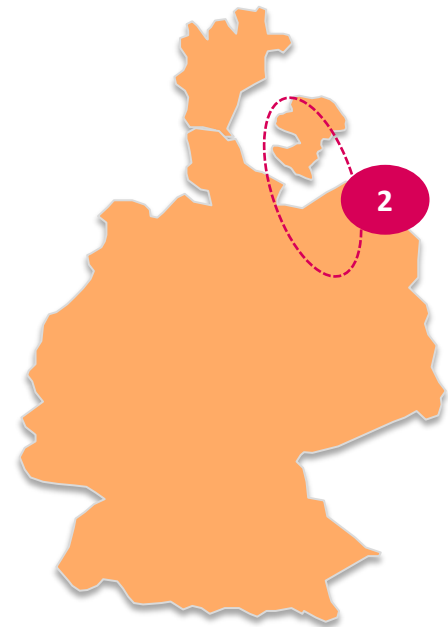
- Elbas: Operated by Nord Pool
 - Continuous market with Gate opening for KONTEK interconnector at 15:30) on D-1 and Gate closure at H-60min

Involved parties (TSO/PXs) in the project

- TSOs: 50Hertz & Energinet;
- PXs: Nord Pool & EPEX Spot

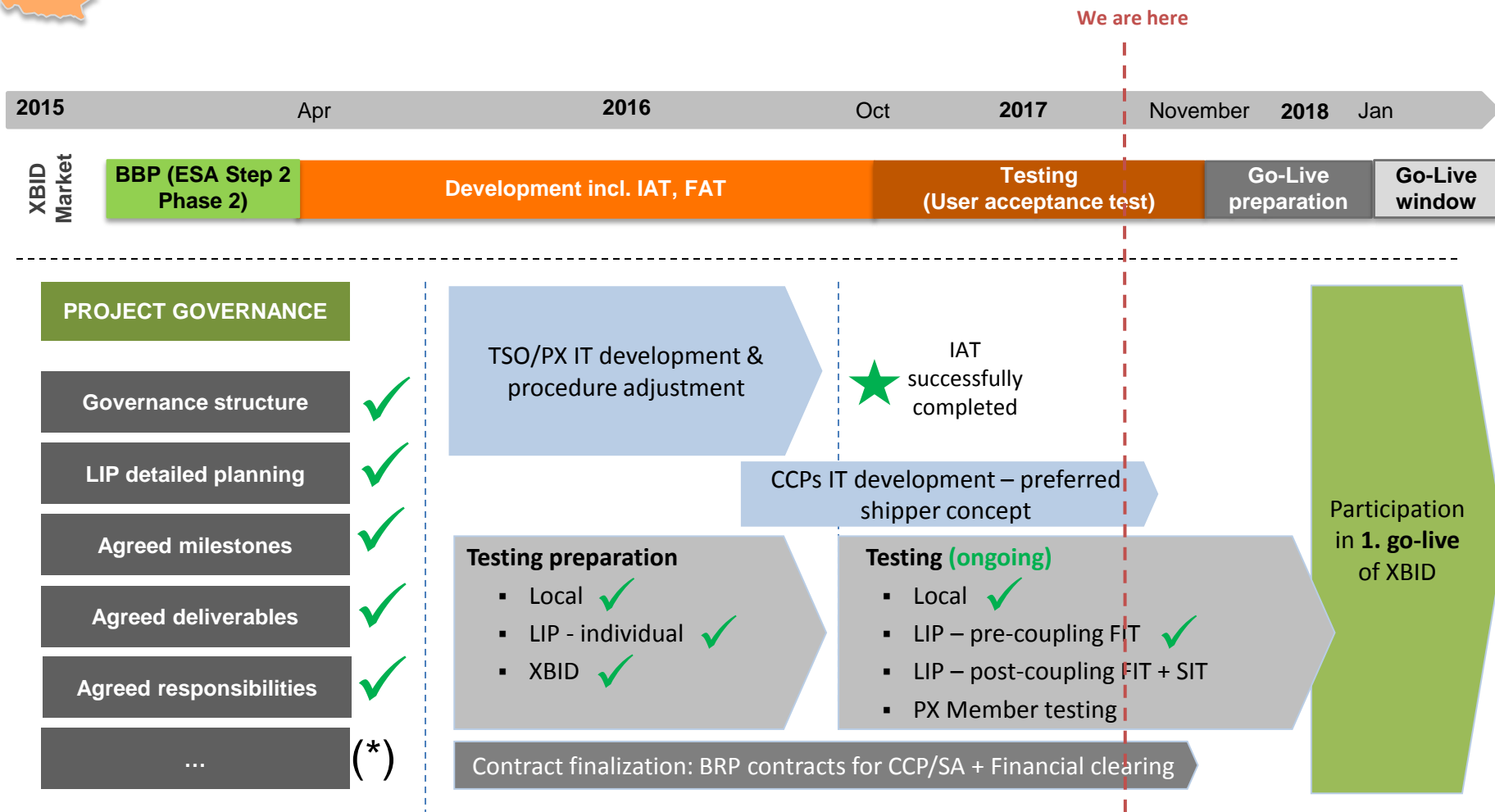
Foreseen type of allocation

- Implicit only (as today in day-ahead and intraday)





Timeplan towards go-live



(*) Handling of LIP related costs is currently done on two levels: TSOs share and cover LIP PMO costs, while cost sharing and recovery of NEMO costs are subject to individual agreements between each NEMO and national NRAs (still to be determined).



