Global Markets Roundup



National Bank of Greece | Economic Research Division | November 24, 2020

Intra-euro area government bond spreads continue to narrow, reflecting expectations of additional ECB measures in December and defying elevated uncertainty vis-à-vis euro area growth prospects

- Euro area business leading indicators revealed on Monday further signs of contraction in economic activity. The euro area composite index decreased to a six-month low of 45.1 in November a tad lower than consensus expectations of 45.5 from 52 in October (see Economics).
- The manufacturing PMI fell by 1.2 pts to a three-month low of 53.6, remaining though above the contraction/expansion threshold of 50 as many businesses remain open and foreign demand (US, Asia) has held well. On a more negative note, the services PMI index declined by 5.6 pts to a sixmonth low of 41.3 as consumer-driven activity (travel, leisure, hospitality outlets) has been essentially halted in major European economies.
- While the hit to economic activity appears less severe compared with the Spring (see graph below) as lockdown measures are less harsh, Europe's second wave of Covid-19 is still underway and the timeline for the roll-back of containment measures remains unclear. As a result, economic activity is expected to contract in Q4:2020 and early in 2021.
- We expect real GDP growth of -3.4% qoq (-7.7% yoy) in Q4:2020 followed by +0.8% qoq (-3.4% yoy) in Q1:2021. The encouraging vaccine developments (Pfizer, Moderna) point to upside growth risks in Q2-Q4:2021. However, caution is warranted until, *inter alia*, the vaccine is fully rolled out and Europe achieves the desired threshold of herd immunity against Covid-19 (e.g. when the pandemic no longer interrupts economic activity) via massive vaccination. Note that equity markets, as discounting mechanisms, have priced in the positive vaccine news, taking in stride the expected short-term contraction of economic activity.
- Indeed, euro area equity momentum continued in the past week with the Eurostoxx index up by +1.4% (+16% MtD I -4% YtD). Regionally, in the light of positive vaccine news, periphery bourses have overperformed month-to-date (IBEX35: +25%, FTSE/MIB +21%), albeit the performance gap versus the core remains wide at circa 1100 bps year-to-date (see graph below). Valuation expansion has accounted for the majority of the IBEX35 price increase, with the 12-month forward P/E increasing to 21x from 17.8x in late October, whereas 12-month forward EPS revisions is picking up in Italy. Note that financials account for a large share of market cap on both indices (IBEX35:17% and FTSE/MIB 15%, respectively). As a result, both headline periphery indices have found support by the circa 30% rally of the SX7P index month-to-date.
- Regarding sovereign bonds, both ECB President Lagarde and Chief Economist Lane, have mentioned that despite positive vaccine news, monetary policy must respond to prevent the short-term (Q4:2020 & early-2021) economic downturn from inducing persistent damage to the economy. We, and consensus, now expect the ECB to extend its pandemic emergency purchase program (PEPP: €1350billion with a usage of €681bn as of November 20th or €76 billion per month since inception) beyond June 2021, increasing at the same time the total envelope of the program.
- Expectations for the continuation of ultra-loose monetary policies by the ECB have sent periphery government bond spreads significantly lower in the past month. The BTP/Bund spread has narrowed by 18bps to circa 110bps its lowest level since April 2016. (cont'd on page 2)

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

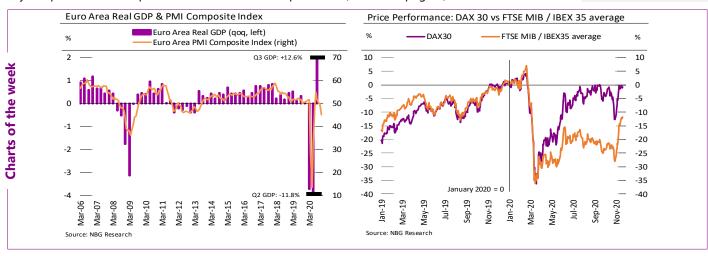
> Panagiotis Bakalis 210-3341545 mpakalis.pan@nbg.gr

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





... In a similar vein, the GGB/bund spread has declined by 25bps to circa 125bps – its lowest level since September 2009 (see graph page 3).

US retail sales undershot expectations in October, with the annual growth of private consumption expenditures remaining in negative territory

Nominal retail sales continued to increase entering Q4, albeit with growth decelerating considerably. Specifically, in value terms, retail sales were up by 0.3% mom in October (consensus for +0.5% mom), compared with +1.6% mom in September (and +1.4% mom in August). The annual pace of growth came out at +5.7%, versus +5.9% in September (trough of -20% yoy in April 2020, in the midst of the pandemic-related lockdown). Recall that, contrary to the respective trend for retail sales (which mainly include sales of goods), the annual growth of overall private consumption is estimated to remain in negative territory, as it also includes expenditures for services (c. 66% of overall private consumption) which were relatively more heavily weighed down by the pandemic (especially expenditures on transportation, recreation, accommodation, education and personal care). In the event, the annual growth of personal spending in services (in nominal terms) stood at -4.6% in September. Finally, according to consensus estimates for October (the respective data are due on November 25th), overall personal spending rose by 0.5% mom, with the annual pace of growth standing at -0.5% yoy. Meanwhile, the University of Michigan's index of consumer sentiment, dropped by 4.8 pts in November, to 77.0 (consensus: 82.0), versus a long-term average of 84.6.

