## **Global Markets Roundup**



National Bank of Greece | Economic Research Division | May 17, 2022

The positive correlation between equities and bonds broke down, as the S&P500 decreased for the sixth week in a row due to recession concerns

- The S&P500 decreased for the sixth week in a row -- the first time since 2011 -- as concerns that high inflation will force the Federal Reserve to induce a recession, prevailed. US large-cap equities have declined by -16% since January 2022 high of 4797, with valuations reverting rapidly to long-term means. US equities were mixed to start the week (Monday: -0.4%, Tuesday: +1%), managing to stay slightly above the 4000 level.
- Indeed, the 12-month forward Price to Earnings ratio has retreated by 4 points to 17.2x, remaining though still 1.4 points above the 20-year average of 15.8x. On the other hand, expectations for corporate profitability have been broadly stable at \$235 per share, whereas our earnings' revision indicator has moved sideways (see graph page 3).
- Q1 earnings results were better-than-feared. As the season for the S&P500 is drawing to a close, EPS growth stands at a decent +9% year-over-year (\$53 per share), from expected growth of +5% yoy in the beginning (April 11<sup>th</sup>). Energy companies account for the lion's share of growth due to skyrocketing oil prices. Excluding Energy, S&P500 EPS growth rate would be +3% yoy.
- Materials (+42% yoy) and Industrials (+34% yoy) posted strong growth as well, albeit the latter due to smaller losses from the 5 Airlines (-\$4B in Q1:2022 vs -\$9B in Q1:2021). Excluding airlines, Industrials' EPS growth would be +7% yoy. On the contrary, Consumer Discretionary (-33% yoy) due to negative reporting by Amazon and Financials (-20% yoy), lagged.
- Looking forward, out of the 76 companies that have issued EPS guidance for Q2:2022, 53 have issued negative and 23 have issued positive (ratio of 70%), broadly in line with the 10-year average ratio of 67%.
- For 2022 as a whole, analysts are projecting S&P500 EPS growth of +10% (+6% excluding Energy) and a further +10% in 2023 (+11% excluding Energy) to \$249 per share. Analysts have not revised earnings expectations significantly lower, despite a growing set of macroeconomic headwinds (inflation, supply chain disruptions, labor costs, geopolitics). On the other hand, equity prices reflect significant recession risks.
- Notably, based on earnings calls' transcripts, 377 of the companies that have reported so far have cited the term "inflation", the highest number since at least 2010. Supply disruptions related to the ongoing Covid-19 pandemic are expected to exacerbate near-term inflationary pressures. US Core CPI remains persistently high (+6.2% yoy, see Economics).
- Safe haven assets rallied due to growth concerns. Government bond yields decreased significantly in the past week, with the 10-Year US Treasury yield down by 20 bps to 2.93%. For the first time in six weeks, stock-bond correlation turned negative (see graph page 3).
- The geopolitical backdrop remains highly fluid. Sweden and Finland have declared their willingness to apply for NATO membership, with the formal applications expected within days. A unanimous approval by NATO members (30) is needed. Although Turkey has expressed reservations, NATO officials appear optimistic for a speedy inclusion of the two countries in the alliance.

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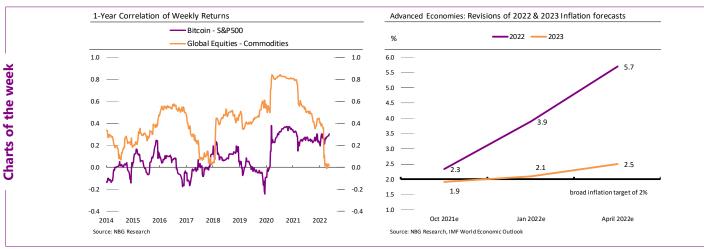
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#### **US** core inflation outcome was solid

- Headline CPI inflation decelerated in April, albeit exceeding consensus estimates. Specifically, the annual pace of growth came out at +8.3% from +8.5% in March (which had been the highest since December 1981), meaningfully above expectations for +8.1%. At the same time, the monthly growth was +0.3% (seasonally adjusted | "sa") from +1.2% mom previously (20-year average of +0.2% mom).
- The easing was mainly due a sole component, namely on account of gasoline prices partly easing by -6.1% mom (sa) after having spiked by +18.3% mom in the previous month. Overall, with increases occurring on a monthly basis in utility (piped) gas services (+3.1% mom) due to surging US natural gas prices during the month, with the Henry Hub contract rising by c. 36% mom on average) and electricity (+0.7%) prices, the overall energy index fell by a more modest -2.7% mom (sa) in April. As a result, the annual growth of the energy index decelerated to +30.3% from +32.0% in March.
- At the same time, a sharp momentum remained in place for food prices, up by +0.9% mom in April, largely matching the average monthly pace in the past four months and far above a 20-year average of +0.2% mom. As a result, the annual pace of growth accelerated by 0.6 pps to +9.4% yoy, the highest since April 1981.
- Core CPI (i.e. CPI excluding food & energy) demonstrated a robust and considerably stronger than expected impetus in April. In the event, the core CPI increased by 0.6% mom (sa) from 0.3% mom in March (20-year average of +0.2% mom), led by prices of new vehicles (+1.1%) and airline fares (+18.6%). More importantly, a strong momentum is maintained for the relatively less volatile and predominantly determined by domestic economic developments, shelter prices (+0.5% mom), which constitute c. 1/3 of the headline CPI and c. 40% of the core index, evident in both major components. In the event, the index for the rent of primary residence was up by a solid +0.6% mom (+4.8% yoy) in April and the owners' equivalent rent of residences (i.e. the implicit rent that owner occupants would have to pay if they were renting their homes), by 0.5% mom (also +4.8% yoy). Recall that the monthly growth of these items has averaged +0.5% & +0.4%, respectively, in the past 6 months, c. double their 20-year average.
- In all, core CPI's annual pace of growth was +6.2% from +6.5% in March (the highest since August 1982), significantly above consensus estimates for +6.0% and with the deceleration being due to base effects (core CPI had risen by 0.9% mom sa in April 2021). Looking forward, the Federal Reserve Bank of Cleveland's Inflation Nowcasting model points to a deceleration in May, to +8.1% yoy for the headline CPI and to +5.9% yoy for the core index (the latter again mostly due to base effects).

