#### **Global Markets Roundup**



National Bank of Greece | Economic Research Division | May 26, 2020

Corporate credit spreads have tightened significantly, despite record-high levels of debt and increased insolvency risks

- The US corporate business debt-to-GDP ratio has increased rapidly over the past decade, surpassing its historical high in Q1:2020, to circa 75% of 2019 US GDP (euro area business debt-to-GDP is at circa 110%). Moreover, alternative indicators of the leverage of businesses were approaching their highest level in 20 years at the beginning of 2020. According to data from the provider Refinitiv, the ratio of Net Debt to EBITDA for publicly traded US non-financial/non-energy companies was circa 2x as of Q1:2020 from 1.5x in 2015. The following factors could pose a risk to these firms and their stakeholders: i) a historically high level of business debt; ii) tight bank lending standards; and iii) a higher cost of debt (both bank and market-based), particularly among the riskiest firms.
- The interest coverage ratio of US corporate businesses remained high in Q1:2020, suggesting room for maneuver vis-à-vis interest repayments from internal resources. However, as the distribution of COVID-19 economic effects remains uncertain, earnings declines will imply significantly lower interest coverage ratios, which could trigger an increase in firms' default risk. Note that S&P500 bottom-line earnings declined by 14% YoY in Q1:2020, while analyst consensus estimates for full-year 2020 EPS growth are circa -20%. For euro area businesses, consensus estimates for full-year 2020 EPS growth are circa -26%. Finally, Investment Grade and Speculative Grade cost of debt has increased materially.
- Data from the April 2020 Federal Reserve SLOOS indicate that a significant share of US banks tightened standards on commercial and industrial loans in the first quarter of 2020 (net percentage of reporting banks is 40%). While bank loans represent only 15% of US corporate debt, this development, if sustained, could pose additional headwinds to the external financing process of US firms. On the other side of the Atlantic, euro area banks' credit standards for loans to enterprises tightened only modestly in Q1:2020 (net percentage of reporting banks at +4% following +1% in Q4:2019). Note that the degree of tightening was very modest compared with 2008 (+60%) and 2012 (+30%), albeit euro area banks appeared reluctant to fully evaluate the effects of COVID-19 relative to companies' credit risk.
- The aggressive monetary policy response, particularly in the US, has lessened dislocations in credit markets, partially offsetting the March sell-off. Note that the Federal Reserve, via its corporate credit facilities, could purchase single-name bonds, as well as shares in Investment Grade ETFs and a limited amount of shares in High Yield ETFs with a potential firepower of up to \$750bn both in the primary and in the secondary market [actual purchases so far in the secondary market: \$0bn]. On the other side of Atlantic, the ECB has stepped up its investment-grade rated corporate bond purchases in the past few weeks by EUR 5bn. This brings its total purchases to EUR 27bn Year-to-Date, as the PEPP (announced on March 18th with a maximum amount of EUR 750bn) opens the door for circa EUR 130bn of additional corporate bond purchases based on the historical CSPP (Corporate Sector Purchase Programme) /APP (Asset Purchase Programme) allocation key, on top of the EUR 200bn actual purchases since the CSPP was introduced. All in, US IG corporate bond spreads have recovered a significant portion of their Covid-19 related widening, with the riskier spectrum still lagging (see graph below). On a weekly basis, credit spreads rallied due to (cont'd on page 2)

Ilias Tsirigotakis<sup>AC</sup> Head of Global Markets Research 210-3341517 tsirigotakis.hlias@nbg.gr

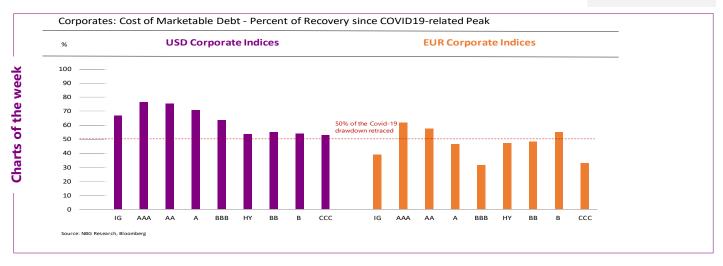
> Panagiotis Bakalis 210-3341545 mpakalis.pan@nbg.gr

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





... investors' risk-on mode and higher oil prices, with USD Investment Grade down by 23 bps to 197 bps (EUR: down by 12 bps to 184 bps) and USD Speculative Grade down by 72 bps to 706 bps (EUR: down by 43 bps to 616 bps).

### US housing market declined sharply in April due to the lockdown

· The latest housing market data suggest that activity in the sector slowed sharply in April. Specifically, housing starts declined by an unprecedented 30.2% mom (-29.8% yoy) in April, following a -18.6% mom in March (+6.4% yoy), to 891k, below consensus estimates for 900k. On a similar note, building permits fell by 20.8% mom (-16.7% yoy) from -5.7% mom (+5.3% yoy) in March (consensus for 1000k). Furthermore, existing home sales fell by 17.8% mom (-17.2% yoy) in April, from -8.5% mom (+0.8% yoy) in March, to 4.33 mn (on an annualized basis), largely in line with consensus estimates. The weak outcomes in April (as well as in March) were due to the Covid-19 lockdown effective as of mid-March . Thus, as the restrictive measures are gradually lifted, housing activity is expected to resume. In the event, the National Association of Home Builders (NAHB) survey index – that captures homebuilders' confidence for new home sales - rose in May, by 7 pts to 37 in May, although it remains at relatively low levels, weighed down by the ongoing uncertainty in the labor market (see below) and supply-side challenges (e.g. constrained availability of building materials).

### A large number of US citizens applied for unemployment insurance for a 9<sup>th</sup> consecutive week

• US initial jobless claims were 2.4 mn in the week ending May 15th, largely in line with consensus estimates. The cumulative figure since the week ending March 20th reached a staggering 38.6 mn, in view of the restrictive measures to contain the spread of Covid-19 (thus 4.3 mn on average per week in that period | previously the weekly record high was 0.7 mn in 1982). More importantly, continuing claims reached 25.1 mn in the week ending May 8th or 16% of the total workforce. Recall, however, that caution is warranted in applying a direct analogy of that ratio to the official unemployment rate as estimated by the Bureau of Labor Statistics in its monthly Employment Situation report, in view of definitional differences as well as other comparability issues related to the distinct reference periods, methodologies, and reporting practices of the two data sources. In the event, the respective report for May -- due on June 5th -- will be closely monitored.

