# Fed is taking elevator up, S\&P EPS will take stairs down 



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As the Fed uses the elevator to lift rates, S\&P EPS will likely take the stairs down The Fed usually hikes rates with a staircase like climb by 25bp per meeting for a year or more, but usually cuts them in larger sizes like an elevator going down. Yet this time, the Fed is using the elevator to lift rates quickly to fight the highest inflation in four decades. Rates on a quick elevator up, means the economy and profits likely take the stairs down. Inflation hasn't yet peaked, thus neither has clarity on future hike sizes nor the top-floor. S\&P EPS cuts are starting, which we expect to continue in staircase like fashion downward for the rest of this year. We expect a small recession in 4Q22-1Q23 and unemployment to climb to $4.2 \%$ from $3.6 \%$. Bottom-up consensus 2023E S\&P EPS will likely be cut from $\$ 250$ to $\$ 230-235$ by early 2023 or less if oil is below $\$ 100 / b b l$ and Euro stays near $\$ 1.00$.
S\&P EPS falls $20 \%$ from 4-qtr high to low on average in recessions since 1950
Since 1950, S\&P EPS declined by $21 \%$ on average in recessions as measured from peak to trough trailing 4-qtr EPS. In shallow and short recessions like 1960 and 1970, S\&P EPS declined 10-15\%. During the long and severe recession of the financial crisis, S\&P EPS fell $45 \%$ from 4 -qtr peak to trough. As discussed in prior notes, we expect the next recession to be mild and without deflation (rather just disinflation). A mild recession with disinflation from high levels, suggests a smaller than usual recessionary hit to S\&P EPS, perhaps like 1980, if 1982 doesn't follow. But we also acknowledge risks from S\&P profits and margins surging to record highs since late last year, led by digital firms and consumer goods producers/ retailers. Thus, there could be closer to usual recessionary set-backs at Materials, Retailers, Consumer and Capital Goods. While we see the pandemic profit surge at digital firms as lasting, a mild recession and strong dollar will stall their profit growth. We expect growth at Health Care and at still recovering Consumer Services and Aerospace \& Defense. These segments should help contain a 4-qtr S\&P EPS decline to well less than $10 \%$ if the recession stays mild. Quarterly S\&P EPS has been flattish at about $\$ 55$ for the last several quarters or $\$ 220$ annualized. Thus, perhaps a \$210-220 4-qtr trough next four quarters (scenarios inside), if credit costs don't surge and commodity prices don't collapse.
DWS profit indicator is turning down, suggests S\&P EPS turns down sequentially Quarterly S\&P EPS y/y growth rates and many DWS profit indicator elements have been distorted by the sharp swings of the pandemic; first diving then surging in recovery. But sequential quarterly S\&P EPS growth already slowed sharply since late last year; quarterly S\&P EPS was \$54-55 since 3Q21 and likely 2Q21. But now, our profit indicator suggests profits will decline sequentially in 3Q. The profit indicator suggests a slight sequential downturn as of now, but recent data elements suggest an accelerating deteriorating trend. Also, FX is a headwind not incorporated in our profit indicator. See exhibits pages 6-14, these include our profit indicator and other economic reports we are closely monitoring.

## Our sector strategy: Tilts toward Health Care, Utilities, Banks, Aerospace

Our most favored sector remains Health Care (since year start). We see Pharma and Biotech as plays on impressive R\&D investment and innovation in medicine. If the 2020's turnout to be another great decade for stocks, HC likely plays a big part. We OW Utilities given upside risks on natural gas and electricity prices. We think Utilities are an attractive bond substitute with inflation protection, thus attractive non-cyclical real EPS and dividend yields. We expect its share of total energy production and distribution to rise with electric vehicles. We don't expect Russian natural gas to be shut off this winter, but intermittent disruptions or slow-flow possible if fighting intensifies in Ukraine or with ceasefire/territorial negotiations. Natural gas will be an essential commodity this winter and likely this decade. We are most cautious on Autos, Materials, Retailing, and cyclical parts of Industrials and Tech, including Machinery and Semiconductors. Our preferred cyclical sector is Financials/ Banks. We don't expect a financial crisis or surge in credit costs. We are equal-weight Energy. It helps protect against intermediate term risks, but faces long term challenges.

## Downside risks increasing around our 2022 yearend S\&P target of 4100

We're concerned about 1 H challenges of conflict, broadening inflation, Fed hiking and slowing growth persisting in 2 H and that the lame duck session of Congress might attempt to pass some anti supply-side, investor unfriendly legislation. Global, European and US policy risks remain high. The S\&P is likely to stay mostly between 3700-4100 for the rest of the year and early next with risk of materially breaking that range more to the downside.
Contributor: Ju Wang, Portfolio Manager Equity
Global Equity Index Forecasts: 12-months

| Index | $\begin{aligned} & \text { Jun } \\ & \text { 2023F } \end{aligned}$ | NTM EPS Growth | Target PE |
| :---: | :---: | :---: | :---: |
| S\&P 500 | 4,200 | 3.9\% | 18.2 |
| EuroStoxx 50 | 3,650 | 3.0\% | 12.8 |
| Stoxx 600 | 430 | 2.9\% | 13.3 |
| MSCI Japan | 1,150 | 6.4\% | 13.0 |
| MSCI Asia xJ | 695 | 3.9\% | 13.0 |
| MSCI EM | 1,060 | 0.1\% | 11.9 |
| S\&P 500 Outlook at Yearend |  |  |  |
|  | 2021 | 2022F | 2023F |
| S\&P 500 | 4766 | 4100 | 4400 |
| Dividend Yield | 1.4\% | 1.6\% | 1.6\% |
| S\&P EPS | \$210 | \$225 | \$235 |
| Trailing PE | 22.7 | 18.2 | 18.7 |
| DPS | \$60.50 | \$68 | \$72 |
| Next 5\%+ Price Move |  |  |  |

Risk of near-term correction
( Low / Moderate / High )

| Taxable U.S. Investor Asset Allocations |  |  |
| :---: | :---: | :---: |
| Asset Class | Long-term | Current |
| Fixed Income/Cash | 30-35\% | 36.5\% |
| Equities | 55-60\% | 54.5\% |
| US Equities | 40\% | 39.0\% |
| S\&P 500 | 35\% | 34.0\% |
| Small Caps | 0-10\% | 5.0\% |
| Foreign DM | 10-15\% | 9.5\% |
| Foreign EM | 0-10\% | 6.0\% |
| Alternatives | 10\% | 9\% |
| Key CIO Views |  |  |
| Macro signal: | 2021 | Jun 2023F |
| U.S. Fed Funds rate | 0-0.25\% | 3.25-3.50\% |
| 10yr Treasury yield | 1.52\% | 3.25\% |
| US IG Corp Spreads | 100bp | 180bp |
| US High Yield Spreads | 340bp | 570bp |
| Crude Oil (WTI) \$/bbl | 75 | 110 |
| EUR / USD FX rate | 1.13 | 1.10 |
| GDP Forecasts |  |  |
| Region 2021 | 2022F | 2023F |
| US 5.7\% | 2.0\% | 0.8\% |
| World $6.0 \%$ | 3.1\% | 3.1\% |
| Euro area 5.2\% | 2.9\% | 1.8\% |
| China 8.1\% | 3.8\% | 5.3\% |
| Japan 1.7\% | 1.7\% | 1.8\% |
| * Q4/Q4 GDP growth |  |  |
| EPS = Earnings Per Share <br> GDP = Gross Domestic Product <br> FX = Foreign Exchange <br> TIPs - Treasury Inflation Protected Securities <br> Source: DWS Investment Management GmbH. All opinions and claims are based upon data on 7/18/2022 and may not come to pass. This information is subject to change at any time, based upon economic, market and other considerations and should not be construed as a recommendation. All foreign asset exposures are not FX hedged unless otherwise noted. For illustrative purposes only. |  |  |



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## DIGITAL, SERVICES AND HIGH R\&D



[^1]S\&P 500 EPS decline during recessions since 1900

|  | Peak 4-qtr | Trough 4-qtr | $\begin{array}{\|c\|} \hline \text { PE on peak } \\ 4 \text {-qtr } \end{array}$ | $\begin{gathered} \text { PE on trough } \\ 4-q t r \end{gathered}$ | Peak to trough EPS cycle |  |  | S\&P low |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EPS (\$/sh) | EPS (\$/sh) | EPS, qtrend price | EPS, qtr-end price | $\begin{gathered} \text { EPS } \\ \text { decline } \end{gathered}$ | Change in PE | S\&P Price Return | Price | trough EPS |
| 1902-04 | \$4.94 | \$3.81 | 13.4x | 14.5x | -23\% | 8\% | -16\% |  |  |
| 1906-08 | 6.11 | 4.68 | 12.7 | 13.5 | -23\% | 6\% | -18\% |  |  |
| 1909-11 | 6.20 | 4.76 | 12.7 | 15.6 | -23\% | 23\% | -6\% |  |  |
| 1912-14 | 5.65 | 4.16 | 13.6 | 15.6 | -26\% | 15\% | -15\% |  |  |
| 1916-21 | 12.43 | 2.33 | 6.2 | 25.2 | -81\% | 308\% | -24\% |  |  |
| 1926-27 | 1.24 | 1.11 | 10.9 | 15.9 | -10\% | 46\% | 31\% |  |  |
| 1929-32 | 1.61 | 0.41 | 13.3 | 16.8 | -75\% | 26\% | -68\% | 4.4 | 10.7x |
| 1937-38 | 1.22 | 0.62 | 11.3 | 19.7 | -49\% | 75\% | -11\% | 8.5 | 13.7 |
| 1941-46 | 1.19 | 0.84 | 8.6 | 21.9 | -29\% | 156\% | 81\% | 13.55 | 16.1 |
| 1950-52 | 2.84 | 2.34 | 7.2 | 10.7 | -18\% | 48\% | 22\% | 16.68 | 7.1 |
| 1956-58 | 3.69 | 2.88 | 13.1 | 17.4 | -22\% | 32\% | 3\% | 38.98 | 13.5 |
| 1959-61 | 3.43 | 3.03 | 16.6 | 21.3 | -12\% | 29\% | 14\% | 52.34 | 17.3 |
| 1969-70 | 5.89 | 5.13 | 15.8 | 18.0 | -13\% | 14\% | -1\% | 69.29 | 13.5 |
| 1974-75 | 9.11 | 7.76 | 7.0 | 10.8 | -15\% | 55\% | 32\% | 62.28 | 8.0 |
| 1981-83 | 15.36 | 12.42 | 8.0 | 12.3 | -19\% | 54\% | 25\% | 102.42 | 8.2 |
| 1989-91 | 25.53 | 18.48 | 12.5 | 22.6 | -28\% | 81\% | 31\% | 295.46 | 16.0 |
| 2000-02 | 57.37 | 44.19 | 25.0 | 26.0 | -23\% | 4\% | -21\% | 1527.46 | 34.6 |
| 2007-09 | 92.15 | 50.84 | 16.3 | 20.8 | -45\% | 27\% | -30\% | 676.53 | 13.3 |
| 2019-20 | 164.38 | 141.00 | 18.0 | 23.9 | -14\% | 33\% | 14\% | 2237.40 | 14.2 |
| Avg (1900-2009) |  |  | 12.7x | 18.0x | -29\% | 55\% | 2\% |  | 14.3x |
| Avg (1950-2009) |  |  | 13.9 x | 18.4x | -21\% | 38\% | 9\% |  | 14.6x |
| Avg ex. 1916-21 (WWI profits) \& Great Depression |  |  | 13.9 x | 17.7x | -23\% | 42\% | 8\% |  | 14.6x |

Source: IBES, S\&P, DWS Investment GmbH as of July 2022. Past performance may not be indicative of future results.
S\&P trough price is $15 x$ trough EPS on average in recessions
Recessions are only evident in hindsight, market prices usually react earlier than corporate earnings. That's why S\&P price typically reaches its trough earlier than EPS. It helps to forecast market troughs by evaluating the possible PE on trough trailing 4-qtr S\&P EPS, even though they usually don't happen at the same time. The average such PE during past recessions is about 15 since 1950. If we apply $15 x$ to an expected $\$ 210-\$ 220$ trough S\&P EPS, it suggests 3200 for the price trough. However, real long-term interest rates are now and likely to stay lower than history. They've rarely gone above $1 \%$ since the financial crisis. DWS forecasts that the Fed Funds rate will likely rise to $3.25 \%-3.50 \%$ by year end and then the Fed will pause when the recession is evident. Under this backdrop, the real long-term interest rate is not likely to significantly exceed 1\%. This will provide some extra support for the S\&P PE. Therefore, for this downturn, we think the S\&P PE on trough price and trough EPS should be higher than history, between $16 x-18 x$, which suggests a trough S\&P price of $3500-3700$. If the recession is short lived and a recovery in S\&P EPS is visible with healthy growth to follow in the mid years of this decade being credible, then the 3666 recent S\&P price low might hold.

