

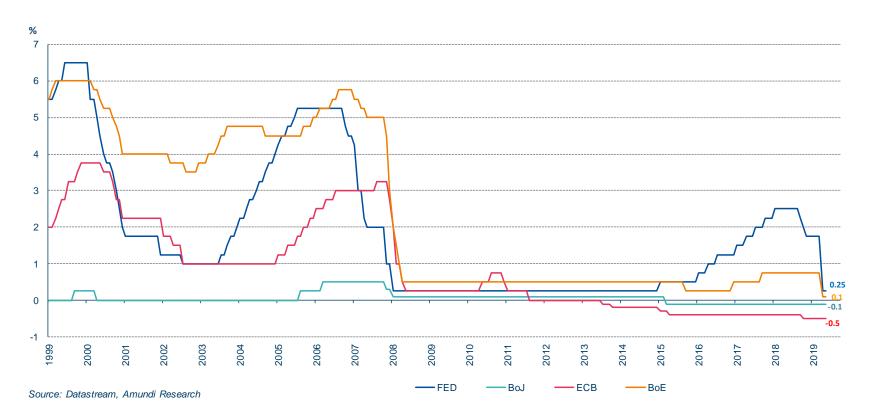
April 2020

ECB QE Monitor

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Central Banks: interest rates near zero

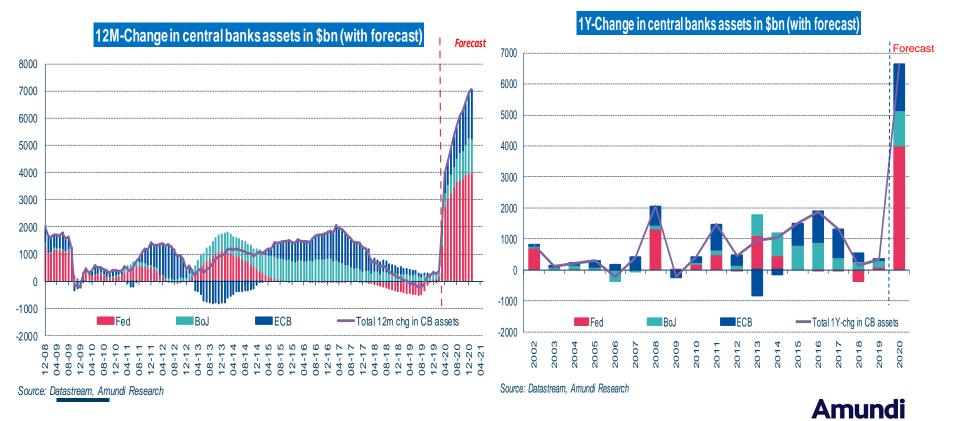
- The Fed kept its interest rates unchanged.
- The ECB kept its interest rates unchanged.
- No movement on BoJ interest rates since 2016.





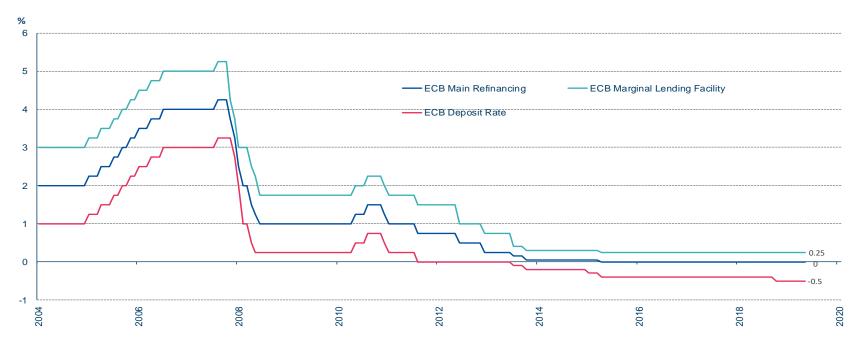
Central Banks: massive extension of balance sheets

- In March, the ECB activated a "pandemic emergency purchasing program" (PEPP) for a an additional €750bn. In total, the ECB have approximately €1,110bn of purchasing power in 2020 or around €110bn/month.
- The Fed announced unlimited purchases of Treasuries and MBS. The Congressional Budget Office expects the federal budget deficit to hit \$3.7 trillion by the end of fiscal year 2020.