# Euro area PMIs recovered slightly in May, albeit remaining well below the expansion/contraction threshold of 50

• Euro area PMIs improved in May, on the back of the gradual easing of the Covid-19 lockdown. Specifically, the composite index was 30.5 in May from 13.6 in April (and 29.7 in March). Although the latest outcome modestly exceeded consensus estimates for 27.0, it remains well below the expansion/contraction threshold of 50.0 and thus is indicative of declining economic activity. Recall also that the recent readings are the weakest on record (since July 1998) by a wide margin, with the previous low at 36.2 in February 2009. The services PMI under-performed, coming out at 28.7 versus 12.0 in April, with hotels, restaurants, as well as travel and tourism industries, remaining paralyzed. The manufacturing PMI stood at a higher, but still subdued, 39.5 from 33.4 in April, with the output component (the part of the

manufacturing survey which is incorporated in the calculation of the headline composite index) at 35.4 (18.1 in April). Widespread employment reductions were again cited in both sectors, with the respective component of the composite PMI rising only modestly (+4 pts to 37.4). At the same time, average prices charged, remained depressed in view of weak demand, with the respective PMI component at the lowest since 2009 in services and since 2016 in manufacturing, as firms continued to offer discounts to support sales (that development was also aided by lower input costs, linked to reduced wage burdens and low oil prices). Consumer confidence also improved, by 3.2 pts, albeit to a still weak -18.8 in May (average since 2001: -11.5). Overall, the latest data support the view for a sharp fall in GDP during Q2, of close to 9% on a quarterly basis.

Regarding performance by country, in France, the composite PMI was 30.5 in May, compared with 11.1 in April (28.9 in March). In Germany, the composite PMI was 31.4 in May, compared with 17.4 in April. On a similar note, the IFO business survey partly recovered, rising by 5.3 pts to 79.5, albeit remaining at relatively weak levels (average of 97.3 since 2005). The improvement in May was solely due to the expectations component (expectations for business conditions in the next six months | +10.7 pts to 80.1), while the assessment of current conditions deteriorated slightly further (-0.5 pts to 78.9). An improvement occurred in all surveyed sectors (manufacturing, services, trade, construction), albeit business confidence remained subdued in all cases.

### UK PMIs improved in May, albeit still pointing to reduced business activity

UK business confidence partly improved in May, albeit remaining particularly depressed, in view of the ongoing public health crisis. 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 3<sup>rd</sup>) 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. The PMI in the dominant services sector (80% of UK GDP) rose to 27.8 compared with 13.4 in April (and 34.5 in March). The recent outcomes are by far the lowest on record (the survey started in 1996), with many travel, tourism and leisure firms reporting no activity at all. According to Markit, circa 55% of respondents cited a drop in business activity compared with April and only 12% cited a rise (mainly linked to greater demand for some technology services). The manufacturing PMI came out at 40.6 in May, up from 32.6 in April (the output component was 34.9). Around 54% of respondents cited a decrease in output compared with April and 24% reported an expansion (mostly linked to products related to healthcare). Notably, among manufacturing industries, those related to the automotive supply chain reported the sharpest drop in demand. Overall, the composite PMI improved to 28.9 in May from 13.8 in April, although remaining well below the expansion/contraction threshold of 50.0 and signaling only a modest easing in the recent downturn in economic activity. Note also that the latest readings underperform, by a wide margin, the previous record low (38.1 in November 2008).



#### **Equities**

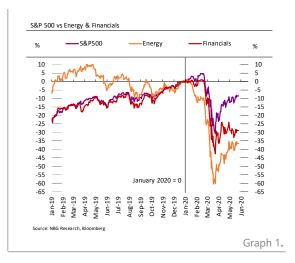
 Global equity markets rose in the past week, as optimism over a medical breakthrough and the gradual lifting of social distancing measures more than offset renewed US-China trade tensions. Overall, the MSCI ACWI ended the week up by +2.8% (-13% ytd), with Developed Markets (+3.2% wow | -12% ytd) overperforming their Emerging Markets peers (+0.5% wow | -19% ytd). The S&P500 rose by 3.2% wow (-9% ytd), reaching the highest level since March 6th on Wednesday (2972). Regarding sectors, Autos (+14.2% wow) and Energy (+6.1% wow) overperformed, with the latter being supported by higher oil prices. On the other side of the Atlantic, the Eurostoxx rose by 4.4% wow, and by a further 1.3% on Monday. Cyclical sectors such as travel & leisure (+6% wow) and Autos (+6% wow) outperformed in the past week, on hopes that the easing of Covid-19 lockdowns will lead to a faster economic recovery. In Japan, the Nikkei 225 rose by 1.8% wow and by a further 1.7% on Monday after the BoJ launched a new lending program totalling ¥30tn to support small businesses which are struggling due to the coronavirus. In China, the CSI 300 declined by 2.3% wow after the authorities proposed imposing national security laws on Hong Kong, raising prospects of fresh protests.

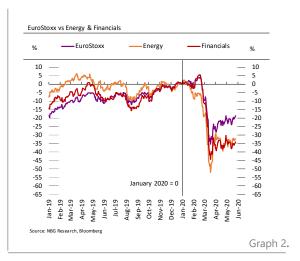
#### **Fixed Income**

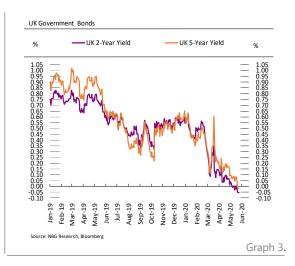
 Government bond yields were mixed in the past week. Specifically, the US 10-year yield ended the week stable at 0.66% and the 2-year yield rose by 2 bps to 0.17%. More importantly, the UK 10-year yield declined by 6 bps wow to 0.17% (0.16% historic low in March), as financial markets are pricing in negative interest rates by the BoE by the end of the year (41% probability vs 10% in the past week). As a result, yields on two- and five-year government bonds, that are the most sensitive to monetary policy, recorded all-time lows (-5 bps wow to -0.05% and -10 bps wow to -0.02%, respectively). In addition, note that at Wednesday's auction, £3.75bn of gilts maturing in July 2023 were sold at an average yield below zero (-0.003%) for the first time ever. In Germany, the 10year yield rose by 4 bps to -0.49%. Periphery bond yield spreads declined heavily in the past week, after a European Union proposal for a recovery fund that could provide grants to help the hardest -hit economies due to Covid-19. Specifically, in Italy, the 10-year spread declined by -31 bps to 208 bps; in Spain, it fell by 18 bps to 111 bps; and in Portugal, by -19 bps to 122 bps. Corporate bond spreads narrowed significantly in the past week, especially in the High Yield spectrum due to risk-on. Indeed, EUR HY bond spreads decreased by 43 bps to 616 bps and their US counterparts narrowed by 72 bps to 706 bps (due to higher oil prices). In the investment grade spectrum, EUR spreads fell by 12 bps to 184 bps and USD spreads declined by 23 bps to 197 bps.