Euro area PMIs suggest significant easing of activity in November, especially in the services sector

- Euro area PMIs posted a larger than expected fall in November. Overall, the composite index decreased for a 4th consecutive month in November, by 4.9 pts to 45.1, below both the consensus estimates (45.5) and the expansion/contraction threshold of 50. The aforementioned decrease was mostly due to the services PMI (-5.6 pts to 41.3, versus consensus for 44.1), as the deterioration of Covid-19 epidemiological data and the subsequent renewed social distancing measures, weigh sharply (and disproportionally) on the sector, in which a big part of activities (e.g. food services, leisure & hospitality), involve face-toface interaction of people. The manufacturing PMI also declined, by 1.2 pts to 53.6, below expectations for 54.2. Although the latest reading remains indicative of continued expansion of activity in the sector, it should be noted that its resilience is not broad based at the country level (it remains heavily concentrated in Germany -see below). On a positive note, the recent promising developments in the medical field against Covid-19 (mainly in respect to vaccines), led to a substantial improvement in respondents' expectations for their output one year ahead (across sectors). Meanwhile, consumer confidence was also considerably down in November, by 2.1 pts to -17.6 (consensus: -18.0), remaining below an average of -11.6 since 2001.
- Regarding PMI performance by country, Germany significantly overperformed France and the rest of the euro area (the latter came out below the expansion/contraction threshold of 50.0 on a country weighted basis, for a 4th consecutive month in November at the composite level, with the respective index at 42.4 from 47.2

in October, according to Markit). Specifically, in France the composite PMI was 39.9 in November, from 47.5 in the previous month (consensus expectations for 34.0). The decline was mainly on account of the services PMI (-8.5 pts to 38.0), while its manufacturing counterpart also lost considerable ground (-2.2 pts to 49.1).

German PMIs pointed to a large divergence of activity momentum between the manufacturing and the services sectors. Specifically, the services PMI fell by 3.3 pts to 46.2, while its manufacturing counterpart was only slightly down, by 0.3 pts to a still solid 57.9. Notably, the robust recovery of economic activity in China (a major export destination for German manufactured goods) likely continues to provide a decisive boost, as suggested by solid readings for the new export orders component (and as also indicated by respondents' reports). Overall, the composite PMI was 52.0 in November, compared with 55.0 in the previous month, remaining above the expansion/contraction threshold of 50.0 and overshooting consensus estimates for 49.1. Note also that the improved prospects for effective vaccines against Covid-19 starting to be deployed in the next months (allowing a gradual return to normality in the course of 2021), led private corporations' expectations for their output a year ahead at its highest since March 2018.

UK PMI in the services sector fell sharply in November, as expected due to the renewed lockdown measures

in November diverged sharply between manufacturing and the services sectors. Specifically, the PMI in the dominant services sector (80% of UK GDP) fell by 5.6 pts to 45.8 (largely in line with consensus estimates), in view of the evolving resurgence of Covid-19 and the respective renewed pandemic-related restrictions, inflicting a large hit in numerous consumer facing activities (especially in leisure and hospitality). In a contrarian note, the manufacturing PMI rose by 1.5 pts to a solid 55.2, exceeding by a wide margin consensus estimates for 51.6. Nevertheless, it should be noted that the latest outcome was positively distorted by temporary factors, namely: i) remaining pockets of pent-up demand after the first lockdown and; ii) other factors related to the imminent Brexit deadline (December 31st). Regarding the latter, sizable preemptive orders by clients in the European Union were reported. In tandem, UK industries embarked on a front-loading of purchases of critical inputs for the manufacturing process. In the event, Markit noted that the stocks of purchases component (10% of the headline index) pointed to the strongest increase in preproduction inventories since October 2019. In addition, the aforementioned developments resulted in supply chain disruptions (shipping delays due to bottlenecks in UK ports) and consequently a sharp lengthening of supplier delivery times (c. 32% of the survey panel reported longer lead times from suppliers, while only 2% noted an improvement), which also distorted to the upside the headline index (usually, such a difficulty for suppliers to meet customer needs comes on the back of a substantial strengthening in the demand, hence the lengthening of delivery times contributes positively to the headline index). Overall, the composite PMI came out at 47.4 in November, from 52.1 in October, declining for a 3rd consecutive month and below the expansion/contraction threshold of 50.0 for the first time since past June.



Equities

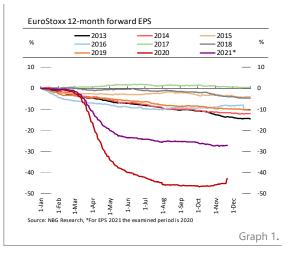
 Global equity markets were mixed in the past week, as investors were trying to balance the positive vaccine developments against the deterioration of the epidemiological data and the re-imposition of restrictions to mobility. Overall, the MSCI ACWI ended the week up by +0.6% (+7.8% ytd), with Emerging Markets (+1.8% wow) over-performing their Developed Markets peers (+0.4% wow). In the US, the S&P500 declined by 0.8% wow (+10.1% ytd) in the past week. The index briefly posted a record high (3627) on Monday (16/11), following the announcement for Moderna's vaccine, albeit the trend reversed later in the week, due to the surge of daily Covid-19 cases which reached 190k. The 14-day moving average of cases has more than doubled since the end of October (151k vs 71k). The positive vaccine results from University of Oxford/ AstraZeneca and news that the Senate Majority Leader has agreed to resume negotiations with the Democrats for a fiscal stimulus package, reinforced the sentiment, but the letter of the US Treasury to the Federal Reserve stating that some of the pandemic lending programmes would not be extended after year's end, weighed to the downside. Regarding the earnings season, out of the 480 companies that have reported results so far, 84% have surpassed analysts' estimates. Consensus EPS expectations for Q3:20 stand at -6.3% yoy from -21% at the beginning of the earnings season and -31.6% in Q2:20. On the other side of the Atlantic, the EuroStoxx rose by 1.4% wow, with Energy (+5.7%) leading the increase, on account of higher oil prices. Regarding the earnings season, out of the 274 companies that have reported results so far, 59% have exceeded analysts' estimates. Consensus EPS expectations for Q3:20 stand at -21.4% yoy from -34.1% at the end of the second quarter.

