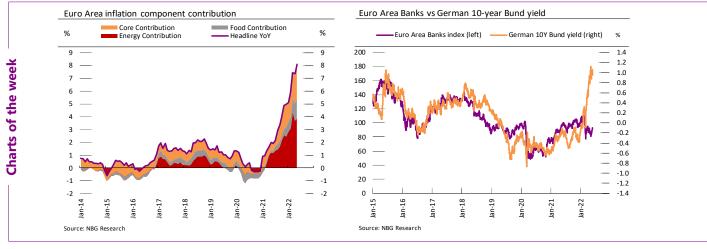
Global Markets Roundup

National Bank of Greece | Economic Research Division | May 31, 2022



- US equity markets advanced by +6.6% in the past week, interrupting seven consecutive weeks of decline and trimming their year-to-date losses to -13%. The price decline has been solely driven by multiple contraction, from 21.7x to 17.6x on May 27th (see graph page 3). On the other hand, 12-month forward earnings' estimates have been increased by +7% year-to-date to \$236.
- Investors' sentiment was very negative. The American Association of Individual Investors (AAII) survey -- a contrarian indicator -- has revealed early in the past week, that optimism about the direction of the equity market six-months ahead was 19.8% (versus a long-term average of 38%), remaining below 20% for the fourth time in seven weeks.
- Thus, slightly encouraging economic news were adequate to turn sentiment rapidly. US consumption entered Q2 on a strong footing, with real spending increasing by +0.7% mom in April, albeit with consumers drawing down extra savings. On the inflation front, the core PCE index increased by 0.3% mom in April, with the annual rate moderating to 4.9% yoy, from 5.2% yoy in March.
- We expect increased volatility to continue, as central banks' guidance points to significantly higher policy interest rates from current levels, in order to combat inflation. The European Central Bank is expected to exit negative interest rates by the end of the third quarter, with the flash euro area inflation estimate suggesting that price pressures remain acute.
- Specifically, the headline index accelerated to +8.1% yoy in May from +7.4% in April (consensus:+7.7%). More importantly, the core index increased by +3.8% yoy in May from +3.5% in April, versus expectations for a stable outcome, with both metrics at record highs (since 1997). Energy increased on a monthly basis (+2%, nsa), with the annual rate up by +39.2% from +37.5%.
- On Monday, oil prices surpassed the \$120/barrel threshold, for the first time since March 25th, as European leaders reached an agreement, in principle, on a 6th package of sanctions against Russia that includes, *inter alia*, a partial ban on Russian oil imports. The ban will regard only oil imported by ships, which currently represents more than 2/3 of oil imports from Russia, but will temporarily exclude oil delivered via pipelines, as landlocked Hungary (c. 65% of its oil imports from Russia through the Druzhba pipeline) continued to oppose a complete oil embargo.
- Germany and Poland, which could benefit from the above exemption, have volunteered to stop their oil imports through pipelines by the end of 2022, extending the ban at almost 90% of Russian oil imports.
- Note that Russia was the largest supplier of oil to the EU, accounting for 25% of EU's oil imports in 2021 (26% in 2020), in terms of trade value, well above the second largest supplier (Norway: 9% in 2021). As far as the natural gas imports are concerned, Russia was also the largest EU supplier, responsible for 39% of EU's natural gas imports (42% in 2020), in terms of trade value. However, in April 2022, the natural gas supply from Russia via pipelines declined to 26% of EU gas consumption from 40% in April 2021, as monthly LNG deliveries to Europe reached a new record of 12.6 bcm.



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US GDP in Q1:22 was insignificantly revised in the 2nd estimate

- The 2nd estimate for real GDP growth in Q1:22 came out at -1.5% qoq saar (+3.5% yoy), from -1.4% qoq saar (+3.6% yoy) in the previous estimate and +6.9% qoq saar in Q3:21, largely as expected. Regarding the expenditure components, some (mutually offsetting) meaningful revisions took place, albeit the key takeaways were roughly unchanged. These include a resilient private consumption (+3.1% qoq saar) and strong growth for business investment (+9.2% qoq saar) with sharp readings for spending on equipment (+13.2%) and investment in intellectual property products (+11.6%), more than offsetting softness in structures investment (-3.6% qoq saar). At the same time, imports surged by +18.3% qoq saar and was the main drag on overall growth, the deceleration of which though, was mainly due to inventories (drag of 1.1 pp following a sharp positive contribution of 5.3 pps in Q4:21).
- Regarding Q2:22, private consumption (70% of US GDP) entered on a strong note. In the event, in April, personal spending (in constant price terms) rose by 0.7% mom, from +0.5% mom in March. The new motor vehicles component led the increase, up by 4.9% mom, likely supported by pent-up demand (as the supply has been constrained for c. a year now, in view of supply chain shortages, especially regarding semiconductors).

US overall corporate profits declined on a quarterly basis in Q1:22 according to the national accounts, remaining though strong

• Corporate profits (including inventory valuation and capital consumption adjustments) of public and private companies (National Income and Product Accounts - NIPA) fell by 8.7% on a seasonally adjusted annualized quarterly basis in Q1:21. Looking past the quarterly growth which often demonstrates high volatility (even outside the context of the pandemic environment), the (usually more informative) annual profit growth came out at +12.5% compared with +21.0% yoy in Q4:21. Profits from domestic non-financial activities were up by 14.8% on an annual basis, profits from domestic financial activities posted a rise of 7.6% yoy, while the annual pace of growth of profits from abroad stood at +9.6%.

Euro area PMIs in May maintained an outlook of strong growth in services in view of pent-up demand and of manufacturing output struggling to grow

• The composite PMI decreased by 0.9 pts to 54.9 in May, slightly below consensus estimates for 55.0. The services PMI declined by 1.4 pts, albeit to a still solid 56.3, as activity in tourism & recreation continued to expand robustly on the back of pent-up demand following the easing of the public health crisis. At the same time, the manufacturing PMI fell by 1.1 pt to 54.4, with the output component (which is incorporated in the calculation of the headline composite index) though, continuing to struggle to remain above the expansion/contraction threshold of 50.0 (+0.5 pts to 51.2), as production is restrained by supply chain hindrances (fresh disruptions related to the war in Ukraine and to lockdowns in China, exacerbated the already existing challenges). According to S&P Global, industry-wise, a partial recovery of automobiles output (albeit from low levels as the sector had been a major

laggard in previous months) offset a decline in many other manufacturing segments. Notably, demand appeared to ease in the manufacturing survey (the new orders component fell below the expansion/contraction threshold for the first time since June 2020) on account of, *inter alia*, soaring prices, increased risk aversion and a shift of spending to services activities. On prices, both the components of input costs and average prices charged for goods and services, cooled somewhat, remaining though at particularly high levels.

