Global Markets Roundup



National Bank of Greece | Economic Research Division | November 8, 2022

Central banks "stay the course" against inflation, with Fed raising the policy interest rate by 75 basis points to 4%

- The Federal Reserve raised the Fed Funds Rate (FFR) by 75 bps at the November meeting to 3.75%-4.0%, as widely expected. Mr. Powell noted, that regarding the pace of future increases the Committee will consider i) the cumulative tightening of monetary policy (375 bps in 2022); and ii) the lags with which monetary policy affects economic activity and inflation.
- The Fed pointed to a slower pace of rate hikes, starting as soon as the next meeting (December 14th), albeit at a terminal interest rate higher-than-previously expected. The median FOMC member rate forecast ("dot") in September revealed the FFR at 4.625% in 2023. Investors' expectations point to a terminal rate of 5%-5.25% in May 2023 (see graph below).
- The Fed will remain data dependent. The labor market is tight, with the unemployment rate at 3.7% (see Economics), and inflation pressures are strong (core CPI: 6.6% yoy in September), suggesting that any discussion about Fed "pause" or "pivot" is premature.
- The Bank of England also raised by 75 bps the Bank Rate (the largest single hike since 1989) to 3.0%, citing its expectation that the rate will eventually not need to get as high as investors were anticipating prior to the meeting. Such levels would induce a larger hit to economic activity that the necessary one to get inflation back under control.
- The BoE anticipates a sustained fall in UK GDP from H2:2022 up to H1:2024, mainly in view of squeezed real incomes due to high inflation. If confirmed, such a contraction would be the longest since 1955, albeit a relatively "shallow" one. A cumulative fall of -2.9% in GDP is foreseen versus -6.3% during the Global Financial Crisis. These forecasts were conditioned on a market-implied path for the Bank Rate, which pointed to a peak of 5.25% in Q3:2023. The anticipated market-implied peak had eased to 4.75%. In that scenario, the BoE expects CPI inflation to end up well below the 2% target in 2025 (0%, see Economics).
- The S&P500 index lost -3.3% in the past week, as investors' expectations for a dovish pivot in Fed's monetary policy were dashed. US Treasury yields edged significantly higher (10-year: +14 bps wow to 4.16% & 2-year: +21 bps wow to 4.73%), with the upward trend continuing on Monday (+5 bps and +7 bps, respectively).
- Attention now turns to US mid-term elections, with all 435 seats in the House of Representatives and 35 out of 100 in the Senate being contested. Currently, the Democrats control both chambers of Congress, as they have a narrow majority in the House of Representatives (222-213), while the Senate is divided (50-50), with Vice President Kamala Harris acting as the tie-breaking vote.
- Prediction market-based pricing implies that Republicans will probably win the control of the House (88%), favored to win 227 seats (9 seats are rated as toss-up). Regarding the Senate, polls are projecting that the Republicans are favored to win 20 out of the 35 seats at stake, reaching 49 seats and the Democrats 12 seats, reaching 48 seats, while 3 seats (Georgia, Nevada, and Pennsylvania) are rated as toss-up. Prediction market-based pricing implies that the Republicans will also win the control of the Senate (65%-35%) minimizing the ability of substantial legislative initiatives.

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

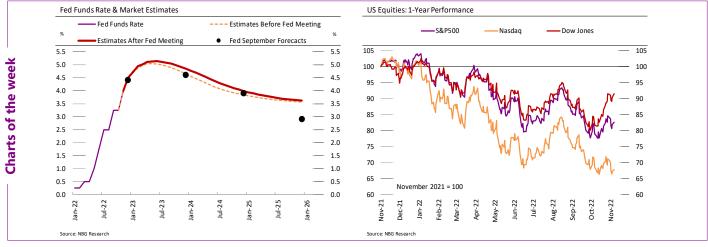
> Panagiotis Bakalis 210-3341545 mpakalis.pan@nbg.gr

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





US labor market data for October were mixed

- Headline job creation was stronger than expected in October. Specifically, non-farm payrolls were up by +261k, from +315k in the previous month, versus consensus estimates for +200k. Furthermore, positive net revisions for the previous two months took place (+29k, cumulatively). Employment gains were reported in 62% of industries. Sector-wise, health care (+53k), professional & technical services (+43k), leisure & hospitality (+35k) and manufacturing (+32k, mainly due to a 23k in the durable goods segment), stood out.
- On the other hand, the (relatively more volatile) total household employment, including the self-employed and agricultural workers, declined by -328k in October from +204k in September. As a result, the unemployment rate rose by 0.2 pps to 3.7%, versus expectations for 3.6%. Recall that the unemployment rate has hovered in a tight range of 3.5% (equal to pre-pandemic levels in February 2020 and a joint low since December 1969) to 3.7% in the past eight months. Similarly, the U-6 unemployment rate (which includes the unemployed, part-time workers for economic reasons, and those workers marginally attached to the labor force), which is considered a broader measure of slack, increased by 0.1 pp to 6.8% in October.
- In all, job creation has lost steam, albeit labor market remains tight. In the event, according to the Job Openings and Labor Turnover Survey for September, job openings stood at a strong 10.72mn from 10.28mn in August, above consensus estimates for 10.00mn. The difference with the number of hires widened to an elevated 4.64mn from 3.95mn in August, suggesting that broad mismatches in the supply and demand of labor, remain. Importantly, the prominent job vacancy rate (i.e. the ratio of job openings to the number of unemployed persons excluding those on temporary layoff, a metric closely watched as an indicator of labor market slack), rose to 2.1x from 2.0x, a level which despite being lower than a record (since 2000) high of 2.3x in July, is still particularly elevated (average of 0.7x since 2000).
- Average hourly earnings remained resilient in October, with the monthly growth accelerating to +0.4% mom, from +0.3% mom in September, above expectations for a stable performance (average of +0.25% mom since 2006). The annual growth eased to +4.7% from +5.0% in September, in line with consensus estimates and still well above an average of +2.9% yoy since 2007.

US PMIs for October pointed to a somewhat weaker dynamic for business activity

- PMIs eased in October. Indeed, the ISM manufacturing PMI fell by 0.7 pts to 50.2 (consensus: 50.0). The decline was due to faster deliveries (the component of supplier delivery times fell by 5.6 pts to 46.8 and a slower accumulation on inventories' component (52.5 from 55.5). The implied better position of manufacturers to manage the supply process was due to an easing of demand (a negative development), as well as due to an alleviation of supply chain impediments (a positive development). The highly indicative of demand conditions and relatively more forward-looking index of new orders increased by +2.1 pts to 49.2. Meanwhile, the ISM services PMI decreased by 2.3 pts to 54.4, below expectations for 55.5 (new orders: -4.1 pts to 56.5).
- On pipeline price pressures, the aforementioned reports painted a mixed picture, with the prices paid index declining by 5.1 pts to 46.6 in the manufacturing survey (below the expansion/contraction threshold of 50.0 for the first time since May 2020) and increasing by 2.0 pts to 70.7 in its services peer.

