

5th User Group Meeting

Brussels, 08.11.16

Agenda

TIME	AGENDA ITEM	PRESENTER
10:45 – 11:00	Registration, Coffee	
11:00 – 11:05	1. Welcome, Agenda	Mark Pickles
11:05 – 12:25	2. Project status overview	Mark Pickles
12:25 – 13:00	3. ID products supported by XBID	Peter van Dorp
13:00 – 13:45	Lunch Break	
13:45 – 13:55	4. Recap on quick wins step 2 for BE-FR and BE-NL	Viviane Illegems
13:55 – 14:20	5. LIPs – general status overview	Katja Birr-Pedersen
14:20 – 15:45	6. LIPs individual status and progress reports a) LIP 1 b) LIP 13 c) LIP 2 d) LIP 3 e) LIP 4 f) LIP 5&11 g) LIP 6 h) LIP 8 i) LIP 9&12	Igor Honhoff Igor Honhoff Katja Birr-Pedersen Katja Birr-Pedersen Peter van Dorp Tjitske Kramer Tjitske Kramer Viviane Illegems Juan Fco. Pérez, Javier Barrantes
15:45 – 16:00	7. Closing remarks, reflections on the day	Mark Pickles

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- 2. Project status overview**
- 3. ID products handled by XBID**
- 4. Recap on quick wins step 2 for BE-FR and BE-NL**
- 5. LIPs – general status overview**
- 6. LIPs individual status and progress reports**
- 7. Closing remarks, reflections on the day**

Project Status Overview and follow ups from last UG Meeting

Mark Pickles

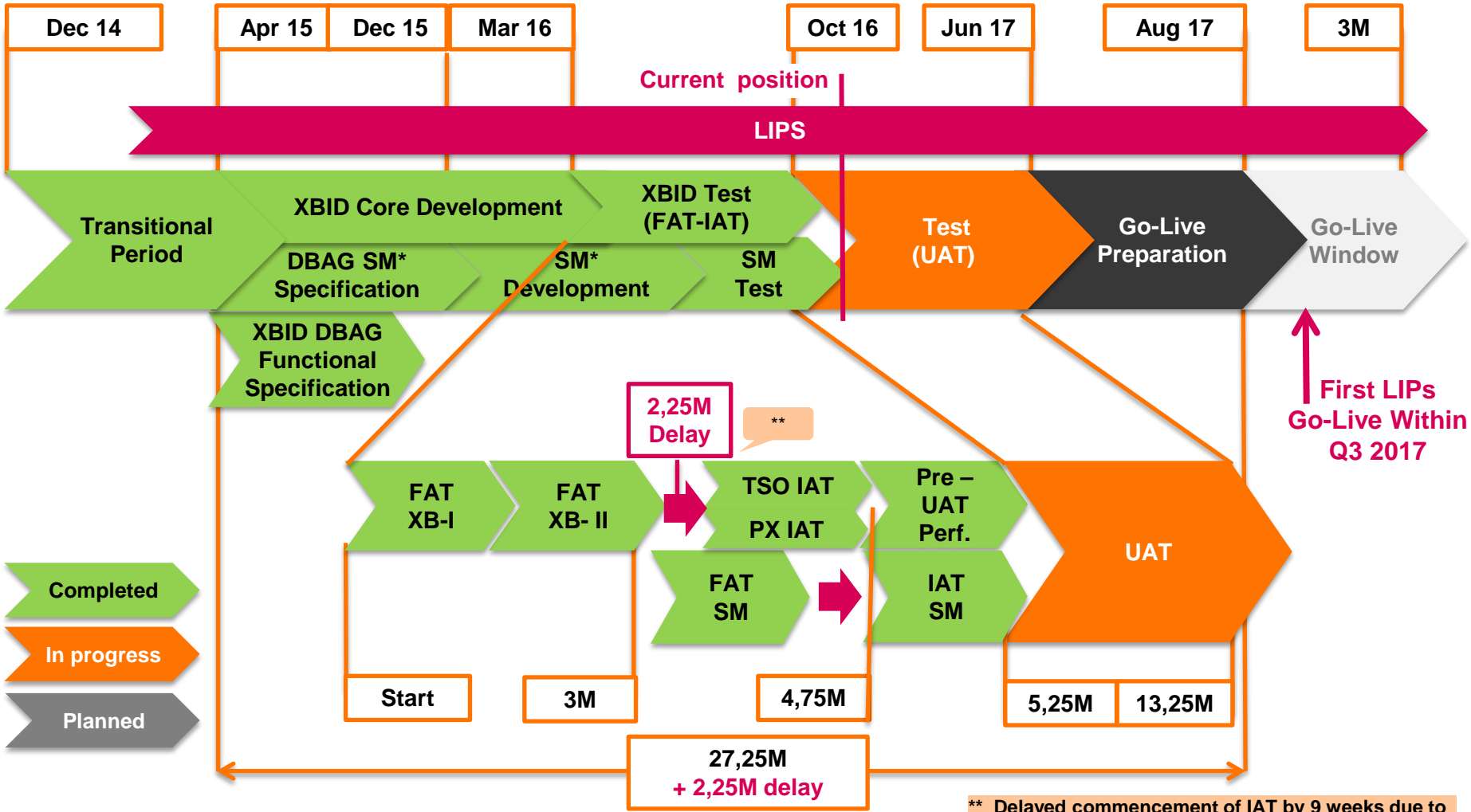
TSO Project Manager,

Convenor Communications Task Force, BMTF, IPT

Content

- 1. Project Timeline**
- 2. Project Progress**
 - Achievements**
 - Context**
 - Pre-UAT Performance Test**
- 3. Strategic roadmap**
- 4. Accession Stream Update**
- 5. Emerging risks**
- 6. Summary**
- 7. Follow-ups from 4th UG meeting**

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



*SM – Shipping Module

** Delayed commencement of IAT by 9 weeks due to late start of 3rd party support. Time used efficiently to progress important Gaps & Change Requests

2. Project Progress – Key achievements

XBID Development and Testing

- **Development of the Capacity Management Module (CMM), Shipping Module (SM) and Shared Order Book (SOB) has been completed.** ✓
- **All phases of Factory Acceptance Testing (FAT) have been successfully completed for CMM, SM and SOB.** ✓
- **TSO Integration Acceptance Testing (IAT), PX IAT, SM IAT and the Pre-UAT Performance Test phases have also been completed.** ✓
- **User Acceptance Testing (UAT) commenced on 11/10.** ✓
- **Implementation of the MPLSs (secure communications channels) has been successfully completed with COLT and Orange.** This proved to be very complex. ✓

Contractual

- **After extensive and challenging negotiations the Hosting contract was agreed and signed** ✓
- **The negotiation process for the DSA Maintenance has commenced** ✓

Accession

- **The Accession Stream is mobilised with regular Management Events. Knowledge Transfer has been managed through a series of workshops.** ✓
- **Some Accession parties plan to go-live in first XBID launch – End Q3 2017** ✓

Contextual/Procedural

- **TSOs decided that Preferred Shipper will be used as the interim shipping model which NRAs confirmed their support for** ✓
- **Positive progress has been achieved with the drafting of operational procedures.** ✓
- **Implementation Group held in September covering both NWE+ and Accession Parties** ✓

2. Project Progress – Context

XBID continues to be a complex project to deliver

Current challenges include:

Contractual

- Complete **DSA Maintenance negotiations before end December**
- Complete negotiations on the **ECP Endpoint Hosting and Maintenance Contract (TSOs)**

Local Implementation Projects Readiness for Testing

- **Entry Criteria have been agreed for Local Implementation Projects (LIPs)** who intend to join the first phase of LIP testing for go-live in Q3 2017. It is possible that not all LIPs will meet these criteria by February 2017

Context and Complexity

- Aligning on the roles for **Central Admin for each of the 3 modules – CMM, SM & SOB**. Questions such as how the service should be provided and how liabilities are covered are proving complex
- **Multiple NEMOs**. Modifications to the SM need to be made in respect to the shipping for borders where there is just one PX/CCP in a bidding zone (e.g. Italian Northern Borders, Iberian Peninsula and many Accession countries)

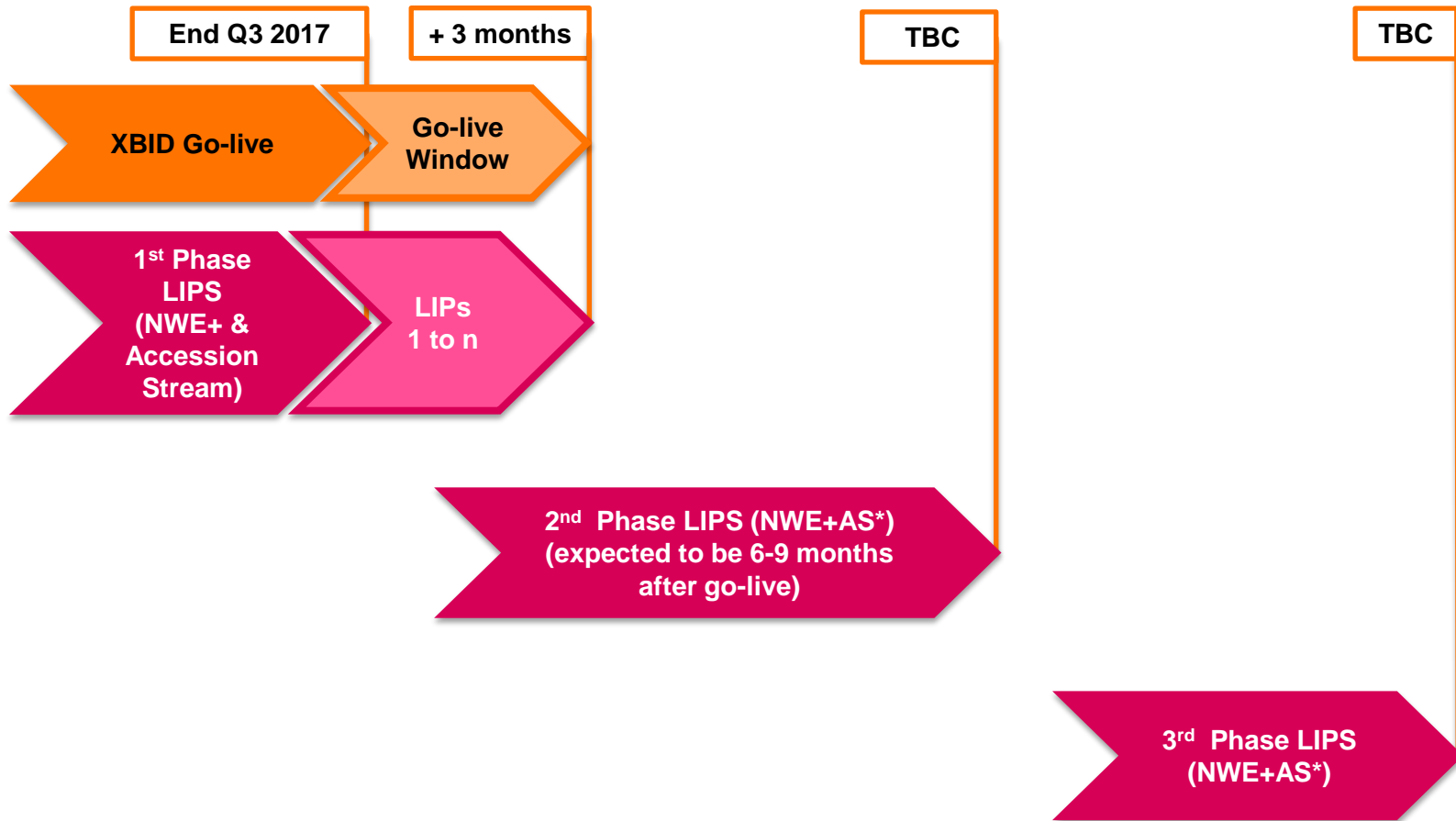
Organisation

- **Resourcing conflicts** due to the continued intensity of project activities, balancing the needs of AS parties and focus on future requirements such as Losses on DC cables.

2. Project Progress - Pre-UAT Performance Test – Results summary

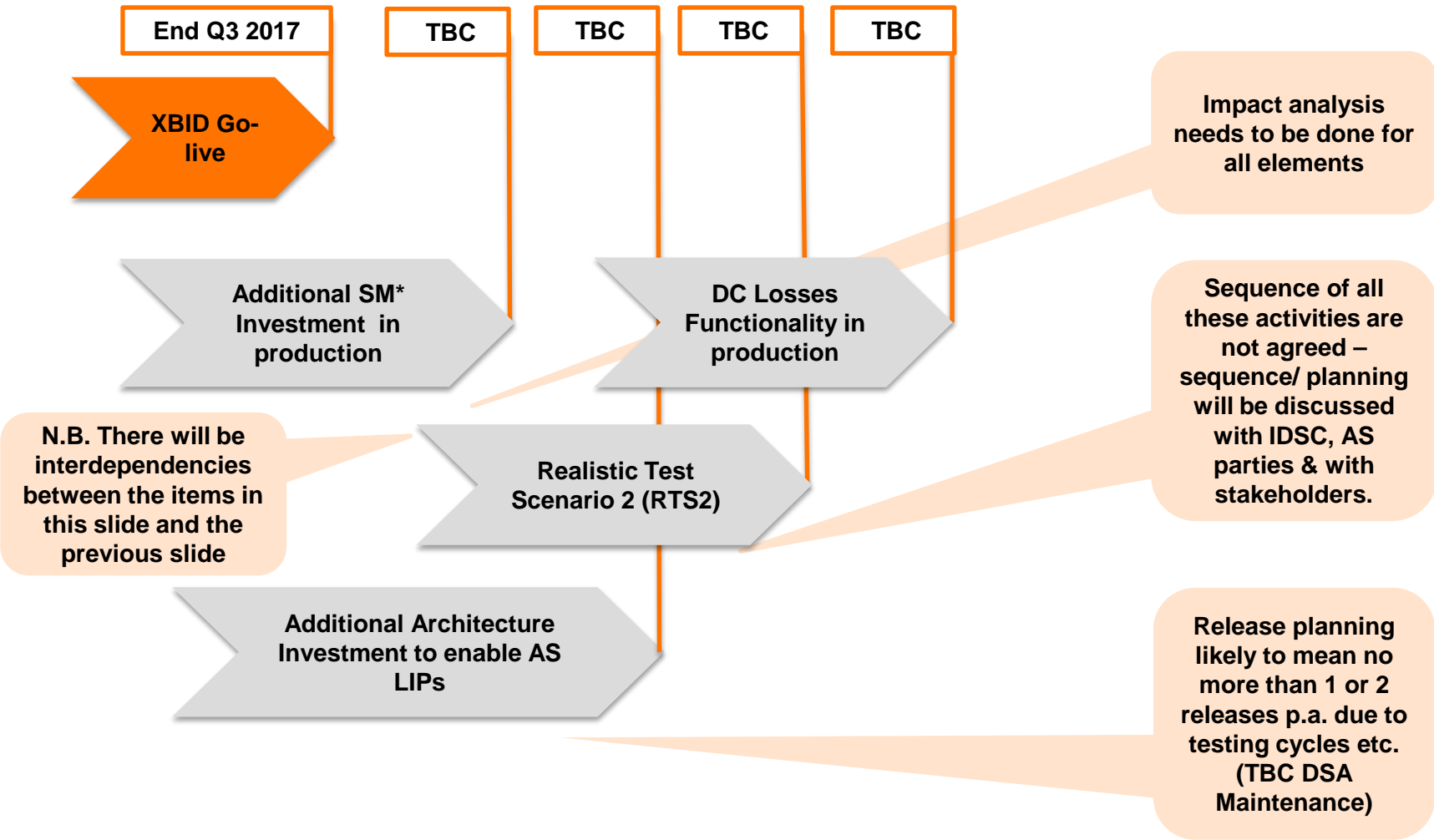
(XX % of the measures should be below the mentioned value)	Percentile values from the test run(SLA values)	Percentile values from the test run (SLA values)	Percentile values from the test run
Response Time Indicators (1)	95% (3)	99,50% (3)	99,95%
Order execution and trade capture response (3-4a/4b) – Indicator 1a and 1b	<p><u>Run I:</u> Cycle I – N/A Cycle II – 71ms Cycle III – 71ms</p> <p><u>Run II:</u> Cycle I – 80ms Cycle II – 80ms Cycle III – 92ms (895)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II –232ms Cycle III - 201ms</p> <p><u>Run II:</u> Cycle I - 221ms Cycle II - 250ms Cycle III - 233ms (1790)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II –324ms Cycle III – 313ms</p> <p><u>Run II:</u> Cycle I – 268ms Cycle II – 366ms Cycle III – 367ms (N/A)</p>
Response time of the API	<p><u>Run I:</u> Cycle I – N/A Cycle II – 1ms Cycle III – 1ms</p> <p><u>Run II:</u> Cycle I – 1ms Cycle II – 1ms Cycle III – 1ms (100)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II – 2ms Cycle III – 2ms</p> <p><u>Run II:</u> Cycle I – 3ms Cycle II – 4ms Cycle III – 3ms (200)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II – 11ms Cycle III – 14ms</p> <p><u>Run II:</u> Cycle I – 13ms Cycle II – 16ms Cycle III – 14ms N/A</p>
Public Order Books Reports response (3-6)	<p><u>Run I:</u> Cycle I – N/A Cycle II – 242ms Cycle III – 285ms</p> <p><u>Run II:</u> Cycle I – 263ms Cycle II – 279ms Cycle III – 270ms (1265)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II – 1174ms Cycle III – 1225ms</p> <p><u>Run II:</u> Cycle I – 1114ms Cycle II – 1173ms Cycle III – 1079ms (2530)</p>	<p><u>Run I:</u> Cycle I – N/A Cycle II – 2017ms Cycle III – 2182ms</p> <p><u>Run II:</u> Cycle I – 2023ms Cycle II – 2022ms Cycle III – 1719ms (N/A)</p>

