Global Markets Roundup



National Bank of Greece | Economic Research Division | March 28, 2023

Volatility will continue as global markets digest the stress in the banking sector (Silicon Valley Bank, Credit Suisse) and its economic implications

- As investors digest recent pockets of stress in the banking sector and continued monetary policy tightening, equity market conditions remain excessively volatile. So far this month, the S&P500 has been broadly flat and the Eurostoxx50 has declined by -1.5%, with pressure on bank stocks (see graph page 3). On the other hand, Technology and defensive sectors have overperformed.
- The MOVE index, which measures bond market volatility, hit the 200s, as markets have increasingly started to price in interest rate cuts over the next one to two years, particularly in the US. So far this month, US Treasury yields have declined with the curve bull-steepening (see graph below). On the other side of the Atlantic, government bond yields have decreased across the board, with euro area periphery bond spreads broadly unperturbed.
- High-yield corporate bond spreads have widened by circa 90 basis points month-to-date, due to increased risk aversion rose, as well as due to repercussions of the 100% write-down of the nominal value of all AT1 shares of Credit Suisse (see graph page 3).
- The Federal Reserve increased interest rates by +25 bps to a range of 4.75% 5.0%, with officials examining the option to remain on hold given recent concerns about the US banking sector, the cumulative tightening of 450 basis points in the past twelve months and bank stress leading to tighter lending standards and slower lending growth.
- Regarding macroeconomic projection, the Federal Reserve incorporated a high likelihood of the recent pockets of stress in the banking sector resulting in a tightening of credit conditions, in turn leading to downside effects on economic activity, employment, inflation and a more cautious path for the Federal funds rate (see Economics). The median of FOMC participants' assumptions points to FFR of 5.1% by end-2023 (unchanged compared with projections three months ago), suggesting one more hike of 25 bps following the one undertaken in the latest meeting.
- On a positive development, borrowing at the Fed's liquidity facilities was broadly stable in the week ending March 22nd suggesting that liquidity needs have not deteriorated further. The Fed has lent \$110 billion (\$153 billion on March 15th) in the primary lending program, where the Fed values securities collateral at fair value, with a variable cost broadly based on FFR. The decline was offset by increased borrowing at the newly announced Bank Term Funding Program (\$54 billion from \$12 billion on March 15th), where the Fed values securities collateral at nominal value, with a variable cost of 1-Year USD OIS plus 10 basis points, currently at 4.78%.
- Overall, Fed has circa \$354 billion in loans outstanding to depository institutions or 2% of total domestic deposits (see graph below) including \$180 billion in the FDIC-operated "bridge banks".
- The FDIC, on Sunday, entered into a purchase agreement with the First-Citizens Bank ("FCB"), for the latter to acquire all deposits and \$72 billion of loans at a discount of \$16.5 billion from the former Silicon Valley Bank ("SVB"). The bridge entity that the FDIC had established to facilitate the handling of the failed SVB, had \$119 billion in deposits and total assets of \$167 billion. The FDIC estimates the cost of the failure of Silicon Valley Bank to its Deposit Insurance Fund (with a balance of \$128 billion) to be approximately \$20 billion.

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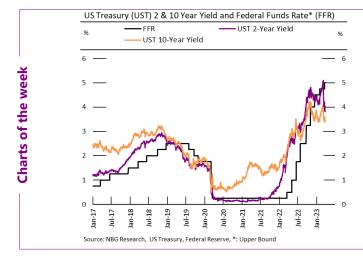
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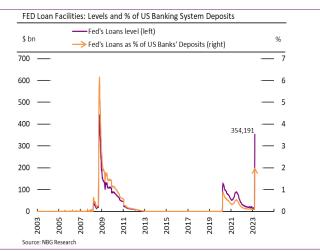
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Fed macroeconomic projections are surrounded by • Meanwhile, the National Association of Home Builders (NAHB) higher uncertainty than usual due to the recent bank stress

- The 19 participants in the Federal Open Market Committee (FOMC) lowered somewhat their anticipated trajectory for GDP growth compared with three months ago, on account, inter alia, of tighter credit conditions. The median estimate for 2023 GDP growth (Q4/Q4) was revised down by -0.1 pps to +0.4% yoy. Nevertheless, significant negative base effects were at play, as the Q4:22 yoy growth (+0.9%) exceeded by a wide margin the FOMC estimate back in December (for +0.5%). For Q4:24, the projection was revised down by -0.4 pps to +1.2% yoy, whereas for Q4:25, it was revised up by +0.1 pp to +1.9% yoy. "Nearly all" participants see the risks to GDP growth as weighted to the downside. On the labor market (which the Fed continues to characterize as "extremely tight"), the median FOMC projection was broadly unchanged, continuing to foresee a substantial rise in the unemployment rate (from 3.6% in February), to 4.5% on average in Q4:23, while a 4.6% is estimated for both Q4:24 and Q4:25 (the longer-run estimate was maintained at 4.0%).
- On inflation, the FOMC's outlook was roughly stable. Indeed, regarding the headline PCE inflation, only the median projection for 2023 (Q4 average) was revised, by +0.2 pps to +3.3% yoy in view of recent strength, while later on, it is still anticipated at +2.5% yoy in Q4:24 and +2.1% yoy in Q4:25, suggesting a return to the target of +2.0% yoy (which was also maintained as the FOMC's longer-run projection), no sooner than in 2026. Core PCE growth is anticipated at +3.6% yoy in Q4:23 (+0.1 pp versus December projections), at 2.6% in Q4:24 (instead of 2.5% yoy) and at 2.1% yoy in Q4:25 (unrevised). The macroeconomic outlook is conditioned on the Fed proceeding with a similar (compared with the one in December) path for the Federal Funds Rate (FFR). Indeed, the median of FOMC participants' respective assumptions, points to 5.1% by end-2023, suggesting one more hike of 25 bps following the one undertaken in the latest meeting to a target range of 4.75% - 5.0% (4.3% versus December's assumption for 4.1% for end-2023 and 3.1% in end-2025 as also assumed in December, while the longer-run estimate was maintained at 2.5%).

US housing market data improved, albeit challenges

- New residential construction improved in February. In the event, housing starts rose by +9.8% mom (-18.4% yoy) to 1450k (annualized rate), while building permits increased by +13.8% on a monthly basis (-17.9% yoy) at 1524k (annualized rate). Both outcomes came out well above consensus estimates (for 1310k & 1340k, respectively). Housing starts came out above a long-term (since 1990) average of 1321k, albeit it should be noted that the rise was driven mainly by the highly volatile multifamily (5 units or more) component (+24.1% mom), while also remaining -19.7% below a peak of 1805k in April 2022.
- · Regarding demand, existing home sales surprised to the upside in February, rising sharply by +14.5% mom (-22.6% yoy) after falling for twelve consecutive months up to January, to 4.58mn (annualized), overshooting by a wide margin consensus estimates for 4.19mn. Still, the latest reading is well below a long term (since 1990) average of 4.94mn (and -28.0% compared with a peak of 6.36mn in November 2021).