# US bank lending standards for corporations were little changed in Q1:22 after easing in the previous 4 quarters

• The Fed's Senior Loan Officer Opinion Survey (SLOOS) for Q1:22, suggests a roughly stable appetite from banks to extend new credit. Indeed, regarding corporations, a slight positive net percentage of respondents reported an easing of lending standards for commercial and industrial (C&I) loans (2% of banks for large and middle corporations | for small firms that percentage equaled the respective one reporting a tightening),

following a substantial easing in the previous four quarters (on average, net percentages of 20% & 15%, respectively). According to the respondents, the tightening effect from a somewhat more cautious outlook for industry-specific challenges, was largely offset by more-aggressive competition from other banks & non-bank lenders. Meanwhile, mixed changes in standards were reported across the categories of commercial real estate (CRE) loans, i.e.: i) non-farm non-residential (unchanged); ii) multifamily loans (net easing percentage of 9%) and; iii) construction and land development lending (net percentage of 5% tightened standards). Regarding households, credit standards eased for a 5th consecutive quarter across most of the categories of residential real estate loans and for a 6th consecutive quarter across all types of consumer loans (credit cards, auto loans and other consumer loans).

On the demand side, largely a strengthening from corporations was reported for a 2<sup>nd</sup> consecutive quarter, while credit appetite from households posted mixed changes across loan types (eased for mortgages | edged higher for consumer credit). Regarding C&I loans, a net share of 12% of banks reported stronger demand from large and middle corporations in Q1:22 (after 22% in Q4:21) and 18% from small firms (after a net share of 9% reported higher demand in the previous quarter). Inventory financing needs was the most widely cited factor supporting demand, a development indicative of corporations' efforts to safeguard themselves against (and navigate through) the current supply chain jitters. Regarding residential real estate loans, the survey results bode well with actual data. Indeed, mortgage applications have declined sharply recently (-42% for the week ending May 6th compared with a peak in late-January according to the Mortgage Bankers Association), as the respective interest rates are on the rise, in tandem with monetary policy tightening (according to data from Freddie Mac, the 30-year fixed mortgage rate stood at 5.27% for the week ending on May 5th, compared with a trough of +2.77% in early-August 2021 and 3.76% just 2 months ago).

## China: economic activity declined entering Q2, well below consensus estimates

Strict (localized) pandemic-related lockdowns took a heavier than expected toll on economic activity in April. In the event, the annual growth of retail sales (in nominal terms) decelerated to -11.1% from -3.5% in March, undershooting consensus estimates for -6.1%. In addition, industrial production growth came out at -2.9% yoy in April from +5.0% yoy in March (consensus: +0.4% yoy). The deterioration was led by output of automobiles (-31.8% yoy from -1.0%), of general manufacturing equipment (-15.8% from -0.7%) as well as of computers, communication & other electronics equipment (+4.9% from +12.5%), in view of lockdowns in respective major manufacturing hubs (*inter alia*, in the cities of Shanghai, Suzhou and Jilin) and consequent disruptions in the production process and supply chains. Finally, fixed assets investment growth came out at +6.8% yoy from +9.3% yoy, roughly in line with expectations.



#### **Equities**

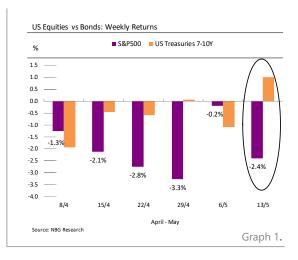
 Global equity markets were volatile in the past week. Specifically, the MSCI ACWI declined by -2.2%, with both Emerging (-2.6%) and Developed Markets (-2.2%) ending the week down. In the US, the S&P500 declined by 2.4% wow, recording its 6th consecutive week with losses, for the first time since 2011. Volatility remained elevated, with the index declining below 4000 points, posting its lowest level since March 2021 on Thursday (3930), before rebounding on Friday (+2.4%) from nearly oversold conditions, after Relative Strength Index (RSI) fell to 31 on Thursday, an index that is used to identify overbought (above 70) and oversold conditions (below 30). Furthermore, the 12-month forward price-to-earnings (P/E) ratio on Thursday reached 16.6x from 17.6x in the previous week, as the smaller-than-expected deceleration of inflation (+8.3% in April), geopolitics (Finland and Sweden have declared their willingness to apply for NATO membership) and economic growth concerns weighed on sentiment. Among sectors, Automobiles lagged (-9.8%), mainly due to Tesla (-11.1%), with the downtrend, however, reversing on Friday (+5.7%), following its CEO, E. Musk's comments that the \$44 bn deal for the acquisition of Twitter (-18.2% wow) is "temporarily on hold". On the other side of the Atlantic, Eurostoxx rose by 1.4% in the past week, with the bulk of the increase occurring on Friday (+2.3%). In China, the CSI300 ended the week up by 2%, nevertheless entered the current week on a negative note (-0.8% on Monday) following significantly weaker-than-expected economic data.