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



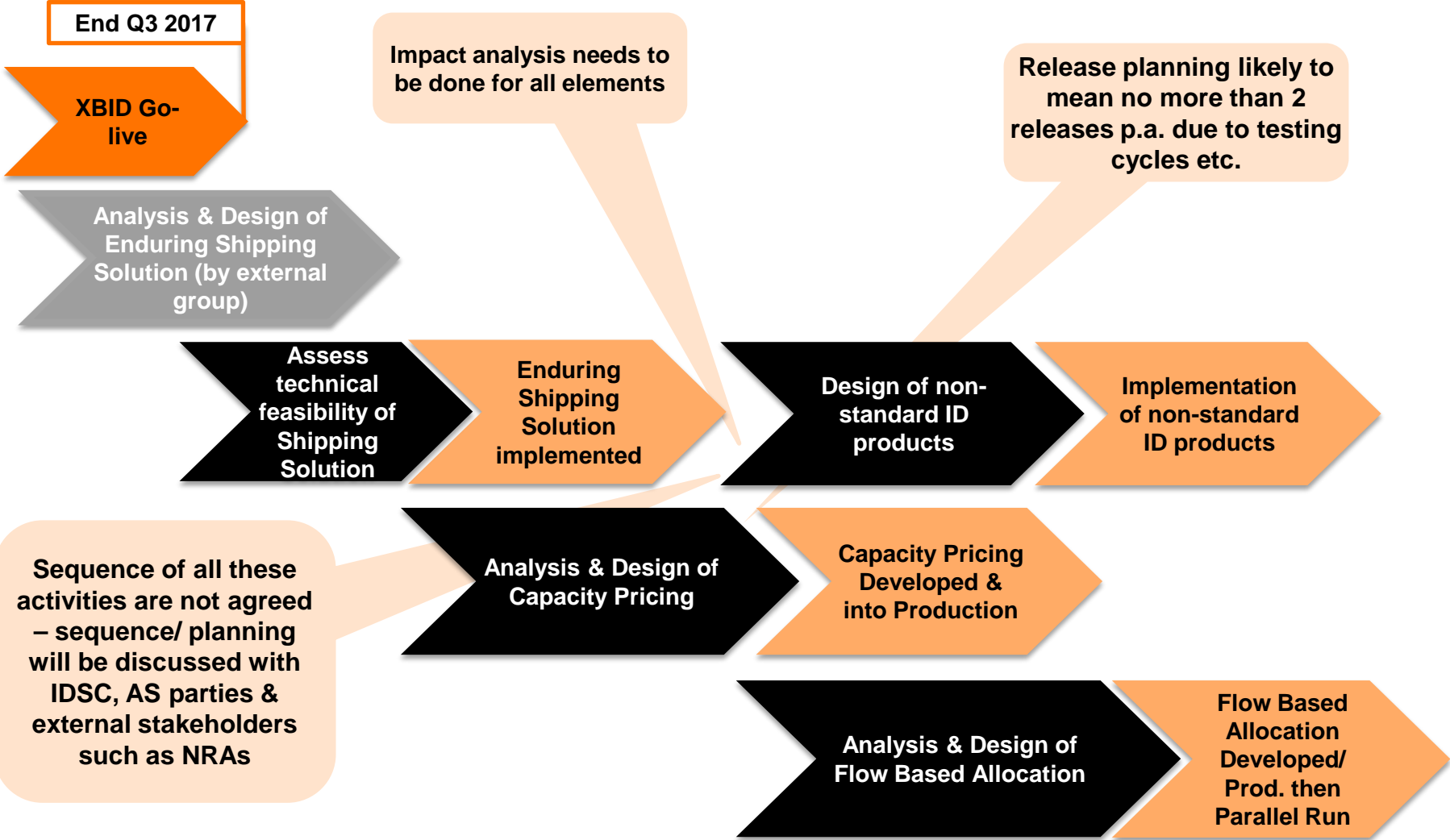
*AS – Accession Stream

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



*SM – Shipping Module

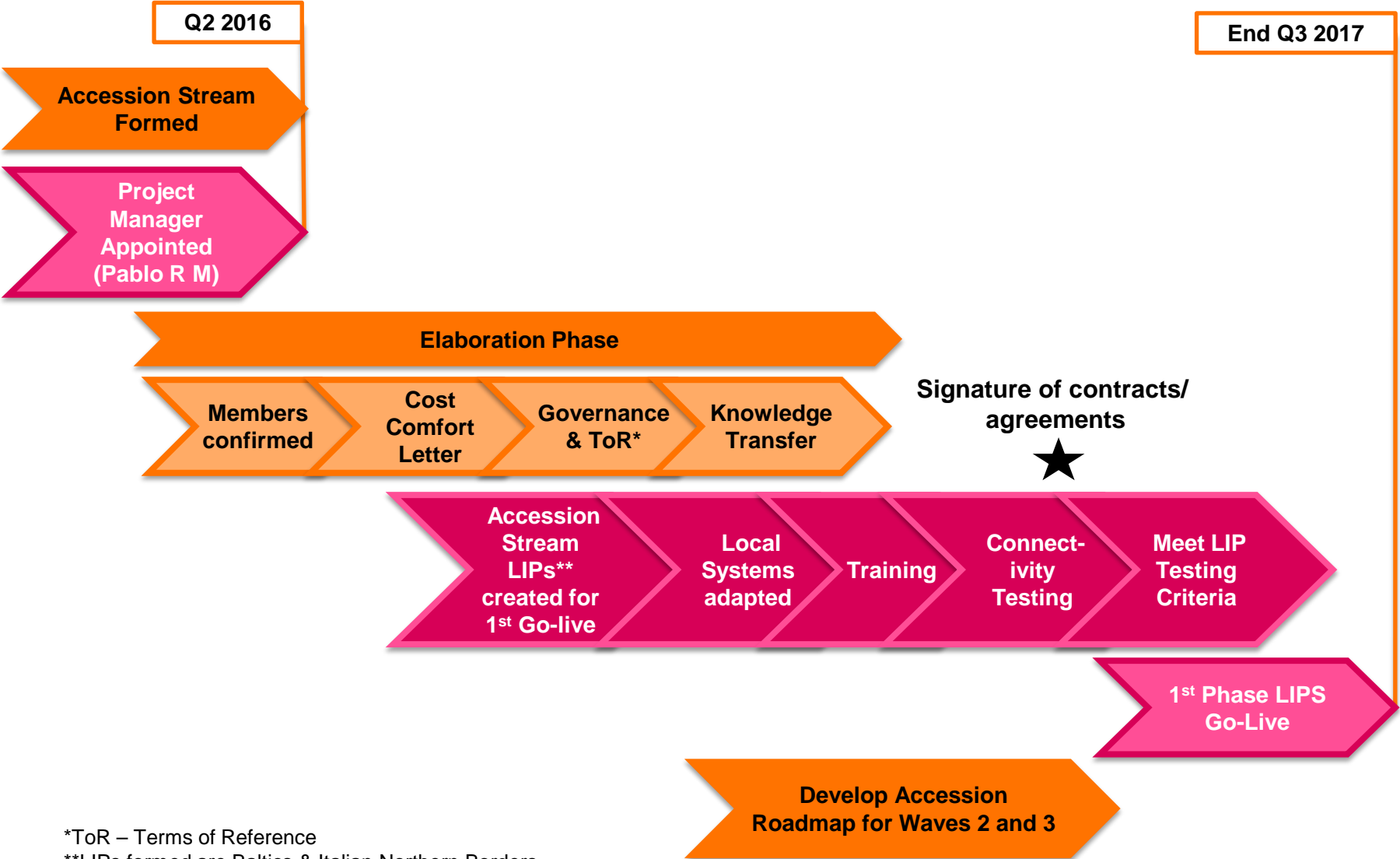
3. XBID Strategic Roadmap – Illustrative “Longer Term” sequence of design and implementation to be prioritised/agreed with stakeholders



4. Accession Stream Update

- The focus over the summer has been on Knowledge Transfer for the Accession Stream parties.
 - Four workshops have been held covering PXs, TSOs and LIPs knowledge transfer.
- Members of the Accession Stream have confirmed membership/or mobilisation of LIPs that plan to go-live in the first implementation of XBID (Q3 2017):
 - Baltics – 3 TSOs (Elering, AST and Litgrid) with Nord Pool
 - REN in Iberian LIP with OMIE and REE
- Regular Management Meetings continue to be held with the Accession Parties
 - One recent focus has been on starting to understand the XBID go-live timing preferences for Accession Parties. Many parties would like to be part of the foreseen second wave of go-live in 2018

4. Accession – Steps to Implement XBID




*ToR – Terms of Reference
 **LIPs formed are Baltics & Italian Northern Borders

4. Updated Accession Stream members List

Logo	Company	Country
	EXAA	 Austria
	IBEX	 Bulgaria
	Cropex	 Croatia
	HOPS	 Croatia
	OTE	 Czech Rep.
	Elering AS	 Estonia
	IPTO	 Greece
	Lagie	 Greece
	HUPX	 Hungary
	MAVIR	 Hungary
	Eirgrid	 Ireland
	AST	 Latvia
	Litgrid	 Lithuania

Logo	Company	Country
	TGE	 Poland
	PSE	 Poland
	REN	 Portugal
	OPCOM	 Romania
	Transelectrica	 Romania
	OKTE	 Slovakia
	BSP	 Slovenia
	ELES	 Slovenia
	CEPS	 Czech Rep.
	EMS	 Serbia
	Seepex	 Serbia
	Sepsas	 Slovakia
	Terna	 Italy

 Not adhered yet to AS ToR

5. Emerging risks

There are a number of emerging risks with potentially significant impacts:

- **The multi-NEMO situation in LIPs:** this is continuing to bring additional complexity from a technical (shipping arrangements) perspective. There is a challenge with implementing the Preferred Shipper model in a Regional/Single NEMO area. Project parties have agreed that if possible an interim solution will be used until the Shipping Module can handle that scenario (envisaged within 6 months after go-live).
- **Cost sharing and cost recovery perspectives of LIPs and LTS development costs.** To be agreed based on CACM.
- **The changing organisation of the NRAs:** risk for not providing timely answers to the project on cost recovery for additional costs.
- **Some LIPs might not meet entry criteria for LIP testing** (this commences January 2017)
- **Prioritisation and sequencing of multi-priorities** which project parties need to deliver (see Strategic Roadmap slides)

6. Summary

- The Development Phase is completed and Testing Phases are underway
- The results from the first testing phases are positive
- The Accession Stream is mobilised with the first phase (Elaboration) having been largely completed
- The first XBID Go-live is planned to be at the end of Q3 2017
- Some Accession LIPs have been formed with plan to be part of first go-live
- The project is complex and proves to be continually challenging
- There remains a considerable amount of strategic work and activity to be completed in an environment complexified by the implementation of CACM provisions (multiple NEMOs, cost sharing /recovery principles)
- **We all continue to invest extensively to deliver a successful XBID Go-Live in Q3 2017 and support Accession parties build their knowledge and plans to achieve successful XBID implementation**

7. Follow Ups from 4th User Group meeting

- 1) Provide feedback from LIP 9&12 if the LIP will be ready with all deliverables (yes/no questions from LIP monitoring) by end of 2016 – i.e. will the LIP be part of the first XBID go-live?
 - *Representatives of LIP 9&12 are present and will provide an update on this during their LIP presentation later today*
- 2) To map the types of ID products (duration, portfolio-based or unit-based) handled by the MCO in each market, including complex products (types of blocks, conditional offers,...)
 - *A presentation on products supported by the XBID solution will be given later today*
- 3) Shipping expert to be present. This topic was intensively discussed at the end of the meeting but PP were not able to answer all MP questions sufficiently.
 - *Experts are present*
- 4) Liaise with Terna if they – being member of the LIP INB – will become AS member/what is their status.
 - *Terna have confirmed that they are joining the AS and they will be signing the AS ToR*

Q & A



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ID products supported by XBID

