Global Markets Roundup



National Bank of Greece | Economic Research Division | December 13, 2022

The December calendar for central banks' meetings (FED, ECB, BoE, BoJ) is likely to shape investors' expectations for monetary policy in 2023

- Global equity markets lost ground in the past week, mainly due to profit-taking ahead of major central bank meetings. The S&P500 fell by -3.4% wow, followed though by an increase of +1.4% on Monday December 12th. Softer-than-expected US CPI data on Tuesday (+7.1% yoy vs +7.5%) supported equities further.
- Note that price-to-earnings multiples of 17.1x (12-month forward) remain significant above the long-term average ratio (15.5x), suggesting that equity investors are relative optimistic. On the other hand, the inverted US Treasury yield curve signals stresses ahead (10Y/3m US Treasury: -66 bps, see graph below). In our view, equity and bond volatility is set to continue until inflation data allow central banks to, at least, slow tha pace of rate increases (see graphs page 3).
- The Federal Reserve on December 14th is likely to decelerate the pace of interest rate hikes to +50 bps, instead of +75 bps steps in each of the past four meetings, to a range of 4.25% 4.5%. New economic projections, including the appropriate path for FFR, and Chair Powell's comments will be top of mind for investors.
- In September, the median FFR pointed to 4.6% by end-2023, with Chair Powell having hinted at a probable upward revision due to, *inter alia*, stronger inflation, with a significant risk of a 50-bps upward shift to 5.125%. PCE inflation is on a path to average +5.8% yoy in Q4:2022 versus a FOMC projection in September of +5.4% yoy and +2.8% yoy in Q4:2023.
- Revisions to 2023 real GDP will likely indicate weaker economic activity. The median FOMC projection in September for US GDP growth pointed to +1.2% year-over-year growth in Q4:2023, with a significant risk of declining around +0.5%.
- On the other side of the Atlantic, the interest rate hike size is a close call (+50 bps vs +75 bps) after steps of +75 bps in the previous two ECB meetings (current Deposit Facility Rate: +1.5%, Main Refinancing Operation Rate: +2%, three-month Euribor: +2.05%).
- Guidelines on the reinvestment policy of the APP portfolio -- current holdings of €3.25 trillion or 25% of euro area GDP -- are likely to be released. The quarterly ECB economic projections will also be watched, particularly for inflation. In September, CPI inflation was projected at +8.1% yoy on average in 2022 and +9.2% in Q4:2022 (average so far in 2022: +8.3% and average so far in Q4:2022: +10.3%), before decelerating to +5.5% in 2023 and to +2.3% in 2024 (target: +2%).
- Lower natural gas prices (45% of euro area Energy CPI, including electricity prices), lower brent crude oil prices (45% of euro area Energy CPI), the appreciation of the euro exchange rate, as well as downward revisions to real GDP growth (2023: +0.9% in September) could support inflation returning to target by the end of the forecasting horizon. Note that current market pricing for natural gas and oil prices has decreased by -39% and -11%, respectively, compared with September's assumptions (€121/MWh for 2023/2024 versus €200/MWh in September and \$77 per barrel for 2023/2024 versus \$87 per barrel in September). In a similar vein (negative for inflation), EUR/USD market pricing has moved up to 1.08 for 2023/2024 versus 1.01 in September (+7%).

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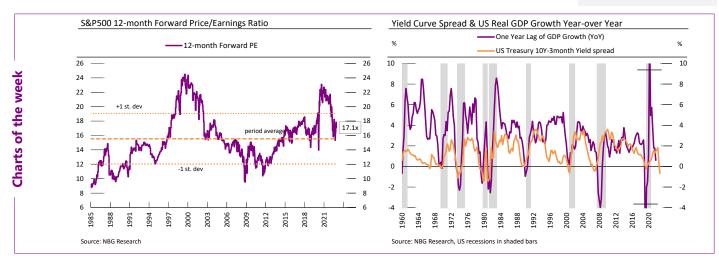
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The US goods trade deficit widened in October

- Goods exports, in constant price terms, fell for a 2nd consecutive month in October (-2.5% mom following a -1.2% mom in September), whereas imports of goods moved in opposite direction (+1.6% mom from +2.0% mom). Recall that compared with pre-pandemic (February 2020) levels, exports stood at +5.3% versus +22.3% for imports, in view of relatively stronger domestic demand compared with major trading partners. Overall, the (goods) trade deficit in constant price terms stood at \$112.6 bn in October, from \$104.3 bn in the previous month (and \$101.5 bn on average in Q3:22). In nominal terms, the goods trade deficit was \$99.6 bn, from \$93.5 in September (and \$90.4 bn on average in Q3:22). As percent of GDP, on a 12-month rolling basis, i.e. the 12-month sum of the goods trade deficit divided by the average of the last four quarterly (annualized) GDP readings, the trade deficit stood at an elevated -4.9% of GDP, close to the widest since 2009 (-5.0%) reported in July 2022.
- Note that the aforementioned ratio, had hovered in a tight range of -4.0% to -4.3% since 2013 (and up to the pandemic). By country, the bilateral (goods) trade deficit in nominal terms with China remains by far the largest (\$28.9 bn in October and 12-month average of \$33.9 bn | \$31.3 bn, on average per month in 2017, before the imposition of bilateral tariffs), followed by Mexico (\$12.4 bn in October and \$12-month average of \$10.7 bn).

US November PMIs were mixed, with services moving higher and manufacturing declining further

- PMIs diverged sector-wise in November. In the event, the ISM manufacturing PMI fell by -1.2 pts to 49.0, undershooting consensus estimates for 49.8 and below the expansion/contraction threshold of 50.0 for the first time since May 2020. Importantly, the relatively more forward-looking index of new orders underperformed, -2.0 pts to 47.2 pts. The ISM services PMI increased substantially, by 2.1 pts to a solid 56.5, well above expectations for 53.3 (new orders: -0.5 pts to a still robust 56.0).
- The aforementioned surveys painted a mixed picture also on pipeline price pressures, with the prices paid index declining by 3.6 pts to 43.0 in the manufacturing survey (below the expansion/contraction threshold of 50.0 for a 2nd consecutive month), whereas remaining at particularly elevated levels of 70.0 (even with a modest easing from 70.7 in October) in its services peer.
- In all, the Atlanta Fed's GDPNowcast model points to +3.2% qoq saar (+1.0% yoy) for GDP in Q4:22, from +2.9% qoq saar (+1.9% yoy) in Q3:22.

