



Risk assets were significantly higher in April due to the flattening of the pandemic curve and substantial monetary and fiscal stimuli

- Risk assets have rallied strongly since mid-March, albeit the pace of gains has moderated over the past three weeks. The effectiveness of social distancing measures vis-a-vis curbing the spread of COVID-19, as well as massive monetary policy stimulus, especially by the Federal Reserve, have succeeded in lowering risk and liquidity premia, driving equity prices higher and corporate bond spreads lower (see graph below for S&P500 Equity Risk Premium). Moreover, abnormal Price/NAV discounts evident in major corporate bond ETFs have normalised (see graph page 3). Finally, expansionary fiscal policy is expected to cushion the blow to household income due to the lockdown, aiming to support, through loans and grants, viable companies that experience liquidity mismatches.
- Overall, the SPX has increased by 30% at 2930 since its trough in mid-March and has overperformed its Developed-market peers by a wide margin. Corporate bond spreads have recouped a significant portion of their COVID-19 widening (USD IG: 60%, USD HY: 50%, EUR IG: 40% and EUR HY:40%). Volatility has declined considerably, particularly in the Sovereign spectrum, as central banks have *de facto* committed to unlimited amount of purchases, at least as long as the pandemic distorts proper economic functioning. Equity and foreign exchange volatility has also subsided, albeit it remains above pre-crisis levels (see graph page 3).
- As the post coronavirus re-opening begins gradually, we have constructed a Social Distancing Index (SDI) per basic economy based on Google's community mobility report (see graph below). The report tracks movement trends over time across six different categories of places, but we choose to use the more relevant ones, i.e., i) retail and recreation; ii) groceries and pharmacies; iii) transit stations; and iv) work places. With the exception of Japan, SDIs of advanced economies have stabilised, but remain at very low levels, suggesting extreme values of social distancing. We expect these SDIs to gradually rise, albeit failing to revert to pre-coronavirus levels during the course of 2020. As a result, certain sectors/companies such as mass tourism, mass recreation, energy and materials, airlines and autos are expected to remain ultra sensitive to the underlying health of the economy.
- The Federal Reserve expanded its balance sheet by circa \$2.5 trillion to \$7 trillion (30% of 2019 GDP) in the past two months, and committed to directly support the credit markets via its primary and secondary market facilities with a "firepower" of up to \$750 billion. Moreover, after having cut its policy rates by 150 bps to 0%-0.25%, the Federal Reserve expects to maintain this range until it is confident that the economy has weathered the sharp decline in economic activity and the associated job losses, with futures pricing in zero rates for three years. Note that the US unemployment rate has risen sharply to 15% in April (see Economics).
- On the other side of the Atlantic, the ECB expanded its balance sheet by €690bn to €5.5 trillion (40% of 2019 GDP) through its regular and pandemic-related asset purchases and loans (conditional and unconditional) to financial institutions (cont'd on page 2).

Ilias Tsirigotakis^{AC}
Head of Global
Markets Research
210-3341517
tsirigotakis.ilias@nbg.gr

Panagiotis Bakalis
210-3341545
mpakalis.pan@nbg.gr

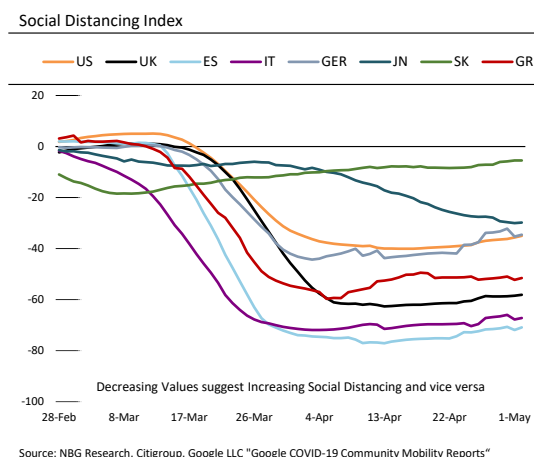
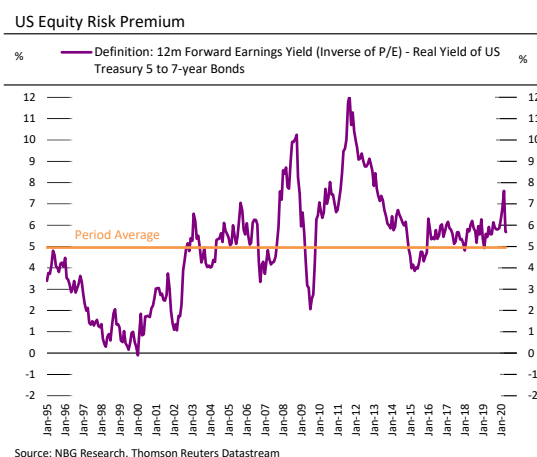
Vasiliki Karagianni
210-3341548
karagianni.vasiliki@nbg.gr

Leonidas Patsios
210-3341553
Patsios.Leonidas@nbg.gr

Table of Contents

- Overview_p1
- Economics & Markets_p2,3
- Forecasts & Outlook_p4
- Event Calendar_p5
- Markets Monitor_p6
- ChartRoom_p7,8
- Market Valuation_p9,10

Charts of the week



...The recent ruling by the German Constitutional Court that both the European Court of Justice (ECJ) and the ECB had acted *ultra vires* with regard to whether the ECB's decisions on the public sector purchase programme (PSPP) satisfy the principle of proportionality, inserted fresh bouts of volatility in the euro area periphery bond market at least for the next three months, on top of the deterioration in fiscal prospects for certain economies (see graph page 3). Nevertheless, the ruling came with mild positives such as the PSPP does not violate the prohibition on monetary financing. We expect the ECB to proceed relatively unconstrained in the short term, and do whatever is necessary to support the euro area economy, along with the European Commission, EIB and ESM (details regarding the Recovery Fund are expected in mid-May). Note that the ESM revealed the details of its Pandemic Crisis Support which provides broadly unconditional credit lines up to 2% of each euro area member-state GDP, at least until end-2022. The loans would have a maximum average maturity of 10 years with a margin of 0.10% per annum over ESM funding, an annual service fee of 0.05% and an up-front service fee of 0.25%.

US labor market conditions deteriorated in April due to the public health crisis

- **US employment has been hit hard by the pandemic.** As far as the monthly labor report for April is concerned, nonfarm payrolls decreased sharply by 20.5mn (consensus for -22mn), with leisure & hospitality unsurprisingly declining the most (c. 1/3 of total), albeit losses were broad based across industries. Total household employment (including the self-employed and agricultural workers) fell by 22.4 mn, following heavy losses in the previous month by 3mn (all the aforementioned declines outpaced by a wide margin any previous record | -1.2mn in January 2009 for total household employment). As a result, the unemployment rate rose to 14.7% in April, from 4.4% in March (compared with a 50-year low of 3.5% in February), the worst outcome since the Great Depression (c. 25% in 1933).
- **As the Bureau of Labor Statistics (BLS) acknowledged, that outcome is likely underestimated due to technical issues.** First, for a person to be counted as unemployed, participation in the labor force is required, which in turn requires that person to be actively seeking employment. However, for a large number of people, this was not possible due to the restrictions of movements in force. Therefore, these persons were not counted as unemployed. Instead, they dropped out of the calculation of the labor force participation rate which decreased by 2.5% to 60.2%. The aforementioned factor distorted positively the official unemployment rate figure by as much as c. 3.5%. Furthermore, the BLS noted that, in the latest survey, many participants in the labor force were recorded as employed but absent from work due to "other reasons", while they should have been classified as unemployed on temporary layoff. Without that accounting error, BLS estimates that the unemployment rate would have been c. 5% higher than reported. Note also that a broader measure of labor market slack, the U-6 unemployment rate (which includes the unemployed, part-time workers for economic reasons, and those workers marginally attached to the labor force), rose significantly to 22.8% in April, mainly due to a large number of previously full-time employees being forced to work part-time. Importantly, the data reference period for the monthly report was for the week April 12th to 18th, after which substantial declines in employment

have continued, as indicated by the new claims for unemployment insurance. Indeed, initial jobless claims posted a rise of 7mn cumulatively in the two weeks from April 18th to May 1st. On a positive note, the vast majority of newly unemployed are on temporary layoff i.e., persons that either have been given a date to return to work by their employer or expect to be recalled to their job within 6 months. Thus, to the extent that such expectations will be confirmed, the recovery of the labor market post-lockdown could be faster than usual. Finally, recall that direct comparisons between the official unemployment rate in the US and other regions could be misleading in the current circumstances, due to methodological issues. For example, as noted above, US workers on temporary furlough will likely be counted as unemployed, a different norm compared with Europe (as a result, official unemployment rate figures in European countries will likely turn out relatively smaller).