Peter van Dorp

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

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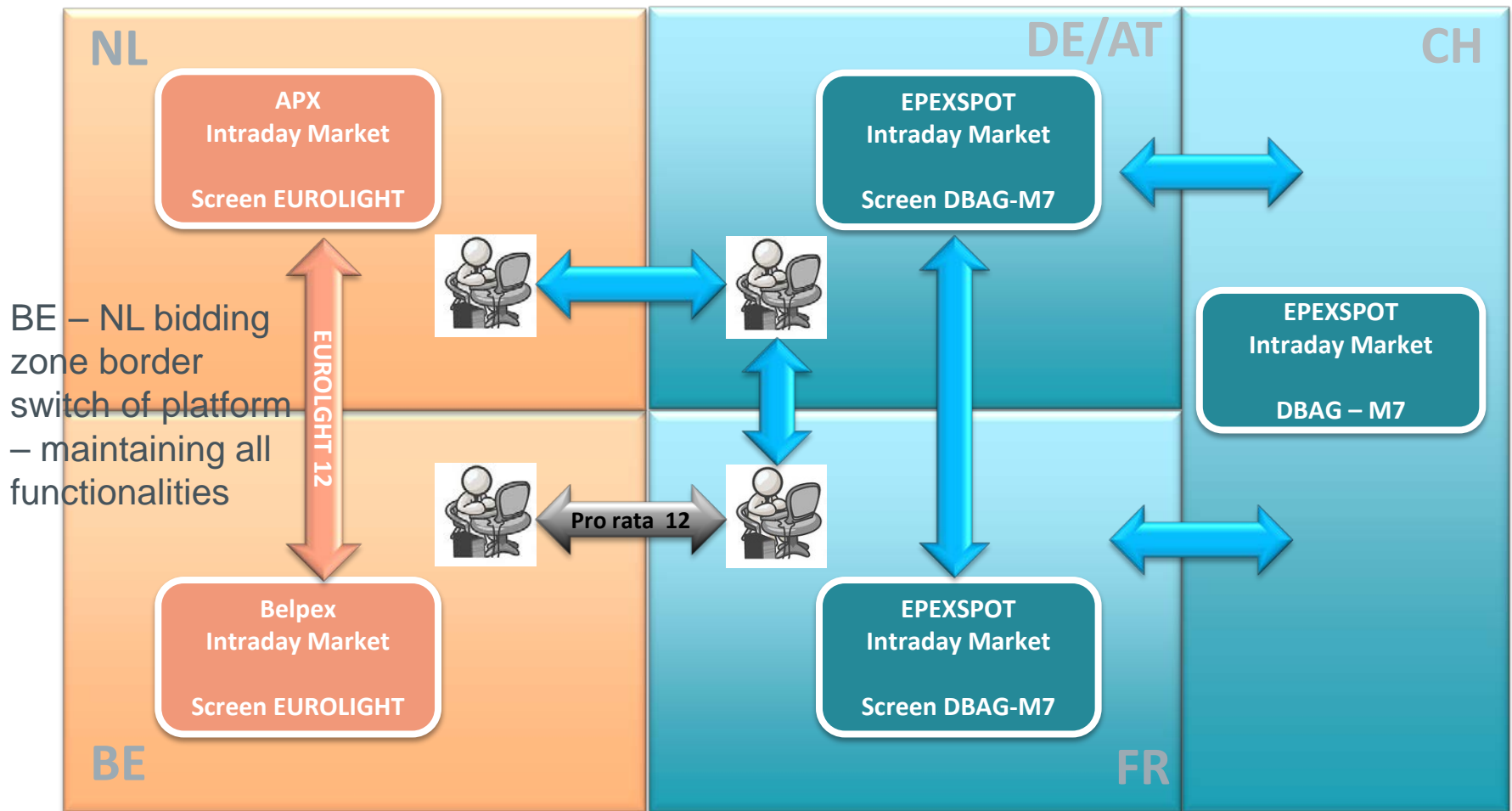
EPEXSPOT



Quick win step 2 – Belgium-France and Belgium-Netherlands bidding zone borders

Viviane Illegems – Elia - Market Development

Situation BEFORE Quick WINS ID since 8 SEPT 2015

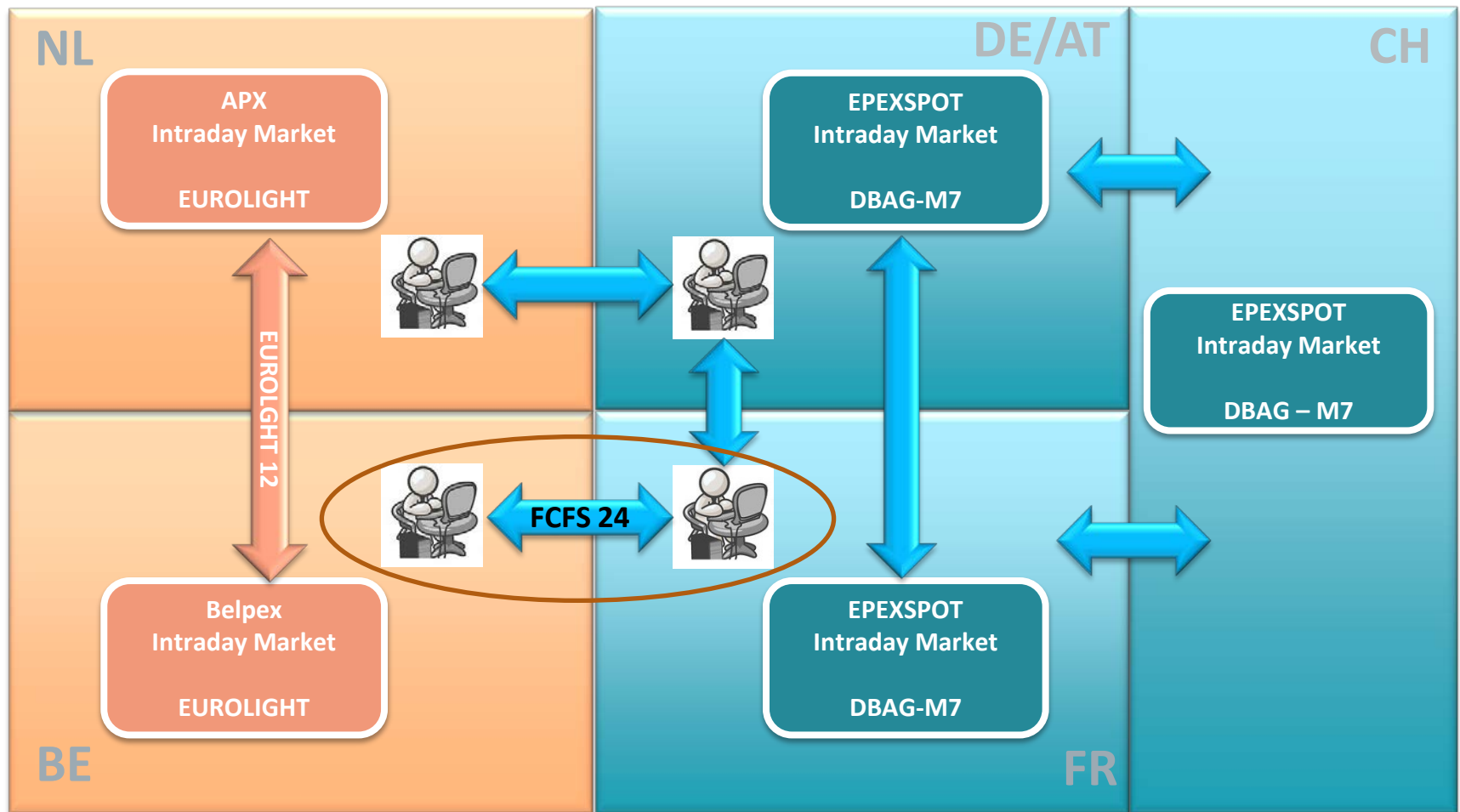


The Implementation of Quick Wins on the Belgium-France and Belgium-Netherlands bidding zone borders 2016

The Quick Wins were implemented in 2 steps

- Step 1 for BE-FR border - 22nd of March 2016 for first delivery 23th of March 2016
- Step 2 for BE-FR and BE-NL borders – 4th of October 2016 for first delivery 5th of October 2016

Quick Wins step 1 for BE-FR - 22nd of March 2016 for first deliveries on 23th of March 2016



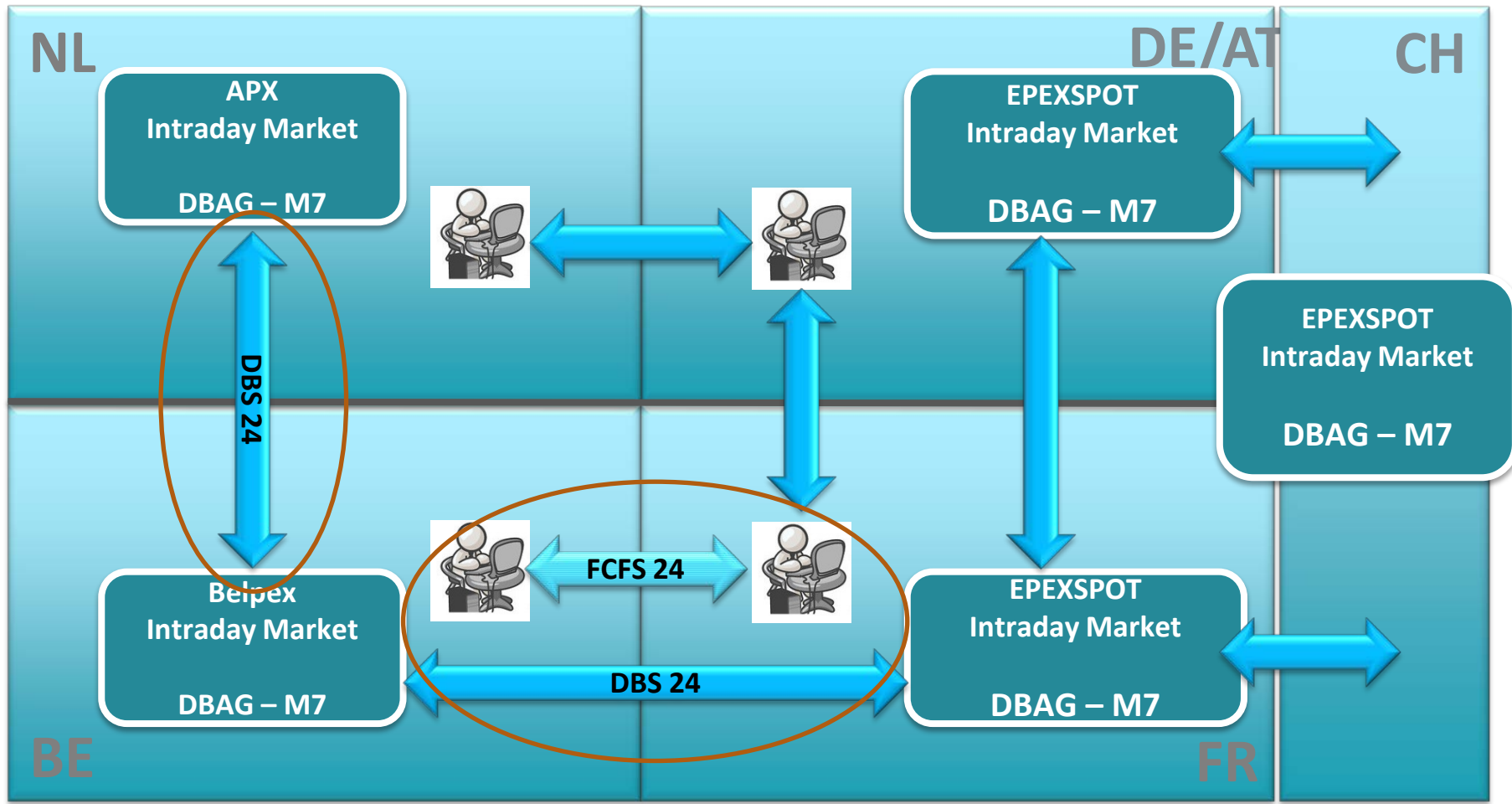
Quick Win Step 1 for BE-FR bidding zone border


- Involves Modification of technical features
 - RTE platform => « Intraday Capacity Service » (ICS) allocation platform provided by Deutsche Börse AG (DBAG)
 - Improved pro rate => FCFS (First Come First Serve)
 - Allocated = Nominated
 - Nomination on behalf
 - Neutralisation lead-time time of 1 hour instead of 2 hours
 - 12 Gates => 24 Gates
- Go-live:
 - CREG and CRE final decision was given on the 18th February 2016
 - Go-live 22nd of March 2016 for first deliveries 23rd of March 2016

Quick Win Step 2 for BE-FR and BE-NL bidding zone borders – 4th of October 2016 for first deliveries 5th of October 2016

- Explicit capacity allocation was replaced by implicit capacity allocation on the BE-FR bidding zone border keeping the same platform provided by DBAG and using the same platform as for the BE-NL bidding zone border
- Introduction of a new platform for the TSOs to enable implicit allocation for the BE-NL bidding zone border, the same platform as used for the BE-FR bidding zone border.
 - BE-NL border : EUROLIGHT platform => « Intraday Capacity Service » (ICS) allocation platform provided by Deutsche Börse AG (DBAG)
- 24 gates and 1 hour of neutralisation lead-time instead of 12 gates and up to 150 minutes lead-time
- Belgium and Dutch continuous markets operated on Eurolight system were migrated to EPEX trading platform M7. Coupling of the BE and NL markets with the EPEX intraday continental markets in France and Germany, Austria and Switzerland, already operated with M7. Trading system harmonized for market participants.
- The comparison between the two periods [20/09-03/10] and [05/10 – 18/10] shows an 41% increase of BE ID volumes and 79% increase of NL ID volumes (both local and cross-border volumes aggregated). Local OTC NL product also shows a great success.