Euro area economic performance in Q3:2022 was slightly revised up in the final GDP estimate

- The 3rd estimate for euro area GDP growth in Q3:22 (the first including analytical breakdown per expenditure component) came out at +0.3% gog (+1.3% in annualized terms), versus +0.2% qoq (+0.8% annualized) in the previous estimate (above consensus estimates for an unrevised reading) and following a +0.8% qoq (+3.2% annualized) in the previous quarter. The annual growth was +2.3% from +4.2% in Q2:22. Private consumption rose by 0.9% qoq (+1.7% yoy), after a +1.0% qoq (+5.4% yoy) in Q2:22, with both outcomes being boosted by the (largely free of pandemic-related restrictions) tourism season and added +0.4 pps to headline growth. The major contribution (+0.8 pps) came from capital formation, which increased by +3.6% qoq (+7.4% yoy), with strong business investment (+5.1% qoq | +9.5% yoy), more than offsetting a fall in residential investment (-0.7% gog | +1.2% yoy). At the same time, inventories (including acquisitions less disposals of valuables) added further +0.2 pps, while government consumption posed a minor contribution to overall growth, up by +0.1% qoq (+0.4% yoy). On the other hand, net exports subtracted 1.1 pp, as imports (+4.3% qoq | +10.8% yoy) outpaced exports (+1.7% qoq | +7.7% yoy).
- Notably, the aforementioned sharp rise for both business investment and imports was heavily distorted to the upside by erratic (related to activities of multinational corporations) data for Ireland (+100% qoq & +27% qoq, respectively). Recall that excluding Ireland, euro area business investment would have risen by +0.6% qoq, imports by +2.3% qoq and overall GDP by +0.2% qoq (Irish GDP increased by +2.3% qoq).

Euro area retail sales fell substantially in October

Retail sales were roughly in line with consensus estimates in October, down by -1.8% mom (in seasonally adjusted volume terms | -2.6% yoy), from an upward revised (by +0.4 pps) +0.8% mom in September (stable on a year-over-year basis). Compared with the average in Q3:22, retail sales were at -1.3% in October. On the other hand, new passenger car registrations rose by +1.7% mom (+14.9% yoy) in October, after a + 7.4% mom in September (+10.5% yoy) and stood at +10.4% compared with the Q3:22 average (seasonally adjusted data). Note that car sales are not included in the aforementioned retail sales report.

China's external trade data disappointed in November

• Both exports and imports substantially deteriorated in November, well below consensus estimates. Specifically, the annual pace of growth of exports -- in USD terms - came out at -8.7%, from -0.3% in October, versus expectations for -3.6% yoy. At the same time, total imports came out at -10.6% yoy compared with -0.7% yoy in October, versus expectations for -5.0% yoy. In all, the latest data suggest that the impetus for demand eased in November, both domestically and abroad, albeit the latest reading could also be weighed by operational challenges stemming from pandemic-related restrictions.



Equities

• Global equity markets lost ground in the past week, in view of economic growth pessimism and profit-taking. Overall, the MSCI ACWI ended the week lower by 2.2% wow (-18% ytd), with Developed Markets underperforming their Emerging Markets peers (-2.6% wow vs +0.5% respectively). The latter has been benefited by the overperformance of Chinese Equities (CSI 200: +3.3% | MSCI China: +6.6%) on further easing of Covid policy. In addition, President Xi set a more pro-growth tone for 2023 policy stance. Note that in the upcoming Central Economic Work Conference (which is usually held one week after the December Politburo meeting), policymakers are set to discuss the economic targets for 2023, though these targets will not be officially announced until the "Two Sessions" next year. Recall that 2022 growth target was "around 5.5%".

The S&P500 fell by 3.4% wow (-18% ytd), albeit it rose by +1.4% on Monday. All sectors ended the week in red, with the Energy (-8.4% wow) and Communication Services (-5.4% wow) recording the biggest losses. On the other side of the Atlantic, the EuroStoxx fell by 1% wow (-12% yoy) and by a further 0.5% on Monday, with the Energy sector underperforming (-3.1% wow). In Germany, the DAX40 index fell by 1.1% wow and has declined by c. -10% since the beginning of the year. Given its international exposure (<20% of its revenues derived from Germany), the index could have benefited from the EUR decline (-7% against the USD), instead it was under pressure given its exposure to the Chinese consumers, Russian energy, and global trade. In Italy, FTSE MIB fell by 1.4% wow. Italian equities (40% of their revenues derived from Italy) have modestly underperformed year-to-date (-11%) as sovereign spreads have widened (+64 bps ytd) and funding costs for corporates have increased (see Graph 3).

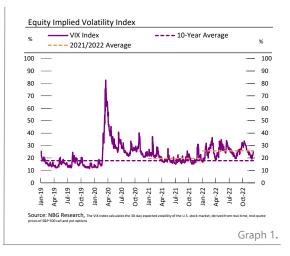
Fixed Income

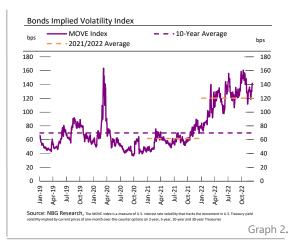
• Government bond yields were moderately up in the past week, mainly on Friday, due to stronger-than-expected economic data. Specifically, the US Treasury 10-year yield ended the week up by 5 bps to 3.56%, while its 2-year peer rose by 6 bps to 4.39%. As a result, the inversion in key parts of the yield curve remains, with the 10Y/3m UST yield spread at -66 bps and 10Y/2Y at -80 bps. In Germany, the 10-year yield rose by 7 bps wow to 1.93%, while periphery government bond yields followed a similar path (Italy: +6 bps to 3.82%, Spain: +9 bps to 2.95%). Corporate bond spreads were mixed in the past week. Specifically, US high yield spreads were down by 4 bps to 446 bps, while their euro counterparts increased by 9 bps to 509 bps. In the Investment Grade spectrum, both USD and EUR spreads declined by 3 bps to 137 bps and 170 bps respectively.

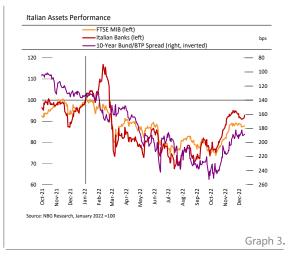
FX and Commodities

• In foreign exchange markets, the euro appreciation continues. Specifically, the EUR rose by +0.6% against the US Dollar to \$1.05 (+9.8% from September lows). Meanwhile, the Japanese yen fell in the past week by -0.8% to ¥136.6. Note however that it has increased by c. 7% since the beginning of November as 10-Year nominal yield differentials (US-JP) have narrowed by 43 bps.