Global Supply Chain Pressure Index (GSCPI)


Note: The GSCPI integrates a number of commonly used metrics with the aim of providing a comprehensive summary of potential supply chain disruptions. Global transportation costs are measured by employing data from the Baltic Dry Index (BDI) and the Harpex index, as well as airfreight cost indices from the U.S. Bureau of Labor Statistics. The GSCPI also uses several supply chain-related components from Purchasing Managers' Index (PMI) surveys, focusing on manufacturing firms across seven interconnected economies: China, the euro area, Japan, South Korea, Taiwan, the United Kingdom, and the United States.
Source: Federal Reserve Bank of New York, DWS Investment GmbH as of June 2022. Past performance may not be indicative of future results.

Weekly Economic Index (WEI) vs. GDP growth


The WEI represents the common component of ten daily and weekly series covering consumer behavior, the labor market, and production, including

- Initial unemployment insurance claims
- The American Staffing Association Staffing Index
- Continuing unemployment insurance claim
- Raw steel production
- Federal taxes withheld
- U.S. railroad traffic
- Redbook same-store sales
- U.S. fuel sales to end users
- Rasmussen Consumer Index
- U.S. electricity output

Source: Federal Reserve Bank of New York, DWS Investment GmbH as of 7/7/2022. Past performance may not be indicative of future results.

Capex growth vs. U.S. real GDP


Source: Haver, DWS Investment GmbH as of 1Q 2022. Past performance may not be indicative of future results.


Source: Haver, IBES, DWS Investment GmbH as of $7 / 8 / 2022$. Past performance may not be indicative of future results.

| DWS Profit Indicator |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2Q22 | 1Q22 | 4Q21 | 3Q21 |  | Tactical Signal |  |
| DWS Profit Indicator (qtrly avg.) | 58.8 | 60.6 | 59.8 | 56.0 |  | Positive |  |
|  | June | May | Apr |  | Prior 3mo avg. | Prior 6mo avg. | Current <br> Signal |
| DWS Profit Indicator (monthly) | 57.9 | 60.0 | 58.3 |  |  |  |  |
|  |  | Current Month | Prior <br> Month | Chg. |  |  |  |
| Mfg. ISM | Jun-22 | 53.0 | 56.1 | -3.1 | 54.8 | - 56.3 |  |
| ISM New Orders Index | Jun-22 | 49.2 | 55.1 | -5.9 | 52.6 | 55.2 |  |
| ISM Production Index | Jun-22 | 54.9 | 54.2 | 0.7 | 54.2 | 55.6 |  |
| Industrial Production (seq 3mo chg, ar) | Jun-22 | 6.1\% | 7.7\% | -1.6\% | 6.9\% | 5.9\% | Positive |
| Capacity Utilization (\%) | Jun-22 | 80.0 | 80.3 | -0.3 | 80.2 | 79.8 |  |
| Nondefense Cap Gds ex Aircraft mfr shipments (seq 3mo chg, ar | May-22 | 9.0\% | 11.8\% | -2.8\% | 10.4\% | 12.5\% |  |
| Auto Sales (seq 3mo chg, ar) | Jun-22 | -21.4\% | -21.4\% | 0.0\% | -15.9\% | 13.7\% |  |
| Exports (seq 3mo chg, ar) | May-22 | 38.9\% | 27.4\% | 11.4\% | 25.8\% | 23.3\% | Positive |
| Capital Goods exports (seq 3mo chg, ar) | May-22 | 12.0\% | 11.2\% | 0.9\% | 11.1\% | 14.0\% |  |
| China Machinery \& Transport Equip. imports (seq 3mo chg, ar) | May-22 | -42.2\% | -10.5\% | -31.7\% | -11.3\% | 5.3\% |  |
| Mfg ISM Export Orders Index - 3mo avg. | Jun-22 | 52.1 | 52.9 | -0.8 | 53.1 | 53.8 |  |
| Initial claims (month avg., 000's) | Jun-22 | 232 | 207 | 25 | 208 | 204 | Neutral |
| Unemployment Rate (\%) | Jun-22 | 3.6 | 3.6 | 0.0 | 3.6 | 3.7 |  |
| Change in non-farm payroll (000's) | Jun-22 | 372 | 384 | -12 | 375 | 457 |  |
| JOLTS Job Openings (000's) | Jan-21 | 11254 | 11681 | -427 | 11597 | 11478 |  |
| Loan growth (seq 3mo chg, ar)** | May-22 | 10.8\% | 9.6\% | 1.2\% | 10.0\% | 9.3\% | Negative |
| C\&I loan growth (seq 3mo chg, ar) | May-22 | 12.7\% | 10.0\% | 2.7\% | 10.8\% | 8.8\% |  |
| CRE loan growth (seq 3mo chg, ar) | May-22 | 8.8\% | 8.5\% | 0.3\% | 8.5\% | 7.9\% |  |
| Home Equity \& Other Residential loan growth (seq 3mo chg, ar) | May-22 | 7.5\% | 5.7\% | 1.8\% | 6.0\% | 5.8\% |  |
| Consumer loan growth (seq 3mo chg, ar) | May-22 | 13.8\% | 12.9\% | 0.9\% | 12.8\% | 12.1\% |  |
| Oil price (\% chg from prior quarter avg. price) | Jun-22 | 10.7\% | 16.7\% |  |  |  | Positive |
| WTI spot month end, \$/bbl | Jun-22 | 109.07 | 114.96 | -5.89 | 109.54 | 104.03 |  |
| Brent spot month end, \$/bbl | Jun-22 | 122.21 | 125.53 | -3.32 | 116.88 | 108.61 |  |

Source: Haver, ISM, FRB, Census, China Customs, DOL, BLS, WSJ, EIA, CME, DWS Investment GmbH as of 7/15/2022. Past performance may not be indicative of future results.

| Regional Federal Reserve manufacturing surveys |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Federal Reserve Manufacturing Surveys |  |  |  |  |  |
| Current Business Activity Index |  | Current Month | m/m <br> Chg | Prior <br> 3mo avg | Regions |
| Empire State Mfg Survey (NY) | Jun-22 | -1.2 | 10.4 | 3.9 | NY |
| Philly Fed Business Outlook Survey | Jun-22 | -3.3 | -5.9 | 5.6 | DE, NJ, PA |
| Texas Mfg Outlook Survey (Dallas) | Jun-22 | -17.7 | -10.4 | -8.0 | TX |
| Richmond Mfg Survey | Jun-22 | -11.0 | -2.0 | -2.0 | MD, NC, SC, VA, WV |
| Kansas City Fed Mfg Survey | Jun-22 | 12.0 | -11.0 | 20.0 | CO, KS, MO, OK, NE, NM, W |
| Future 6mo Capital Expenditures Index |  |  |  |  |  |
| Empire State Mfg Survey (NY) | Jun-22 | 25.6 | 0.2 | 27.6 |  |
| Philly Fed Business Outlook Survey | Jun-22 | 11.7 | 2.1 | 13.7 |  |
| Richmond Mfg Survey | Jun-22 | 18.0 | -9.0 | 25.7 |  |
| Kansas City Fed Mfg Survey | Jun-22 | 14.0 | -10.0 | 22.3 |  |
| Note: Level: \% of firms reporting increase less \% of firm reporting decrease |  |  |  |  |  |

[^2]U.S. non-residential construction


Source: Haver, DWS Investment GmbH as of $5 / 31 / 2022$. Past performance may not be indicative of future results.
U.S. non-residential construction (12-month average: June 2021 - May 2022)


Source: Haver, DWS Investment GmbH as of $5 / 31 / 2022$. Past performance may not be indicative of future results.

## Worldwide semiconductor sales



Source: Haver, DWS Investment GmbH as of May 2022. Past performance may not be indicative of future results.


Source: Haver, DWS Investment GmbH as of $7 / 8 / 2022$. Past performance may not be indicative of future results.

## Housing Starts



Source: Haver, DWS Investment GmbH as of May 2022. Past performance may not be indicative of future results.

## Building Permits



Source: Haver, DWS Investment GmbH as of May 2022. Past performance may not be indicative of future results.
U.S. Durable Goods - Aircraft and Parts: New Orders, Shipments and Inventories


Source: Haver, DWS Investment GmbH as of May 2022. Past performance may not be indicative of future results.


Source: Haver, DWS Investment GmbH as of May 2022. Past performance may not be indicative of future results.

## WTI crude oil and natural gas prices



Source: Haver, DWS Investment GmbH as of 7/12/2022. Past performance may not be indicative of future results.
Natural gas prices: US vs. Europe


Source: Haver, Factset, DWS Investment GmbH as of $7 / 15 / 2022$. Past performance may not be indicative of future results.


Source: Haver, DWS Investment GmbH as of 7/12/2022. Past performance may not be indicative of future results.

Soybeans, wheat and corn prices


Source: Haver, DWS Investment GmbH as of 7/12/2022. Past performance may not be indicative of future results.
China imports and exports


Source: Haver, DWS Investment GmbH as of 1Q2022. Past performance may not be indicative of future results.
U.S. imports and exports


Source: Haver, DWS Investment GmbH as of 1Q2022. Past performance may not be indicative of future results.


Source: Haver, DWS Investment GmbH as of June 2022. Past performance may not be indicative of future results.

## University of Michigan consumer sentiment



Source: Haver, DWS Investment GmbH as of June 2022. Past performance may not be indicative of future results.

## U.S. wage growth



Source: Haver, DWS Investment GmbH as of June 2022. Past performance may not be indicative of future results.

Trade weighted dollar index


Source: Haver, DWS Investment GmbH as of $7 / 13 / 2022$. Past performance may not be indicative of future results.


Source: Haver, DWS Investment GmbH as of 7/13/2022. Past performance may not be indicative of future results.


[^3]
## S\&P 500 quarterly EPS revision



Source: Factset, IBES, DWS Investment GmbH as of 7/5/2022. Past performance may not be indicative of future results.
S\&P 5002022 EPS revision (ex. Energy)


Source: Factset, IBES, DWS Investment GmbH as of $7 / 5 / 2022$. Past performance may not be indicative of future results.

## S\&P 5002022 EPS revision by sector



Source: Factset, IBES, DWS Investment GmbH as of 7/5/2022. Past performance may not be indicative of future results.