LIP Project status 1/2

Analysis

- High Level Architecture (HLA) for Kontek LIP agreed amongst project partners
- Analysis of interfaces, systems and procedures updates completed

IT development

- Local Trading Solutions developments completed → LIP testing continues
- CCPs/SA systems developments continue
- XBID System R1.2 implementation and testing in progress

LIP Testing

- LIP2 test plans elaborations according to standard introduced by XBID project completed
- Majority of bilateral tests completed
- Pre-coupling part of Functional Integration Test completed → issues identified resolved
- Post-coupling part of Functional Integration Test planned for July (including retesting with XBID System R1.2)

Procedures and contracts

- Required modifications in procedures assessed → central procedures to be followed
- Changes in existing operational contracts are dependent on the XBID project joint contract (IDOA) scope → no impact to market participants as cover contracts among TSOs/PXs



LIP Project status 2/2

Go-Live preparations

- Roll-back services under discussion of TSOs and assumed service provider
- Other deliverables preparation such as roll-forward scripts planned to be initiated in alignment with XBID project preparations (during summer)

Member testing and changes in LTS - communication to market participants

- Coordination rather PX specific than LIP specific
- Communication under PXs control

5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

XBID LIP 3 – NL-DE-DK1

User Group Presentation

Brussels: 20th of June 2017

Jérôme Calderan




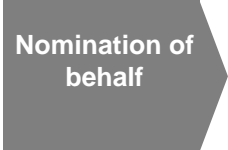
(Sia Partners for LIP3)



Agenda



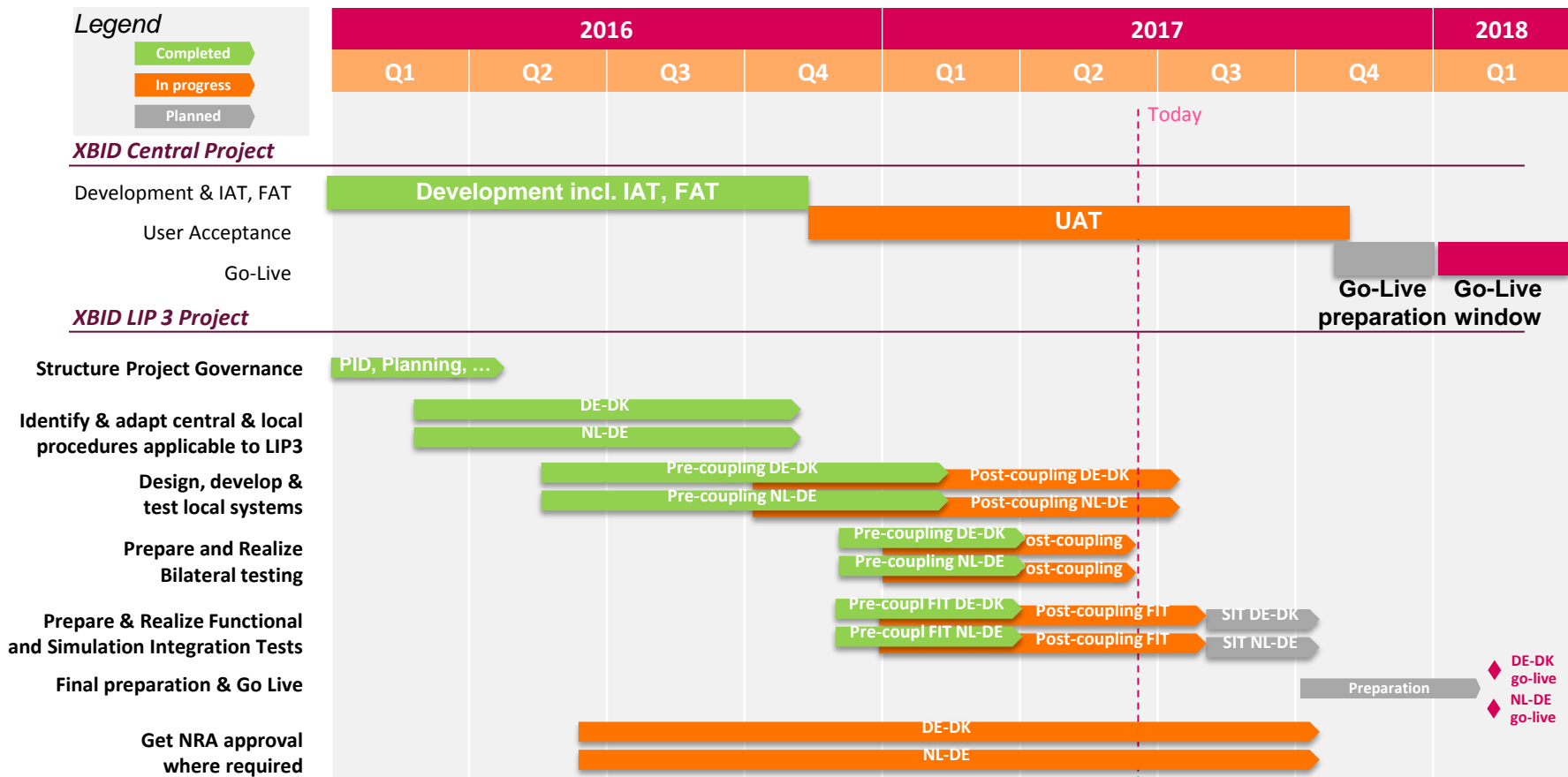
1. Local XBID Design – LIP3 has defined working principles that enable to progress while awaiting final decisions on some items

		Topic	Status
LIP3 DESIGN		Explicit capacity	<ul style="list-style-type: none"> • Explicit capacity allocation will not be offered on LIP 3 borders • NL & DK NRAs have confirmed this is not required • DE NRA is preparing a communication for LIP 3 TSOs
		Fallback	<ul style="list-style-type: none"> • There will be no fallback solution specific to implicit allocation on NL-DE and DE-DK1 borders in case XBID is down
		Rollback	<ul style="list-style-type: none"> • A rollback procedure is being designed - it will consist in going back to the ICS solution. In case this procedure is triggered, a specific communication will be shared with market parties using ICS. Envisaged rollback period is two months (to be finally confirmed)
		Nomination of behalf	<ul style="list-style-type: none"> • It will be applied in NL and DK where NRA validation procedures are ongoing • In DE, the decision-making process about NoB / nomination by CCP is still ongoing

Conclusion:

- Last design items are being taken care of. Conclusion to ongoing decision-making processes at NRA or TSO level is expected soon

2. Planning – LIP 3 Parties plan to go-live in Q1 2018



Conclusions: LIP3 Parties plan to go-live together with the 1st wave of LIPs



3. Detailed view on testing

Results of pre-coupling FIT – Under control !