In commodities, oil prices fell in the past week mainly due to demand pessimism, albeit they rose on Monday (+3%), in view of concerns regarding the timing of the return in operation of a major oil pipeline connecting Canada with the US (currently shut due to a leak). Meanwhile, US oil inventories continue to decline for a 4th consecutive week (-5.2 million barrels to 414 million barrels for the week ending December 2nd). Overall, Brent prices declined by -11.1% to \$76.1/barrel (-2% ytd), while WTI fell by -11.2% to \$71/barrel (-6% ytd). European Gas prices where highly volatile in the past week as Europe has entered severe cold conditions and high inventories are expected to decline due to increased consumption of natural gas for heating. Overall, on a weekly basis the price of the Dutch TTF increased by +2.6% to €139.6/MWh.







Quote of the week: "I believe by the end of next year you will see much lower inflation, if there's not an unanticipated shock... there's a risk of a recession. But it certainly isn't, in my view, something that is necessary to bring inflation down.", United States Secretary of the Treasury, J. Yellen, December 11th 2022.



0-Yr Gov. Bond Yield (%)	December 9th	3-month	6-month	12-month	Official Rate (%)	December 9th	3-month	6-month	12-month
Germany	1,93	2,15	2,25	2,25	Euro area	1,50	2,50	2,50	2,50
US	3,56	4,00	4,10	4,10	US	4,00	5,00	5,00	5,00
UK	3,17	3,69	3,64	3,49	UK	3,00	4,25	4,40	4,35
Japan	0,25	0,28	0,25	0,25	Japan	-0,10	-0,10	-0,10	-0,10
Currency	December 9th	3-month	6-month	12-month		December 9th	3-month	6-month	12-month
EUR/USD	1,05	1,02	1,05	1,10	USD/JPY	137	151	147	141
EUR/GBP	0,86	0,88	0,89	0,90	GBP/USD	1,23	1,16	1,18	1,22
EUR/JPY	143	154	155	155					
orecasts at end of period									

United States	2020a	O1:21a	Q2:21a	Q3:21a	O4:21a	2021a	Q1:22a	Q2:22a	Q3:22a	O4:22f	2022f
Real GDP Growth (YoY) (1)	-2.8	1.2	12,5	5,0	5,7	5,9	3.7	1,8	1,9	0,3	1,7
Real GDP Growth (QoQ saar) (2)	-2,0	6,3	7,0	2.7	7,0	<i>3,9</i> -	-1,6	-0.6	2,9	2,6	1,7
Private Consumption	-3,0	10.8	7,0 12,1	3.0	7,0 3,1	8,3	1,3	2,0	1.7	2,0	2,3
Government Consumption	2,6	6,5	-3,0	-0.2	-1,0	0,5	-2,3	-1.6	3.0	0,9	-0,9
Investment	-2,3	9,5	-5,0 5,8	-0,2 -1,1	-1,0 0,6	7,4	-2,5 4,8	-1,6 -5,0	-4,1	3,1	2,6
Residential	-2,3 7.2	9, <i>1</i> 11.6	•	-1,1 -5.8	•	,	•	-5,0 -17.8	- 4 , 1 -26.8		
Non-residential	,	, -	-4,9	- , -	-1,1	10,7	-3,1	, -	-,-	1,1	-3,4
	-4,9	8,9	9,9	0,6	1,1	6,4	7,9	0,1	5,1	3,5	4,5
Inventories Contribution	-0,7	-3,0	-1,3	2,0	5,1	0,2	0,3	-2,1	-1,2	-0,3	0,6
Net Exports Contribution	-0,2	-1,3	-0,8	-1,3	-0,6	-1,7	-3,8	1,2	3,4	0,6	-1,1
Exports	-13,2	0,4	4,9	-1,1	23,5	6,1	-4,6	13,8	15,3	2,4	5,0
Imports	-9,0	7,6	7,9	6,6	18,6	14,1	18,4	2,2	-7,3	-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	20221
Real GDP Growth (YoY)	-6,3	-0,8	14,2	3,9	4,8	5,3	5,5	4,2	2,3	0,8	3,0
Real GDP Growth (QoQ saar)	-	-0,2	8,2	9,3	2,2	-	2,5	3,2	1,3	-2,3	-
Private Consumption	-7,8	-7,2	14,3	19,1	-0,5	3,7	-0,1	4,2	3,5	-0,6	3,9
Government Consumption	1,0	-1,3	8,9	1,8	1,4	4,3	0,2	-0,4	0,6	1,0	1,9
Investment	-6,5	-9,0	7,4	-3,2	14,3	3,7	-2,9	3,8	15,4	-1,1	2,8
Inventories Contribution	-0,3	2,4	-2,1	0,1	2,7	0,2	-1,2	0,9	0,7	-0,2	0,2
Net Exports Contribution	-0,5	3,6	-0,3	-0,1	-3,4	1,3	4,4	-0,5	-4,4	-1,8	-0,3
Exports	-9,2	4,4	10,4	7,7	10,9	10,4	5,9	7,0	7,2	-3,5	6,2
Imports	-8,7	-3,1	12,4	8,6	20,3	8,2	-2,9	8,9	18,2	0,0	7,3
						,	, -	, -	. ,	, -	

	US	Euro Area	Japan	UK
charty manners	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 PIES (Valuations) still remain above I-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 dece	+ 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 sup 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 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

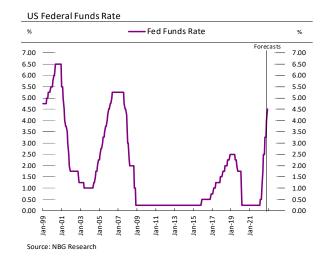


Economic Calendar

The Federal Reserve meets on December 14^{th} and is expected to increase its Federal Funds Rate (FFR) by 50 basis points to 4.5%. November retail sales report will also be closely monitored. The monthly figure is expected to decelerate to -0.2% mom from 1.3% mom in October.

For the ECB the interest rate hike size is a close call (+50 bps vs +75 bps) after steps of +75 bps in the previous two meetings (current Deposit Facility Rate: +1.5%).

In the UK, attention turns to inflation data for November, due to be released on Wednesday. CPI is expected at 10.9% yoy from 11.1% yoy in October, while the core figure is expected to remain stable at 6.5% yoy. On Thursday, the BoE meets and is expected to increase its Bank Rate by 50 basis points to 3.5%.