S\&P 500: EPS cut during the calendar quarter vs. EPS beat during earnings season


Source: Factset, DWS Investment GmbH as of $7 / 5 / 2022$. Past performance may not be indicative of future results.
S\&P 500: 2Q22 earnings season summary statistics

|  | 2Q22 Summary (Based on reported companies) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% of EPS \# Cos reported reported |  | EPS (\% of co's) |  | EPS | $\begin{gathered} \text { EPS } \\ \mathrm{y} / \mathrm{y}(\%) \\ \hline \end{gathered}$ | Sales (\% of co's) |  | Sales surprise (\%) | Sales y/y (\%) |
|  |  |  | \% beat | \% miss | surprise (\%) |  | \% beat | \% miss |  |  |
| S\&P 500 | 3.5\% | 18 | 78\% | 22\% | 2.4\% | 15.4\% | 67\% | 28\% | 1.2\% | 11.7\% |
| S\&P 500 ex. Financials \& Real Est | 4.2\% | 17 | 76\% | 24\% | 2.3\% | 15.2\% | 71\% | 29\% | 1.2\% | 11.7\% |
| S\&P 500 ex. Energy | 3.9\% | 18 | 78\% | 22\% | 2.4\% | 15.4\% | 67\% | 28\% | 1.2\% | 11.7\% |
| S\&P ex. Tech | 1.9\% | 13 | 77\% | 23\% | -0.4\% | 15.1\% | 62\% | 31\% | 1.3\% | 10.6\% |
| S\&P ex. Energy, Financials \& Real Est | 4.8\% | 17 | 76\% | 24\% | 2.3\% | 15.2\% | 71\% | 29\% | 1.2\% | 11.7\% |
| Communication Services | 0.0\% | 0 |  |  |  |  |  |  |  |  |
| Consumer Discretionary | 6.8\% | 6 | 67\% | 33\% | -5.3\% | 29.1\% | 67\% | 33\% | 0.3\% | 18.7\% |
| Consumer Staples | 12.7\% | 5 | 80\% | 20\% | 2.2\% | -1.5\% | 80\% | 20\% | 2.2\% | 8.3\% |
| Energy | 0.0\% | 0 |  |  |  |  |  |  |  |  |
| Financials | 0.2\% | 1 | 100\% | 0\% | 16.4\% | 38.2\% | 0\% | 0\% | 3.3\% | 22.3\% |
| Health Care | 0.0\% | 0 |  |  |  |  |  |  |  |  |
| Industrials | 4.4\% | 1 | 100\% | 0\% | 0.4\% | 37.1\% | 0\% | 100\% | -0.7\% | 8.1\% |
| Information Technology | 9.6\% | 5 | 80\% | 20\% | 4.8\% | 15.6\% | 80\% | 20\% | 0.7\% | 16.0\% |
| Materials | 0.0\% | 0 |  |  |  |  |  |  |  |  |
| Real Estate | 0.0\% | 0 |  |  |  |  |  |  |  |  |
| Utilities | 0.0\% | 0 |  |  |  |  |  |  |  |  |

Source: Factset, DWS Investment GmbH as of 7/5/2022. Past performance may not be indicative of future results.
S\&P 500: 2Q22 pre-season reporters (companies with May quarter end)

|  |  | Industry | Reporting Date | 2Q22 EPS |  | 2Q22 Sales |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ticker | Company Name Sector |  |  | Surprise (\%) | y/y | Surprise (\%) | y/y |
| AZO-US | AutoZone, Inc. Consumer Discretionary | Specialty Retail | May 24, 2022 | 12.0\% | 1.0\% | 4.1\% | 5.9\% |
| COST-US | Costco Wholesale Cc Consumer Staples | Food \& Staples Retailing | May 26, 2022 | 0.0\% | 10.8\% | 1.7\% | 16.2\% |
| ORCL-US | Oracle Corporation Information Technology | Software | Jun 13, 2022 | 12.4\% | -4.6\% | 1.5\% | 5.5\% |
| ADBE-US | Adobe Incorporated Information Technology | Software | Jun 16, 2022 | 1.5\% | 9.7\% | 1.1\% | 14.4\% |
| LEN-US | Lennar Corporation C Consumer Discretionary | Household Durables | Jun 21, 2022 | 13.1\% | 59.5\% | 2.5\% | 30.0\% |
| DRI-US | Darden Restaurants, Consumer Discretionary | Hotels Restaurants \& Leisure | Jun 23, 2022 | 0.9\% | 5.2\% | 2.5\% | 14.2\% |
| FDS-US | FactSet Research Sy Financials | Capital Markets | Jun 23, 2022 | 16.4\% | 38.4\% | 2.5\% | 22.3\% |
| FDX-US | FedEx Corporation Industrials | Air Freight \& Logistics | Jun 23, 2022 | -31.7\% | 7.3\% | -0.3\% | 8.0\% |
| ACN-US | Accenture Plc Class / Information Technology | IT Services | Jun 23, 2022 | -3.1\% | 16.0\% | 0.5\% | 21.8\% |
| CCL-US | Carnival Corporation Consumer Discretionary | Hotels Restaurants \& Leisure | Jun 24, 2022 | - |  | -11.9\% | 4702.0\% |
| KMX-US | CarMax, Inc. Consumer Discretionary | Specialty Retail | Jun 24, 2022 | 2.6\% | -41.6\% | 2.5\% | 21.0\% |
| NKE-US | NIKE, Inc. Class B Consumer Discretionary | Textiles Apparel \& Luxury Goods | Jun 27, 2022 | 8.4\% | -3.7\% | 1.2\% | -0.9\% |
| GIS-US | General Mills, Inc. Consumer Staples | Food Products | Jun 29, 2022 | 10.9\% | 22.1\% | 1.9\% | 8.1\% |
| MKC-US | McCormick \& Compa Consumer Staples | Food Products | Jun 29, 2022 | -25.8\% | -30.1\% | -3.8\% | -1.3\% |
| PAYX-US | Paychex, Inc. Information Technology | IT Services | Jun 29, 2022 | 2.7\% | 12.9\% | 3.6\% | 11.2\% |
| STZ-US | Constellation Brands, Consumer Staples | Beverages | Jun 30, 2022 | 5.1\% | 8.1\% | 9.3\% | 16.6\% |
| WBA-US | Walgreens Boots Allic Consumer Staples | Food \& Staples Retailing | Jun 30, 2022 | 5.5\% | -30.5\% | 2.2\% | -4.2\% |
| MU-US | Micron Technology, Ir Information Technology | Semiconductors \& Semiconductor Equipment | Jun 30, 2022 | 5.3\% | 37.2\% | -0.7\% | 16.4\% |
| Weighted Average |  |  |  | 3.0\% | 11.0\% | 1.3\% | 11.2\% |

[^4]For institutional client and registered representative use only. Not for public viewing or distribution.

2Q22 S\&P 500 earnings to be reported each week


Source: Factset, DWS Investment GmbH as of 7/5/2022. Past performance may not be indicative of future results.
2Q22 S\&P 500 earnings to be reported each week by sector


Source: Factset, DWS Investment GmbH as of 7/5/2022. Past performance may not be indicative of future results.

## S\&P 500 EPS \& Sales growth and Net Margins by sector (2Q22 is blended with actual for reported and consensus for the rest)

|  | 2018 |  |  |  |  | 2019 |  |  |  |  | 2020 |  |  |  |  | 2021 |  |  |  |  | 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EPS growth (y/y) | 1Q18 | 2Q18 | 3Q18 | 4Q18 | 2018 | 1Q19 | 2Q19 | 3Q19 | 4Q19 | 2019 | 1 Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1Q22 | 2Q22 |
| S\&P 500 | 27.9\% | 26.8\% | 27.6\% | 15.7\% | 21.5\% | 1.1\% | 2.7\% | 1.1\% | 3.5\% | 2.1\% | -11.7\% | -31.2\% | -7.0\% | 4.2\% | -9.2\% | 49.5\% | 91.6\% | 40.6\% | 30.2\% | 47.5\% | 10.7\% | 5.6\% |
| S\&P 500 ex. Financials \& Real Est | 28.2\% | 27.4\% | 25.7\% | 15.8\% | 20.6\% | -0.6\% | 1.0\% | 0.7\% | 2.4\% | 0.7\% | -5.0\% | -27.7\% | -7.8\% | 0.9\% | -7.2\% | 36.9\% | 81.8\% | 42.4\% | 36.0\% | 44.6\% | 18.4\% | 12.0\% |
| S\&P 500 ex. Energy | 26.3\% | 24.4\% | 24.7\% | 13.1\% | 19.2\% | 2.2\% | 3.5\% | 3.4\% | 6.4\% | 3.9\% | -11.1\% | -25.0\% | -3.0\% | 7.8\% | -5.2\% | 50.4\% | 77.4\% | 33.0\% | 22.3\% | 40.6\% | 4.8\% | -2.7\% |
| S\&P 500 ex. Tech | 26.0\% | 25.1\% | 27.0\% | 18.5\% | 22.1\% | 2.6\% | 4.5\% | 1.8\% | 1.1\% | 1.7\% | -17.0\% | -38.7\% | -9.7\% | 0.8\% | -15.0\% | 53.2\% | 107.1\% | 41.3\% | 32.4\% | 53.3\% | 9.7\% | 6.8\% |
| S\&P ex. Energy, Fin \& Real Est | 26.2\% | 24.3\% | 22.0\% | 12.4\% | 17.5\% | 0.9\% | 1.8\% | 3.6\% | 5.9\% | 3.0\% | -3.9\% | -19.4\% | -2.8\% | 5.4\% | -1.9\% | 37.6\% | 65.3\% | 32.8\% | 25.9\% | 36.1\% | 10.9\% | 1.6\% |
| S\&P ex. Energy, Fin, Real Est, Healthcare | 28.8\% | 26.0\% | 23.2\% | 12.1\% | 18.9\% | -1.4\% | -0.7\% | 2.5\% | 4.9\% | 1.3\% | -6.3\% | -25.9\% | -5.5\% | 4.9\% | -4.5\% | 40.5\% | 81.1\% | 34.4\% | 25.8\% | 38.6\% | 9.1\% | 1.4\% |
| FANG (FB, AMZN, NFLX, Google) | 60.1\% | 46.2\% | 49.7\% | 54.9\% | 47.7\% | -19.5\% | 40.1\% | -8.7\% | 16.2\% | 4.4\% | 15.6\% | 17.1\% | 64.7\% | 56.5\% | 41.2\% | 149.9\% | 112.5\% | 28.1\% | 36.0\% | 66.7\% | -39.7\% | -24.5\% |
| FANG \& AAPL | 43.7\% | 42.8\% | 45.1\% | 24.3\% | 32.2\% | -14.8\% | 15.1\% | -2.7\% | 17.9\% | 3.4\% | 9.7\% | 17.6\% | 31.4\% | 44.9\% | 34.2\% | 136.1\% | 108.1\% | 42.3\% | 30.7\% | 57.6\% | -19.8\% | -19.3\% |
| S\&P ex FANG | 26.8\% | 26.4\% | 26.8\% | 14.3\% | 20.6\% | 2.0\% | 1.6\% | 1.5\% | 2.9\% | 1.9\% | -12.7\% | -33.2\% | -9.9\% | 1.2\% | -11.4\% | 44.7\% | 90.1\% | 41.6\% | 29.7\% | 46.1\% | 14.8\% | 8.0\% |
| S\&P ex FANG \& AAPL | 26.6\% | 25.9\% | 26.2\% | 14.8\% | 20.6\% | 2.5\% | 1.9\% | 1.4\% | 1.9\% | 1.9\% | -13.3\% | -34.7\% | -10.1\% | -1.0\% | -13.0\% | 41.7\% | 89.5\% | 40.4\% | 30.2\% | 46.1\% | 15.2\% | 8.9\% |
| S\&P ex. Energy \& Fin \& Real Est \& FANG | 24.5\% | 23.6\% | 20.7\% | 10.4\% | 16.1\% | 2.1\% | 0.3\% | 4.4\% | 5.2\% | 2.9\% | -4.8\% | -21.4\% | -6.3\% | 1.6\% | -4.5\% | 30.8\% | 61.3\% | 33.3\% | 24.7\% | 33.4\% | 16.7\% | 4.4\% |
| Communication Services | 30.7\% | 18.6\% | 27.2\% | 24.9\% | 23.1\% | -10.3\% | 18.6\% | -0.8\% | 8.1\% | 3.2\% | 3.1\% | -15.9\% | 3.8\% | 10.3\% | 2.8\% | 53.9\% | 73.9\% | 36.5\% | 16.8\% | 39.9\% | -3.7\% | -11.3\% |
| Consumer Discretionary | 17.3\% | 21.3\% | 29.2\% | 20.4\% | 20.9\% | 11.1\% | 4.7\% | 2.4\% | 2.4\% | 1.5\% | -50.1\% | -62.6\% | 2.5\% | 3.2\% | -19.7\% | 200.6\% | 271.7\% | 16.9\% | 47.4\% | 75.2\% | -24.0\% | -6.1\% |
| Multiline \& Specialty Retail | 22.9\% | 30.4\% | 24.4\% | 18.8\% | 23.0\% | 9.7\% | 6.4\% | 10.8\% | 6.3\% | 9.2\% | -40.6\% | 22.6\% | 39.6\% | 17.4\% | 11.6\% | 203.8\% | 36.7\% | 16.2\% | 17.0\% | 40.4\% | 0.4\% | -8.0\% |
| Consumer Staples | 13.1\% | 14.1\% | 11.3\% | 4.8\% | 10.0\% | 0.9\% | 1.5\% | 3.4\% | 2.7\% | 1.2\% | 6.9\% | -5.2\% | 5.3\% | 6.0\% | 4.7\% | 10.1\% | 19.7\% | 7.0\% | 7.2\% | 10.7\% | 8.1\% | -1.7\% |
| Energy | 76.1\% | 109.5\% | 105.8\% | 89.7\% | 89.0\% | -24.3\% | -12.1\% | -37.0\% | -42.3\% | -30.2\% | -29.2\% | -170.7\% | -110.6\% | -103.9\% | -110.9\% | 16.5\% | 241.3\% | 1720\% | 6576\% | -1411\% | 271.3\% | 234.5\% |
| Financials | 29.9\% | 27.6\% | 41.0\% | 16.8\% | 28.4\% | 7.2\% | 10.5\% | 2.4\% | 9.6\% | 7.7\% | -39.1\% | -48.3\% | -3.4\% | 20.4\% | -18.3\% | 137.1\% | 164.7\% | 36.1\% | 10.0\% | 67.1\% | -17.4\% | -20.4\% |
| Financials ex. BAC, C \& JPM | 26.0\% | 25.4\% | 45.4\% | 13.2\% | 27.0\% | 5.2\% | 6.6\% | 0.9\% | 4.6\% | 4.9\% | -32.1\% | -45.0\% | -2.1\% | 23.5\% | -14.7\% | 104.7\% | 149.0\% | 33.7\% | 15.9\% | 60.9\% | -9.9\% | -17.7\% |
| Health Care | 16.8\% | 17.8\% | 17.1\% | 13.9\% | 12.1\% | 10.0\% | 12.1\% | 8.6\% | 10.1\% | 9.9\% | 4.6\% | 3.6\% | 8.2\% | 7.3\% | 7.9\% | 28.3\% | 25.5\% | 27.7\% | 26.2\% | 28.0\% | 16.9\% | 2.2\% |
| Industrials | 29.4\% | 25.5\% | 28.1\% | 33.7\% | 24.4\% | 8.0\% | -8.9\% | 2.5\% | -9.8\% | -3.5\% | -27.5\% | -81.8\% | -48.1\% | -30.0\% | -48.2\% | -2.4\% | 425.1\% | 80.2\% | 40.5\% | 73.5\% | 38.9\% | 30.1\% |
| Industrials ex. BA | 26.6\% | 25.3\% | 27.8\% | 30.3\% | 22.6\% | 9.6\% | 5.6\% | 6.2\% | 3.2\% | 5.0\% | -20.0\% | -76.1\% | -44.8\% | -25.6\% | -43.9\% | -2.7\% | 263.1\% | 74.5\% | 44.9\% | 64.8\% | 40.5\% | 31.2\% |
| Industrials ex. Defense | 30.3\% | 26.0\% | 26.2\% | 25.6\% | 23.5\% | 6.4\% | -10.9\% | 2.7\% | -12.1\% | -4.9\% | -30.5\% | -90.3\% | -53.2\% | -35.1\% | -54.0\% | -4.6\% | 834.3\% | 104.4\% | 48.1\% | 91.4\% | 46.7\% | 33.9\% |
| Information Technology | 35.5\% | 34.1\% | 29.6\% | 7.2\% | 19.6\% | -4.6\% | -4.1\% | -1.9\% | 12.0\% | 3.4\% | 10.1\% | 1.6\% | 4.0\% | 15.1\% | 14.2\% | 37.9\% | 49.9\% | 38.1\% | 24.0\% | 29.6\% | 14.2\% | 1.0\% |
| Materials | 67.2\% | 63.1\% | -27.7\% | -22.7\% | 11.0\% | -12.7\% | -19.3\% | 78.4\% | -11.5\% | -9.3\% | -7.7\% | -34.8\% | -13.3\% | 12.6\% | -6.2\% | 47.5\% | 133.3\% | 86.4\% | 63.8\% | 83.9\% | 47.2\% | 19.1\% |
| Real Estate | 6.6\% | 7.0\% | 4.9\% | 7.8\% | 6.7\% | 4.3\% | 0.8\% | 4.6\% | 0.6\% | 2.2\% | -1.3\% | -12.5\% | -6.5\% | -0.9\% | -4.9\% | 6.3\% | 29.3\% | 17.5\% | 9.9\% | 14.8\% | 17.6\% | 6.4\% |
| Utilities | 18.8\% | 7.4\% | 11.9\% | -10.5\% | 7.5\% | -0.7\% | 1.5\% | 7.3\% | 18.0\% | 6.3\% | 4.3\% | 6.9\% | 0.8\% | -2.9\% | 1.2\% | -1.3\% | 12.8\% | 10.3\% | -1.2\% | 5.2\% | 26.4\% | -11.1\% |