- survey index that captures homebuilders' confidence for new home sales – improved for a 3rd consecutive month in March 2023, by +2 pts to 44, albeit remaining subdued (a reading below 50 indicates a negative stance).
- Home prices posted signs of stabilization (at elevated levels) following a partial easing in recent months. In the event, the median existing home sales price rose by +0.5% mom in February, after falling for seven consecutive months since July 2022 (the annual pace of growth came out at -0.2%).
- In all, despite the aforementioned rise in sales, the environment for housing demand remains very challenging, amid still elevated valuations. Although nominal price levels for existing homes in February were -12% below a peak in June 2022, they are still higher by +36% compared with January 2020. At the same time, nominal personal incomes have risen by +18% for the same period (January 2020 to January 2023).
- Furthermore, the particularly low availability of existing homes for sale (the respective inventory stood at 0.98mn in February, versus an average of 2.25mn since 1990), supports the bargaining power of sellers. At the same time, although the latest rise in housing starts is a welcome development and a large number of new houses is in the pipeline (1.69mn in the phase of construction, versus an average of 0.94mn since 1990), arguing in favor of the prospects for new home supply, still high construction costs limit the downside as to the respective pricing in which they will enter the market. In the event, note that prices paid for goods used in residential construction rose for a 2nd consecutive month in February, +0.4% mom from +1.5% mom in January, following a decline of -5.0% cumulatively from June 2022 to December 2022. Recall that the latter represented only a very modest downward correction, given the acute rise which had preceded. Overall, in February, prices paid for goods used in residential construction were up by +36.8% versus January 2020.
- Finally, higher mortgage interest rates due to monetary policy tightening have limited the capacity of households to finance home purchases. Indeed, according to data from Freddie Mac, the 30-year fixed mortgage rate stood at 6.42% for the week ending on March 23rd. Although a stabilization has taken place recently from a peak of 7.08% in past November 2022, the latest outcome remains far above an average of 4.1% since 2010. In that context, mortgage applications remain depressed according to the Mortgage Bankers Association, at -64.2% compared with late-January 2022 for the week ending March 17th.



Equities

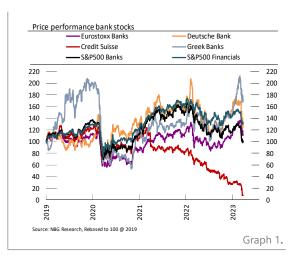
 Realized volatility in equity markets remains high, as investors weigh recent bank developments (Silicon Valley Bank, Credit Suisse), support measures from authorities and ongoing rate hikes by major central banks. In the US, the S&P500 ended the past week up by +1.4%, recouping earlier losses to turn flat on the month. The Automobiles and Components sector overperformed (+4.8% wow), while on the contrary, Banks declined by -1.2% wow, due to, inter alia, investors' concerns over a potential contagion stemming from the recent banking crisis. Notably, deposits at small U.S. banks fell by a steep 1.9% last week after the collapse of Silicon Valley Bank, with investors shifting much of the withdrawn savings to larger institutions perceived as safer. Nevertheless, the sector entered the current week on a positive note (+3.1% on Monday), with sentiment improving, following the announcement that the First Citizens Bank will acquire all deposits and loans of Silicon Valley bridge bank and about \$72 billion of its assets at a discount of \$16.5 billion. On the other side of the Atlantic, the EuroStoxx increased by +1% wow and by a further +0.9% on Monday, with Banks ending the week down by -1.1% wow (sizable losses on Friday, +1.7% on Monday).

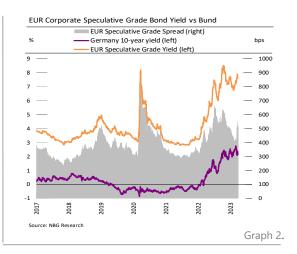


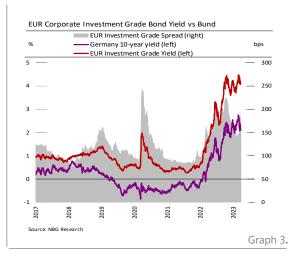
• Yields declined sharply following the Federal Reserve's meeting, albeit the trend reversed in the current week as concerns regarding the US banking sector subsided. The 2-Year US Treasury yield declined significantly, reaching a 6-month low (3.81%), recording its biggest 3-week decline in 35 years. The Fed rose its interest rates for a ninth time in a row, though Fed Chair, J. Powell commented a change to the Bank's guidance, from "ongoing hikes" to "some additional hikes maybe". However, the trend reversed on Monday and Tuesday, with short-term yields rising by +31 bps cumulatively to 4.12%. The 10-year yield ended the previous week flat, while rising in the start of the current week (+18 bps cumulatively on Monday and Tuesday). In the UK the 10-year yield rose by 5 bps to 3.26%, following the Bank of England's decision to raise its policy rate for an 11th consecutive time from 4% to 4.25%, its highest level in 14 years. In Germany, the 10-year yield rose by 3 bps to 2.10%, with periphery bond yield spreads narrowing in the previous week. Specifically, in Italy it narrowed by -4 bps to 186 bps, in Spain by -4 bps to 104 bps, while in Greece by -12 bps to 191 bps, with the Republic announcing on Tuesday the issuance of new 5-year government bond, which will be the second issuance during 2023, following the 10-year bond issued in January. Corporate bond spreads were mixed in the past week. Indeed, USD HY bond spreads ended the week up by +5 bps wow to 522 bps and their EUR counterparts by +1 bp wow to 523 bps. In the investment grade spectrum, USD IG bond spreads narrowed by 8 bps to 154 bps and their EUR counterparts by -6 bps wow to 181 bps.

FX and Commodities

• In foreign exchange markets, the euro rose by 1.1% wow to \$1.08 against the US dollar, while reaching \$1.09 on Thursday, recording its highest level since early February, as market expectations regarding policy rates (ECB, Fed) diverged, pricing in significant interest rate cuts in USD rates. In commodities, oil prices increased in the past week, supported by the ease of concerns regarding the recent bank developments that investors feared it could weigh on the global growth outlook (Brent: +2.8% wow to \$75/barrel | WTI: +3.8% wow to \$69.3/barrel). The build-up of US crude oil inventories (+1.1 million barrels for the week ending March 17th to 481 million barrels) and the US Energy Secretary J. Granholm's comments that it could take years to refill the US Strategic Petroleum Reserve had only temporary downward effects on prices.







Quote of the week: "The events of the last two weeks are likely to result in some tightening credit conditions for households and businesses and thereby weigh on demand on the labor market and on inflation. Such a tightening in financial conditions would work in the same direction as rate tightening...", Chair of the Federal Reserve, J.Powell, March 22nd 2023.