Economic News Calendar for the period: November 06 - December 19, 2022

Tuesday 06					Wednesday 07					Thursday 08				
US Trade balance (\$bn)	Marrandon	S	A 70.2	P 74.1	EURO AREA	Q3:22	S 0.2%	A	P	US	December 03	S 230	A 230	P
rrade balance (\$bn) UK	November	-80.0 +	-78.2	-74.1	GDP (QoQ) GDP (YoY)	Q3:22 Q3:22		+ 0.3% + 2.3%	0.2% 2.1%	Initial Jobless Claims (k) Continuing Claims (k)	November 26	1600	- 1671	226 1609
S&P Global/CIPS UK Construction		50.0	50.4	50.0	Gross Fixed Capital Formation		2.170			JAPAN	recording to	1000	1071	1003
PMI	November	52.0 -	50.4	53.2	(QoQ)	Q3:22		3.6%	0.9%	GDP (QoQ)	Q3:22	-0.3%	+ -0.2%	-0.3%
					Household Consumption (QoQ)	Q3:22		0.9%	1.0%	GDP Private Consumption (QoQ)	Q3:22		0.1%	0.3%
					Government expenditure (QoQ) JAPAN	Q3:22		0.1%	-0.1%	Eco Watchers Current Survey	November		- 48.1 - 45.1	49.9
					Coincident Index	October	101.1	- 99.9	100.8	Eco Watchers Outlook Survey	November	47.9	- 45.1	46.4
					Leading Index	October		+ 99.0	98.2					
					GERMANY	October	30.0	. 33.0	30.2					
					Industrial Production (sa, MoM)	October	-0.6%		1.1%					
					Industrial Production (wda, YoY)	October	2.3%	- 0.0%	3.1%					
					CHINA	November	-3.5%	8.7%	-0.3%					
					Exports (YoY) Imports (YoY)	November		8.7% 10.6%	-0.3%					
					imports (101)	November	0.070	- 10.070	0.7 70					
Friday 09 US		S	Α	P	Monday 12 UK		S	Α	P					
University of Michigan consumer				-	GDP (MoM)	October	0.4%	+ 0.5%	-0.6%					
confidence	December	56.9 +	59.1	56.8	Industrial Production (MoM)	October	0.0%	0.0%	0.2%					
Wholesale trade	October		0.4%	0.1%	Industrial Production (YoY)	October	-2.8%	+ -2.4%	-3.1%					
CHINA					CHINA									
CPI (YoY)	November	1.6%	1.6%	2.1%	Aggregate Financing (RMB bn)	November	2100	1990	908					
					Money Supply M2 (YoY) New Yuan Loans (RMB bn)	November November	11.7% 1350	12.4% 1210	11.8% 615					
					ivew rudii LOdiis (KIVID DII)	November	1330	1210	013					
Tuesday 13					Wednesday 14					Thursday 15				
US		S	A	P	Wednesday 14 US		S	A	P	Thursday 15		S	A	P
US CPI (YoY)	November	S 7.3%	A	P 7.7%		December 14	_	A			December	S -1.0	A	P 4.5
US CPI (YoY) Core CPI (YoY)	November November		A	•	Fed announces its intervention rate	December 14	S 4.5%	A	P 4.0%	Empire Manufacturing Initial Jobless Claims (k)	December 10		A	4.5 230
US CPI (YoY) Core CPI (YoY) UK	November	7.3% 6.1%		7.7% 6.3%	Fed announces its intervention rate UK		4.5%	A	4.0%	Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k)		-1.0		4.5
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate		7.3%		7.7%	Fed announces its intervention rate UK CPI (YoY)	November	4.5%	A	4.0%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business	December 10	-1.0 230 		4.5 230 1671
CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY	November October	7.3% 6.1% 3.7%	-	7.7% 6.3% 3.6%	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY)		4.5%		4.0%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook	December 10 December 03 December	-1.0 230 		4.5 230 1671 -19.4
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA	November November	4.5% 10.9% 6.5%		4.0% 11.1% 6.5%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM)	December 10 December 03 December November	-1.0 230 -12.0 -0.2%		4.5 230 1671 -19.4 1.3%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October	7.3% 6.1% 3.7%	-	7.7% 6.3% 3.6%	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM)	November November October	4.5% 10.9% 6.5% -1.5%		4.0% 11.1% 6.5% 0.9%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM)	December 03 December November November	-1.0 230 -12.0 -0.2% 0.2%		4.5 230 1671 -19.4 1.3% 1.3%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA	November November	4.5% 10.9% 6.5%		4.0% 11.1% 6.5%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM)	December 10 December 03 December November	-1.0 230 -12.0 -0.2%		4.5 230 1671 -19.4 1.3%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY)	November November October	4.5% 10.9% 6.5% -1.5%		4.0% 11.1% 6.5% 0.9%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Industrial Production (MoM)	December 10 December 03 December November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1%		4.5 230 1671 -19.4 1.3% 1.3% -0.1%
Tuesday 13 US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY)	November November October October	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) W BoE announces its intervention rate	December 03 December November November	-1.0 230 -12.0 -0.2% 0.2%		4.5 230 1671 -19.4 1.3% 1.3%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM)	November November October October October	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BOE announces its intervention rate EURO AREA	December 10 December 03 December November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1%		4.5 230 1671 -19.4 1.3% 1.3% -0.1%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	IUS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index	November November October October	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BOE announces its intervention rate EURO AREA ELB announces its intervention	December 10 December 03 December November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1%		4.5 230 1671 -19.4 1.3% -0.1%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	IUS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (xsa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers	November November October October October	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7%	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate	December 10 December 03 December November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1%		4.5 230 1671 -19.4 1.3% 1.3% -0.1%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	IUS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index	November November October October October October Q4:22	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate ECB announces its intervention rate	December 10 December 03 December November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1%		4.5 230 1671 -19.4 1.3% -0.1%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	IUS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (xsa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers	November November October October October October Q4:22	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate EURO Anexa ECB announces its intervention rate	December 10 December 03 December November November November December	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5%		4.5 230 1671 -19.4 1.3% -0.1% 3.0%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wa, YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers	November November October October October October Q4:22	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate ECB announces its intervention rate	December 10 December 03 December November November November December December	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5%		4.5 230 1671 -19.4 1.3% -0.1% 3.0%
