10th MESC
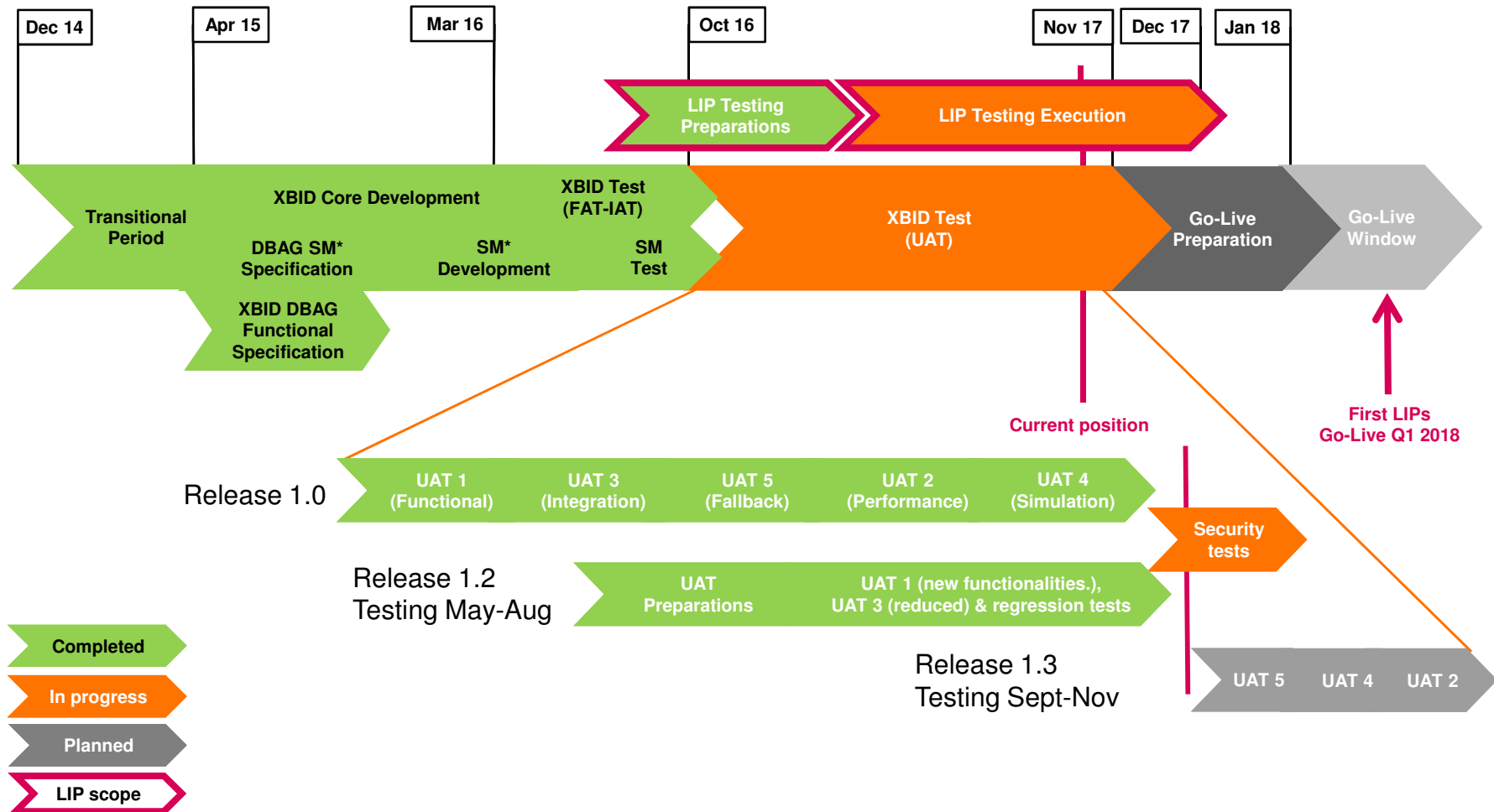
XBID Project Update

6th September 2017

Agenda
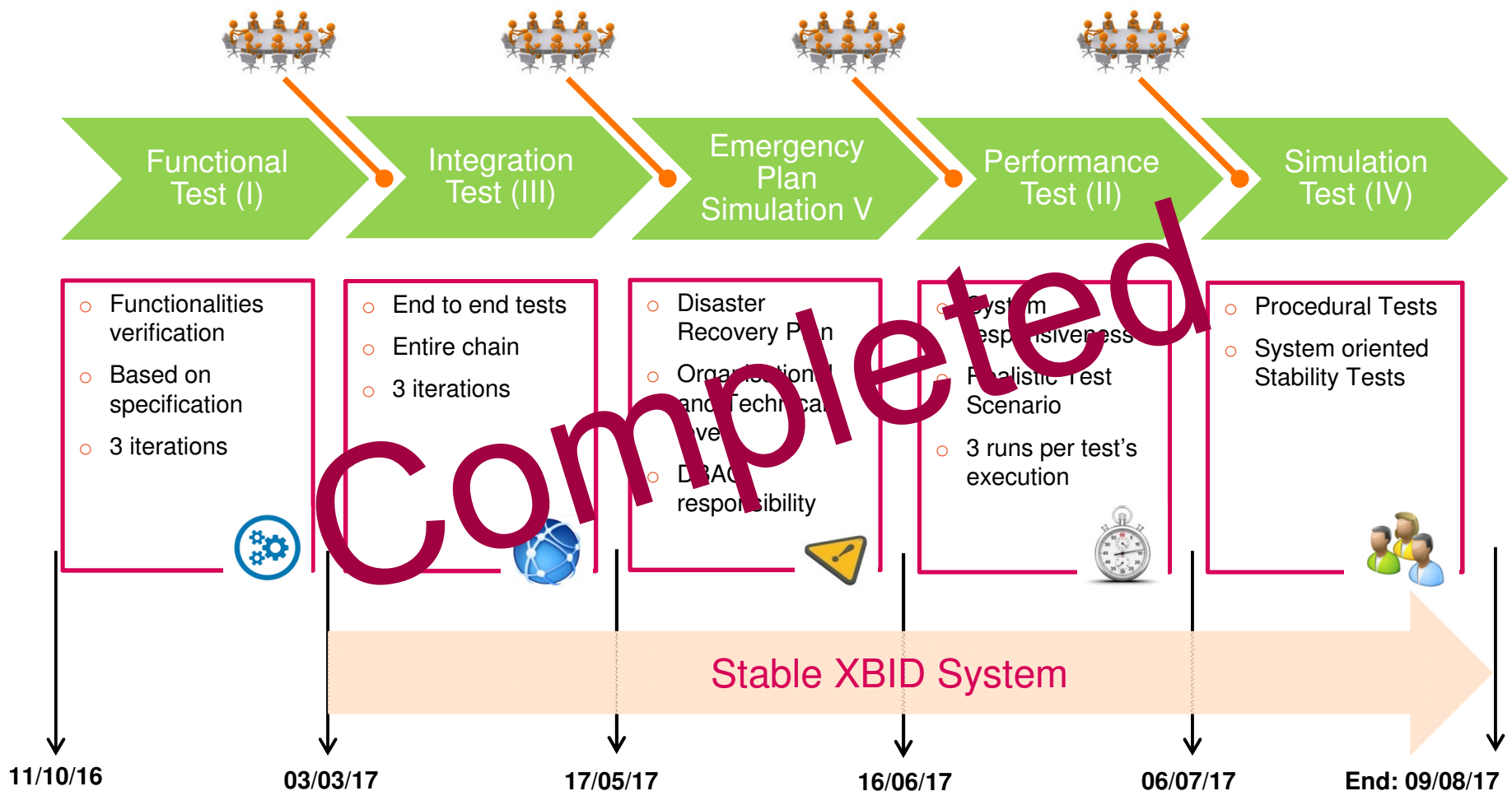
1. Project Timeline
2. Project Progress
   - Achievements
   - Challenges
3. Local Implementation Projects
4. Gate Closure Time
5. Summary

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

XBID

Dec 14   Apr 15   Mar 16   Oct 16   Nov 17   Dec 17   Jan 18

LIP Testing Preparations

LIP Testing Execution

Transitional Period

XBID Core Development

XBID Test (FAT-IAT)

DBAG SM* Specification

SM* Development

SM Test

XBID DBAG Functional Specification

XBID Test (UAT)

Go-Live Preparation

Go-Live Window

Current position

First LIPs Go-Live Q1 2018

Release 1.0

| UAT 1 (Functional) | UAT 3 (Integration) | UAT 5 (Fallback) | UAT 2 (Performance) | UAT 4 (Simulation) |

Security tests

Release 1.2 Testing May-Aug

UAT Preparations   UAT 1 (new functionalities.), UAT 3 (reduced) & regression tests

Release 1.3 Testing Sept-Nov

UAT 5   UAT 4   UAT 2

Completed

In progress

Planned

LIP scope

*SM – Shipping Module

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1. Plan detailing User Acceptance Test (UAT) phases for R1.0

Functional Test (I)	Integration Test (III)	Emergency Plan Simulation V	Performance Test (II)	Simulation Test (IV)
o Functionalities verification o Based on specification o 3 iterations	o End to end tests o Entire chain o 3 iterations	o Disaster Recovery Plan o Organizational and Technical level o DRAC responsibility	o System responsiveness o Realistic Test Scenario o 3 runs per test's execution	o Procedural Tests o System oriented Stability Tests