#### **FX and Commodities**

- In foreign exchange markets, the euro rose against the US Dollar in the past week (+0.7% to \$1.090), following the proposal by France and Germany of a €500bn Recovery Fund to offer grants to regions and sectors hardest hit by the coronavirus crisis. However, on Friday, the US dollar rose (+0.4% against the euro | +0.5% against a basket of trade-weighted currencies-DXY), supported by safe-haven demand. The British Pound recorded small losses in the past week (-0.2% wow against the euro to €/0.896), despite the weaker-than-expected economic data and the risk of sub-zero interest rates.
- In commodities, oil prices rose in the past week, due to the continued decline in US oil inventories, and the easing of lockdown measures that boost hopes for a recovery in fuel demand. Specifically, US oil inventories declined for a second consecutive week by 5 million barrels to 526 million barrels for the week ending May 15th. Overall, Brent ended the week up by 14% to \$33.6/barrel (-45% ytd), and the WTI rose by 9.6% to \$34.5/barrel (-48% ytd), both at a 2-month high.







Quote of the week: "We are in the midst of an economic downturn without modern precedent. It was sudden, and it is severe... While the burden is widespread, it is not evenly spread... Those taking the brunt of the fallout are those least able to bear it", Fed Chair, Jerome Powell, May 22<sup>nd</sup> 2020.



0-Yr Gov. Bond Yield (%)	May 22nd	3-month	6-month	12-month	Official Rate (%)	May 22nd	3-month	6-month	12-month
Germany	-0.49	-0.50	-0.40	-0.30	Euro area	0.00	0.00	0.00	0.00
US	0.66	0.90	1.00	1.20	US	0.25	0.25	0.25	0.25
UK	0.17	0.32	0.36	0.54	UK	0.10	0.10	0.08	0.08
Japan	0.00	-0.10	-0.07	-0.02	Japan	-0.10	-0.10	-0.10	-0.10
Currency	May 22nd	3-month	6-month	12-month		May 22nd	3-month	6-month	12-month
EUR/USD	1.09	1.13	1.13	1.15	USD/JPY	107	105	105	103
EUR/GBP	0.89	0.88	0.87	0.87	GBP/USD	1.22	1.28	1.30	1.32
EUR/JPY	117	119	118	118					

United States	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20a	Q2:20f	Q3:20f	Q4:20f	2020
Real GDP Growth (YoY) (1)	2,9	2,7	2,3	2,1	2,3	2,3	0,3	-11,3	-8,2	-5,7	-6,2
Real GDP Growth (QoQ saar) (2)	-	3,1	2,0	2,1	2,1	-	-4,8	-37,6	17,1	13,8	-
Private Consumption	3,0	1,1	4,6	3,1	1,8	2,6	-7,6	-44,7	22,2	17,2	-8,1
Government Consumption	1,7	2,9	4,8	1,7	2,5	2,3	0,7	4,3	4,5	4,5	2,8
Investment	4,6	3,2	-1,4	-0,8	-0,6	1,3	-2,6	-28,8	9,0	8,1	-5,5
Residential	-1,5	-1,1	-2,9	4,6	6,5	-1,5	21,0	-37,3	10,4	4,7	-0,8
Non-residential	6,4	4,4	-1,0	-2,3	-2,5	2,1	-8,6	-25,9	8,6	8,9	-6,8
Inventories Contribution	0,1	0,5	-1,0	0,0	-1,2	0,1	-0,6	-1,2	0,8	0,6	-0,5
Net Exports Contribution	-0,4	0,8	-0,8	-0,2	1,9	-0,2	1,8	-0,6	-0,9	-0,7	0,5
Exports	3,0	4,2	-5,7	0,9	2,1	0,0	-8,7	-14,5	7,9	5,9	-3,7
Imports	4,4	-1,5	0,0	1,8	-8,4	1,0	-15,3	-8,4	10,9	8,1	-5,3
nflation (3)	2,5	1,7	1,8	1,7	2,1	1,8	2,1	0,2	0,5	0,7	0,9
Euro Area	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20f	Q2:20f	Q3:20f	Q4:20f	2020
Real GDP Growth (YoY)	1,9	1,4	1,2	1,3	1,0	1,2	-3,2	-11,8	-8,8	-6,4	-7,6
Real GDP Growth (QoQ saar)	-	1,9	0,6	1,2	0,4	-	-14,2	-30,7	15,9	11,1	-
Private Consumption	1,4	1,7	0,7	2,0	0,5	1,3	-17,5	-38,1	21,2	17,0	-9,5
Government Consumption	1,1	1,9	1,8	2,3	1,4	1,7	0,9	7,1	5,9	3,4	3,2
Investment	2,4	3,7	21,4	-14,4	18,9	5,5	-28,6	-44,1	27,3	18,9	-11,
Inventories Contribution	0,0	-1,6	0,4	-0,7	-0,4	-0,5	-0,2	-0,6	0,3	0,3	-0,3
Net Exports Contribution	0,4	1,4	-4,6	3,9	-3,4	-0,5	3,0	-1,1	-1,8	-2,3	-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	33,7	16,0	-3,2
Inflation	1,8	1,4	1,4	1,0	1,0	1,2	1,1	0,4	0,5	0,6	0,7

US	Euro Area	Japan	UK
+ 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 aggresive 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)	+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	+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	+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
Neutral/Positive	Neutral	Neutral	Neutral/Negative
+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	+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	+Sizeable fiscal deficits +Restructuring efforts to be financed by fiscal policy measures - Safe haven demand - Extremely dowish central bank - Yield-targeting of 10-Year JGB at around 0%	+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
▲ Slightly higher yields expected	▲ Higher yields expected	Stable yields expected	- Higher yields expected but with Brexit risk premia working on both directions
+Safe-haven demand - Fed's interest rate differential disappeared following cuts to 0%-0.25%	+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)	+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%	+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



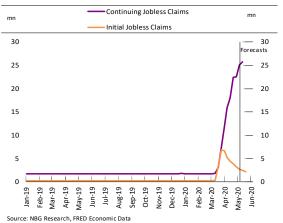
#### **Economic Calendar**

In the US, the 2nd estimate for Q1 GDP is released. Moreover, the ISM manufacturing survey for May and the weekly initial and continuing jobless claims will be closely monitored for a more updated view of economic conditions.