A bleak economic outlook from the Bank of England

- The BoE anticipates a sustained fall in UK GDP from H2:2022 up to H1:2024 mainly in view of squeezed real incomes due to high inflation. If confirmed, such a contraction would be the longest since 1955, albeit a relatively" shallow" one. A cumulative fall of -2.9% in GDP is foreseen versus -6.3% during the Global Financial Crisis.
- According to the November Monetary Policy Report (MPR), real GDP is estimated to have fallen by -0.5% qoq in Q3:22 and is projected to decline anew in Q4:22, by -0.3% qoq. That path suggests a GDP growth of +4.25% overall in 2022 from +7.5% in 2021, a higher estimate compared with the previous MPR (August), due to a better than previously foreseen outcome in Q2:22 (+0.2% qoq instead of an anticipated -0.2% qoq). The contraction of GDP in H2:22 is expected to continue in 2023 (-1.5%) and in H1:24 (-1.5% yoy). As a result, real GDP growth is foreseen at -1.0% overall in 2024 (versus -0.25% in August's MPR). A still relatively subdued +0.5% real GDP growth is projected for 2025.
- In that context, the unemployment rate is projected to increase, peaking during 2025 (average for 2022: 3.75%, unchanged from August's MPR | 2023: 5.0% instead of 4.75% | 2024: 5.75% as also expected in August | 2025: 6.5%, at 6.4% though in Q4:25).
- On inflation, BoE expects headline CPI growth to have peaked at 10.9% yoy in October (10.1% yoy in September) when the price cap from the Great Britain's independent energy regulator Office of Gas and Electricity Markets was reset (the price cap limits the rates which suppliers can charge for their default tariffs). That forecast is meaningfully lower compared with the projections in August's MPR for 13.3% yoy, on the back of fiscal support to cap energy bills for households and corporations (Energy Bills Support Scheme and Energy Price Guarantee). Recall that BoE incorporated a working assumption that some fiscal support continues beyond the current 6-month period (from October 2022 to March 2023) of the Energy Price Guarantee, after which it is set to reviewed. CPI growth is anticipated to remain stable at 10.9% yoy throughout Q4:22, before starting to ease as of Q1:23 (+10.1% yoy) and to gradually fall below the 2% target in Q2:24 (+1.1% yoy). In all, CPI is foreseen at +10.75% yoy on average in 2022 (versus +13.0% yoy in August's MPR), +5.25% yoy in 2023 (instead of +5.5% yoy), +1.5% yoy in 2024 (unchanged from the previous projections) and at 0% in 2025, albeit the BoE cited upside risks to that path, in the medium-term.

China's PMIs entered Q4:2022 on a weak note

PMIs posted mixed changes in October, overall suggesting a weakening of momentum for business activity. In the event, the Caixin manufacturing PMI was up by 1.1 pt to 49.2 (consensus: 49.0). At the same time, the "official" manufacturing PMI, i.e. the one from the National Bureau of Statistics (NBS) of China, decreased by 0.9 pts to 49.2 (consensus: 50.0). According to the NBS, energy-intensive segments weighed on the headline index. Meanwhile, the official nonmanufacturing PMI fell by 1.9 to 48.7, with the services sub-index shedding 1.9 pts to 47.0 (contact intensive segments such as retail sales, catering and air transport services continued to underperform in view of Covid-19 containment measures). Its construction peer declined by 2.0 pts, remaining though solid at 58.2, with the NBS noting strong infrastructure building on the back of policy support.



Equities

• Global equity markets declined, mainly driven by US equities. Overall, the MSCI ACWI ended the week down by 1.4% (-23% ytd), with Developed markets (-2.1% wow | -22% ytd) significantly underperforming their Emerging Markets peers (+4.7% wow | -28% ytd). The S&P500 declined by 3.3% wow (-21% ytd), as investors' expectations for a dovish pivot in Fed's monetary policy were dashed following the Fed Chair J. Powell's hawkish remarks during the post-meeting press conference. Regarding sectors, IT fell by -6.9% wow, with Apple ending the week down by 11.1%, recording its largest weekly decline since March 2020, following the imposed Covid-19 restrictions at a Foxconn plant in Zhengzhou that will affect production and shipments of iPhone 14 Pro and Pro Max lines. Communication Services fell by -7.4% wow, with Google underperforming (-10.1%), also posting its largest weekly decline since March 2020.

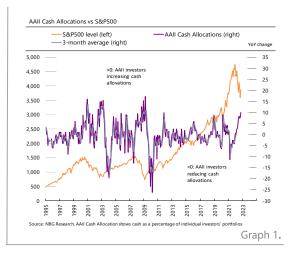
Regarding the Q3:2022 earnings season, with 88% of the S&P500 having reported results, so far, circa 71% have reported actual EPS above estimates. Consensus expects EPS growth of +2.3% yoy, from 2.7% yoy on September 30th. Notably, looking ahead, analysts now expect EPS to decline by -1.5% yoy in Q4:2022 (-6.1% excluding the Energy sector), from +0.2% yoy in the previous week and +3.9% yoy on September 30th. Full year 2023 estimates stand at +6% from +5.4% in 2022. Regarding styles, the Russell 1000 Growth index underperformed its Value peer by a significant margin of 440 basis points in the past week, widening the lag since September 30th to 860 bps, as the Nasdaq Composite fell by 5.7% wow, posting its largest weekly decline since January 2022. On the other side of the Atlantic, the EuroStoxx rose by +1.6% wow, with the Energy sector leading the increase (+5.5% wow) and Banks following suit (+4.1% wow). In Hong Kong, the Hang Seng rose by 8.7% wow, recording its largest weekly gains since 2011, while in China, the CSI300 increased by +6.4% wow.

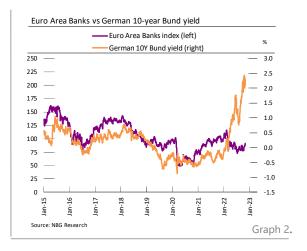
Fixed Income

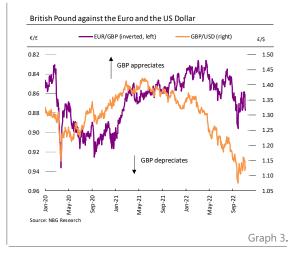
Government bond yields rose in the past week. Specifically, the US Treasury 10-year yield ended the week up by 14 bps to 4.16%, recording its 13th weekly increase out of the past 14 weeks, due to, inter alia, Fed Chair J. Powell's estimates that the Fed Funds Rate may move to higher levels and stay higher for longer than previously expected. The 2-year yield rose by 21 bps wow to 4.73%, recording on Thursday its highest level since 2007 (4.77%). Attention now turns to inflation data for November (core cpi expectations of 0.5% mom) and midterm elections (November 8th), which are likely to result in divided government (Republicans are projected to win control of the House, while the Senate seems a tossup) and therefore reduce prospects for fiscal stimulus (if needed) and major legislative changes. In the United Kingdom, the yield of the 10-year Gilt increased by 12 bps wow to 3.56%, while on the contrary, the 2-year yield declined by 9 bps wow to 3.05%. In Germany, the 10-year yield rose by 20 bps wow to 2.29%, while periphery government bond yields also increased (Italy: +28 bps to 4.45%, Spain: +20 bps to 3.35%, Greece: +17 bps to 4.69%). Corporate bond spreads were mixed in the past week. Specifically, US high yield spreads were up by 23 bps to 477 bps, while their euro area counterparts declined by 22 bps to 566 bps. In the Investment Grade spectrum, US spreads decreased by 5 bps to 161 bps and Euro area spreads declined by 9 bps to 208 bps.