– View on defects

Category	Total	Open	Closed
Critical	0	0	0
Major	1	0	1
Moderate	0	0	0
Minor	1	1	0
Total	2	2	0

– Two defects were found during testing:

- 1 is major but was solved shortly after discovered – is retested today
- 1 is minor and will be solved through release 1.2 – will be retested early July

– Regarding scenarios and test cases defined for LIP 3 pre-coupling, **all tests have been executed and the expected results have been observed.**

– LIP3 Testing Experts consider that pre-coupling FIT is successful.

Next milestones

- Mid-June: statement of readiness for FIT post-coupling
- End-June: bilateral tests fully completed
- July : post-coupling FIT
- September-October: Simulation Tests

4. Takeaways – Key messages to User Group

1 Still some design decisions are being processed and tackled within this LIP

2 FIT Testing occurs as expected. Next big steps are in July (FIT post-coupling) & September (SIT)

3 LIP3 Parties are on track to go-live with 1st wave

Back Up slide LIP 3

5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

LIP 4: NorNed User Group Meeting

Brussels: 20th June 2017



- **Project name: XBID NorNed LIP**

- **Participants:**

1. Statnett
2. TenneT (NL)
3. EPEX
4. Nord Pool

SPOC: Chris v.d. Beek (TenneT)

- **Objective:**

Implementing XBID for the interconnector NorNed in line with the XBID timeline. Ready for Go-Live in Q1/2018.



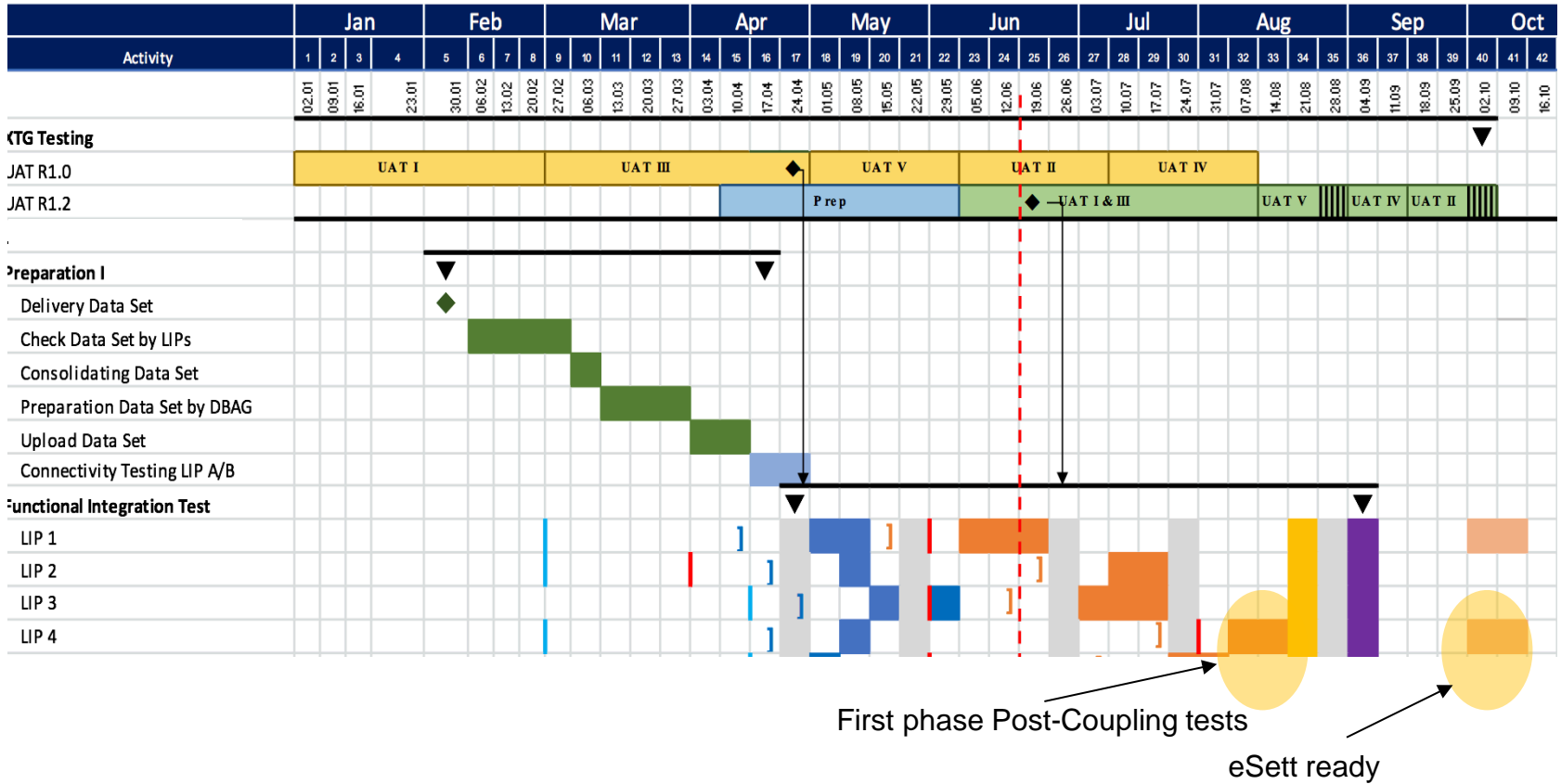
Current Status of the Project

- ✓ High Level Architecture (HLA) for XBID NorNed agreed amongst project partners. Base line for implementation joint and local activities.
- ✓ Parties have implementation and development teams active and modifying IT systems (development and testing) on the local level.
 - ✓ All required changes will be in place for the final testing round in October
- ✓ Parties have assessed and confirmed required modifications in local procedures
- ✓ Parties have assessed changes in existing operational contracts, which will be executed once the XBID project has agreed on the scope of the joint contract (IDOA).
- ✓ Among the available cross-border products at XBID level, only the hourly product will be implemented for this LIP border, at go-live.
- ✓ In line with the current solution on NorNed Intraday, no fallback solution will be implemented.
- ✓ A rollback solution using Elbas was presented and investigations are ongoing