US C(PI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations	November October December	7.3% 6.1% 3.7% -57.0 -26.4		7.7% 6.3% 3.6% -64.5 -36.7	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19	November November October October October October Q4:22	4.5% 10.9% 6.5% -1.5% 3.6% - 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate ECB announces its intervention rate ECB announces its deposit facility rate JAPAN Imports YOY Exports YOY	December 10 December 03 December November November November December	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0%
US C(PI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations	November October December	7.3% 6.1% 3.7% -57.0	-	7.7% 6.3% 3.6% -64.5	IUS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda, YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY	November November October October October Q4:22 Q4:22	4.5% 10.9% 6.5% -1.5% 3.6%		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate EURO AREA ICB announces its intervention rate EURO MEA ICB announces its intervention rate EURO MEA ECB announces its intervention rate EURO MEA ECB announces its intervention rate EURO MEA ECB announces its deposit facility rate FURO MEA ECB announces its deposit facility rate CB announces its d	December 10 December 03 December November November December December December November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3%
US C(P) (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations	November October December	7.3% 6.1% 3.7% -57.0 -26.4		7.7% 6.3% 3.6% -64.5 -36.7	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator	November November October October October October Q4:22 Q4:22	4.5% 10.9% 6.5% -1.5% 3.6% - 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI	November October December December	7.3% 6.1% 3.7% -57.0 -26.4	 	7.7% 6.3% 3.6% -64.5 -36.7	IS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO- Current Assesment	November November October October October October Q4:22 Q4:22	4.5% 10.9% 6.5% -1.5% 3.6% - 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales (MoM) Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate EURO AREA ICB announces its intervention rate EURO MEA ICB announces its intervention rate EURO MEA ECB announces its intervention rate EURO MEA ECB announces its intervention rate EURO MEA ECB announces its deposit facility rate FURO MEA ECB announces its deposit facility rate CB announces its d	December 10 December 03 December November November December December December November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI UK	October December December	7.3% 6.1% 3.7% -57.0 -26.4		7.7% 6.3% 3.6% -64.5 -36.7	IS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (Ma,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO- Current Assesment IFO- Expectations	November November October October October October Q4:22 Q4:22	4.5% 10.9% 6.5% -1.5% 3.6% - 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI UK Retail Sales Ex Auto MoM	October December December December November	7.3% 6.1% 3.7% -57.0 -26.4 S 47.7 0.2%	 	7.7% 6.3% 3.6% -64.5 -36.7	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO- Current Assesment IFO- Expectations US	November November October October October Q4:22 Q4:22 December December December	4.5% 10.9% 6.5% -1.5% 3.6% 6 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US CPI (YOY) Core CPI (YOY) UK ILGO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US SaP Global US Manufacturing PMI UK Retail sales Ex Auto MoM S&P Global UK PMI Manufacturing SA	October December December	7.3% 6.1% 3.7% -57.0 -26.4		7.7% 6.3% 3.6% -64.5 -36.7	IS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO-Current Assesment IFO-Expectations US NAHB housing market confidence	November November October October October October Q4:22 Q4:22	4.5% 10.9% 6.5% -1.5% 3.6% - 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US C(P) (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI UK Retail sales Ex Auto MoM S&P Global UK PMI Manufacturing SA	October December December December November	7.3% 6.1% 3.7% -57.0 -26.4 S 47.7 0.2%		7.7% 6.3% 3.6% -64.5 -36.7	US Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO- Current Assesment IFO- Expectations US	November November October October October Q4:22 Q4:22 December December December	4.5% 10.9% 6.5% -1.5% 3.6% 6 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI UK Retail sales Ex Auto MoM S&P Global UK PMI Manufacturing S&P Global UK PMI Manufacturing S&P Global UK Services PMI EURO AREA	October December December December December	7.3% 6.1% 3.7% -57.0 -26.4 S 47.7 0.2% 46.2		7.7% 6.3% 3.6% -64.5 -36.7 P 47.7 0.3% 46.5	IS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO-Current Assesment IFO-Expectations US NAHB housing market confidence	November November October October October Q4:22 Q4:22 December December December	4.5% 10.9% 6.5% -1.5% 3.6% 6 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
US CPI (YoY) Core CPI (YoY) UK ILO Unemployment Rate GERMANY ZEW survey current situation ZEW survey expectations Friday 16 US S&P Global US Manufacturing PMI UK Retail Sales Ex Auto MoM S&P Global UK PMI Manufacturing S&P Global UK Services PMI EURO AREA S&P Global UK Services PMI EURO AREA S&P Global Eurozone	October December December December December December December	7.3% 6.1% 3.7% -57.0 -26.4 S 47.7 0.2% 46.2 48.5		7.7% 6.3% 3.6% -64.5 -36.7 P 47.7 0.3% 46.5 48.8	IS Fed announces its intervention rate UK CPI (YoY) CPI Core (YoY) EURO AREA Industrial Production (sa, MoM) Industrial Production (wda,YoY) JAPAN Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Tankan - large manufacturers current index Tankan - large manufacturers outlook index Monday 19 GERMANY IFO- Business Climate Indicator IFO-Current Assesment IFO-Expectations US NAHB housing market confidence	November November October October October Q4:22 Q4:22 December December December	4.5% 10.9% 6.5% -1.5% 3.6% 6 6		4.0% 11.1% 6.5% 0.9% 4.9% -2.6% 3.7% 8 9	US Empire Manufacturing Initial Jobless Claims (k) Continuing Claims (k) Continuing Claims (k) Philadelphia Fed Business Outlook Retail sales ex-autos (MoM) Industrial Production (MoM) UK BoE announces its intervention rate EURO AREA ECB announces its intervention rate CCB announces its openit facility rate JAPAN Imports YOY Exports YOY CHINA	December 10 December 03 December November November November December December December November November November November	-1.0 230 -12.0 -0.2% 0.2% 0.1% 3.5% 2.0% 2.5% 27.0% 19.8% 3.6%		4.5 230 1671 -19.4 1.3% -0.1% 3.0% 1.5% 2.0% 53.5% 25.3% 5.0%
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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	3934	-3.4	-17.5	-15.7	7.1	MSCI Emerging Markets	58968	0.6	-15.8	-17.0	-15.6	
Japan	NIKKEI 225	27901	0.4	-3.1	-2.9	4.0	MSCI Asia	904	1.6	-15.5	-17.1	-17.5	
UK	FTSE 100	7477	-1.1	1.2	2.1	13.9	China	66	6.6	-20.6	-24.2	-37.0	
Canada	S&P/TSX	19947	-2.6	-6.0	-4.7	13.6	Korea	720	-1.4	-21.0	-22.3	-18.4	
Hong Kong	Hang Seng	19901	6.6	-14.9	-18.0	-24.9	MSCI Latin America	88894	-3.2	-3.7	-3.7	-6.8	
Euro area	EuroStoxx	424	-1.0	-11.5	-9.8	7.7	Brazil	291382	-4.0	-4.9	-6.6	-17.8	
Germany	DAX 40	14371	-1.1	-9.5	-8.1	7.7	Mexico	46954	-1.7	-5.9	-2.0	19.4	
France	CAC 40	6678	-1.0	-6.6	-4.7	20.4	MSCI Europe	2682	-0.4	-61.3	-61.5	-54.2	
Italy	FTSE/MIB	24277	-1.4	-11.2	-9.5	10.5	Russia	2178	-0.1	-42.5	-42.9	-32.2	
Spain	IBEX-35	8289	-1.1	-4.9	-1.3	0.7	Turkey	4876794	0.3	134.7	115.5	212.9	