|  | 2018 |  |  |  |  | 2019 |  |  |  |  | 2020 |  |  |  |  | 2021 |  |  |  |  | 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sales growth ( $\mathrm{y} / \mathrm{y}$ ) | 1Q18 | 2Q18 | 3Q18 | 4Q18 | 2018 | 1Q19 | 2Q19 | 3Q19 | 4Q19 | 2019 | 1Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1Q22 | 2 Q 22 |
| S\&P 500 | 9.4\% | 11.2\% | 10.7\% | 4.0\% | 8.7\% | 5.8\% | 5.2\% | 4.0\% | 7.8\% | 5.7\% | -1.8\% | -10.3\% | -2.3\% | -0.5\% | -3.7\% | 9.5\% | 21.8\% | 13.9\% | 15.2\% | 15.0\% | 13.6\% | 10.9\% |
| S\&P 500 ex. Financials \& Real Est | 9.2\% | 10.2\% | 9.6\% | 1.8\% | 7.6\% | 3.3\% | 2.9\% | 2.1\% | 6.5\% | 3.7\% | -2.8\% | -11.7\% | -2.5\% | 1.5\% | -3.9\% | 12.2\% | 26.7\% | 17.5\% | 16.5\% | 18.8\% | 15.2\% | 12.5\% |
| S\&P 500 ex. Energy | 7.9\% | 8.5\% | 7.6\% | 1.6\% | 6.3\% | 3.7\% | 3.4\% | 3.5\% | 7.7\% | 4.6\% | -1.6\% | -6.7\% | 0.3\% | 4.1\% | -1.0\% | 12.4\% | 20.6\% | 13.4\% | 11.6\% | 15.0\% | 10.2\% | 6.9\% |
| S\&P 500 ex. Tech | 8.0\% | 9.7\% | 8.7\% | 2.2\% | 7.1\% | 3.8\% | 3.4\% | 2.4\% | 6.4\% | 4.0\% | -3.2\% | -12.5\% | -3.4\% | -0.1\% | -5.2\% | 10.4\% | 24.8\% | 16.3\% | 15.9\% | 17.3\% | 13.6\% | 11.4\% |
| S\&P ex. Energy, Fin \& Real Est | 8.4\% | 8.5\% | 8.0\% | 1.0\% | 6.4\% | 3.5\% | 3.4\% | 3.3\% | 7.9\% | 4.6\% | -2.0\% | -7.1\% | 0.8\% | 4.9\% | -1.0\% | 13.1\% | 22.1\% | 13.8\% | 11.9\% | 16.6\% | 11.6\% | 7.9\% |
| S\&P ex. Energy, Fin, Real Est, Healthcare | 8.7\% | 8.8\% | 8.2\% | -0.6\% | 6.3\% | 0.7\% | 0.5\% | 0.2\% | 6.6\% | 1.8\% | -5.3\% | -9.9\% | -2.0\% | 2.7\% | -4.1\% | 13.9\% | 22.9\% | 13.4\% | 11.4\% | 17.9\% | 10.6\% | 8.3\% |
| FANG (FB, AMZN, NFLX, Google) | 37.5\% | 34.9\% | 27.4\% | 21.8\% | 29.4\% | 18.2\% | 20.9\% | 23.5\% | 20.6\% | 20.8\% | 21.2\% | 22.4\% | 27.6\% | 35.6\% | 27.4\% | 40.6\% | 38.9\% | 24.8\% | 17.1\% | 27.9\% | 11.8\% | 7.5\% |
| FANG \& AAPL | 27.6\% | 28.0\% | 24.2\% | 9.4\% | 21.3\% | 8.7\% | 13.7\% | 15.0\% | 15.8\% | 12.5\% | 13.8\% | 18.7\% | 18.4\% | 30.1\% | 22.4\% | 44.7\% | 38.2\% | 26.0\% | 14.9\% | 27.0\% | 10.7\% | 5.7\% |
| S\&P ex FANG | 7.9\% | 9.3\% | 8.5\% | 1.5\% | 6.7\% | 3.0\% | 2.5\% | 1.7\% | 5.9\% | 3.2\% | -3.2\% | -11.9\% | -3.7\% | -0.4\% | -4.8\% | 10.4\% | 23.8\% | 16.2\% | 15.6\% | 16.5\% | 13.5\% | 11.1\% |
| S\&P ex FANG \& AAPL | 7.8\% | 9.2\% | 8.3\% | 1.7\% | 6.6\% | 3.2\% | 2.5\% | 1.7\% | 5.8\% | 3.3\% | -3.3\% | -12.3\% | -3.8\% | -1.0\% | -5.2\% | 9.5\% | 23.5\% | 15.9\% | 15.8\% | 16.2\% | 13.7\% | 11.4\% |
| S\&P ex. Energy \& Fin \& Real Est \& FANG | 7.5\% | 7.7\% | 7.3\% | 0.1\% | 5.5\% | 2.9\% | 2.6\% | 2.5\% | 7.3\% | 3.8\% | -3.1\% | -8.5\% | -0.6\% | 3.0\% | -2.4\% | 11.5\% | 21.0\% | 13.1\% | 11.5\% | 15.8\% | 11.6\% | 7.9\% |
| Communication Services | 11.8\% | 10.5\% | 13.0\% | 12.6\% | 11.4\% | 12.5\% | 15.1\% | 11.2\% | 3.2\% | 9.2\% | 3.8\% | -7.2\% | 0.6\% | 5.5\% | 2.5\% | 12.4\% | 25.9\% | 16.5\% | 11.6\% | 14.6\% | 7.2\% | 2.9\% |
| Consumer Discretionary | 9.9\% | 9.8\% | 10.2\% | 7.6\% | 8.9\% | 4.5\% | 5.3\% | 5.7\% | 2.9\% | 3.9\% | 0.0\% | -12.3\% | 6.2\% | 11.5\% | 6.8\% | 19.8\% | 35.8\% | 10.6\% | 11.2\% | 13.2\% | 9.0\% | 9.5\% |
| Multiline \& Specialty Retail | 5.3\% | 7.6\% | 5.9\% | 3.1\% | 0.0\% | 4.6\% | 3.2\% | 4.2\% | 2.7\% | 0.0\% | 0.8\% | 11.4\% | 16.5\% | 15.5\% | 0.0\% | 28.5\% | 17.1\% | 9.1\% | 10.0\% | 0.0\% | 3.1\% | 3.1\% |
| Consumer Staples | 5.5\% | 5.7\% | 2.8\% | 1.7\% | 3.8\% | 2.4\% | 2.2\% | 3.6\% | 3.4\% | 2.7\% | 5.8\% | -0.3\% | 3.4\% | 4.7\% | 5.1\% | 3.7\% | 12.6\% | 10.2\% | 9.6\% | 6.5\% | 9.6\% | 5.7\% |
| Energy | 18.0\% | 28.0\% | 25.7\% | 8.7\% | 20.2\% | 0.7\% | -0.7\% | -8.7\% | -6.0\% | -4.0\% | -10.7\% | -54.0\% | -34.5\% | -32.2\% | -32.9\% | 3.2\% | 111.2\% | 73.1\% | 88.6\% | 51.5\% | 58.9\% | 60.8\% |
| Financials | 4.3\% | 8.2\% | 5.3\% | 4.8\% | 5.5\% | 4.7\% | 3.5\% | 4.2\% | 6.2\% | 4.6\% | 0.2\% | -4.0\% | -2.6\% | -0.6\% | -1.5\% | 9.3\% | 11.3\% | 10.7\% | 9.4\% | 5.5\% | 0.5\% | -0.5\% |
| Financials ex. BAC, C \& JPM | 3.7\% | 9.3\% | 5.6\% | 4.6\% | 5.6\% | 5.6\% | 3.6\% | 4.3\% | 6.4\% | 4.9\% | -0.2\% | -6.4\% | -2.0\% | 0.2\% | -1.8\% | 10.6\% | 16.2\% | 12.1\% | 10.3\% | 6.6\% | 1.0\% | -1.6\% |
| Health Care | 7.4\% | 7.5\% | 7.2\% | 7.7\% | 6.5\% | 14.5\% | 14.7\% | 15.5\% | 13.1\% | 15.2\% | 9.2\% | 2.7\% | 10.3\% | 12.6\% | 9.9\% | 10.5\% | 20.0\% | 15.0\% | 13.4\% | 12.6\% | 14.5\% | 6.8\% |
| Industrials | 10.4\% | 9.6\% | 7.8\% | 4.8\% | 4.8\% | 5.0\% | -0.3\% | 0.7\% | 2.0\% | 2.3\% | -7.4\% | -24.0\% | -15.6\% | -9.0\% | -11.2\% | -1.0\% | 28.8\% | 16.7\% | 13.5\% | 14.3\% | 12.8\% | 12.6\% |
| Industrials ex. BA | 6.4\% | 5.2\% | 3.8\% | 14.5\% | 7.6\% | -2.1\% | -12.1\% | -20.9\% | -27.8\% | -16.4\% | -26.5\% | -45.1\% | -29.5\% | -23.4\% | -31.2\% | -10.2\% | 44.3\% | 7.9\% | -6.8\% | 24.2\% | -8.5\% | 13.0\% |
| Industrials ex. Defense | 10.9\% | 9.5\% | 6.9\% | 3.9\% | 4.2\% | 3.6\% | -1.1\% | 0.2\% | 1.4\% | 1.5\% | -8.5\% | -26.8\% | -17.6\% | -10.6\% | -12.9\% | -1.7\% | 32.3\% | 19.0\% | 15.5\% | 15.7\% | 14.8\% | 14.5\% |
| Information Technology | 14.4\% | 12.8\% | 12.2\% | 1.9\% | 9.5\% | 0.4\% | -0.1\% | 2.1\% | 6.8\% | 2.7\% | 4.9\% | 6.0\% | 5.5\% | 11.7\% | 10.6\% | 22.6\% | 22.7\% | 19.3\% | 13.9\% | 15.4\% | 12.0\% | 7.4\% |
| Materials | 23.9\% | 27.7\% | 11.3\% | 15.2\% | 13.1\% | 0.0\% | -16.3\% | -13.5\% | -14.9\% | -7.5\% | -16.4\% | -14.8\% | -5.3\% | 3.0\% | -5.1\% | 12.0\% | 37.2\% | 31.3\% | 27.0\% | 23.4\% | 23.8\% | 15.7\% |
| Real Estate | 10.8\% | 9.6\% | 8.9\% | 8.5\% | 8.8\% | 5.2\% | 5.1\% | 6.0\% | 4.4\% | 5.0\% | 5.2\% | -6.2\% | -3.9\% | -2.9\% | -1.6\% | 1.4\% | 18.0\% | 15.9\% | 19.3\% | 9.4\% | 20.9\% | 13.3\% |
| Utilities | 6.3\% | 3.2\% | 5.3\% | 4.0\% | 3.5\% | 1.1\% | 1.1\% | 0.5\% | -0.7\% | 7.6\% | -6.3\% | -6.2\% | -3.1\% | -3.1\% | -4.4\% | 16.3\% | 10.7\% | 9.5\% | 27.3\% | 7.8\% | 8.6\% | 5.9\% |