US bank lending standards tightened substantially late in Q1, in view of the negative repercussions from Covid-19

- **The Fed's Senior Loan Officer Opinion Survey (SLOOS) for Q1:20 pointed to a broad based tightening in banks' credit standards across loan categories.** Overall, the survey results were heavily affected by the pandemic, with banks reporting that the changes in both standards and demand across loan categories occurred late in March (the responses were gathered between March 23rd and April 3rd) as the economic outlook shifted following the rapid global spread of COVID-19. Regarding corporates, 42% of banks reported tightening lending standards for commercial and industrial (C&I) loans to large and middle corporations and 40% to small firms. According to the respondents, this was mainly due to a less favorable or more uncertain economic outlook, a worsening of industry-specific problems and reduced tolerance for risk. Banks also noted that they focused on existing clients (to assist them in meeting their liquidity needs and more generally to support their actions to mitigate the effect of the crisis), rather than granting loans to new ones. Across the categories of commercial real estate (non-farm non-residential loans, multi-family loans, construction and land development lending), standards also tightened substantially. Regarding households, a significant tightening was reported for credit standards across consumer loan categories (credit cards, auto loans, other consumer loans) in Q1:20 and a relatively more modest one for mortgage loans.
- **Developments regarding credit appetite were mixed.** As far as corporates are concerned, a net share of 8% of banks reported stronger demand for C&I loans from large and middle sized firms, with an increase in precautionary demand for cash and liquidity (in view of efforts to mitigate the effect of the pandemic crisis on their businesses, with a strong interest for respective newly introduced credit facilities) and a decrease in internally generated funds, more than offsetting the downward effect on demand from a fall in investments in plants or equipment and a decline in customers' merger or acquisition financing needs. Recall that actual lending data by commercial banks are in line with the SLOOS survey's findings, with the annual pace of growth of C&I loans at a record (since 1973) +25% yoy, on average, during April. Meanwhile, appetite weakened for commercial real estate loans. Regarding households, respondents cited stronger demand for mortgage loans and weaker demand for all categories of consumer loans.

Equities

- Global equity markets rose in the past week**, due to positive news regarding a potential Covid-19 treatment, optimism that an escalation of US-China trade war will be avoided, and on hopes that the global economy is bottoming as lockdowns gradually begin to be lifted. Weak (but in some cases better-than-expected) economic data and fears of a rise in infections did not affect investors' risk appetite. Overall, the MSCI ACWI ended the week up by +2.4% (-13.3% ytd), with developed markets (+2.8% wow) overperforming their emerging market peers (-0.6% wow). In the US, the S&P500, after two negative weeks, rose by 3.5% wow, with the Energy sector leading the increase, on the back of higher oil prices. The Nasdaq rose by 6% wow, entering positive territory YTD for the first time since March 3rd. The equity volatility index (VIX index) declined to 28% in the past week, its lowest level since February 26th. As far as the earnings season is concerned, out of the 438 companies that have reported results so far, 65% have surpassed analyst estimates. Consensus EPS expectations for Q1:20 stand at -13.6% yoy from -14.3% yoy in the past week, with positive earnings surprises reported by companies in the Industrials sector being the key players. The forward 12-month P/E ratio is 20.4, which is above four historical averages: 5-year (16.7), 10-year (15.1), 15-year (14.6), and 20-year (15.4). It is the first time the S&P 500 recorded a forward 12-month P/E ratio of 20 or higher since April 2002. On the other side of the Atlantic, the Eurostoxx rose by 0.1% wow, with the Retail sector leading the increase.

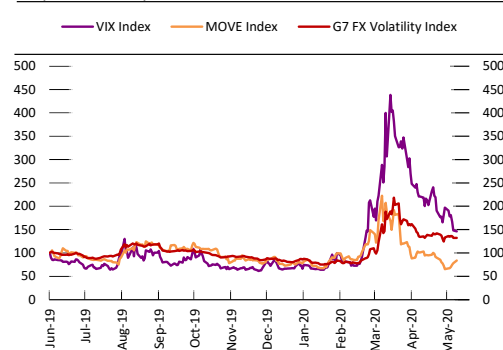
Fixed Income

- Government bond yields were mixed in the past week.** The US Treasury Department announced record borrowing plans of \$3 tn in Q2:20 (more than double the annual figure of 2019 and five times larger than previous quarter record in Q2:08) and plans to shift financing to longer-dated tenors over the coming quarters. As a result, the US 10-year yield rose by 7 bps to 0.69%, while 2-year yields decreased by 3 bps wow to 0.16%, having posted a record low intra-week. In the UK, the 10-year yield declined by 1 bp wow to 0.24%. In Germany, the 10-year Bund yield ended the week up by 5 bps to -0.54%. Periphery bond yields rose, following the ruling of the German constitutional court on the legality of the ECB's decisions on the Public Sector Purchase Programme (PSPP). Indeed, in Italy, the 10-year yield increased by 8 bps wow to 1.85%, in Portugal by 11 bps wow to 0.92%, in Spain by 7 bps wow to 0.80% and in Greece by 3 bps wow to 2.19%. **Corporate bond spreads were also mixed** in the past week, as IG corporate debt issuance continues at a record pace, with US spreads overperforming their euro area peers. Indeed, US high yield spreads fell by 18 bps to 752 bps, while their euro area counterparts were up by 17 bps to 652 bps. In the Investment Grade spectrum, US spreads, increased by 4 bps to 222 bps and their euro area counterparts rose by 6 bps to 189 bps.

FX and Commodities

- In foreign exchange markets, the euro fell in the past week** on the back of weaker-than-expected economic data, the ruling of the German Constitutional Court and the ominous economic forecasts by European Commission. Overall, the euro declined by 1.3% against the US dollar to \$1.08, by -1.6% against the Japanese Yen to ¥115.46, reaching a 3-year low intra-week. The British Pound decreased by -0.7% against the US Dollar to \$1.24 and by -0.6% against the euro to €0.87, after Bank of England projections and due to cautiousness about the easing of the lockdown as coronavirus deaths in the UK exceeded 30,000 (the highest in Europe). **Finally, in commodities, oil prices rallied in the past week**, recording gains for two consecutive weeks, for the first time since February 21st, due to a smaller-than-expected inventory build in the US, production cuts worldwide and signs that global demand is rising as economies gradually reopen. Oil inventories increased for a 15th consecutive week (+4.6 million barrels to 532 million barrels for the week ending May 1st), albeit at a slower pace, recording the smallest weekly increase since March 20th. Overall, Brent increased by 22% wow (-56.9% ytd) to \$28.6/barrel and WTI rose by 23.8% wow (-59.9% ytd) to \$24.5/barrel.

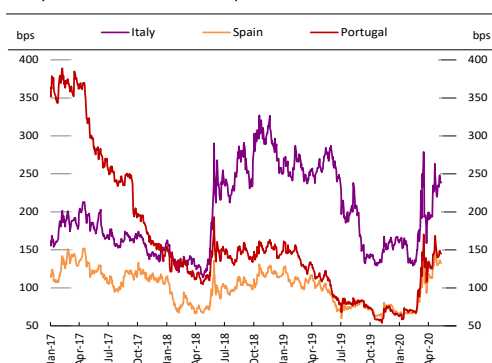
Implied Volatility Indices



Source: NBG Research, Bloomberg, June 2019 = 100, VIX is S&P500 30-day implied Vol. Index. The MOVE Index tracks the movement in US Treasury yield volatility implied by current prices of one-month over-the-counter options on 2Y, 5Y, 10Y and 30Y USTs

Graph 1.

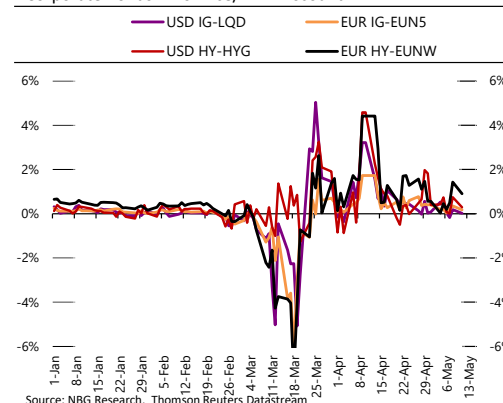
10-year Government Bonds Spreads Over Bund



Source: NBG Research, Bloomberg

Graph 2.

Corporate Bonds ETFs Price/NAV Discount



Source: NBG Research, Thomson Reuters Datastream

Graph 3.