Testing & IT changes

- LIP 4 as other LIPs have to be facilitated in testing with the XBID platform. Therefore a joint LIP test environment has to be set up including coordination on the central project level.
- A (central) XBID environment is available and local systems are connected for integrated LIP testing
- Environments are ready allowing the LIPs to test end-to-end until go-live.
- Main impact on IT systems is on shipping module, due to introduction of preferred shipper solution in multi NEMO environment.
- FIT pre-coupling successfully executed.
No major defect found for pre-coupling
- First phase of post-coupling testing to be completed by mid-August.
Preparations are on track.
- End to End testing with eSett (Nordic settlement solution) in place by first weeks October.

Testing & IT changes

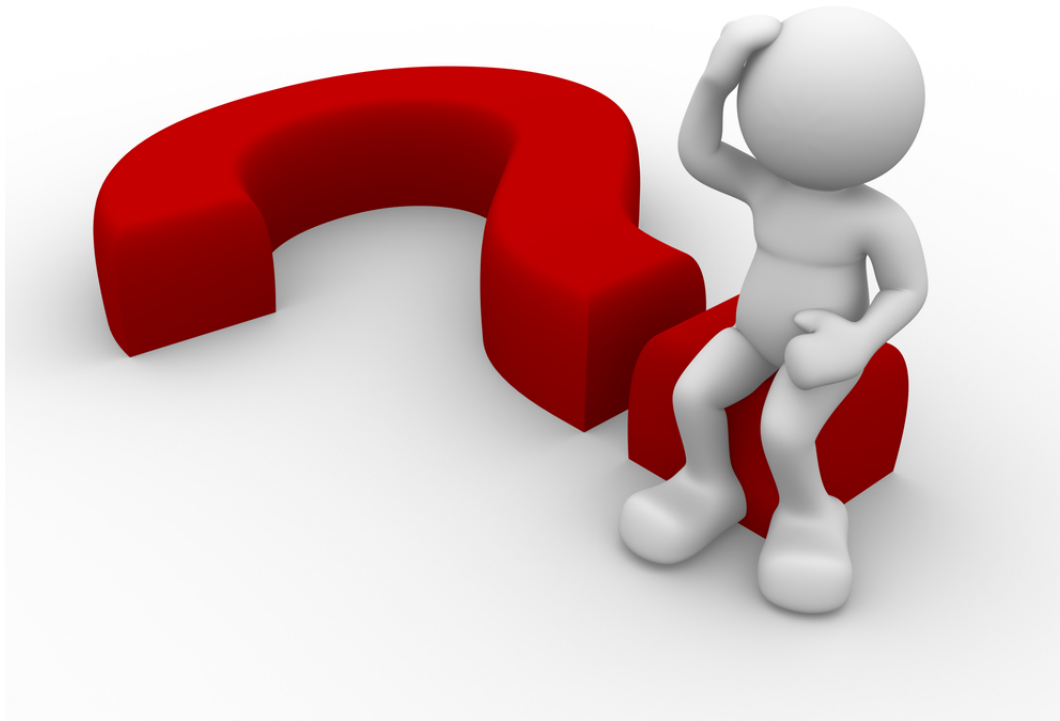


Challenges

1. Shipping Solution

- LIP 4 agreed on the Preferred Shipping Solution.
- A workaround has been found for the preferred shipper solution for both EPEX and Nord Pool, which was the last hurdle for implementation
- We are on track for necessary developments on the Nordic settlement system (eSett) (October '17 common testing)

Questions/Answers



5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

LIP 5: FR-DE-AT

User Group Meeting



Brussels: 20 June 2017

Gilbert Guntschnig, APG

Introduction

- 7 Project Parties from 3 Member States

Country	TSOs	NEMOs*
Austria	APG	EPEX SPOT Nord Pool
France	RTE	
Germany	Amprion TenneT DE TransnetBW	

Existing Intraday Mechanism:

- Implicit continuous coupling (First Come First Served Principle), Implicit & explicit** capacity allocation