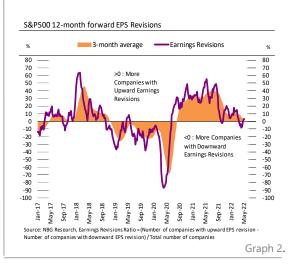
#### **Fixed Income**

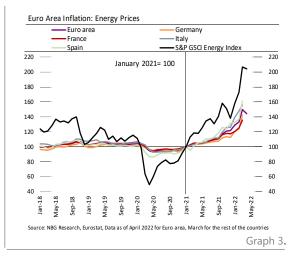
• Government bond yields declined in the past week. Specifically, in the US, the 10-year yield fell by 20 bps to 2.93%, although exhibiting increased volatility. Indeed, the yield reached 3.20% on Monday (intra-day), its highest level since November 2018, before declining for 4 consecutive sessions to 2.82%, due to elevated "safe haven" demand and concerns for slower growth. Notably, Fed Chair, J. Powell, commented that it will be "guite challenging" for the Fed to engineer a soft landing for the US economy. On Friday, the trend reversed again, with the yield rising by 11 bps. In the UK, the 10-year government bond yield declined by 21 bps wow to 1.75%, with the country's GDP unexpectedly declining by 0.1% in March, while also recording a weaker-than-expected increase in the first quarter (+0.8%). In Germany, the 10-Year yield decreased by 16 bps to 0.96%, with periphery government bond yields ending the week lower as well. Specifically, in Italy, the 10-year yield declined by 26 bps wow to 2.86%, while in Greece it decreased by 7 bps wow to 3.46%. Corporate bond spreads widened in the past week, especially in the High Yield spectrum, on account of subdued risk appetite. Specifically, US HY spreads rose by 45 bps to 463 bps, while reaching 477 bps on Thursday, their highest level since November 2020 and close to early-2019 highs, when the Fed stopped raising rates in the 2015-2018 cycle, with the Fed Funds Rate at 2.50%. Their euro area counterparts rose by 15 bps to 501 bps. In the Investment Grade spectrum, the USD spreads increased by 7 bps to 147 bps, while their EUR counterparts rose by 8 bps to 165 bps.

#### **FX and Commodities**

• In foreign exchange markets, the US Dollar and the Yen appreciated significantly in the past week, due to the investors' increased risk aversion. Overall, the Yen ended the week up by 2% wow in Nominal Effective Exchange Rate (NEER) terms and by 2.6% wow against the euro to ¥134.5, while the USD increased by 0.9% wow against a basket of trade-weighted currencies, with the DXY Index at a 20-year high and by 1.8% against the euro to \$1.04, a 5-year high. Finally, in commodities, oil prices were broadly stable in the past week, with the downward trend early in the week, following demand concerns regarding the restrictive measures in China and aggressive monetary tightening in the US to curb inflation that could affect economic growth, reversing later in the week. Overall, the Brent ended the week down by 0.7% wow to \$111.6/barrel, while the WTI rose by 0.7% to \$110.5/barrel.







Quote of the week: "A soft landing is really just getting back to 2% inflation while keeping the labor market strong. And it's quite challenging to accomplish that right now", Fed Chair, Jerome Powell, May 12<sup>th</sup> 2022.



0-Yr Gov. Bond Yield (%)	May 13th	3-month	6-month	12-month	Official Rate (%)	May 13th	3-month	6-month	12-month
Germany	0.96	1.00	1.10	1.30	Euro area	-0.50	-0.50	-0.25	0.25
US	2.93	3.00	3.10	3.20	US	1.00	1.50	2.00	3.00
UK	1.75	1.87	1.92	1.91	UK	1.00	1.25	1.50	1.75
Japan	0.24	0.22	0.23	0.26	Japan	-0.10	-0.10	-0.10	-0.10
Currency	May 13th	3-month	6-month	12-month		May 13th	3-month	6-month	12-month
EUR/USD	1.04	1.06	1.08	1.10	USD/JPY	129	125	124	123
EUR/GBP	0.85	0.85	0.86	0.87	GBP/USD	1.23	1.25	1.26	1.27
EUR/JPY	135	132	134	136					

Economic Forecasts											
<b>United States</b>	2020a	Q1:21a	Q2:21a	Q3:21a	Q4:21a	2021a	Q1:22a	Q2:22f	Q3:22f	Q4:22f	2022f
Real GDP Growth (YoY) (1)	-3.4	0.5	12.2	4.9	5.5	5.7	3.6	2.6	2.8	1.7	2.7
Real GDP Growth (QoQ saar) (2)	-	6.3	6.7	2.3	6.9	-	-1.4	2.9	3.0	2.4	-
Private Consumption	-3.8	11.4	12.0	2.0	2.5	7.9	2.7	3.2	3.5	2.7	3.3
Government Consumption	2.5	4.2	-2.0	0.9	-2.6	0.5	-2.7	2.6	1.7	1.7	-0.4
Investment	-2.7	13.0	3.3	-0.9	2.7	7.8	7.3	4.9	4.1	3.7	4.1
Residential	6.8	13.3	-11.7	-7.7	2.2	9.2	2.1	2.6	2.7	2.2	0.1
Non-residential	-5.3	12.9	9.2	1.7	2.9	7.4	9.2	5.6	4.4	4.0	5.4
Inventories Contribution	-0.6	-3.7	-1.7	2.1	5.4	0.1	-0.7	-0.7	-0.7	-0.7	0.7
Net Exports Contribution	-0.2	-2.0	-0.4	-1.5	-0.7	-1.9	-3.8	0.0	0.2	0.2	-1.3
Exports	-13.6	-2.9	7.6	-5.3	22.4	4.5	-5.9	5.2	6.6	4.2	4.1
Imports	-8.9	9.3	7.1	4.7	17.9	14.0	17.7	3.0	2.8	1.3	9.5
Inflation (3)	1.2	1.9	4.9	5.4	6.7	4.7	8.0	7.6	7.2	6.7	7.3
Euro Area	2020a	Q1:21a	Q2:21a	Q3:21a	Q4:21a	2021a	Q1:22f	Q2:22f	Q3:22f	Q4:22f	2022f
Real GDP Growth (YoY)	-6.5	-0.9	14.6	4.0	4.6	5.3	4.8	3.0	1.8	2.1	2.9
Real GDP Growth (QoQ saar)	-	-0.5	9.1	9.3	1.0	-	0.1	2.0	4.2	2.0	-
Private Consumption	-8.0	-8.9	16.5	19.1	-2.3	3.5	0.4	2.1	3.9	2.8	3.9
<b>Government Consumption</b>	1.1	-2.1	9.4	1.1	1.9	3.8	-0.1	0.7	0.9	0.9	1.3
Investment	-7.3	0.6	5.2	-3.7	14.9	4.3	3.7	-6.7	6.5	5.7	3.2
Inventories Contribution	-0.5	4.3	-2.2	-0.5	1.5	0.4	-0.3	-0.5	-0.5	0.2	-0.1
Net Exports Contribution	-0.4	0.4	0.0	0.9	-2.6	1.4	-0.7	2.7	1.1	-1.0	0.0
Exports	-9.4	5.1	11.8	7.0	12.1	10.9	2.1	2.2	6.0	1.6	5.6
Imports	-9.2	4.8	13.0	5.8	19.8	8.6	3.8	-3.2	4.2	4.1	6.0
Inflation	0.3	1.0	1.8	2.9	4.7	2.6	6.1	8.5	7.6	6.5	7.2