Recall that demand challenges stemming from the rising cost of living are also evident in consumer surveys. In the event, DG ECFIN's consumer confidence indicator stood at a particularly low -21.1 in May (from -22.0 in April), versus an average of -11.4 since 2001.

Euro area bank lending remained robust in April

The annual pace of growth of overall private sector borrowing from commercial banks, accelerated by 0.7 pps in April, to +5.3% yoy, a c. 2-year high. Regarding the two major private sector components, they performed as follows: i) loan growth to households (adjusted for sales and securitizations) was broadly stable at +4.5% yoy, the highest since October 2008, due to a strong momentum regarding lending for house purchases (+5.3% yoy in non-adjusted for sales and securitizations terms | +3.0% yoy for consumer credit). That development is closely linked to the strong impetus for the housing market. Recall that house prices in the euro area rose by 9.4% yoy in Q4:21 (Eurostat's House Price Index), a record (since 2005) high, with an increase of 15.5% from pre-pandemic (Q4:19) levels; ii) the annual growth of loans to nonfinancial corporations (NFCs) accelerated sharply (also boosted by favorable base effects apart from a robust net monthly flow), by 1.1 pp to +5.2%. Recall that country-wise, the annual growth rate of loans to non-financial corporations stood at +8.0% in Germany, +7.0% in France, +2.0% in Italy and +1.2% in Spain.

UK PMIs eased substantially in May

PMIs in May suggested a sharp slowdown for overall business activity growth. Specifically, the PMI in the dominant services sector (c. 80% of UK GDP) fell by 7.1 pts to 51.8, undershooting by a wide margin consensus estimates for 56.8, with still strong growth in travel, leisure & events (on the back of pent-up demand), contrasting with a sharp slowdown in other services sectors. At the same time, the manufacturing PMI fell by 1.2 pts to 54.6 (consensus: 55.0), with the output component at 51.8 from 54.3 in April, weighed, inter alia, by the supply chain jitters. Notably, the new export orders component fell in contractionary territory, at its lowest since June 2020, with manufacturers highlighting Brexit-related trade frictions as the main weighing factor. Overall, the composite index fell by 6.4 pts to 51.8, with the negative effects on consumer demand from the rising cost of living and geopolitical uncertainties, being a key theme. Notably, the weakening of demand rendered UK corporations more cautious in passing higher input costs (the average cost burdens component rose sharply, to a new record - since 1996 - high) to clients (the prices charged component remained particularly high, but declined slightly on a monthly basis), suggesting a squeeze in business margins.



Equities

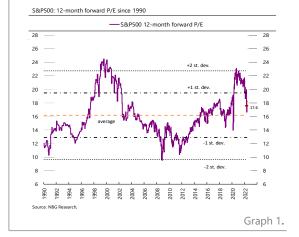
 Global equity markets recorded significant gains in the past week. Specifically, the MSCI ACWI rose by 5% (-14% ytd), with Developed Markets overperforming (+5.5% | -13% ytd) their Emerging Markets peers (+0.8% | -15% ytd) by a wide margin. In the US, the S&P500 end the week up by +6.6% wow, posting its largest weekly increase since November 2020, its first positive week following 7 consecutive weeks with losses, its longest negative streak since 2001. The S&P500 rebounded from nearly oversold conditions, after Relative Strength Index (RSI), an index that is used to identify overbought (above 70) and oversold conditions (below 30), fell to 35 on May 20th, when the S&P500 entered briefly into bear market territory during intraday trading, having declined by 20% from its early-January peak (4797). The better-than-expected earnings results of several retailers, including Dollar Tree Inc. (+29% wow), Dollar General Corp. (+21.8% wow), Macy's Inc. (+29.1% wow) and Williams-Sonoma Inc. (+21% wow), combined with the positive US personal spending data (+3.1% qoq saar in Q1:2022 and +0.9% mom in April, in nominal terms), offered reassurance regarding the resilience of consumer demand, easing investors' concerns for the Retail sector's outlook. Furthermore, the Broadcom's announcement of an \$61 bn deal to acquire the cloud-computing company VMware, which will represent one of the largest mergers in the technology sector, supported sentiment. On the other side of the Atlantic, the Eurostoxx rose by 3.6% in the past week and by further +0.8% on Monday, with the Retail sector overperforming (+7.5% wow | +1.7% on Monday).

Fixed Income

 Government bond yields were mixed in the past week. Specifically, in the US, the 10-year yield fell by 5 bps to 2.74%, with investors' estimates regarding how far and fast the Fed will proceed with interest rate hikes after the next two meetings (for each of which, expectations for 50 bps hikes are cemented), posting some signs of plateauing. In Germany, the 10-Year Bund yield remained broadly stable at 0.95% in the past week, while euro area periphery government bond yields fell in view of the partial recovery in risk appetite (Italy's 10-year BTP yield: -12 bps wow to 2.87% | Greece 10-year yield: -23 bps to 3.48%, with a successful reopening of a benchmark bond also playing a role). Yields rose though on Monday (May 30th), by 11 bps to 1.06% for the 10-year Bund, with CPI inflation surprising to the upside in Germany (headline: 8.7% yoy in May, from 7.8% yoy in April, versus consensus estimates for 8.1%). Corporate bond yield spreads narrowed in the past week, especially in the speculative grade spectrum, in view of improved risk appetite. Specifically, US HY spreads declined by 72 bps to 419 bps and their EUR peers by 9 bps wow to 491 bps. Finally, some narrowing also occurred in the investment grade spectrum (US: -14 bps wow to 141 bps | EUR: -1 bp wow to 164 bps).

FX and Commodities

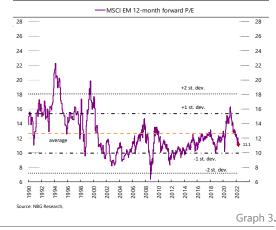
In foreign exchange markets, the Russian ruble's appreciation to multi-year highs ended on Thursday (-9%), following the Central Bank of Russia's decision to lower its key policy interest rate to +11% from +14%. This was the 3rd consecutive decline (by 300 bps each) since early-April, with the rate now closing in on its level prior to the Ukrainian war (+9.5%), when the Bank decided to raise it to +20% along with measures to support the currency (capital controls and obligation by export-focused companies to convert their foreign currency revenues to rubles). Overall, the Ruble fell by 11.5% against the euro (EUR/RUB: 72.4) and by 9.9% against the USD (USD/RUB: 67.6), declining from 5-year and 4-year highs, respectively. Finally, in commodities, oil prices rose in the past week, while also entering current week on a positive note, supported by the EU decision for a ban on almost 90% of Russian oil imports by the end of the year. Furthermore, the China reopening theme (some relaxation of Covid restrictions in Beijing and Shanghai) contributed also to the upside. Overall, the Brent ended the week up by 6.1% to \$119.4/barrel, while the WTI rose by 1.6% to \$115.1/barrel.