FX and Commodities

• In foreign exchange markets, the British Pound depreciated in the past week, declining by 2.8% wow against the US dollar to USD/GBP 0.89 and by 2.2% wow against the euro to EUR/GBP 0.88, due to, *inter alia*, the Bank of England's expectations that the Bank Rate will increase further, albeit to a peak lower than priced into financial markets (around 5%). In commodities, oil prices rose in the past week, supported by a larger-than-expected decline of US oil inventories (-3.1 million barrels to 437 million barrels for the week ending October 28th). Overall, the WTI ended the week up by 5.4% to \$92.6/barrel, while the Brent rose by 2.9% to \$98.6/barrel.







Quote of the week: "Incoming data since our last meeting suggest that the ultimate level of interest rates will be higher than previously expected", Fed Chair, Jerome Powell, November 2nd 2022.



November 4th	3-month	6-month	12-month	Official Rate (%)	November 4th	3-month	6-month	12-month
2.29	2.15	2.25	2.25	Euro area	1.50	2.00	2.50	2.50
4.16	4.00	4.10	4.10	US	4.00	4.50	5.00	5.00
3.56	4.08	3.93	3.67	UK	3.00	3.85	4.40	4.45
0.25	0.23	0.27	0.33	Japan	-0.10	-0.10	-0.10	-0.10
November 4th	3-month	6-month	12-month		November 4th	3-month	6-month	12-mont
0.99	1.02	1.05	1.10	USD/JPY	147	149	141	136
0.88	0.88	0.87	0.89	GBP/USD	1.14	1.16	1.20	1.23
146	152	148	150					
	2.29 4.16 3.56 0.25 November 4th 0.99 0.88	2.29 2.15 4.16 4.00 3.56 4.08 0.25 0.23 November 4th 3-month 0.99 1.02 0.88 0.88	2.29 2.15 2.25 4.16 4.00 4.10 3.56 4.08 3.93 0.25 0.23 0.27 November 4th 3-month 6-month 0.99 1.02 1.05 0.88 0.88 0.87	2.29 2.15 2.25 2.25 4.16 4.00 4.10 4.10 3.56 4.08 3.93 3.67 0.25 0.23 0.27 0.33 November 4th 3-month 6-month 12-month 0.99 1.02 1.05 1.10 0.88 0.88 0.87 0.89	2.29 2.15 2.25 2.25 Euro area 4.16 4.00 4.10 4.10 US 3.56 4.08 3.93 3.67 UK 0.25 0.23 0.27 0.33 Japan November 4th 3-month 6-month 12-month 0.99 1.02 1.05 1.10 USD/JPY 0.88 0.88 0.87 0.89 GBP/USD	2.29 2.15 2.25 2.25 Euro area 1.50 4.16 4.00 4.10 4.00 4.00 3.56 4.08 3.93 3.67 UK 3.00 0.25 0.23 0.27 0.33 Japan -0.10 November 4th 3-month 6-month 12-month November 4th November 4th 0.99 1.02 1.05 1.10 USD/JPY 147 0.88 0.88 0.87 0.89 GBP/USD 1.14	2.29 2.15 2.25 2.25 Euro area 1.50 2.00 4.16 4.00 4.10 4.10 US 4.00 4.50 3.56 4.08 3.93 3.67 UK 3.00 3.85 0.25 0.23 0.27 0.33 Japan -0.10 -0.10 November 4th 3-month 6-month 12-month November 4th 3-month 3-month 0.99 1.02 1.05 1.10 USD/JPY 147 149 0.88 0.88 0.87 0.89 GBP/USD 1.14 1.16	2.29 2.15 2.25 2.25 Euro area 1.50 2.00 2.50 4.16 4.00 4.10 4.10 US 4.00 4.50 5.00 3.56 4.08 3.93 3.67 UK 3.00 3.85 4.40 0.25 0.23 0.27 0.33 Japan -0.10 -0.10 -0.10 November 4th 3-month 6-month 12-month November 4th 3-month 6-month 0.99 1.02 1.05 1.10 USD/JPY 147 149 141 0.88 0.88 0.87 0.89 GBP/USD 1.14 1.16 1.20

Economic Forecasts											
United States	2020a	Q1:21a	Q2:21a	Q3:21a	Q4:21a	2021a	Q1:22a	Q2:22a	Q3:22a	Q4:22f	2022f
Real GDP Growth (YoY) (1)	-2.8	1.2	12.5	5.0	5.7	5.9	3.7	1.8	1.8	0.3	1.7
Real GDP Growth (QoQ saar) (2)	-	6.3	7.0	2.7	7.0	-	-1.6	-0.6	2.6	2.6	-
Private Consumption	-3.0	10.8	12.1	3.0	3.1	8.3	1.3	2.0	1.4	2.2	2.3
Government Consumption	2.6	6.5	-3.0	-0.2	-1.0	0.6	-2.3	-1.6	2.4	0.9	-0.9
Investment	-2.3	9.7	5.8	-1.1	0.6	7.4	4.8	-5.0	-4.9	3.1	2.6
Residential	7.2	11.6	-4.9	-5.8	-1.1	10.7	-3.1	-17.8	-26.4	1.1	-3.4
Non-residential	-4.9	8.9	9.9	0.6	1.1	6.4	7.9	0.1	3.7	3.5	4.5
Inventories Contribution	-0.7	-3.0	-1.3	2.0	5.1	0.2	0.3	-2.1	-1.0	-0.3	0.6
Net Exports Contribution	-0.2	-1.3	-0.8	-1.3	-0.6	-1.7	-3.8	1.2	3.2	0.6	-1.1
Exports	-13.2	0.4	4.9	-1.1	23.5	6.1	-4.6	13.8	14.4	2.4	5.0
Imports	-9.0	7.6	7.9	6.6	18.6	14.1	18.4	2.2	-6.9	-1.7	9.1
Inflation (3)	1.2	1.9	4.9	5.4	6.7	4.7	8.0	8.7	8.3	8.1	8.3
Euro Area	2020a	Q1:21a	Q2:21a	Q3:21a	Q4:21a	2021a	Q1:22a	Q2:22a	Q3:22a	Q4:22f	2022f
Real GDP Growth (YoY)	-6.3	-0.8	14.2	3.9	4.8	5.3	5.5	4.3	2.1	0.8	3.0
Real GDP Growth (QoQ saar)	-	-0.3	8.2	9.3	2.1	-	2.4	3.3	0.7	-2.3	-
Private Consumption	-7.8	-7.5	13.9	20.2	-0.8	3.7	-0.3	4.2	0.1	-0.6	3.9
Government Consumption	1.0	-0.2	8.7	-0.7	2.7	4.3	0.9	2.4	1.2	1.0	1.9
Investment	-6.5	-9.2	7.2	-2.9	14.3	3.7	-3.1	3.0	1.7	-1.1	2.8
Inventories Contribution	-0.3	2.6	-1.9	-0.1	2.6	0.2	-0.4	-0.5	-0.2	-0.2	0.2
Net Exports Contribution	-0.5	3.4	-0.3	0.2	-3.4	1.3	3.5	0.4	-0.7	-1.8	-0.3
Exports	-9.2	3.7	10.5	8.9	10.6	10.5	6.0	6.9	4.2	-3.5	6.2
Imports	-8.7	-3.4	12.4	9.4	20.1	8.3	-0.9	6.6	6.2	0.0	7.3
Inflation	0.3	1.0	1.8	2.9	4.7	2.6	6.1	8.0	9.3	9.0	8.1
a: Actual, f: Forecasts, 1. Seasonally adjusted YoY	growth rate, 2. S	easonally adju	sted annualiz	ed QoQ grow	th rate, 3. Year	r-to-year aver	age % change				

