

Single day-ahead and intraday coupling

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Single day-ahead coupling

- Implicit auctions (one daily)
 - Euphemia algorithm

Single intraday coupling

- Continuous trading
 - XBID algorithm
- Later complemented with implicit auctions
 - Euphemia algorithm

History of DA coupling

1993-2000
 • Nordic Price coupling

2006
 • Trilateral Market Coupling, integrating the Netherlands, Belgium and France

2007
 • MIBEL market started coupling Spain and Portugal

2009
 • Czech and Slovak Market coupling started

2012
 • 3M MC project integrating the CEE region markets of the Czech Republic, Slovakia and Hungary

2011
 • NorNed cable is integrated into the CWE-Nordic ITVC
 • Launch of BritNed coupling linking the GB to CWE
 • Italy and Slovenia Market coupling started

2010
 • CWE integrating the NL, BE, FR with DE
 • Interim Tight Volume Coupling (ITVC) between the CWE region and the Nordic – Baltic region

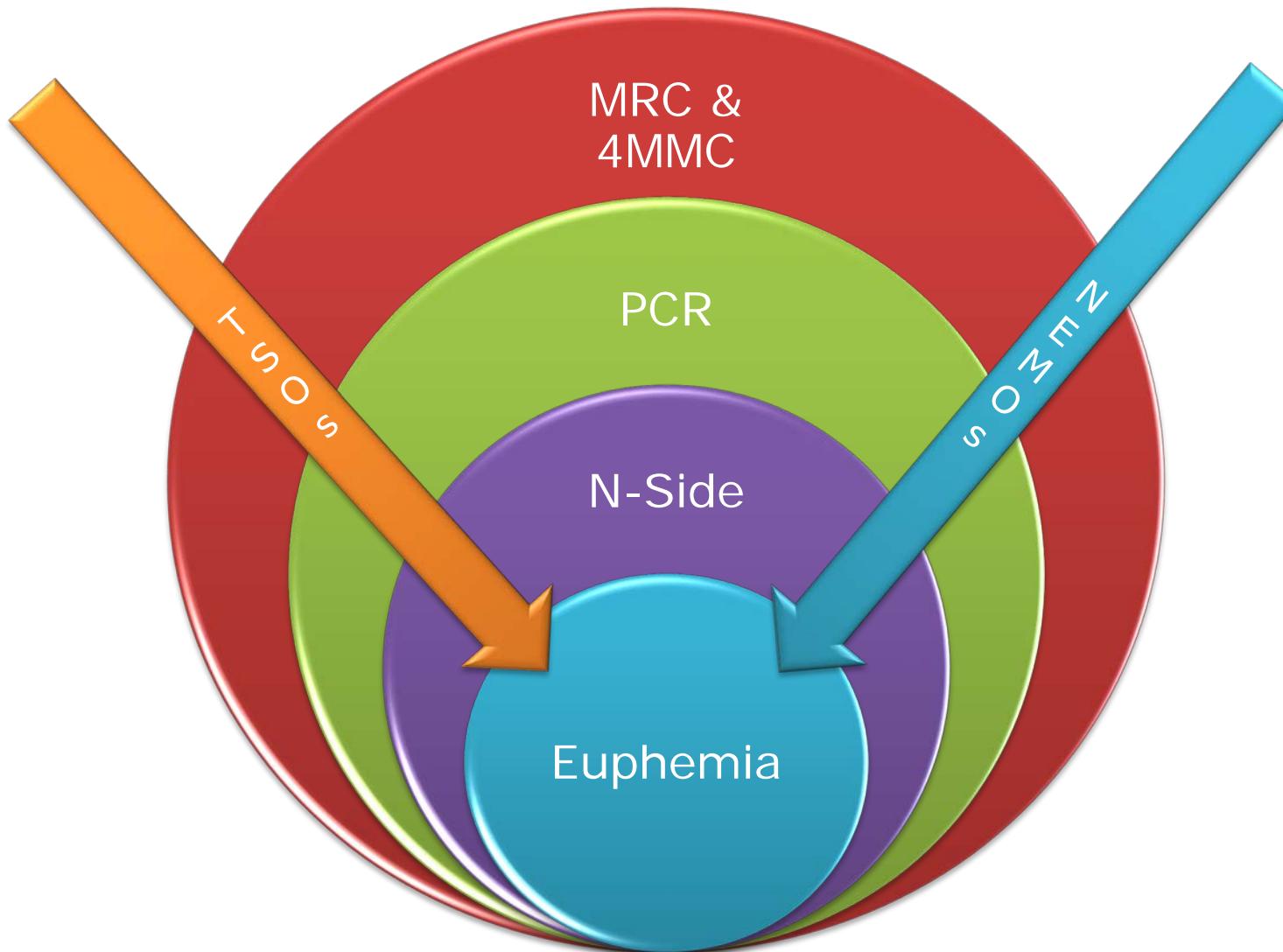
2014
 • Common synchronised operation of NWE and SWE regions using PCR solution
 • Full Coupling of NWE and SWE ->coupling from Portugal to Finland
 • 4M MC project (adding Romania)