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	BoJ +JPY depreciation @ 20Y highs (¥130) support exporters	+ 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 suppi 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 it 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

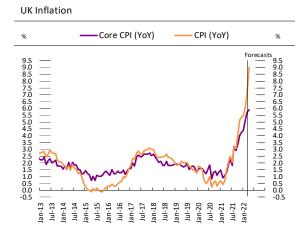


#### **Economic Calendar**

In the US, economic activity indicators for April will be closely monitored. Specifically, retail sales will offer insight regarding private consumption, industrial production regarding business spending, whereas housing starts & building permits regarding residential investment.

In the Euro area, the second estimate of Q1:22 GDP on Tuesday will be closely watched. GDP is expected to remain unchanged compared with the previous estimate (+0.2% qoq | +5% yoy). Meanwhile, the focus also turns to consumer confidence survey (20/5) for May, as it will provide valuable insight regarding the current economic momentum.

In the UK, the unemployment rate for March is released on Tuesday and is expected to remain stable at 3.8%. On Wednesday, the inflation data for April are released. CPI is expected at 9% yoy, from 7% yoy in March, while the core figure is expected at 5.9% yoy from 5.7% yoy.



Source: NBG Research

omic News Calendar for the period: May 10 - May 23, 2022

					Wednesday 11					Thursday 12				
		S	Α	P	US		S	Α	P	US		S	Α	P
ZEW survey expectations	May	-36.0 -	-36.5	-30.8	CPI (YoY)	April	8.1%	8.3%	8.5%	Initial Jobless Claims (k)	May 7	200 -	203	202
	May	-42.5 +		-41.0	Core CPI (YoY)	April	6.0%		6.5%	Continuing Claims (k)	April 30	1390 +		1387
1		72.5	54.5		JAPAN		0.070	0.270	0.570	UK		1550	1343	1507
						Manuals		404.0	4004	GDP (QoQ)	01.33	0.00/	0.00/	4.207
					Leading Index	March	99.0		100.1		Q1:22	0.9% -		1.3%
					Coincident Index	March		97.0	96.8	GDP (YoY)	Q1:22	8.7%	8.7%	6.6%
					CHINA					GDP (MoM)	March	0.1% -	-0.1%	0.0%
					CPI (YoY)	April	1.9%	2.1%	1.5%	Government Spending QoQ	Q1:22	0.5% -	-1.7%	1.5%
							1.570	2.170	1.570	Private Consumption (QoQ)	Q1:22	0.8% -	0.6%	0.5%
											Q1.22	0.0%	0.076	0.576
										Gross Fixed Capital Formation	Q1:22	1.4%	5.4%	1.1%
										(QoQ)				
										Industrial Production (MoM)	March	0.0% -	-0.2%	-0.3%
										Industrial Production (YoY)	March	0.3% +	0.7%	2.1%
										JAPAN		0.570	0.770	2.170
										Eco Watchers Current Survey	April		50.4	47.8
										Eco Watchers Outlook Survey	April		50.3	50.1
										-				
Friday 13					Monday 16					İ				
		-	-				_		-					
US		S	Α	Р	us		S	Α	Р					
University of Michigan consumer		C40	FO 1	CF 2	Empire Manufacturing	May	18.2	-11.6	24.6					
confidence	May	64.0 -	59.1	65.2	Net Long-term TIC Flows (\$ bn)	March		23.1	141.7					
EURO AREA					EURO AREA	. Trial CII		LJ. I	1-1.7					
				0.504					4					
	/larch	-1.4% -		0.5%	Trade Balance SA (€ bn)	March		-17.6	-11.3					
	/larch	-0.9% +	-0.8%	1.7%	European Commission publishes									
CHINA					Spring Economic Forecasts									
	A 1		44.40:	0.007										
	April		11.4%	9.9%	CHINA									
Money Supply M1 (YoY) A	April	5.5%	5.1%	4.7%	Retail sales (YoY)	April	-6.2% -	-11.1%	-3.5%					
	April	10.0%	10.5%	9.7%	Industrial production (YoY)	April		-2.9%	5.0%					
						, .p.iii	U.+70	2.370	5.070					
New Yuan Loans (RMB bn)	April		645	3130	ĺ									
Aggregate Financing (RMB bn)	April		910	4653										
Tuesday 17					Wednesday 18					Thursday 19				
US				_										Р
		S	Α	Р	US		S	Α	Р	US		S	Α	
Retail Sales Advance MoM	April	0.9%	A	0.8%	Building permits (k)	April	1800	Α	1870	Initial Jobless Claims (k)	May 14	205	A 	203
Retail Sales Advance MoM	April April				Building permits (k)	April April				Initial Jobless Claims (k)	May 14 May 7			
Retail Sales Advance MoM Retail sales ex-autos (MoM)	April	0.9% 0.3%		0.8% 1.4%	Building permits (k) Housing starts (k)		1800		1870	Initial Jobless Claims (k) Continuing Claims (k)	May 7	205 1340		203 1343
Retail Sales Advance MoM Retail sales ex-autos (MoM) Industrial Production (MoM)		0.9%		0.8%	Building permits (k) Housing starts (k) UK	April	1800 1760		1870 1793	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn)		205		203
Retail Sales Advance MoM Retail sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market	April April	0.9% 0.3% 0.4%	  	0.8% 1.4% 0.9%	Building permits (k) Housing starts (k) <b>UK</b> CPI (YoY)	April April	1800 1760 8.9%		1870 1793 7.0%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business	May 7 April	205 1340 5.60		203 1343 5.77
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index	April	0.9% 0.3%		0.8% 1.4%	Building permits (k) Housing starts (k) UK	April	1800 1760		1870 1793	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook	May 7	205 1340		203 1343
Retail Sales Advance MoM Retail sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market	April April	0.9% 0.3% 0.4%	  	0.8% 1.4% 0.9%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY)	April April	1800 1760 8.9%		1870 1793 7.0%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook	May 7 April	205 1340 5.60		203 1343 5.77