EuroStoxx: 12-month forward P/E since 1990



MSCI Emerging Markets: 12-month forward P/E since 1990



Quote of the week: "Increases of 25 basis points in the July and September meetings are a benchmark pace. Any discussion about other moves would have to make the case for moving more strongly than this sequence of hikes in July and September. The discussion will be had, but our current assessment of the situation...calls for a gradual approach to normalization", **Member of the Executive Board (and Chief Economist) of the ECB, Philip R.Lane, May 30th 2022.**

NBG Global Markets Roundup | Economic & Markets Forecasts

Interest Rates & Foreign Exchange Forecasts

0-Yr Gov. Bond Yield (%)	May 27th	3-month	6-month	12-month	Official Rate (%)	May 27th	3-month	6-month	12-month
Germany	0,95	1,00	1,10	1,30	Euro area	-0,50	-0,25	0,25	0,75
US	2,74	3,00	3,10	3,20	US	1,00	1,50	2,00	3,00
UK	1,89	1,90	1,92	1,91	UK	1,00	1,25	1,50	1,75
Japan	0,23	0,23	0,23	0,27	Japan	-0,10	-0,10	-0,10	-0,10
urrency	May 27th	3-month	6-month	12-month		May 27th	3-month	6-month	12-month
EUR/USD	1,07	1,06	1,08	1,10	USD/JPY	127	124	126	125
EUR/GBP	0,85	0,86	0,87	0,87	GBP/USD	1,26	1,24	1,25	1,26
EUR/JPY	136	132	136	138					

Forecasts at end of period

Economic Forecasts											
United States	2020a	Q1:21a	Q2:21a	Q3:21a	Q4:21a	2021a	Q1:22a	Q2:22f	Q3:22f	Q4:22f	2022
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	2022
Real GDP Growth (YoY)	-6,5	-0,9	14,6	4,0	4,6	5,4	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
Government Consumption	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

a: Actual, f: Forecasts, 1. Seasonally adjusted YoY growth rate, 2. Seasonally adjusted annualized QoQ growth rate, 3. Year-to-year average % change

12-Month View & Key Factors for Global Markets US Euro Area UK Japan + Households' balance sheets are healthy +Still high equity risk premium relative to other regions +Still aggressive QE and *yield-curve* targeting by the +Significant exposure to commodities + Still loose fiscal policy in 2022 (plus RRF) + Service-oriented sectors are re-opening +Undemanding valuations in relative terms relative to BoJ + Sentiment (e.g. AAII) and positioning indicators are - Geopolitical uncertainty (Ukraine-Russia, natural gas) + JPY depreciation @ 20Y highs (¥130) support other regions hitting extreme lows could intensify exporters - Elevated domestic policy uncertainty Peaking profit margins - Logistic disruptions (vaccine) and renewed lockdo - Signs of policy fatigue regarding structural reforms Markets - Recession risks are increasing in China delay the export-led recovery and fiscal discipline - P/Es (Valuations) still remain above I-t means, despite - Chinese growth decelaration the recent correction Equity **N** • Neutral Neutral/Positive Neutral/Negative Neutral +Valuations appear rich despite the 200bps increase, +Valuations still appear excessive compared with long- +Sizeable fiscal deficits +Inflation expectations could drift higher due to supply with term-premium @ 0% (1% for 2000-2015) term fundamentals +Restructuring efforts to be financed by fiscal policy disruptions (persistent post Brexit, temporary due to +Sizeable fiscal deficit + ECB: End of APP purchases in June 2022, interest rate measures China) Bonds +Underlying inflation pressures under Average Inflation hikes in H2 - Safe haven demand +The BoE is expected to raise rates towards 2% - Political Risks - Extremely dovish central bank - Slowing economic growth post-Brexit Targeting Government Fragile growth outlook ECB QE "stock" effect +Fed: End of asset purchases - Yield-targeting of 10-Year JGB at around 0% - Global search for yield by non-US investors (e.g. Japan, repatriation from EM Economies) continues - Safe haven demand Stable yields expected Slightly higher yields expected Slightly higher yields expected ▲ Slightly higher yields expected +Weak global growth / Safe-haven demand status +Current account surplus +Safe haven demand +Valuations appear undemanding with REER below its +More balanced economic growth recovery (long-+ USD interest rate differential vs peers remain - Still negative interest rates 15-year average significant - Global growth risks remain to the downside term) - Sizeable Current account deficit Foreign Exchange Aggresive Fed tightening Global political uncertainty to decline +Inflation is bottoming out - Additional Quantitative Easing by the Bank of Japan if inflation does not approach 2% Broadly Flat USD against G10 FX ▲ Slightly higher JPY Broadly Flat/Stronger EUR against the USD Broadly stable GBP expected

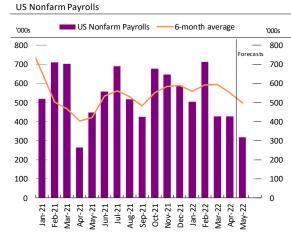
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Economic Calendar

In the US, attention turns to the labor report for May on June 3rd. Consensus expects NFPs of +318k from +428k in April and an unemployment rate of 3.5% from 3.6%. Meanwhile, the ISM Manufacturing (latest: 55.4 | consensus of 54.5 @ 1/6) and Services (latest: 57.1 | consensus of 56.0 @ 3/6) surveys will provide an update on business confidence. On Thursday, the weekly initial and continuing jobless claims will provide a more updated view of labor market conditions.

In the Euro area, the unemployment rate for April is released and is expected stable at 6.8%. On Friday, attention turns to retail sales for April. The monthly figure is expected at +0.3% mom from -0.4% mom in the previous month.