Quick Wins step 2 – 4th of October 2016 for first delivery 5th of October 2016



 Fallback allocation not available during normal operation

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LIP Status Overview

Katja Birr-Pedersen
Convener SG LIPs

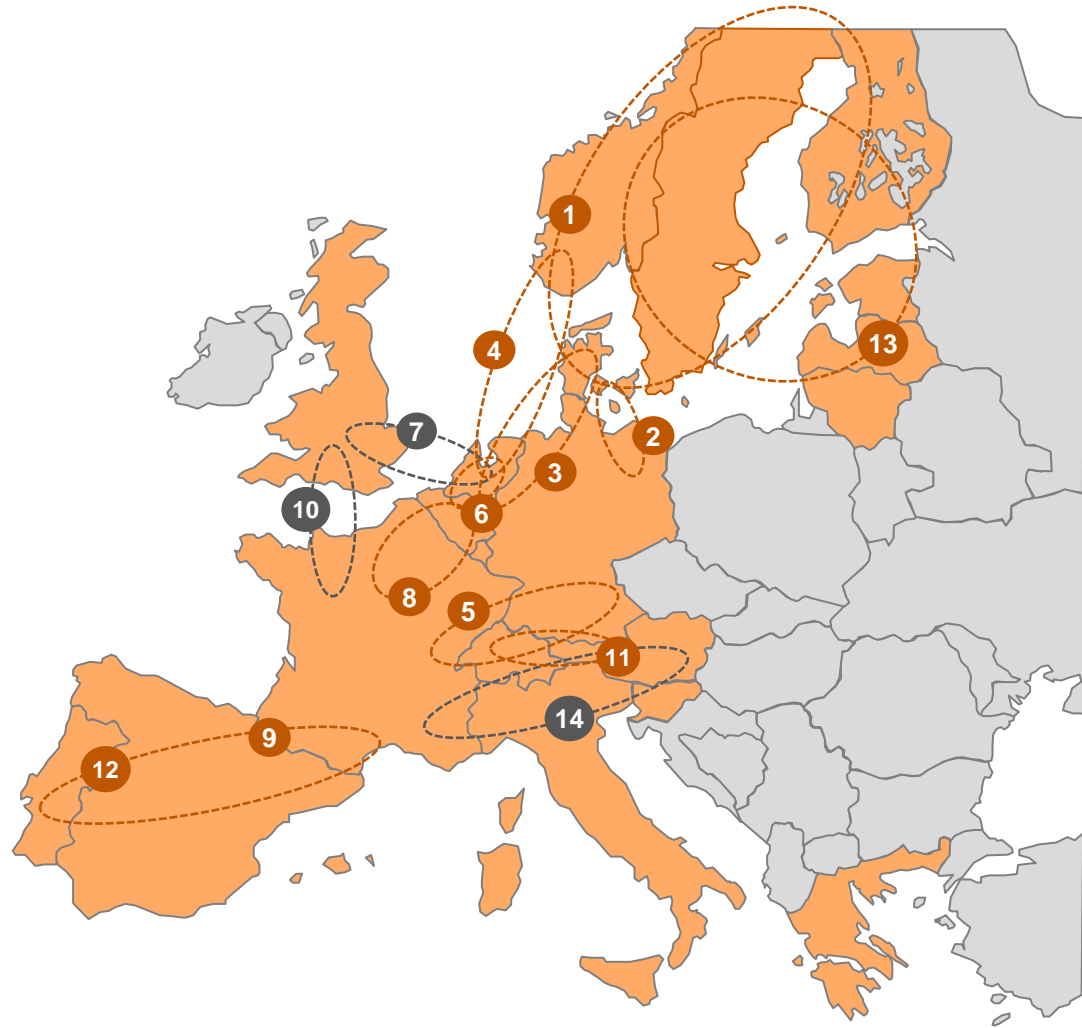
Overview of established LIPs

LIPs part of go-live Q3/2017

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, APX/Belpex, Nord Pool
4	NorNed	Statnett, TenneT NL, APX/Belpex, Nord Pool
5	FR/DE, CH/DE, CH/FR, DE/AT	Amprion, TransnetBW, APG, RTE, Swissgrid, EPEX, Nord Pool, Tennet DE
6	NL/BE	Elia, TenneT NL, APX/Belpex
8	FR/BE	RTE, Elia, APX/Belpex, EPEX
9 12	FR/ES&ES/PT	RTE, EPEX, OMIE, REE, REN
11	AT/CH	APG, Swissgrid, EPEX
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, APX
10	IFA	RTE, NG, Nord Pool, EPEX
14	INB	ADMIE, APG, ELES, RTE, Swissgrid, Terna, BSP, EPEX, EXAA, GME, LAGIE, Nord Pool



Status organisational set-up of LIP projects

- Progress: answers marked with * have changed their status from “No” to “Yes” compared to last UG meeting on 29/06
- New: progress on shipping arrangement decision and LIP Baltic and INB were added to this overview

LIPs part of go-live Q3/2017

LIP No	Countries involved	The project...							
		has already started ?	has a governance structure ?	has a finalized top-level planning ?	has agreed milestones?	has agreed on deliverables?	has agreed responsibilities amongst all parties?	has approved cost sharing and cost recovery principles according to CACM?	has made for each border within the LIP a decision on shipping arrangements?
1	DK-FI-NO-SE	Yes	Yes	Yes	Yes	Yes*	Yes	No	No
2	DE-DK Kontek	Yes	Yes	Yes	Yes	Yes*	Yes	No	Yes*
3	DE-DK-NL	Yes	Yes	Yes	Yes*	Yes*	Yes*	No	Yes*
4	NL-NO	Yes	Yes	Yes	Yes	Yes	Yes	No	No
5	AT-CH-DE-FR	Yes	Yes	Yes	Yes*	Yes*	No	No	Yes*
6	BE-NL	Yes	Yes	Yes	Yes	Yes	Yes	No	No
8	BE-FR ¹	Yes	Yes	No	No	No	No	No	No
9&12	ES-FR-PT	Yes	Yes	Yes*	Yes*	Yes*	Yes*	No	No
11	AT-CH	Yes	No	No	No	No	No	No	No
13	Baltic	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	No	No

¹ LIP concentrated on the successful implementation of the quick win and as of now the focus will be on XBID implementation.

Status Overview LIPs part of 1st go-live

LIP	Status Overall (Progress according to plan)	Explanation of status as provided by LIP
LIP 1	deadline potentially at risk	Project development are on schedule but project status is yellow as shipping agreement is not agreed which creates a risk for delay. The reason is that Nordic common balancing system (e-Sett) does not support multiple shippers on a border.
LIP 2	on schedule	
LIP 3	on schedule	
LIP 4	deadline potentially at risk	Project development are on schedule but project status is yellow as shipping agreement is not agreed which creates a risk for delay. The reason is that Nordic common balancing system (e-Sett) does not support multiple shippers on a border.
LIP 5	on schedule	
LIP 6	on schedule	
LIP 8	on schedule	
LIP 9&12	deadline potentially at risk	Project status is yellow as shipping arrangement is not agreed which creates a risk for delay. The reason is that both dual shipping and preferred shipper solution do not solve the multi-NEMO issue in France. This issue has been communicated to XBID in order to solve the issue with the current shipping module specification.
LIP 11	on schedule	
LIP 13	on schedule	

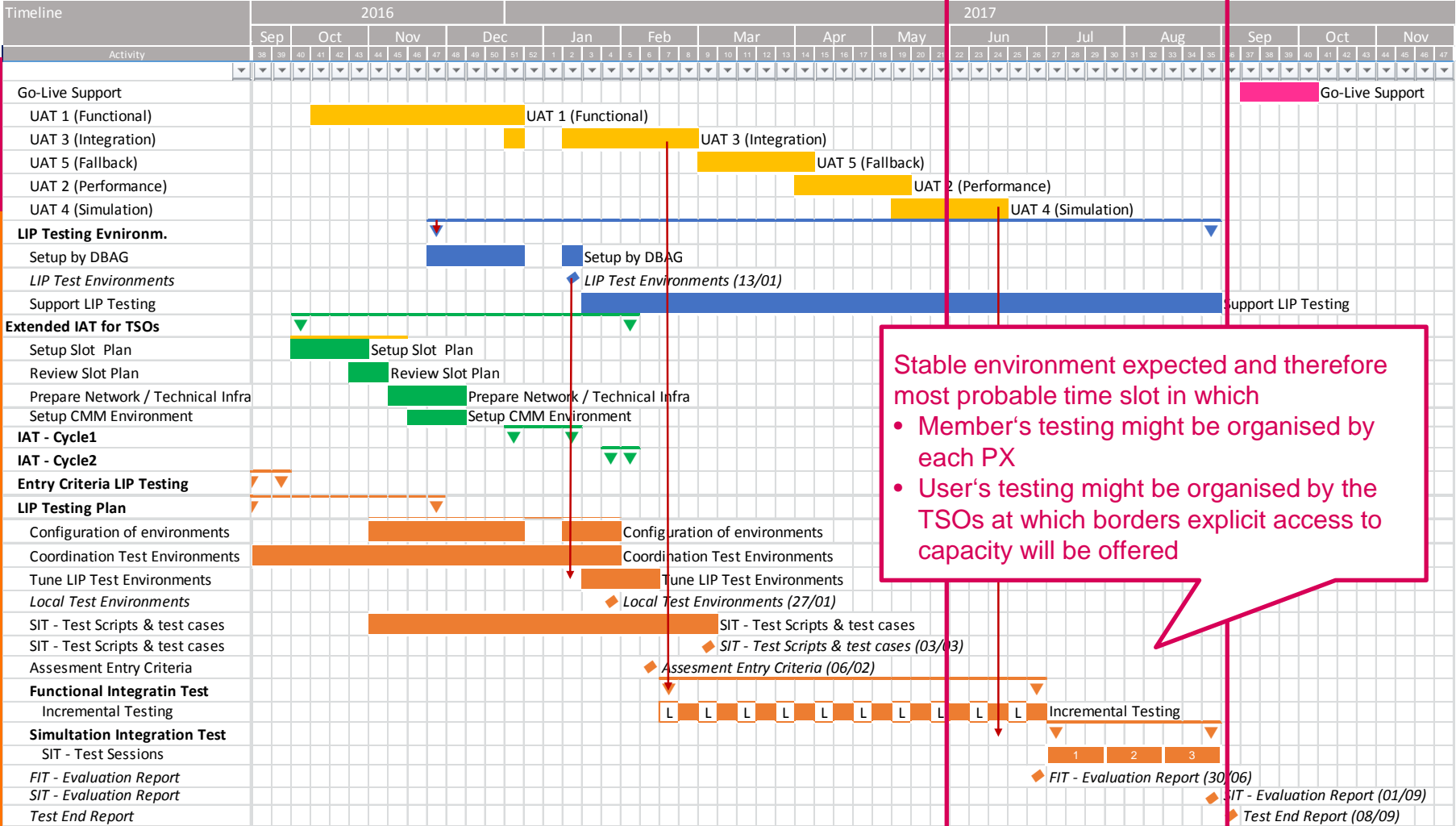
LIP Testing

- XBID project tests the XBID solution (CMM, SOB, SM) whereas it is the responsibility of LIPs to organise for the end-to-end testing (i.e. pre-coupling and post-coupling)
- Progress since last UG meeting:
 - LIP Testing Coordinator up to speed coordinating LIP testing with LIP test leads and managing required technical and commercial arrangements with DBAG:
 - Entry criteria for LIP testing agreed:
 - Minimal set of criteria to be fulfilled and proofed in order to start testing on the LIP Testing environments.
 - Purpose of the criteria is to establish well prepared and effective way of testing.
 - Main focus of LIP Testing is to validate the End-to-End readiness of the borders/interconnectors for which the LIPs are responsible.
 - Based on internal readiness (i.e. back-end systems ready, meeting defined defect criteria, test sets ready), a LIP will start testing on the LIP Testing environments; not all the LIPs will start at the same moment with LIP Testing.
 - LIP testing plan is under review and discussion
 - Additional test environment ordered and DBAG test support agreed
 - Agreement being drafted to allow Accession Stream parties part of first go-live to join testing (relevant for Iberian and Baltic TSOs)

Draft LIP test plan

XBID testing

LIP testing



Stable environment expected and therefore most probable time slot in which

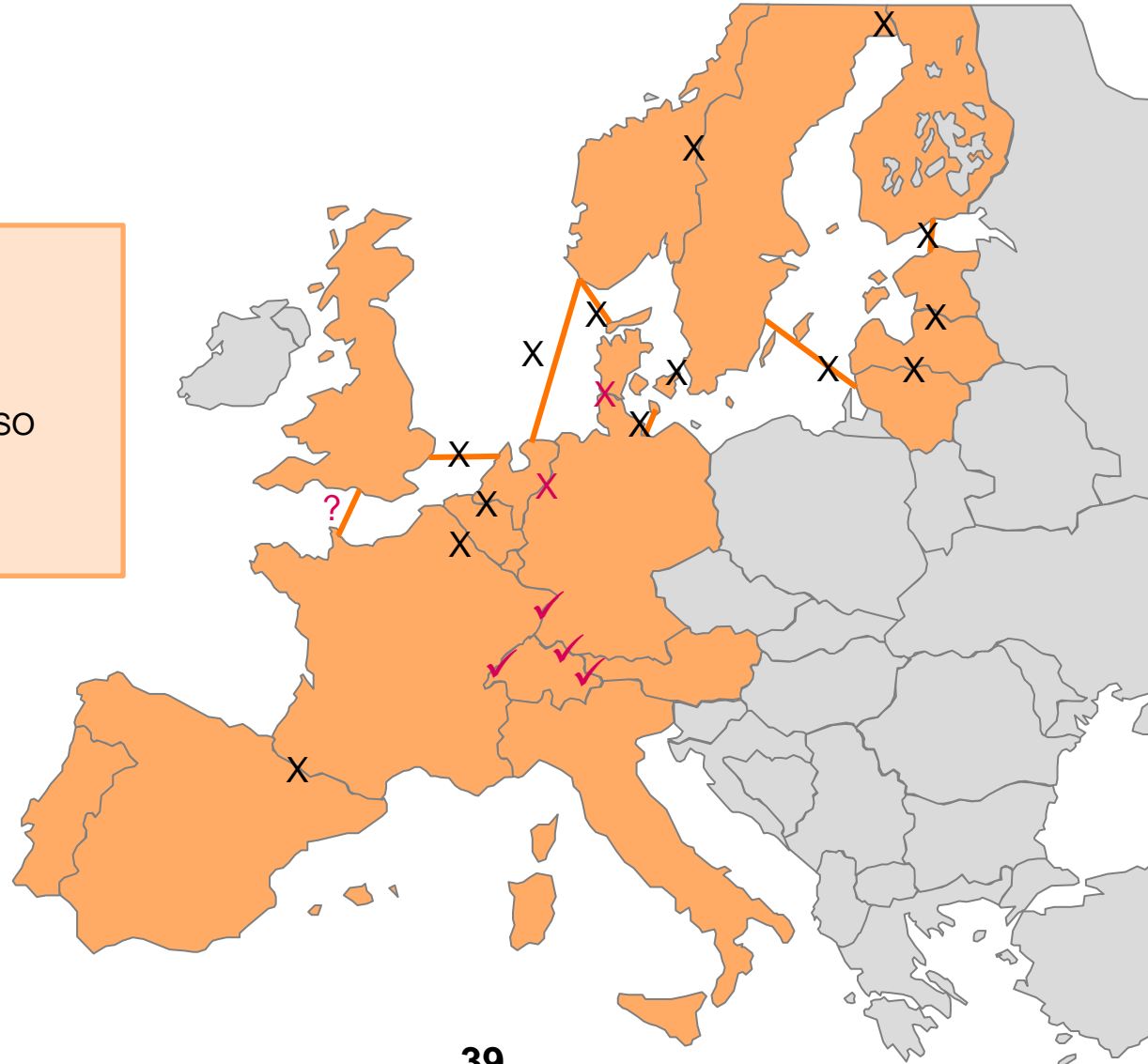
- Member's testing might be organised by each PX
- User's testing might be organised by the TSOs at which borders explicit access to capacity will be offered

◆ Local Test Environments (27/01)
 ◆ SIT - Test Scripts & test cases (03/03)
 ◆ Assesment Entry Criteria (06/02)
 ◆ FIT - Evaluation Report (30/06)
 ◆ SIT - Evaluation Report (01/09)
 ◆ Test End Report (08/09)

Indication of borders planning to offer explicit access to capacity

Legend

- X No explicit access will be offered
- X Consultation of NRAs is ongoing
- ✓ Explicit access to be offered by TSO (NRA approval granted)
- ? No decision taken yet



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6. LIPs individual status and progress reports

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5&11**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