Retail Sales Advance MoM Retail sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK	April April May	0.9% 0.3% 0.4% 75		0.8% 1.4% 0.9% 77	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN	May 7 April May	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate M	April April	0.9% 0.3% 0.4%	  	0.8% 1.4% 0.9%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY)	April April	1800 1760 8.9%		1870 1793 7.0%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) All Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN	May 7 April May	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May	0.9% 0.3% 0.4% 75		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) A Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) CO	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) All Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  C	April April May March	0.9% 0.3% 0.4% 75 3.8%		0.8% 1.4% 0.9% 77 3.8% 0.2%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)	April April April	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) ARHAI sales ex-autos (MoM) NAHB housing market confidence index  UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20	April April May March	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)	April April April	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) ARIA Isales ex-autos (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK	April April May March 21:22 21:22	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23 GERMANY	April April April Q1:22	1800 1760 8.9% 5.9%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail sales ex-autos (MoM) AMB housing market confidence index  UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK	April April May March 21:22 21:22	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23 GERMANY	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%	  	1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Retail sales ex-autos (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM	April April May March	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) ARHAI sales ex-autos (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN	April April May March Q1:22 Q1:22	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%	  	1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) AMHB housing market confidence index  UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN (PI (YoY) AMHB AND COM (MoM) AM	April April May March 21:22 21:22 April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
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Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) Core CPI (YoY) - ex. Fresh Food ACOPP (YoY) - ex. Fresh Food	April April May March 21:22 21:22 April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0%		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) - ex. Fresh Food and Energy	April April May  March 21:22 21:22 April April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$\frac{\sqrt{2}}{2}\$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0% P -1.1% 1.2% 0.8%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) - ex. Fresh Food and Energy	April April May  March 21:22 21:22 April April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$\frac{\sqrt{3}}{2}\$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0% P -1.1% 1.2% 0.8%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) Core CPI (YoY) - ex. Fresh Food Core CPI (YoY) - ex. Fresh Food and Energy EURO AREA	April April May  March 21:22 21:22  April April April April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) Core CPI (YoY) - ex. Fresh Food Core CPI (YoY) - ex. Fresh Food and Energy EURO AREA	April April May  March 21:22 21:22 April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$\frac{\sqrt{3}}{2}\$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0% P -1.1% 1.2% 0.8%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) Core CPI (YoY) - ex. Fresh Food Core CPI (YoY) - ex. Fresh Food and Energy EURO AREA	April April May  March 21:22 21:22  April April April April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
Retail Sales Advance MoM Retail Sales ex-autos (MoM) Industrial Production (MoM) NAHB housing market confidence index UK ILO Unemployment Rate EURO AREA GDP (QoQ) GDP (YoY)  Friday 20 UK Retail sales Ex Auto MoM JAPAN CPI (YoY) Core CPI (YoY) - ex. Fresh Food Core CPI (YoY) - ex. Fresh Food and Energy EURO AREA	April April May  March 21:22 21:22  April April April April April April	0.9% 0.3% 0.4% 75 3.8% 0.2% 5.0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		0.8% 1.4% 0.9% 77 3.8% 0.2% 5.0%	Building permits (k) Housing starts (k) UK CPI (YoY) Core CPI (YoY) JAPAN GDP (QoQ)  Monday 23  GERMANY IFO- Business Climate Indicator IFO-Expectations	April April April Q1:22	1800 1760 8.9% 5.9% -0.4%		1870 1793 7.0% 5.7% 1.1%	Initial Jobless Claims (k) Continuing Claims (k) Existing home sales (mn) Philadelphia Fed Business Outlook JAPAN Exports YoY	May 7 April May April	205 1340 5.60 17.0		203 1343 5.77 17.6
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Developed N	larkets	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	<b>Emerging Markets</b>	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)
US	S&P 500	4024	-2.4	-15.6	-2.2	42.7	MSCI Emerging Markets	59538	-2.1	-15.0	-17.5
Japan	NIKKEI 225	26428	-2.1	-8.2	-3.7	30.4	MSCI Asia	899	-2.1	-16.0	-19.5
UK	FTSE 100	7418	0.4	0.5	6.5	25.6	China	65	-0.2	-22.4	-36.2
Canada	S&P/TSX	20100	-2.6	-5.3	5.0	38.6	Korea	792	-0.9	-13.1	-18.0
Hong Kong	Hang Seng	19899	-0.5	-15.0	-28.2	-17.7	MSCI Latin America	91717	0.9	-0.6	-9.8
Euro area	EuroStoxx	413	1.4	-13.7	-5.7	32.0	Brazil	309064	1.6	0.8	-17.3
Germany	DAX 40	14028	2.6	-11.7	-7.7	33.1	Mexico	46361	0.4	-7.1	3.9
France	CAC 40	6363	1.7	-11.0	1.2	46.4	MSCI Europe	2379	-0.7	-65.7	-63.1
Italy	FTSE/MIB	24048	2.4	-12.1	-1.8	40.0	Russia*	2308	-3.6	-39.1	-36.6
Spain	IBEX-35	8338	0.2	-4.3	-7.0	25.7	Turkey	2661998	-1.7	28.1	73.7