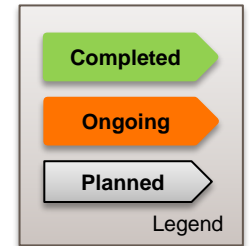
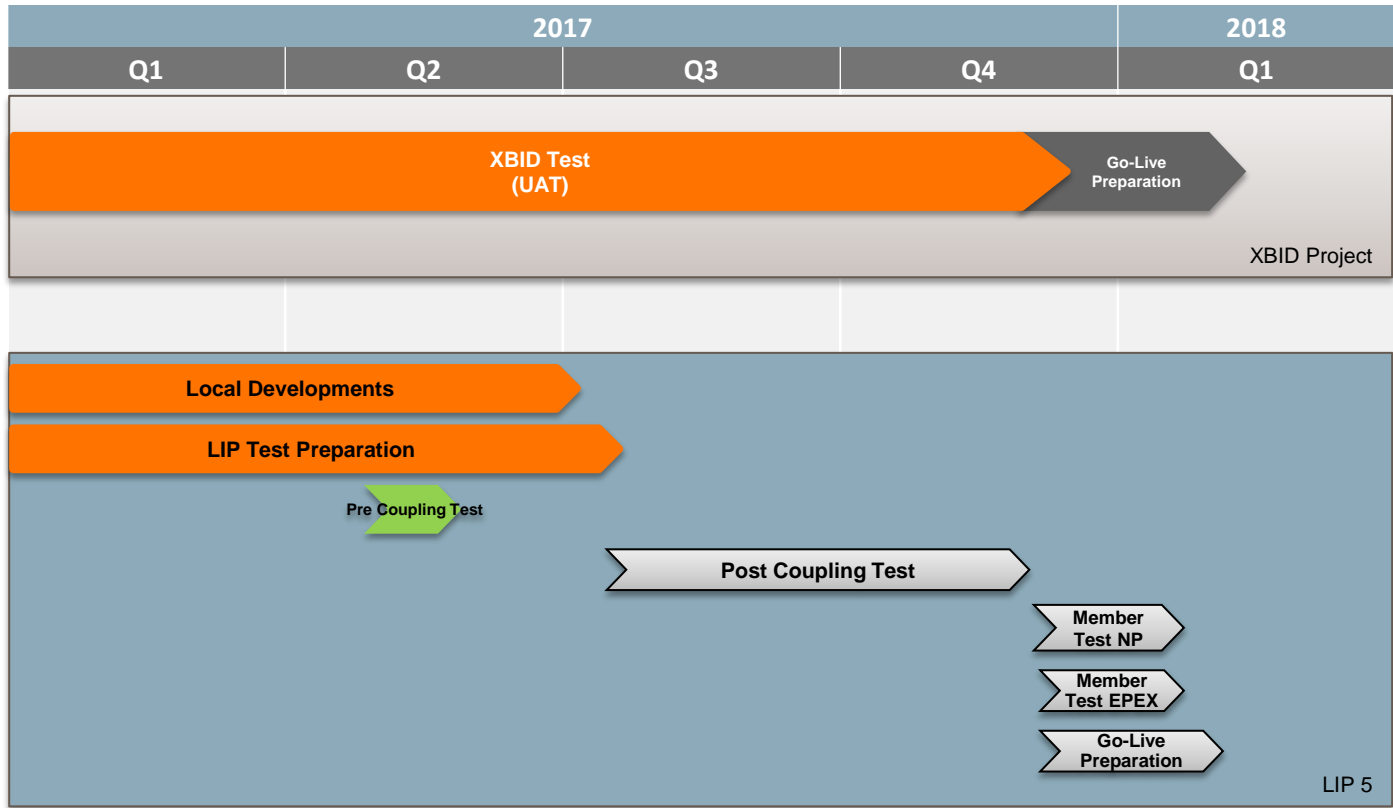
Project Objective:

- Implementing XBID in line with the XBID planning → Go-Live in Q1 2018

*The list of NEMOs represents the participating NEMOs in the LIP and does not reflect the exact status of NEMO designation in the respective countries.

** Explicit access has been confirmed by the respective NRAs for the border FR-DE.

Project Planning



Current Status

- ❑ Switzerland no longer part of LIP 5 (borders FR-CH and CH-DE) after the decision of the EC (Dec 2016).
- ❑ Shipping arrangements and nomination procedures defined.
- ❑ Connectivity tests against XBID successfully performed.
- ❑ Pre-Coupling Test Phase finalised.
- ❑ Preparation for Post-Coupling Test Phase ongoing, execution planned from end of July.

Implementation of Bidding Zone split DE-AT

- ❑ Congestion management to be implemented from 1 October 2018.
- ❑ No impact on timeplan for LIP 5 Go-Live and running operations expected.

	INTRADAY
IMPLEMENTATION DATE	30 September 2018
DELIVERY DATE	1 October 2018
PERIMETER	Integration into CWE process (Core process in the long term)
ALLOCATION	Implicit Allocation via XBID

5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

XBID Local Implementation Project 6 Belgian – Dutch border

6th User Group Meeting

20th of June 2017

Florent Beau (LIP 6 SPoC)

Overview

Objective:



Go-live of implicit continuous ID allocation via XBID on border BE-NL in Q1 2018 (go-live window 1)

TSOs

Elia

TenneT BV

NEMOs

EPEX

Nord Pool

Overall Status

- LIP Testing ongoing
 - FIT pre-coupling successful
 - Preparation for FIT post-coupling are ongoing
- Planning on track

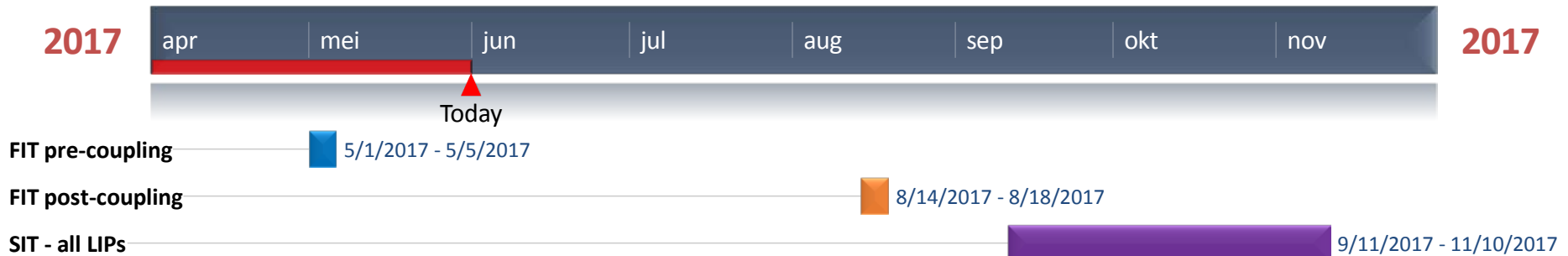


IT Changes & Testing

- On 04/10/2016, parties involved in BE-NL border switched to IT platform similar to XBID solution (same IT service provider). Materials (e.g. procedures) were re-used as much as possible.
- Main impact on IT systems is on shipping module, due to introduction of preferred shipper solution in multi NEMO environment
- NEMO local systems to be fully delivered in Q3 2017. They are mature enough for post-coupling testing from 1st of July.
- FIT pre-coupling successfully executed.
 - No major defect found for pre-coupling
- FIT post-coupling to be completed by mid-August.
 - Preparations are on track.
- Member Testing were discussed earlier in the session

2017

2017



Procedures

Procedural changes are mainly covered by XBID common procedures.