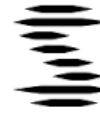
LIP 1



FINGRID

NORD
POOL

ENERGINET/DK



SVENSKA
KRAFTNÄT

Statnett

EPEXSPOT

LIP 1: Nordic LIP

User Group Meeting

Igor Honhoff

1. Introduction to the XBID Nordic LIP

Participants

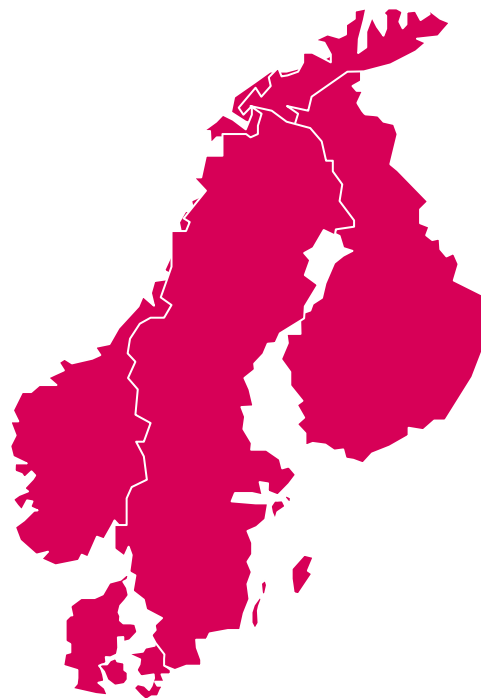
- Statnett
- Energinet.DK
- Fingrid
- Svenska Kraftnät
- Nord Pool
- Epex Spot

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. Impact and changes for the market parties

Market parties will through the shared orderbook gain access to all intraday liquidity at the PXs implementing the XBID solution

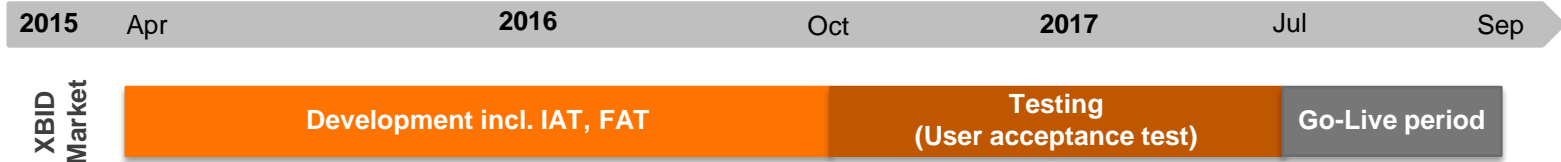
Market party facing changes are expected to be minor and will be communicated in due time

Market parties will be invited to member testing by the Nordic LIP to ensure compatibility between all parties prior to go-live: Member tests planned towards Q2/Q3 2017

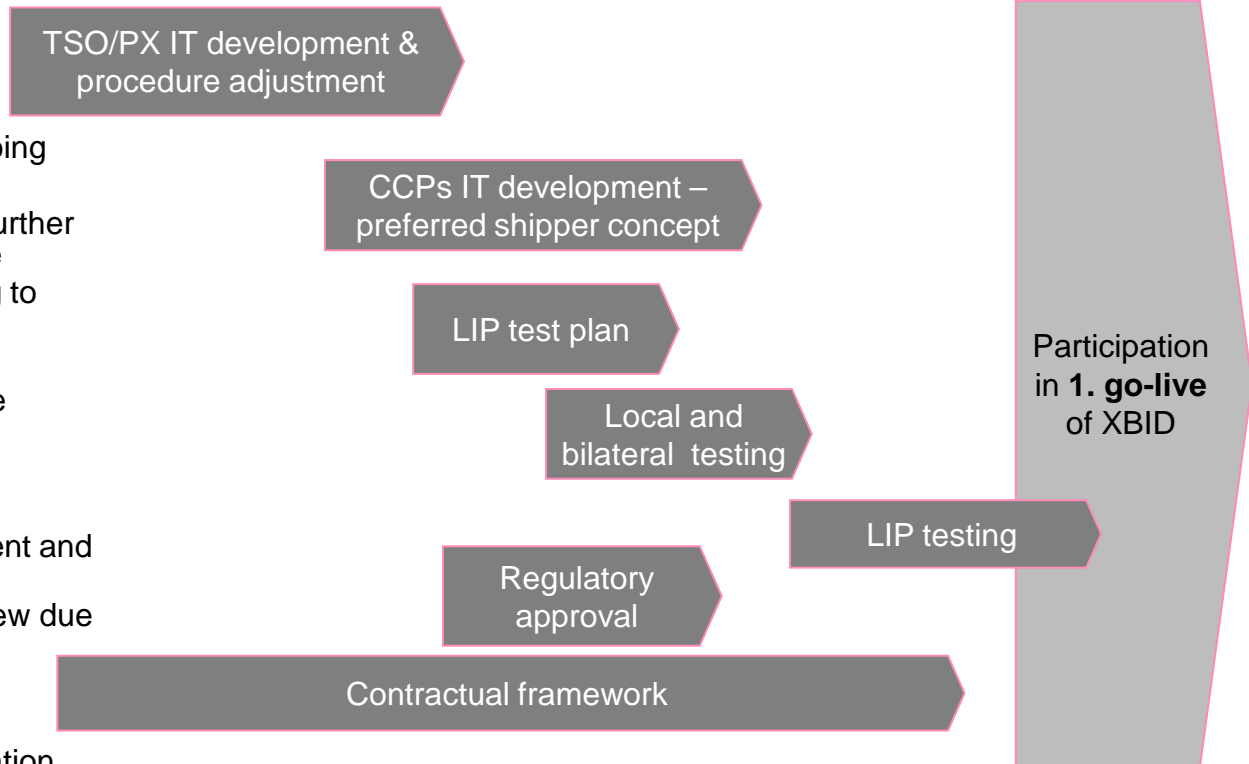


3. Current Status of the Project with Timeline

Status of local development and testing:



- **Pre connectivity**
 - connectivity tests against XBID ongoing
- **Local trading solutions development**
 - LTS solutions are in testing phase, further developments for CCPs/SA continue
- **The LIP test plan** elaboration according to standard introduced by XBID project
 - progressing
 - completion planned in Q4 2016 to be followed by bilateral and LIP testing.
- **Local procedures:**
 - Identified and specified
 - **Shipping and Nomination** arrangement and procedures under discussion.
- Nord Pool and EPEX **market rules** review due to XBID implementation:
 - Not Started
- **Contractual framework**
 - for local procedures under consideration



6. LIPs individual status and progress reports

a) LIP 1

b) LIP 13

c) LIP 2

d) LIP 3

e) LIP 4

f) LIP 5&11

g) LIP 6

h) LIP 8

i) LIP 9&12



Baltic LIP

User Group Meeting

Brussels: 8th of November 2016

Igor Honhoff

Content

1. **Status of the Baltic LIP Deliverables**
2. **Time Schedule for BaltLIP**
3. **Outstanding Issues**
4. **Questions/Answers**

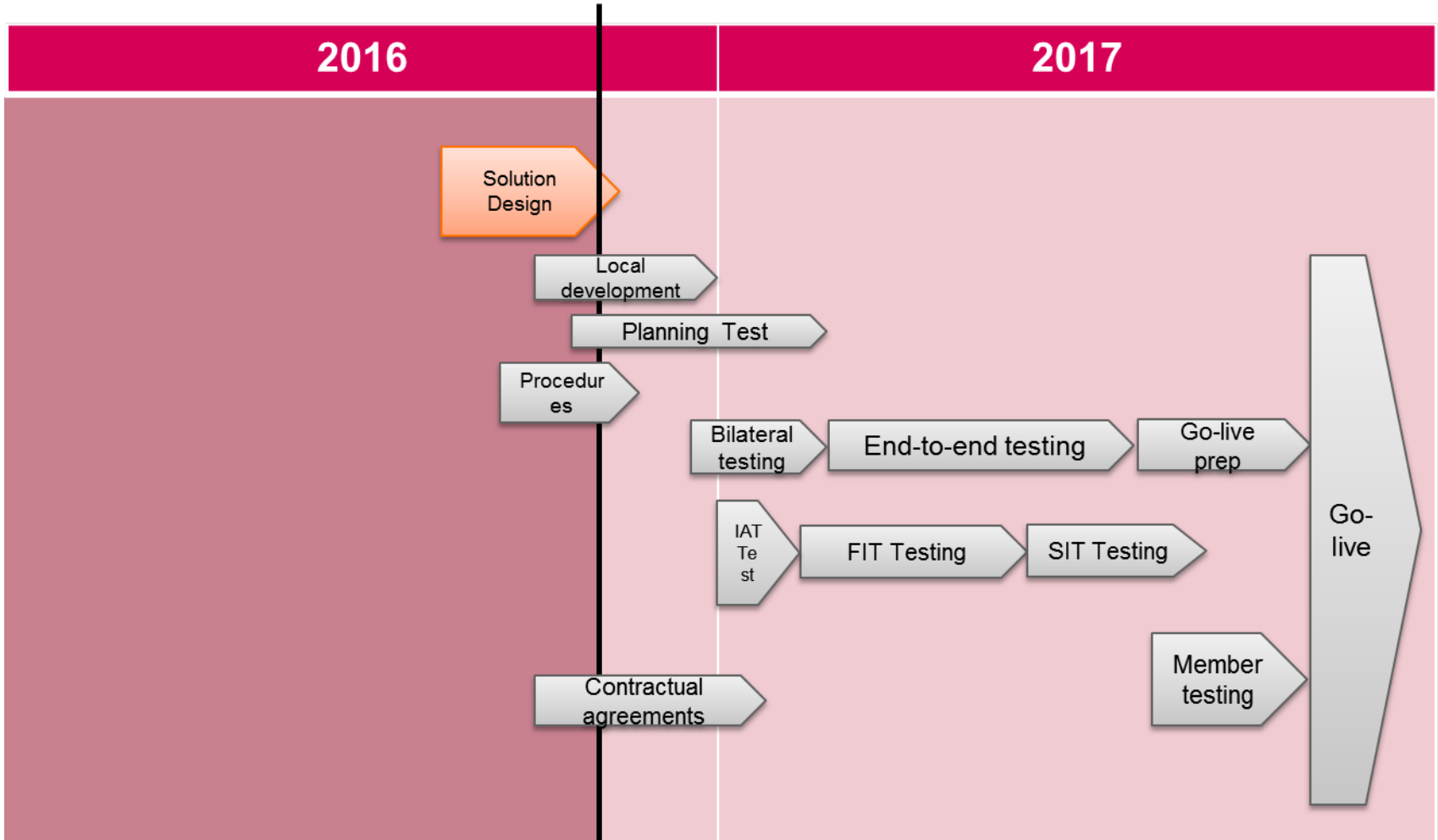
1. Status of the Baltic LIP Deliverables

- **Shipping agreements**
Shipping agreements to be put in place for each interconnector in scope
❖ **Started and ongoing discussion of the model**
- **Procedures**
Adaptations of XBID procedures and local procedures to be compatible with XBID
❖ **Identified and started to draft**
- **High Level architecture**
Including all the solutions from all parties involved in the intraday procedures and the sequence diagrams between these systems
✓ **Agreed**
✓ **Development ongoing**
- **Integrated XBID compliant Intraday solution**
Validated through the successful execution of end-to-end test cases
○ **Not started**
- **Intraday Operational Agreement**
A single agreement between all involved parties to go in to effect on go-live
○ **Not Started**

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. Time schedule for BaltLIP



3. Outstanding Issues

- **Agreement to be able join LIP testing**
 - **First draft presented on 18.10.**
- **Cost sharing**
 - **Includes in the agreement**

Agreement is under discussion, aimed to be ready by end of November.

4. Questions/Answers



6. LIPs individual status and progress reports

- a) LIP 1
- b) LIP 13
- c) LIP 2**
- d) LIP 3
- e) LIP 4
- f) LIP 5&11
- g) LIP 6
- h) LIP 8
- i) LIP 9&12



Kontek LIP

Katja Birr-Pedersen (Energinet.dk)



Overview Kontek LIP

Geographical scope

- HVDC cable (600 MW excl. losses) between Denmark (DK2) and Germany (DE/AT) Bidding-Zones

Existing ID solution in the area

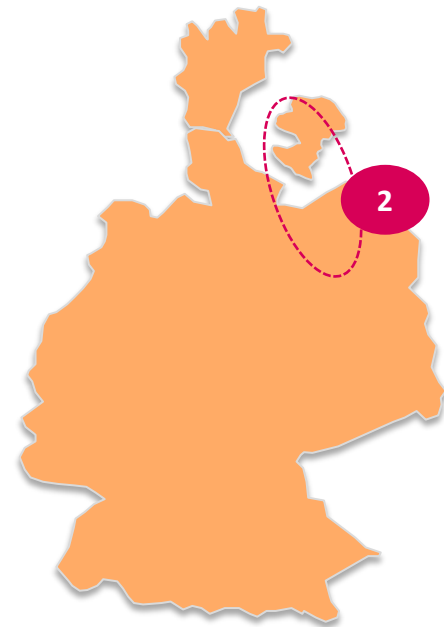
- Elbas: Operated by Nord Pool
 - Continuous market with Gate opening at 14:00 at D-1 and Gate closure at H-60min

Involved parties (TSO/PXs) in the project

- TSOs (50Hertz & Energinet.dk)
- PXs (Nord Pool & EPEX Spot)

Foreseen type of allocation

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





Foreseen changes

Systems

- Kontek intraday capacity is provided to XBID CMM instead of ELBAS and is thus accessible for whole NWE+ intraday market => only minor changes on TSO side
- Possibility to ship for more than one NEMO operating on both sides of the interconnector => competition between different intraday trading platforms
- NEMO systems need to be adjusted to be able to connect to XBID SOB => major changes

Rules and Contracts

- CCPs financial clearing & settlement agreement
- TSO – Shipping Agent (CCP/s) Agreement based on BRP contract
- Minor changes to market rules foreseen in light of XBID go-live

Regulatory approvals

- Regulatory approvals will only be relevant for local implementation. No market relevant changes (Elbas → XBID) foreseen (i.e. no consultation needed).