|  | 2018 |  |  |  |  | 2019 |  |  |  |  | 2020 |  |  |  |  | 2021 |  |  |  |  | 20 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net margins | 1Q18 | 2Q18 | 3Q18 | 4Q18 | 2018 | 1 Q19 | 2Q19 | 3Q19 | 4Q19 | 2019 | 1 Q20 | 2Q20 | 3Q20 | 4Q20 | 2020 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | 2021 | 1 Q22 | 2 Q22 |
| S\&P 500 | 11.8\% | 11.9\% | 12.3\% | 11.9\% | 11.7\% | 11.3\% | 11.7\% | 12.0\% | 11.4\% | 11.3\% | 10.2\% | 9.0\% | 11.3\% | 11.7\% | 10.6\% | 13.5\% | 13.8\% | 13.6\% | 13.0\% | 13.3\% | 13.1\% | 13.4\% |
| S\&P 500 ex. Financials \& Real Est | 10.6\% | 10.8\% | 11.3\% | 11.1\% | 10.7\% | 10.1\% | 10.6\% | 11.1\% | 10.5\% | 10.3\% | 9.8\% | 8.7\% | 10.4\% | 10.4\% | 9.9\% | 11.9\% | 12.4\% | 12.6\% | 12.1\% | 12.0\% | 12.1\% | 12.6\% |
| S\&P 500 ex. Energy | 12.3\% | 12.4\% | 12.7\% | 12.3\% | 12.1\% | 11.9\% | 12.3\% | 12.5\% | 12.0\% | 11.9\% | 10.7\% | 9.8\% | 12.0\% | 12.4\% | 11.3\% | 14.2\% | 14.4\% | 14.0\% | 13.3\% | 13.7\% | 13.3\% | 13.4\% |
| S\&P 500 ex. Tech | 10.4\% | 10.5\% | 10.8\% | 10.4\% | 10.5\% | 10.2\% | 10.6\% | 10.7\% | 9.8\% | 10.1\% | 8.7\% | 7.4\% | 10.0\% | 9.9\% | 9.1\% | 12.0\% | 12.3\% | 12.1\% | 11.2\% | 11.8\% | 11.5\% | 12.1\% |
| S\&P ex. Energy, Fin \& Real Est | 11.0\% | 11.3\% | 11.7\% | 11.4\% | 11.1\% | 10.6\% | 11.1\% | 11.6\% | 11.1\% | 10.8\% | 10.4\% | 9.6\% | 11.2\% | 11.1\% | 10.6\% | 12.5\% | 12.9\% | 12.9\% | 12.3\% | 12.3\% | 12.3\% | 12.5\% |
| S\&P ex. Energy, Fin, Real Est, Healthcare | 11.1\% | 11.4\% | 11.8\% | 11.8\% | 11.2\% | 10.7\% | 11.2\% | 12.0\% | 11.5\% | 11.0\% | 10.5\% | 9.2\% | 11.4\% | 11.6\% | 10.8\% | 12.8\% | 13.4\% | 13.3\% | 12.9\% | 12.5\% | 12.4\% | 12.9\% |
| FANG (FB, AMZN, NFLX, Google) | 16.6\% | 10.8\% | 16.2\% | 14.2\% | 14.4\% | 11.2\% | 12.5\% | 11.9\% | 13.6\% | 12.4\% | 10.7\% | 12.2\% | 15.8\% | 15.7\% | 13.9\% | 18.9\% | 18.0\% | 15.4\% | 18.0\% | 17.7\% | 9.9\% | 12.6\% |
| FANG \& AAPL | 19.0\% | 14.7\% | 18.7\% | 18.1\% | 17.5\% | 14.3\% | 14.5\% | 15.2\% | 17.7\% | 15.5\% | 13.4\% | 14.2\% | 16.9\% | 19.3\% | 16.7\% | 21.4\% | 20.6\% | 18.2\% | 21.5\% | 20.1\% | 15.0\% | 15.7\% |
| S\&P ex FANG | 11.6\% | 11.9\% | 12.1\% | 11.8\% | 11.6\% | 11.3\% | 11.7\% | 12.0\% | 11.3\% | 11.3\% | 10.1\% | 8.8\% | 11.1\% | 11.4\% | 10.4\% | 13.2\% | 13.6\% | 13.5\% | 12.7\% | 13.1\% | 13.2\% | 13.4\% |
| S\&P ex FANG \& AAPL | 11.4\% | 11.8\% | 11.9\% | 11.5\% | 11.4\% | 11.1\% | 11.6\% | 11.8\% | 10.9\% | 11.1\% | 9.9\% | 8.6\% | 10.9\% | 10.9\% | 10.1\% | 12.8\% | 13.2\% | 13.2\% | 12.2\% | 12.7\% | 12.9\% | 13.2\% |
| S\&P ex. Energy \& Fin \& Real Est \& FANG | 10.8\% | 11.4\% | 11.5\% | 11.3\% | 10.9\% | 10.6\% | 11.0\% | 11.6\% | 11.0\% | 10.7\% | 10.4\% | 9.4\% | 10.9\% | 10.8\% | 10.4\% | 12.1\% | 12.6\% | 12.7\% | 11.9\% | 11.9\% | 12.5\% | 12.4\% |
| Communication Services | 16.7\% | 14.2\% | 16.7\% | 15.2\% | 15.6\% | 13.9\% | 15.3\% | 15.1\% | 16.1\% | 15.1\% | 13.9\% | 13.9\% | 15.8\% | 16.8\% | 15.2\% | 19.0\% | 18.8\% | 18.0\% | 17.3\% | 18.3\% | 16.9\% | 16.2\% |
| Consumer Discretionary | 6.7\% | 7.9\% | 8.6\% | 7.1\% | 7.5\% | 6.9\% | 7.5\% | 8.0\% | 6.9\% | 7.1\% | 3.3\% | 3.1\% | 7.5\% | 6.3\% | 5.2\% | 8.1\% | 8.2\% | 7.6\% | 8.0\% | 7.8\% | 5.4\% | 7.0\% |
| Multiline \& Specialty Retail | 6.6\% | 8.0\% | 6.8\% | 7.1\% | 7.9\% | 6.7\% | 7.9\% | 6.9\% | 7.0\% | 8.2\% | 3.8\% | 8.4\% | 8.1\% | 7.1\% | 8.9\% | 8.8\% | 9.6\% | 8.4\% | 7.2\% | 12.2\% | 8.1\% | 8.5\% |
| Consumer Staples | 7.2\% | 7.9\% | 8.0\% | 7.6\% | 7.6\% | 7.1\% | 7.8\% | 7.9\% | 7.5\% | 7.5\% | 7.1\% | 7.4\% | 8.0\% | 7.6\% | 7.4\% | 7.5\% | 7.8\% | 7.7\% | 7.3\% | 7.6\% | 7.3\% | 7.3\% |
| Energy | 6.4\% | 6.5\% | 7.9\% | 7.9\% | 7.3\% | 4.8\% | 5.9\% | 5.6\% | 4.7\% | 5.4\% | 3.8\% | -9.2\% | -0.9\% | -0.3\% | -0.9\% | 4.5\% | 6.5\% | 9.1\% | 9.7\% | 8.3\% | 10.7\% | 13.6\% |
| Financials | 18.5\% | 17.7\% | 17.7\% | 16.2\% | 17.5\% | 18.1\% | 18.0\% | 16.6\% | 16.0\% | 17.2\% | 10.7\% | 9.5\% | 16.1\% | 19.2\% | 13.9\% | 23.2\% | 22.6\% | 19.6\% | 18.8\% | 21.8\% | 18.4\% | 18.1\% |
| Financials ex. BAC, C \& JPM | 16.4\% | 15.6\% | 15.5\% | 14.0\% | 15.3\% | 15.8\% | 15.5\% | 14.5\% | 13.4\% | 14.7\% | 10.6\% | 9.0\% | 14.2\% | 16.5\% | 12.6\% | 19.6\% | 19.5\% | 16.9\% | 16.9\% | 19.0\% | 17.0\% | 16.3\% |
| Health Care | 10.8\% | 10.9\% | 11.0\% | 10.1\% | 10.6\% | 10.4\% | 10.7\% | 10.4\% | 9.8\% | 10.1\% | 10.0\% | 11.0\% | 10.5\% | 9.6\% | 10.0\% | 11.9\% | 11.6\% | 11.7\% | 10.7\% | 11.5\% | 12.0\% | 11.1\% |
| Industrials | 9.2\% | 10.6\% | 10.5\% | 10.1\% | 10.4\% | 9.2\% | 9.4\% | 10.4\% | 8.8\% | 9.7\% | 7.2\% | 2.3\% | 6.0\% | 6.6\% | 5.6\% | 6.7\% | 9.2\% | 9.3\% | 8.0\% | 8.3\% | 8.1\% | 10.7\% |
| Industrials ex. BA | 9.3\% | 10.8\% | 10.7\% | 10.1\% | 10.2\% | 9.4\% | 11.0\% | 10.9\% | 9.8\% | 10.6\% | 8.0\% | 3.5\% | 6.6\% | 7.7\% | 6.7\% | 7.4\% | 9.6\% | 9.9\% | 9.6\% | 9.4\% | 8.9\% | 11.2\% |
| Industrials ex. Defense | 9.2\% | 10.7\% | 10.4\% | 10.2\% | 10.4\% | 9.1\% | 9.4\% | 10.4\% | 8.7\% | 9.6\% | 6.9\% | 1.3\% | 5.5\% | 6.1\% | 5.0\% | 6.3\% | 9.1\% | 9.5\% | 7.7\% | 8.2\% | 7.9\% | 10.7\% |
| Information Technology | 23.9\% | 24.1\% | 24.8\% | 23.6\% | 22.6\% | 21.7\% | 22.1\% | 22.9\% | 24.1\% | 21.8\% | 22.4\% | 20.9\% | 22.4\% | 24.3\% | 22.1\% | 24.8\% | 25.4\% | 25.6\% | 26.1\% | 24.6\% | 25.1\% | 23.8\% |
| Materials | 9.1\% | 10.2\% | 4.3\% | 8.3\% | 8.9\% | 7.7\% | 11.4\% | 10.5\% | 9.5\% | 9.2\% | 9.0\% | 8.7\% | 9.6\% | 10.3\% | 9.2\% | 11.8\% | 14.7\% | 13.5\% | 13.0\% | 13.6\% | 13.7\% | 15.2\% |
| Real Estate | 33.8\% | 34.3\% | 33.4\% | 33.6\% | 34.0\% | 34.3\% | 33.8\% | 33.8\% | 32.9\% | 33.8\% | 33.0\% | 32.8\% | 34.0\% | 35.0\% | 33.9\% | 35.7\% | 36.9\% | 35.6\% | 33.4\% | 36.7\% | 36.2\% | 34.6\% |
| Utilities | 12.9\% | 12.1\% | 15.3\% | 9.1\% | 12.5\% | 13.2\% | 12.6\% | 16.8\% | 11.2\% | 12.8\% | 15.1\% | 14.6\% | 17.7\% | 11.4\% | 13.8\% | 13.0\% | 15.0\% | 18.1\% | 9.0\% | 13.7\% | 15.3\% | 12.6\% |