ECB Policy Rates

ECB	30/04/2020
ECB Main Refinancing	0
ECB Deposit Rate	-0.5
ECB Marginal Lending Facility	0.25
Next ECB Meeting	04/06/2020

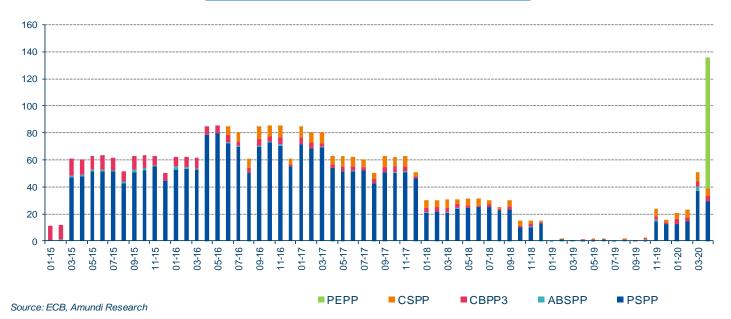




APP and PEPP: breakdown by program

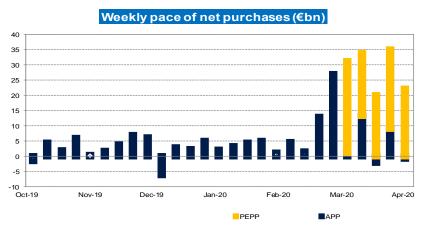
- In April, ECB net asset purchases reached €38.5bn under APP and €96.7bn under PEPP.
- In April APP by programme: PSPP (€29.6bn; 77% of total), CSPP (€5.6bn; 14.5%), CBPP3 (€3.6bn; 9.3%) and ABSPP (€-0.3bn; 0%).
- Sovereign (PEPP and CSPP): net purchases will be around €90bn/month up to end of the year.
- Corporate (PEPP and CSPP): net purchases will be around €10bn/month up to end of the year.

ECB APP + PEPP: monthly net purchases (€bn)





APP and PEPP: purchasing power until end of 2020



The ECB reported cumulative PEPP purchases through 1 May 2020 at €118.8bn on a settlement basis, leaving over €630bn remaining to be spent.

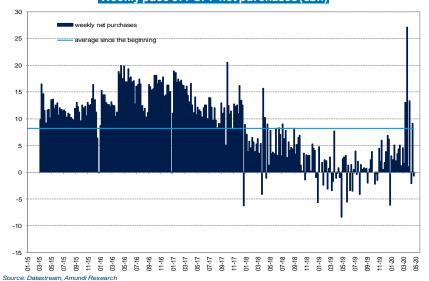
Source: Datastream, Amundi Research

30/04/2020	Total	Remaining
Additional APP envelope	120	70.4
PEPP	750	631.2
Total	<i>87</i> 0	701.6

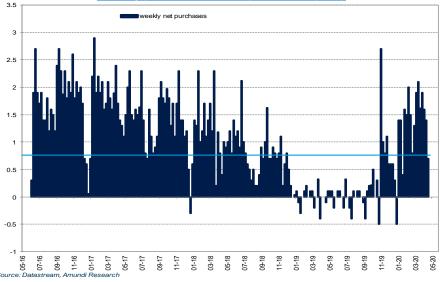


APP weekly Net purchases

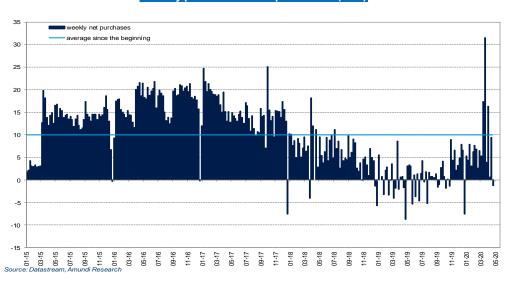
Weekly pace of PSPP net purchases (€bn)



Weekly pace of CSPP net purchases (€bn)



Weekly pace of APP net purchases (€bn)





