Single day-ahead and intraday coupling
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

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

**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

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

**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

MRC & 4MMC

PCR

N-Side

Euphemia
PCR users and members
Single intraday market coupling (XBID)

- XBID
  - SOB-CMM-SM
  - Matching results

- Local Trading Solution
  - Order Entry
  - Trade confirmation

- Market Party
  - Transactions

- TSO Schedl./Nom
  - Hub nomination shipper (*)
  - Hub nomination (**)

- Shipping System
  - Hub nomination
  - Aggregated matching results

- CCP System
  - Matching results
  - Allocation path, net positions

- Scheduled exchanges, Implicit allocation results
# 2nd wave LIPs and parties with borders

<table>
<thead>
<tr>
<th>LIP</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>AT-CZ, AT-SI, AT-HU, BG-RO, CZ-DE, CZ-PL, DE-PL, HR-SI, HR-HU, HU-RO, HU-SI</td>
</tr>
<tr>
<td></td>
<td><strong>NEMOs</strong>: BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE</td>
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<tr>
<td></td>
<td><strong>TSOs</strong>: 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Transelectrica, TTG</td>
</tr>
<tr>
<td>16</td>
<td>LT-PL, PL-SE</td>
</tr>
<tr>
<td></td>
<td><strong>NEMOs</strong>: EPEX, Nord Pool, TGE</td>
</tr>
<tr>
<td></td>
<td><strong>TSOs</strong>: Litgrid, PSE, Svk</td>
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</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Name of LIP</th>
<th>LIP 15</th>
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</thead>
<tbody>
<tr>
<td>Borders involved</td>
<td>AT-CZ, AT-SI, AT-HU, BG-RO, CZ-DE, CZ-PL, DE-PL, HR-SI, HR-HU, HU-RO</td>
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<tr>
<td>Parties involved</td>
<td>19 BSP, Cropex, EPEX, HUPX, IBEX, Nord Pool, OPCOM, OTE, TGE, 50Hertz, APG, CEPS, ELES, ESO, HOPS, MAVIR, PSE, Transelectrica, TTG</td>
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<table>
<thead>
<tr>
<th>Name of LIP</th>
<th>LIP 16</th>
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</thead>
<tbody>
<tr>
<td>Borders involved</td>
<td>LT-PL, PL-SE4</td>
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<tr>
<td>Parties involved</td>
<td>6 EPEX, Nord Pool, TGE, Litgrid, PSE, Svenska Kraftnät (Svk)</td>
</tr>
</tbody>
</table>
Integrated Plan – Post business go-live

**SIDC Single Intraday Coupling**

**Date**

- Input Dependency
- Milestone completed
- Milestone completed but not in planned
- Milestone at risk
- Milestone not planned

- Release 2.0 UAT - proposed by DBAG
- R3.0 Milestones
- R3.0: Design
- Competition law analysis
- Decision on the approach
- Agile approach alignment process
- Launch Plan
- Linearisation Testing
- DBGT: GTT testing
- Input for Launch Plan
- Prep of scenarios

- UAT IV: Performance
- UAT V: Failover
- UAT IV: DST
- UAT IV: V Test
- R3.6 Performance clarification (ITM with R3.6 review process & R3.6 Commercial Assessment (functional & perf elements ON HOLD))

- MSA IV amendment signed at 11
- 2nd wave success (MSA 2018) signed (at 3)

- INF Ericsson
- INF Ericsson
- INF Ericsson
- INF Ericsson
- INF Ericsson

- 2nd wave USP preparation
- SIT Run 1
- SIT Run 2
- SIT Run 3

- Go Live readiness
- Final approval
- 3rd W3 - PoC results
THANK YOU FOR YOUR ATTENTION!