Source: Factset, DWS Investment GmbH as of $7 / 5 / 2022$. Past performance may not be indicative of future results.

DWS Investment GmbH S\&P 500 Annual EPS Outlook

|  |  |  |  |  |  |  |  |  |  | Bottom-up Consensus (IBES) |  |  |  | DWS View |  |  |  | Normalized 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2014A | 2015A | 2016A | 2017A | 2018A | 2019A | 2020A | 2021A | y/y | 2022E | y/y | 2023E | y/y | 2022E | y/y | 2023E | y/y | (\$) | $\begin{aligned} & \hline \% \text { of } \\ & 2022 \end{aligned}$ |
| S\&P 500 EPS (historical index) | \$118.82 | \$117.46 | \$118.10 | \$132.00 | \$161.93 | \$162.93 | \$139.72 | \$208.12 | 49.0\% |  |  |  |  |  |  |  |  |  |  |
| S\&P 500 EPS (current constituents) | \$115.97 | \$116.52 | \$116.71 | \$129.34 | \$156.09 | \$161.45 | \$143.39 | \$208.21 | 46.7\% | \$228.67 | 9.8\% | \$248.39 | 8.6\% | \$225 | 7.5\% | \$235 | 4.1\% | \$225 | 100\% |
| Sector (\$ bn) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Communication Services | 65.7 | 75.5 | 88.1 | 100.4 | 125.8 | 133.4 | 137.7 | 189.4 | 37.6\% | 184.0 | -2.9\% | 210.1 | 14.1\% | 187.0 | -1.3\% | 203.5 | 8.8\% | 187.0 | 100\% |
| Consumer Discretionary | 64.5 | 75.3 | 83.9 | 88.1 | 103.8 | 102.0 | 79.6 | 134.9 | 69.3\% | 148.7 | 10.3\% | 180.8 | 21.6\% | 151.0 | 12.0\% | 161.5 | 7.0\% | 154.3 | 102\% |
| Automobiles | 9.6 | 15.4 | 16.0 | 15.5 | 14.1 | 11.5 | 10.3 | 22.1 | 114\% | 26.6 | 20.2\% | 29.3 | 10.3\% | 23.0 | 4.1\% | 25.0 | 8.7\% |  |  |
| Internet \& Direct Marketing Retail | 5.6 | 6.2 | 8.1 | 8.6 | 16.2 | 17.7 | 20.0 | 23.9 | 19.9\% | 21.1 | -12.0\% | 32.9 | 56.0\% | 25.0 | 4.4\% | 27.5 | 10.0\% |  |  |
| CD ex Auto \& Internet Retail | 49.3 | 53.7 | 59.8 | 63.9 | 73.5 | 72.8 | 49.3 | 88.8 | 80.0\% | 101.1 | 13.8\% | 118.7 | 17.4\% | 103.0 | 16.0\% | 109.0 | 5.8\% |  |  |
| Consumer Staples | 77.5 | 75.9 | 78.2 | 82.4 | 89.2 | 89.6 | 93.4 | 102.7 | 9.9\% | 106.7 | 3.9\% | 114.7 | 7.5\% | 105.8 | 3.0\% | 109.0 | 3.1\% | 105.8 | 100\% |
| Energy | 95.9 | 40.0 | 10.8 | 37.7 | 71.1 | 50.3 | -5.7 | 79.2 | 1490\% | 173.0 | 118.4\% | 152.1 | -12.1\% | 125.0 | 57.8\% | 100.0 | -20.0\% | 101.0 | 81\% |
| Financials | 171.4 | 186.3 | 188.0 | 195.4 | 242.2 | 249.2 | 198.7 | 328.5 | 65.4\% | 288.1 | -12.3\% | 327.8 | 13.8\% | 300.0 | -8.7\% | 320.5 | 6.8\% | 300.0 | 100\% |
| Health Care | 137.9 | 153.1 | 158.1 | 172.3 | 189.4 | 207.5 | 227.4 | 294.3 | 29.4\% | 308.3 | 4.8\% | 308.4 | 0.0\% | 310.0 | 5.3\% | 320.7 | 3.5\% | 310.0 | 100\% |
| Industrials | 99.9 | 103.8 | 97.5 | 106.1 | 129.5 | 123.7 | 63.4 | 108.1 | 70.5\% | 145.8 | 34.9\% | 171.6 | 17.6\% | 140.5 | 30.0\% | 155.0 | 10.3\% | 150.9 | 107\% |
| Airlines | 10.9 | 17.6 | 13.3 | 10.9 | 11.5 | 13.2 | -28.8 | -14.2 | 50.5\% | 3.4 | 123.6\% | 9.3 | 177.8\% | 3.0 | 121.1\% | 6.0 | 100.0\% |  |  |
| Information Technology | 177.1 | 184.3 | 193.9 | 228.7 | 266.8 | 265.0 | 297.5 | 380.7 | 28.0\% | 418.8 | 10.0\% | 471.7 | 12.6\% | 425.0 | 11.6\% | 452.5 | 6.5\% | 425.0 | 100\% |
| Materials | 24.6 | 23.7 | 22.5 | 28.3 | 35.2 | 33.6 | 31.9 | 58.2 | 82.3\% | 68.9 | 18.3\% | 64.5 | -6.3\% | 63.0 | 8.2\% | 57.5 | -8.7\% | 55.0 | 87\% |
| Real Estate | 23.1 | 26.3 | 29.2 | 31.6 | 34.6 | 36.2 | 35.6 | 42.2 | 18.4\% | 44.9 | 6.3\% | 47.8 | 6.5\% | 42.5 | 0.7\% | 44.0 | 3.5\% | 42.5 | 100\% |
| Utilities | 31.3 | 31.6 | 33.8 | 35.3 | 38.9 | 42.9 | 44.2 | 47.2 | 6.8\% | 48.2 | 2.1\% | 51.8 | 7.4\% | 48.5 | 2.7\% | 51.5 | 6.1\% | 48.5 | 100\% |
| S\&P 500 (\$ bn) | 969.0 | 975.6 | 983.9 | 1106.4 | 1326.5 | 1333.4 | 1203.8 | 1765.5 | 46.7\% | 1935.4 | 9.6\% | 2101.2 | 8.6\% | 1898.3 | 7.5\% | 1975.6 | 4.1\% | 1879.9 | 99\% |
| S\&P ex. Energy (\$bn) | 873.0 | 935.7 | 973.1 | 1068.7 | 1255.4 | 1283.1 | 1209.5 | 1686.3 | 39.4\% | 1762.4 | 4.5\% | 1949.2 | 10.6\% | 1773.3 | 5.2\% | 1875.6 | 5.8\% | 1778.9 | 100\% |
| S\&P ex. Tech (\$bn) | 791.9 | 791.4 | 790.0 | 877.6 | 1059.7 | 1068.4 | 906.3 | 1384.8 | 52.8\% | 1516.7 | 9.5\% | 1629.6 | 7.4\% | 1473.3 | 6.4\% | 1523.1 | 3.4\% | 1454.9 | 99\% |
| S\&P 500 Sales/Share (historical index) | \$1,163 | \$1,127 | \$1,151 | \$1,232 | \$1,339 | \$1,415 | \$1,362 | \$1,567 | 15.0\% |  |  |  |  |  |  |  |  |  |  |
| S\&P 500 Non-GAAP Net Margin | 10.2\% | 10.4\% | 10.3\% | 10.7\% | 12.1\% | 11.5\% | 10.3\% | 13.3\% |  |  |  |  |  |  |  |  |  |  |  |


| S\&P 500 EPS | Year | $1 Q$ | $2 Q$ | $3 Q$ | $4 Q$ |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 2019A | $\mathbf{1 6 3}$ | 39 | 41 | 41 | 42 |
| 2020A | $\mathbf{1 4 0}$ | 33 | 28 | 38 | 42 |
| 2021E | $\mathbf{2 1 0}$ | 49 | 53 | 54 | 54 |
| 2022E | $\mathbf{2 2 5}$ | 55 | 55 | 56 | 59 |
| 2023E | $\mathbf{2 3 5}$ | 57 | 58 | 59 | 61 |

[^5]S\&P 5002022 and 2023 EPS outlook scenarios

| Current S\&P EPS outlook |  |  |  |  | Increasing liklihood |  |  |  | Material possibility |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stalled growth or slight recession |  |  |  |  | Small recession 4Q22/1Q23 |  |  |  | Medium US \& EU recessions 2023 |  |  |  |
| 4\% CPI 2023, oil \$110/bbl, euro \$1.10 |  |  |  |  | 3-4\% CPI 2023, oil \$100/bbl, euro \$1.05 |  |  |  | <3\% CPI, oil \$80/bbl, euro \$1.00 |  |  |  |
| 2022 | ear | annualized |  | x18 | EPS year qtrly annualized |  |  |  | EPS year | qtrly | annualized x 18 |  |
|  | 225 | 55 | 220 | 3960 | 220 | 55 | 220 | 3960 | 217 | 55 | 220 | 3960 |
|  |  | 55 | 220 | 3960 |  | 56 | 224 | 4032 |  | 56 | 224 | 4032 |
| 2023 |  | 56 | 224 | 4032 |  | 54 | 216 | 3888 |  | 53 | 212 | 3816 |
|  |  | 59 | 236 | 4248 |  | 55 | 220 | 3960 |  | 53 | 212 | 3816 |
|  | 235 | 57 | 228 | 4104 | 220 | 52 | 208 | 3744 | 213 | 50 | 200 | 3600 |
|  |  | 58 | 232 | 4176 |  | 54 | 216 | 3888 |  | 52 | 208 | 3744 |
|  |  | 59 | 236 | 4248 |  | 56 | 224 | 4032 |  | 54 | 216 | 3888 |
|  |  | 61 | 244 | 4392 |  | 58 | 232 | 4176 |  | 57 | 228 | 4104 |