2015
 • The IT-AT, IT-FR and IT-SI borders coupled with MRC,
 • Launch of the CWE Flow-Based market coupling

2016
 • Launch of market coupling of the AT-SI border with MRC

2018
 • Joining of the SI-CR market coupling to MRC
 • Successful IE-GB market through MRC

Single day-ahead market coupling



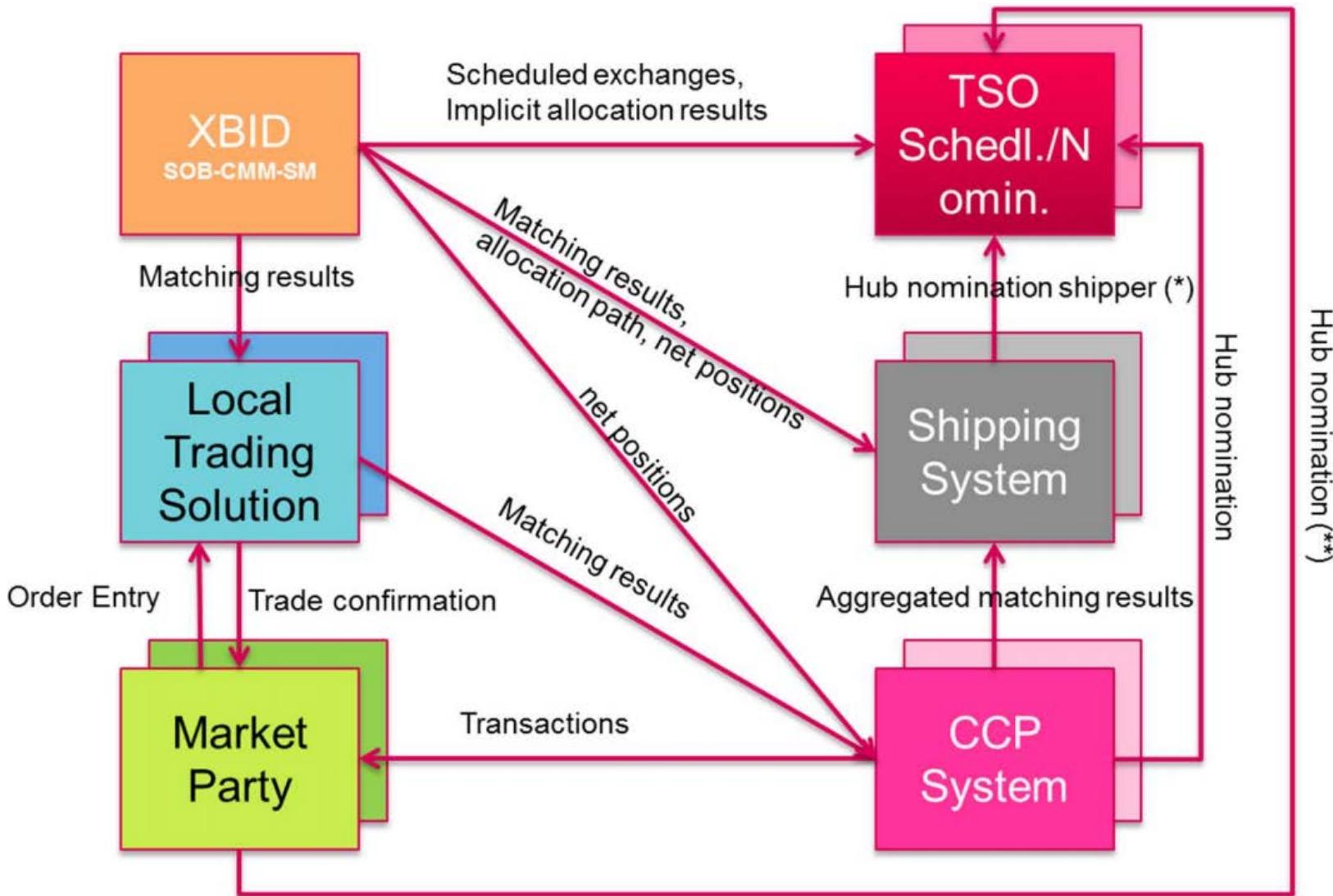
PCR users and members

- Markets using PCR: MRC
- Markets using PCR: 4MMC
- Markets PCR members
- Independent users of PCR
- Markets associate members of PCR