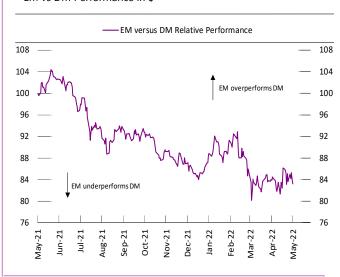
in US Dollar terms	Current	1-week	Year-to-Date	1-Year	2-year	in local currency	Current	1-week	Year-to-Date	1-Year
	Level	change (%)	change (%)	change (%)	change (%)		Level	change (%)	change (%)	change (%)
Energy	232.8	-2.8	33.4	43.1	98.3	Energy	243.2	-2.4	37.3	50.4
Materials	325.5	-3.6	-9.6	-10.7	48.9	Materials	322.6	-2.8	-5.4	-3.9
Industrials	288.5	-2.2	-17.6	-14.1	38.1	Industrials	297.8	-1.9	-14.1	-8.3
Consumer Discretionary	323.1	-2.9	-26.8	-16.8	31.4	Consumer Discretionary	321.3	-2.7	-24.8	-13.1
Consumer Staples	276.9	0.2	-5.6	1.2	22.9	Consumer Staples	285.7	0.7	-1.9	7.0
Healthcare	329.3	-1.4	-10.9	1.1	20.3	Healthcare	332.2	-1.1	-8.5	5.0
Financials	128.1	-2.5	-14.3	-11.0	52.8	Financials	131.6	-2.0	-11.5	-6.3
IT	432.0	-3.2	-24.5	-3.3	40.3	IT	423.2	-3.1	-23.8	-1.5
Telecoms	81.9	-0.5	-23.3	-20.5	16.4	Telecoms	87.1	-0.3	-22.0	-18.4
Utilities	157.5	-1.3	-4.1	1.0	22.8	Utilities	165.3	-0.8	-1.3	6.0

10-Year Government Bond Yields	Current	Last week	Year Start	One Year Back	10-year average	Government Bond Yield Spreads (in bps)	Current	Last week	Year Start	One Year Back
US	2.93	3.13	1.51	1.66	2.04	US Treasuries 10Y/2Y	36	46	78	150
Germany	0.96	1.11	-0.18	-0.12	0.44	US Treasuries 10Y/5Y	5	8	25	82
Japan	0.24	0.24	0.07	0.09	0.23	Bunds 10Y/2Y	84	80	46	55
UK	1.75	1.96	0.97	0.89	1.41	Bunds 10Y/5Y	35	29	28	40
Greece	3.46	3.53	1.32	1.05	6.51					
Ireland	1.59	1.83	0.25	0.30	1.66	Corporate Bond Spreads (in	Current	Last week	Voor Ctort	One Year
Italy	2.86	3.12	1.17	1.05	2.30	bps)	Current	Last week	Year Start	Back
Spain	2.01	2.21	0.57	0.58	1.92	EM Inv. Grade (IG)	182	169	139	153
Portugal	2.06	2.27	0.46	0.59	2.84	EM High yield	699	655	618	508
						US IG	147	140	98	93
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	463	418	310	337
<b>30-Year FRM</b> <sup>1</sup> (%)	5.53	5.36	3.31	3.11	4.01	Euro area IG	165	157	98	85
vs 30Yr Treasury (bps)	242.5	214.1	138.9	71.9	129.4	Euro area High Yield	501	486	331	309

Foreign Exchange	Current	1-week change (%)	1-month change (%)	1-Year change (%)	Year-to-Date change (%)	Commodities	Current	1-week change (%)	1-month change (%)	1-Year change (%)
Euro-based cross rates										
EUR/USD	1.04	-1.8	-4.2	-13.9	-8.6	Agricultural	581	2.4	1.3	30.3
EUR/CHF	1.04	-0.1	2.7	-4.8	0.5	Energy	383	-1.7	5.2	77.6
EUR/GBP	0.85	-0.7	2.2	-1.1	1.3	West Texas Oil (\$/bbl)	110	0.7	6.0	73.1
EUR/JPY	134.48	-2.6	-1.4	1.6	2.7	Crude brent Oil (\$/bbl)	112	-0.7	2.5	66.4
EUR/NOK	10.19	2.1	6.4	0.9	1.6	HH Natural Gas (\$/mmbtu)	7.7	-8.2	14.7	159.8
EUR/SEK	10.47	0.0	1.3	3.1	1.7	TTF Natural Gas (EUR/mwh)	97	-4.7	-8.0	269.1
EUR/AUD	1.50	0.9	2.8	-3.7	-3.8	Industrial Metals	493	-3.8	-14.0	4.3
EUR/CAD	1.35	-1.2	-1.8	-8.1	-6.3	Precious Metals	2352	-3.9	-9.7	-3.1
USD-based cross rates						Gold (\$)	1812	-3.8	-8.4	-0.8
USD/CAD	1.29	0.5	2.5	6.7	2.5	Silver (\$)	21	-5.6	-18.0	-22.3
USD/AUD	1.45	2.7	7.2	11.8	5.2	Baltic Dry Index	3104	14.2	50.1	0.9
USD/JPY	129.38	-0.8	2.9	18.1	12.3	Baltic Dirty Tanker Index	1133	-2.5	-34.4	85.7







#### Data as of May 13<sup>th</sup> – Rebased @ 100

#### Equity Market Performance - G4



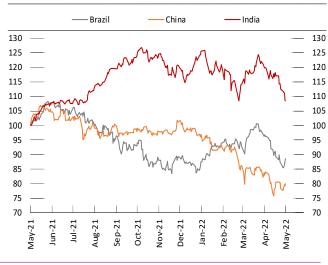
Data as of May  $13^{th}$  – Rebased @ 100

#### Equity Market Performance - Euro Area G4



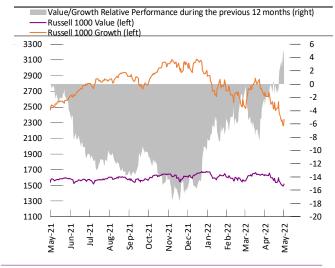
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#### **Equity Market Performance – Emerging Markets**



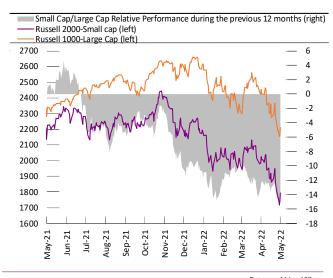
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#### Russell 1000 Value & Growth Index