In the euro area, attention turns to April's money supply data, particularly regarding credit to the private sector from commercial banks. Furthermore, May's flash estimate for CPI is released. According to consensus, the annual growth for the headline index will near zero, mostly due to reduced energy prices (alongside weak overall demand).

In China, the manufacturing PMIs for May will be closely monitored for a better assessment of the economic recovery post-lockdowns.

#### US Unemployment Insurance Claims



Economic News Calendar for the period: May 19 - June 1, 2020

Second parties (c)	Tuesday 19					Wednesday 20					Thursday 21				
April   1000 + 1074   1356   1000   1074   1356   1000   1074   1356   1000   1075	US					US		S	Α	Р					
March   April   Apri	Housing starts (k)	April	900 -	891	1276	FOMC Minutes	April 29				Initial Jobless Claims (k)	May 16	2400	- 2438	2687
Outmorphognet Read	Building permits (k)	April	1000 +	1074	1356										
SEMANAY   STATE   ST	UK											May	40.0	- 39.8	36.1
Processing	ILO Unemployment Rate	March	4.3% +	3.9%	4.0%		April	1.4%	1.4%	1.6%		Mav	-40 O	421	-56.6
Wednesday 25   See	GERMANY											,			
Non-continuent   Non-	ZEW survey current situation					Consumer Confidence Indicator	May	-23.8	+ -18.8	-22.0		April	4.22	+ 4.33	5.27
March   September	ZEW survey expectations	May	30.0 +	51.0	28.2										
March   May   24.0 + 27.8   124												May	37.2	40.6	32.6
March												ividy			
Marchard   1												May	24.0	+ 27.8	13.4
Property   Property															
Imports y 27   File															
Friedry 22															
March   Marc												April	-13.2%	+ -7.2%	-5.0%
Name															
Reservation   Section												May	38.0	<u> </u>	33.4
APAN	UK											,			
Pirot   Open   April   Open   Open		April	-15.0% -	-15.2%	-3.8%							May			12.0
Core CPI (Vor) - ex. Fresh Food   April   -0.1%   -0.2%   0.4%    FO-Current Assessment   May   8.00   -78.9   78.5   78.5	JAPAN										Markit Eurozone Composite PMI	May	27.0	+ 30.5	13.6
Tuesday 26   State Consumer   C	CPI (YoY)										1				
Wednesday 27   Thursday 28   Thursday 29	Core CPI (YoY) - ex. Fresh Food	April	-0.1% -	-0.2%	0.4%		May				1				
Friedrag 28  Friedrag 28  S A P SC ass/Shiller house price edge 20 (vn)  March 3,40% 3,47% edge 27  S A P SC ass/Shiller house price edge 20 (vn)  March 3,40% 3,47% edge 27  March 3,40% 3,47% edge 27  S A P SC ass/Shiller house price edge 20 (vn)  March 3,40% 3,47% edge 27  March 3,40% 3,47% edge 27  S A P SC ass/Shiller house price edge 20 (vn)  March 3,40% 3,47% edge 27  March 3,40% 3,47% edge 27  S A P SC GDP (GoC, annualized)	Core CPI (YoY) - ex. Fresh Food	April	0.2%	0.2%	0.6%						1				
File	and Energy	April	0.270	0.270	0.076	Private Consumption (QoQ)	Q1:20	-2.0%	3.2%	0.0%					
See   See   A						Government Spending QoQ	Q1:20	0.6%	- 0.2%	0.3%					
See   See   A															
See   See   A															
See   See   A															
Septending   Sep	Tuesday 26					Wednesday 27					Thursday 28				
Personal Consumption   Q1:20															
May   87.0   86.9	US		S	Α	P			S	Α	P	us			Α	
Continuing Claims (k) May 16 25750 25073 cm 25073 cm 25073 cm 25074 cm	S&P Case/Shiller house price	March		Α				S	Α	P	US GDP (QoQ, annualized)		-4.8%	A 	-4.8%
Pending home sales (MoM)	S&P Case/Shiller house price index 20 (YoY)		3.40%	<b>A</b> 	3.47%			S	Α	P	US GDP (QoQ, annualized) Personal Consumption	Q1:20	-4.8% -7.5%	A 	-4.8% -7.6%
Pending home sales (MoM)	S&P Case/Shiller house price index 20 (YoY) New home sales (k)		3.40%	 	3.47%			S	А	P	GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k)	Q1:20 May 23	-4.8% -7.5% 2100	 	-4.8% -7.6% 2438
Durable goods orders ex transportation (MoM)   EURO AREA   Economic Confidence   May   70.7     67.0	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480		3.47% 627			S	A	Р	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k)	Q1:20 May 23	-4.8% -7.5% 2100 25750	A   	-4.8% -7.6% 2438 25073
Friday 29   S   A   P   EURO AREA   Economic Confidence   May   70.7     67.0	S&P Case/Shiller house price index 20 (YoY) New home sales (k)	April	3.40% 480	 	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k)	Q1:20 May 23 May 16	-4.8% -7.5% 2100 25750	A   	-4.8% -7.6% 2438 25073
Friday 29   S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	Α	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM)	Q1:20 May 23 May 16 April	-4.8% -7.5% 2100 25750 -15.0%		-4.8% -7.6% 2438 25073 -20.8%
Economic Confidence   May   70.7     67.0	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM)	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM)	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A  	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
S	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer	April	3.40% 480	A	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
Personal income (MoM)	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence	April	3.40% 480	A	3.47% 627			S	A	P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
Personal spending (MoM)	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence	April	3.40% 480 87.0		3.47% 627 86.9						US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence	Q1:20 May 23 May 16 April April	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
April   0.5%   1.3%   M3 money supply (YoY)   April   8.1%   7.5%   CHINA   Manufacturing PMI   May   51.0   50.8   M3 money supply (YoY)   April   8.1%   7.5%   CHINA   Manufacturing PMI   May   51.0   50.8   M3 money supply (YoY)   April   6.6%   -4.6%   4.	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence	April May	3.40% 480 87.0		3.47% 627 86.9			S		P	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence	Q1:20 May 23 May 16 April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0%		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4%
Manufacturing PMI	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM)	April May	3.40% 480 87.0	 	3.47% 627 86.9 P -2.0%	CPI Estimate YoY		<b>S</b> 0.1%	A	<b>P</b> 0.4%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence	Q1:20 May 23 May 16 April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
APAN	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM)	April May	3.40% 480 87.0 5 -6.5% -12.8%	 	3.47% 627 86.9 P -2.0% -7.5%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending	Q1:20 May 23 May 16 April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% -70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
obless Rate	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) PCE Deflator (YoY)	April April April April April	3.40% 480 87.0 \$ -6.5% -12.8% 0.5%	A	3.47% 627 86.9 <b>P</b> -2.0% -7.5% 1.3%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA	Q1:20 May 23 May 16 April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
tetail sales (MoM)	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY)	April April April April April	3.40% 480 87.0 \$ -6.5% -12.8% 0.5%	A	3.47% 627 86.9 <b>P</b> -2.0% -7.5% 1.3%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
Agril -11.2%4.7% andustrial Production (MoM) April -5.6%3.7% andustrial Production (MoM) April -10.6%5.2% construction Order YoY April14.3% EERMANY april -10.5%4.0%	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) JAPAN	April May	3.40% 480 87.0 5 -6.5% -12.8% 0.5% 1.1%	A	3.47% 627 86.9 P -2.0% -7.5% 1.3%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
ndustrial Production (MoM) April -5.6%3.7%  ndustrial Production (YoY) April -10.6%5.2%  Construction Orders YoY April14.3%  SERMANY  letail sales (MoM) April -10.5%4.0%	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate	April April April April April April	\$ -6.5% -12.8% 0.5% 1.1% 2.7%	A	3.47% 627 86.9 P -2.0% -7.5% 1.3% 1.7% 2.5%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
ndustrial Production (YoY)	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate Retail sales (MoM)	April April April April April April April April April	3.40% 480 87.0 5 -6.5% -12.8% 0.5% 1.1% 2.7% -6.9%	A	3.47% 627 86.9 P -2.0% -7.5% 1.3% 1.7%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
Construction Orders YoY April14.3%  SERMANY  Letail sales (MoM) April -10.5%4.0%	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate	April April April April April April April April April	\$ -6.5% -12.8% 0.5% 1.1% -6.9% -6.11.2%	A	3.47% 627 86.9 P-2.0% -7.5% 1.3% 1.7% 2.5% -4.6%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
SERMANY Retail sales (MoM) April -10.5%4.0%	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate Retail sales (MoM)	April	\$ -6.5% -12.8% 0.5% 1.1% -6.9% -6.11.2%	A	3.47% 627 86.9 P-2.0% -7.5% 1.3% 1.7% 2.5% -4.6%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
SERMANY Letail sales (MoM) April -10.5%4.0%	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) JAPAN Jobless Rate Retail sales (MoM) Retail sales (MoM) Retail sales (YoY)	April	3.40% 480 87.0 \$ -6.5% -12.8% 0.5% 1.1% 2.7% -6.9% -11.2% -5.6%	A	3.47% 627 86.9 P -2.0% -7.5% 1.3% 1.7% 2.5% -4.6% -3.7%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM)	April	3.40% 480 87.0 \$ -6.5% -12.8% 0.5% 1.1% 2.7% -6.9% -11.2% -5.6%	A	3.47% 627 86.9 P P -2.0% 1.3% 1.7% 2.5% -4.6% -4.7% -5.2%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAM Jobless Rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY)	April	3.40% 480 87.0 \$ -6.5% -12.8% 0.5% 1.1% 2.7% -6.9% -11.2% -5.6%	A	3.47% 627 86.9 P P -2.0% 1.3% 1.7% 2.5% -4.6% -4.7% -5.2%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0
	S&P Case/Shiller house price index 20 (YoY) New home sales (k) Conference board consumer confidence  Friday 29 US Personal income (MoM) Personal spending (MoM) PCE Deflator (YoY) PCE Core Deflator (YoY) JAPAN Jobless Rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY	April	\$ -6.5% -12.8% 0.5% 1.1% 2.7% -6.9% -11.2% -10.6%	A	3.47% 627 86.9 P P -2.0% -7.5% 1.3% 1.7% 2.5% -4.6% -3.7% -5.2% -14.3%	CPI Estimate YoY Core CPI (YoY)	May	\$ 0.1% 0.8%	A	P 0.4% 0.9%	US GDP (QoQ, annualized) Personal Consumption Initial Jobless Claims (k) Continuing Claims (k) Pending home sales (MoM) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) EURO AREA Economic Confidence  Monday 1 US ISM Manufacturing Construction spending CHINA Manufacturing PMI	May 23 May 16 April April April May	-4.8% -7.5% 2100 25750 -15.0% -19.8% -15.0% 70.7		-4.8% -7.6% 2438 25073 -20.8% -14.7% -0.4% 67.0