[^6]DWS Investment GmbH View: S\&P 500 fair value by sector: Assuming a $\sim 5.50 \%$ real cost of equity (CoE) for overall S\&P 500

|  | Market Value (\$bn) | $\begin{gathered} \text { Current } \\ 2022 \\ \text { PE } \end{gathered}$ | 2022E <br> Earnings (\$bn) | Normal Ratio | Normal 2022E Earnings | Accounting Quality Adjustment | Fully <br> Adjusted Earnings | Net Debt / Market Cap | Real CoE | Steady <br> State <br> Value | Growth Premium | 2022 Start <br> Fair Value (\$bn) | 2021E <br> Dividend Yield | 2022 End <br> Fair Value (\$bn) | PE on Normal 2022E EPS | 2022 end Upside \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Communication Services | 2,900 | 15.5 | 187.0 | 100\% | 187.0 | -8\% | 172.0 | 16\% | 5.50\% | 3,128 | -5\% | 2,972 | 1.5\% | 3,180 | 17.0 | 10\% |
| Consumer Disc. | 3,602 | 23.9 | 151.0 | 102\% | 154.3 | -8\% | 141.9 | 14\% | 5.50\% | 2,580 | 24\% | 3,200 | 1.0\% | 3,440 | 22.3 | -4\% |
| Automobiles | 693 | 30.1 | 23.0 | 105\% | 24.2 | -10\% | 21.7 | 23\% | 6.00\% | 362 | 50\% | 543 | 0.2\% | 591 | 24.5 | -15\% |
| Internet \& Direct Marketing Retail | 1,114 | 44.5 | 25.0 | 100\% | 25.0 | -5\% | 23.8 | 1\% | 5.50\% | 432 | 125\% | 972 | 0.1\% | 1,054 | 42.1 | -5\% |
| CD ex Auto \& Internet Retail | 1,795 | 17.4 | 103.0 | 100\% | 103.0 | -10\% | 92.7 | 18\% | 5.50\% | 1,685 | 0\% | 1,685 | 1.8\% | 1,798 | 17.5 | 0\% |
| Consumer Staples | 2,235 | 21.1 | 105.8 | 100\% | 105.8 | -5\% | 100.5 | 14\% | 4.75\% | 2,115 | -3\% | 2,052 | 2.5\% | 2,159 | 20.4 | -3\% |
| Energy | 1,323 | 10.6 | 125.0 | 81\% | 101.0 | -10\% | 90.9 | 18\% | 6.00\% | 1,515 | -15\% | 1,288 | 4.2\% | 1,350 | 13.4 | 2\% |
| Financials | 3,568 | 11.9 | 300.0 | 100\% | 300.0 | -8\% | 276.0 |  | 6.50\% | 4,246 | -5\% | 4,034 | 2.1\% | 4,332 | 14.4 | 21\% |
| Banks | 1,232 | 9.5 | 130.0 | 100\% | 130.0 | -8\% | 119.6 |  | 7.00\% | 1,709 | -5\% | 1,623 | 3.4\% | 1,730 | 13.3 | 40\% |
| Health Care | 4,944 | 15.9 | 310.0 | 100\% | 310.0 | -10\% | 279.0 | 10\% | 5.25\% | 5,314 | 0\% | 5,314 | 1.5\% | 5,670 | 18.3 | 15\% |
| Industrials | 2,554 | 18.2 | 140.5 | 107\% | 150.9 | -8\% | 138.9 | 21\% | 5.50\% | 2,525 | 0\% | 2,525 | 1.5\% | 2,702 | 17.9 | 6\% |
| Technology | 8,887 | 20.9 | 425.0 | 100\% | 425.0 | -5\% | 403.8 | 3\% | 5.50\% | 7,341 | 10\% | 8,075 | 1.0\% | 8,678 | 20.4 | -2\% |
| Materials | 825 | 13.1 | 63.0 | 87\% | 55.0 | -10\% | 49.5 | 18\% | 5.75\% | 860 | -5\% | 817 | 2.1\% | 871 | 15.9 | 6\% |
| Real Estate | 871 | 20.5 | 42.5 | 100\% | 42.5 | -7\% | 39.5 | 32\% | 4.50\% | 878 | 0\% | 878 | 3.1\% | 917 | 21.6 | 5\% |
| Utilities | 978 | 20.2 | 48.5 | 100\% | 48.5 | -10\% | 43.7 | 65\% | 4.50\% | 970 | 0\% | 970 | 3.1\% | 1,013 | 20.9 | 4\% |
| S\&P 500 (\$ bn) | 32,688 |  | 1898.3 | 99\% | 1879.9 | -7.7\% | 1735.6 |  | 5.49\% | 31472.9 | 2.1\% | 32124.8 | 1.7\% | 34312.1 |  | 5\% |
| S\&P 500 Index (\$/sh) | 3863 | 17.2 | 225.0 | 100\% | 225.0 | -8.0\% | 207.0 | 12\% | 5.50\% | 3764 | 0.0\% | 3764 | 1.7\% | 4021 | 17.9 | 4\% |


|  | $>5 \%$ |
| :--- | :--- |
|  | between $-5 \%$ and $5 \%$ |
| $<-5 \%$ |  |

[^7]
## S\&P 500 Intrinsic Valuation Model



Source: DWS Investment Management GmbH

S\&P 500 companies with 20\%+ revenue exposure in Europe (table 1 of 2)