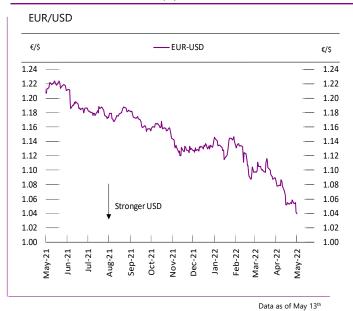
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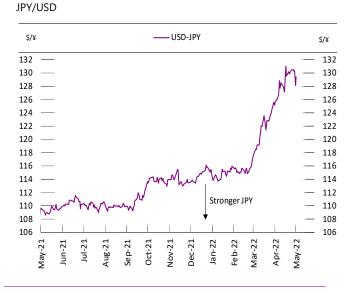
#### Russell 2000 & Russell 1000 Index



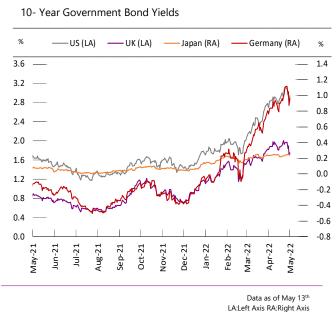
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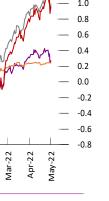






Data as of May 13th





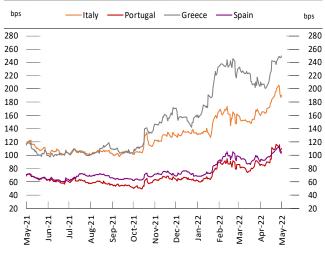


Gold (\$/ounce)

2,100

2,050

2,000



Data as of May 13th

\$/ounce

- 2,100

2,050

2,000





1,950 1,950 1,900 1,900 1,850 1,850 1,800 1,800 1,750 1,750 1,700 1,700 1,650 1,650 Jun-21 Jan-22 Feb-22 Apr-22 Jul-21 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 May-21 Mar-22 May-22

——Gold

Data as of May  $13^{\text{th}}$ 



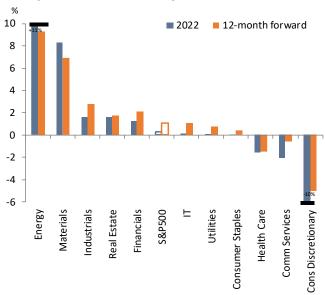
#### **US Sectors Valuation**

		Price (\$)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/BV R	atio	
	13/5/22	% Weekly Change	%YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
S&P500	4024	-2.4	-15.6	10.0	10.0	1.6	1.7	17.7	16.1	17.2	17.1	3.8	3.4	3.6	3.0
Energy	612	-2.9	44.8	100.5	-12.1	3.0	3.1	9.7	11.1	10.2	15.7	2.3	2.1	2.3	1.7
Materials	518	-2.5	-9.1	18.5	-5.3	2.0	2.1	13.6	14.3	13.8	16.1	2.8	2.6	2.7	2.7
Financials															
<b>Diversified Financials</b>	931	-3.1	-14.9	-7.5	11.7	1.7	1.8	14.6	13.1	14.0	14.9	1.7	1.6	1.7	1.6
Banks	333	-4.9	-20.4	-16.4	16.8	3.2	3.5	10.2	8.8	9.7	11.5	1.1	1.0	1.1	1.1
Insurance	550	-2.4	-0.1	0.2	14.7	2.1	2.3	13.7	11.9	13.1	11.7	1.7	1.6	1.7	1.2
Real Estate	270	-3.9	-17.0	11.5	5.8	3.0	3.1	19.5	18.5	19.2	18.8	3.4	3.5	3.4	3.3
Industrials															
Capital Goods	788	-2.9	-11.6	21.8	18.0	1.8	2.0	18.5	15.7	17.4	17.1	4.2	3.7	4.0	3.9
Transportation	985	-1.8	-12.6	123.0	27.2	1.8	1.9	16.7	13.2	N/A	13.9	5.5	4.5	5.1	4.1
Commercial Services	470	-2.5	-13.5	10.6	11.0	1.2	1.3	25.2	22.7	24.3	21.5	5.7	5.1	5.4	4.0
Consumer Discretionary															
Retailing	3091	-1.0	-26.9	-22.5	40.2	0.8	0.8	32.1	22.9	28.7	27.0	10.1	8.3	9.5	9.0
Consumer Services	1226	-3.2	-18.9	3175.1	97.6	1.2	1.4	38.9	19.7	N/A	28.7	24.4	17.0	21.7	10.3
Consumer Durables	373	-1.5	-30.0	20.9	8.5	1.7	1.8	10.9	10.0	10.6	17.5	2.9	2.5	2.7	3.4
Automobiles and parts	142	-9.8	-28.8	28.1	18.2	0.2	0.2	29.0	24.5	N/A	15.2	5.4	4.5	5.1	2.7
IT															
Technology	2801	-5.2	-17.9	9.3	7.3	0.9	0.9	20.9	19.4	20.3	15.3	14.2	12.3	13.5	6.5
Software & Services	2992	-3.3	-23.2	13.9	15.4	0.9	1.0	24.8	21.5	23.6	21.2	7.7	6.5	7.2	6.2
Semiconductors	1940	-1.3	-26.2	14.1	10.6	1.4	1.6	16.2	14.7	15.7	15.5	4.6	4.0	4.4	3.8
Communication Services	200	-0.2	-25.3	-0.6	16.2	0.9	0.9	16.7	14.4	15.9	19.1	3.0	2.7	2.9	3.2
Media	776	-0.1	-28.4	2.3	18.5	0.3	0.4	18.4	15.6	17.4	22.5	3.7	3.2	3.5	3.7
Consumer Staples															
Food & Staples Retailing	671	-0.8	-4.3	7.1	7.5	1.5	1.5	22.3	20.8	21.7	18.3	4.9	4.4	4.7	3.6
Food Beverage & Tobacco	873	1.1	7.0	3.0	6.6	3.0	3.2	20.4	19.2	20.0	18.4	5.7	5.8	5.7	5.1
Household Goods	880	-0.5	-9.9	2.0	9.7	2.3	2.4	26.2	23.9	25.3	21.3	10.8	10.4	10.7	6.7
Health Care															
Pharmaceuticals	1208	0.2	-7.0	6.4	-4.9	2.0	2.1	14.1	14.8	14.4	15.3	5.0	4.4	4.8	4.3
Healthcare Equipment	1776	-2.4	-11.3	3.2	10.0	1.2	1.2	19.1	17.3	18.4	16.8	3.7	3.3	3.6	3.0
Utilities	362	-1.3	-0.6	1.6	8.0	3.0	3.2	20.7	19.2	20.2	17.1	2.2	2.1	2.1	1.8