Timeplan towards go-live



PROJECT GOVERNANCE

Governance structure ✓

LIP detailed planning ✓

Agreed milestones ✓

Agreed deliverables ✓

Agreed responsibilities ✓

LIP cost sharing & cost recovery discussions ongoing on central XBID level

TSO/PX IT development & procedure adjustment

★ IAT successfully completed

CCPs IT development – preferred shipper concept

Testing preparation

- Local ✓
- LIP – work in progress
- XBID ✓

Testing

- Local
- LIP – start in Q1 2017
- End-to-end
- PX Member testing

Contract finalization: BRP contracts for CCP/SA + Financial clearing

Participation in 1. go-live of XBID

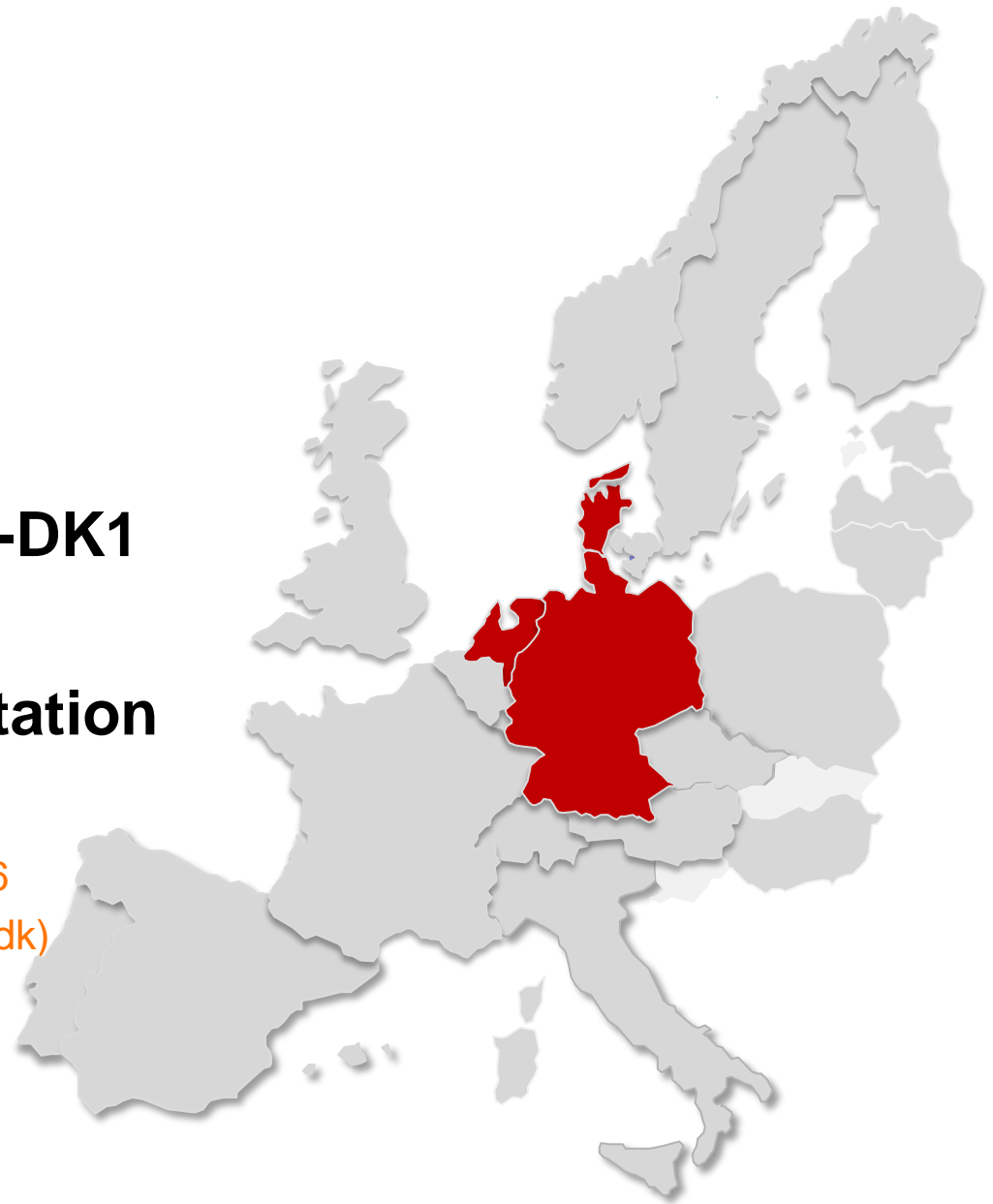
6. LIPs individual status and progress reports

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
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- e) LIP 4**
- f) LIP 5&11**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

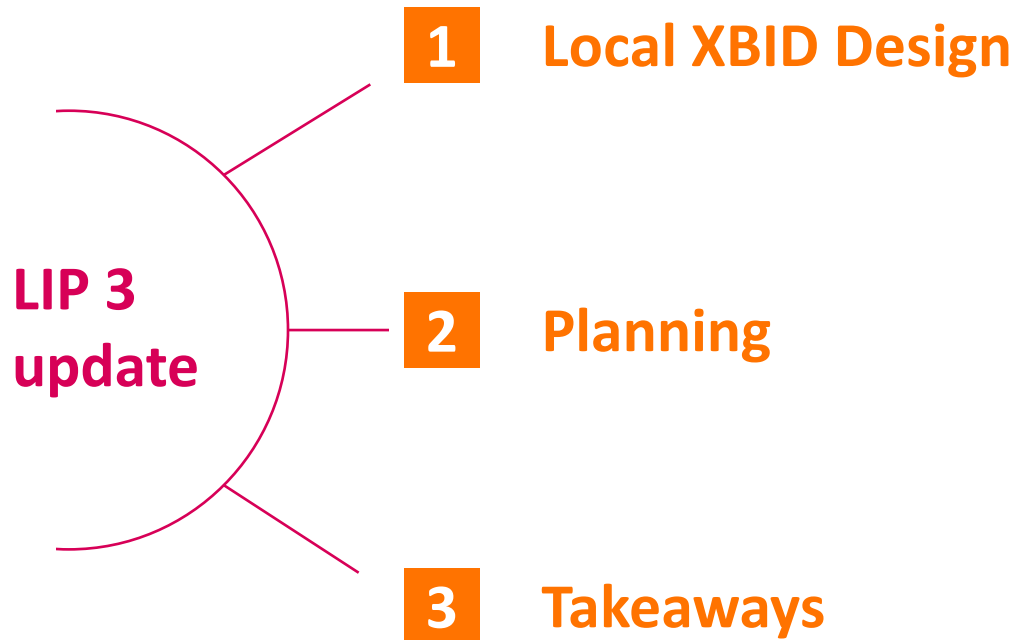
XBID LIP 3 – NL-DE-DK1

User Group Presentation

Brussels: 8th of November 2016
Katja Birr-Pedersen (Energinet.dk)



Agenda



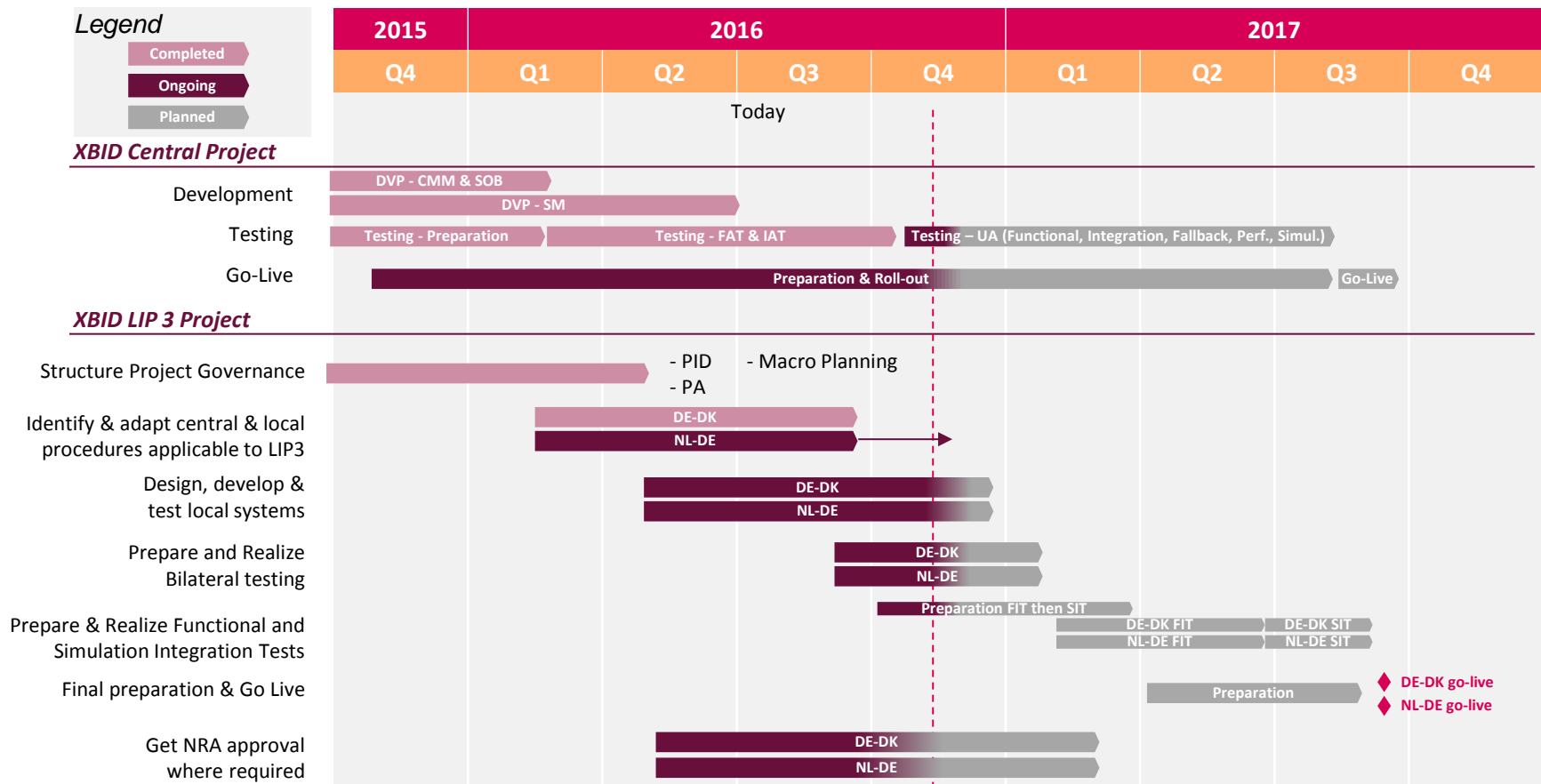
1. Local XBID Design – LIP 3 has defined working principles that enable to progress while awaiting final decisions on key design items

		Topic	Status
LIP3 DESIGN	Explicit capacity		<ul style="list-style-type: none"> • Consultation of NL-DE-DK NRAs is ongoing
	Shipping Arrangements		<ul style="list-style-type: none"> • Decision taken on LIP 3 borders
	Rollback		<ul style="list-style-type: none"> • LIP3 alignment on Rollback concept (= AS-IS procedures) • HLA, & procedures to be slightly adapted
	Fallback		<ul style="list-style-type: none"> • Consultation of NRAs is ongoing to seek endorsement

Conclusions:

- Decision on shipping orientation was taken by LIP 3 Steering Committee
- Feedback from NL-DE-DK NRAs is expected on Explicit capacity & the need of a Fallback

2. Planning – LIP3 Parties plan to go-live in Q3 2017



Conclusions:

- LIP3 Planning is closely monitored by the Working Group
- LIP3 Parties plan to go-live in Q3 2017, following the go-live approach to be defined in XBID

3. Takeaways – Key messages to User Group

1

Few Design decisions are still being processed (Explicit allocation, Rollback, Fallback, NL-DE lead interconnector etc.) and **tackled** with NL-DE-DK NRAs and TSOs

2

In current configuration, taking into account timely decision making on design topics, LIP 3 Parties plan to go-live in Q3 2017

3

The next important step is the start of the testing phase, locally and in collaboration with the central project

6. LIPs individual status and progress reports

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
- d) LIP 3**
- e) LIP 4**
- f) LIP 5&11**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**



LIP 4: NorNed User Group Meeting

Brussels: 8th of November 2016

Peter van Dorp

Content

- 1. Introduction of Project LIP04: NorNed**
- 2. High Level Project planning LIP04**
- 3. Current Status of the Project**
- 4. Challenges**
- 5. Questions/Answers**

1. Introduction

- **Project name: XBID NorNed LIP**
- **Participants:**
 1. Statnett
 2. TenneT BV
 3. EPEX/APX
 4. Nord Pool

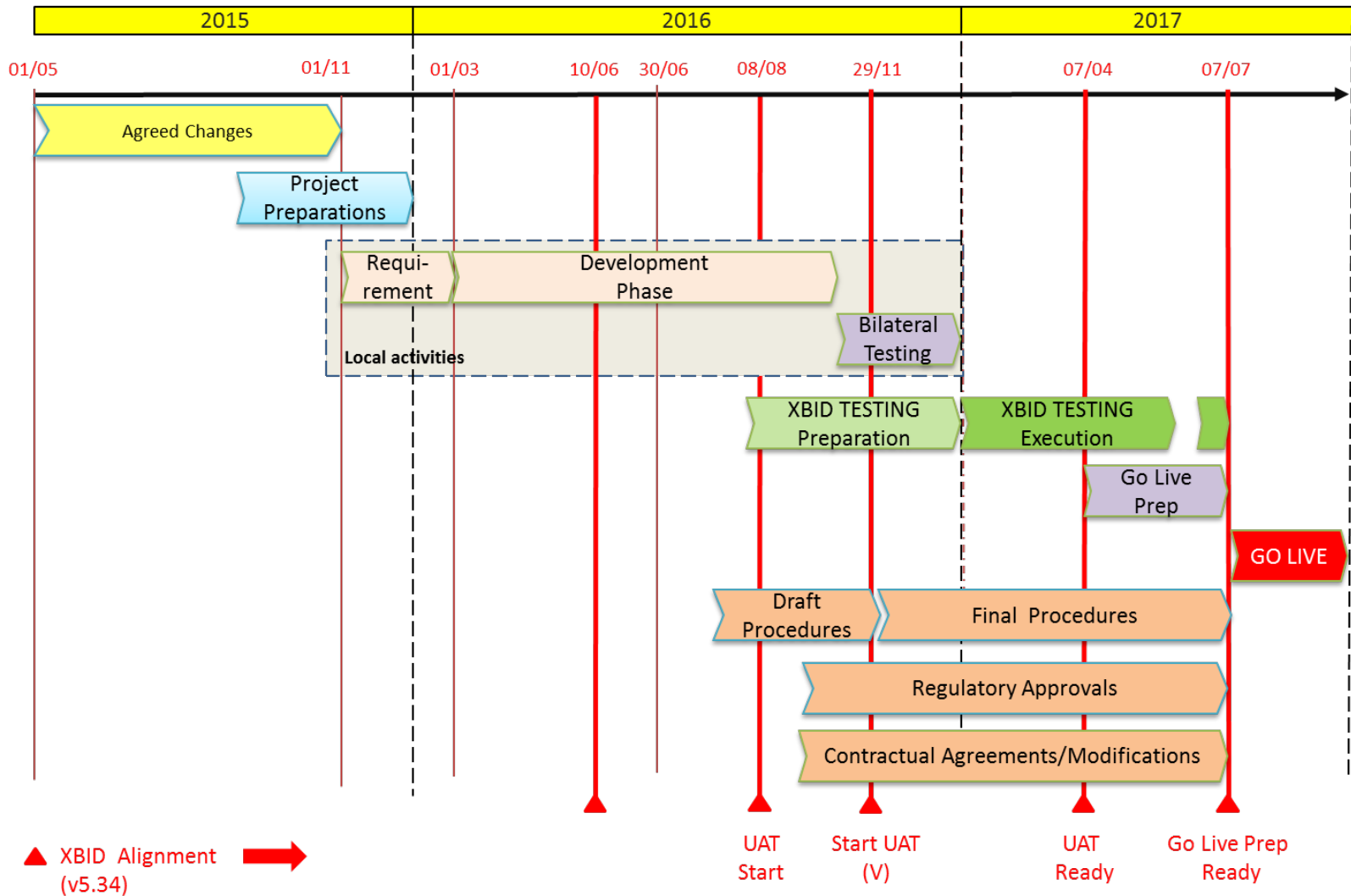
SPOC: Chris v.d. Beek (TenneT)

- **Objective:**

Implementing XBID for the interconnector NorNed in line with the XBID timeline. Ready before Go-Live in Q3/2017.



