

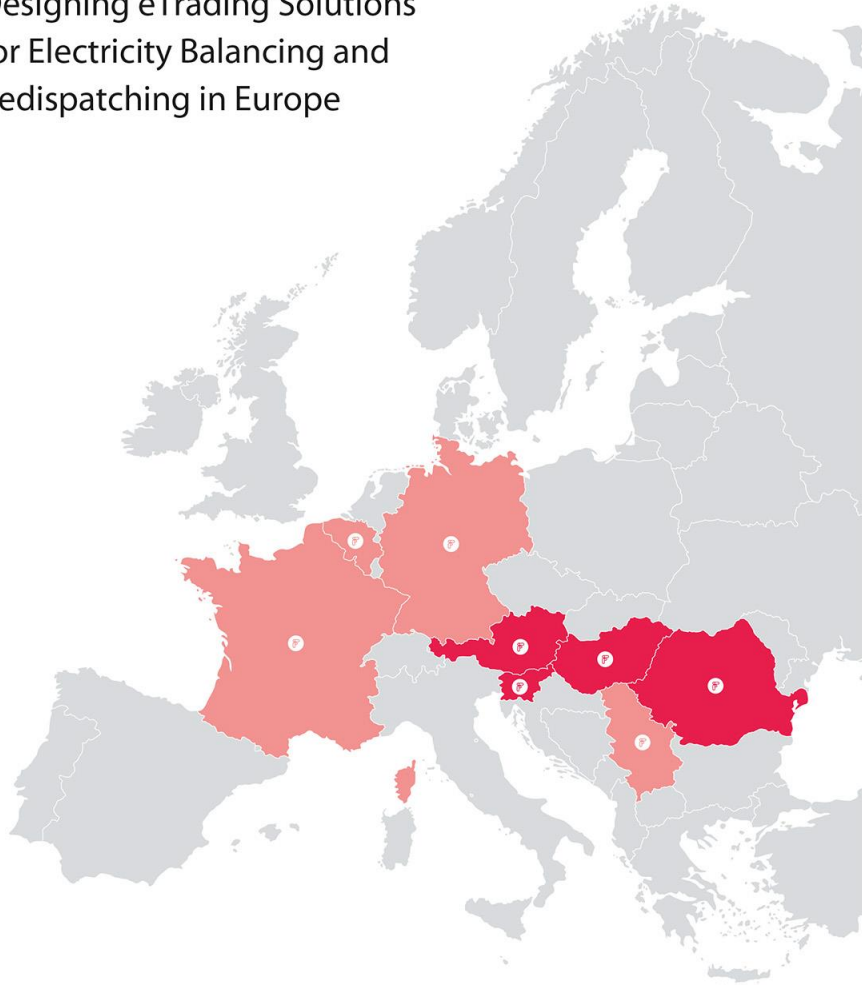


EUW 2018

Vienna, November 6, 2018

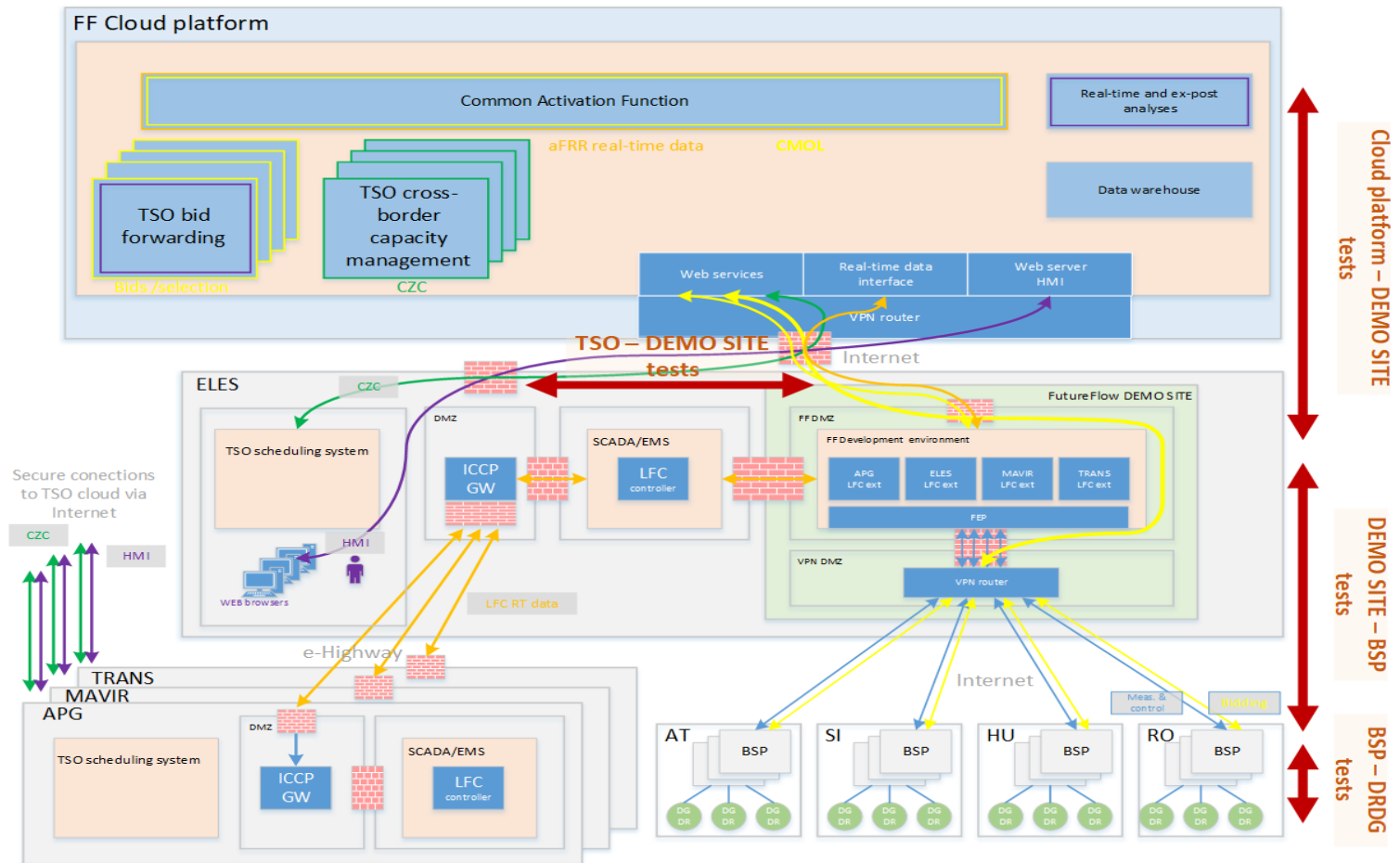