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



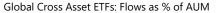
Davidson ad B	la alcada	Current	1-week	Year-to-Date	1-Year	2-year	Paramain a Manhata	Current	1-week	Year-to-Date	1-Year
Developed N	iarkets	Level	change (%)	change (%)	change (%)	change (%)	Emerging Markets	Level	change (%)	change (%)	change (%)
US	S&P 500	2955	3,2	-8,5	4,7	8,1	MSCI Emerging Markets	52821	0,0	-14,1	-4,3
Japan	NIKKEI 225	20388	1,8	-13,8	-3,6	-10,1	MSCI Asia	807	-1,0	-11,7	-0,8
UK	FTSE 100	5993	3,3	-20,5	-17,1	-23,0	China	79	-2,6	-7,4	6,6
Canada	S&P/TSX	14914	1,9	-12,6	-7,7	-7,6	Korea	613	2,5	-11,3	-1,1
<b>Hong Kong</b>	Hang Seng	22930	-3,6	-18,7	-15,9	-25,2	MSCI Latin America	73988	4,1	-26,1	-16,8
Euro area	EuroStoxx	322	4,4	-20,2	-11,2	-18,0	Brazil	262490	6,1	-28,3	-13,5
Germany	DAX 30	11074	5,8	-16,4	-7,4	-14,7	Mexico	33269	0,4	-17,1	-15,4
France	CAC 40	4445	3,9	-25,7	-15,8	-20,1	MSCI Europe	5171	4,8	-18,9	-7,8
Italy	FTSE/MIB	17316	2,8	-26,3	-14,0	-24,4	Russia	1159	5,5	-14,9	-1,9
Spain	IBEX-35	6698	3,4	-29,9	-26,5	-33,2	Turkey	1281809	3,7	-14,7	11,6