2. High Level Project Planning LIP 4



3. Current Status of the Project

- High Level Architecture (HLA) for XBID NorNed agreed amongst project partners. Base line for implementation joint and local activities, excluding changes from shipping arrangements.
- On local level LIP Project is subdivided in two parts:
 - A. Interfaces with XBID Platform (independent of LIP alignment). Development process in final stage at local level to be ready for IAT testing in XBID.
 - B. Process related modifications (dependent of alignment between LIP parties).
 - Parties have agreed on the scope of changes.
 - Elaboration and execution of changes in progress at the local level.
- Parties have implementation and development teams active and modifying IT systems (development and testing) on the local level.
- Parties have agreed on the Master Test Plan and the FIT test
- Parties have assessed required modifications in 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).

4. Challenges

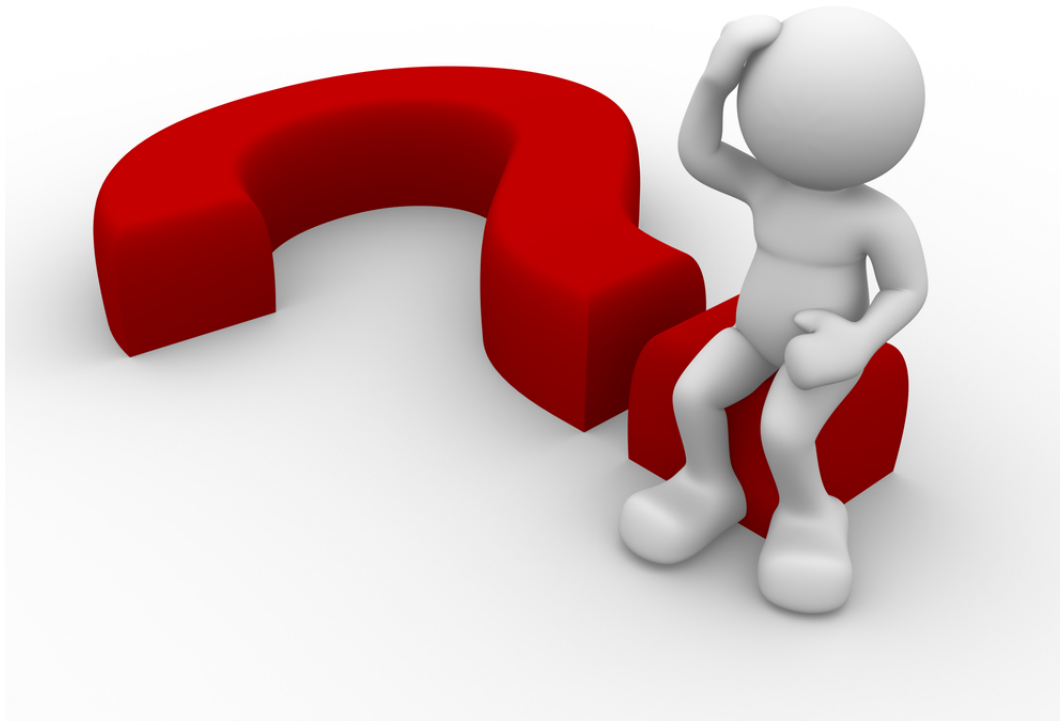
1. LIP testing

- 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.
- Readiness of this environment is expected in January 2017 allowing the LIPs to test end-to-end until go-live.

2. Shipping arrangements

- LIP 4 as other LIPs are facing uncertainty on the shipping arrangements.
- This is due to necessary development needed due to multiple NEMOs in each bidding zone.

5. Questions/Answers



6. LIPs individual status and progress reports

- a) LIP 1**
- b) LIP 13**
- c) LIP 2**
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- e) LIP 4**
- f) LIP 5&11**
- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**

Local Implementation Project #5 (+11)



Overview

8 Participating Members

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

* 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





Existing Intraday allocations:







- **LIP 5:** Implicit continuous allocation based on First Come First Served Principle, Obligatory usage, Implicit & explicit, Hourly Products (all borders), 30 Min (CH-FR, FR-DE), 15 Min (CH-DE, DE-AT)
- **LIP 11 (CH-AT):** Continuous explicit allocation based on First Come First Served Principle

Project Scope:

- Implicit and explicit* continuous allocation via XBID
 - * Explicit access has been confirmed by the respective NRAs for the border FR-DE

Deliverables

Finished 	on schedule low impact / risk 	deadline at risk medium impact / risk 	deadline highly at risk high impact / risk 	Trend
---	---	---	--	-------

Name	Status	Deadline
Formalization	TORs for working groups have been agreed.	
IT Concept	Technical specifications for local adaptation finalized.	 31/03/2016
Local System Adaptations	Adaptations of local systems is underway. Testing with XBID has started with strong participation of all relevant partners.	 31/12/2016
XBID Testing	Testing with XBID has started with strong participation of all relevant partners.	 30/09/2016
Contracts	Need for LIP-specific operational arrangements will be assessed when content of XBID IDOA is sufficiently clear.	 31/12/2016
LIP Testing	Preparation of test cases to be started. Execution of test cases.	 31/03/2017
LIP go live	Readiness for Go- Live	30/07/2017

Progress

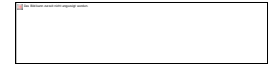
- Regulatory decision regarding explicit access has been taken for the border FR-DE.
- Adaptations of local systems are individually pursued by all parties and are in a mature state. LIP monitors the progress to ensure a coordinated approach for LIP testing.
- Connectivity tests against XBID have been performed successfully. Participation in next testing phase (UAT) as planned.
- No further discussions on budget, until LIP cost structure has been agreed in XBID.
- Clarification on the status of Switzerland received from NRAs:
Strong recommendation to involve EU. Clarification process will be continued.

6. LIPs individual status and progress reports

- a) LIP 1**
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- h) LIP 8**
- i) LIP 9&12**



EPEXSPOT



LIP 6 (BE-NL)

Tjitske Kramer

User Group Meeting

08 November 2016

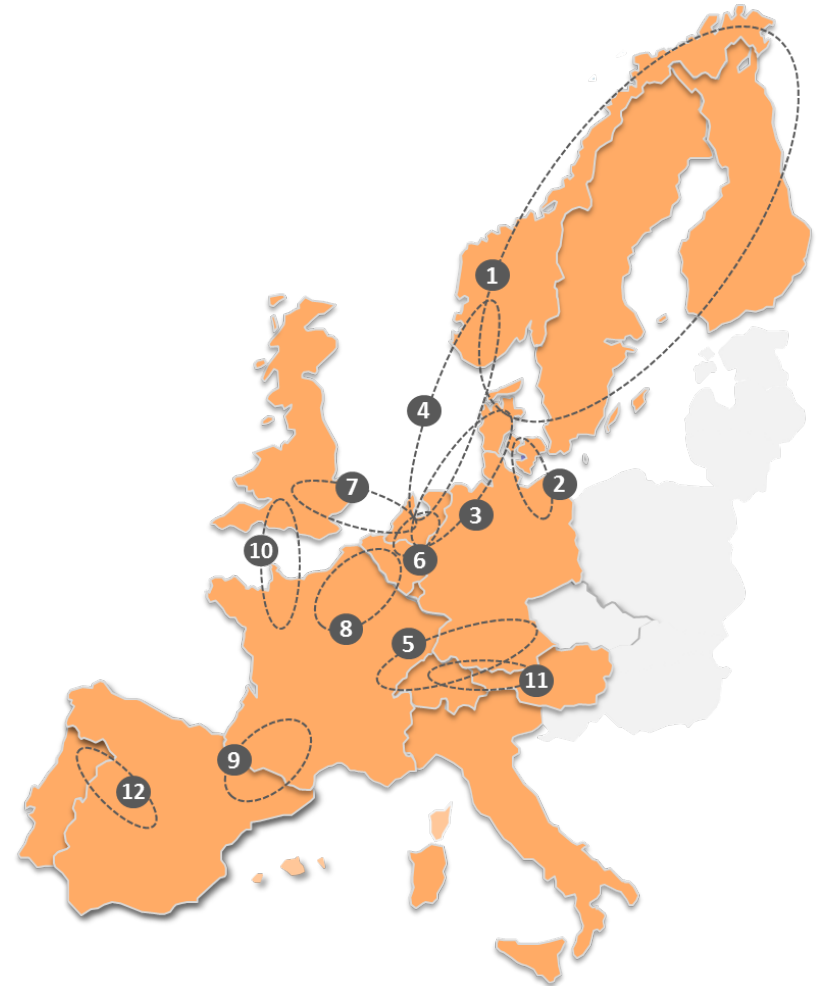
LIP 6 BE – NL: Overview

- Parties involved in LIP6 are :
 - TSOs : TenneT BV & ELIA,
 - NEMO : APX/EPEX*

Until mid October 2016 the LIP6 parties have focused on the implementation of the QuickWin for this bidding zone border. Go-Live was realized on 04/10/2016.

It means that for this border TSOs and EPEX have already changed to the DBAG systems. The parties will reuse as much as possible the material developed for the Quick Win implementation also for the implementation of the LIP. However, modifications are necessary. Especially with regards to shipping (interfacing with the shipping module, implementation of the preferred shipper solution, etc.) which impacts primarily the post-processing systems. Not all design details for the latter have been clarified amongst the parties, which likely impacts development work and hence planning.

* Nord Pool is also a designated NEMO for this LIP however at the moment has not requested to become an active party in this LIP



LIP 6 BE – NL: Status update

- Design for post-processing not finalized due to changes on shipping solution this summer. However development for the post-processing systems (nomination, clearing, settlement) has to start now in order to be ready for testing in Q1 2016.
- The still applicable test scenarios and test cases established for the QuickWin can be re-used with minor adaptations for the LIP 6 testing. Additional test cases especially with regards to the shipping module or new functionalities must still be added.
- All procedural changes (launched in the framework of the QuickWin) already take into account the common procedures for the XBID Solution. Some of the local procedures will be replaced by central procedures.
- Regulatory and contractual work is ongoing.

LIP 6 BE – NL: LTS update

- LTS implementation respects an incremental approach: Current version in testing is IAT and UAT ready (and as such handles only global products) whereas upcoming releases will include local functionality.
- IAT with XBID Solution was performed and completed in August & September 2016.
- UAT phase started (UAT 3 will start on 10/01/16)
- The next LTS releases are planned to be delivered in December 2016 and February 2017 to comply with XBID planning.
- For the users of the M7 platform today: the new LTS (M7 6.0): although this new version needs to work with a complete new backend (the central XBID Solution) the switch from 4.2 to 6.0 will be easier than the one from 3.8 to 4.2
- Market participants will have the possibility to perform testing activities on this new version, details will be communicated in due time.

- Late decision taking and consequently late design of shipping arrangements
 - The final shipping solution compliant with CACM regulation and with the concept of multiple NEMO's, to be implemented for the LIP6, still has to be taken officially, not all design matters have been clarified amongst the parties.
 - This results in an increased risk of delaying the implementation and the testing of the systems performing the post-processes.

LIP 6 BE – NL: Planning

- LIP testing to be started mid-February
 - Systems for post-processing might be included later (without impacting go-live date)

- GO-Live window for LIPS will start Q3 2017: LIP 6 is targeted to go live along with XBID Solution

6. LIPs individual status and progress reports

- a) LIP 1**
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- g) LIP 6**
- h) LIP 8**
- i) LIP 9&12**



Belgium – France Bidding Zone Border

XBID Local Implementation Project 8
on ID market
Viviane Illegems

Regional Overview & Roadmap

Country	TSO	Designated NEMOs
Belgium	Elia	APX-Belpex-EPEX Nord Pool
France	RTE	

Quick win step 1 – March 2016 (APX-Belpex-EPEX/Elia/RTE)

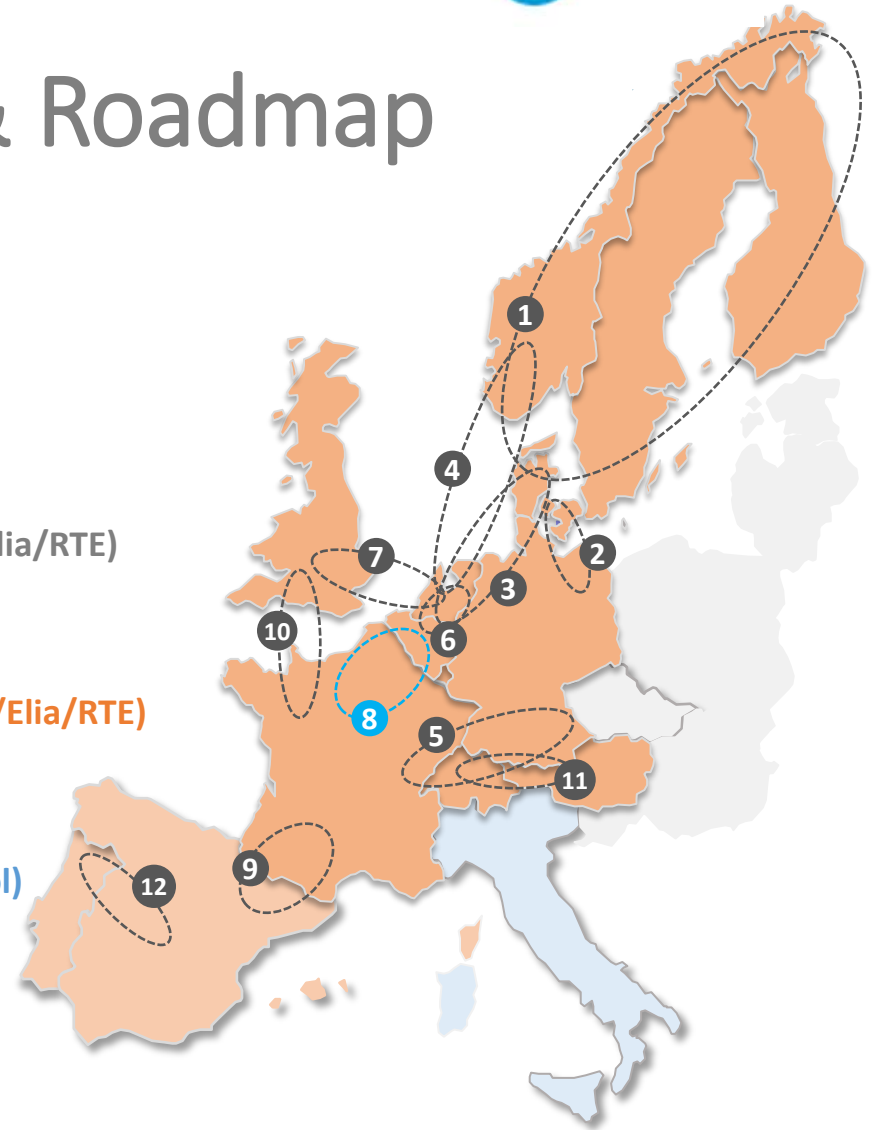
FCFS explicit access (ICS)