Source: NBG Research

Economic News Calendar for the period: May 24 - June 6, 2022

Touristics 24	-				We do and an 25					Thursday 20				1
Tuesday 24 US		s		Р	Wednesday 25		s		Р	Thursday 26		s		Р
US S&P Global US Manufacturing		5	А	Р	US	May 4	5	Α	Р	US	01-22		A	
	May	57.9	57.5	59.2	FOMC Minutes		0.000	0.40/	0.00/	GDP (QoQ, annualized)	Q1:22	-1.3%	-1.5%	-1.4%
PMI	-				Durable goods orders (MoM)	April	0.6% -	0.4%	0.6%	Personal consumption (QoQ,	Q1:22		3.1%	2.7%
New home sales (k)	April	750 -	591	709	Durable goods orders ex	April	0.6% -	0.3%	1.1%	annualized)				
UK					transportation (MoM)					Initial Jobless Claims (k)	May 21		210	218
S&P Global / CIPS UK PMI	May	55.0	54.6	55.8	GERMANY					Continuing Claims (k)	May 14		1346	1315
Manufacturing SA	-				GDP (QoQ)	Q1:22	0.2%	0.2%	0.2%	Pending home sales (MoM)	April	-1.7%	-3.9%	-1.6%
S&P Global / CIPS UK Services	May	56.8	51.8	58.9	GDP (wda, YoY)	Q1:22	3.7% +		3.7%	WORLD				
JAPAN					Private Consumption (QoQ)	Q1:22	0.2% -	-0.1%	-1.3%	World Economic Forum Annual	May 22-26			
PMI manufacturing	May	53.0	53.2	53.5	Government Spending QoQ	Q1:22	0.4% -	0.1%	0.2%	Meeting	1viay 22-20			
EURO AREA														
S&P Global Eurozone	Mari	E 4 7	54.4	55.5										
Manufacturing PMI	May	54.7	54.4	55.5										
S&P Global Eurozone Services	May	57.1	56.3	57.7										
S&P Global Eurozone Composite	May	55.0		55.8										
	-													
Friday 27				_	Monday 30			_						
US		S	Α	Р	EURO AREA		S	А	Р					
Personal income (MoM)	April	0.6%	0.4%	0.5%	Business Climate Indicator	May		1.3	1.6	1				
Personal spending (MoM)	April	0.8%	0.9%	1.4%	Economic confidence indicator	May	104.9 +		104.9					
PCE Deflator (YoY)	April	6.3%	6.3%	6.6%										
PCE Core Deflator (YoY)	April	4.9%	4.9%	5.2%										
EURO AREA					1					1				
M3 money supply (YoY)	April	6.3%	6.0%	6.3%										
		0.570	0.070	0.070										
					Wednesday 1									
Tuesday 31														
		-		-			-			Thursday 2		_		-
US		S	Α	Р	US		S	A	Р	US		s	A	Р
S&P Case/Shiller house price	March	S	A		US ISM Manufacturing	May	54.5	A 	55.4	US Initial Jobless Claims (k)	May 28	S 	A 	210
S&P Case/Shiller house price index 20 (YoY)	March	S 	A 	P 20.2%	US ISM Manufacturing Construction spending (MoM)	May April		A 		US Initial Jobless Claims (k) Continuing Claims (k)	May 21		A 	210 1346
S&P Case/Shiller house price index 20 (YoY) Conference board consumer			A 	20.2%	US ISM Manufacturing Construction spending (MoM) UK	April	54.5	A 	55.4 0.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence	March May	s 103.7	A 		US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY		54.5	A 	55.4	US Initial Jobless Claims (k) Continuing Claims (k)	May 21			210 1346
S&P Case/Shiller house price index 20 (YoY) Conference board consumer			A 	20.2%	US ISM Manufacturing Construction spending (MoM) UK	April	54.5	A 	55.4 0.1% 12.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence			A 	20.2%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY	April	54.5	A 	55.4 0.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN	May	 103.7		20.2% 107.3	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA	April May	54.5 0.4% 		55.4 0.1% 12.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate	May April April	 103.7 2.6% 		20.2% 107.3 2.6% 1.7%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY	April May	54.5 0.4% 		55.4 0.1% 12.1% 6.8%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM)	May April April April	 103.7		20.2% 107.3 2.6% 1.7% 0.7%	US USM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM)	April May April April	54.5 0.4% 		55.4 0.1% 12.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (YoY) Industrial Production (MOM)	May April April April April	 103.7 2.6% 2.0% 0.1%		20.2% 107.3 2.6% 1.7% 0.7% 0.3%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY)	April May April	54.5 0.4% 		55.4 0.1% 12.1% 6.8% -0.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY)	May April April April April April	 103.7 2.6% 2.0% 0.1% -3.2%		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY	May April April April April	 103.7 2.6% 2.0% 0.1%		20.2% 107.3 2.6% 1.7% 0.7% 0.3%	US ISM Manufacturing Construction spending (MoM) UK Vationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (MOM) Retail sales (YOY) CHINA	April May April April	54.5 0.4% 		55.4 0.1% 12.1% 6.8% -0.1%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (YOY) Industrial Production (MOM) Industrial Production (YOY) Construction Orders YoY EURO AREA	May April April April April April	 103.7 2.6% 2.0% 0.1% -3.2% 		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% -21.2%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JaPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY)	May April April April April April April May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7%		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% -21.2% 7.4%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY)	May April April April April April	 103.7 2.6% 2.0% 0.1% -3.2% 		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% -21.2%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (MOM) Industrial Production (MOM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA	May April April April April April April May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5%		20.2% 107.3 2.6% 1.7% 0.7% -1.7% -21.2% 7.4% 3.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY)	May April April April April April April May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7%		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% -21.2% 7.4%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (VoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI	May April April April April April April May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5%		20.2% 107.3 2.6% 1.7% 0.7% -1.7% -21.2% 7.4% 3.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3	May April April April April April April May May	 103.7 2.6% 2.0% 0.1% 3.2% 7.7% 3.5% 48.5		20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (WoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US	May April April April April April May May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5% 48.5		20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 		55.4 0.1% 12.1% 6.8% -0.1% -2.7%	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k)	May April April April April April May May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5% 48.5 S 318		20.2% 107.3 2.6% 1.7% 0.3% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (YoY) Industrial Production (MOM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k)	May April April April April May May May May	 103.7 2.6% 7.7% 3.5% 48.5 S 318 301		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Nonfarm Payrolls (k) Change in Private Payrolls (k)	May April April April April May May May May May	 103.7 2.6% 2.0% 0.1% -3.2% 48.5 5 3.5% 5 318 301 3.5%		20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Nonfarm Payrolls (k) Unemployment rate Average weekly hours (hrs)	May April April April April May May May May May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5% 48.5 \$ 318 301 3.5% 34.6	- - - - - - - - - - - - - - - - - - -	20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6% 34.6	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Unemployment rate Average Weckly hours (hrs) Average Weckly facuings MoM	May April April April April May May May May May May May May	 103.7 2.6% 0.1% 7.7% 3.5% 48.5 \$ 318 301 3.5% 34.6 0.4%		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% 7.4% 3.5% 47.4 P 428 406 3.6% 3.6% 3.4%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Unemployment rate Average Hourly Earnings MoM Average Hourly Earnings YoY	May April April April April May May May May May May May May May May	 103.7 2.6% 2.0% 0.1% -3.2% 7.7% 3.5% 48.5 \$ 318 301 3.5% 34.6	- - - - - - - - - - - - - - - - - - -	20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6% 34.6	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MOM) Retail sales (YoY) Industrial Production (MOM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Unemployment rate Average Weckly hours (hrs) Average Weckly factings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% 7.7% 3.5% 48.5 \$ 318 301 3.5% 34.6 0.4%		20.2% 107.3 2.6% 1.7% 0.7% 0.3% -1.7% 7.4% 3.5% 47.4 P 428 406 3.6% 3.6% 3.4%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average Worty Earnings MoM Average Hourly Earnings MoM Average Hourly Earnings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% -3.2% 7.7% 3.5% 48.5 S 318 301 3.5% 34.6 901 3.5% 34.6 904% 5.2%		20.2% 107.3 2.6% 0.7% 0.3% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6% 34.6 0.3% 5.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YOY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average weeky hours (Irs) Average Hourly Earnings MoM Average Hourly Earnings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% -3.2% 7.7% 3.5% 48.5 S 318 301 3.5% 34.6 901 3.5% 34.6 904% 5.2%		20.2% 107.3 2.6% 1.7% 0.3% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6% 3.6% 0.3% 5.5% 62.2% 7.0%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average Worty Earnings MoM Average Hourly Earnings MoM Average Hourly Earnings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 2.0% 0.1% 3.2% 48.5 S 318 301 3.5% 34.6 0.4% 5.2% 		20.2% 107.3 2.6% 1.7% 0.7% 0.7% -1.7% -21.2% 7.4% 3.5% 47.4 P 428 406 3.6% 34.6 0.3% 5.5% 62.2%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Unemployment rate Average Hourly Earnings MoM Average Hourly Earnings MoM EuRO AREA	May April April April April May May May May May May May May May May	 103.7 2.6% 2.0% 0.1% -3.2% 3.5% 48.5 S 318 301 3.5% 34.6 0.4% 5.2% 56.0		20.2% 107.3 2.6% 1.7% 0.3% -21.2% 7.4% 3.5% 47.4 P P 428 406 3.6% 4.6 0.3% 5.5% 5.5% 7.0% 5.7.1	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (WoM) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average Hourly Earnings MoM Average Iourly Earnings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% -3.2% 7.7% 3.5% 48.5 S 318 301 3.5% 34.6 0.4% 3.4% 0.4% 0.4% 5.2% 56.0 0.3%		20.2% 107.3 2.6% 1.7% 0.3% -1.7% 0.3% -1.7% -21.2% 47.4 P 428 406 0.3% 5.5% 6.2.% 5.5% 6.2.% 5.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Unemployment rate Average Hourly Earnings MoM Average Hourly Earnings MoM EuRo AREA	May April April April April May May May May May May May May May May	 103.7 2.6% 2.0% 0.1% -3.2% 3.5% 48.5 S 318 301 3.5% 34.6 0.4% 5.2% 56.0		20.2% 107.3 2.6% 1.7% 0.3% -21.2% 7.4% 3.5% 47.4 P P 428 406 3.6% 4.6 0.3% 5.5% 5.5% 7.0% 5.7.1	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
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S&P Case/Shiller house price index 20 (YoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (YoY) Industrial Production (MoM) Industrial Production (YoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average Wourly Earnings MoM Average Hourly Earnings MoM	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% -3.2% 7.7% 3.5% 48.5 S 318 301 3.5% 34.6 0.4% 3.4% 0.4% 0.4% 5.2% 56.0 0.3%		20.2% 107.3 2.6% 1.7% 0.3% -1.7% 0.3% -1.7% -21.2% 47.4 P 428 406 0.3% 5.5% 6.2.% 5.5% 6.2.% 5.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247
S&P Case/Shiller house price index 20 (VoY) Conference board consumer confidence JAPAN Unemployment rate Retail sales (MoM) Retail sales (VoY) Industrial Production (MoM) Industrial Production (NoY) Construction Orders YoY EURO AREA CPI estimate (YoY) Core CPI (YoY) CHINA Manufacturing PMI Friday 3 US Change in Nonfarm Payrolls (k) Change in Private Payrolls (k) Unemployment rate Average Hourly Earnings MoM Average Euro Areta Retail sales (MoM)	May April April April April May May May May May May May May May May	 103.7 2.6% 0.1% -3.2% 7.7% 3.5% 48.5 S 318 301 3.5% 34.6 0.4% 3.4% 0.4% 0.4% 5.2% 56.0 0.3%		20.2% 107.3 2.6% 1.7% 0.3% -1.7% 0.3% -1.7% -21.2% 47.4 P 428 406 0.3% 5.5% 6.2.% 5.5% 6.2.% 5.5%	US ISM Manufacturing Construction spending (MoM) UK Nationwide House Px NSA YoY EURO AREA Unemployment Rate GERMANY Retail sales (MoM) Retail sales (YoY) CHINA Caixin PMI Manufacturing	April May April April April	54.5 0.4% 6.8% 47.0		55.4 0.1% 12.1% 6.8% -0.1% -2.7% 46.0	US Initial Jobless Claims (k) Continuing Claims (k) ADP Employment Change (k)	May 21 May	 301		210 1346 247