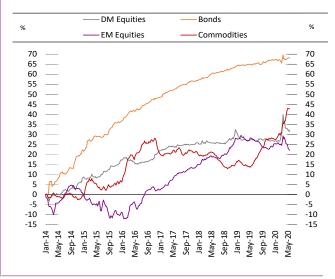
in US Dollar terms	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	in local currency	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)
Energy	123,5	5,4	-37,3	-36,8	-48,0	Energy	130,5	5,1	-35,3	-35,7
Materials	230,8	4,3	-15,2	-3,4	-17,1	Materials	227,1	4,0	-12,9	-2,1
Industrials	219,7	5,7	-20,5	-11,1	-15,5	Industrials	219,8	5,5	-19,6	-10,8
Consumer Discretionary	258,6	4,2	-7,1	4,6	2,8	<b>Consumer Discretionary</b>	251,3	4,1	-6,4	4,8
Consumer Staples	225,0	0,5	-10,4	-4,2	4,2	Consumer Staples	228,9	0,3	-9,0	-3,8
Healthcare	276,1	0,2	-1,1	15,0	20,8	Healthcare	274,8	0,0	-0,3	15,1
Financials	86,9	3,4	-30,9	-22,4	-30,4	Financials	88,9	3,2	-29,4	-21,6
IT	323,0	3,6	3,9	28,5	33,6	IT	313,7	3,6	4,1	28,6
Telecoms	74,2	3,7	-4,2	5,8	14,4	Telecoms	77,8	3,6	-3,7	5,9
Utilities	130,2	2,8	-13,3	-5,6	5,2	Utilities	135,4	2,6	-12,1	-4,8

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	0,66	0,64	1,92	2,32	2,29	US Treasuries 10Y/2Y	49	50	35	17
Germany	-0,49	-0,53	-0,19	-0,12	0,98	US Treasuries 10Y/5Y	33	34	23	20
Japan	0,00	0,00	-0,01	-0,06	0,43	Bunds 10Y/2Y	19	20	42	52
UK	0,17	0,23	0,82	0,95	1,84	Bunds 10Y/5Y	19	20	29	40
Greece	1,71	2,07	1,47	3,43	9,79					
Ireland	0,13	0,10	0,12	0,51	3,28	Corporate Bond Spreads	Current	Lastinasli	Year Start	One Year
Italy	1,59	1,86	1,41	2,64	3,07	(in bps)	Current	Last week	rear Start	Back
Spain	0,63	0,76	0,47	0,85	2,83	EM Inv. Grade (IG)	267	287	150	172
Portugal	0,73	0,88	0,44	1,01	4,59	EM High yield	855	924	494	513
						US IG	197	220	101	128
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	706	778	360	422
30-Year FRM <sup>1</sup> (%)	3,4	3,4	4,0	4,3	4,2	Euro area IG	184	196	94	126
vs 30Yr Treasury (bps)	204	208	156	158	123	Euro area High Yield	616	659	308	408

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										
EUR/USD	1,09	0,7	0,7	-2,5	-2,8	Agricultural	295	0,2	-2,5	-10,4
EUR/CHF	1,06	0,7	0,7	-5,6	-2,4	Energy	202	9,1	41,4	-57,4
EUR/GBP	0,90	0,2	2,1	1,4	5,9	West Texas Oil (\$)	34	14,0	173,2	-41,9
EUR/JPY	117,34	1,2	0,6	-4,3	-3,6	Crude brent Oil (\$)	35	9,6	77,8	-49,0
EUR/NOK	10,90	-1,6	-6,5	11,3	10,7	Industrial Metals	1026	2,5	1,3	-13,2
EUR/SEK	10,54	-1,1	-3,6	-2,0	0,3	<b>Precious Metals</b>	2013	-0,5	1,2	32,9
EUR/AUD	1,67	-1,2	-2,6	2,9	4,4	Gold (\$)	1735	-0,5	1,2	35,2
EUR/CAD	1,53	0,0	-0,4	1,4	4,8	Silver (\$)	17	3,6	14,0	17,9
<b>USD-based cross rates</b>						Baltic Dry Index	498	22,4	-28,2	-53,4
USD/CAD	1,40	-0,8	-1,2	3,9	7,7	<b>Baltic Dirty Tanker Index</b>	735	-13,7	-51,8	10,4
USD/AUD	1,53	-1,9	-3,3	5,6	7,3					
USD/JPY	107,64	0,5	-0,1	-1,8	-0,9					

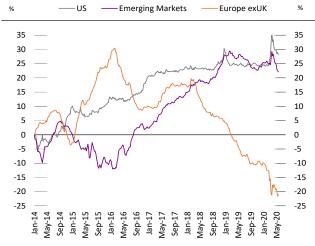






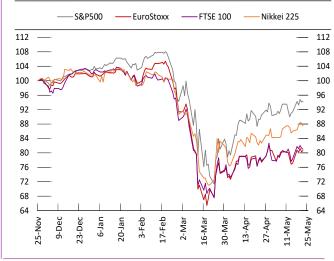
Source: Bloomberg, NBG estimates, Cumulative flows since January 2014, AUM stands for Assets Under Management, Data as of May 22<sup>nd</sup>

# Equity ETFs: Flows as % of AUM



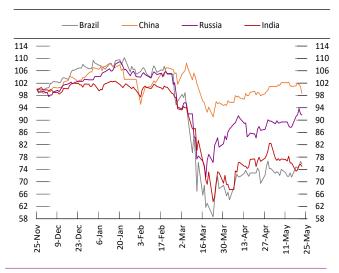
Source: Bloomberg, NBG estimates, Cumulative flows since January 2014, AUM stands for Assets Under Management, Data as of May  $22^{\rm nd}$ 

#### Equity Market Performance - G4



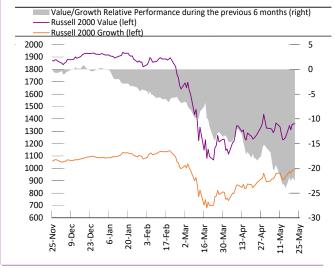
Source: Bloomberg - Data as of May 22<sup>nd</sup> - Rebased @ 100