Quote of the week: "We are an independent institution, accountable to the European Parliament and driven by our mandate, ...we will continue to do whatever is needed, whatever is necessary, to deliver on that mandate. Undeterred.", **President of the European Central Bank, Christine Lagarde, May 7th 2020.**

Interest Rates & Foreign Exchange Forecasts

10-Yr Gov. Bond Yield (%)	May 8th	3-month	6-month	12-month	Official Rate (%)	May 8th	3-month	6-month	12-month
Germany	-0,54	-0,50	-0,40	-0,30	Euro area	0,00	0,00	0,00	0,00
US	0,69	0,90	1,00	1,20	US	0,25	0,25	0,25	0,25
UK	0,24	0,50	0,55	0,70	UK	0,10	0,10	0,10	0,10
Japan	0,00	-0,10	-0,07	-0,02	Japan	-0,10	-0,10	-0,10	-0,10

Currency	May 8th	3-month	6-month	12-month	May 8th	3-month	6-month	12-month	
EUR/USD	1,08	1,13	1,13	1,15	USD/JPY	107	105	105	104
EUR/GBP	0,87	0,87	0,87	0,87	GBP/USD	1,24	1,30	1,30	1,33
EUR/JPY	115	119	119	119					

Forecasts at end of period

Economic Forecasts

United States	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20a	Q2:20f	Q3:20f	Q4:20f	2020f
Real GDP Growth (YoY) (1)	2,9	2,7	2,3	2,1	2,3	2,3	0,3	-10,9	-7,6	-5,3	-5,9
Real GDP Growth (QoQ saar) (2)	-	3,1	2,0	2,1	2,1	-	-4,8	-36,6	18,2	12,6	-
Private Consumption	3,0	1,1	4,6	3,1	1,8	2,6	-7,6	-43,4	22,1	15,6	-7,8
Government Consumption	1,7	2,9	4,8	1,7	2,5	2,3	0,7	16,7	13,0	5,6	6,1
Investment	4,6	3,2	-1,4	-0,8	-0,6	1,3	-2,6	-30,2	8,9	8,2	-5,9
Residential	-1,5	-1,1	-2,9	4,6	6,5	-1,5	21,0	-38,3	8,2	6,0	-1,3
Non-residential	6,4	4,4	-1,0	-2,3	-2,5	2,1	-8,6	-27,4	9,1	8,7	-7,1
Inventories Contribution	0,1	0,5	-1,0	0,0	-1,2	0,1	-0,6	-1,6	0,6	0,5	-0,6
Net Exports Contribution	-0,4	0,8	-0,8	-0,2	1,9	-0,2	1,8	-2,0	-1,3	-1,0	0,2
Exports	3,0	4,2	-5,7	0,9	2,1	0,0	-8,7	-23,9	5,4	4,7	-6,1
Imports	4,4	-1,5	0,0	1,8	-8,4	1,0	-15,3	-9,2	11,4	9,0	-5,4
Inflation (3)	2,5	1,7	1,8	1,7	2,1	1,8	2,1	0,5	0,6	0,9	1,0

Euro Area	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20f	Q2:20f	Q3:20f	Q4:20f	2020f
Real GDP Growth (YoY)	1,9	1,4	1,2	1,3	1,0	1,2	-3,3	-11,6	-7,9	-5,8	-7,2
Real GDP Growth (QoQ saar)	-	1,9	0,6	1,2	0,4	-	-14,4	-29,7	19,1	10,0	-
Private Consumption	1,4	1,7	0,7	2,0	0,5	1,3	-17,3	-37,8	24,2	15,6	-9,1
Government Consumption	1,1	1,9	1,8	2,3	1,4	1,7	0,9	5,4	4,3	3,8	2,7
Investment	2,4	3,7	21,4	-14,4	18,9	5,5	-29,8	-39,7	36,9	19,9	-10,1
Inventories Contribution	0,0	-1,6	0,4	-0,7	-0,4	-0,5	-0,3	-0,7	0,1	0,3	-0,3
Net Exports Contribution	0,4	1,4	-4,6	3,9	-3,4	-0,5	3,0	-1,1	-1,4	-3,1	-0,3
Exports	3,3	3,8	0,2	2,6	1,2	2,5	-4,6	-29,2	26,4	9,9	-3,5
Imports	2,7	1,1	11,0	-5,4	9,2	3,8	-10,7	-29,8	32,6	17,9	-3,2
Inflation	1,8	1,4	1,4	1,0	1,0	1,2	1,1	0,3	0,5	0,5	0,6

a: Actual, f: Forecasts, 1. Seasonally adjusted YoY growth rate, 2. Seasonally adjusted annualized QoQ growth rate, 3. Year-to-year average % change

12-Month View & Key Factors for Global Markets

	US	Euro Area	Japan	UK
Equity Markets	<ul style="list-style-type: none"> + Massive Fiscal loosening will support the economy but wont avoid a recession - 2020 EPS growth expectations have further room to fall from +2%. Earnings will contract in 2020 - Forget aggressive share buybacks for now due to political pressures - Peaking profit margins - Protectionism and trade wars - P/Es (Valuations) are in line with long-term averages despite P/E contraction of more than 20% since February highs (19x) <p>● Neutral/Positive</p>	<ul style="list-style-type: none"> + Still high equity risk premium relative to other regions + Modest fiscal loosening in 2020 excluding Germany (5% of GDP) - 2020-2021 EPS estimates may turn pessimistic as economic growth fails to pick up - Political uncertainty (Italy, Brexit) could intensify <p>● Neutral</p>	<ul style="list-style-type: none"> + Still aggressive QE and "yield-curve" targeting by the BoJ - Signs of policy fatigue regarding structural reforms and fiscal discipline - Strong appetite for foreign assets - JPY appreciation in a risk-off scenario could hurt exporters <p>● Neutral</p>	<ul style="list-style-type: none"> + 65% of FTSE100 revenues from abroad + Undemanding valuations in relative terms - Elevated Policy uncertainty to remain due to the outcome of the Brexit negotiating process <p>● Neutral/Negative</p>
Government Bonds	<ul style="list-style-type: none"> + Valuations appear rich with term-premium below 0% + Sizeable fiscal deficit + Underlying inflation pressures if Fed seek makeup strategies - Global search for yield by non-US investors continues - Safe haven demand - Fed to remain at ZLB in the course of 2020-2021 - Fed: Unlimited QE purchases <p>▲ Slightly higher yields expected</p>	<ul style="list-style-type: none"> + Valuations appear excessive compared with long-term fundamentals - Political Risks - Fragile growth outlook - Medium-term inflation expectations remain low - ECB QE net purchases - ECB QE "stock" effect <p>▲ Higher yields expected</p>	<ul style="list-style-type: none"> + Sizeable fiscal deficits + Restructuring efforts to be financed by fiscal policy measures - Safe haven demand - Extremely dovish central bank - Yield-targeting of 10-Year JGB at around 0% <p>● Stable yields expected</p>	<ul style="list-style-type: none"> + Elevated Policy uncertainty to remain due to the outcome of the Brexit negotiating process + Inflation expectations could drift higher ahead of EU/UK negotiations - The BoE is expected to remain on hold with risks towards rate cuts - Slowing economic growth post-Brexit <p>▲ Higher yields expected but with Brexit risk premia working on both directions</p>
Foreign Exchange	<ul style="list-style-type: none"> + Safe-haven demand - Fed's interest rate differential disappeared following cuts to 0%-0.25% <p>● Broadly Flat EUR against the USD with high volatility around \$1.10</p>	<ul style="list-style-type: none"> + Reduced short-term tail risks + Higher core bond yields + Current account surplus - Sluggish growth - Deflation concerns - The ECB's monetary policy to remain extra loose (Targeted-LTROs, ABSs, Quantitative Easing) <p>● Broadly Flat EUR against the USD with high volatility around \$1.10</p>	<ul style="list-style-type: none"> + Safe haven demand + More balanced economic growth recovery (long-term) - Inflation is bottoming out - Additional Quantitative Easing by the Bank of Japan if inflation does not approach 2% <p>▲ Slightly higher JPY</p>	<ul style="list-style-type: none"> + Transitions phase negotiations + Valuations appear undemanding with REER 6% below its 15-year average - Sizeable Current account deficit - Elevated Policy uncertainty to remain due to the outcome of the Referendum and the negotiating process <p>▲ Higher GBP expected but with Brexit risk premia working on both directions</p>

Economic Calendar

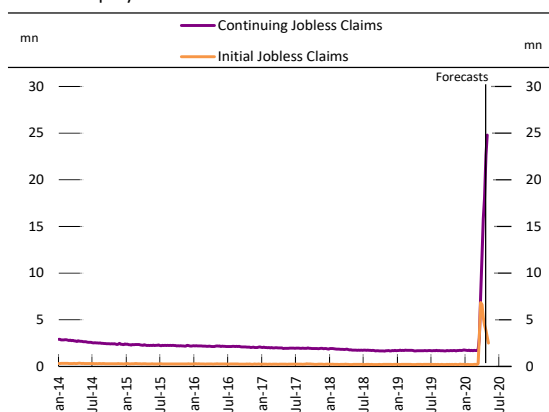
In the US, attention turns to the weekly initial and continuing jobless claims for a more updated view of labor market conditions and economic activity data for April (retail sales, industrial production, homebuilding) for a better assessment of the economic outlook.