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

Equity Markets (in local currency)

Developed M	larkets	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)	Emerging Markets	Current Level	1-week change (%)	Year-to-Date change (%)	1-Year change (%)	2-year change (%)
US	S&P 500	4158	6.6	-12.8	-1.0	37.0	MSCI Emerging Markets	61016	0.2	-12.9	-18.9	13.2
Japan	NIKKEI 225	26782	0.2	-7.0	-6.2	25.0	MSCI Asia	925	-0.1	-13.5	-21.0	12.5
UK	FTSE 100	7585	2.6	2.7	8.1	23.5	China	67	-0.5	-19.5	-37.9	-16.8
Canada	S&P/TSX	20749	2.7	-2.2	4.9	35.9	Korea	799	-0.7	-12.3	-18.1	26.7
Hong Kong	Hang Seng	20697	-0.1	-11.5	-28.9	-11.2	MSCI Latin America	95933	2.3	3.9	-6.8	23.1
Euro area	EuroStoxx	425	3.6	-11.2	-5.1	26.3	Brazil	317968	1.4	3.7	-16.8	13.3
Germany	DAX 40	14462	3.4	-9.0	-6.1	24.1	Mexico	49211	2.0	-1.4	8.4	43.6
France	CAC 40	6516	3.7	-8.9	1.2	39.0	MSCI Europe	2398	-0.2	-65.4	-63.9	-54.8
Italy	FTSE/MIB	24636	2.2	-9.9	-1.7	37.6	Russia*	2408	1.4	-36.4	-35.6	-12.2
Spain	IBEX-35	8934	5.3	2.5	-2.7	24.5	Turkey	2672560	2.0	28.6	76.7	104.6