US	Euro Area	Japan	UK
+ Households' balance sheets are healthy + Service-oriented sectors are re-opening + Sentiment (e.g. AAII) and positioning indicators are hitting extreme lows - Peaking profit margins - Recession risks are increasing - P(Es (Valuations) still remain above l-t means, despite the recent correction	+Still high equity risk premium relative to other regions + Still loose fiscal policy in 2022 (plus RRF) - Geopolitical uncertainty (Ukraine-Russia, natural gas) could intensify - Logistic disruptions (vaccine) and renewed lockdowns in China delay the export-led recovery	+Still aggressive QE and "yield-curve" targeting by the BoJ +JPY depreciation @ 20Y highs (¥130) support exporters - Signs of policy fatigue regarding structural reforms and fiscal discipline - Chinese growth decelaration	+ Significant exposure to commodities + Undemanding valuations in relative terms relative to other regions - Elevated domestic policy uncertainty
Neutral/Negative	Neutral	Neutral	Neutral/Positive
+Valuations appear rich despite the 200bps increase, with term-premium @ 0% (1% for 2000-2015) +Sizeable fiscal deficit +Underlying inflation pressures under Average Inflation Targeting +Fed: End of asset purchases - Global search for yield by non-US investors (e.g. Japan, repatriation from EM Economies) continues - Safe haven demand	+Valuations still appear excessive compared with long- term fundamentals + ECB: End of APP purchases in June 2022, interest rate hikes in H2 - Political Risks - Fragile growth outlook - ECB QE "stock" effect	+Restructuring efforts to be financed by fiscal policy	+Inflation expectations could drift higher due to supply disruptions (persistent post Brexit, temporary due to China) +The BoE is expected to raise rates towards 2% - Slowing economic growth post-Brexit
▲ Slightly higher yields expected	▲ Slightly higher yields expected	Stable yields expected	Slightly higher yields expected
+Weak global growth / Safe-haven demand status + USD interest rate differential vs peers remain significant + Aggresive Fed tightening - Global political uncertainty to decline	+ Current account surplus - Still negative interest rates - Global growth risks remain to the downside	+ 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%	+ Valuations appear undemanding with REER below its 15-year average - Sizeable Current account deficit
Broadly Flat USD against G10 FX	 Broadly Flat/Stronger EUR against the USD 	▲ Slightly higher JPY	Broadly stable GBP expected



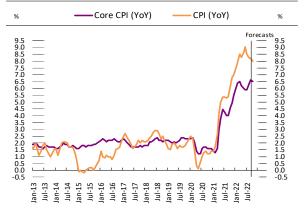
Economic Calendar

In the US, attention turns to inflation data for November. CPI is expected at 8.0% yoy from 8.2% in the previous month, while the core figure is expected at 6.5% yoy from 6.6%.

In the UK, the main macro event next week is the estimate of GDP for Q3:22, which is released on Friday. GDP growth is expected to be lower at -0.4% compared with the previous estimate at -0.2% qoq. The industrial production for August is released on 11/11 (consensus for -4.4% yoy vs -5.2% yoy in the previous month).

In the Euro Area, September's industrial production is due, while on Friday, the European Commission publishes its Autumn economic forecasts.