In the euro area, retail sales and industrial production for March are released, as well as the 2nd preliminary estimate for Q1 GDP.

In the United Kingdom, attention turns to Q1 GDP, with the monthly GDP estimate for March being especially monitored to assess the early effects from the pandemic.

Finally, in China, economic activity data for April (retail sales, industrial production, fixed assets investment) will be highly anticipated.

US Unemployment Insurance Claims



Source: NBG Research, FRED Economic Data

Economic News Calendar for the period: May 5 - May 18, 2020

Tuesday 5					Wednesday 6					Thursday 7					
US		S	A	P	US		S	A	P	US		S	A	P	
Trade balance (\$bn)	March	-44,2	-44,4	-39,8	ADP Employment Change (k)	April	-20550	-20236	-149	Nonfarm Productivity (QoQ, annualized)	Q1:20	-5,5%	-2,5%	1,2%	
ISM non-manufacturing	April	38,0	41,8	52,5	Markit/CIPS UK Construction PMI	April	21,7	8,2	39,3	Unit labor costs (QoQ, annualized)	Q1:20	4,5%	4,8%	0,9%	
					EURO AREA					Initial Jobless Claims (k)	May 2	3000	3169	3846	
					Retail sales (MoM)	March	-10,6%	-11,2%	0,6%	Continuing Claims (k)	Apr 25	19800	22647	18011	
					Retail sales (YoY)	March	-5,0%	-9,2%	2,5%	UK					
					European Commission publishes Spring Forecasts					BoE announces its intervention rate	May 7	0,10%	0,10%	0,10%	
										BoE Asset Purchase Target (£bn)	May	645	645	645	
										GERMANY					
										Industrial Production (sa, MoM)	March	-7,4%	-9,2%	0,3%	
										Industrial Production (wda, YoY)	March	-8,9%	-11,6%	-1,8%	
										CHINA					
										Exports (YoY)	April	-11,0%	3,5%	-6,6%	
										Imports (YoY)	April	-10,0%	-14,2%	-1,0%	
Friday 8					Monday 11										
US		S	A	P			S	A	P			S	A	P	
Change in Nonfarm Payrolls (k)	April	-22000	-20500	-870											
Change in Private Payrolls (k)	April	-22000	-19520	-842											
Unemployment rate	April	16,0%	14,7%	4,4%											
Average Hourly Earnings MoM	April	0,4%	4,7%	0,5%											
Average Hourly Earnings YoY	April	3,3%	7,9%	3,3%											
Average weekly hours (hrs)	April	33,5	34,2	34,1											
Labor Force Participation Rate	April	61,0%	60,2%	62,7%											
Underemployment Rate	April	..	22,8%	8,7%											
Tuesday 12					Wednesday 13					Thursday 14					
US		S	A	P	UK		S	A	P	US		S	A	P	
CPI (YoY)	April	0,4%	..	1,5%	GDP (QoQ)	Q1:20	-2,5%	..	0,0%	Initial Jobless Claims (k)	May 9	2500	..	3169	
Core CPI (YoY)	April	1,7%	..	2,1%	GDP (YoY)	Q1:20	-2,1%	..	1,1%	Continuing Claims (k)	May 2	24800	..	22647	
JAPAN					Industrial Production (MoM)	March	-5,5%	..	0,1%	EURO AREA					
Coincident Index	March	90,7	..	95,5	Industrial Production (YoY)	March	-9,1%	..	-2,8%	ECB publishes its Economic bulletin					
Leading Index	March	84,3	..	91,7	Private Consumption (QoQ)	Q1:20	-2,8%	..	0,0%						
CHINA					Government Spending QoQ	Q1:20	1,3%	..	1,5%						
CPI (YoY)	April	3,7%	..	4,3%	Gross Fixed Capital Formation	Q1:20	-2,6%	..	-1,2%						
					JAPAN										
					Eco Watchers Current Survey	April	10,0	..	14,2						
					Eco Watchers Outlook Survey	April	16,1	..	18,8						
					EURO AREA										
					Industrial Production (sa, MoM)	March	-12,0%	..	-0,1%						
					Industrial Production (wda, YoY)	March	-11,9%	..	-1,9%						
Friday 15					Monday 18										
US		S	A	P	EURO AREA		S	A	P	US		S	A	P	
Retail Sales Advance MoM	April	-11,7%	..	-8,4%	GDP (QoQ)	Q1:20	-3,8%	..	-3,8%	NAHB housing market confidence index	May	38	..	30	
Retail sales ex-autos (MoM)	April	-8,4%	..	-4,2%	GDP (YoY)	Q1:20	-3,3%	..	-3,3%						
Empire Manufacturing	May	-60,0	..	-78,2	Employment (QoQ)	Q1:20	..	..	0,3%	JAPAN				
Industrial Production (MoM)	April	-12,0%	..	-5,4%	Employment (YoY)	Q1:20	..	..	1,1%	GDP (QoQ)	Q1:20	-1,2%	..	-1,8%
University of Michigan consumer confidence	May	68,0	..	71,8	Trade Balance SA (€ bn)	March	17,0	..	25,8	GDP Private Consumption	Q1:20	-1,6%	..	-2,8%	
Net Long-term TIC Flows (\$ bn)	March	..	..	49,4	CHINA					GDP Business Spending (QoQ)	Q1:20	-1,5%	..	-4,6%
Mortgage delinquencies	Q1:20	..	..	3,77%	Industrial production (YoY)	April	1,5%	..	-1,1%					
Mortgage foreclosures	Q1:20	..	..	0,78%	Retail sales (YoY)	April	-5,9%	..	-15,8%					
GERMANY					Money Supply M0 (YoY)	April	10,0%	..	10,8%						
GDP (QoQ)	Q1:20	-2,3%	..	0,0%	Money Supply M1 (YoY)	April	5,7%	..	5,0%						
GDP (wda, YoY)	Q1:20	-2,0%	..	0,4%	Money Supply M2 (YoY)	April	10,3%	..	10,1%						
					New Yuan Loans (RMB bn)	April	1300,0	..	2850,0						
					Aggregate Financing (RMB bn)	April	2775,0	..	5149,2						

Source: NBG Research, Bloomberg
S: Bloomberg Consensus Analysts Survey, A: Actual Outcome, P: Previous Outcome

Equity Markets (in local currency)

Developed Markets		Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	Emerging Markets		Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)
US	S&P 500	2930	3,5	-9,3	2,1	8,6	MSCI Emerging Markets	53285	-0,5	-13,3	-7,1	
Japan	NIKKEI 225	20179	2,9	-14,7	-5,7	-10,0	MSCI Asia	819	-0,4	-10,3	-3,7	
UK	FTSE 100	5936	3,0	-21,3	-17,6	-22,5	China	82	1,3	-4,7	1,3	
Canada	S&P/TSX	14967	2,4	-12,3	-8,3	-5,9	Korea	606	-0,6	-12,3	-3,7	
Hong Kong	Hang Seng	24230	-1,7	-14,0	-14,4	-20,7	MSCI Latin America	74188	0,6	-25,9	-17,8	
Euro area	EuroStoxx	322	0,1	-20,2	-12,0	-18,5	Brazil	256482	0,1	-29,9	-16,2	
Germany	DAX 30	10904	0,4	-17,7	-8,9	-15,8	Mexico	34972	3,1	-12,8	-12,2	
France	CAC 40	4550	-0,5	-23,9	-14,4	-17,8	MSCI Europe	5023	-1,3	-21,2	-9,0	
Italy	FTSE/MIB	17439	-1,4	-25,8	-16,2	-28,1	Russia	1121	-0,3	-17,7	-1,9	
Spain	IBEX-35	6783	-2,0	-29,0	-25,4	-33,6	Turkey	1221998	-4,8	-18,7	2,5	

World Market Sectors (MSCI Indices)

in US Dollar terms		Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	in local currency		Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)
Energy		125,4	5,8	-36,3	-37,4	-46,8	Energy		132,0	5,8	-34,5	-36,2
Materials		227,7	2,8	-16,3	-6,7	-17,0	Materials		223,3	2,8	-14,3	-5,2
Industrials		217,6	1,6	-21,3	-13,8	-15,6	Industrials		217,1	1,7	-20,6	-13,5
Consumer Discretionary		253,5	3,9	-8,9	-0,9	1,8	Consumer Discretionary		245,9	4,0	-8,4	-0,7
Consumer Staples		227,8	0,5	-9,3	-1,7	5,9	Consumer Staples		231,0	0,7	-8,2	-1,2
Healthcare		274,3	1,8	-1,7	14,9	22,9	Healthcare		272,6	2,0	-1,1	14,9
Financials		89,0	0,4	-29,2	-22,4	-29,1	Financials		90,9	0,4	-27,9	-21,6
IT		316,8	6,4	1,9	21,8	31,9	IT		307,5	6,5	2,1	21,9
Telecoms		72,5	3,1	-6,4	2,2	10,8	Telecoms		76,0	3,1	-6,0	2,3
Utilities		130,6	0,1	-13,0	-2,4	4,9	Utilities		135,6	0,3	-12,0	-1,4