World Market Sectors (MSCI Indices)

Bond Markets (%)

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	252.8	6.7	44.9	54.9	97.0	Energy	261.6	6.2	47.7	61.8	93.6
Materials	347.2	4.8	-3.6	-4.6	46.3	Materials	338.5	4.0	-0.8	1.3	45.5
Industrials	297.9	4.6	-15.0	-13.3	27.4	Industrials	304.0	4.1	-12.4	-8.3	30.2
Consumer Discretionary	329.7	7.7	-25.3	-18.5	23.1	Consumer Discretionary	325.4	7.3	-23.8	-15.4	25.1
Consumer Staples	271.7	4.8	-7.3	-1.8	18.3	Consumer Staples	276.8	4.3	-5.0	2.8	18.6
Healthcare	343.7	2.9	-7.0	4.2	24.1	Healthcare	343.6	2.5	-5.4	7.4	24.7
Financials	136.1	6.5	-8.9	-7.7	43.3	Financials	138.2	5.9	-7.0	-3.6	42.6
IT	448.4	7.5	-21.7	-3.9	38.0	IT	438.0	7.3	-21.1	-2.3	38.8
Telecoms	82.9	3.1	-22.4	-22.5	10.5	Telecoms	87.7	2.9	-21.4	-20.8	11.5
Utilities	165.7	3.3	0.9	6.3	24.0	Utilities	172.3	2.8	2.8	11.0	24.3

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	2.74	2.79	1.51	1.61	2.04	US Treasuries 10Y/2Y	29	24	78	146	107
Germany	0.95	0.95	-0.18	-0.17	0.44	US Treasuries 10Y/5Y	3	-2	25	79	55
Japan	0.23	0.23	0.07	0.07	0.22	Bunds 10Y/2Y	61	60	46	49	85
UK	1.89	1.90	0.97	0.81	1.41	Bunds 10Y/5Y	29	29	28	38	58
Greece	3.48	3.71	1.32	0.87	6.41						
Ireland	1.55	1.54	0.25	0.21	1.64	Corporate Bond Spreads (in	Cumant	1	Year Start	One Year	10-year
Italy	2.87	2.99	1.17	0.93	2.29	bps)	Current	Last week	Year Start	Back	average
Spain	2.01	2.08	0.57	0.48	1.90	EM Inv. Grade (IG)	181	188	139	150	193
Portugal	2.06	2.12	0.46	0.48	2.80	EM High yield	693	726	618	498	624
						US IG	141	155	98	90	134
US Mortgage Market (1. Fixed-rate Mortgage)	Current	Last week	Year Start	One Year Back	10-year average	US High yield	419	491	310	330	453
30-Year FRM ¹ (%)	5.46	5.49	3.31	3.18	4.01	Euro area IG	164	165	98	86	119
vs 30Yr Treasury (bps)	245.9	247.3	138.9	88.0	129.9	Euro area High Yield	491	500	331	299	414

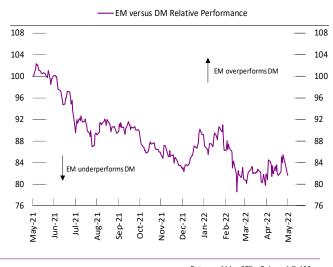
Foreign Exchange & Commodities

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	1.07	1.4	1.8	-12.2	-5.8	Agricultural	582	-0.1	1.3	33.5	30.8
EUR/CHF	1.02	-0.5	0.5	-6.4	-1.1	Energy	405	5.5	10.3	81.5	60.6
EUR/GBP	0.85	0.3	0.9	-1.3	1.1	West Texas Oil (\$/bbl)	115	1.6	12.8	72.1	53.0
EUR/JPY	136.15	0.7	0.9	1.7	4.0	Crude brent Oil (\$/bbl)	119	6.1	13.4	71.9	53.5
EUR/NOK	10.17	-1.2	3.2	0.0	1.4	HH Natural Gas (\$/mmbtu)	8.7	9.5	26.3	206.2	128.5
EUR/SEK	10.55	0.4	1.7	4.3	2.5	TTF Natural Gas (EUR/mwh)	87	-1.2	-19.1	244.8	23.5
EUR/AUD	1.50	-0.3	1.2	-4.9	-4.2	Industrial Metals	513	-0.5	-7.0	7.8	2.7
EUR/CAD	1.37	0.9	1.1	-7.3	-4.9	Precious Metals	2413	0.6	-2.1	-4.3	0.9
USD-based cross rates						Gold (\$)	1854	0.4	-1.7	-2.3	1.7
USD/CAD	1.28	-0.5	-0.7	5.6	1.0	Silver (\$)	22	1.7	-5.1	-20.8	-4.5
USD/AUD	1.40	-1.7	-0.6	8.4	1.7	Baltic Dry Index	2681	-19.8	10.6	-0.3	20.9
USD/JPY	127.13	-0.7	-0.9	15.9	10.4	Baltic Dirty Tanker Index	1128	1.5	-8.6	86.4	43.5

Source: NBG Research, Data as of May 27th, S&P/Goldman Sachs Indices for Agricultural, Energy, Industrial & Precious Metals, BofA/ML Indices for Corporate Bond Spreads, *Stock trading on MOEX Index partially resumed on March 24th after being halted since February 25th

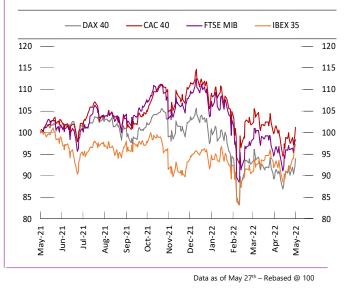
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EM vs DM Performance in \$