| 10-Yr Gov. Bond Yield (%) | March 24th | 3-month | 6-month | 12-month | Official Rate (%) | March 24th | 3-month | 6-month | 12-month |
|---------------------------|------------|---------|---------|----------|-------------------|------------|---------|---------|----------|
| Germany | 2.10 | 2.60 | 2.70 | 2.80 | Euro area | 3.00 | 3.00 | 3.25 | 3.25 |
| US | 3.38 | 4.00 | 4.10 | 4.10 | US | 5.00 | 5.00 | 5.00 | 5.00 |
| UK | 3.26 | 3.60 | 3.58 | 3.38 | UK | 4.25 | 4.25 | 4.40 | 4.35 |
| Japan | 0.29 | 0.47 | 0.71 | 0.70 | Japan | -0.10 | -0.10 | -0.10 | -0.10 |
| Currency | March 24th | 3-month | 6-month | 12-month | | March 24th | 3-month | 6-month | 12-month |
| EUR/USD | 1.08 | 1.05 | 1.08 | 1.10 | USD/JPY | 131 | 131 | 128 | 126 |
| EUR/GBP | 0.88 | 0.90 | 0.90 | 0.91 | GBP/USD | 1.22 | 1.17 | 1.20 | 1.20 |
| EUR/JPY | 141 | 138 | 138 | 138 | | | | | |

| United States | 2020a | Q1:21a | Q2:21a | Q3:21a | Q4:21a | 2021a | Q1:22a | Q2:22a | Q3:22a | Q4:22a | 2022a |
|--------------------------------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| Real GDP Growth (YoY) (1) | -2,8 | 1,2 | 12,5 | 5,0 | 5,7 | 5,9 | 3,7 | 1,8 | 1,9 | 1,0 | 2,1 |
| Real GDP Growth (QoQ saar) (2) | - | 6,3 | 7,0 | 2,7 | 7,0 | - | -1,6 | -0,6 | 3,2 | 2,9 | - |
| Private Consumption | -3,0 | 10,8 | 12,1 | 3,0 | 3,1 | 8,3 | 1,3 | 2,0 | 2,3 | 2,1 | 2,8 |
| Government Consumption | 2,6 | 6,5 | -3,0 | -0,2 | -1,0 | 0,6 | -2,3 | -1,6 | 3,7 | 3,7 | -0,6 |
| Investment | -2,3 | 9,7 | 5,8 | -1,1 | 0,6 | 7,4 | 4,8 | -5,0 | -3,5 | -6,7 | -0,3 |
| Residential | 7,2 | 11,6 | -4,9 | -5,8 | -1,1 | 10,7 | -3,1 | -17,8 | -27,1 | -26,7 | -10,7 |
| Non-residential | -4,9 | 8,9 | 9,9 | 0,6 | 1,1 | 6,4 | 7,9 | 0,1 | 6,2 | 0,7 | 3,6 |
| Inventories Contribution | -0,7 | -3,0 | -1,3 | 2,0 | 5,1 | 0,2 | 0,3 | -2,1 | -1,4 | 1,8 | 0,7 |
| Net Exports Contribution | -0,2 | -1,3 | -0,8 | -1,3 | -0,6 | -1,7 | -3,8 | 1,2 | 3,3 | 0,7 | -0,6 |
| Exports | -13,2 | 0,4 | 4,9 | -1,1 | 23,5 | 6,1 | -4,6 | 13,8 | 14,6 | -1,3 | 7,2 |
| Imports | -9,0 | 7,6 | 7,9 | 6,6 | 18,6 | 14,1 | 18,4 | 2,2 | -7,3 | -4,6 | 8,1 |
| Inflation (3) | 1,2 | 1,9 | 4,9 | 5,4 | 6,7 | 4,7 | 8,0 | 8,7 | 8,3 | 7,1 | 8,0 |
| Euro Area | 2020a | Q1:21a | Q2:21a | Q3:21a | Q4:21a | 2021a | Q1:22a | Q2:22a | Q3:22a | Q4:22a | 2022a |
| Real GDP Growth (YoY) | -6,3 | -0,8 | 14,2 | 4,0 | 4,8 | 5,3 | 5,5 | 4,4 | 2,4 | 1,8 | 3,5 |
| Real GDP Growth (QoQ saar) | - | -0,1 | 8,1 | 9,4 | 2,2 | - | 2,5 | 3,6 | 1,5 | -0,1 | - |
| Private Consumption | -7,8 | -7,6 | 13,8 | 18,8 | 1,1 | 3,7 | 0,4 | 4,3 | 3,7 | -3,4 | 4,3 |
| Government Consumption | 1,0 | -1,3 | 8,9 | 1,8 | 1,4 | 4,3 | 0,3 | -0,3 | -0,8 | 3,0 | 1,1 |
| Investment | -6,4 | -9,0 | 7,8 | -2,5 | 14,3 | 3,9 | -2,7 | 3,8 | 16,7 | -13,6 | 3,8 |
| Inventories Contribution | -0,3 | 2,6 | -2,4 | -0,2 | 3,0 | 0,2 | -1,3 | 0,6 | 0,8 | 0,3 | 0,3 |
| Net Exports Contribution | -0,5 | 3,7 | 0,1 | 0,4 | -4,4 | 1,3 | 4,2 | 0,0 | -4,4 | 4,0 | -0,1 |
| Exports | -9,2 | 4,9 | 10,9 | 7,1 | 10,7 | 10,5 | 5,8 | 7,1 | 7,0 | 0,3 | 7,2 |
| Imports | -8,7 | -2,9 | 12,0 | 6,8 | 22,8 | 8,3 | -2,5 | 7,9 | 17,8 | -7,4 | 8,0 |
| Inflation | 0,3 | 1,0 | 1,8 | 2,9 | 4.7 | 2.6 | 6.1 | 8,0 | 9,3 | 10,0 | 8,4 |

6-12-Month View & Key Factors for Global Markets US Euro Area Japan UK Higher equity risk premium (lower P/E ratio) relative to benchmark market (US) China's covid policy pivot could accelerate an export-led recovery JPY appreciation from ¥150 to ¥130, if Households' balance sheets are healthy (low debt, still elevated excess savings) Sentiment (e.g. AAII) and positioning indicators are low, despite the recent rally Higher equity risk premium (lower P/E ratio) relative to benchmark market (US) despite the recent rally of +20% since October 2022 lows Fiscal policy will remain supportive in 2023 (plus Significant exposure to commodities Undemanding valuations in relative terms relative to other regions Elevated domestic policy uncertainty **Equity Markets** The BOE is expected to continue increasing Peaking profit margins Peaking profit margins Recession risks remain considerable P/Es (Valuations) above long-term means, with EPS consensus expectations (\$228 for EPS) only slightly lower compared with end Q3 (-3%) JPY appreciation from #150 to #130, ir continues, could hurt exporters Signs of policy fatigue regarding structural reforms and fiscal discipline Yield-Curve Control twists, let alone a sustained shift in ultra-loose monetary policy, could hurt market benchmarks (but support Banks) China's covid policy pivot could accelerate an interest rates aggressively as inflation remains very high and labor market extremely tight Geopolitical uncertainty (Ukraine-Russia, natural gas) could re-intensify Neutral/Negative Neutral/Positive Neutral Neutral Valuations still appear excessive compared with + long-term fundamentals + ECB to start unwinding its government and corporate bond holdings (APP) in March 2023 ECB to continue with interest rate hikes in 2023 -Valuations appear somewhat rich despite the 237bps increase in 2022, with term-premium @ -0.5% (1% for 2000-2015) Sizeable fiscal deficits The range of Yield-Targeting of 10-Year JGB at around 0% could widen further (current: +/- 50 Inflation expectations could drift higher due to supply disruptions (persistent post Brexit, temporary due to China) The BOE is expected to continue increasing Fiscal deficits to remain sizeable in following bps) interest rates aggressively as inflation remains very high and labor market extremely tight BOE: active (sales) Quantitative Tightening Slowing economic growth post-Brexit years Underlying inflation pressures remain acute Safé-haven demand **Sovernment Bonds** ECB to continue with interest rate hixes in 2023 as core inflation pressures remain strong Fragile economic growth outlook due to the war in Ukraine ECB QE 'stock' effect, with government bond holdings of €4.2 trillion (32% of GDP) Sate-naven demand Monetary stance remains extremely dovish, despite the unexpected shift in YCC range in December 2022 QE "stock" effect, with government bond holdings of ¥556 trillion (100% of GDP) FED: passive (lower rollover) Quantitative Tightening Global search for yield by non-US investors (e.g. Japan, repatriation from EM Economies) could Safe-haven demand bid to support prices assuming geopolitical risks re-intensify The FED is likely close to be done with rates Slightly higher yields ▲ Slightly higher yields Slightly Higher yields Slightly Higher yields USD interest rate differential vs peers remain Valuations appear undemanding with REER below its 15-year average Sizeable Current account deficit ECB to continue with interest rate hikes in 2023 + Safe haven demand OSD Interest rate differential vs peers remain significant. Weak global economic growth Safe-haven demand status Global political uncertainty to decline The FED is close to be done, which reduces Lower geopolitical uncertainty (Ukraine-Russia, natural gas) is positive for EUR Global growth risks remain to the downside More balanced economic growth recovery (long-term) Higher core Inflation rates could accelerate the shift of monetary policy (less accommodative) Foreign Exchange potential USD upside Broadly Flat USD against G10 FX Broadly stable GBP