Three LIP 6 local procedures, on top of XBID common procedures, are agreed by all parties, related to the nomination of local and cross-border transactions.

These procedures have no impact for market participants.

Regional information meeting/consultation

Given that XBID solution is recognized as the single ID coupling solution, no specific regulatory approval is needed at LIP level.

- A notification describing the BE-NL border specificities will be sent to relevant NRAs, in due time
- Among the available cross-border products at XBID level, only the hourly product will be implemented for this LIP, at initial go-live.

There is no fallback solution within LIP 6. Possibility for a rollback is under discussion.

Conclusion & Questions

LIP6 go-live is still planned for go-live window 1

- No specific risk identified at LIP 6 level
- Main risks, regarding cost sharing and cost recovery, are identified and mitigation actions are organized at central level

Questions?



5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

XBID Local Implementation Project 8 Belgian – French border

6th User Group Meeting

20th of June 2017

Florent Beau (LIP 8 SPoC)

Overview

Objective:



Go-live of implicit continuous ID allocation via XBID on border BE-FR in Q1 2018 (go-live window 1)

TSOs

Elia

RTE

NEMOs

EPEX

Nord Pool

Overall Status

- LIP Testing ongoing
 - FIT pre-coupling successful
 - Preparation for FIT post-coupling on track
- Planning is on track



IT Changes & Testing

- On 04/10/2016, parties involved in BE-FR border launched implicit allocation on an IT platform similar to XBID solution (same IT service provider). Materials (e.g. procedures) were re-used as much as possible.
- Main impact on IT systems is on shipping module, due to introduction of preferred shipper solution in multi NEMO environment
- NEMO local systems to be fully delivered in Q3 2017. They are mature enough for post-coupling testing from 1st of July.

- FIT pre-coupling successfully executed.
 - No defect found for pre-coupling
- FIT post-coupling to be completed by mid-August.
 - Preparations are on track.
- Member Testing were discussed earlier in the session

Procedures

Procedural changes are mainly covered by XBID common procedures.

LIP8 local procedures, on top of XBID common procedures, are currently being drafted.

Those are related to the nomination of local and cross-border transactions. These procedures have no impact for market participants.

Regional information meeting/consultation

Given that XBID solution is recognized as the single ID coupling solution, no specific regulatory approval is needed at LIP level.

- BE-FR border specificities will be described in a notification to be sent to relevant NRAs, in due time.
- Among the available cross-border products at XBID level, only the hourly product will be implemented for this LIP, at initial go-live.

There is no fallback solution within LIP 8. Possibility for a rollback is under discussion.

Conclusion & Questions

LIP 8 go-live is still planned for go-live window 1

- No specific risk identified at LIP 8 level
- Main risks, regarding cost sharing and cost recovery, are identified and mitigation actions are organized at central level

Questions?



5. LIPs individual presentations

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

LIP9&12: SP-FR & SP-PT

Brussels, 20th of June 2017

EPEXSPOT
EUROPEAN POWER EXCHANGE

NORD
POOL

omie

Rte
Réseau de Transport d'Électricité

RED
ELÉCTRICA
DE ESPAÑA

REN

Content



Overview LIP9&12

Project name: LIP9&12

Participants:

Country	TSO	NEMO
LIP9	France	RTE (Full member of XBD project) • EPEX (Full member of XBD project) • Nord Pool (Full member of XBD project)
	Spain	REE (Observer of XBD project) • OME (Full member of XBD project)
LIP12	Portugal	REN (Part of the Accession Scheme) • OME (Full member of XBD project)

Enabling Intra-Day capacity allocation mechanism:

- SP-FR: 2 Explicit Auctions carried out by REE on behalf of RTE and REE
- SP-PT: 6 Sessions of Implicit Intra-Day auctions carried out by OME (Market Splitting)

Target model:

- Continuous intraday coupling allowing MPs to adjust positions after the Day-Ahead Market (XBD project) + potentially other auctions in some borders, in line with CACM (outside XBD project)

LIP9&12 Status

Description

- Technical & Operational:** Technical and Operational aspects such as the shipping arrangements needed, as well as any other features from the involved parties within LIP9&12, always from a technical and operational perspective, that need adaptations or updates, or that may even need to be created from scratch (IT systems, LTAs, implementation guides, etc.)
- Contractual:** Agreements that need to be implemented or updated between several parties within LIP9&12, that may include also 3rd parties involvement (i.e. banks). This may include cooperation, operational and interconnection agreements, among others.
- LIP Testing:** Milestones within the LIP Testing activity that need to be successfully completed by LIP9&12 by the set deadlines (connectivity, FIT pre-coupling and post-coupling, SIT)
- Regulatory:** Requirements from a regulatory perspective that the relevant parties need to comply with. This includes modifications that the involved countries applicable Ministries and/or NRAs have to approve in order for LIP9&12 to be able to go-live.