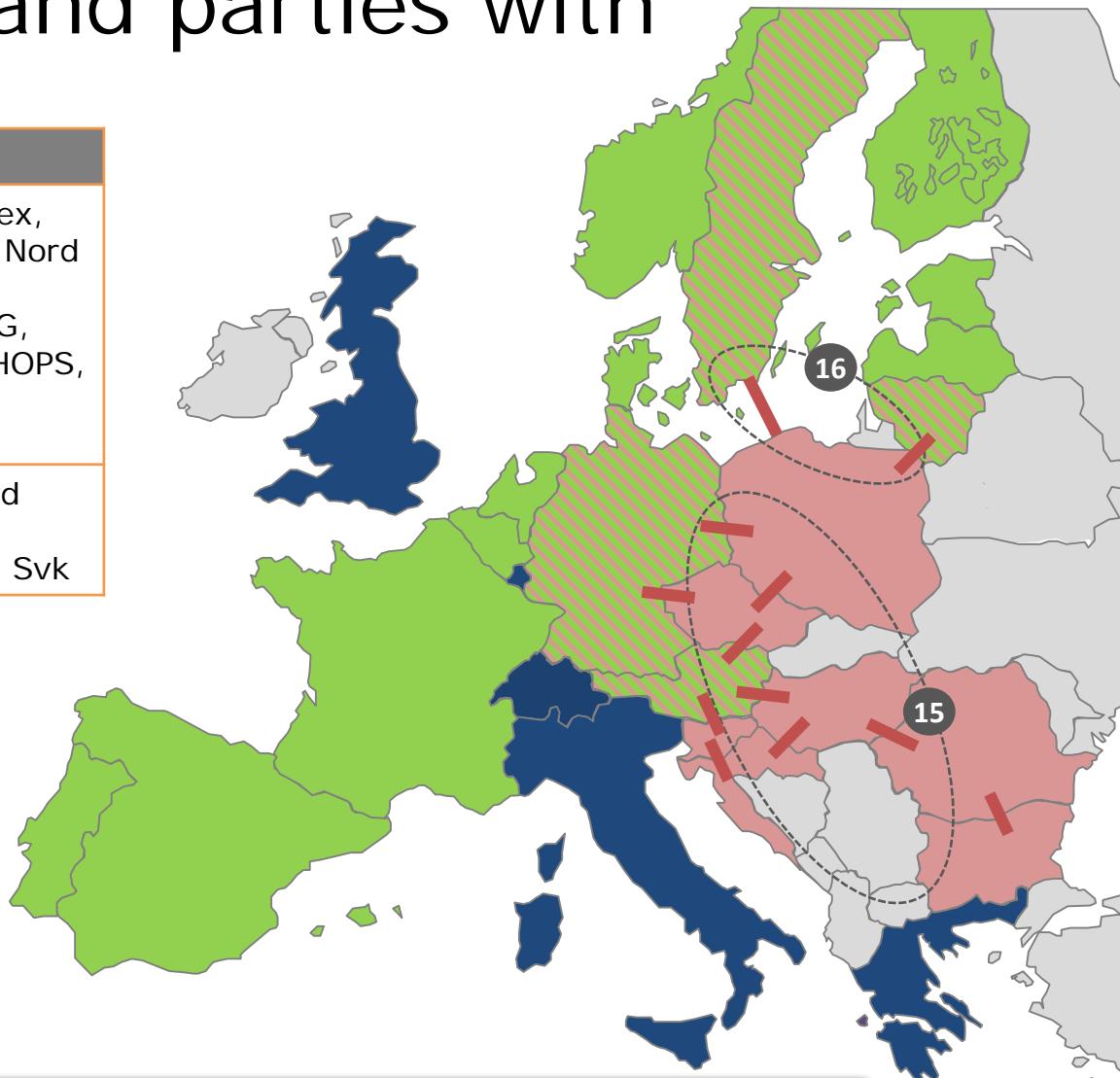
PCR
PRICE COUPLING OF REGIONS

Single intraday market coupling (XBID)



2nd wave LIPs and parties with borders

LIP	Participants
15	NEMOs: BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE TSOs: 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Transelectrica, TTG
16	NEMOs: EPEX, Nord Pool, TGE TSOs: Litgrid, PSE, Svk



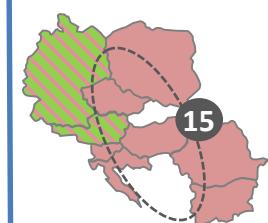
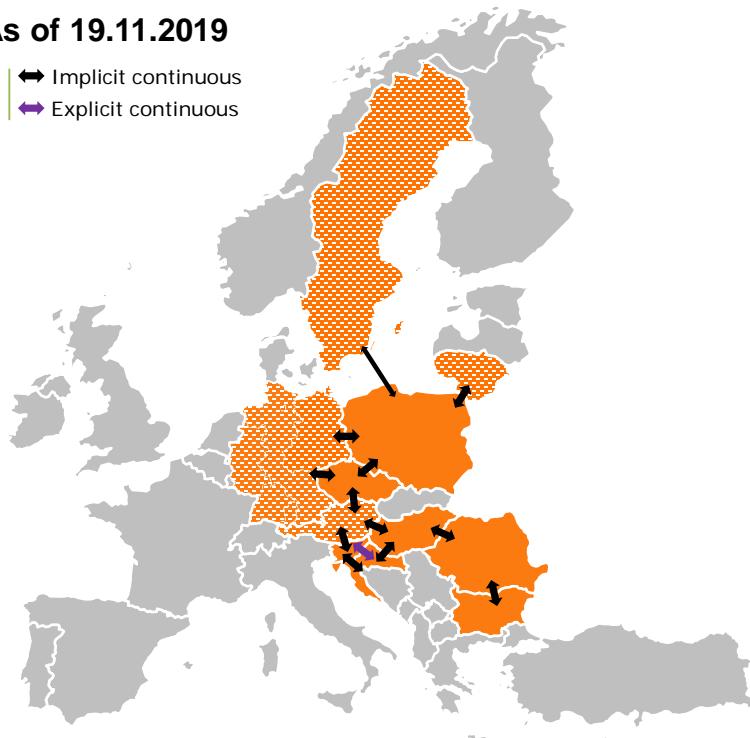
- █ Operational
- Operational, part of 2nd wave
- █ 2nd wave
- Border

Geographical extension of SIDC - 2nd go-live

- Two LIPs are preparing for the 2nd Wave go-live scheduled for 19th November 2019 – namely LIP 15 & 16

As of 19.11.2019

- ↔ Implicit continuous
- Explicit continuous



Name of LIP	LIP 15
Borders involved	AT-CZ, AT-SI, AT-HU, BG-RO, CZ-DE, CZ-PL, DE-PL, HR-SI, HR-HU, HU-RO
Parties involved	19 BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE, TGE 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Transelectrica, TTG