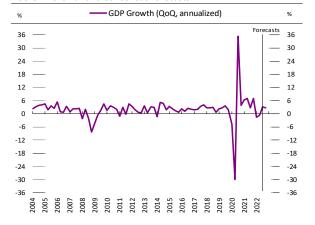
Economic Calendar

In the US, the main macro event next week is the final estimate of GDP for Q4:22, which is released on Thursday. GDP growth is expected to be unchanged compared with the previous estimate at +2.7% qoq saar. On Friday, February's personal income and consumption along with PCE data (the Fed's preferred measure for gauging inflation developments) for February will gather investors' attention.

In the Euro area, attention turns to inflation data for March. CPI is expected at 7.8% yoy from 8.5% in the previous month, while the core figure is expected at 5.5% yoy from 5.6%. On the same day, the unemployment rate for February is expected stable at 6.7%.

In China, PMI data for March will provide valuable insight regarding the current economic momentum.

US GDP Growth and Consensus Forecasts



Source: NBG Research

Economic News Calendar for the period: March 21 - April 03, 2023

| Tuesday 21 | | | | | Wednesday 22 | | | | | Thursday 23 | | | | |
|---|-----------------|----------------|-------|-------|--|-----------|--------|--------|----------|---------------------------------|----------|-------|---------------|--------|
| US | | S | Α | P | US | | S | Α | P | us | | S | Α | Р |
| Existing home sales (mn) | February | 4.2 + | 4.6 | 4.0 | Fed announces its intervention | March 22 | 5.00% | 5.00% | 4.75% | New home sales (k) | February | 640 | 640 | 633 |
| GERMANY | | | | | rate | | 3.0070 | 3.0070 | 1.7 5 70 | Initial Jobless Claims (k) | March 18 | 195 | + 191 | 192 |
| ZEW survey current situation | March | -45.0 - | | -45.1 | UK | | | | | Continuing Claims (k) | March 11 | 1690 | - 1694 | 1680 |
| ZEW survey expectations | March | 17.1 - | 13.0 | 28.1 | CPI (YoY) | February | 9.9% | 10.4% | | UK | | | | |
| | | | | | Core CPI (YoY) | February | 5.7% | 6.2% | 5.8% | BoE announces its intervention | March 23 | 4.25% | 4.25% | 4.00% |
| | | | | | | | | | | rate EURO AREA | | | | |
| | | | | | | | | | | | Manala | 10.4 | 19.2 | 10.1 |
| | | | | | | | | | | Consumer Confidence Indicator | March | -18.4 | 19.2 | -19.1 |
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| Friday 24 | | | | | | | | | | Monday 27 | | | | |
| US | | S | Α | P | EURO AREA | | S | Α | Р | EURO AREA | | S | Α | Р |
| S&P Global US Manufacturing | March | 47.3 + | 49.3 | 47.3 | S&P Global Eurozone | March | 49.0 | - 47.1 | 48.5 | M3 money supply (YoY) | February | 3.0% | - 2.9% | 3.5% |
| PMI | | | | | Manufacturing PMI | iviaicii | 49.0 | - 47.1 | 40.5 | GERMANY | | | | |
| Durable goods orders (MoM) | February | 0.5% - | -1.0% | -5.0% | S&P Global Eurozone Services | March | 52.5 | + 55.6 | 52.7 | IFO- Business Climate Indicator | March | | + 93.3 | 91.1 |
| Durable goods orders ex | February | 0.3% - | 0.0% | 0.4% | PMI | IVIGI CIT | ر.عد | | 34.1 | IFO- Current Assesment | March | | + 95.4 | 93.9 |
| transportation (MoM) | . co. dai y | 0.570 | 0.070 | 0.470 | S&P Global Eurozone Composite | March | 51.9 | + 54.1 | 52.0 | IFO-Expectations | March | 88.0 | + 91.2 | 88.4 |
| UK | | | | | PMI | | | | | 1 | | | | |
| S&P Global/CIPS UK PMI | March | 49.8 - | 48.0 | 49.3 | JAPAN | | | | | 1 | | | | |
| Manufacturing SA | | | | | PMI manufacturing | March | | 48.6 | 47.7 | 1 | | | | |
| S&P Global/CIPS UK Services PMI | March | 53.0 - | 52.8 | 53.5 | CPI (YoY) | February | | 3.3% | 4.3% | | | | | |
| | | 0.0% + | | 0.9% | Core CPI (YoY) - ex. Fresh Food Core CPI (YoY) - ex. Fresh Food | February | | 3.1% | 4.2% | | | | | |
| Retail sales Ex Auto MoM | February | 0.0% + | 1.5% | 0.9% | | February | | 3.5% | 3.2% | | | | | |
| | | | | | and Energy | - | | | | | | | | |
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| Tuesday 28 | | | | | Wednesday 29 | | | | | Thursday 30 | | | | |
| US | | S | Α | Р | US | | S | Α | P | us | | S | Α | Р |
| S&P Case/Shiller house price | | 2.70/ | | 4.00/ | Pending home sales (MoM) | February | | | 8.1% | GDP (QoQ, annualized) | Q4:22 | 2.7% | | 2.7% |
| index 20 (YoY) | January | 3.7% | | 4.6% | | , | | | | Initial Jobless Claims (k) | March 25 | | | 191 |
| Consumer Confidence Index | March | 101.0 | | 102.9 | | | | | | Continuing Claims (k) | March 18 | | | 1694 |
| | | | | | | | | | | EURO AREA | | | | |
| | | | | | | | | | | Business Climate Indicator | March | | | 0.72 |
| | | | | | | | | | | Economic Confidence | March | 100.0 | | 99.7 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| Friday 31 | | | | | | | | | | Monday 03 | | | | |
| Friday 31 US | | S | A | P | CHINA | | S | Α | P | US | | S | A | P |
| Personal income (MoM) | February | 0.3% | | 0.6% | Manufacturing PMI | March | 51.2 | | 52.6 | ISM Manufacturing | March | 47.5 | | 47.7 |
| Personal spending (MoM) | February | 0.3% | | 1.8% | JAPAN | IVIdICII | 31.2 | | 32.0 | Construction spending | February | -0.1% | | -0.1% |
| PCE (YoY) | February | 5.3% | | 5.4% | Unemployment rate | February | 2.5% | | 2.4% | JAPAN | rebluary | -0.1% | | -0.176 |
| PCE Core (YoY) | February | 4.4% | | 4.7% | Retail sales (MoM) | February | | | 1.9% | Tankan - large manufacturers | | | | |
| EURO AREA | . co. du. y | 7.770 | | 7.770 | Retail sales (YoY) | February | | | 5.0% | current index | Q1:23 | 5 | | 7 |
| CPI flash estimate (YoY) | March | 7.8% | | 8.5% | Industrial Production (MoM) | February | 0.6% | | -5.3% | Tankan - large manufacturers | | | | |
| CPI Core flash estimate (YoY) | March | 5.5% | | 5.6% | Industrial Production (YoY) | February | 2.070 | | -3.1% | outlook index | Q1:23 | | | 6 |
| Unemployment Rate | February | 6.7% | | 6.7% | | | | | 2 | CHINA | | | | |
| UK | , , , | | | | | | | | | Caixin PMI Manufacturing | March | 52.9 | | 51.6 |
| GDP (QoQ) | Q4:22 | 0.0% | | 0.0% | | | | | | | | | | |
| GDP (YoY) | Q4:22 | 0.4% | | 0.4% | | | | | | | | | | |
| GERMANY | | | | | | | | | | | | | | |
| Retail sales (MoM) | February | -0.1% | | -0.3% | | | | | | | | | | |
| Retail sales (YoY) | February | -5.2% | | -6.9% | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | _ | | | | |
| Source: NBG Research S: Consensus Analysts Survey, A: Actual | Outcome, P: Pri | revious Outcor | ne | | | | | | | | | | | |