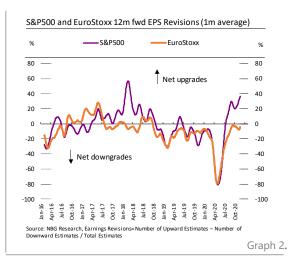


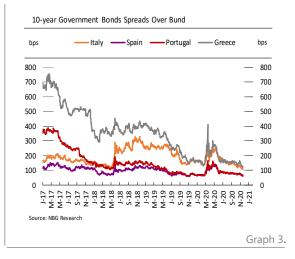
 Government bond yields declined in the past week. Specifically, the US 10year yield ended the week down by 5 bps to 0.83%, due to the weaker-thanexpected economic data (retail sales, initial jobless claims) and the rise of coronavirus daily cases, with local restrictions being imposed across the country. In the UK, the 10-year Gilt yield fell by 3 bps wow to 0.34%. Similarly, in Germany, the 10-year yield decreased by 3 bps wow to -0.57%, following ECB President C. Lagarde's comments that the pandemic emergency purchase programme (PEPP) is likely to remain one of the main tools for adjusting ECB's monetary policy in December. Note that the cumulative net purchases of German government bonds under the PEPP are €125 bn or 25% of the total PEPP envelope as of end-September, slightly below the capital key allocation guideline. Periphery bond yields in the 10-year tenor decreased too, despite Poland and Hungary vetoing the European Union's next seven-year budget of €1.8 tn, including €750 bn for the "Next Generation EU". Indeed, in Spain, the 10-year yield fell by 3 bps to 0.09%, in Italy by 4 bps to 0.54% and in Greece by 6 bps to 0.69%, with the latter two posting new record lows. Corporate bond spreads narrowed significantly in the past week. Indeed, EUR HY bond spreads decreased by 18 bps to 389 bps and their US counterparts narrowed by 14 bps to 449 bps. In the investment grade spectrum, EUR spreads fell by 2 bps to 96 bps and USD spreads declined by 5 bps to 116 bpsps.

FX and Commodities

• In foreign exchange markets, the British Pound increased in the past week, due to increased hopes that a trade agreement between the country and the EU will be achieved. The news that PM B. Johnson is expected to speak with the European Commission President von der Leyen this week in an attempt to resolve the differences, contributed to the upside. Specifically, the Sterling rose by 0.7% wow against the euro to €/0.892 and by 0.9% wow against the US Dollar to \$1.329. In commodities, oil prices increased in the past week, due to vaccine developments and the smaller-than-expected increase in US oil inventories. Specifically, US oil inventories increased by 0.8 million barrels to 490 million barrels for the week ending November 13th. Overall, the WTI rose by 5% wow to \$42.2/barrel, while Brent rose by 5.1% to \$45.







Quote of the week: "We were standing on one side of a massive river of uncertainty and hardship, both from the health and economic point of view. And we couldn't even see the other side of the river... we are now seeing the other side of the river because we know that vaccines are on the horizon", ECB President, Christine Lagarde, November 19th 2020.



0-Yr Gov. Bond Yield (%)	November 20th	3-month	6-month	12-month	Official Rate (%)	November 20th	3-month	6-month	12-month
Germany	-0.57	-0.50	-0.40	-0.30	Euro area	0.00	0.00	0.00	0.00
US	0.83	0.90	1.00	1.20	US	0.25	0.25	0.25	0.25
UK	0.34	0.26	0.30	0.38	UK	0.10	0.10	0.08	0.06
Japan	0.01	0.00	0.05	0.08	Japan	-0.10	-0.10	-0.10	-0.10
urrency	November 20th	3-month	6-month	12-month		November 20th	3-month	6-month	12-month
EUR/USD	1.19	1.17	1.18	1.20	USD/JPY	104	105	104	102
EUR/GBP	0.89	0.90	0.90	0.90	GBP/USD	1.33	1.30	1.31	1.34
EUR/JPY	124	123	123	122					
precasts at end of period									