Next steps

Testing

- LIP9&12 post-coupling testing will be completed in July 2017
- Between September and October 2017 LIP9&12 will participate in the Simulation Integration Test (SIT)

Technical & Operational

- Procedures and other TAO modifications finalised

Contractual

- Contractual modification requirements finalised

Regulatory

- Regulatory adaptations finalised

Go-Live

- LIP9&12 is targeted to go live along with the XBD Solution (Q1 2018)

Overview LIP9&12



Project name

LIP9&12



Participants

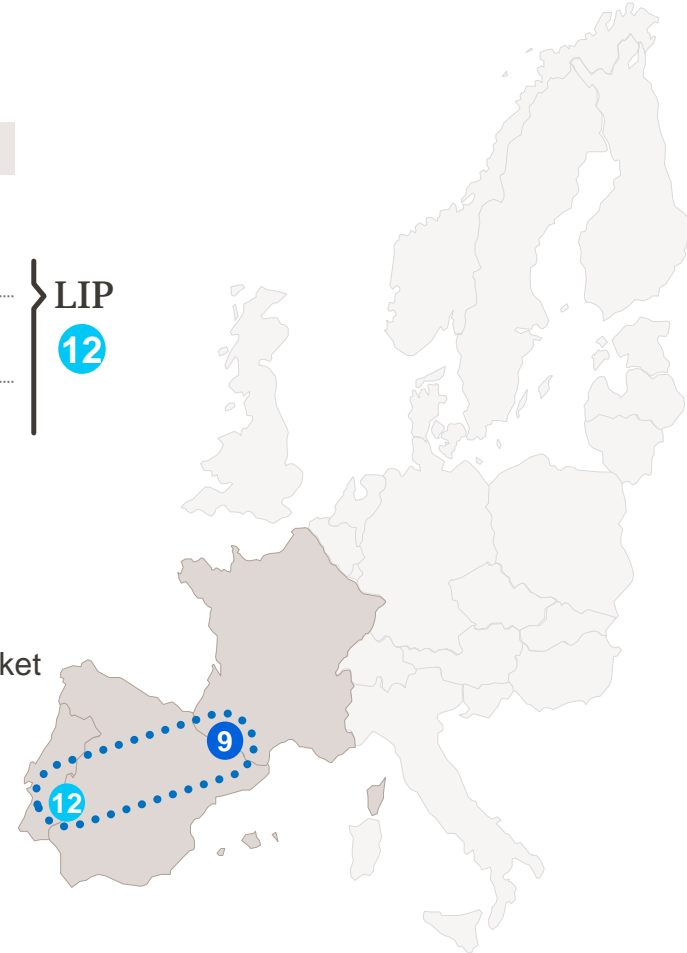
	Country	TSO	NEMO
LIP 9	France	RTE (Full member of XBID project)	<ul style="list-style-type: none"> EPEX (Full member of XBID project) Nord Pool (full member of XBID project)
	Spain	REE (Observer of XBID project)	<ul style="list-style-type: none"> OMIE (Full member of XBID project)
	Portugal	REN (Part of the Accession Stream)	<ul style="list-style-type: none"> OMIE (Full member of XBID project)
			LIP 12

Existing Intra-Day capacity allocation mechanism

- **SP-FR:** 2 Explicit Auctions carried out by REE on behalf of RTE and REE
- **SP-PT:** 6 Sessions of Implicit IntraDay auctions carried out by OMIE (Market Splitting)

Target model

- Continuous intraday coupling allowing MPs to adjust positions after the Day-Ahead Market (XBID project) + potentially other auctions in some borders, in line with CACM (outside XBID project)



Definition of LIP9&12 Activities/Deliverables

Overview LIP9&12	LIP9&12 Status	Next steps
	Technical & Operational Contractual LIP Testing Regulatory	

Description

Technical & Operational

Technical and Operational aspects as well as any other that need to be created or updated (**IT systems, LTS, implementation guides, shipping arrangements**, etc.)

Contractual

Agreements that **need to be implemented or updated** between several parties within LIP9&12 , that may include also 3rd parties involvement (i.e. banks). This may include **cooperation, operational and interconnection** agreements among others

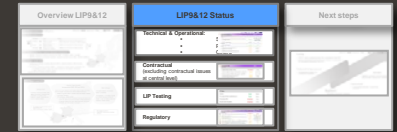
LIP Testing

Milestones within the LIP Testing activity that **need to be successfully completed** by LIP9&12 by the set deadlines (**connectivity, FIT pre-coupling and post-coupling, SIT**)

Regulatory

Requirements from a **regulatory perspective** that the relevant parties need to **comply** with. This includes **modifications** that the involved countries applicable **Ministries** and/or **NRAs have to approve** in order for LIP9&12 to be able to go-live

Activities/Deliverables – Current status (1/3)



Activity/Deliverable

Status

Technical and Operational

Shipping Arrangements

- SP-FR: Change Request (CR064) “Enhanced Shipper” will be implemented in R1.2 enabling LIP go-live
- SP-PT: Single shipper agreed

Finalised

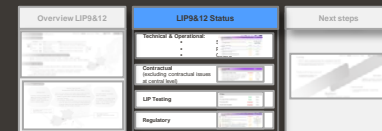
Other Technical & Operational aspects

- LIP9&12 High Level Architecture (HLA)
- Improvements in Local Trading Solution (PXs)
- Adjustments in IT systems (PXs)
- Adaptations in the new information exchanges (TSOs)
- Update of RTE-REE & REE-REN Implementation Guide

Finalised

Ongoing

Activities/Deliverables – Current status (2/3)



Activity/Deliverable

Status

Contractual

- Update of RTE-REE Cooperation Agreement
- Settlement link agreement OMIE-ECC & Trilateral agreement - bank/ECC/OMIE
- Settlement link agreement OMIE-NP & Trilateral agreement - bank/NP/OMIE
- Operational Agreement between NordPool and RTE
- Interconnection Agreement REN-OMIE

Ongoing

LIP Testing

Connectivity

FIT pre-coupling: Test Report was delivered 2nd June

Finalised

FIT post-coupling: LIP9&12

Not started yet

SIT: planned to start in mid September

Activities/Deliverables – Current status (3/3)