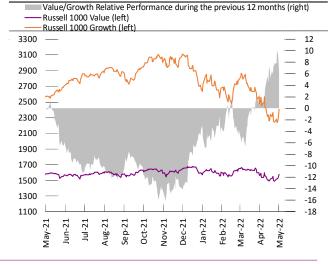


Data as of May 27th – Rebased @ 100









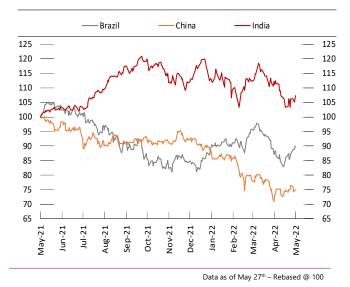
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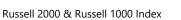
Equity Market Performance - G4

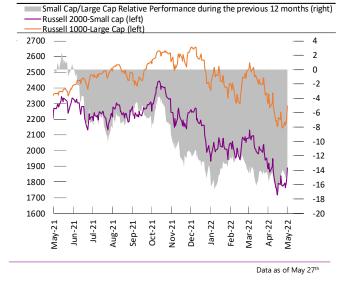


Data as of May 27th – Rebased @ 100

Equity Market Performance – Emerging Markets



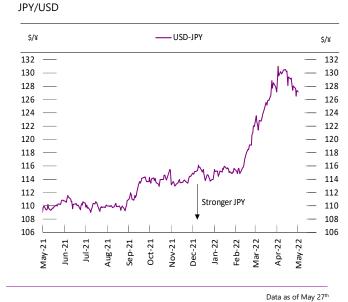




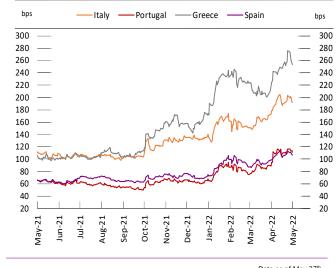






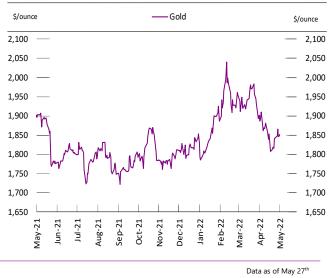


10- Year Government Bond Spreads









West Texas Intermediate (\$/brl)

Jul-21 Aug-21 Sep-21

-21

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10- Year Government Bond Yields

—US (LA) ——UK (LA) ——Japan (RA)

- Germany (RA)

Apr-22

Data as of May 27th LA:Left Axis RA:Right Axis

May-22

Mar-22

Feb-22

%

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

-0.8

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%

3.6

3.2

2.8

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2.0

1.6

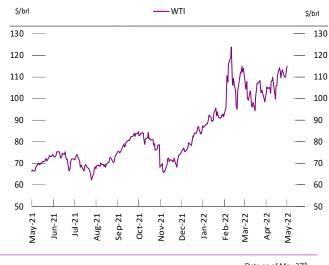
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May-21



Dec-21 Jan-22

Nov-21

Oct-21

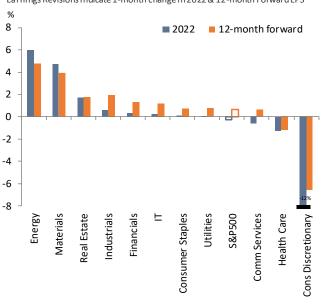
Data as of May 27^{th}

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US Sectors Valuation

		Price (\$)		EPS Gro	wth (%)	Dividend	Yield (%)		P/	'E Ratio		P/BV Ratio			
	27/5/22	% Weekly Change	%YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
S&P500	4158	6.6	-12.8	10.3	10.0	1.5	1.6	18.3	16.6	17.6	17.1	3.9	3.5	3.7	3.0
Energy	669	8.1	58.3	105.8	-11.7	2.8	2.8	10.4	11.7	10.9	15.7	2.5	2.3	2.4	1.7
Materials	548	5.9	-3.8	19.1	-5.6	1.9	2.0	14.3	15.1	14.6	16.1	3.0	2.7	2.9	2.7
Financials															
Diversified Financials	981	7.0	-10.4	-7.9	11.9	1.6	1.7	15.4	13.8	14.8	14.9	1.8	1.7	1.8	1.6
Banks	361	10.0	-13.6	-15.3	16.1	2.9	3.2	11.0	9.5	10.4	11.5	1.2	1.1	1.1	1.1
Insurance	571	7.1	3.7	-0.1	14.8	2.0	2.2	14.3	12.4	13.5	11.7	1.8	1.6	1.7	1.2
Real Estate	280	5.8	-13.7	11.8	5.6	2.9	3.0	20.3	19.2	19.8	18.8	3.6	3.7	3.6	3.3
Industrials															
Capital Goods	811	6.6	-8.9	22.1	17.8	1.8	1.9	19.0	16.1	17.8	17.2	4.3	3.8	4.1	4.0
Transportation	987	6.1	-12.4	123.5	26.8	1.8	1.9	16.7	13.2	N/A	13.9	5.5	4.5	5.1	4.1
Commercial Services	485	5.0	-10.7	10.4	11.0	1.2	1.3	26.1	23.5	25.0	21.5	5.9	5.2	5.6	4.0
Consumer Discretionary															
Retailing	3119	8.8	-26.2	-24.5	40.7	0.8	0.8	33.2	23.6	29.3	27.1	10.2	8.3	9.5	9.0
Consumer Services	1262	6.9	-16.4	3146.4	100.4	1.2	1.3	40.4	20.1	N/A	28.8	25.1	17.4	22.0	10.3
Consumer Durables	385	7.2	-27.8	20.2	8.5	1.6	1.7	11.3	10.4	11.0	17.5	2.9	2.5	2.8	3.4
Automobiles and parts	141	13.4	-29.3	28.3	19.2	0.2	0.2	28.7	24.1	N/A	15.2	5.3	4.5	5.0	2.7
IT															
Technology	2834	8.3	-17.0	9.1	7.4	0.9	0.9	21.1	19.7	20.6	15.4	14.4	12.5	13.6	6.5
Software & Services	3155	7.6	-19.0	13.9	15.4	0.9	1.0	26.1	22.7	24.7	21.3	8.0	6.8	7.5	6.2
Semiconductors	2037	8.8	-22.5	14.0	10.6	1.4	1.5	17.1	15.4	16.4	15.5	4.9	4.3	4.7	3.8
Communication Services	201	3.6	-24.9	-1.1	16.2	0.8	0.9	16.9	14.5	15.9	19.1	3.0	2.7	2.9	3.2
Media	771	3.4	-28.8	1.8	18.1	0.3	0.4	18.4	15.6	17.3	22.5	3.7	3.2	3.5	3.7
Consumer Staples															
Food & Staples Retailing	622	10.1	-11.3	5.9	8.2	1.6	1.7	20.9	19.3	20.3	18.3	4.5	4.1	4.4	3.6
Food Beverage & Tobacco	861	5.2	5.4	3.3	6.5	3.1	3.2	20.1	18.9	19.6	18.4	5.6	5.7	5.6	5.1
Household Goods	859	4.9	-12.1	2.0	9.5	2.3	2.4	25.6	23.4	24.7	21.3	10.5	10.2	10.4	6.7
Health Care															
Pharmaceuticals	1265	3.2	-2.6	6.2	-5.1	1.9	2.0	14.8	15.6	15.1	15.3	5.3	4.7	5.0	4.3
Healthcare Equipment	1835	3.2	-8.4	3.0	9.9	1.1	1.2	19.7	18.0	19.0	16.8	3.8	3.4	3.7	3.0
Utilities	381	5.0	4.7	1.6	8.1	2.8	3.0	21.8	20.2	21.2	17.2	2.3	2.2	2.3	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 from average.