Economic Forecasts														
United States	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20a	Q2:20a	Q3:20a	Q4:20f	2020f	Q1:21f	Q2:21f	20211
Real GDP Growth (YoY) (1)	3.0	2.3	2.0	2.1	2.3	2.2	0.3	-9.0	-2.9	-3.2	-3.8	-1.7	9.0	3.1
Real GDP Growth (QoQ saar) (2)	-	2.9	1.5	2.6	2.4	-	-5.0	-31.4	33.1	1.3	-	0.8	3.9	-
Private Consumption	2.7	1.8	3.7	2.7	1.6	2.4	-6.9	-33.2	40.7	3.3	-3.9	-0.4	3.2	3.5
Government Consumption	1.8	2.5	5.0	2.1	2.4	2.3	1.3	2.5	-4.5	-1.6	1.1	2.2	3.3	0.8
Investment	5.2	2.9	-0.4	2.4	1.0	1.9	-1.4	-29.2	28.5	1.9	-3.0	2.5	3.4	3.3
Residential	-0.6	-1.7	-2.1	4.6	5.8	-1.7	19.0	-35.5	59.3	13.5	4.5	4.3	2.8	7.4
Non-residential	6.9	4.2	0.0	1.9	-0.3	2.9	-6.7	-27.2	20.3	0.8	-5.0	2.1	3.6	2.4
Inventories Contribution	0.2	0.2	-1.1	-0.1	-0.9	0.0	-1.7	-4.7	6.3	0.8	-0.7	0.0	0.2	0.7
Net Exports Contribution	-0.3	0.6	-0.9	0.0	1.9	-0.2	1.6	0.3	-5.0	-1.7	0.0	0.3	0.3	-0.8
Exports	3.0	1.8	-4.5	8.0	3.4	-0.1	-9.5	-64.4	59.7	8.7	-13.6	3.3	7.3	4.1
Imports	4.1	-2.1	1.7	0.5	-7.5	1.1	-15.0	-54.1	91.1	16.8	-10.0	0.8	3.1	7.6
Inflation (3)	2.5	1.7	1.8	1.7	2.1	1.8	2.1	0.3	1.2	1.1	1.1	1.5	2.7	2.0
Euro Area	2018a	Q1:19a	Q2:19a	Q3:19a	Q4:19a	2019a	Q1:20a	Q2:20a	Q3:20a	Q4:20f	2020f	Q1:21f	Q2:21f	2021
Real GDP Growth (YoY)	1.9	1.4	1.3	1.4	1.0	1.3	-3.3	-14.8	-4.4	-7.7	-7.5	-3.4	12.7	4.7
Real GDP Growth (QoQ saar)	-	2.0	0.8	1.1	0.1	-	-14.1	-39.5	60.5	-13.1	-	3.3	12.1	-
Private Consumption	1.4	2.2	8.0	1.7	0.5	1.3	-16.9	-41.0	67.0	-11.8	-8.1	1.6	13.0	5.1
Government Consumption	1.2	2.2	2.0	2.5	1.0	1.8	-3.0	-9.6	13.6	-5.9	-0.8	4.3	7.4	3.3
Investment	3.5	1.7	2.9	-1.1	14.0	5.0	-18.9	-52.7	85.2	-14.8	-8.9	3.7	15.4	5.5
Inventories Contribution	0.1	-3.4	5.6	-5.5	1.0	-0.3	2.4	-0.7	1.3	-0.3	0.3	-0.1	0.0	0.1
Net Exports Contribution	0.2	3.5	-6.0	5.6	-4.1	-0.5	-2.2	-3.1	1.3	-1.1	-1.5	0.8	0.1	0.0
Exports	3.6	4.2	0.0	2.9	0.5	2.5	-14.4	-56.6	82.7	-6.2	-11.1	4.9	5.6	4.3
Imports	3.6	-3.0	14.1	-8.4	10.0	4.0	-11.2	-55.5	81.7	-4.1	-8.9	3.3	5.5	4.5
Inflation	1.8	1.4	1.4	1.0	1.0	1.2	1.1	0.2	0.0	-0.3	0.3	0.3	1.4	1.1

	12-Month View & Key Factor	Euro Area	Japan	UK
Equity Markets	+ 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 region: + 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	s +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
Government Bonds	+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	fundamentals - Political Risks - Fragile growth outlook	+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%	+ 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
Foreign Exchange	+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
ß	Broadly Flat EUR against the USD with high volatility around \$1.20	Broadly Flat EUR against the USD with high volatility around \$1.20	Slightly higher JPY	Higher GBP expected but with Brexit risk premia working on both directions



47.0

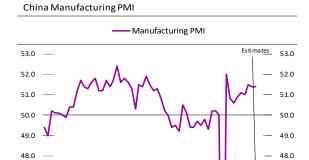
46.0

Economic Calendar

In the US, the main macro event next week is the second estimate of GDP for Q3:20, which is released on Wednesday. GDP growth is expected to be unchanged compared with the previous estimate at 33.1% qoq saar. At the same time, October's personal income and consumption and PCE data (the Fed's preffered measure for gauging inflation developments) for October will gather investors' attention.

In Japan, high frequency activity indicators for October (industrial production, retail sales) will be closely monitored to assess the economic momentum.

In China, November's PMI manufacturing is released on Monday. Official Manufacturing PMI is expected to remain stable at 51.4.



Jan-16
Apr-16
Jul-16
Oct-16
Jan-17
Apr-17
Jan-17
Jan-18
Jul-18
Jul-19
Jul-19
Jul-19
Jul-19
Jul-19
Jul-19
Jul-20
Oct-20
Oct-20