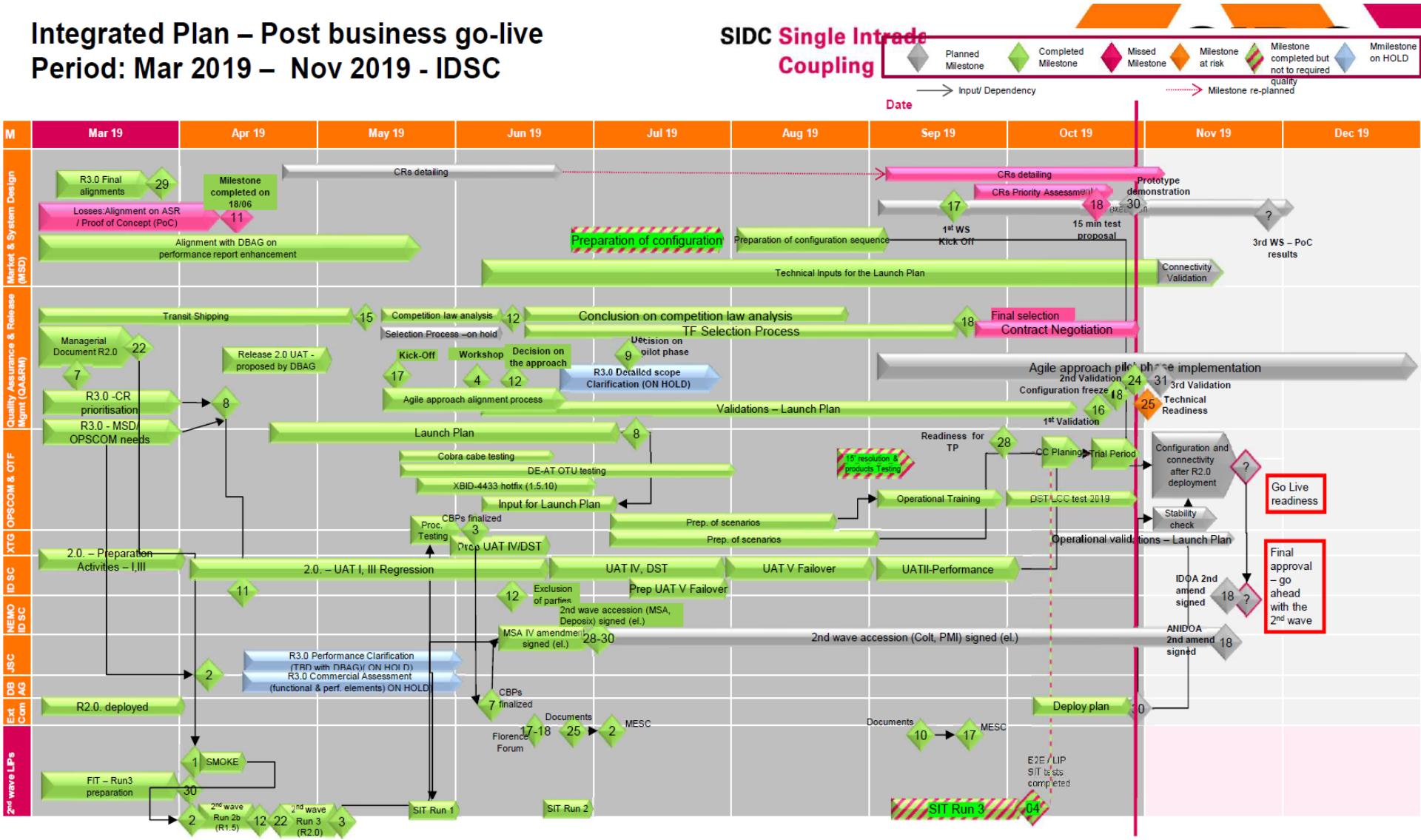


Name of LIP	LIP 16
Borders involved	LT-PL, PL-SE4
Parties involved	6 EPEX Nord Pool TGE Litgrid PSE Svenska Kraftnät (Svk)

Integrated Plan – Post business go-live

Period: Mar 2019 – Nov 2019 - IDSC

SIDC Single Intraday Coupling



THANK YOU FOR YOUR ATTENTION!