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



| Developed N | 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 | 3971 | 1.4 | 3.4 | -12.1 | 2.1 | MSCI Emerging Markets | 58501 | 1.7 | 1.8 | -10.6 | -20.1 |
| Japan | NIKKEI 225 | 27385 | 0.2 | 4.9 | -2.6 | -3.6 | MSCI Asia | 903 | 1.9 | 3.1 | -8.8 | -21.3 |
| UK | FTSE 100 | 7405 | 1.0 | -0.6 | -0.8 | 10.3 | China | 66 | 2.9 | 2.7 | -8.4 | -37.7 |
| Euro area | EuroStoxx | 438 | 1.0 | 6.8 | 1.8 | 3.3 | Korea | 737 | 0.9 | 10.0 | -11.4 | -22.9 |
| Germany | DAX 40 | 14957 | 1.3 | 7.4 | 4.8 | 2.4 | MSCI Latin America | 84224 | -1.1 | -4.6 | -18.5 | -13.3 |
| France | CAC 40 | 7015 | 1.3 | 8.4 | 7.0 | 18.0 | Brazil | 263640 | -3.1 | -10.7 | -24.4 | -24.3 |
| Italy | FTSE/MIB | 25892 | 1.6 | 9.2 | 6.1 | 7.0 | Mexico | 49259 | 1.8 | 9.4 | -5.5 | 14.8 |
| Spain | IBEX-35 | 8793 | 0.8 | 6.8 | 5.9 | 4.1 | MSCI Europe | 2758 | -0.9 | -2.0 | 6.7 | -55.1 |
| Hong Kong | Hang Seng | 19916 | 2.0 | 0.7 | -9.3 | -28.7 | Russia | 2392 | 3.0 | 11.0 | -7.3 | -31.4 |
| Greece | ASE | 1021 | 0.1 | 9.8 | 21.1 | 22.0 | Turkey | 5120638 | -1.7 | -4.9 | 105.7 | 242.7 |

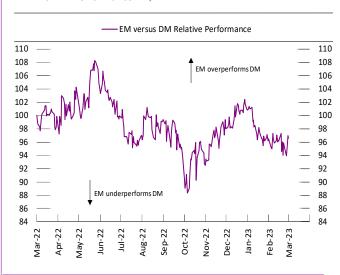
| in US Dollar terms | Current Level | 1-week change (%) | Year-to-Date change (%) | 1-Year change (%) | 2-year change (%) | Investment Styles | Current Level | 1-week change (%) | Year-to-Date change (%) | 1-Year change (%) | 2-year change (%) |
|-------------------------------|------------------|----------------------|-------------------------|----------------------|----------------------|-------------------|------------------|----------------------|-------------------------|----------------------|----------------------|
| Energy | 222.2 | 1.7 | -9.7 | -2.0 | 41.6 | Growth | 3765.1 | 1.8 | 11.0 | -13.0 | -4.5 |
| Materials | 311.9 | 1.6 | 0.4 | -14.4 | -5.0 | Value | 2993.1 | 0.9 | -3.5 | -10.7 | -2.2 |
| Industrials | 306.2 | 8.0 | 2.3 | -6.8 | -3.9 | Large Cap | 1689.4 | 1.5 | 4.1 | -11.0 | -1.0 |
| Consumer Discretionary | 321.4 | 1.1 | 10.4 | -17.7 | -15.6 | Small Cap | 464.2 | 0.7 | -0.1 | -14.1 | -14.3 |
| Consumer Staples | 271.2 | 2.0 | 0.5 | -1.9 | 4.9 | US Growth | 2504.7 | 1.9 | 6.1 | -18.6 | -2.5 |
| Healthcare | 330.3 | 1.7 | -4.3 | -6.0 | 7.0 | US Value | 1442.2 | 8.0 | 0.5 | -5.9 | 5.4 |
| Financials | 123.0 | 0.6 | -6.0 | -16.7 | -7.6 | US Large Cap | 2174.1 | 1.3 | 3.2 | -12.9 | -0.7 |
| IT | 459.0 | 1.8 | 16.7 | -10.5 | 4.6 | US Small Cap | 1734.9 | 0.5 | -1.5 | -16.4 | -18.7 |
| Telecoms | 77.2 | 2.9 | 15.9 | -19.4 | -22.7 | US Banks | 273.2 | -1.2 | -16.7 | -31.9 | -27.5 |
| Utilities | 147.1 | -0.4 | -3.7 | -7.7 | -2.4 | EA Banks | 95.9 | -1.1 | 0.1 | 6.4 | 9.5 |
| Real Estate | 188.5 | -1.5 | -4.0 | -23.3 | -15.3 | Greek Banks | 736.2 | 0.0 | 14.9 | 21.7 | 40.3 |