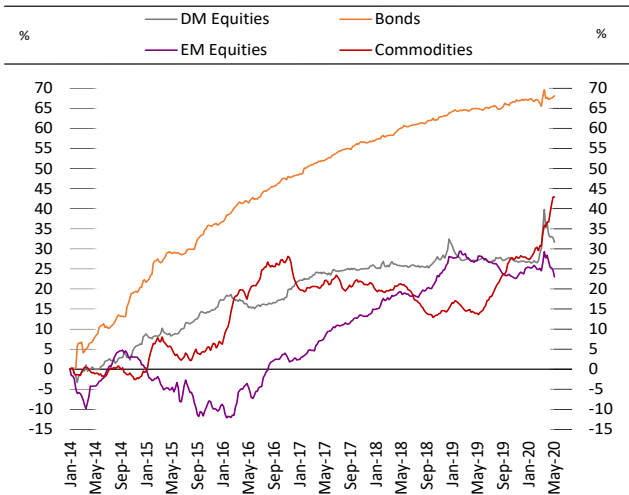
Bond Markets (%)

10-Year Government Bond Yields		Current	Last week	Year Start	One Year Back	10-year average	Government Bond Yield Spreads (in bps)		Current	Last week	Year Start	One Year Back
US		0,69	0,61	1,92	2,44	2,31	US Treasuries 10Y/2Y		53	42	35	18
Germany		-0,54	-0,59	-0,19	-0,05	0,99	US Treasuries 10Y/5Y		35	26	23	20
Japan		0,00	-0,02	-0,01	-0,05	0,43	Bunds 10Y/2Y		24	17	42	58
UK		0,24	0,25	0,82	1,13	1,85	Bunds 10Y/5Y		22	18	29	42
Greece		2,19	2,17	1,47	3,54	9,81	Corporate Bond Spreads (in bps)		Current	Last week	Year Start	One Year Back
Ireland		0,13	0,05	0,12	0,52	3,29	EM Inv. Grade (IG)		299	296	150	164
Italy		1,84	1,76	1,41	2,68	3,08	EM High yield		959	971	494	490
Spain		0,80	0,72	0,47	0,99	2,85	US IG		222	218	101	122
Portugal		0,92	0,82	0,44	1,12	4,60	US High yield		752	770	360	399
US Mortgage Market (1. Fixed-rate Mortgage)		Current	Last week	Year Start	One Year Back	10-year average	Euro area IG		189	183	94	117
30-Year FRM¹ (%)		3,4	3,4	4,0	4,4	4,2	Euro area High Yield		652	635	308	407
vs 30Yr Treasury (bps)		202	215	156	155	122						

Foreign Exchange & Commodities

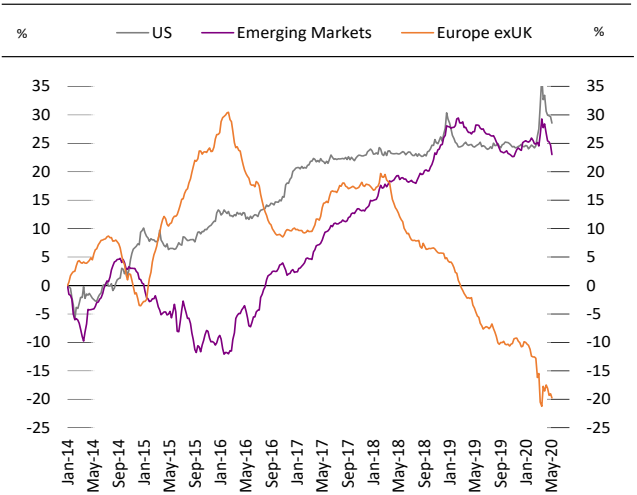
Foreign Exchange		Current	1-week change (%)	1-month change (%)	1-Year change (%)	Year-to-Date change (%)	Commodities		Current	1-week change (%)	1-month change (%)	1-Year change (%)
Euro-based cross rates							Agricultural		299	0,0	-3,0	-4,3
EUR/USD		1,08	-1,3	-0,2	-3,4	-3,3	Energy		178	15,1	-21,4	-64,1
EUR/CHF		1,05	-0,3	-0,3	-7,6	-3,1	West Texas Oil (\$)		24	23,8	-2,4	-60,3
EUR/GBP		0,87	-0,6	-0,3	1,4	3,3	Crude Brent Oil (\$)		29	22,0	2,9	-59,5
EUR/JPY		115,46	-1,6	-2,3	-6,2	-5,1	Industrial Metals		1022	2,0	3,1	-14,8
EUR/NOK		11,07	-2,5	-1,1	12,4	12,5	Precious Metals		1966	1,1	1,9	29,7
EUR/SEK		10,59	-2,1	-3,2	-2,2	0,8	Gold (\$)		1703	0,1	3,4	32,6
EUR/AUD		1,66	-3,0	-4,8	3,4	3,8	Silver (\$)		15	3,4	3,5	4,9
EUR/CAD		1,51	-2,4	-0,8	-0,1	3,6	Baltic Dry Index		514	-16,7	-15,3	-47,2
USD-based cross rates							Baltic Dirty Tanker Index		863	-21,9	-19,4	26,9
USD/CAD		1,39	-1,1	-0,6	3,3	7,2						
USD/AUD		1,53	-1,7	-4,6	7,0	7,4						
USD/JPY		106,65	-0,2	-2,0	-2,8	-1,8						

Global Cross Asset ETFs: Flows as % of AUM



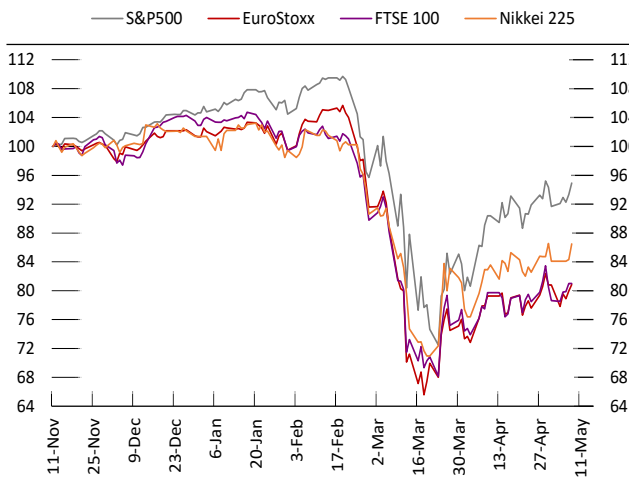
Source: Bloomberg, NBG estimates, Cumulative flows since January 2014, AUM stands for Assets Under Management, Data as of May 8th

Equity ETFs: Flows as % of AUM



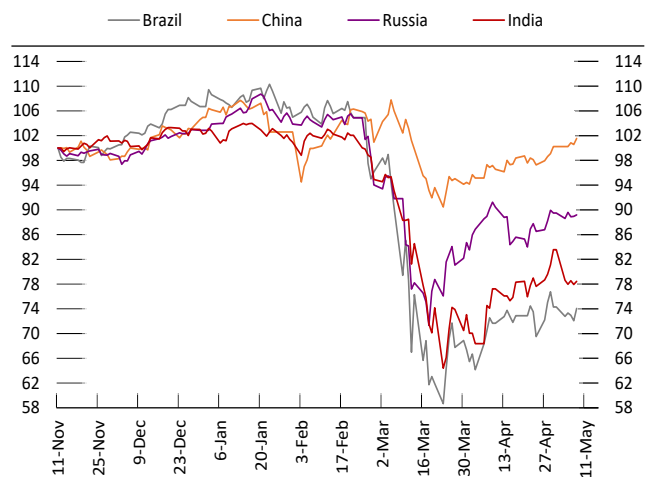
Source: Bloomberg, NBG estimates, Cumulative flows since January 2014, AUM stands for Assets Under Management, Data as of May 8th

Equity Market Performance - G4



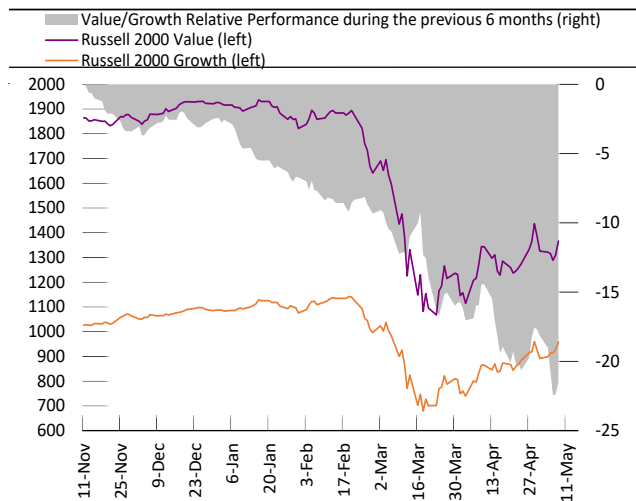
Source: Bloomberg - Data as of May 8th - Rebased @ 100