US Inflation



Source: NBG Research

Economic News Calendar for the period: November 1 - November 14, 2022

UK Nationwide House Px NSA Yoy October 45,0	Tuesday 1					Wednesday 2					Thursday 3				
Contact	US					US		S	Α	Р	US				
Common Management (Charles) (1966) (1							November 2	4.00%	4 00%	3 25%	Continuing Claims (k)	October 22			1438
Common C		October	50.0 +	50.2	50.9							October 29	223	+ 217	218
Machinoride Nozine Pr 150 1707 October 27.2 3.25 Section		Octobor	40 F	40.2	40.1	ADP Employment Change (k)	October	195 +	239	192		Q3:22	4.0%	- 3.5%	8.9%
National Annual Park No. N		October	40.5 +	49.2	4ö. I	1						September	-72.0		
Principle Prin		October		7.2%	9.5%										0.2%
Manage M															56.7
Triaday 4															
Manage Hourly Earning Mode Colorer A P Colorer A												November 3	3.00%	3.00%	2 25%
Memory Manuary Manua													5.0070	5.0070	L.L570
Manufay A												Controller	C C0/	C C0/	6 70/
GERMANY Serving Month September Carboler September Septembe											Unemployment Rate	September	6.6%	6.6%	0.776
GERMANY Serving Month September Carboler September Septembe															
GERMANY Serving Month September Carboler September Septembe															
GERMANY Serving Month September Carboler September Septembe															
GERMANY Serving Month September Carboler September Septembe															
GERMANY Series S. A P.															
Compage Noting Section Compage Compa															
Autority				Α											
Average weekly hours (Prist)								-0.8% +							
Canage in Norifam Payrolls (s)	Average Hourly Earnings YoY						September	0.5% +	2.6%	1.6%					
Complete Private Pri							October	-0.5%	-0.7%	0.2%					
Company											1				
Labor Force Participation Rate						Exports (101)	October	4.5% -	-0.5%	5.7%	1				
Tuesday 8	Labor Force Participation Rate		3.070 +			1					1				
United Manager Manag			6.8%			1					1				
Truesday 8	UK	CCLODE	0.070	5.070	0.170	1					1				
Treesday 8		0-4-6-	40.0	F2.2	50.0	1					1				
EURO AREA S		October	49.0 +	53.2	52.3										
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S															
EURO AREA S	Tuesday 8					Wednesday 9					Thursday 10				
ApaPaPa	EURO AREA			Α		US		S	Α		us			Α	
JAPAN					-0.3%	Wholocalo trado	Sentember			0.1%	CPI (YoY)	0-4-1	0.007		8 2%
Caincident Index	Retail sales (MoM)		0.4%			Wilolesale trade	September								
Leading Index	Retail sales (YoY)				-2.0%	JAPAN	September				Core CPI (YoY)	October	6.5%		6.6%
New Youn Loans (RMB bn)	Retail sales (YoY)	September		-	-2.0%	JAPAN Eco Watchers Current Survey					Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
New Yuan Loans (RMB bn)	Retail sales (YoY) JAPAN Coincident Index	September September	-1.2% 	-	-2.0% 101.8	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500	 	6.6% 1485
Money Supply MD (YOY)	Retail sales (YoY) JAPAN Coincident Index Leading Index	September September	-1.2% 		-2.0% 101.8	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Money Supply M1 (YoY) October 6.6% 6.4% Money Supply M2 (YoY) October 12.0% 12.1% Friday 11 US S A P University of Michigan consumer confidence UK GDP (QOC) GDP (YOY) GOVERNMENT Spending QOQ GOVERNMENT GOVERNMENT CONFIDENCE CONFIDE	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA	September September September	-1.2% 100.9	-	-2.0% 101.8 101.3	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Friday 11	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn)	September September September October	-1.2% 100.9	-	-2.0% 101.8 101.3 2471	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Friday 11 US S A P University of Michigan consume confidence W GDP (QCO) GOBY	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY)	September September September October October	-1.2% 100.9 	-	-2.0% 101.8 101.3 2471 13.6%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500	 	6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500	 	6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500	 	6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500	-	6.6% 1485
University of Michigan consumer confidence University of Michigan consumer confidence UNOVERDITE CONFIDENCE CO	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN Eco Watchers Current Survey CHINA	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
University of Michigan consumer confidence November	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY)	September September September October October October	-1.2% 100.9 6.6%	-	-2.0% 101.8 101.3 2471 13.6% 6.4%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY)	October			48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
confidence UK GIP (QoQ) Q3:22 -0.4% 0.2% GOP (YoY) GOVENTIAL Production (Mod) September -0.3%1.5% Industrial Production (MoM) September -0.3%1.8% Industrial Production (YoY) September -4.4%5.2% EURO AREA European Commission publishes Autumn Economic Forecasts	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY)	September September September October October October	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN Ero Watchers Current Survey CHINA CPI (YoY) Monday 14	October	2.5%		48.4	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
UK GDP (QOC) GDP (QOC) GDP (YOY) GS-22 GDP (YOY) GS-22 GOF (YOY) GOVERNMENT Spending QOC GS-22 GOF (YOY) GOVERNMENT Spending QOC GS-22 GOF (YOY) GOVERNMENT SPENDING YOUNG SPENDER GOVERNMENT SPENDING YOUNG SPENDER GOVERNMENT SPENDING YOUNG YOUNG SPENDING YOUNG Y	Retail sales (Yo'Y) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (Yo'Y) Money Supply M1 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M2 (Yo'Y) Friday 11 US	September September September October October October	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA	October	 2.5%	 	48.4 2.8%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
GDP (OO) Q3:22 -0.4% 0.2%	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Friday 11 US University of Michigan consumer	September September September October October October	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
GDP (YoY) — Q3:22 2.1% 4.4% Government Spending QoQ Q3:22 0.5%1.5% Industrial Production (MoM) September -0.3%1.8% Industrial Production (YoY) September -4.4%5.2% EURO AREA European Commission publishes Autumn Economic Forecasts	Retail sales (Yo'Y) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (Yo'Y) Money Supply M1 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M2 (Yo'Y) University of Michigan consumer confidence	September September September October October October	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Government Spending QoQ Q3:22 0.5%1.5% Industrial Production (MoM) September -0.3%1.8% Industrial Production (YoY) September -4.4%5.2% EURO AREA European Commission publishes Autumn Economic Forecasts	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Friday 11 US University of Michigan consumer confidence UK	September September October October October November	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Industrial Production (MoM) September -0.3%1.8% Industrial Production (YoY) September -4.4%5.2% EURO AREA European Commission publishes Autumn Economic Forecasts	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Friday 11 US University of Michigan consumer confidence UK GDP (CoQ)	September September September October	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Industrial Production (YoY) September -4.4%5.2% EURO AREA European Commission publishes Autumn Economic Forecasts Source: NBG Research	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOC) GDP (YOY)	September September September October	-1.2% 100.9 6.6% 12.0%		-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
EURO AREA European Commission publishes Autumn Economic Forecasts Source: NBG Research	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Friday 11 US UNiversity of Michigan consumer confidence UK GDP (QoO) GDP (YoY) GOVERNAMING AND A CONTROLLED TO CONT	September September September October	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
European Commission publishes Autumn Economic Forecasts Source: NBG Research	Retail sales (Yo'Y) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (Yo'Y) Money Supply M1 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M2 (Yo'Y) Friday 11 US University of Michigan consumer confidence UK GDP (Qo'Q) GDP (Yo'Y) Government Spending QoQ Industrial Production (MoM)	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Autumn Economic Forecasts Source: NBG Research	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Friday 11 US UNiversity of Michigan consumer confidence UK GDP (QoQ) GDP (YoY) GOVENMENT Spending QoQ Industrial Production (MoM) Industrial Production (MoM) Industrial Production (MoM)	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research	Retail sales (Yo'Y) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (Yo'Y) Money Supply M1 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M2 (Yo'Y) Money Supply M3 (Yo'Y) Money Supply M4 (Yo'Y) Money Supply M6 (Yo'Y) Money Supply M6 (Yo'Y) Money Supply M7 (Yo'Y) Money Supply M8 (Yo'Y) Money Supply M8 (Yo'Y) Money Supply M8 (Yo'Y) Money Supply M8 (Yo'Y) M9 (Yo'Y) Government Spending QoQ Industrial Production (MoM) Industrial Production (Yo'Y) EURO AREA	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research S. Consensus Analysts Surger, At-Actual Outcome P. Previous Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOQ) GDP (YOY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YOY) EURO AREA European Commission publishes	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research S. Consensus Analysts Sursey. 4: Actual Outcome P. Previous Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOQ) GDP (YOY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YOY) EURO AREA European Commission publishes	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research S. Consensus Analyst's Surgey. A: Actual Outcome P. Previous Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOQ) GDP (YOY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YOY) EURO AREA European Commission publishes	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research Scorpensus Analyst's Survey At Actual Outcome P. Previous Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOQ) GDP (YOY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YOY) EURO AREA European Commission publishes	September September September October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source NBG Research SC Consensus Analysis Survey 4: Actual Outcome P Presions Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YOY) Money Supply M2 (YOY) Friday 11 US University of Michigan consumer confidence UK GDP (GOQ) GDP (YOY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YOY) EURO AREA European Commission publishes	September September September October October October October October October October October October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research SC Consensus Analysts Sunsey A: Actual Outcome P: Previous Outcome	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Money Supply M2 (YoY) Money Supply M3 (YoY) Money Supply M4 (YoY) Money Supply M6 (YoY) Money Supply M7 (YoY) Money Supply M7 (YoY) Money Supply M8 (YoY) Money Supply M8 (YoY) Money Supply M9 (YoY) Money Supply M9 (YoY) Money Supply M9 (YoY) Money Supply M9 (YoY) M9 (M9 (M9 (YoY) M9 (M9 (M9 (YoY) M9 (M9 (M9 (M9 (YOY) M9 (M9 (M9 (M9 (YOY) M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (September September September October October October October October October October October October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
Source: NBG Research Source: NBG Research Source: NBG Research Source: NBG Research	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Money Supply M2 (YoY) Money Supply M3 (YoY) Money Supply M4 (YoY) Money Supply M6 (YoY) Money Supply M7 (YoY) Money Supply M8 (YoY) Money Supply M9 (YoY) M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (M9 (September September September October October October October October October October October October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485
	Retail sales (YoY) JAPAN Coincident Index Leading Index CHINA New Yuan Loans (RMB bn) Money Supply M0 (YoY) Money Supply M1 (YoY) Money Supply M2 (YoY) Money Supply M2 (YoY) Friday 11 US University of Michigan consumer confidence UK GDP (YoO) GDP (YoY) Government Spending QoQ Industrial Production (MoM) Industrial Production (YoY) EURO AREA European Commission publishes Autumn Economic Forecasts	September September September October October October October October October October October October September October Octobe	-1.2% 100.9 6.6% 12.0%	A	-2.0% 101.8 101.3 2471 13.6% 6.4% 12.1%	JAPAN ECO Watchers Current Survey CHINA CPI (YOY) Monday 14 EURO AREA Industrial Production (sa, MoM)	October October	2.5% S	 	48.4 2.8% P 1.5%	Core CPI (YoY) Continuing Claims (k)	October October 29	6.5% 1500		6.6% 1485