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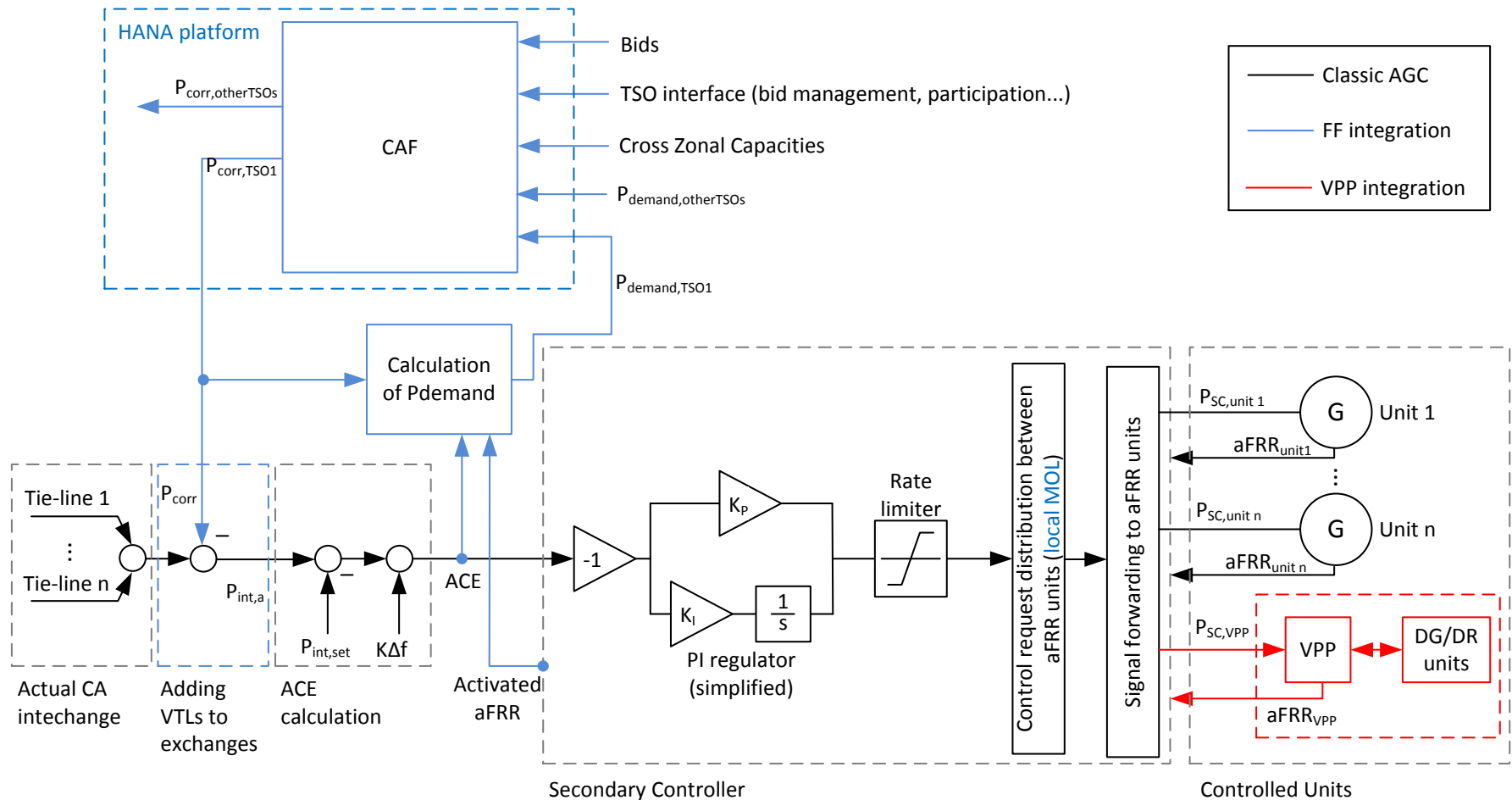