PSPP: monthly purchases breakdown by country

Country	Net Purchases March 2020 (RHS)		Theoret purchas capita	Deviation from	
	(€bn)	% PSPP	(€bn)	%	capital Key (€bn)
Germany	3.0	9.5%	7.8	24.3%	-4.7
France	8.3	26.0%	6.0	18.8%	2.3
Italy	10.9	34.1%	5.0	15.6%	5.9
Spain	4.3	13.3%	3.6	11.1%	0.7
The Nether	1.5	4.6%	1.7	5.4%	-0.2
Belgium	2.0	6.2%	1.1	3.4%	0.9
Austria	1.3	4.0%	0.9	2.7%	0.4
Portugal	0.5	1.4%	0.7	2.2%	-0.2
Finland	-1.3	-4.1%	0.5	1.7%	-1.9
Ireland	-1.1	-3.6%	0.5	1.6%	-1.7
Slovakia	-0.6	-1.8%	0.3	1.1%	-0.9
Slovenia	0.1	0.3%	0.1	0.4%	0.0
Luxembou	0.1	0.3%	0.1	0.3%	0.0
Latvia	0.1	0.2%	0.1	0.4%	-0.1
Lithuania	0.1	0.2%	0.2	0.5%	-0.1
Malta	0.0	0.0%	0.0	0.1%	0.0
Cyprus	0.1	0.4%	0.1	0.2%	0.1
Estonia	0.0	0.0%	0.1	0.3%	-0.1
Supranatio	2.9	8.9%	3.2	10.0%	-0.3
Total	32.0	100%	32.0	100%	

- In the April round, the largest upside deviation relative to the capital key was in Italy and the largest downside deviation was in Germany.
- The deviations may persist in the near future as the ECB and NCBs continue to use the program's flexibility to combat market fragmentation amid the Covid-19 outbreak.



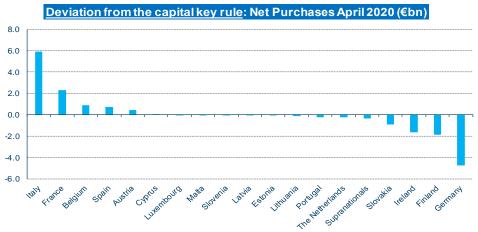
PSPP: holdings breakdown by country

Country	Holdings		Holdings with New Capital Key		Deviation from capital
	(€bn)	% PSPP	(€bn)	%	Key (€bn)
Germany	534	23.3%	556	24.3%	-22.3
France	452	19.7%	430	18.8%	21.4
Italy	393	17.2%	357	15.6%	35.9
Spain	271	11.8%	254	11.1%	16.5
The Netherlands	113	4.9%	124	5.4%	-10.5
Belgium	80	3.5%	78	3.4%	2.5
Austria	63	2.8%	62	2.7%	1.4
Portugal	43	1.9%	50	2.2%	-7.8
Finland	34	1.5%	39	1.7%	-5.3
Ireland	33	1.5%	37	1.6%	-3.3
Slovakia	12	0.5%	24	1.1%	-11.9
Slovenia	8	0.4%	10	0.4%	-2.1
Luxembourg	3	0.1%	7	0.3%	-3.9
Latvia	3	0.1%	8	0.4%	-5.7
Lithuania	4	0.2%	12	0.5%	-8.4
Malta	1	0.1%	2	0.1%	-1.0
Cyprus	2	0.1%	5	0.2%	-2.2
Estonia	0	0.0%	6	0.3%	-6.0
Supranationals	242	10.6%	229	10.0%	12.8

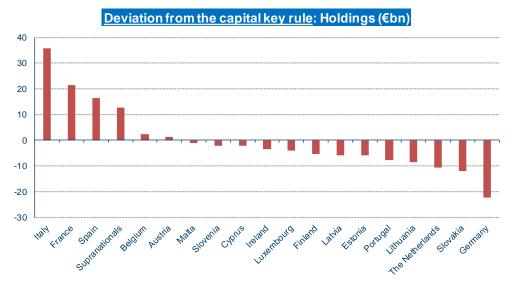
 Holdings are supposed to converge towards the ECB capital key at the end of the program.