Equity Market Performance - BRICs



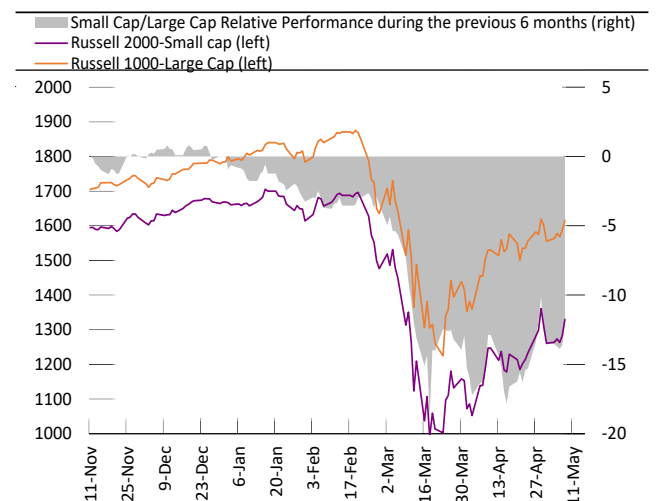
Source: Bloomberg - Data as of May 8th - Rebased @ 100

Russell 2000 Value & Growth Index



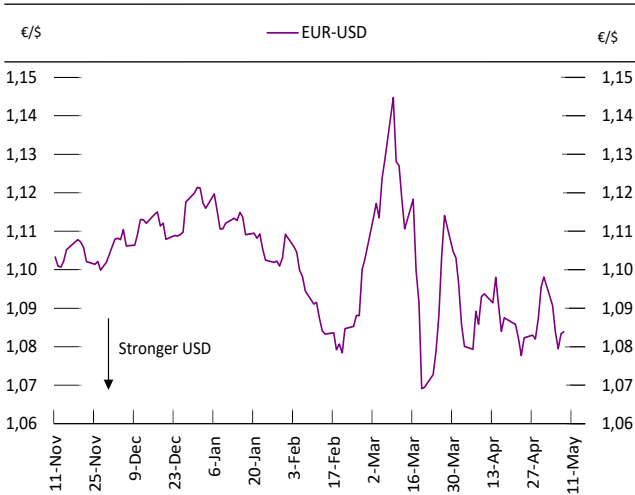
Source: Bloomberg, Data as of May 8th

Russell 2000 & Russell 1000 Index



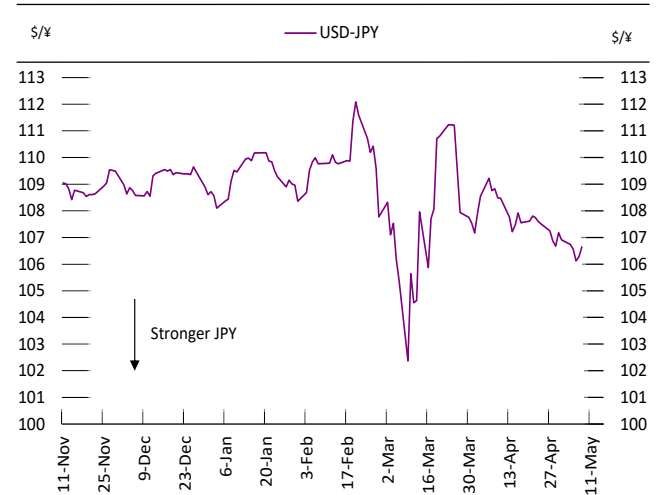
Source: Bloomberg, Data as of May 8th

EUR/USD



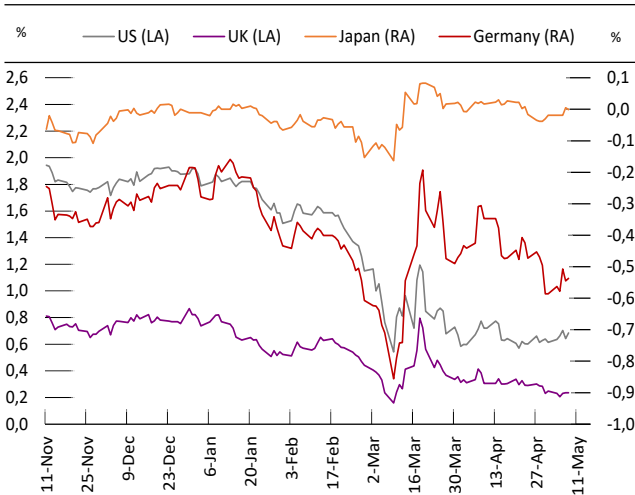
Source: Bloomberg, Data as of May 8th

JPY/USD



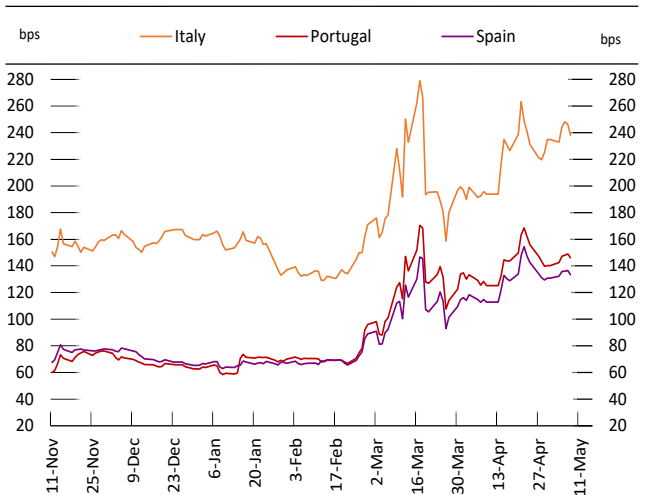
Source: Bloomberg, Data as of May 8th

10- Year Government Bond Yields



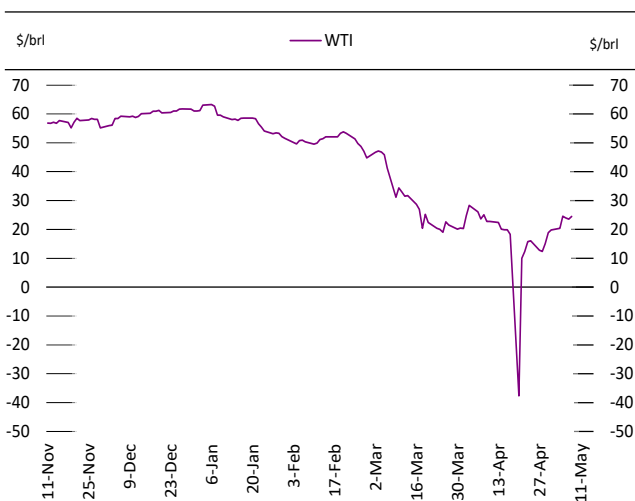
Source: Bloomberg - Data as of May 8th
LA:Left Axis RA:Right Axis

10- Year Government Bond Spreads



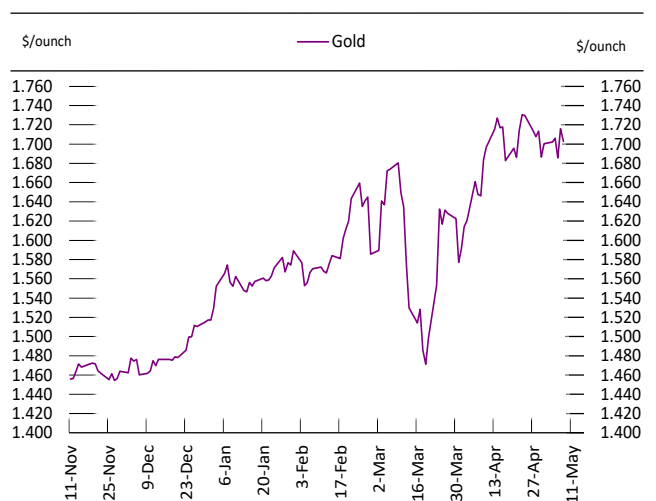
Source: Bloomberg - Data as of May 8th

West Texas Intermediate (\$/bbl)



Source: Bloomberg, Data as of May 8th

Gold (\$/ounce)