Cross border Cooperation applied between four TSOs!!!

Three level architecture



Architecture should be suited to specific services and to the traditional TSO or DSO environment



Designing eTrading Solutions
for Electricity Balancing and
Redispatching in Europe



Findings

60 %



Potential of cost reduction for
aFRR between four countries

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Findings

57 %



Potential of cost reduction for
redispatching based on Power flow
decomposition

recruited already...

40 clients

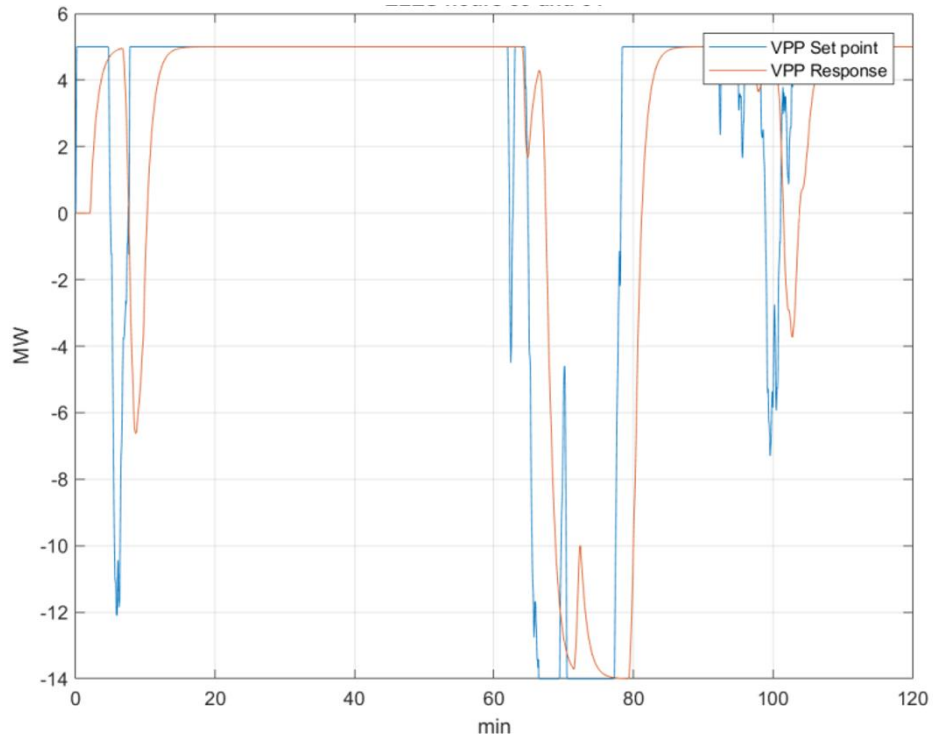
68 BIs

84 TUs

+29/-25 MW flex

Country	Sector	Capacity given to FutureFlow (kW)		
		+ kW	- kW	
AT	Industrial generation	8.000	5.000	-3.000
AT	Industrial load	7.000	3.500	-3.500
AT	CHP generators	5.000		-5.000
SI	Industrial load	4.000	1.000	-3.000
SI	CHP generators	3000		-3000
SI	Large RES above 1 MW	2300		-2300
SI	Small RES up to 1 MW	2000		-2000
RO	Large RES above 1 MW	2000		-2000
AT	Industrial load	2000	1000	-1000
HU	CHP generators	1300		-1300