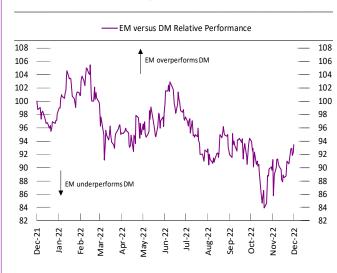
in US Dollar terms	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	in local currency	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)
-						-					
Energy	235.4	-7.0	34.9	34.4	74.7	Energy	247.8	-6.9	39.9	38.6	82.3
Materials	321.1	-1.4	-10.8	-7.8	2.8	Materials	319.9	-1.5	-6.2	-3.6	10.2
Industrials	303.9	-1.9	-13.3	-12.2	0.6	Industrials	315.7	-1.9	-9.0	-8.0	8.4
Consumer Discretionary	308.7	-3.3	-30.1	-30.0	-14.7	Consumer Discretionary	307.9	-3.3	-27.9	-27.9	-10.3
Consumer Staples	273.6	-1.5	-6.7	-2.4	4.7	Consumer Staples	281.4	-1.6	-3.4	0.6	10.1
Healthcare	349.7	-0.9	-5.4	-1.2	13.3	Healthcare	351.4	-1.0	-3.3	0.8	17.5
Financials	131.0	-2.4	-12.3	-11.3	11.9	Financials	135.2	-2.4	-9.1	-8.3	17.5
IT	414.5	-3.2	-27.6	-26.7	-1.9	IT	406.5	-3.2	-26.8	-25.8	0.1
Telecoms	68.5	-4.6	-35.8	-35.6	-26.1	Telecoms	73.0	-4.5	-34.6	-34.4	-23.8
Utilities	153.3	0.0	-6.6	-2.6	2.1	Utilities	160.8	-0.1	-4.0	-0.2	6.7

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	3.56	3.51	1.51	1.48	2.14	US Treasuries 10Y/2Y	-83	-82	78	77	98
Germany	1.93	1.86	-0.18	-0.36	0.45	US Treasuries 10Y/5Y	-19	-16	25	23	49
Japan	0.25	0.25	0.07	0.05	0.19	Bunds 10Y/2Y	-22	-21	46	35	80
UK	3.17	3.15	0.97	0.74	1.47	Bunds 10Y/5Y	-1	0	28	24	54
Greece	3.98	3.87	1.32	1.36	5.43						
Ireland	2.36	2.30	0.25	0.06	1.32	Corporate Bond Spreads (in	C	Lastal.	V C++	One Year	10-year
Italy	3.82	3.75	1.17	0.98	2.20	bps)	Current	Last week	Year Start	Back	average
Spain	2.95	2.87	0.57	0.37	1.72	EM Inv. Grade (IG)	173	185	139	142	190
Portugal	2.84	2.78	0.46	0.32	2.44	EM High yield	655	672	618	683	624
						US IG	137	140	98	99	133
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	446	450	310	325	448
30-Year FRM ¹ (%)	6.41	6.49	3.31	3.30	4.14	Euro area IG	170	173	98	99	119
vs 30Yr Treasury (bps)	278.8	285.5	138.9	139.9	138.9	Euro area High Yield	509	500	331	343	405

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	1.05	0.6	5.1	-6.6	-7.3	Agricultural	449	-0.6	-3.8	1.5	8.0
EUR/CHF	0.98	-0.2	-0.4	-5.8	-5.1	Energy	262	-10.2	-16.1	8.7	3.9
EUR/GBP	0.86	0.0	-2.7	0.3	2.1	West Texas Oil (\$/bbl)	71	-11.2	-17.3	0.1	-5.6
EUR/JPY	143.98	1.5	-1.9	12.5	9.9	Crude brent Oil (\$/bbl)	76	-11.1	-17.9	2.3	-2.2
EUR/NOK	10.52	2.1	1.3	3.2	4.9	HH Natural Gas (\$/mmbtu)	6.2	26.9	80.5	70.2	63.5
EUR/SEK	10.89	0.0	0.1	6.2	5.8	TTF Natural Gas (EUR/mwh)	139	2.6	23.0	38.5	97.8
EUR/AUD	1.55	0.3	-0.4	-1.8	-0.8	Industrial Metals	462	0.2	7.9	-3.3	-7.4
EUR/CAD	1.44	1.8	6.3	0.2	0.0	Precious Metals	2375	0.3	5.7	2.5	-0.7
USD-based cross rates						Gold (\$)	1797	-0.1	5.3	1.2	-1.4
USD/CAD	1.36	1.2	1.1	7.3	7.9	Silver (\$)	23	1.5	11.1	6.9	1.3
USD/AUD	1.47	-0.3	-5.2	5.1	7.0	Baltic Dry Index	1386	4.7	-0.5	-58.5	-37.5
USD/JPY	136.60	0.8	-6.6	20.4	18.6	Baltic Dirty Tanker Index	2110	-5.0	12.6	171.6	168.4