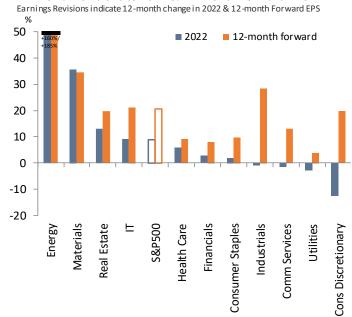
Blue box indicates a value more than +2standard devation from average, light blue a value more than +1standard devation from average. Orange box indicates a value less than -2standard devation from average, light orange a value less than -1standard devation from average

## 1-month revisions to 2022 & 12-month Forward EPS

 $Earnings\,Revisions\,indicate\,1-month\,change\,in\,2022\,\&\,12-month\,Forward\,EPS$ 



#### 12-month revisions to 2022 & 12-month Forward EPS



Data as of May 13<sup>th</sup> 12-month forward EPS are 63% of 2022 EPS and 37% of 2023 EPS

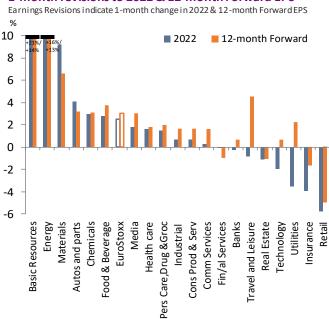


#### **Euro Area Sectors Valuation**

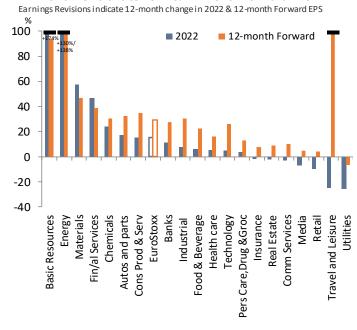
		Price (€)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	E Ratio			P/	BV Ratio	
	13/5/22	% Weekly Chang	ge %YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
EuroStoxx	413	1.4	-13.7	10.1	9.3	3.2	3.5	13.3	12.2	12.9	14.5	1.6	1.5	1.5	1.5
Energy	319	-0.5	10.4	76.8	-14.6	4.9	5.1	6.2	7.3	6.6	13.1	1.2	1.1	1.2	1.2
Materials	973	1.6	-6.7	6.9	-13.2	2.7	2.8	11.6	13.3	12.2	15.7	1.7	1.6	1.7	1.7
Basic Resources	234	-1.5	-5.6	5.0	-39.9	3.0	3.2	4.1	6.8	5.1	10.0	0.7	0.6	0.7	0.8
Chemicals	1415	2.0	-6.8	7.8	4.0	2.6	2.7	16.4	15.8	16.2	16.7	2.3	2.1	2.2	2.3
Financials															
Fin/al Services	518	1.4	-10.5	26.4	-9.6	3.0	3.1	11.2	12.4	11.7	14.6	1.3	1.3	1.3	1.2
Banks	86	3.6	-14.6	-4.4	11.1	6.3	7.3	7.6	6.8		9.9	0.6	0.5	0.5	0.7
Insurance	289	2.6	-5.5	0.1	13.7	5.7	6.1	9.6	8.4	9.2	9.6	0.9	0.8	0.9	0.9
Real Estate	184	0.1	-17.6	7.1	6.8	4.5	5.5	14.1	13.2	13.8	17.0	0.7	0.7	0.7	1.0
Industrial	952	0.6	-18.7	19.8	15.2	2.4	2.7	17.1	14.8	16.3	17.3	2.5	2.3	2.5	2.6
Consumer Discretionary															
Media	253	-0.4	-11.4	13.4	14.2	2.5	2.7	19.8	17.4	18.9	17.3	2.6	2.5	2.6	2.2
Retail	449	1.7	-35.2	-4.8	10.8	4.7	5.1	18.9	17.0	18.2	26.2	3.5	3.4	3.5	5.7
Automobiles and parts	531	2.0	-15.8	0.4	6.4	6.0	5.9	5.7	5.4	5.6	8.6	0.8	0.7	0.8	1.0
Travel and Leisure	169	3.3	-12.9	N/A	82.1	1.3	1.9	26.5	14.6	N/A	N/A	2.2	2.0	2.1	2.2
Technology	732	1.5	-25.6	8.8	23.2	1.1	1.2	22.2	18.0	20.7	21.3	3.2	2.9	3.1	3.6
Communication Services	298	1.6	3.4	14.7	13.6	3.7	4.0	16.7	14.7	16.0	14.4	1.6	1.5	1.6	1.7
Consumer Staples															
Food, Beverage & Tobacco	176	1.9	-8.3	14.4	12.8	1.8	2.1	19.8	17.6	19.0	20.0	2.1	2.0	2.1	2.6
Personal Care, Drug & Grocery	184	1.2	-8.5	3.0	9.9	2.5	2.6	16.6	15.1	16.1	17.5	2.3	2.2	2.3	2.4
Consumer Products & Services	393	2.8	-25.4	9.5	14.0	1.8	2.0	25.1	22.0	24.0	24.5	5.3	4.7	5.0	4.0
Health care	857	0.3	-8.1	9.6	8.0	2.2	2.4	16.7	15.4	16.2	16.6	2.1	2.0	2.1	2.3
Utilities	362	-0.1	-8.2	-31.7	54.4	4.3	5.0	19.5	12.6	17.0	13.7	1.5	1.5	1.5	1.2

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## 1-month revisions to 2022 & 12-month Forward EPS



#### 12-month revisions to 2022 & 12-month Forward EPS



Data as of May 13<sup>th</sup> 12-month forward EPS are 63% of 2022 EPS and 37% of 2023 EPS

Data as of May 13<sup>th</sup>

12-month forward EPS are 63% of 2022 EPS and 37% of 2023 EPS

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



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