HU	Industrial load	1.000	500	-500
RO	Large RES above 1 MW	1000		-1000
RO	Large RES above 1 MW	1000		-1000
RO	Large RES above 1 MW	1000		-1000
SI	Industrial generation	1.000	1.000	
SI	Business/Commercial loads	1.000	1.000	
SI	CHP generators	1.000		-1.000
SI	Small RES up to 1 MW	860		-860
SI	Industrial load	850	850	
HU	CHP generators	800		-800
SI	Small RES up to 1 MW	440		-440
SI	Small RES up to 1 MW	280		-280
RO	Small RES up to 1 MW	250		-250
RO	Small RES up to 1 MW	224		-224
SI	Small RES up to 1 MW	218		-218
SI	Small RES up to 1 MW	138		-138
SI	Small RES up to 1 MW	88		-88
SI	Small RES up to 1 MW	68		-68
SI	Small RES up to 1 MW	62		-62
SI	Small RES up to 1 MW	62		-62
		47.940,0	13.850,0	-33.840,0

VPP activation tests



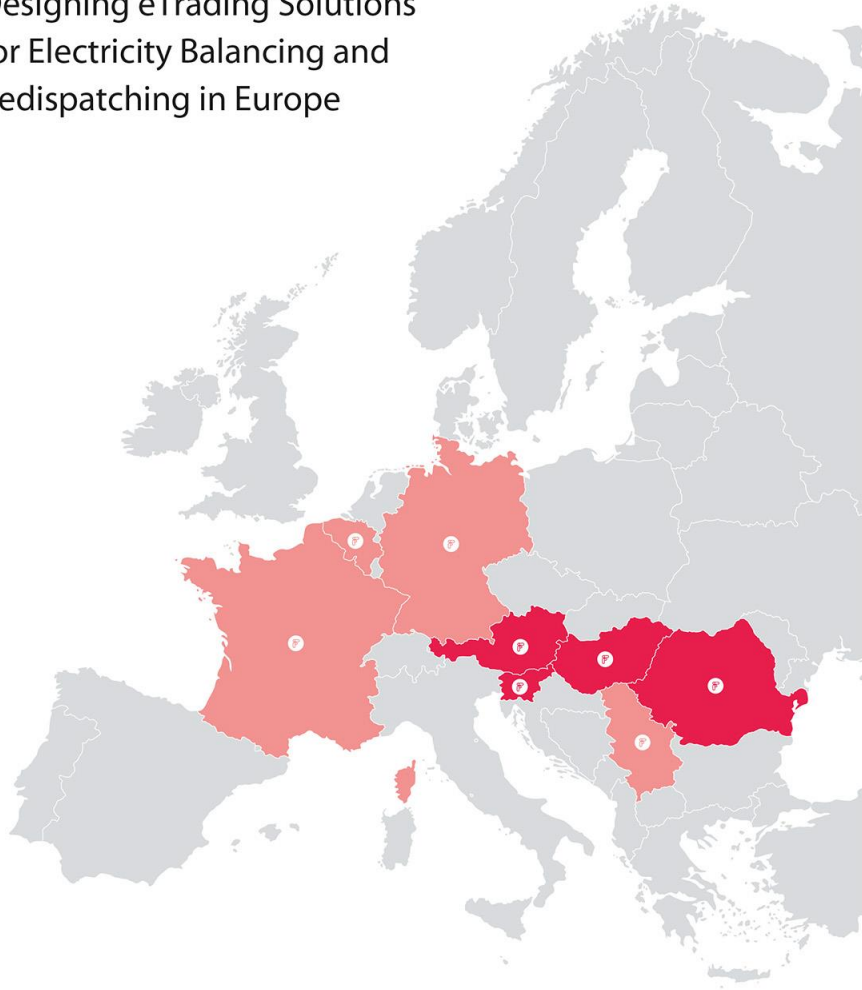


Findings



Can VPPs provide
services for aFRR and
redispatching markets?

Designing eTrading Solutions
for Electricity Balancing and
Redispatching in Europe



Findings



**Technically and
commercially challenging
but possible!**