Source: Bloomberg, Data as of May 8th

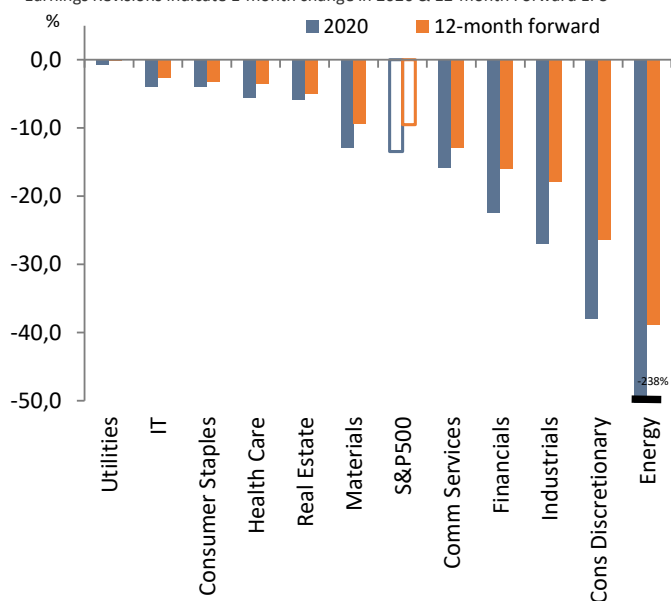
US Sectors Valuation

	Price (\$)			EPS Growth (%)		Dividend Yield (%)		P/E Ratio				P/BV Ratio			
	8/5/2020	% Weekly Change	%YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
S&P500	2930	3,5	-9,3	1,2	-20,2	1,8	2,0	20,2	22,7	21,0	15,2	3,6	3,2	3,2	2,5
Energy	295	8,3	-35,4	-28,8	N/A	3,9	5,8	21,8	-215,1	-126,6	19,3	1,6	1,2	1,2	1,7
Materials	330	3,4	-14,4	-15,6	-20,5	2,1	2,5	20,2	22,4	20,6	14,7	2,4	2,2	2,2	2,5
Financials															
Diversified Financials	612	1,2	-17,6	1,6	-27,5	1,4	1,9	16,2	18,2	16,8	13,8	1,9	1,5	1,5	1,5
Banks	235	-0,1	-38,1	9,0	-52,5	2,6	4,4	12,3	16,4	14,2	10,9	1,4	0,8	0,8	1,0
Insurance	333	3,0	-24,5	15,8	-3,1	2,2	3,1	13,4	10,4	10,1	10,8	1,5	1,1	1,1	1,1
Real Estate	207	1,5	-14,0	1,9	-5,1	3,1	3,6	21,0	19,0	18,5	18,2	3,7	3,2	3,3	3,0
Industrials															
Capital Goods	549	0,9	-24,4	-7,0	-26,1	1,9	2,3	21,2	21,3	19,5	15,6	5,5	3,7	3,6	3,4
Transportation	616	1,5	-21,4	6,6	N/A	1,9	2,2	14,7	2370,8	1540,1	15,3	4,3	3,6	3,5	3,4
Commercial Services	317	4,3	-8,1	12,8	-10,0	1,3	1,5	28,5	28,2	27,0	20,0	6,0	4,9	4,8	3,5
Consumer Discretionary															
Retailing	2661	4,6	8,7	4,2	-22,2	0,8	0,7	33,3	46,0	40,8	21,8	13,3	12,6	11,8	6,5
Consumer Services	990	2,5	-24,0	5,0	N/A	2,1	2,0	23,9	92,9	68,4	19,4	14,8	13,2	13,4	6,6
Consumer Durables	289	4,5	-22,4	0,4	-26,6	1,4	1,9	19,2	20,4	19,0	16,8	4,0	2,9	3,0	3,2
Automobiles and parts	76	8,9	-36,2	-16,4	N/A	4,2	1,7	8,5	-38,0	-21,4	8,0	1,4	1,0	1,0	1,7
IT															
Technology	1585	6,9	-0,6	2,6	0,8	1,3	1,5	21,6	20,5	19,5	12,7	9,7	10,7	11,0	3,8
Software & Services	2459	6,4	7,0	11,1	6,1	1,0	1,0	29,3	28,6	27,4	17,5	7,9	7,7	7,4	5,2
Semiconductors	1225	7,2	-1,3	-12,2	-0,2	1,8	2,0	18,9	18,6	17,6	13,9	5,5	5,0	4,9	3,1
Communication Services	174	3,7	-4,1	3,0	-13,3	1,2	1,2	21,8	23,4	21,9	17,4	3,5	3,1	3,0	2,9
Media	643	4,4	-1,4	3,8	-13,8	0,4	0,4	27,4	30,2	27,4	20,2	4,2	3,8	3,6	3,2
Consumer Staples															
Food & Staples Retailing	479	0,8	-3,6	2,9	-2,8	1,7	1,8	21,5	21,7	21,2	16,2	4,6	4,2	4,1	3,1
Food Beverage & Tobacco	634	1,2	-11,3	-1,7	-4,4	3,3	3,8	19,7	18,3	17,8	17,5	5,3	4,6	4,5	4,9
Household Goods	709	0,3	-4,7	6,6	5,1	2,3	2,5	25,8	23,3	22,9	19,3	8,9	8,3	8,2	5,1
Health Care															
Pharmaceuticals	982	0,7	-0,3	9,8	0,8	2,1	2,3	15,9	15,6	15,0	14,5	5,5	4,6	4,4	3,5
Healthcare Equipment	1306	3,0	-5,2	10,3	-2,9	1,0	1,1	20,4	19,7	18,5	15,2	3,7	3,2	3,0	2,6
Utilities	285	0,5	-13,2	4,9	3,4	3,1	3,7	20,7	17,5	17,2	15,8	2,2	1,8	1,8	1,6

Source Factset, Blue box indicates a value more than +2standard deviation from average, light blue a value more than +1standard deviation from average. Orange box indicates a value less than -2standard deviation from average, light orange a value less than -1standard deviation from average

1-month revisions to 2020 & 12-month Forward EPS

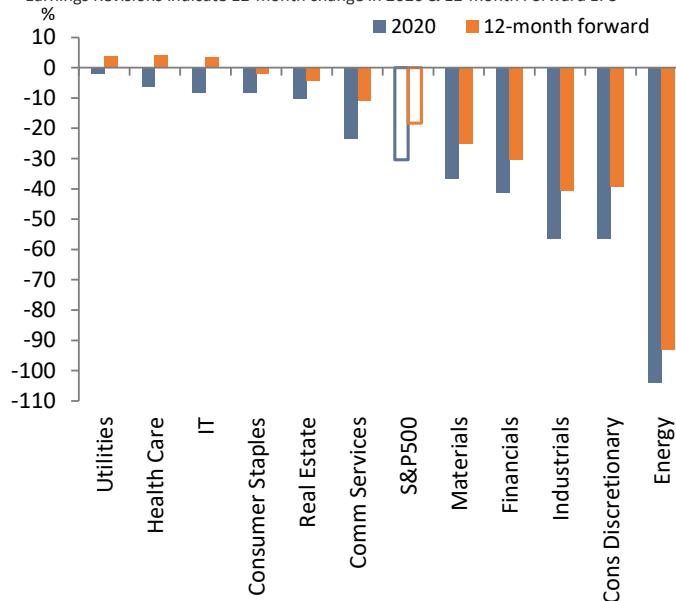
Earnings Revisions indicate 1-month change in 2020 & 12-month Forward EPS



Source: Factset, Data as of May 8th
12-month forward EPS are 65% of 2020 EPS and 35% of 2021 EPS

12-month revisions to 2020 & 12-month Forward EPS

Earnings Revisions indicate 12-month change in 2020 & 12-month Forward EPS



Source: Factset, Data as of May 8th
12-month forward EPS are 65% of 2020 EPS and 35% of 2021 EPS