#### **Equity Market Performance - BRICs**



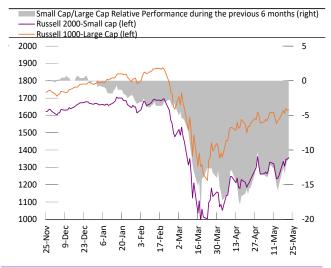
Source: Bloomberg - Data as of May 22<sup>nd</sup> – Rebased @ 100

#### Russell 2000 Value & Growth Index



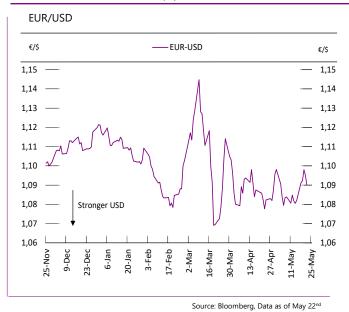
Source: Bloomberg, Data as of May 22<sup>nd</sup>

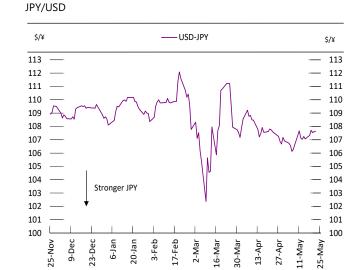
#### Russell 2000 & Russell 1000 Index



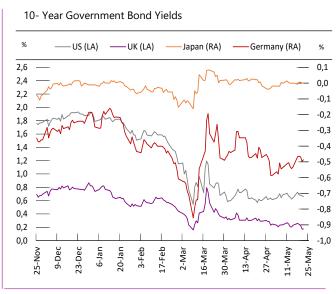
Source: Bloomberg, Data as of May 22<sup>nd</sup>

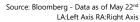




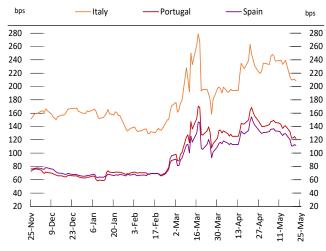


Source: Bloomberg, Data as of May 22<sup>nd</sup>



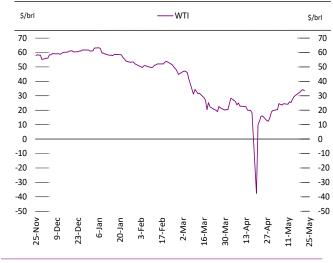


# 10- Year Government Bond Spreads



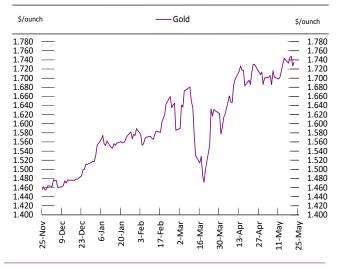
Source: Bloomberg - Data as of May  $22^{nd}$ 

#### West Texas Intermediate (\$/brl)



Source: Bloomberg, Data as of May 22<sup>nd</sup>

#### Gold (\$/ounch)



Source: Bloomberg, Data as of May  $22^{nd}$ 

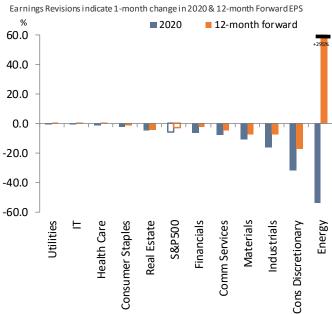


#### **US Sectors Valuation**

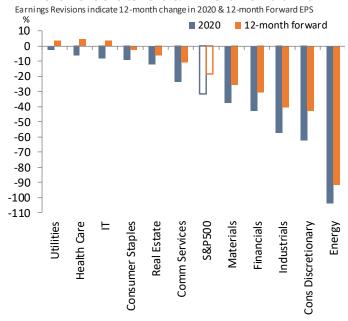
		Price (\$)		EPS Gro	owth (%)	Dividend	Yield (%)		P/	E Ratio			P/BV R	atio	
	22/5/20	% Weekly Change	%YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
S&P500	2955	3.2	-8.5	1.2	-21.4	1.8	2.0	20.3	23.4	21.3	15.2	3.7	3.3	3.2	2.5
Energy	289	6.1	-36.7	-29.0	N/A	3.8	5.9	21.8	N/A	N/A	18.5	1.6	1.2	1.3	1.7
Materials	333	4.0	-13.7	-15.6	-21.5	2.1	2.4	20.2	22.8	20.8	14.8	2.4	2.2	2.2	2.5
Financials															
Diversified Financials	607	3.0	-18.2	1.6	-29.6	1.4	1.9	16.2	18.6	16.9	13.9	1.9	1.5	1.5	1.5
Banks	226	5.3	-40.6	9.0	-53.3	2.6	4.6	12.3	16.0		10.9	1.4	0.8	0.8	1.0
Insurance	337	5.4	-23.5	15.8	-5.5	2.2	3.1	13.4	10.8	10.4	10.9	1.5	1.1	1.1	1.1
Real Estate	202	5.6	-15.8	1.9	-7.1	3.1	3.6	21.0	19.1	18.5	18.2	3.7	3.1	3.1	3.0
Industrials															
Capital Goods	552	7.2	-24.0	-7.0	-27.2	1.9	2.3	21.2	21.7	19.6	15.6	5.5	3.7	3.6	3.4
Transportation	631	9.2	-19.6	6.6	N/A	1.9	2.2	14.7	N/A	N/A	12.5	4.3	3.7	3.7	3.4
Commercial Services	318	3.1	-8.0	12.8	-10.5	1.3	1.5	28.5	28.4	27.1	20.1	6.0	4.9	4.8	3.5
Consumer Discretionary															
Retailing	2750	2.6	12.3	4.2	-26.0	0.8	0.6	33.3	50.0	43.2	21.9	13.3	12.7	11.8	6.5
Consumer Services	1009	6.8	-22.6	5.1	-95.6	2.1	1.9	24.0	418.4	265.3	20.0	16.3	18.5	19.3	7.1
Consumer Durables	297	9.7	-20.2	-0.4	-29.2	1.5	1.8	19.7	22.4	20.6	16.9	4.1	3.2	3.3	3.2
Automobiles and parts	82	14.2	-31.6	-16.4	N/A	4.2	1.6	8.5	N/A	N/A	7.9	1.4	1.1	1.1	1.7
IT															
Technology	1625	3.9	2.0	2.6	0.5	1.3	1.4	21.6	21.1	20.0	12.7	9.7	11.2	11.4	3.9
Software & Services	2480	2.3	7.9	11.1	5.8	1.0	1.0	29.3	29.0	27.6	17.5	7.9	8.0	7.6	5.2
Semiconductors	1267	5.5	2.0	-12.2	0.3	1.8	1.9	18.9	19.1	18.1	14.0	5.5	5.2	5.1	3.1
Communication Services	180	4.5	-1.0	3.0	-13.7	1.2	1.2	21.8	24.3	22.5	17.4	3.5	3.2	3.1	2.9
Media	672	5.1	3.1	3.8	-14.6	0.4	0.4	27.4	31.8	28.6	20.2	4.2	3.9	3.7	3.2
Consumer Staples															
Food & Staples Retailing	476	0.5	-4.3	2.9	-4.4	1.7	1.8	21.5	21.9	21.3	16.3	4.6	4.4	4.2	3.2
Food Beverage & Tobacco	625	0.6	-12.6	-1.7	-4.7	3.3	3.8	19.7	18.1	17.5	17.6	5.3	4.6	4.5	4.9
Household Goods	698	-0.6	-6.1	6.6	4.6	2.3	2.5	25.8	23.1	22.6	19.4	8.9	8.1	8.0	5.1
Health Care															
Pharmaceuticals	987	-2.2	0.1	11.0	3.2	2.2	2.4	16.1	15.5	14.9	14.5	6.3	5.3	5.0	3.8
Healthcare Equipment	1301	1.0	-5.6	9.9	-6.3	1.0	1.1	20.7	20.6	19.2	15.4	3.8	3.3	3.1	2.6
Utilities	286	3.0	-13.0	4.9	3.1	3.1	3.7	20.7	17.6	17.2	15.9	2.2	1.9	1.8	1.6