Source: NBG Research

47.0

Economic News Calendar for the period: November 17 - November 30, 2020

Tuesday 17					Wednesday 18					Thursday 19				
US		S	Α	Р	US		S	Α	Р	US		S	Α	Р
Retail Sales Advance MoM	October	0.5%		1.6%	Building permits (k)	October	1560		1545	Initial Jobless Claims (k)	November 14	707	- 742	711
Retail sales ex-autos (MoM)	October		- 0.2%	1.2%	Housing starts (k)	October		+ 1530	1459	Continuing Claims (k)	November 7	6360	- 6372	6801
Industrial Production (MoM)	October		+ 1.1%	-0.4%	UK	October		. 1550		Existing home sales (mn)	October	6.45	+ 6.85	6.57
Net Long-term TIC Flows (\$ bn)	September		108.9	27.8	CPI (YoY)	October	0.6%	+ 0.7%	0.5%	Philadelphia Fed Business				
NAHB housing market					Core CPI (YoY)	October		+ 1.5%	1.3%	Outlook	November	22.0	+ 26.3	32.3
confidence index	November	84 -	+ 90	85	JAPAN					Guttook				
communice macx					Exports YoY	October	-4.6%	+ -0.2%	-4.9%					
					Imports YoY	October	-12.9%							
					imports for	October	12.570	10.070	17.170					
Friday 20					Monday 23									
UK		S	Α	Р	US		S	Α	Р	1				
Retail sales Ex Auto MoM	October		+ 1.3%	1.5%	Markit US Manufacturing PMI	November	52.9		53.4					
JAPAN					EURO AREA									
CPI (YoY)	October	-0.4% -	+ -0.3%	0.2%	Markit Eurozone Manufacturing	Maria 1	F2 4		E 4.0					
Core CPI (YoY) - ex. Fresh Food	October		-0.7%	-0.3%	PMI	November	53.1	+ 53.6	54.8					
Core CPI (YoY) - ex. Fresh Food				0.20/	Markit Eurozone Services PMI	November	42.2	41.3	46.9					
and Energy	October		-0.4%	-0.3%	Markit Eurozone Composite PMI	November	45.6	- 45.1	50.0					
PMI manufacturing	November	49.9	48.3	48.7	UK									
EURO AREA					Markit UK PMI Manufacturing SA	November		+ 55.2	53.7					
Consumer Confidence Indicator	November	-18.0	+ -17.6	-15.5	Markit/CIPS UK Services PMI	November	42.0	+ 45.8	51.4					
Tuesday 24 US S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence GERMANY GDP (QOQ) GDP (wda, YoY) Private Consumption (QoQ) GOP Business Climate Indicator IFO-Expectations IFO- Current Assesment	September November Q3:20 Q3:20 Q3:20 Q3:20 November November November	\$ 4.9% 98.0 8.2% -4.3% 9.3% 0.7% 90.2 93.3 87.3	A	P 5.2% 100.9 8.2% -4.3% -11.1% 2.2% 92.5 94.7 90.4	Wednesday 25 US GDP (QoQ, annualized) Initial Jobless Claims (k) Continuing Claims (k) Durable goods orders (MoM) Durable goods orders ex transportation (MoM) New home sales (k) PCE Deflator (YoY) PCE Core Deflator (YoY) Personal income (MoM) Personal spending (MoM)	Q3:20 November 21 November 14 October October October October October October October	\$ 33.1% 730 6050 1.0% 0.4% 973 1.2% 1.4% 0.1% 0.6%	A	9 33.1% 742 6372 1.9% 0.9% 959 1.4% 0.9% 0.9%	Thursday 26 UK Nationwide House Px NSA YoY EURO AREA M3 money supply (YoY)	November October	\$ 6.2% 10.4%	A	P 5.8% 10.4%
Friday 27 EURO AREA	Newson	S	A	P	Monday 30 US	Ortokan	S	A	P	<u> </u> -				
Business Climate Indicator	November	-15.5 86.5		-0.7 90.9	Pending home sales (MoM) JAPAN	October	-1.0%		-2.2%					
Economic confidence indicator	November	86.5		90.9		October	1.5%		3.9%					
					Industrial Production (MoM) Industrial Production (YoY)	October October	-6.2%		-9.0%					
					Retail sales (MoM)	October	0.270		-0.1%					
					Retail sales (YoY)	October			-8.7%					
					Construction Orders YoY	October			-10.6%	,				
					CHINA	Octobe.								
					Manufacturing PMI	November	51.4		51.4					
					manadataring r mi									

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



Developed N	/larkets	Current	1-week	Year-to-Date	1-Year	2-year	Emerging Markets	Current	1-week	Year-to-Date	1-Year
		Level	change (%)	change (%)	change (%)	change (%)		Level	change (%)	change (%)	change (%)
US	S&P 500	3558	-0.8	10.1	14.6	34.3	MSCI Emerging Markets	67984	1.4	10.6	16.3
Japan	NIKKEI 225	25527	0.6	7.9	10.8	18.7	MSCI Asia	1070	1.5	17.1	24.1
UK	FTSE 100	6351	0.6	-15.8	-12.3	-9.9	China	107	0.7	24.9	36.1
Canada	S&P/TSX	17019	2.1	-0.3	0.1	12.7	Korea	800	2.3	15.8	22.6
Hong Kong	Hang Seng	26452	1.1	-6.2	-0.1	1.8	MSCI Latin America	90747	1.7	-9.4	-5.2
Euro area	EuroStoxx	386	1.4	-4.3	-2.5	11.4	Brazil	333441	1.2	-8.9	-3.0
Germany	DAX 30	13137	0.5	-0.8	0.0	16.8	Mexico	38747	2.6	-3.4	-3.3
France	CAC 40	5496	2.2	-8.1	-6.6	10.5	MSCI Europe	5539	1.8	-13.1	-10.6
Italy	FTSE/MIB	21707	3.8	-7.7	-6.8	15.9	Russia	1220	1.1	-10.4	-7.5
Spain	IBEX-35	7978	2.5	-16.5	-13.4	-11.0	Turkey	1559401	1.9	3.8	9.2

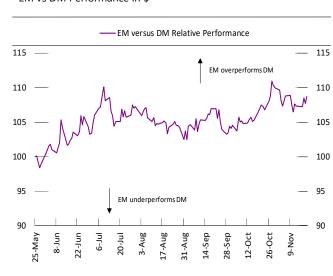
in US Dollar terms	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	in local currency	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)
Energy	120.9	5.3	-38.6	-36.6	-40.9	Energy	122.9	4.9	-39.0	-37.7
Materials	295.3	1.2	8.5	13.8	23.4	Materials	276.7	0.8	6.2	10.1
Industrials	295.3	1.6	6.8	8.5	26.4	Industrials	286.0	1.3	4.7	5.6
Consumer Discretionary	348.8	1.9	25.4	31.0	50.6	Consumer Discretionary	331.9	1.7	23.6	28.7
Consumer Staples	258.6	-1.0	3.0	5.8	17.1	Consumer Staples	254.4	-1.2	1.2	3.0
Healthcare	300.1	-2.1	7.5	12.8	25.8	Healthcare	292.2	-2.3	6.0	10.6
Financials	111.8	2.4	-11.1	-7.6	0.5	Financials	110.6	2.1	-12.3	-9.6
IT	407.2	0.0	31.0	38.5	84.3	IT	391.9	-0.1	30.1	37.4
Telecoms	88.9	-0.2	14.8	17.9	38.2	Telecoms	92.2	-0.3	14.0	16.7
Utilities	151.9	-1.9	1.1	5.1	19.2	Utilities	153.3	-2.1	-0.6	2.8