| 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 | 3.38 | 3.39 | 3.88 | 2.34 | 2.19 | US Treasuries 10Y/2Y | -43 | -51 | -58 | 20 | 91 |
| Germany | 2.10 | 2.07 | 2.53 | 0.52 | 0.47 | US Treasuries 10Y/5Y | -3 | -7 | -13 | -3 | 45 |
| Japan | 0.29 | 0.30 | 0.42 | 0.23 | 0.19 | Bunds 10Y/2Y | -26 | -32 | -16 | 75 | 75 |
| UK | 3.26 | 3.21 | 3.66 | 1.65 | 1.52 | Bunds 10Y/5Y | 3 | -2 | 0 | 26 | 51 |
| Greece | 4.03 | 4.12 | 4.59 | 2.79 | 5.22 | | | | | | |
| Ireland | 2.54 | 2.58 | 3.06 | 1.09 | 1.17 | Corporate Bond Spreads | Current | Last week | Year Start | One Year | 10-year |
| Italy | 4.00 | 4.00 | 4.64 | 2.04 | 2.19 | (in bps) | Current | Last week | rear Start | Back | average |
| Spain | 3.17 | 3.19 | 3.61 | 1.40 | 1.67 | US IG | 154 | 162 | 138 | 132 | 132 |
| Portugal | 2.99 | 3.02 | 3.57 | 1.29 | 2.35 | US High yield | 522 | 517 | 481 | 367 | 447 |
| EM | 4.83 | 4.88 | 5.04 | 4.53 | 0.00 | Euro area IG | 181 | 187 | 167 | 143 | 120 |
| | | | | | | Euro area High Yield | 523 | 522 | 498 | 424 | 404 |
| HC Mantagas Manhat | Current | Last week | Year Start | One Year | 10-year | EM | 320 | 319 | 295 | 370 | 145 |
| US Mortgage Market | Current | Last week | rear Start | Back | average | | | | | | |
| 30-Year FRM ¹ (%) | 6.48 | 6.71 | 6.42 | 4.50 | 4.22 | | | | | | |
| vs 30Yr Treasury (bps) | 287.6 | 305.9 | 240.1 | 197.3 | 144.6 | | | | | | |

| 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 | 1.08 | 1.1 | 1.3 | -2.2 | 0.8 | Agricultural | 445 | -0.5 | -4.8 | -19.9 | -5.4 |
| EUR/CHF | 0.99 | -0.1 | 0.0 | -3.6 | 0.1 | Energy | 243 | 2.2 | -5.7 | -36.6 | -15.6 |
| EUR/GBP | 0.88 | 0.4 | -0.1 | 5.4 | -0.8 | West Texas Oil (\$/bbl) | 69 | 3.8 | -6.3 | -38.3 | -13.7 |
| EUR/JPY | 140.60 | 0.0 | -1.7 | 4.6 | -0.2 | Crude brent Oil (\$/bbl) | 75 | 2.8 | -7.0 | -37.0 | -12.7 |
| EUR/NOK | 11.29 | -0.9 | 2.9 | 18.6 | 7.4 | HH Natural Gas (\$/mmbtu) | 2.2 | -11.0 | 4.1 | -58.5 | -38.8 |
| EUR/SEK | 11.22 | 0.4 | 1.6 | 8.5 | 0.9 | TTF Natural Gas (EUR/mwh) | 41 | -4.1 | -18.7 | -63.2 | -46.2 |
| EUR/AUD | 1.62 | 1.7 | 3.9 | 10.4 | 2.9 | Industrial Metals | 445 | 2.8 | -3.7 | -25.9 | -1.3 |
| EUR/CAD | 1.48 | 1.2 | 2.9 | 7.3 | 2.4 | Precious Metals | 2596 | 0.9 | 8.5 | 0.5 | 8.3 |
| USD-based cross rates | | | | | | Gold (\$) | 1978 | -0.5 | 8.4 | 1.1 | 8.4 |
| USD/CAD | 1.38 | 0.1 | 1.6 | 9.8 | 1.6 | Silver (\$) | 23 | 2.7 | 7.9 | -9.0 | -3.1 |
| USD/AUD | 1.51 | 0.6 | 2.6 | 12.9 | 2.1 | Baltic Dry Index | 1489 | -3.0 | 120.9 | -42.0 | -1.7 |
| USD/JPY | 130.64 | -1.1 | -3.0 | 7.0 | -1.0 | Baltic Dirty Tanker Index | 1622 | 2.7 | 24.4 | 48.4 | -13.4 |







Data as of March 24th - Rebased @ 100

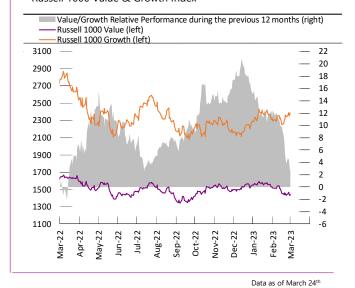
Equity Market Performance

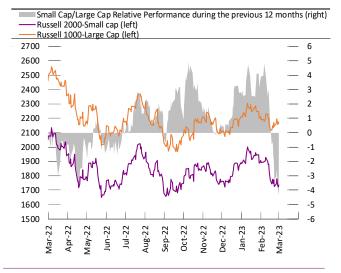
Russell 2000 & Russell 1000 Index



Data as of March 24th - Rebased @ 100

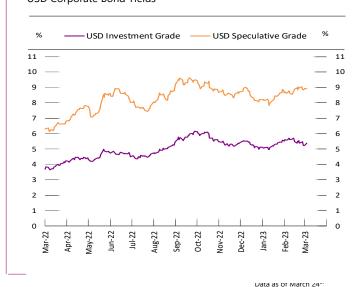
Russell 1000 Value & Growth Index



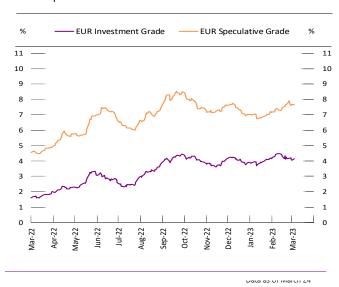


Data as of March 24th

USD Corporate Bond Yields

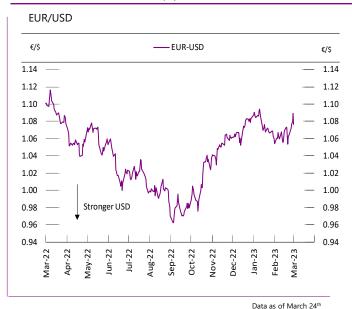


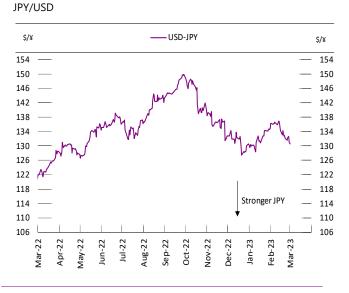
EUR Corporate Bond Yields



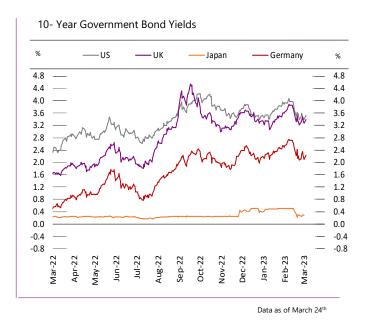
National Bank of Greece | Economic Research Division | Global Markets Analysis

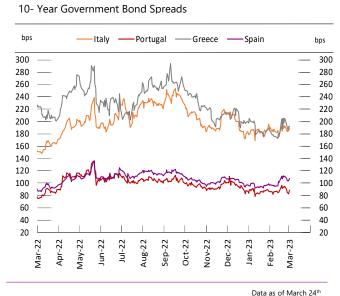




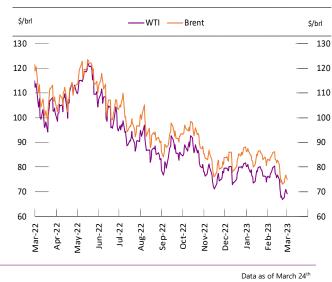


Data as of March 24th





West Texas Intermediate and Brent (\$/brl)



\$/ounce ——Gold \$/ounce 2,100 2,100 2,050 2,050 2,000 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 1,600 1,600 1,550 1,550 Apr-22 Jul-22 Jan-23 Feb-23 May-22 Jun-22 Aug-22 Oct-22 Nov-22 Dec-22 Mar-22 Mar-23