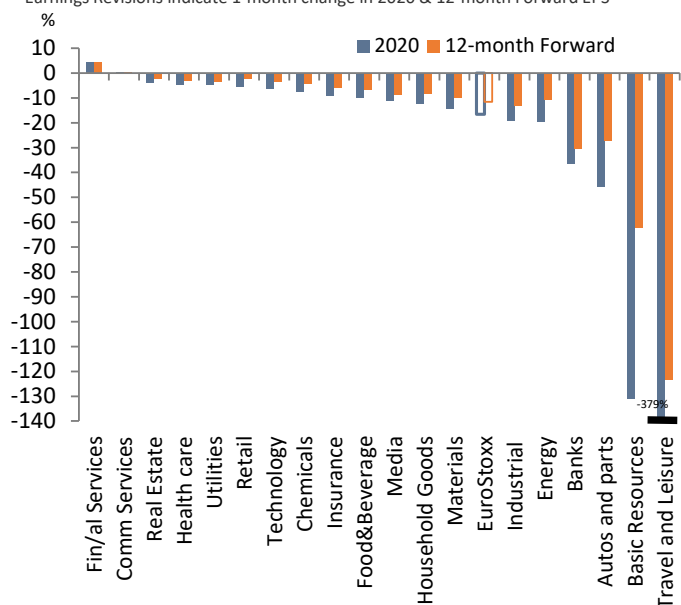
Euro Area Sectors Valuation

	Price (€)			EPS Growth (%)		Dividend Yield (%)		P/E Ratio				P/BV Ratio			
	8/5/2020	% Weekly Change	%YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
EuroStoxx	322	0,1	-20,2	2,4	-30,3	3,1	3,1	16,8	19,0	17,3	13,2	1,7	1,4	1,3	1,4
Energy	221	-0,3	-32,7	-9,8	-61,1	4,9	7,4	13,8	23,5	19,6	11,5	1,3	0,9	0,9	1,1
Materials	367	2,1	-24,7	14,1	-30,7	3,2	3,8	15,4	16,9	15,3	14,2	1,9	1,4	1,4	1,4
Basic Resources	154	0,2	-24,5	-61,6	N/A	3,3	3,0	19,3	-90,3	-53,9	14,9	0,8	0,6	0,6	0,8
Chemicals	1011	1,9	-14,0	-13,3	-15,3	2,7	3,0	21,8	22,5	21,0	15,1	2,1	1,8	1,8	2,2
Financials															
Fin/ai Services	464	2,5	-7,8	25,4	-21,2	2,4	2,8	15,8	18,1	17,9	14,2	1,7	1,3	1,3	1,3
Banks	54	-2,5	-44,4	-1,3	-50,5	5,7	4,6	9,2	10,3	9,3	9,4	0,6	0,4	0,4	0,7
Insurance	213	-3,7	-29,6	13,0	-9,7	4,8	7,1	11,0	8,5	8,1	9,2	1,0	0,7	0,7	0,9
Real Estate	189	1,1	-23,1	0,1	-2,4	4,2	4,9	19,1	15,1	14,7	16,7	1,0	0,8	0,8	1,0
Industrial	700	0,3	-25,6	11,4	-30,9	2,3	2,5	20,4	21,7	19,4	15,3	3,2	2,3	2,3	2,3
Consumer Discretionary															
Media	177	0,2	-21,0	5,4	-14,9	2,9	3,2	17,2	15,8	14,9	15,2	2,4	1,8	1,8	1,8
Retail	550	2,5	-8,6	2,8	-16,2	2,5	2,4	25,2	27,5	25,3	19,1	4,3	3,3	3,2	3,1
Automobiles and parts	344	-0,2	-29,3	-12,2	-69,8	3,7	1,8	8,7	20,0	15,7	8,3	0,9	0,6	0,6	1,0
Travel and Leisure	152	-3,7	-29,0	-10,1	N/A	2,2	0,7	16,8	-22,0	-8,4	13,6	2,0	1,5	1,5	2,0
Technology	573	1,9	-5,4	5,8	-8,7	1,2	0,9	26,9	26,9	24,7	18,2	4,2	3,5	3,4	3,0
Communication Services	252	0,8	-12,9	-14,3	11,7	4,2	4,9	17,5	13,6	13,1	14,1	1,9	1,5	1,5	1,8
Consumer Staples															
Food&Beverage	456	-1,8	-23,8	16,8	-25,6	2,1	2,3	20,5	20,9	19,4	18,5	2,7	1,9	1,8	2,6
Household Goods	933	-1,0	-12,9	6,9	-20,0	1,6	1,6	29,6	31,7	29,3	20,9	6,1	4,9	4,7	3,8
Health care	823	0,0	-5,4	7,3	-0,6	2,1	2,3	20,1	18,5	17,7	15,2	2,4	2,1	2,1	2,1
Utilities	305	-0,3	-12,0	57,3	0,2	4,5	5,4	16,2	14,0	13,6	12,6	1,6	1,3	1,3	1,1

Source Factset, Blue box indicates a value more than +2standard deviation from average, light blue a value more than +1standard deviation from average. Orange box indicates a value less than -2standard deviation from average, light orange a value less than -1standard deviation from average

1-month revisions to 2020 & 12-month Forward EPS

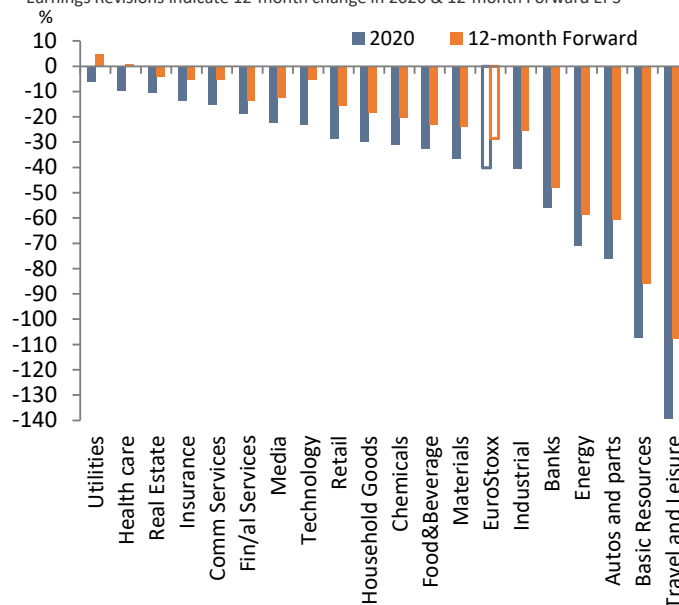
Earnings Revisions indicate 1-month change in 2020 & 12-month Forward EPS



Source: Factset, Data as of May 8th
12-month forward EPS are 65% of 2020 EPS and 35% of 2021 EPS

12-month revisions to 2020 & 12-month Forward EPS

Earnings Revisions indicate 12-month change in 2020 & 12-month Forward EPS



Source: Factset, Data as of May 8th
12-month forward EPS are 65% of 2020 EPS and 35% of 2021 EPS

DISCLOSURES:

This report has been produced by the Economic Research Division of the National Bank of Greece, which is regulated by the Bank of Greece, and is provided solely as a sheer reference for the information of experienced and sophisticated investors who are expected and considered to be fully able to make their own investment decisions without reliance on its contents, i.e. only after effecting their own independent enquiry from sources of the investors' sole choice. The information contained in this report does not constitute the provision of investment advice and under no circumstances is it to be used or considered as an offer or an invitation to buy or sell or a solicitation of an offer or invitation to buy or sell or enter into any agreement with respect to any security, product, service or investment. No information or opinion contained in this report shall constitute any representation or warranty as to future performance of any financial instrument, credit, currency rate or other market or economic measure. Past performance is not necessarily a reliable guide to future performance. National Bank of Greece and/or its affiliates shall not be liable in any matter whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance on or usage of this report and accepts no legal responsibility to any investor who directly or indirectly receives this report. The final investment decision must be made by the investor and the responsibility for the investment must be taken by the investor.

Any data provided in this report has been obtained from sources believed to be reliable but has not been independently verified. Because of the possibility of error on the part of such sources, National Bank of Greece does not guarantee the accuracy, timeliness or usefulness of any information. Information and opinions contained in this report are subject to change without notice and there is no obligation to update the information and opinions contained in this report. The National Bank of Greece and its affiliate companies, its representatives, its managers and/or its personnel or other persons related to it, accept no responsibility, or liability as to the accuracy, or completeness of the information contained in this report, or for any loss in general arising from any use of this report including investment decisions based on this report. This report does not constitute investment research or a research recommendation and as such it has not been prepared in accordance with legal requirements designed to promote investment research independence. This report does not purport to contain all the information that a prospective investor may require. Recipients of this report should independently evaluate particular information and opinions and seek the advice of their own professional and financial advisers in relation to any investment, financial, legal, business, tax, accounting or regulatory issues before making any investment or entering into any transaction in relation to information and opinions discussed herein.

National Bank of Greece has prepared and published this report wholly independently of any of its affiliates and thus any commitments, views, outlook, ratings or target prices expressed in these reports may differ substantially from any similar reports issued by affiliates which may be based upon different sources and methodologies.

This report is not directed to, or intended for distribution to use or use by, any person or entity that is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to any law, regulation or rule.

This report is protected under intellectual property laws and may not be altered, reproduced or redistributed, or passed on directly or indirectly, to any other party, in whole or in part, without the prior written consent of National Bank of Greece.

ANALYST CERTIFICATION:

The research analyst denoted by an "AC" on page 1 holds the certificate (type Δ) of the Hellenic Capital Market Commission/Bank of Greece which allows her/him to conduct market analysis and reporting and hereby certifies that all of the views expressed in this report accurately reflect his or her personal views solely, about any and all of the subject issues. Further, each of these individuals also certifies that no part of any of the report analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this report. Also, all opinions and estimates are subject to change without notice and there is no obligation for update.