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



Developed N	/arkote	Current	1-week	Year-to-Date	1-Year	2-year	Emerging Markets	Current	1-week	Year-to-Date	1-Year	2-year
Developed iv	iarkets	Level	change (%)	change (%)	change (%)	change (%)	Emerging Markets	Level	change (%)	change (%)	change (%)	change (%)
US	S&P 500	3771	-3.3	-20.9	-19.4	9.5	MSCI Emerging Markets	54687	4.2	-21.9	-23.9	-15.3
Japan	NIKKEI 225	27200	0.3	-5.5	-8.7	14.8	MSCI Asia	810	5.0	-24.3	-26.3	-20.7
UK	FTSE 100	7335	4.1	-0.7	0.8	24.7	China	54	10.7	-35.2	-40.8	-48.7
Canada	S&P/TSX	19450	-0.1	-8.4	-8.9	21.6	Korea	708	2.9	-22.3	-21.3	-4.0
Hong Kong	Hang Seng	16161	8.7	-30.9	-35.9	-35.1	MSCI Latin America	95892	2.9	3.9	4.0	15.5
Euro area	EuroStoxx	399	1.6	-16.6	-17.1	12.7	Brazil	323949	2.2	5.7	5.8	4.9
Germany	DAX 40	13460	1.6	-15.3	-16.0	9.2	Mexico	48270	4.6	-3.3	0.4	39.5
France	CAC 40	6416	2.3	-10.3	-8.2	30.3	MSCI Europe	2515	5.6	-63.7	-66.5	-49.7
Italy	FTSE/MIB	23282	3.3	-14.9	-15.4	20.3	Russia*	2156	-0.5	-43.1	-48.5	-22.6
Spain	IBEX-35	7943	0.3	-8.8	-12.1	17.1	Turkey	4260208	7.8	105.0	139.8	215.2

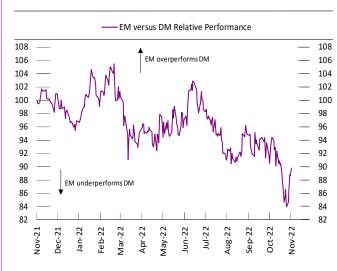
in US Dollar terms	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	in local currency	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)
Energy	254.9	2.8	46.1	41.1	150.9	Energy	272.7	3.1	54.0	49.4	162.2
Materials	286.1	1.2	-20.6	-17.4	2.8	Materials	294.0	1.4	-13.8	-9.8	11.8
Industrials	283.1	0.5	-19.2	-19.5	4.5	Industrials	302.0	0.6	-12.9	-12.7	14.5
Consumer Discretionary	295.4	-3.4	-33.1	-35.3	-11.3	Consumer Discretionary	300.5	-3.3	-29.7	-31.7	-5.5
Consumer Staples	254.7	-0.9	-13.1	-9.8	2.0	Consumer Staples	268.9	-0.6	-7.7	-3.9	8.9
Healthcare	327.6	-1.1	-11.4	-9.5	9.1	Healthcare	335.2	-0.9	-7.7	-5.6	14.2
Financials	125.1	0.7	-16.3	-18.4	25.8	Financials	131.7	8.0	-11.4	-13.2	33.2
IT	380.6	-6.8	-33.5	-32.0	-3.8	IT	376.0	-6.7	-32.3	-30.6	-1.4
Telecoms	63.9	-6.0	-40.2	-42.4	-26.2	Telecoms	69.0	-6.0	-38.2	-40.4	-23.2
Utilities	142.5	-0.4	-13.2	-8.6	-3.9	Utilities	152.3	-0.2	-9.1	-3.7	1.4

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	10-year average
US	4.16	4.02	1.51	1.52	2.12	US Treasuries 10Y/2Y	-57	-51	78	109	100
Germany	2.29	2.09	-0.18	-0.23	0.45	US Treasuries 10Y/5Y	-17	-18	25	42	50
Japan	0.25	0.23	0.07	0.07	0.20	Bunds 10Y/2Y	18	19	46	49	81
UK	3.56	3.44	0.97	0.93	1.46	Bunds 10Y/5Y	13	11	28	34	55
Greece	4.69	4.52	1.32	1.10	5.55						
Ireland	2.78	2.51	0.25	0.16	1.37	Corporate Bond Spreads (in	Current	Last week	Year Start	One Year	10-year
Italy	4.45	4.17	1.17	0.93	2.20	bps)	Current	Last week	rear Start	Back	average
Spain	3.35	3.15	0.57	0.45	1.74	EM Inv. Grade (IG)	211	211	139	147	191
Portugal	3.26	3.05	0.46	0.35	2.49	EM High yield	792	829	618	710	624
						US IG	161	166	98	90	133
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	477	454	310	319	449
30-Year FRM ¹ (%)	7.06	7.16	3.31	3.24	4.11	Euro area IG	208	217	98	90	119
vs 30Yr Treasury (bps)	277.5	299.0	138.9	125.7	136.9	Euro area High Yield	566	588	331	332	406

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 (%)	Year-to-Date change (%)
Euro-based cross rates											
EUR/USD	0.99	-0.5	0.4	-14.3	-13.0	Agricultural	474	3.3	-0.9	10.3	6.6
EUR/CHF	0.99	-0.4	1.7	-6.3	-4.7	Energy	337	5.5	3.5	24.9	33.6
EUR/GBP	0.88	2.2	0.1	2.5	4.5	West Texas Oil (\$/bbl)	93	5.4	5.5	17.5	23.1
EUR/JPY	145.71	-0.7	2.1	11.1	11.3	Crude brent Oil (\$/bbl)	99	2.9	5.6	22.4	26.7
EUR/NOK	10.18	-1.0	-2.8	3.0	1.5	HH Natural Gas (\$/mmbtu)	6.4	27.5	9.6	11.7	67.5
EUR/SEK	10.85	-0.6	0.2	9.5	5.4	TTF Natural Gas (EUR/mwh)	115	2.3	-33.9	56.4	63.2
EUR/AUD	1.54	-1.0	0.6	-1.4	-1.7	Industrial Metals	429	6.1	2.2	-9.0	-14.0
EUR/CAD	1.34	-1.1	-0.8	-7.0	-6.8	Precious Metals	2187	2.5	-2.2	-7.2	-8.6
USD-based cross rates						Gold (\$)	1681	2.3	-2.0	-6.2	-7.7
USD/CAD	1.35	-0.6	-1.2	8.6	7.1	Silver (\$)	21	8.4	0.9	-12.3	-10.0
USD/AUD	1.55	-0.4	0.2	15.0	13.0	Baltic Dry Index	1323	-13.8	-33.7	-52.2	-40.3
USD/JPY	147.25	-0.2	1.7	29.6	27.9	Baltic Dirty Tanker Index	1836	0.7	26.0	130.1	133.6