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	0.83	0.88	1.93	1.79	2.19	US Treasuries 10Y/2Y	65	68	34	16
Germany	-0.57	-0.54	-0.16	-0.31	0.83	US Treasuries 10Y/5Y	34	37	21	14
Japan	0.09	0.07	-0.01	-0.10	0.38	Bunds 10Y/2Y	19	20	46	33
UK	0.34	0.37	0.84	0.76	1.70	Bunds 10Y/5Y	19	20	30	25
Greece	0.69	0.75	1.43	1.39	9.33					
Ireland	-0.26	-0.21	0.18	0.14	2.98	Corporate Bond Spread	Current	La ak a al .	Vanu Ctaut	One Year
Italy	0.54	0.57	1.43	1.29	2.93	(in bps)	Current	Last week	Year Start	Back
Spain	0.09	0.12	0.47	0.44	2.64	EM Inv. Grade (IG)	174	173	150	160
Portugal	0.04	0.10	0.49	0.46	4.32	EM High yield	613	621	494	524
						US IG	116	121	101	114
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	449	463	360	417
30-Year FRM ¹ (%)	2.8	2.8	3.7	3.7	4.1	Euro area IG	96	98	94	105
vs 30Yr Treasury (bps)	126	115	132	146	123	Euro area High Yield	389	407	308	365

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	1.19	0.3	-0.2	7.0	5.6	Agricultural	337	2.0	3.4	18.7
EUR/CHF	1.08	0.0	0.7	-1.6	-0.6	Energy	145	3.5	4.7	-27.7
EUR/GBP	0.89	-0.7	-1.1	4.1	5.3	West Texas Oil (\$)	42	5.0	5.3	-28.0
EUR/JPY	123.06	-0.5	-0.8	2.4	0.9	Crude brent Oil (\$)	45	5.1	7.7	-29.7
EUR/NOK	10.67	-1.5	-2.3	5.5	8.2	Industrial Metals	372	4.0	6.1	18.6
EUR/SEK	10.21	-0.8	-1.5	-4.4	-2.9	Precious Metals	2461	-0.9	-2.7	29.1
EUR/AUD	1.62	-0.6	-2.7	-0.5	1.5	Gold (\$)	1870	-1.1	-2.8	27.7
EUR/CAD	1.55	-0.5	-0.5	5.3	6.4	Silver (\$)	24	-2.1	-3.5	41.3
USD-based cross rates						Baltic Dry Index	1148	3.0	-14.7	-8.5
USD/CAD	1.31	-0.7	-0.3	-1.6	0.8	Baltic Dirty Tanker Index	438	3.1	3.3	-65.7
USD/AUD	1.37	-0.9	-2.6	-7.0	-3.8					
USD/JPY	103.82	-0.8	-0.6	-4.3	-4.5					

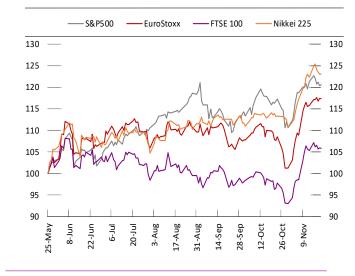






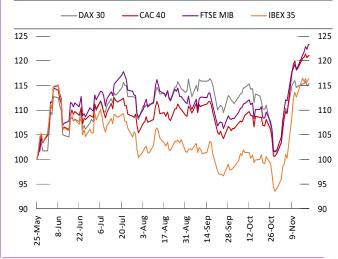
Data as of November 20th – Rebased @ 100

Equity Market Performance - G4



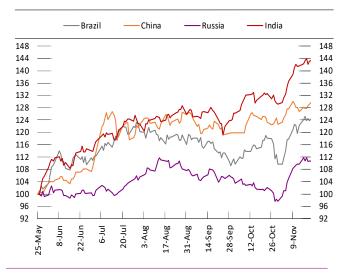
Data as of November 20th - Rebased @ 100

Equity Market Performance – Euro Area G4



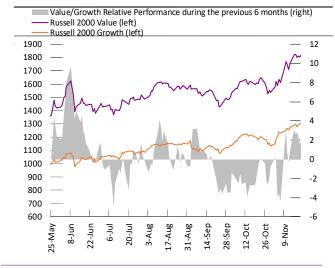
Data as of November 20th – Rebased @ 100

Equity Market Performance - BRICs



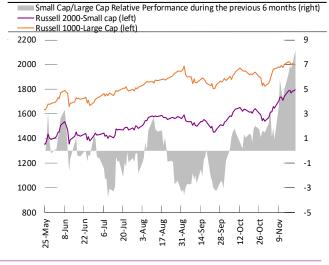
Data as of November 20^{th} – Rebased @ 100