Overview LIP9&12	LIP9&12 Status	Next steps

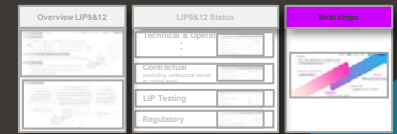
Activity/Deliverable

Status

Regulatory

- French I/E Rules
- FR-ES short-term allocation rules (IFE Rules) – already submitted to the NRA
- Spanish CNMC Circular 2/2014
- Annex of Spanish Royal Decree 2351/2004 (solution of technical constraints) and Royal Decree 2019/1997
- Spanish Operational Procedure 3.1
- Iberian Day Ahead and Intraday Market Rules
- Portuguese Regulation (RARI - Regulamento de Acesso às Redes e Interligações)
- Manual de Procedimentos da Gestão Global do Sistema do Sector Elétrico
- Manual de Procedimentos do Mecanismo de Gestão Conjunta da Interligação Portugal-Espanha

Ongoing



Testing

- LIP9&12 **post-coupling testing** will be **completed** in **July 2017**
- **Between September and October 2017** LIP9&12 will participate in the **Simulation Integration Test (SIT)**¹⁾

Technical & Operational

- **T&O modifications finalised**

Go-Live

- **LIP9&12 is targeted to go live** along with the **XBID Solution (Q1 2018)**

Contractual

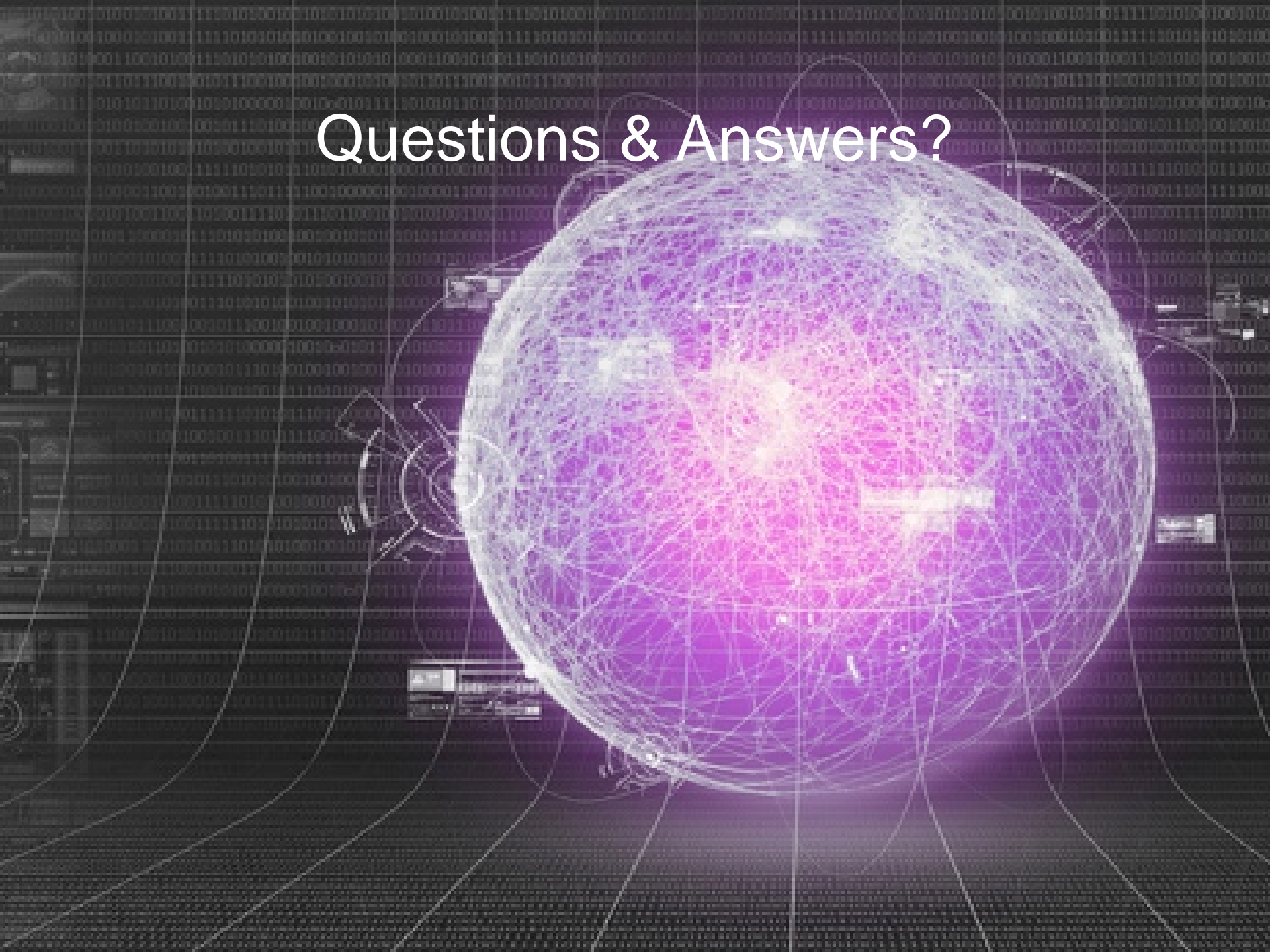
- **Contractual** modification requirements **finalised**

Regulatory

- **Regulatory** adaptations **issued by the Authorities**

¹⁾ in which the future production situation will be tested together with all LIPs

Questions & Answers?



Agenda

15:45-16:00

- 2. Project status overview**
- 3. ID products for go-live and future roadmap**
- 4. LIPs – general status overview**
- 5. LIPs individual presentations**
- 6. Closing remarks, reflections on the day and next User Group/User Forum**

Thank you very much for your attention!

A safe journey home.....