Data as of December 9th – Rebased @ 100

Equity Market Performance - G4



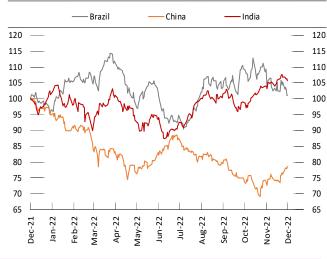
Data as of December 9th – Rebased @ 100

Equity Market Performance - Euro Area G4



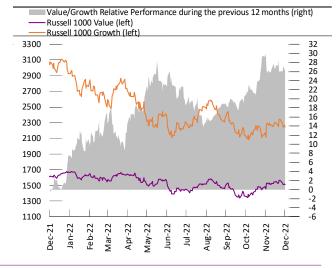
Data as of December 9th – Rebased @ 100

Equity Market Performance – Emerging Markets



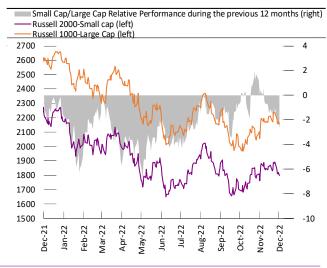
Data as of December 9th – Rebased @ 100

Russell 1000 Value & Growth Index



Data as of December 9th

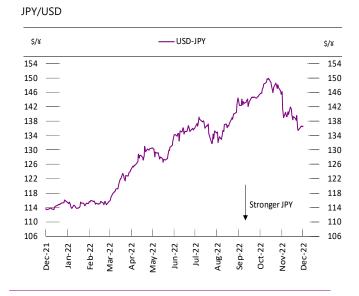
Russell 2000 & Russell 1000 Index



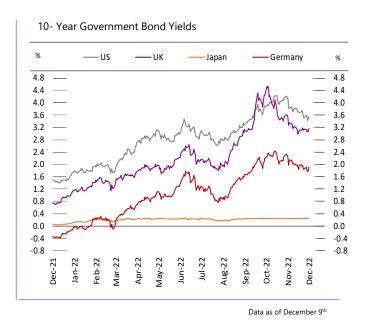
Data as of December 9th

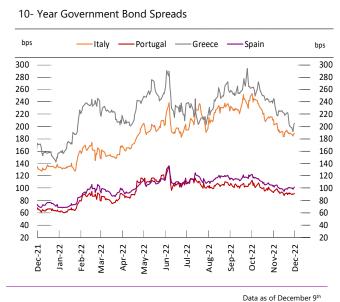


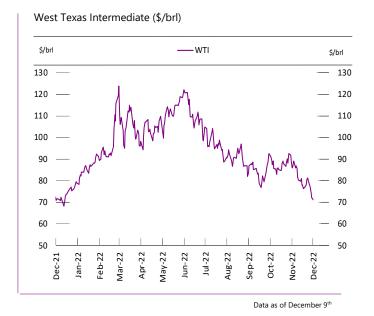


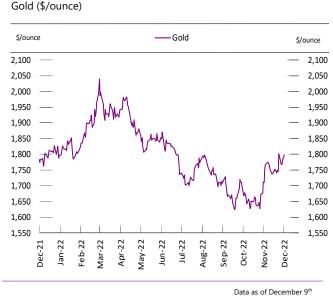


Data as of December 9th











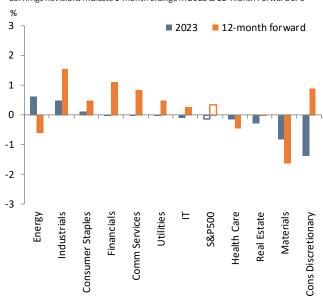
US Sectors Valuation

		Price (\$)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/BV R	atio	
	9/12/22	% Weekly Change	%YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
S&P500	3934	-3.4	-17.5	5.9	5.6	1.7	1.8	18.0	17.1	17.1	17.4	3.9	3.6	3.6	3.1
Energy	629	-8.4	48.9	158.2	-12.9	3.4	3.4	7.9	9.0	9.0	19.5	2.3	2.1	2.1	1.8
Materials	508	-3.3	-10.9	5.1	-9.3	2.0	2.1	15.0	16.5	16.4	16.2	2.9	2.7	2.7	2.7
Financials															
Diversified Financials	972	-3.1	-11.2	-13.4	8.2	1.6	1.8	16.2	15.0	15.1	15.0	2.0	1.8	1.9	1.7
Banks	325	-5.9	-22.2	-17.0	15.2	3.2	3.4	10.1	8.8	8.8	11.5	1.1	1.0	1.0	1.1
Insurance	595	-2.5	8.1	-13.3	29.0	1.8	2.0	17.1	13.3	13.5	11.9	2.2	2.0	2.0	1.3
Real Estate	240	-1.9	-26.2	10.7	2.8	3.7	3.6	17.3	16.8	16.8	18.7	2.7	2.9	2.9	3.3
Industrials															
Capital Goods	869	-3.1	-2.4	13.0	18.2	1.7	1.8	22.0	18.6	18.8	17.4	5.0	4.6	4.6	4.0
Transportation	928	-3.8	-17.7	125.7	8.6	2.0	2.1	15.6	14.4	N/A	14.0	5.3	4.5	4.5	4.2
Commercial Services	503	-2.8	-7.4	9.9	6.2	1.1	1.1	29.4	27.7	27.8	23.8	6.3	5.8	5.8	4.3
Consumer Discretionary															
Retailing	2838	-4.4	-32.8	-39.9	48.7	0.9	0.9	37.9	25.5	26.3	27.8	10.1	8.4	8.5	9.4
Consumer Services	1325	-2.6	-12.3	N/A	159.7	1.2	1.3	62.9	24.2	N/A	36.0	172.1	115.2	N/A	13.3
Consumer Durables	355	-2.5	-33.3	2.0	-15.9	1.8	1.9	12.3	14.6	14.5	17.0	3.0	2.7	2.7	3.4
Automobiles and parts	106	-7.5	-46.8	29.8	10.6	0.3	0.4	21.4	19.3	N/A	16.2	4.2	3.6	3.6	2.9
IT															
Technology	2719	-3.6	-20.3	5.9	3.4	0.9	1.0	20.9	20.2	20.3	15.9	15.5	13.7	13.8	7.2
Software & Services	2900	-4.0	-25.5	10.2	10.8	1.0	1.1	24.9	22.5	22.6	21.9	7.8	6.6	6.7	6.4
Semiconductors	1794	-1.4	-31.8	-3.8	-5.7	1.6	1.7	17.8	18.9	18.8	15.6	4.7	4.4	4.5	3.9
Communication Services	164	-5.4	-38.6	-16.7	10.7	1.0	1.1	16.3	14.7	14.8	19.0	2.6	2.4	2.4	3.2
Media	629	-5.9	-42.0	-17.5	11.0	0.3	0.4	18.4	16.6	16.7	22.4	3.1	2.8	2.8	3.7
Consumer Staples															
Food & Staples Retailing	649	-3.6	-7.5	1.4	6.2	1.5	1.6	22.8	21.4	21.5	18.7	5.2	4.7	4.8	3.7
Food Beverage & Tobacco	869	-1.8	6.5	4.7	2.7	3.0	3.1	20.2	19.6	19.7	18.6	5.6	5.3	5.3	5.1
Household Goods	859	-0.1	-12.0	-3.4	4.7	2.3	2.4	27.0	25.8	25.9	21.7	10.3	10.0	10.0	7.0
Health Care															
Pharmaceuticals	1312	-1.7	1.0	4.2	-8.0	1.8	1.9	15.6	17.0	16.9	15.5	5.7	5.1	5.2	4.4
Healthcare Equipment	1869	-0.7	-6.7	3.2	5.1	1.1	1.2	20.0	19.0	19.1	17.1	4.1	3.7		3.1
Utilities	358	-0.3	-1.6	2.0	7.1	2.9	3.1	20.0	18.7	18.8	17.2	2.2	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.