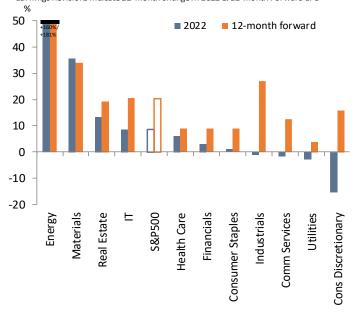


1-month revisions to 2022 & 12-month Forward EPS Earnings Revisions indicate 1-month change in 2022 & 12-month Forward EPS

Data as of May 27th 12-month forward EPS are 59% of 2022 EPS and 41% of 2023 EPS

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

Earnings Revisions indicate 12-month change in 2022 & 12-month Forward EPS



Data as of May 27th

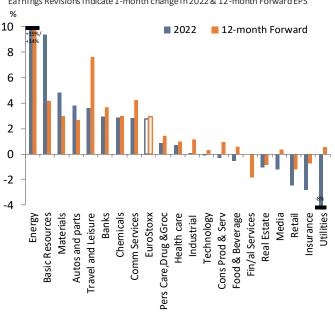
12-month forward EPS are 59% of 2022 EPS and 41% of 2023 EPS National Bank of Greece | Economic Research Division | Global Markets Analysis

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Euro Area Sectors Valuation

		Price (€)		EPS Gro	owth (%)	Dividend	Yield (%)		P/	E Ratio		P/BV Ratio			
	27/5/22	% Weekly Chan	ge %YTD	2022	2023	2022	2023	2022	2023	12m fwd	10Yr Avg	2022	2023	Current	10Yr Avg
EuroStoxx	425	3.6	-11.2	10.8	8.8	3.1	3.4	13.6	12.5	13.2	14.5	1.6	1.5	1.6	1.5
Energy	342	5.2	18.4	87.6	-19.5	4.4	4.6	6.3	7.8	6.9	13.1	1.3	1.2	1.3	1.2
Materials	1004	3.7	-3.7	6.1	-12.3	2.6	2.7	12.0	13.7	12.7	15.7	1.8	1.7	1.7	1.7
Basic Resources	257	6.6	3.6	2.9	-37.7	2.7	2.9	4.6	7.3	5.7	10.0	0.8	0.7	0.7	0.8
Chemicals	1448	3.2	-4.7	8.9	3.2	2.6	2.7	16.6	16.1	16.4	16.7	2.3	2.2	2.3	2.3
Financials															
Fin/al Services	521	0.9	-10.0	25.0	-9.7	3.0	3.1	11.4	12.7	11.9	14.6	1.3	1.3	1.3	1.2
Banks	92	5.8	-8.2	-2.9	10.7	5.9	6.9	8.0	7.3		9.9	0.6	0.6	0.6	0.7
Insurance	291	2.5	-5.0	-0.8	14.8	5.7	6.1	9.7	8.5	9.2	9.6	0.9	0.9	0.9	0.9
Real Estate	187	0.8	-16.3	6.8	6.8	4.7	5.6	14.4	13.5	14.0	17.1	0.7	0.7	0.7	1.0
Industrial	982	3.7	-16.2	19.5	15.7	2.3	2.7	17.7	15.3	16.7	17.3	2.6	2.4	2.5	2.6
Consumer Discretionary															
Media	251	-0.5	-12.0	10.6	15.5	2.5	2.8	20.2	17.5	19.1	17.4	2.7	2.5	2.6	2.2
Retail	487	7.5	-29.7	-4.2	11.6	4.3	4.7	20.4	18.2	19.5	26.2	3.8	3.7	3.8	5.7
Automobiles and parts	544	3.9	-13.8	0.6	5.5	5.9	5.8	5.8	5.5	5.7	8.6	0.8	0.7	0.8	1.0
Travel and Leisure	175	2.5	-9.4	N/A	81.8	1.1	1.8	28.0	15.4	N/A	N/A	2.2	2.1	2.1	2.2
Technology	746	4.6	-24.1	9.4	19.6	1.1	1.2	22.5	18.9	21.1	21.3	3.4	3.0	3.2	3.6
Communication Services	308	3.9	6.8	18.1	13.9	3.6	3.9	16.8	14.7	16.0	14.5	1.6	1.6	1.6	1.7
Consumer Staples															
Food, Beverage & Tobacco	172	2.6	-10.2	13.6	12.8	1.8	2.1	19.5	17.3	18.6	20.0	2.1	2.0	2.1	2.6
Personal Care, Drug & Grocery	174	1.5	-13.2	2.6	9.6	2.6	2.7	15.8	14.4	15.3	17.5	2.2	2.1	2.2	2.4
Consumer Products & Services	398	5.9	-24.5	9.4	14.4	1.8	2.0	25.4	22.2	24.2	24.5	5.3	4.7	5.1	4.0
Health care	886	1.9	-5.1	9.5	8.2	2.2	2.3	17.2	15.9	16.7	16.6	2.2	2.1	2.1	2.3
Utilities	378	0.1	-4.2	-35.4	65.4	4.2	4.7	21.6	13.0	18.1	13.7	1.6	1.5	1.5	1.2

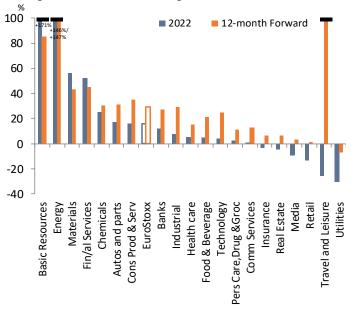
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Data as of May 27th

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