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

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



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



Source: Factset, Data as of May 22<sup>nd</sup> 12-month forward EPS are 61% of 2020 EPS and 39% of 2021 EPS

Source: Factset, Data as of May 22<sup>nd</sup>

12-month forward EPS are 61% of 2020 EPS and 39% of 2021 EPS

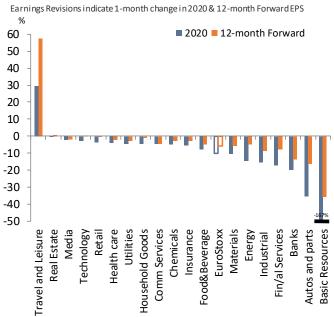


#### **Euro Area Sectors Valuation**

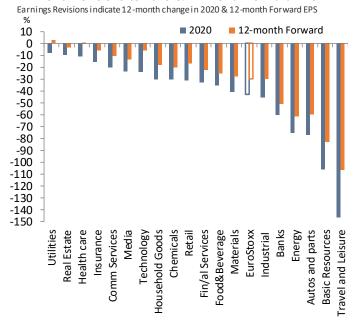
		Price (€)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/	BV Ratio	
	22/5/20	% Weekly Char	ige %YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
EuroStoxx	322	4.4	-20.2	2.4	-33.5	3.1	3.0	16.8	19.9	17.7	13.2	1.7	1.4	1.3	1.4
Energy	219	3.9	-33.2	-9.8	-66.6	4.9	7.4	13.8	27.2	21.5	11.6	1.3	0.9	0.9	1.1
Materials	366	5.9	-25.0	14.1	-35.9	3.2	3.7	15.4	18.2	16.1	14.2	1.9	1.4	1.4	1.4
Basic Resources	145	4.4	-29.2	-61.6	N/A	3.3	3.1	19.3	N/A	N/A	14.6	0.8	0.6	0.6	8.0
Chemicals	1011	5.1	-14.0	-13.3	-15.3	2.7	3.1	21.8	22.5	20.9	15.2	2.1	1.8	1.8	2.2
Financials															
Fin/al Services	464	3.0	-8.0	25.4	-34.1	2.4	2.7	15.8	21.6	19.8	14.2	1.7	1.3	1.2	1.3
Banks	52	4.8	-45.8	-1.3	-55.0	5.7	3.9	9.2	11.1	9.7	9.4	0.6	0.3	0.3	0.7
Insurance	208	4.7	-31.3	13.0	-11.0	4.8	7.2	11.0	8.4	7.9	9.2	1.0	0.7	0.7	0.9
Real Estate	184	1.8	-25.3	0.1	-2.7	4.2	5.0	19.1	14.7		16.8	1.0	0.8	0.8	1.0
Industrial	716	6.5	-23.9	11.4	-37.0	2.3	2.3	20.4	24.4	21.1	15.3	3.2	2.4	2.3	2.3
Consumer Discretionary															
Media	175	2.0	-21.8	5.4	-15.9	2.9	3.2	17.2	15.9	14.9	15.2	2.4	1.8	1.8	1.8
Retail	548	3.2	-8.9	2.8	-19.3	2.5	2.3	25.2	28.4	25.7	19.1	4.3	3.3	3.2	3.1
Automobiles and parts	338	6.9	-30.4	-12.2	-71.9	3.7	1.8	8.7	21.2	15.9	8.3	0.9	0.6	0.6	1.0
Travel and Leisure	153	6.0	-28.6	-10.1	N/A	2.2	0.7	16.8	N/A	N/A	13.6	2.0	1.5	1.5	2.0
Technology	587	6.0	-3.2	5.8	-9.6	1.2	0.9	26.9	27.8	25.3	18.3	4.2	3.6	3.5	3.0
Communication Services	248	-0.3	-14.2	-14.3	5.8	4.2	4.9	17.5	14.1	13.6	14.1	1.9	1.5	1.5	1.8
Consumer Staples															
Food&Beverage	442	2.3	-26.1	16.8	-28.8	2.1	2.2	20.5	21.2	19.3	18.5	2.7	1.8	1.8	2.6
Household Goods	930	3.9	-13.1	6.9	-20.6	1.6	1.6	29.6	31.8	29.1	20.9	6.1	4.9	4.7	3.8
Health care	827	2.2	-4.9	7.3	-2.5	2.1	2.2	20.1	19.0	18.0	15.2	2.4	2.2	2.1	2.1
Utilities	310	5.4	-10.7	57.3	-1.5	4.5	5.2	16.2	14.5	13.9	12.7	1.6	1.3	1.3	1.1

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

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



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



Source: Factset, Data as of May 22<sup>nd</sup> 12-month forward EPS are 61% of 2020 EPS and 39% of 2021 EPS

Source: Factset, Data as of May 22<sup>nd</sup> 12-month forward EPS are 61% of 2020 EPS and 39% 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  $\Delta$ ) 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.