Russell 2000 Value & Growth Index



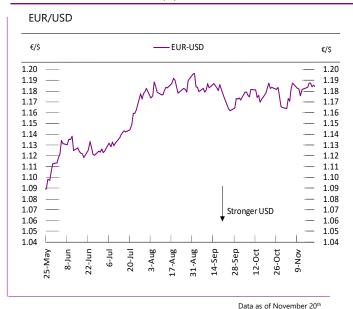
Data as of November 20th

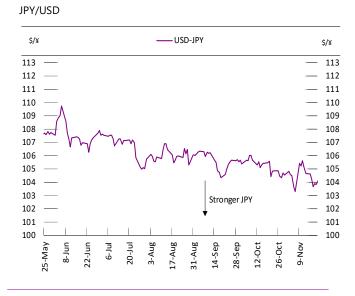
Russell 2000 & Russell 1000 Index



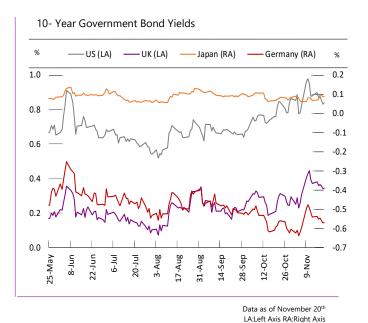
Data as of November 20th

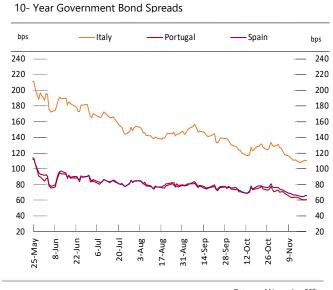




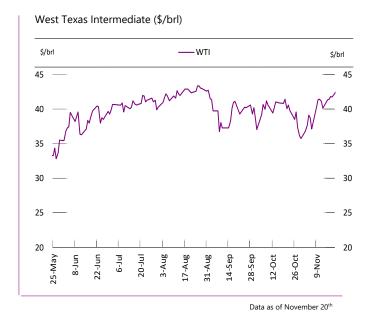


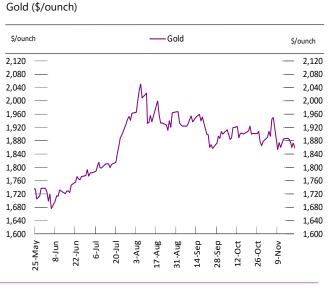
Data as of November 20th





Data as of November 20th





Data as of November 20th

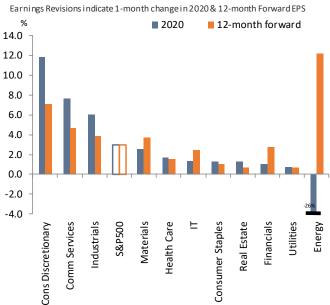


US Sectors Valuation

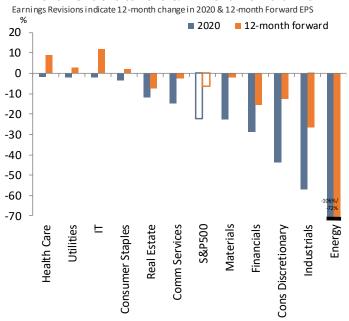
		Price (\$)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/BV R	latio	
	20/11/20	% Weekly Change	%YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
S&P500	3558	-0.8	10.1	1.2	-14.7	1.8	1.6	20.3	25.9	21.8	15.7	3.7	3.9	3.7	2.6
Energy	267	5.0	-41.5	-28.3	N/A	3.9	6.4	21.5	N/A	N/A	15.1	1.6	1.2	1.2	1.7
Materials	438	1.1	13.5	-15.6	-10.8	2.1	1.9	20.2	26.5	21.4	15.2	2.4	2.9	2.8	2.5
Financials															
Diversified Financials	756	0.0	1.9	1.4	-14.4	1.4	1.5	16.3	19.1		14.1	1.9	1.7	1.7	1.5
Banks	281	1.2	-26.0	9.0	-39.9	2.6	3.4	12.3	15.5		11.0	1.4	1.0	0.9	1.0
Insurance	409	0.4	-7.2	15.8	-6.4	2.2	2.5	13.4	13.3	11.5	11.0	1.5	1.3	1.2	1.1
Real Estate	229	-1.6	-4.9	1.9	-6.7	3.1	3.0	21.0	21.4	20.5	18.3	3.7	3.3	3.5	3.1
Industrials															
Capital Goods	738	1.3	1.7	-7.2	-23.0	1.8	1.7	21.2	27.6	22.4	16.0	5.5	4.7	4.4	3.5
Transportation	917	0.9	17.0	6.5	N/A	1.9	1.5	14.7	N/A	N/A	9.8	4.3	6.4	6.2	3.5
Commercial Services	413	-0.2	19.5	12.8	0.1	1.3	1.1	28.5	33.0	30.1	20.7	6.0	6.1	5.7	3.6
Consumer Discretionary															
Retailing	3408	-1.0	39.1	4.4	2.1	0.7	0.5	33.9	45.7	37.2	23.7	13.9	15.1	12.5	7.2
Consumer Services	1239	0.7	-4.9	5.0	N/A	2.1	1.5	24.2	N/A	N/A	22.5	16.5	25.5	40.8	8.9
Consumer Durables	425	3.4	14.1	-0.4	-8.4	1.5	1.2	19.7	24.8	19.9	17.2	4.1	4.4	4.0	3.2
Automobiles and parts	128	3.4	7.5	-16.8	N/A	4.2	1.0	8.5	N/A	N/A	7.7	1.3	1.5	1.4	1.6
IT															
Technology	2244	-1.2	40.8	2.6	5.6	1.3	1.0	21.6	27.7	24.6	13.3	9.7	14.3	15.2	4.4
Software & Services	2879	-1.5	25.3	11.4	6.9	0.9	0.9	29.5	33.5	29.7	18.5	7.9	9.4	8.5	5.4
Semiconductors	1647	1.1	32.6	-12.3	9.6	1.8	1.4	18.9	22.8	20.4	14.4	5.6	6.8	6.1	3.3
Communication Services	211	-0.9	16.3	3.0	-4.3	1.2	1.0	21.8	25.7	22.9	17.9	3.5	3.7	3.4	2.9
Media	807	-0.8	23.7	3.8	-0.1	0.4	0.3	27.4	32.6	27.6	20.8	4.2	4.7	4.2	3.3
Consumer Staples															
Food & Staples Retailing	573	-0.8	15.2	2.9	0.4	1.7	1.5	21.5	25.1	24.4	16.8	4.6	5.1	4.8	3.3
Food Beverage & Tobacco	700	-0.9	-2.1	-1.7	0.6	3.3	3.4	19.7	19.2	18.2	17.8	5.3	5.2	4.9	5.0
Household Goods	841	-2.9	13.1	6.4	9.9	2.3	2.1	26.0	26.8	25.1	19.9	9.5	10.3	9.9	5.7
Health Care															
Pharmaceuticals	1022	-2.1	3.7	10.8	10.0	2.1	2.3	16.2	15.2	14.1	14.8	6.3	5.4	4.9	4.0
Healthcare Equipment	1511	-3.9	9.6	9.9	3.4	1.0	1.0	20.7	21.7	19.3	15.8	3.8	3.7	3.4	2.7
Utilities	322	-3.9	-2.0	4.9	2.5	3.1	3.2	20.7	19.9		16.2	2.2	2.1	2.0	1.7