Completed

Stable XBID System

| 11/10/16 | 03/03/17 | 17/05/17 | 16/06/17 | 06/07/17 | End: 09/08/17 |

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2. Project Progress – Key achievements

- **Technical**
  - **User Acceptance Testing (UAT) for Release 1.0 has been successfully completed following 10 months of tests involving around 2200 test cases and 190 test scenarios – this represents a very significant project milestone**
  - **Daylight Saving Tests (DST)** are being undertaken
  - **An independent service provider (PWC) is undertaking additional security tests** on XBID
  - The **test plan for Release 1.2/1.3** is agreed and is scheduled from September to November
  - Agreement has been reached with DBAG to run a **Realistic Test Scenario 3 (RTS3)** with a view to ensuring that service boundaries are fit for purpose for the go-live
  - Selection of a common **Energy Identification Codes (EIC) configuration has been achieved**
- **Operational readiness**
  - The **operational procedures have been completed** and **the critical business processes are being finalized** with DBAG
  - **Go live activities are agreed** *(assumption that all parties Go-Live at the same time)* and tracking is in place through the Go-live coordinator
- **Contractual**
  - **The Maintenance contract is agreed and the signature process will commence shortly**
- **Costs**
  - **The project is currently within budget but is using foreseen contingencies**
- **Accession Stream**
  - **Knowledge transfer phase completed and 2 Accession LIPs plan to be part of the first XBID go-live** (Baltics and Iberian Peninsula)

2. Project Progress – Challenges
XBID continues to be a very complex and demanding project to deliver

- **Technical**
  - **Understanding the implications of the Energy Identification Codes (EIC) configuration on MNA within Day Ahead**
  - **Selecting and confirming the products for go-live**
    - Using performance testing to develop the route map for delivering all products. Aim is to have at Go-live, as a minimum, what is currently available in the market.

    => Further communications on this will be made before go-live. Production-like testing with market participants will also be organized.
  - **Managing the issues identified in LIP preparation and testing**
    - Issues were identified which required Change Requests which has led to the need for Release 1.3

- **Contractual**
  - **Finalizing the Intraday Operational Agreement (IDOA). Whilst progress has been made an escalation has been made to the NRAs regarding liabilities linked to the Shipping Module.**
    - Achieving completion of the IDOA is on the project critical path and it needs to be sent to NRAs for review by mid-October
  - **Finalizing the All Nemo Intra-Day Operational Agreement (ANIDOA) and TSO Co-operation Agreement for Single Intraday Coupling (TCID) in parallel with IDOA**
    - The ANIDOA agreement is based on the MCO Plan. 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**
    - Cost sharing under APCA continues to be used for the period from Feb 2017 until go-live. The resettlement process based on the CACM sharing key is currently being designed.
    - Further clarifications from the NRAs in respect of cost sharing and LIPs is expected end September 2017
  - **Project expenditure and forecast to end March 2018 is very close to budget**
  - **Cost of DBAG services particularly with regards to Change Requests (CRs)**
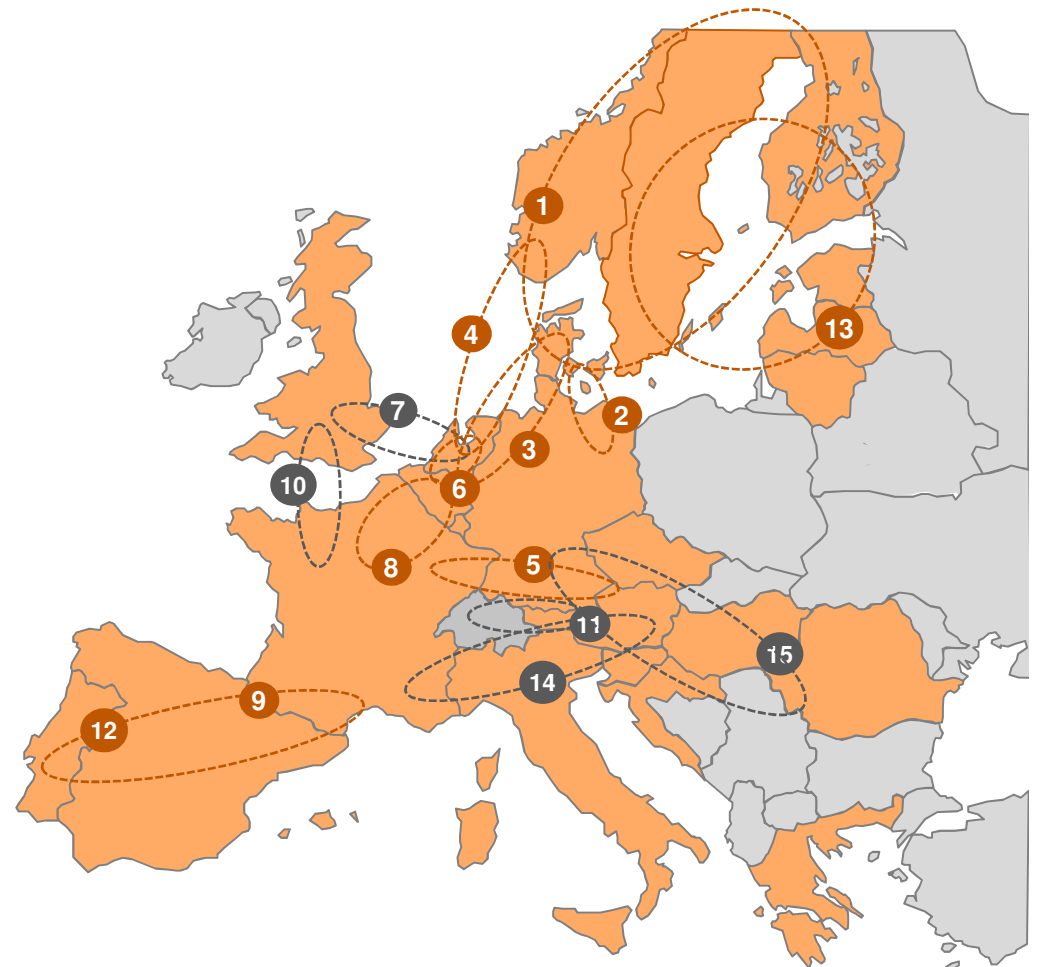   - Project Parties and NRAs remain concerned about the DBAG mark-up