Monthly Deviation in the share of purchases relative to the **ECB** capital key

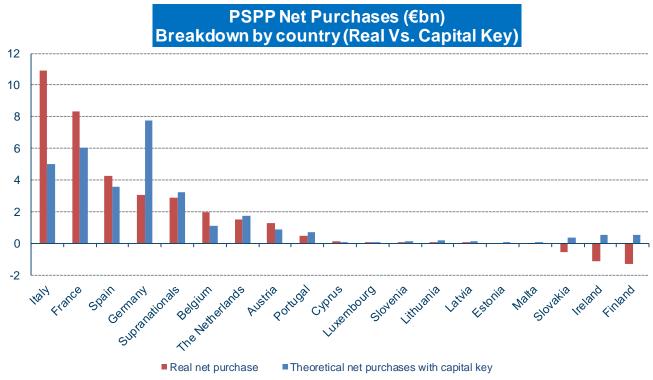


Source: Datastream, Amundi Research





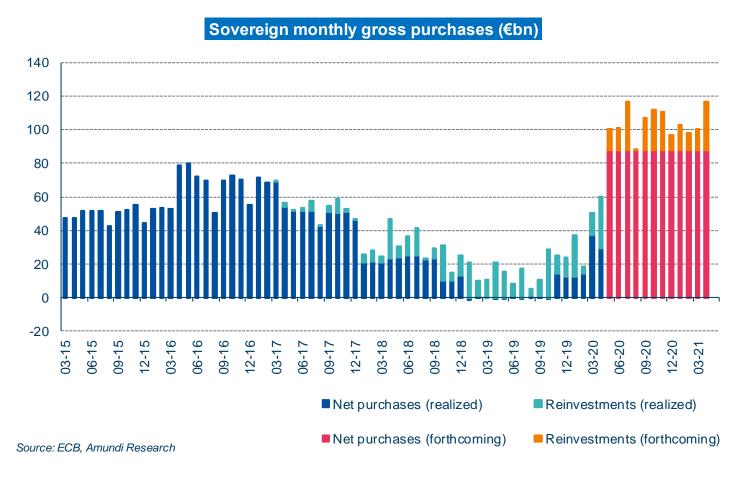
Total Deviation in the share of purchases relative to the **ECB** capital key





APP: PSPP reinvestment

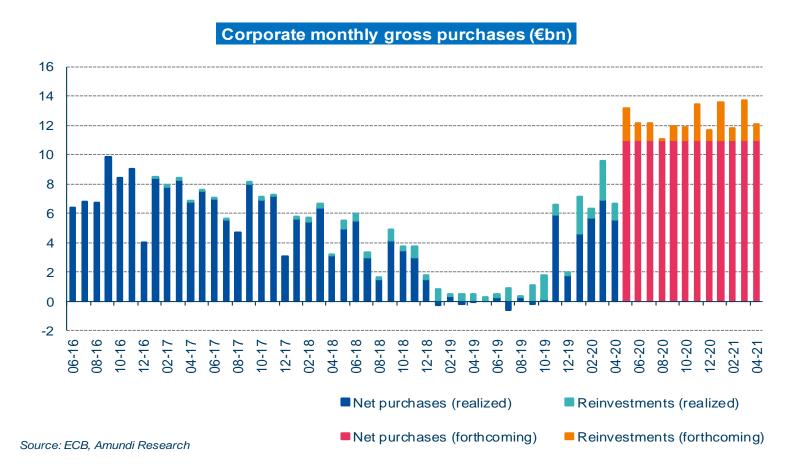
PSPP reinvestment will average €16.3bn/month over the next 12 months, up from €14.9bn in the past 12 months.





APP: CSPP reinvestment

CSPP reinvestment will average €1.4bn/month over the next 12 months





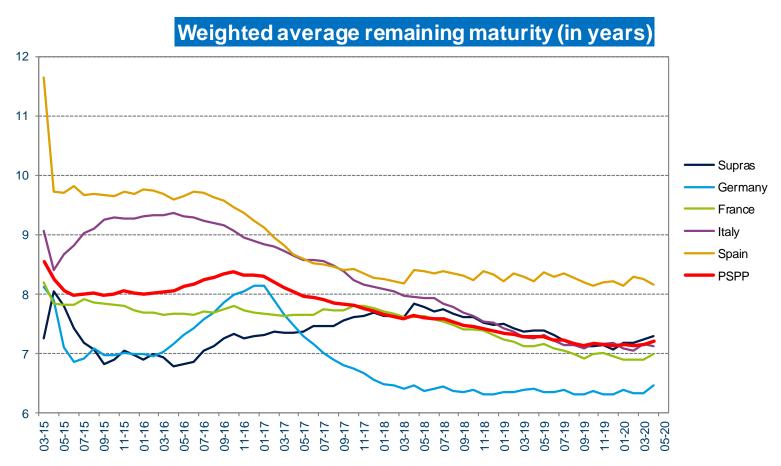
Weighted average maturities by jurisdiction for the PSPP