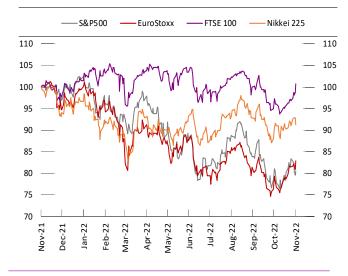






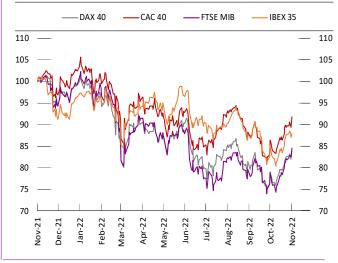
Data as of November 4th – Rebased @ 100

Equity Market Performance - G4



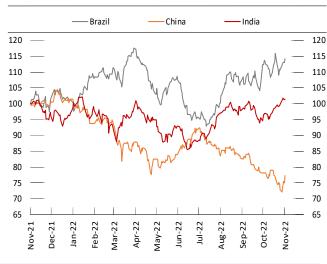
Data as of November 4th - Rebased @ 100

Equity Market Performance - Euro Area G4



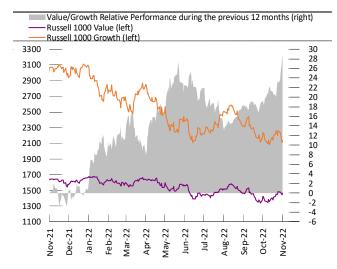
Data as of November 4th – Rebased @ 100

Equity Market Performance – Emerging Markets



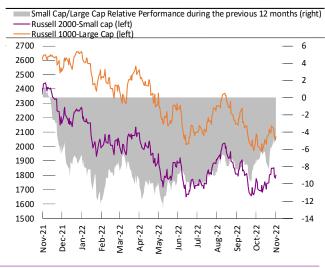
Data as of November 4th – Rebased @ 100

Russell 1000 Value & Growth Index



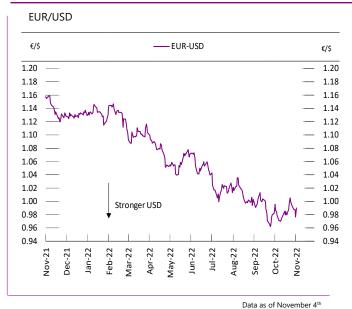
Data as of November 4th

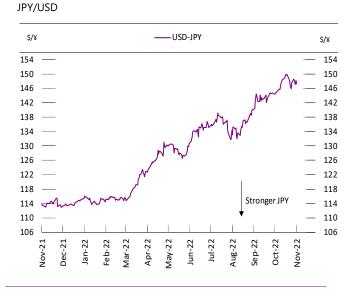
Russell 2000 & Russell 1000 Index



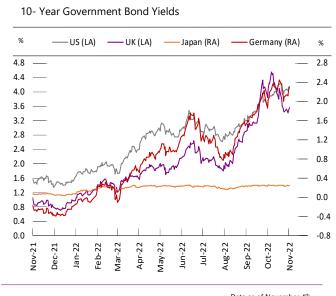
Data as of November 4th

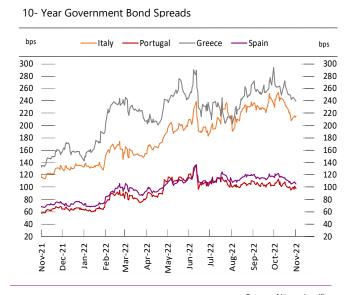






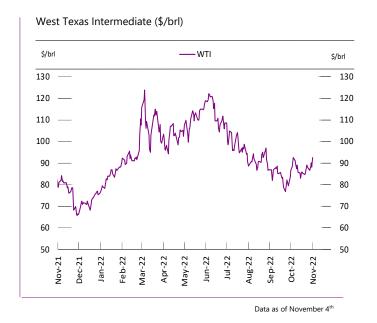
Data as of November 4th

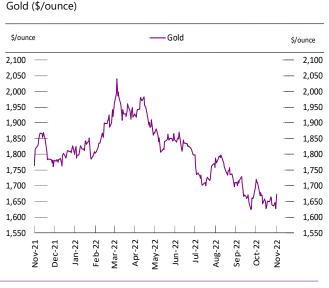




Data as of November 4th LA:Left Axis RA:Right Axis







Data as of November 4th



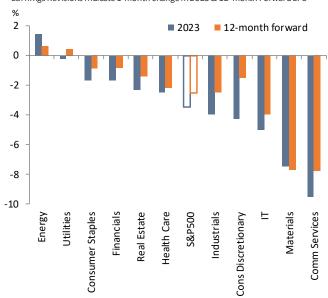
US Sectors Valuation

		Price (\$)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/BV R	atio	
	4/11/22	% Weekly Change	%YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
S&P500	3771	-3.3	-20.9	5.9	6.0	1.7	1.8	17.3	16.3	16.4	17.3	3.7	3.4	3.4	3.0
Energy	702	2.4	66.1	156.8	-13.3	3.0	2.9	8.8	10.2	10.0	19.4	2.5	2.3	2.3	1.7
Materials	474	0.9	-16.7	6.5	-9.3	2.2	2.3	13.8	15.2	15.0	16.2	2.7	2.5	2.5	2.7
Financials															
Diversified Financials	922	-1.9	-15.7	-14.1	10.0	1.7	1.9	15.6	14.1	14.4	15.0	1.9	1.7	1.7	1.6
Banks	340	0.7	-18.7	-17.2	15.4	3.1	3.3	10.6	9.2	9.4	11.5	1.2	1.1	1.1	1.1
Insurance	577	-1.0	4.8	-13.4	29.7	1.9	2.1	16.6	12.8	13.4	11.9	2.1	1.9	1.9	1.3
Real Estate	227	-1.8	-30.2	10.6	3.6	3.9	3.8	16.4	15.8	15.9	18.7	2.6	2.8	2.7	3.3
Industrials															
Capital Goods	845	1.2	-5.2	13.1	17.7	1.7	1.9	21.3	18.1	18.6	17.4	4.9	4.4	4.5	4.0
Transportation	873	-0.6	-22.6	124.8	8.5	2.1	2.2	14.7	13.6	N/A	14.0	5.0	4.2	4.3	4.2
Commercial Services	471	-2.6	-13.3	9.4	6.9	1.1	1.2	27.7	25.9	26.2	23.6	5.8	5.3	5.4	4.3
Consumer Discretionary															
Retailing	2749	-8.0	-35.0	-38.9	49.3	0.9	1.0	36.1	24.2	26.1	27.7	9.8	8.1	8.4	9.3
Consumer Services	1262	0.3	-16.4	N/A	163.6	1.2	1.4	59.7	22.7	N/A	35.9	116.4	76.0	N/A	12.3
Consumer Durables	318	-0.7	-40.4	4.5	-10.7	2.1	2.1	10.7	12.0	11.8	17.0	2.6	2.4	2.4	3.4
Automobiles and parts	119	-7.0	-40.0	29.2	10.9	0.3	0.4	24.2	21.8	N/A	16.1	4.8	4.1	4.2	2.9
IT															
Technology	2631	-9.3	-22.9	6.0	3.9	1.0	1.0	20.2	19.5	19.6	15.8	14.9	13.2	13.5	7.0
Software & Services	2665	-7.5	-31.5	10.0	10.9	1.1	1.2	22.9	20.7	21.0	21.8	7.3	6.2	6.4	6.3
Semiconductors	1583	-0.6	-39.8	-3.8	-5.0	1.8	1.9	15.7	16.5	16.4	15.6	4.1	3.9	3.9	3.9
Communication Services	152	-7.4	-43.0	-16.1	10.9	1.1	1.2	15.0	13.5	13.8	19.0	2.5	2.2	2.3	3.2
Media	575	-8.6	-46.9	-16.3	11.4	0.4	0.5	16.6	14.9	15.1	22.4	2.8	2.5	2.6	3.7
Consumer Staples															
Food & Staples Retailing	640	-2.8	-8.7	0.1	7.7	1.6	1.6	22.7	21.1	21.4	18.6	4.8	4.5	4.5	3.7
Food Beverage & Tobacco	830	-1.8	1.6	4.6	3.0	3.1	3.3	19.3	18.7	18.8	18.5	5.3	5.0	5.0	5.0
Household Goods	771	-0.9	-21.0	-3.4	4.6	2.6	2.7	24.2	23.2	23.3	21.6	9.3	9.2	9.2	7.0
Health Care															
Pharmaceuticals	1233	-1.4	-5.1	4.4	-8.0	1.9	2.0	14.7	15.9	15.7	15.4	5.3	4.7	4.8	4.4
Healthcare Equipment	1799	-1.9	-10.2	3.6	5.7	1.2	1.3	19.2	18.1	18.3	17.0	3.9	3.5	3.6	3.0
Utilities	341	-0.6	-6.4	2.1	7.1	3.1	3.3	19.0	17.8	18.0	17.1	2.0	2.0	2.0	1.8