3. 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, EPEX, Nord Pool, Tennet DE
6	NL/BE	Elia, TenneT NL, EPEX, Nord Pool
8	FR/BE	RTE, Elia, EPEX, Nord Pool
9 12	FR/ES& ES/PT	RTE, EPEX, OMIE, REE, REN, Nord Pool
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, Swissgrid, Terna, BSP, EPEX, EXAA, GME, LAGIE, Nord Pool
15	CZ-DE, CZ-AT, AT-HU, HU-RO, HU-HR	50Hertz, APG, CROPEX, ČEPS, EPEX SPOT, EXAA, HUPX, HOPS, MAVIR, Nord Pool, OPCOM, OTE, TenneT and Transelectrica.

NRAs have confirmed that explicit access will only be given on the DE/FR border. It will not be given on any other borders in the first go-live

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3. Status Overview – LIPs part of 1st go-live

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	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟨	🟨	🟨	⬜	🟩	🟩
2	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
3	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
4	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
5	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟨	🟨	⬜	🟩	🟩
6	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
8	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
9 12	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩
13	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩	🟩	🟩	🟩	⬜	🟩	🟩

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

Legend

Grey	Not applicable
Red	Not started
Yellow	Ongoing
Green	Ready

4. ID cross-zonal gate closure time – amended proposal

- All TSOs have confirmed, in the amendment request, to apply Article 2 of the CACM Regulation to define the IDCZGCT
  - IDCZGCT is the point in time where cross-zonal capacity allocation is no longer permitted for a given MTU
- All NRAs have requested to amend proposal for gate closure as follows:
  - To set, within the proposal, a IDCZGCT per BZB at most one hour before the start of the relevant MTU. The IDCZGCT per BZB should be set taking into account the requirements of article 59(2) and 59(3) of the CACM Regulation and therefore should be set closer than one hour to the start of the relevant MTU where appropriate
- All TSOs amended proposal: Gate closure time shall be 60 minutes before the start of the relevant intraday market time unit, with the exemption of the bidding zone border Estonia-Finland (EE-FI) where it shall be 30 minutes

5. Summary

- **Substantive progress** has been made in delivering the XBID project - the successful completion of User Acceptance Testing (UAT) for Release 1.0 is a major milestone achieved

- Technical readiness of XBID is planned to be achieved by the end of 2017 with the completion of Release 1.2/1.3 UAT. The first XBID LIPs are due to **go-live by the end of Q1 2018**.

- The **Accession Stream continues with all round positive collaboration** and with some Accession LIPs (Baltic and Iberian Peninsula) being part of the first go-live

- **The project is complex** and proves to be continually challenging.
  - Completion of the IDOA and ANIDOA is proving very complex and is on the critical path of the project. One issue regarding the liability linked to the shipping module has been escalated to the NRAs.
  - NRAs have provided some clarity on cost sharing and further clarifications are due to be received by the end September 2017

- **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**