Country	Weighted Average maturity of PSPP Portfolio				
	Mar-20	Apr-20	Dec-19		
Germany	6.3	6.5	6.3		
France	6.9	7.0	7.0		
Italy	7.2	7.1	7.2		
Spain	8.3	8.2	8.2		
The Netherlands	7.4	7.4	7.2		
Belgium	8.4	8.4	8.6		
Austria	7.6	7.6	7.6		
Portugal	7.5	7.5	7.6		
Finland	6.5	7.0	6.6		
Ireland	8.4	8.9	8.2		
Slovakia	8.3	8.9	8.5		
Slovenia	10.1	10.0	9.9		
Luxembourg	3.9	3.9	4.0		
Latvia	10.7	10.6	10.6		
Lithuania	9.3	9.1	9.4		
Malta	10.2	10.3	10.3		
Cyprus	8.9	9.2	8.7		
Estonia	0.0	0.0	0.0		
Supranationals	7.2	7.3	7.1		
Total	7.1	7.2	7.1		

The PSPP portfolio average maturity has declined slowly since 2016.



Weighted average maturities by jurisdiction for the PSPP





Stock of the Eurosystem's asset purchase program

As of 31 March 2020, the Eurosystem's asset holdings reached €2,705bn. Breakdown by program:

- PSPP: €2,189bn (81% of total holdings)

- CSPP: €207bn (8%)

- CBPP3: €278bn (10%)

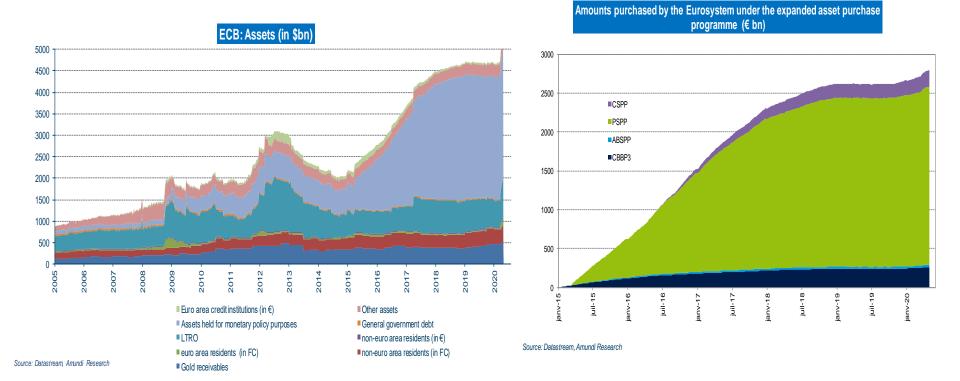
- ABSPP: €31bn (1%)

- The share of corporate debt purchases continues to increase since the program's resumption.
- Since November 2019 (Restart ECB QE), the proportion of PSPP purchases relative to the APP is 68% which is significantly lower than the proportion of 80% that the ECB bought until December 2018.

30/04/2020	Asset Purchase Programme (APP)	Public Sector Purchase Programme (PSPP)	Third Covered Bond Purchase Programme (CBPP3)	Asset-Backed Securities Purchase Programme (ABSPP)	Corporate Sector Purchase Programme (CSPP)
Holdings (€bn)	2 705	2 189	278	31	207
Holdings (% APP)	100%	81%	10%	1%	8%
Gross Purchases Mthly (€bn)	72.6	60.0	5.3	0.7	6.7
Redemptions Mthly (€bn)	34.2	30.3	1.7	1.0	1.1
Net Purchases Mthly (€bn)	38.5	29.6	3.6	-0.3	5.6
Net purchases since QE2 (€bn)	158	107	17	4	30
Net purchases since QE2 (% APP)	100%	68%	11%	3%	19%
Net purchases cum. on QE1	2618	2171	241	26	181
Net purchases cum. on QE1 (%APP)	100%	83%	9%	1%	7%