Gold (\$/ounce)

Data as of March 24th



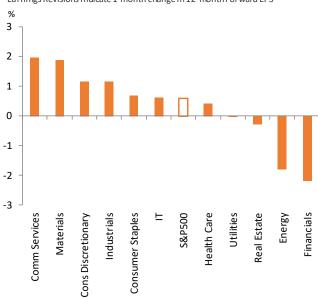
US Sectors Valuation

| | | Price (\$) | | EPS Gro | wth (%) | Dividend | Yield (%) | | P/ | E Ratio | | | P/BV R | atio | |
|-------------------------------|---------|-----------------|-------|---------|---------|----------|-----------|------|------|---------|----------|-------|--------|---------|----------|
| | 24/3/23 | % Weekly Change | %YTD | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 12m fwd | 20Yr Avg | 2022 | 2023 | Current | 20Yr Avg |
| S&P500 | 3971 | 1.4 | 3.4 | 4.8 | 2.2 | 1.7 | 1.7 | 18.4 | 18.0 | 17.5 | 15.7 | 3.9 | 3.6 | 3.9 | 2.9 |
| Energy | 598 | 2.3 | -11.1 | 154.5 | -18.1 | 3.4 | 3.4 | 8.1 | 9.3 | 9.4 | 15.2 | 2.3 | 2.0 | 2.2 | 2.0 |
| Materials | 484 | 2.1 | -1.1 | 5.3 | -15.9 | 2.2 | 2.2 | 14.6 | 16.4 | 16.1 | 15.2 | 2.9 | 2.6 | 2.9 | 2.8 |
| Financials | | | | | | | | | | | | | | | |
| Diversified Financials | 913 | 1.0 | -4.6 | -9.4 | 6.6 | 1.3 | 1.5 | 19.0 | 16.4 | 16.0 | 16.0 | 2.7 | 2.3 | 2.6 | 2.3 |
| Banks | 273 | -1.2 | -16.7 | -20.7 | 9.4 | 3.0 | 4.1 | 11.2 | 8.0 | 7.8 | 11.9 | 1.2 | 0.9 | 1.1 | 1.3 |
| Insurance | 541 | 1.8 | -9.1 | -13.1 | 28.9 | 1.7 | 2.2 | 17.2 | 12.1 | 11.7 | 11.1 | 2.2 | 1.8 | | 1.4 |
| Real Estate | 224 | -1.2 | -3.8 | 12.4 | -0.1 | 3.8 | 4.0 | 18.1 | 16.9 | 16.7 | 18.8 | 2.6 | 2.7 | 2.7 | 2.7 |
| Industrials | | | | | | | | | | | | | | | |
| Capital Goods | 860 | 1.2 | -1.5 | 13.1 | 14.4 | 1.7 | 1.8 | 22.7 | 19.1 | 18.5 | 16.1 | 5.0 | 4.3 | 4.8 | 3.6 |
| Transportation | 896 | -1.3 | -1.1 | 123.7 | 9.7 | 1.9 | 2.3 | 16.0 | 13.8 | N/A | 15.1 | 5.5 | 4.3 | | 3.7 |
| Commercial Services | 482 | 1.0 | -0.8 | 13.6 | 6.4 | 1.5 | 1.6 | 27.7 | 26.2 | 25.5 | 21.7 | 7.5 | 6.7 | | 4.7 |
| Consumer Discretionary | | | | | | | | | | | | | | | |
| Retailing | 2847 | -1.1 | 3.4 | -43.4 | 44.9 | 0.8 | 0.9 | 43.0 | 29.3 | 28.0 | 22.6 | 10.7 | 8.9 | 10.3 | 8.0 |
| Consumer Services | 1360 | 0.6 | 7.1 | N/A | 174.8 | 1.1 | 1.3 | 69.6 | 24.9 | N/A | 27.0 | 456.7 | 607.0 | N/A | 13.2 |
| Consumer Durables | 385 | 0.0 | 3.9 | 3.7 | -19.4 | 1.7 | 1.7 | 13.0 | 16.2 | 15.8 | 16.1 | 3.2 | 3.0 | 3.2 | 3.2 |
| Automobiles and parts | 110 | 4.8 | 40.4 | 28.6 | -8.9 | 0.3 | 0.4 | 24.2 | 24.6 | N/A | 11.0 | 4.7 | 3.9 | 4.5 | 2.8 |
| IT | | | | | | | | | | | | | | | |
| Technology | 3005 | 3.0 | 19.4 | 5.0 | 0.6 | 0.9 | 0.9 | 21.8 | 23.2 | 22.6 | 16.0 | 15.8 | 14.7 | 15.5 | 5.4 |
| Software & Services | 3148 | 1.4 | 10.7 | 10.9 | 7.9 | 1.0 | 1.0 | 25.9 | 25.5 | 24.8 | 18.4 | 8.7 | 7.8 | 8.5 | 6.2 |
| Semiconductors | 2178 | 1.8 | 31.2 | -5.7 | -14.0 | 1.4 | 1.4 | 20.2 | 25.6 | 24.4 | 18.4 | 5.1 | 5.4 | | 3.8 |
| Communication Services | 189 | 3.4 | 18.4 | -20.4 | 16.5 | 1.0 | 0.9 | 18.1 | 16.9 | 16.3 | 17.6 | 2.9 | 2.9 | 2.9 | 2.8 |
| Media | 742 | 3.6 | 22.4 | -22.8 | 20.2 | 0.3 | 0.3 | 20.9 | 19.3 | 18.5 | 21.6 | 3.3 | 3.3 | 3.3 | 3.2 |
| Consumer Staples | | | | | | | | | | | | | | | |
| Food & Staples Retailing | 635 | 1.1 | 2.4 | -3.5 | 4.0 | 1.5 | 1.6 | 21.9 | 21.2 | 20.7 | 17.3 | 5.3 | 4.8 | 5.1 | 3.7 |
| Food Beverage & Tobacco | 829 | 1.1 | -3.9 | 6.0 | 2.4 | 3.1 | 3.3 | 18.6 | 18.2 | 18.0 | 16.9 | 5.2 | 4.8 | 5.1 | 4.7 |
| Household Goods | 840 | 2.6 | -2.8 | -3.4 | 4.2 | 2.5 | 2.5 | 25.2 | 25.3 | 24.7 | 19.6 | 9.6 | 9.7 | 9.7 | 6.1 |
| Health Care | | | | | | | | | | | | | | | |
| Pharmaceuticals | 1209 | 1.7 | -6.6 | 5.5 | -16.3 | 2.0 | 2.1 | 14.1 | 17.0 | 16.7 | 14.6 | 5.3 | 4.9 | 5.2 | 4.2 |
| Healthcare Equipment | 1737 | 1.2 | -6.0 | 4.3 | 3.0 | 1.2 | 1.3 | 18.7 | 17.9 | 17.5 | 15.8 | 3.9 | 3.5 | 3.8 | 3.2 |
| Utilities | 334 | -1.2 | -6.9 | 1.2 | 6.8 | 3.2 | 3.3 | 18.5 | 17.6 | 17.3 | 15.3 | 1.9 | 1.9 | 1.9 | 1.7 |