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



Data as of November $20^{\rm th}$ 12-month forward EPS are 11% of 2020 EPS and 89% of 2021 EPS

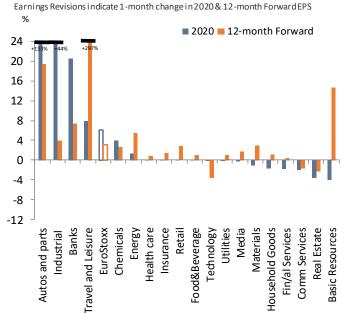


Euro Area Sectors Valuation

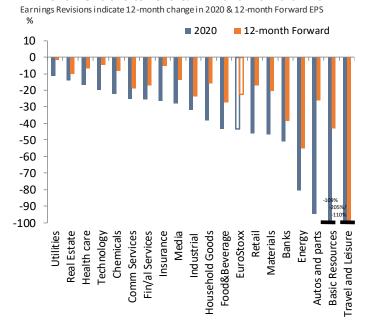
		Price (€)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/I	BV Ratio	
	20/11/20	% Weekly Char	nge %YTD	2019	2020	2019	2020	2019	2020	12m fwd	10Yr Avg	2019	2020	12m fwd	10Yr Avg
EuroStoxx	386	1.4	-4.3	2.2	-38.3	3.0	2.3	16.8	25.7	19.2	13.6	1.7	1.7	1.6	1.4
Energy	241	5.7	-26.7	-10.1	-76.1	5.0	5.0	13.7	41.5	20.0	12.1	1.3	1.2	1.2	1.1
Materials	445	-0.1	-8.8	12.5	-41.3	3.1	2.5	15.4	24.1	16.7	14.3	1.8	1.7	1.6	1.4
Basic Resources	176	2.3	-13.6	-60.5	N/A	3.1	2.0	20.8	N/A	N/A	9.0	0.9	0.9	0.9	0.9
Chemicals	1238	0.7	5.3	-13.5	-13.1	2.7	2.5	21.6	26.5	22.9	15.6	2.1	2.3	2.3	2.2
Financials															
Fin/al Services	472	1.1	-6.3	23.4	-29.1	2.6	2.6	14.7	19.1	17.2	13.7	1.5	1.2	1.1	1.2
Banks	71	4.0	-26.4	-1.1	-49.3	5.7	3.4	9.2	13.3	10.7	9.5	0.6	0.5	0.5	0.7
Insurance	257	2.0	-15.0	12.3	-22.7	4.8	5.6	11.0	12.0	9.4	9.3	1.0	0.8	0.8	0.9
Real Estate	211	1.5	-14.5	0.2	-10.2	4.2	3.9	19.1	18.2	17.4	17.0	1.0	0.9	0.9	1.0
Industrial	946	1.5	0.6	12.0	-23.7	2.4	1.5	20.2	26.3	23.8	15.8	3.2	3.3	3.1	2.4
Consumer Discretionary															
Media	215	-0.1	-4.0	4.1	-20.5	2.6	2.3	17.9	21.4	18.2	15.6	2.5	2.4	2.3	1.9
Retail	670	0.6	11.5	4.9	-38.3	2.6	1.6	26.0	46.8	31.4	22.1	6.7	6.4		4.2
Automobiles and parts	484	4.2	-0.4	-12.2	N/A	3.7	1.5	8.7	N/A	N/A	15.9	0.9	0.9	0.9	1.0
Travel and Leisure	195	-0.5	-9.1	-10.1	N/A	2.2	0.3	16.8	N/A	N/A	14.0	2.0	2.3	2.4	2.0
Technology	668	1.7	10.3	1.6	-10.5	1.1	0.7	28.0	33.4	28.6	19.1	4.8	4.7	4.4	3.3
Communication Services	254	0.5	-12.1	-9.6	-6.3	4.1	4.2	17.9	16.6	15.5	14.8	1.8	1.5	1.5	1.8
Consumer Staples															
Food&Beverage	510	-1.6	-14.8	16.8	-39.6	2.1	1.5	20.6	28.8	22.7	18.9	2.7	2.3	2.2	2.6
Household Goods	1174	0.9	9.7	6.4	-30.4	1.6	1.1	29.9	46.2	34.8	21.9	6.1	6.3	5.8	3.9
Health care	826	-0.8	-5.0	7.0	-9.7	2.1	2.0	20.2	20.6	18.6	15.7	2.4	2.3	2.2	2.2
Utilities	372	0.9	7.4	57.2	-5.4	4.4	4.1	16.3	18.2		13.0	1.6	1.6	1.6	1.1

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



;

Data as of November 20th

12-month forward EPS are 11% of 2020 EPS and 89% of 2021 EPS

National Bank of Greece | Economic Research Division | Global Markets Analysis



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.