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 2023 & 12-month Forward EPS

Earnings Revisions indicate 1-month change in 2023 & 12-month Forward EPS



12-month revisions to 2023 & 12-month Forward EPS

Earnings Revisions indicate 12-month change in 2023 & 12-month Forward EPS % 30 ■ 2023 ■ 12-month forward 20 10 0 -10 -20 -30 Energy Utilities S&P500 Consumer Staples Real Estate Financials Materials Health Care Industrials Cons Discretionary Comm Services

Data as of November 4^{th} 12-month forward EPS are 15% of 2022 EPS and 85% of 2023 EPS

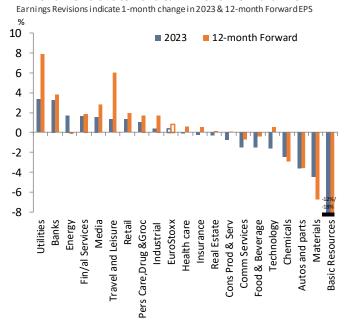


Euro Area Sectors Valuation

		Price (€)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/E	BV Ratio	
	4/11/22	% Weekly Chang	e %YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
EuroStoxx	399	1.6	-16.6	16.0	3.9	3.4	3.6	12.3	11.8	11.9	14.7	1.5	1.4	1.5	1.5
Energy	342	5.5	18.5	139.0	-18.2	5.3	4.7	5.0	6.1	5.9	13.0	1.2	1.1	1.1	1.2
Materials	929	2.0	-10.9	12.0	-27.0	3.2	3.1	10.4	14.3	13.7	15.7	1.6	1.5	1.5	1.7
Basic Resources	222	3.7	-10.6	0.5	-51.7	3.2	3.3	4.0	8.4	7.7	9.8	0.6	0.6	0.6	0.8
Chemicals	1352	1.8	-11.0	20.0	-14.7	3.2	3.1	13.6	16.0	15.6	16.8	2.1	2.0	2.0	2.2
Financials															
Banks	91	4.1	-9.4	11.2	3.9	6.6	7.2	7.0	6.7	6.8	9.9	0.6	0.5	0.6	0.7
Insurance	291	2.3	-4.9	-13.5	33.5	5.8	6.2	11.2	8.4		9.7	1.2	1.1	1.1	0.9
Financial Services	476	-1.3	-17.7	39.1	-9.5	3.2	3.3	10.2	11.3	11.1	16.1	1.2	1.1	1.1	1.3
Real Estate	132	2.8	-40.6	6.7	2.6	6.5	7.3	10.2	10.0	10.0	17.0	0.5	0.5	0.5	1.0
Industrials															
Industrial Goods & Services	940	0.2	-19.7	20.0	10.8	2.4	2.7	17.0	15.3	15.6	17.4	2.4	2.2		2.6
Construction & Materials	458	1.5	-15.7	-4.5	1.5	3.9	4.1	11.5	11.4	11.4	14.8	1.5	1.4	1.4	1.5
Consumer Discretionary															
Retail	465	1.9	-32.8	-3.7	7.4	4.6	4.9	19.3	18.0	18.2	26.0	3.8	3.7	3.7	5.6
Automobiles and parts	504	1.3	-20.1	18.2	-15.6	6.5	5.9	4.6	5.4	5.3	8.0	0.7	0.7	0.7	1.0
Travel and Leisure	184	1.0	-5.1	N/A	43.0	1.1	1.2	23.7	16.6	N/A	N/A	2.1	2.0	2.0	2.2
Consumer Products & Services	411	3.5	-22.0	8.2	13.3	1.7	1.9	26.6	23.4	23.9	24.8	5.6	5.0	5.1	4.2
Media	248	-2.5	-13.2	18.9	17.1	2.6	2.8	19.6	16.8	17.2	18.5	2.6	2.5	2.5	2.2
Technology	672	-0.5	-31.6	-0.4	21.2	1.3	1.4	22.2	18.3	18.9	21.9	3.0	2.8	2.8	3.7
Consumer Staples															
Food, Beverage & Tobacco	162	1.0	-15.8	15.3	9.9	1.9	2.2	18.2	16.5	16.8	20.1	2.0	1.8	1.8	2.6
Personal Care, Drug & Grocery	170	1.4	-15.5	3.0	7.6	2.6	2.8	15.5	14.4	14.6	17.6	2.2	2.1	2.1	2.3
Health care	766	0.7	-17.9	9.6	6.3	2.5	2.6	14.9	14.0	14.2	16.7	1.9	1.8	1.8	2.3
Communication Services	272	1.6	-5.8	22.3	7.6	4.2	4.5	14.6	13.5	13.7	15.4	1.4	1.4	1.4	1.7
Utilities	333	1.1	-15.5	-53.6	123.5	4.6	5.0	27.0	12.1	14.4	14.1	1.6	1.5	1.5	1.3

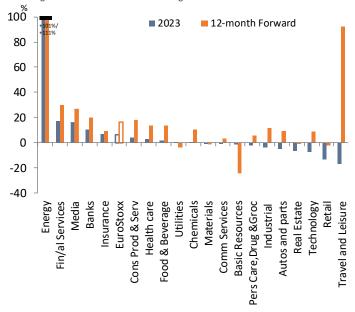
Blue box indicates a value more than +2standard devation from average, light blue a value more than +1standard devation from average. Orange box indicates a value less than -2standard devation from average, light orange a value less than -1standard devation from average

1-month revisions to 2023 & 12-month Forward EPS



12-month revisions to 2023 & 12-month Forward EPS

Earnings Revisions indicate 12-month change in 2023 & 12-month Forward EPS



Data as of November 4^{th} 12-month forward EPS are 15% of 2022 EPS and 85% of 2023 EPS

Data as of November 4th

12-month forward EPS are 15% of 2022 EPS and 85% of 2023 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.