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

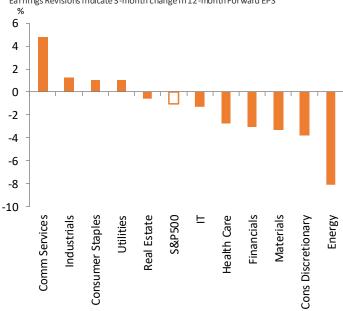
1-month revisions to 12-month Forward EPS

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



3-month revisions to 12-month Forward EPS

 ${\sf Earnings\,Revisions\,indicate\,3-month\,change\,in\,12-month\,Forward\,EPS}$





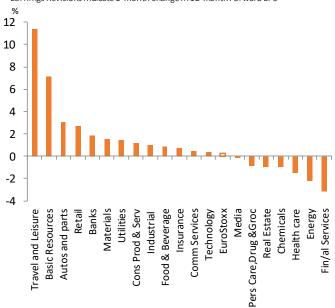
Euro Area Sectors Valuation

| | | Price (€) | | EPS Gro | wth (%) | Dividend | Yield (%) | | P/ | E Ratio | | | P/E | BV Ratio | |
|-------------------------------|---------|----------------|---------|---------|---------|----------|-----------|------|------|---------|----------|------|------|----------|----------|
| | 24/3/23 | % Weekly Chang | ge %YTD | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 12m fwd | 20Yr Avg | 2022 | 2023 | Current | 20Yr Avg |
| EuroStoxx | 438 | 1.0 | 6.8 | 15.6 | 3.8 | 3.1 | 3.4 | 14.0 | 12.9 | 12.7 | 13.2 | 1.8 | 1.6 | 1.7 | 1.6 |
| Energy | 315 | -0.9 | -9.2 | 121.8 | -20.4 | 5.6 | 5.6 | 5.2 | 5.9 | 6.0 | 11.2 | 1.3 | 1.0 | 1.2 | 1.6 |
| Materials | 944 | 1.1 | 2.4 | 13.5 | -34.7 | 3.8 | 3.7 | 8.9 | 12.9 | 12.5 | 13.4 | 1.4 | 1.2 | 1.3 | 1.6 |
| Basic Resources | 217 | 1.5 | -3.2 | -11.2 | -47.9 | 2.9 | 3.3 | 5.0 | 8.6 | 8.3 | 10.6 | 8.0 | 0.6 | 0.7 | 0.9 |
| Chemicals | 1386 | 1.0 | 3.4 | 28.7 | -27.2 | 4.0 | 3.7 | 11.1 | 14.7 | 14.3 | 14.2 | 1.7 | 1.6 | 1.7 | 2.1 |
| Financials | | | | | | | | | | | | | | | |
| Banks | 96 | -1.1 | 0.1 | 18.4 | 9.2 | 5.3 | 7.5 | 8.6 | 6.4 | | 10.0 | 8.0 | 0.6 | 0.7 | 1.0 |
| Insurance | 304 | 2.7 | -1.2 | -17.3 | 41.5 | 5.2 | 6.0 | 13.3 | 8.6 | 8.5 | 9.5 | 1.5 | 1.3 | | 1.1 |
| Financial Services | 512 | 2.7 | 5.1 | 31.5 | -4.0 | 3.1 | 3.4 | 11.3 | 11.6 | | 15.6 | 1.3 | 1.4 | 1.3 | 1.3 |
| Real Estate | 114 | -7.8 | -13.2 | 4.9 | -1.9 | 5.7 | 7.4 | 11.3 | 9.1 | | 16.3 | 0.6 | 0.5 | | 1.0 |
| Industrials | | | | | | | | | | | | | | | |
| Industrial Goods & Services | 1039 | 0.8 | 8.0 | 18.4 | 12.1 | 2.2 | 2.5 | 19.5 | 16.8 | 16.3 | 15.2 | 2.8 | 2.5 | 2.7 | 2.4 |
| Construction & Materials | 507 | -2.0 | 9.7 | 3.1 | -3.4 | 3.4 | 3.7 | 12.6 | 12.3 | 12.0 | 13.5 | 1.7 | 1.5 | 1.7 | 1.6 |
| Consumer Discretionary | | | | | | | | | | | | | | | |
| Retail | 579 | 1.2 | 13.0 | 2.5 | 10.0 | 3.7 | 4.3 | 23.1 | 20.5 | 20.2 | 22.5 | 4.7 | 4.4 | 4.7 | 5.6 |
| Automobiles and parts | 573 | 0.4 | 13.1 | 9.4 | -14.4 | 4.9 | 4.9 | 5.9 | 6.6 | 6.5 | 8.5 | 0.9 | 0.9 | 0.9 | 1.1 |
| Travel and Leisure | 212 | 1.2 | 15.9 | N/A | 21.8 | 1.0 | 1.4 | 19.1 | 15.6 | N/A | N/A | 2.7 | 2.3 | 2.6 | 2.0 |
| Consumer Products & Services | 503 | 3.5 | 17.8 | 1.8 | 12.7 | 1.4 | 1.5 | 33.6 | 30.7 | | 21.0 | 6.8 | 6.3 | 6.7 | 3.7 |
| Media | 285 | 1.1 | 9.5 | 21.4 | 14.0 | 2.2 | 2.4 | 22.5 | 19.4 | 19.0 | 15.5 | 3.0 | 3.0 | | 2.0 |
| Technology | 839 | 1.2 | 17.5 | -3.5 | 23.2 | 1.0 | 1.1 | 28.1 | 23.2 | 22.3 | 21.3 | 3.9 | 3.8 | 3.9 | 3.6 |
| Consumer Staples | | | | | | | | | | | | | | | |
| Food, Beverage & Tobacco | 178 | 2.1 | 7.9 | 11.7 | 7.3 | 1.8 | 2.1 | 20.2 | 19.2 | 18.7 | 17.5 | 2.2 | 2.1 | 2.1 | 2.5 |
| Personal Care, Drug & Grocery | 179 | 1.4 | 7.4 | 6.6 | 2.3 | 2.4 | 2.5 | 16.1 | 15.5 | 15.2 | 16.2 | 2.3 | 2.2 | 2.3 | 2.6 |
| Health care | 802 | 2.1 | 3.1 | 6.5 | -0.7 | 2.4 | 2.5 | 16.0 | 16.2 | 15.7 | 15.0 | 2.0 | 1.9 | 2.0 | 2.2 |
| Communication Services | 294 | 1.0 | 12.3 | 27.1 | -0.5 | 3.8 | 4.0 | 15.3 | 15.4 | 15.0 | 13.8 | 1.6 | 1.5 | 1.6 | 2.0 |
| Utilities | 357 | 1.1 | 2.1 | -58.2 | 157.2 | 4.6 | 4.8 | 32.3 | 12.5 | 12.3 | 13.4 | 1.7 | 1.6 | 1.7 | 1.5 |

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

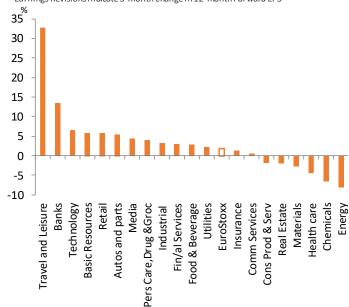
1-month revisions to 12-month Forward EPS

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



3-month revisions to 12-month Forward EPS

Earnings Revisions indicate 3-month change in 12-month Forward EPS



Data as of March 24th



DISCLOSURES:

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