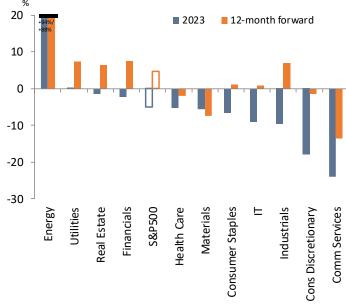
1-month revisions to 2023 & 12-month Forward EPS

 ${\sf Earnings\,Revisions\,indicate\,1-month\,change\,in\,2023\,\&\,12-month\,Forward\,EPS}$



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

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





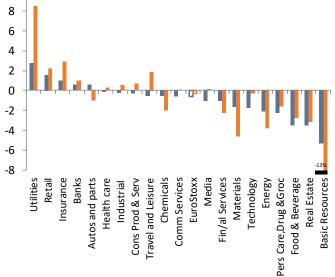
Euro Area Sectors Valuation

		Price (€)		EPS Gro	wth (%)	Dividend	Yield (%)		P/I	E Ratio			P/E	BV Ratio	
	9/12/22	% Weekly Chang	e %YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
EuroStoxx	424	-1.0	-11.5	16.7	2.8	3.2	3.4	12.9	12.6	12.6	14.8	1.6	1.5	1.5	1.5
Energy	340	-3.1	17.8	132.3	-17.6	5.4	4.7	5.1	6.2	6.1	12.9	1.2	1.1	1.1	1.2
Materials	959	-1.2	-8.1	9.4	-26.8	3.1	3.0	11.0	15.0	14.8	15.8	1.7	1.6	1.6	1.7
Basic Resources	239	2.8	-3.8	-6.2	-51.6	2.9	3.0	4.7	9.6	9.3	9.8	0.7	0.7	0.7	0.8
Chemicals	1388	-1.7	-8.6	19.7	-15.1	3.1	3.0	14.0	16.5	16.3	16.8	2.1	2.1	2.1	2.2
Financials															
Banks	93	-0.5	-7.1	14.0	3.3	6.6	7.0	7.0	6.8		10.2	0.6	0.6	0.6	0.7
Insurance	315	1.1	2.9	-4.6	22.7	5.3	5.7	11.0	8.9	9.0	9.7	1.3	1.2	1.2	0.9
Financial Services	511	-2.6	-11.8	25.1	-0.2	3.0	3.1	12.2	12.2		16.1	1.2	1.2	1.2	1.3
Real Estate	137	0.0	-38.5	5.7	-0.2	6.2	6.6	10.7	10.7		16.9	0.6	0.6	0.6	1.0
Industrials															
Industrial Goods & Services	997	-1.1	-14.8	20.7	11.0	2.3	2.6	17.8	16.1	16.2	17.5	2.5	2.3	2.4	2.7
Construction & Materials	479	-0.4	-11.8	-4.0	-0.2	3.7	3.9	12.0	12.0		14.8	1.6	1.5	1.5	1.5
Consumer Discretionary															
Retail	500	-2.6	-27.8	-1.0	6.1	4.3	4.6	20.2	19.1		26.0	4.0	3.8	3.9	5.6
Automobiles and parts	527	-1.7	-16.4	19.9	-16.5	6.2	5.6	4.7	5.7	5.6	8.0	0.8	0.7	0.7	1.0
Travel and Leisure	197	0.8	1.8	N/A	39.4	1.0	1.2	25.3	18.2	N/A	N/A	2.2	2.1	2.1	2.2
Consumer Products & Services	447	-0.9	-15.2	6.9	14.2	1.6	1.7	29.3	25.6	25.8	24.9	6.1	5.4	5.5	4.2
Media	271	-0.8	-5.2	19.5	15.4	2.3	2.5	21.3	18.5	18.7	18.6	2.9	2.8	2.8	2.2
Technology	783	-0.9	-20.3	-2.2	21.8	1.1	1.2	26.4	21.6	21.9	22.0	3.6	3.3	3.3	3.7
Consumer Staples															
Food, Beverage & Tobacco	168	-2.0	-12.2	12.0	8.6	1.8	2.1	19.5	18.0	18.1	20.1	2.1	2.0	2.0	2.6
Personal Care, Drug & Grocery	175	-0.3	-13.0	2.4	6.0	2.5	2.7	16.1	15.2		17.6	2.3	2.2	2.2	2.3
Health care	794	-1.1	-14.9	8.5	4.7	2.4	2.5	15.6	14.9		16.7	2.0	1.9	1.9	2.3
Communication Services	272	-2.3	-5.9	22.1	6.1	4.2	4.5	14.6	13.7	13.8	15.4	1.4	1.4	1.4	1.7
Utilities	359	0.1	-8.8	-42.5	85.3	4.5	4.6	23.5	12.7	13.3	14.2	1.7	1.6		1.3

Blue box indicates a value more than +2standard devation from average, light blue a value more than +1standard devation from average, light variety and less than -2standard devation from average 1standard devation from average

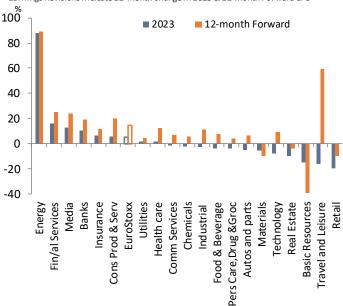
1-month revisions to 2023 & 12-month Forward EPS Earnings Revisions indicate 1-month change in 2023 & 12-month Forward EPS

10 ■ 2023 ■ 12-month Forward 8 6 4



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

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



Data as of December 9th

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



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