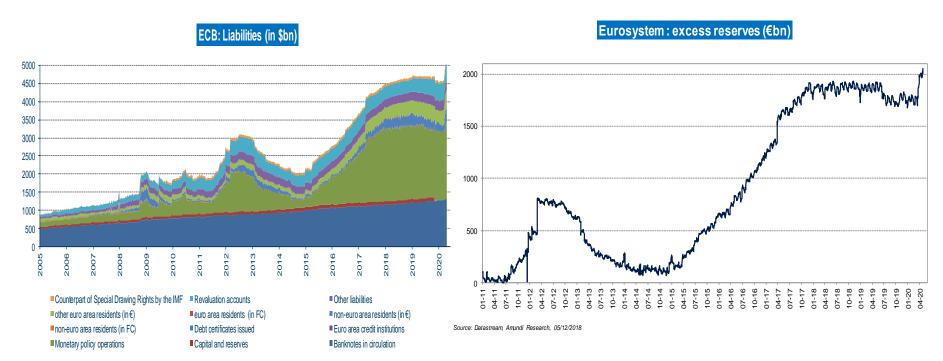


ECB Balance Sheet (1/2)



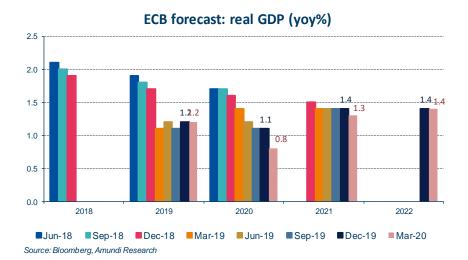


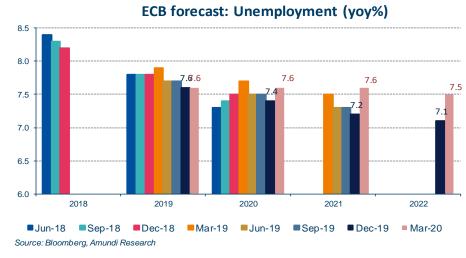
ECB Balance Sheet (2/2)

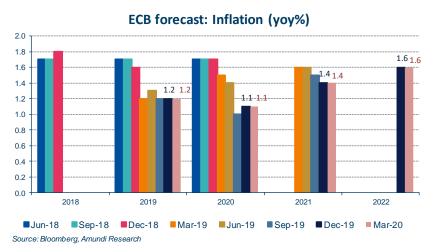


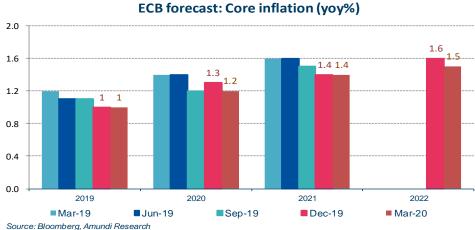


ECB Projections











Appendix

The Eurosystem started its QE in March 2015. The seven main episodes were:

- March 9 2015 (decision to purchase €60bn of assets per month until Sept. 2016),
- December 3 2015 (decision to extend the QE until March 2017),
- March 10 2016 (decision to increase monthly purchases from €60bn to €80bn from April 2016),
- December 8 2016 (decision to extend the QE until December 2017 at a reduced monthly pace of €60bn),
- October 26 2017 (decision to extend the QE until September 2018 at a reduced monthly pace of €30bn)
- June 14 2018 (decision to announce the end of QE in December 2018)
- October 30 2019 (with the arrival of Christine Lagarde replacing Mario Draghi, decision announced to restart its QE: purchase €20bn of assets per month without end date)

Lexicon:

- **PSPP**: Public Sector Purchase Programme;
- **APP**: Asset Purchase Programme;
- **CSPP**: Corporate Sector Purchase Programme;
- **CBPP**: Covered Bond Purchase Programme;
- **SMP**: Security Market Programme;
- ABSPP: Asset Back-Backed Securities Purchase Programme.



DISCLAIMER

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