Quick win-step 2 – October 2016 (APX-Belpex-EPEX/Elia/RTE)

FCFS Implicit Allocation (ICS+M7)

Target / LIP 8 (APX-Belpex-EPEX/Elia/RTE/Nord Pool)

FCFS Implicit Allocation (XBID)



Scale of impact LIP

Analysis	Status	Content / changes
Technical	Ongoing (expected: medium)	Local Trading Solution Capacity Calculation Allocation & Scheduling Systems Preferred shipping
Operational	Ongoing (minor/medium – major modifications during QWs)	Implementation & internal procedures
Contractual	Ongoing (expected: minor/medium – major modifications during QWs)	Participation Agreements & Operational Agreement restricted to purely LIP-level item
Regulatory	Ongoing (expected: minor/medium)	Adaptation of Market rules Adaptation of IFB rules (only if explicit fallback is maintained)

Attention points

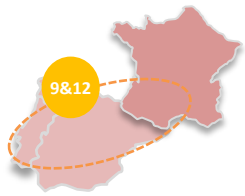
Challenges	Risks
<p>Detailed participation to LIP testing and testing with Market Parties has yet to be defined.</p> <p>Balance resources between centralized XBID project and LIPs. Avoid duplicating procedures and legal arrangement principles in LIP and central Xbid project</p> <p>Adaptation of governance structure to the extension of the number of parties in the LIP – all designated NEMOs became full member</p>	<p>Timeline management.</p> <p>Late confirmation of selection of Shipping solution (preferred shipping) and consequently late design of shipping solution delaying development and testing of post-processing systems.</p> <p>Clear communication before the go-live.</p>

High level Planning

- LIP testing will start in Mid February 2017
 - Systems for post-processing might be included later (without impacting go-live date)
- GO-Live window for LIPs will start Q3 2017: LIP 8 is targeted to go live along with XBID Solution

6. LIPs individual status and progress reports

- a) LIP 1**
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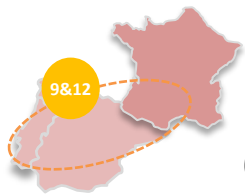


LIP 9 &12: ES-FR & ES-PT

Brussels: 8th of November 2016

Juan Fco. Pérez (OMIE)

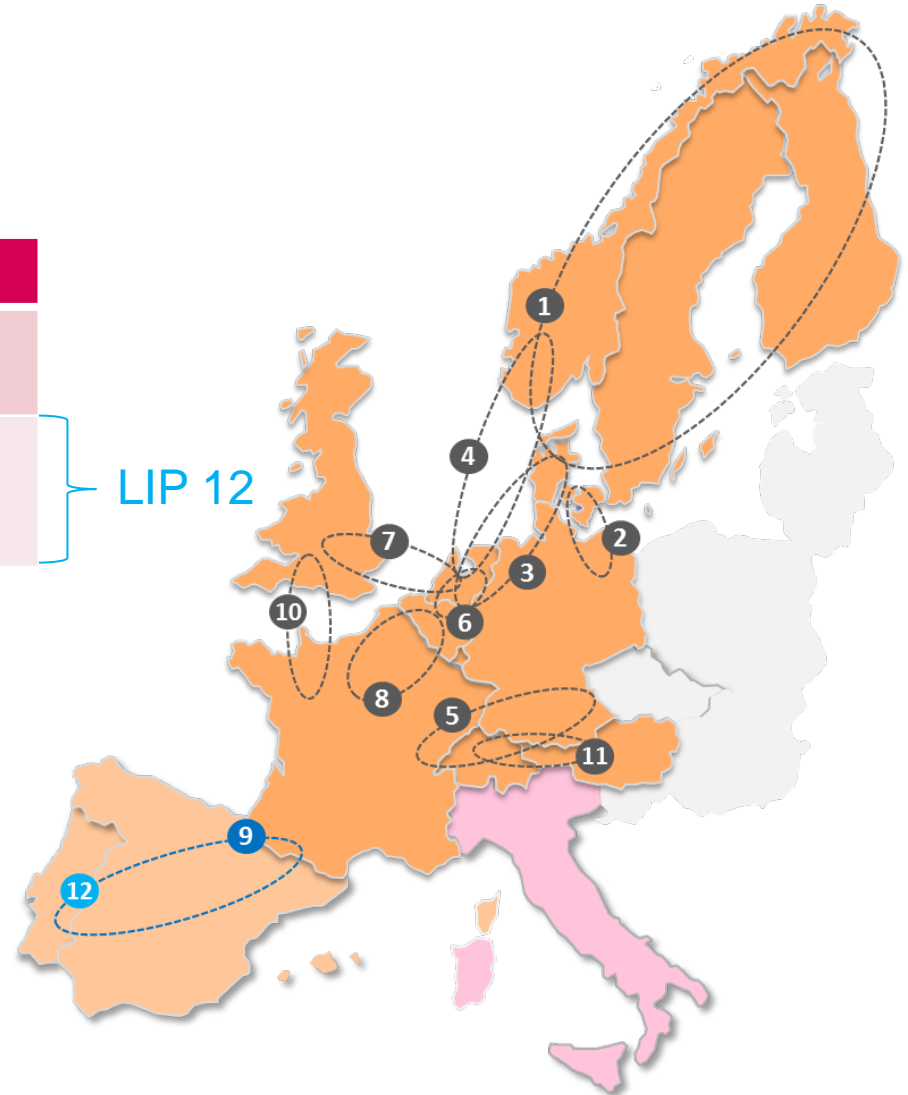
Javier Barrantes (REE)



Overview

6 members :

	Country	TSO	NEMO
LIP 9	France	RTE	EPEX SPOT Nord Pool
	Spain	REE	
	Portugal	REN	OMIE
			LIP 12

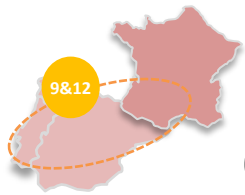


Existing Intra-Day capacity allocation mechanism:

- **FR-ES** : 2 Explicit Auctions carried out by REE on behalf of RTE and REE.
- **PT-ES** : 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



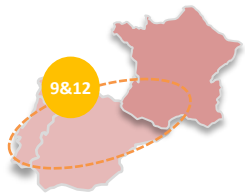
Contractual Framework

- Current Contractual Status of the members:
 - EPEX, NP, OMIE and RTE are *full members*.
 - REN is part of the *Accession Stream*.
 - REE is *observer since July 2014* of the XBID project and have requested to be full member of the project.
- On 29/09/2016 IDSC set the contractual requirements for the REN and REE in order to be able to start LIP testing (Entry Criteria).

Foreseen changes

Rules and Contracts

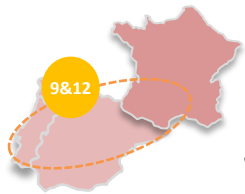
- Shipping Agreement for the French and Spanish interconnection is under discussion and represents the major challenge for going-live of this border.
- The adaptation of the Iberian Market Legislation is now under discussion among the related parties for XBID go-live



Foreseen changes

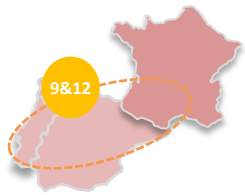
LIP Systems

- The available capacity on the different borders is provided directly to XBID CMM => only minor changes on TSOs side on the addressee and the format of the files
- Different LTSs operating on each Market Area
 - FR => Different intraday trading platforms (EPEX & NP)
 - ES, PT => OMIE intraday trading platform
- LTS's from the PXs involved in the LIP are mostly developed and have successfully passed the two first test phases planned for the XBID:
 - Integration Acceptance Test (IAT) for PXs (SOB & SM)
 - Pre-User Acceptance Test
 - User Acceptance Tests (UAT) are now ongoing
- From TSOs perspective
 - RTE has successfully passed the IAT for TSOs (CMM & SM) and the Pre-UAT in the same way than PXs.
 - REE and REN will participate in the Extension IAT TSO as part of LIP testing entry criteria.



Scale of impact

Aspect	Status	Content / changes
Technical and Operational	Ongoing (Expected: minor)	Local Trading Solution (PXs) Scheduling System adjustments + new information exchanges (TSOs)
Contractual	Ongoing (Expected: High)	XBID IDOA (new) SWE IDOA (if needed) SLA DBAG (if needed) RTE-REE Coop. Agreement (update) Settlement link agreement OMIE-ECC (update) Settlement link agreement OMIE-NP (new) Testing Agreement for REE and REN
Regulatory	Ongoing (Expected: Medium)	<u>High Level regulation</u> Spanish CNMC Circular 2/2014 Annex of Spanish Royal Decree 2351/2004 (solution of technical constraints) Portuguese Regulation (RARI - Regulamento de Acesso às Redes e Interligações) French High Level Regulation <u>Other regulation</u> Spanish Operational Procedures 3.1 FR-ES short-term allocation rules (IFE Rules) French I/E Rules Iberian Day Ahead and Intraday Market Rules Manual de Procedimentos da Gestão Global do Sistema)

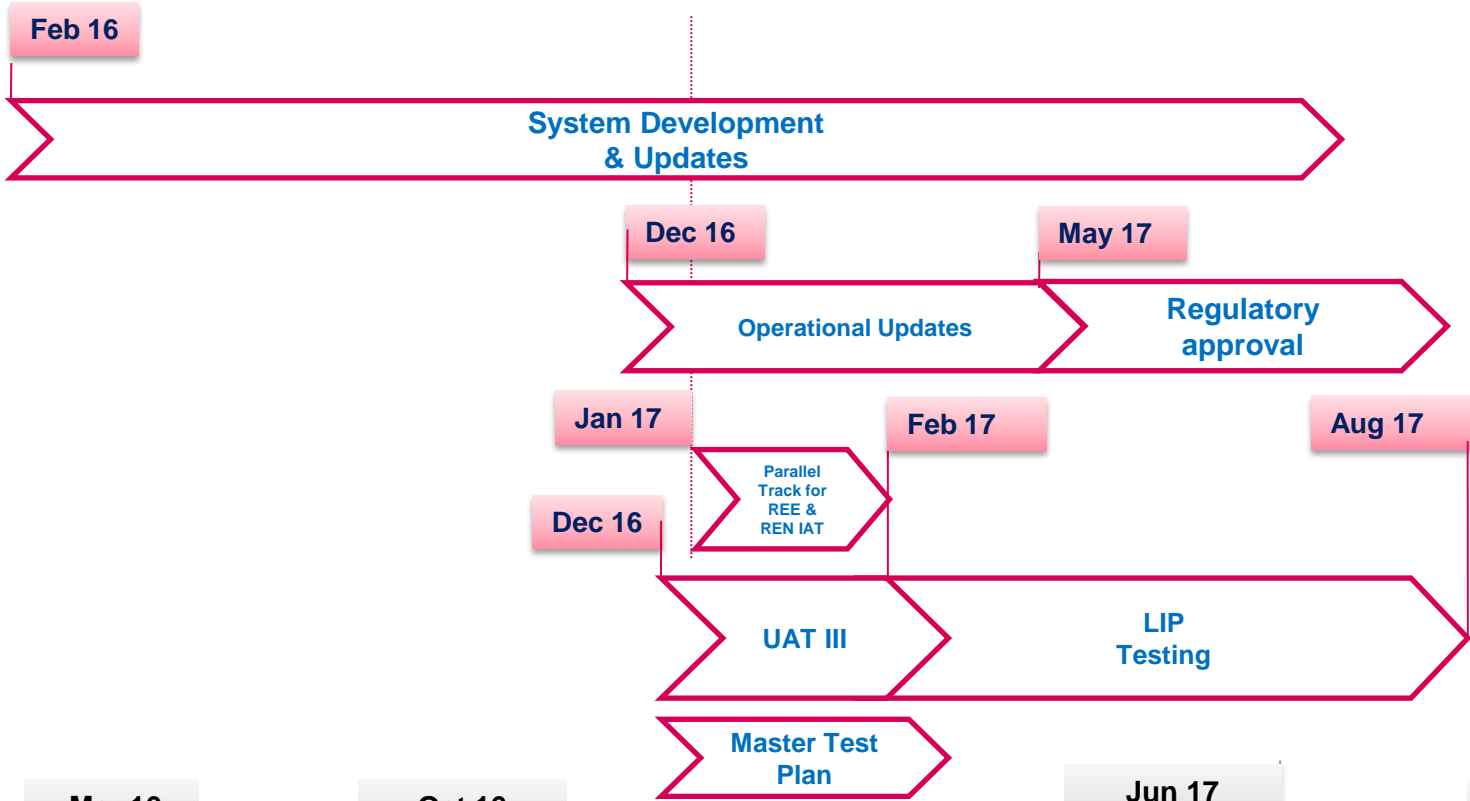


LIP 9&12 Highlevel Planning Timeline (TBD)

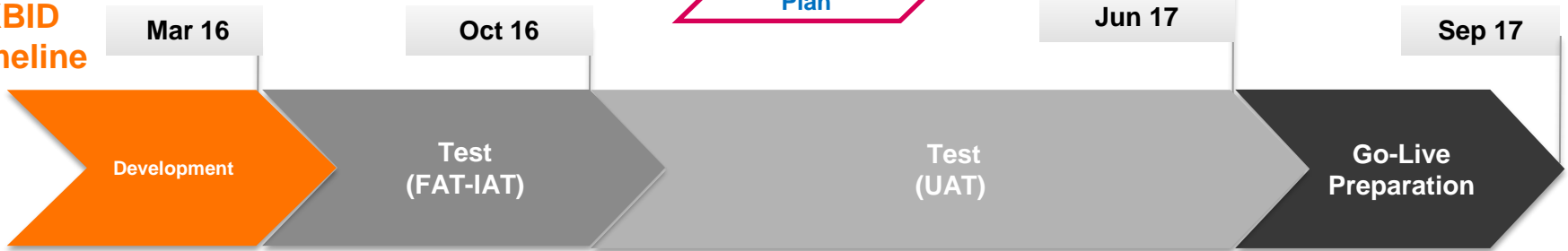
2016

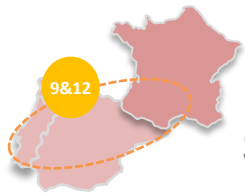
2017

LIP
Timeline



XBID
Timeline





Summary & Key Points

Challenges	Risks
<ul style="list-style-type: none">- Shipping Arrangements for SP FR border- IT system adaptations affecting the tests	<ul style="list-style-type: none">- Regulatory approvals- Contractual framework

Agenda

- 2. Project status overview**
- 3. ID products handled by XBID**
- 4. Recap on quick wins step 2 for BE-FR and BE-NL**
- 5. LIPs – general status overview**
- 6. LIPs individual status and progress reports**
- 7. Closing remarks, reflections on the day**

Thank you very much for your attention!

A safe journey home.....