| Ticker | Company Name | Sector | Industry | US | Foreign | Europe | UK | Asia | China | Japan | LatAm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BKNG | Booking Holdings, Inc. | Consumer Discretionary | Hotels Restaurants \& Leisure | 13.1\% | 86.9\% | 81.7\% | 0.3\% | 3.7\% | 1.9\% | 0.6\% | 0.5\% |
| NEM | Newmont Corp. | Materials | Metals \& Mining | 0.5\% | 99.5\% | 73.9\% | 68.8\% | 19.9\% | 0.6\% | 3.2\% | 5.3\% |
| PVH | PVH Corp. | Consumer Discretionary | Textiles Apparel \& Luxury Goods | 31.6\% | 68.4\% | 48.0\% | 3.0\% | 15.9\% | 3.6\% | 2.0\% | 0.4\% |
| PM | Philip Morris International, lı | Consumer Staples | Tobacco | 0.3\% | 99.7\% | 47.6\% | 5.7\% | 33.0\% | 2.7\% | 14.6\% | 4.2\% |
| DXC | DXC Technology Co. | Information Technology | IT Services | 29.4\% | 70.6\% | 45.6\% | 14.1\% | 20.4\% | 5.7\% | 1.8\% | 1.6\% |
| SEDG | SolarEdge Technologies, Inc. | Information Technology | Semiconductors \& Semiconductoı | 40.0\% | 60.0\% | 45.4\% | 4.7\% | 10.3\% | 5.2\% | 1.6\% | 1.4\% |
| WST | West Pharmaceutical Service | Health Care | Life Sciences Tools \& Services | 42.3\% | 57.7\% | 45.1\% | 2.4\% | 8.9\% | 4.5\% | 1.4\% | 1.2\% |
| MCD | McDonald's Corp. | Consumer Discretionary | Hotels Restaurants \& Leisure | 38.2\% | 61.8\% | 44.7\% | 8.1\% | 10.0\% | 3.1\% | 1.0\% | 0.8\% |
| LKQ | LKQ Corp. | Consumer Discretionary | Distributors | 50.6\% | 49.4\% | 43.3\% | 12.6\% | 3.4\% | 0.0\% | 0.0\% | 1.1\% |
| CCL | Carnival Corp. | Consumer Discretionary | Hotels Restaurants \& Leisure | 47.7\% | 52.3\% | 42.5\% | 4.9\% | 0.9\% | 0.2\% | 0.2\% | 0.2\% |
| ALGN | Align Technology, Inc. | Health Care | Health Care Equipment \& Supplie: | 43.6\% | 56.4\% | 40.7\% | 0.9\% | 11.7\% | 7.0\% | 1.5\% | 1.3\% |
| PTC | PTC, Inc. | Information Technology | Software | 41.0\% | 59.0\% | 40.0\% | 3.9\% | 17.6\% | 4.1\% | 3.4\% | 0.9\% |
| MDLZ | Mondelez International, Inc. | Consumer Staples | Food Products | 24.9\% | 75.1\% | 38.8\% | 3.6\% | 14.7\% | 3.9\% | 2.0\% | 9.7\% |
| MRNA | Moderna, Inc. | Health Care | Biotechnology | 33.4\% | 66.6\% | 37.1\% | 4.3\% | 20.9\% | 10.5\% | 3.3\% | 3.0\% |
| CE | Celanese Corp. | Materials | Chemicals | 23.5\% | 76.5\% | 37.0\% | 0.2\% | 33.9\% | 19.0\% | 0.3\% | 4.0\% |
| EBAY | eBay, Inc. | Consumer Discretionary | Internet \& Direct Marketing Retai | 48.4\% | 51.6\% | 35.7\% | 18.4\% | 11.2\% | 5.6\% | 1.8\% | 1.6\% |
| VTRS | Viatris, Inc. | Health Care | Pharmaceuticals | 23.4\% | 76.6\% | 35.4\% | 5.0\% | 30.1\% | 11.6\% | 8.5\% | 1.4\% |
| BWA | BorgWarner, Inc. | Consumer Discretionary | Auto Components | 16.8\% | 83.2\% | 35.1\% | 5.5\% | 34.0\% | 23.7\% | 1.0\% | 12.4\% |
| BIIB | Biogen, Inc. | Health Care | Biotechnology | 53.1\% | 46.9\% | 34.6\% | 3.9\% | 6.6\% | 1.5\% | 1.3\% | 1.9\% |
| TEL | TE Connectivity Ltd. | Information Technology | Electronic Equipment Instruments | 24.2\% | 75.8\% | 34.0\% | 1.2\% | 36.0\% | 22.5\% | 2.5\% | 2.2\% |
| EPAM | EPAM Systems, Inc. | Information Technology | IT Services | 56.6\% | 43.4\% | 33.5\% | 12.6\% | 5.0\% | 1.8\% | 1.0\% | 0.9\% |
| MSCl | MSCl, Inc. | Financials | Capital Markets | 41.0\% | 59.0\% | 33.4\% | 16.9\% | 15.7\% | 4.1\% | 4.5\% | 3.0\% |
| ACN | Accenture Plc | Information Technology | IT Services | 45.0\% | 55.0\% | 33.1\% | 1.6\% | 9.1\% | 1.7\% | 1.1\% | 3.8\% |
| CTLT | Catalent, Inc. | Health Care | Pharmaceuticals | 60.2\% | 39.8\% | 32.8\% | 3.8\% | 5.0\% | 2.5\% | 0.8\% | 0.6\% |
| COO | The Cooper Cos., Inc. | Health Care | Health Care Equipment \& Supplie: | 45.8\% | 54.2\%\| | 32.8\% | 3.8\% | 15.1\% | 7.6\% | 2.4\% | 2.1\% |
| NCLH | Norwegian Cruise Line Holdi | Consumer Discretionary | Hotels Restaurants \& Leisure | 57.0\% | 43.0\% | 32.7\% | 3.8\% | 1.0\% | 0.2\% | 0.2\% | 0.3\% |
| BIO | Bio-Rad Laboratories, Inc. | Health Care | Life Sciences Tools \& Services | 38.7\% | 61.3\% | 32.4\% | 3.7\% | 23.6\% | 5.5\% | 4.5\% | 3.8\% |
| MMC | Marsh \& McLennan Cos., Inc | Financials | Insurance | 47.0\% | 53.0\% | 31.9\% | 15.7\% | 13.2\% | 2.1\% | 1.2\% | 2.7\% |
| MHK | Mohawk Industries, Inc. | Consumer Discretionary | Household Durables | 55.2\% | 44.8\%\| | 31.9\%\| | 3.6\% | 8.6\% | 3.5\% | 1.7\% | 1.5\% |
| ADM | Archer-Daniels-Midland Co. | Consumer Staples | Food Products | 41.5\% | 58.5\% | 31.7\% | 2.2\% | 8.5\% | 2.2\% | 1.6\% | 14.5\% |
| ETSY | Etsy, Inc. | Consumer Discretionary | Internet \& Direct Marketing Retai | 59.8\% | 40.2\% | 31.7\% | 14.1\% | 3.9\% | 0.0\% | 0.0\% | 0.0\% |
| BLK | BlackRock, Inc. | Financials | Capital Markets | 49.3\% | 50.7\% | 31.5\% | 13.8\% | 4.5\% | 0.2\% | 3.1\% | 10.6\% |
| TRMB | Trimble, Inc. | Information Technology | Electronic Equipment Instruments | 50.3\% | 49.7\% \| | 30.7\%\| | 3.2\% | 12.2\% | 4.8\% | 1.8\% | 2.4\% |
| WTW | Willis Towers Watson Plc | Financials | Insurance | 51.4\% | 48.6\% | 30.7\% | 18.1\% | 9.6\% | 1.9\% | 1.4\% | 2.9\% |
| FCX | Freeport-McMoRan, Inc. | Materials | Metals \& Mining | 31.4\% | 68.6\% | 30.4\% | 2.9\% | 32.9\% | 4.6\% | 10.4\% | 2.4\% |
| AON | Aon Plc | Financials | Insurance | 44.8\% | 55.2\% | 30.3\% | 13.8\% | 10.9\% | 2.5\% | 2.1\% | 6.0\% |
| AVY | Avery Dennison Corp. | Materials | Containers \& Packaging | 24.6\% | 75.4\%\| | 30.2\%\| | 3.5\% | 34.7\% | 26.2\% | 2.1\% | 6.3\% |
| ZBRA | Zebra Technologies Corp. | Information Technology | Electronic Equipment Instruments | 49.5\% | 50.5\% | 29.9\% | 2.2\% | 9.6\% | 2.2\% | 1.8\% | 5.1\% |
| AMGN | Amgen, Inc. | Health Care | Biotechnology | 70.0\% | 30.0\% | 29.5\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| OMC | Omnicom Group, Inc. | Communication Services | Media | 50.7\% | 49.3\% | 29.5\% | 10.6\% | 12.6\% | 7.3\% | 2.3\% | 2.2\% |
| CRL | Charles River Laboratories In | Health Care | Life Sciences Tools \& Services | 54.6\% | 45.4\%\| | 29.3\%\| | 3.4\% | 6.3\% | 3.7\% | 1.2\% | 0.2\% |
| EL | The Estée Lauder Companies | Consumer Staples | Personal Products | 20.2\% | 79.8\% | 29.0\% | 2.8\% | 35.2\% | 35.2\% | 0.0\% | 1.9\% |
| XYL | Xylem, Inc. | Industrials | Machinery | 43.9\% | 56.1\% | 29.0\% | 4.3\% | 21.3\% | 8.3\% | 6.2\% | 2.3\% |
| LIN | Linde Plc | Materials | Chemicals | 29.6\% | 70.4\% | 28.8\% | 6.7\% | 25.4\% | 8.3\% | 4.6\% | 8.6\% |
| DHR | Danaher Corp. | Health Care | Life Sciences Tools \& Services | 39.5\% | 60.5\%\| | 28.7\% | 4.6\% | 19.2\% | 13.5\% | 0.6\% | 3.9\% |
| MTD | Mettler-Toledo Internationa | Health Care | Life Sciences Tools \& Services | 32.7\% | 67.3\% | 28.6\% | 2.4\% | 28.6\% | 20.3\% | 1.5\% | 3.9\% |
| ICE | Intercontinental Exchange, II | Financials | Capital Markets | 67.6\% | 32.4\% | 28.6\% | 4.4\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% |
| TMO | Thermo Fisher Scientific, Inc. | Health Care | Life Sciences Tools \& Services | 48.2\% | 51.8\% | 28.4\% | 1.7\% | 18.4\% | 8.8\% | 1.7\% | 1.2\% |
| IQV | IQVIA Holdings, Inc. | Health Care | Life Sciences Tools \& Services | 34.0\% | 66.0\% | 28.4\% | 0.0\% | 19.2\% | 4.5\% | 3.7\% | 11.0\% |
| AMCR | Amcor Plc | Materials | Containers \& Packaging | 43.3\% | 56.7\% | 28.4\% | 4.2\% | 12.3\% | 7.6\% | 0.0\% | 11.0\% |
| WAT | Waters Corp. | Health Care | Life Sciences Tools \& Services | 27.8\% | 72.2\% | 28.2\% | 3.3\% | 38.6\% | 18.7\% | 6.6\% | 3.9\% |
| CARR | Carrier Global Corp. | Industrials | Building Products | 50.9\% | 49.1\% | 28.0\% | 3.2\% | 16.8\% | 3.9\% | 3.2\% | 1.4\% |
| XRAY | Dentsply Sirona, Inc. | Health Care | Health Care Equipment \& Supplie: | 35.1\% | 64.9\%\| | 27.9\% | 2.6\% | 25.4\% | 11.4\% | 4.5\% | 4.0\% |
| MTCH | Match Group, Inc. | Communication Services | Interactive Media \& Services | 45.7\% | 54.3\% | 27.5\% | 3.2\% | 16.3\% | 8.3\% | 2.6\% | 3.6\% |
| OGN | Organon \& Co. | Health Care | Pharmaceuticals | 21.9\% | 78.1\% | 27.2\% | 3.4\% | 33.4\% | 24.2\% | 3.0\% | 4.7\% |
| PCAR | PACCAR, Inc. | Industrials | Machinery | 52.7\% | 47.3\% | 26.9\% | 3.1\% | 14.5\% | 7.3\% | 2.3\% | 2.0\% |
| ADSK | Autodesk, Inc. | Information Technology | Software | 33.2\% | 66.8\% | 26.8\% | 2.6\% | 21.0\% | 4.9\% | 4.0\% | 5.0\% |
| LYB | LyondellBasell Industries NV | Materials | Chemicals | 48.8\% | 51.2\% | 26.8\% | 1.7\% | 14.2\% | 5.0\% | 3.1\% | 5.3\% |
| A | Agilent Technologies, Inc. | Health Care | Life Sciences Tools \& Services | 34.2\% | 65.8\% | 26.7\% | 3.1\% | 35.2\% | 20.1\% | 4.8\% | 2.7\% |
| XOM | Exxon Mobil Corp. | Energy | Oil Gas \& Consumable Fuels | 37.7\% | 62.3\% | 26.6\% | 5.3\% | 19.2\% | 2.5\% | 2.0\% | 3.4\% |
| FTNT | Fortinet, Inc. | Information Technology | Software | 30.1\% | 69.9\% | 26.4\% | 2.5\% | 21.2\% | 4.9\% | 4.0\% | 7.5\% |
| ATVI | Activision Blizzard, Inc. | Communication Services | Entertainment | 49.0\% | 51.0\% | 26.4\% | 11.0\% | 12.2\% | 2.8\% | 2.3\% | 5.0\% |
| ABT | Abbott Laboratories | Health Care | Health Care Equipment \& Supplie: | 38.6\% | 61.4\% | 26.2\% | 2.9\% | 20.8\% | 5.6\% | 3.9\% | 4.5\% |
| NDSN | Nordson Corp. | Industrials | Machinery | 33.4\% | 66.6\% | 26.1\% | 2.9\% | 32.8\% | 5.3\% | 4.6\% | 5.3\% |

Source: Factset, DWS Investment GmbH as of 7/7/2022. Past performance may not be indicative of future results.

## S\&P 500 companies with $20 \%+$ revenue exposure in Europe (table 2 of 2)

| Ticker | Company Name | Sector | Industry | US | Foreign | Europe | UK | Asia | China | Japan | LatAm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FDS | FactSet Research Systems, Ir | Financials | Capital Markets | 59.8\% | 40.2\% | 26.1\% | 11.9\% | 9.8\% | 2.3\% | 1.9\% | 2.4\% |
| VRTX | Vertex Pharmaceuticals, Inc. | Health Care | Biotechnology | 69.8\% | 30.2\% | 26.1\% | 3.0\% | 2.9\% | 1.5\% | 0.5\% | 0.3\% |
| BKR | Baker Hughes Co. | Energy | Energy Equipment \& Services | 21.9\% | 78.1\%\| | 25.9\% | 3.4\% | 36.9\% | 18.6\% | 5.9\% | 5.3\% |
| GRMN | Garmin Ltd. | Consumer Discretionary | Household Durables | 14.9\% | 85.1\% | 25.8\% | 2.5\% | 15.5\% | 3.6\% | 3.0\% | 24.7\% |
| HPE | Hewlett Packard Enterprise (I | ( Information Technology | Technology Hardware Storage \& F | 31.9\% | 68.1\% | 25.7\% | 2.5\% | 24.4\% | 5.7\% | 4.7\% | 4.7\% |
| HWM | Howmet Aerospace, Inc. | Industrials | Aerospace \& Defense | 51.1\% | 48.9\% | 25.4\% | 4.3\% | 12.2\% | 1.4\% | 6.4\% | 5.9\% |
| PFE | Pfizer Inc. | Health Care | Pharmaceuticals | 36.6\% | 63.4\% | 25.3\% | 3.6\% | 26.7\% | 9.1\% | 9.0\% | 3.7\% |
| IEX | IDEX Corp. | Industrials | Machinery | 48.4\% | 51.6\% | 25.3\% | 2.6\% | 18.5\% | 4.5\% | 3.8\% | 1.1\% |
| WAB | Westinghouse Air Brake Tecl | I Industrials | Machinery | 42.5\% | 57.5\% | 25.3\% | 3.8\% | 16.2\% | 2.9\% | 0.8\% | 6.7\% |
| JNJ | Johnson \& Johnson | Health Care | Pharmaceuticals | 50.3\% | 49.7\% | 25.2\% | 2.9\% | 16.3\% | 3.5\% | 3.0\% | 4.3\% |
| CTXS | Citrix Systems, Inc. | Information Technology | Software | 50.3\% | 49.7\% | 24.3\% | 2.3\% | 9.7\% | 2.3\% | 1.9\% | 3.5\% |
| NFLX | Netflix, Inc. | Communication Services | Entertainment | 40.7\% | 59.3\% | 24.3\% | 2.9\% | 11.0\% | 0.3\% | 3.4\% | 12.0\% |
| HPQ | HP, Inc. | Information Technology | Technology Hardware Storage \& F | 35.4\% | 64.6\% | 24.2\% | 2.3\% | 21.7\% | 5.0\% | 4.1\% | 5.7\% |
| DOW | Dow, Inc. | Materials | Chemicals | 32.9\% | 67.1\% | 24.2\% | 2.4\% | 20.7\% | 3.3\% | 2.4\% | 10.1\% |
| APTV | Aptiv Plc | Consumer Discretionary | Auto Components | 33.3\% | 66.7\% | 24.1\% | 0.0\% | 30.9\% | 30.9\% | 0.0\% | 1.8\% |
| SPGI | S\&P Global, Inc. | Financials | Capital Markets | 60.4\% | 39.6\% | 24.0\% | 2.8\% | 10.5\% | 2.5\% | 2.0\% | 1.7\% |
| TFX | Teleflex, Inc. | Health Care | Health Care Equipment \& Supplie: | 63.0\% | 37.0\% | 23.7\% | 2.7\% | 9.4\% | 2.2\% | 1.8\% | 1.3\% |
| META | Meta Platforms, Inc. | Communication Services | Interactive Media \& Services | 41.0\% | 59.0\% | 23.6\% | 2.4\% | 22.7\% | 3.6\% | 2.4\% | 3.5\% |
| PKI | PerkinEImer, Inc. (United Sta | Health Care | Life Sciences Tools \& Services | 40.4\% | 59.6\% | 23.5\% | 8.2\% | 25.7\% | 13.2\% | 4.0\% | 3.6\% |
| OTIS | Otis Worldwide Corp. | Industrials | Machinery | 25.9\% | 74.1\% | 23.5\% | 3.1\% | 36.8\% | 20.1\% | 5.3\% | 4.8\% |
| IR | Ingersoll Rand, Inc. | Industrials | Machinery | 38.6\% | 61.4\%\| | 23.3\% | 2.2\% | 22.3\% | 5.2\% | 4.3\% | 3.9\% |
| BK | The Bank of New York Mello | Financials | Capital Markets | 62.3\% | 37.7\% | 23.1\% | 15.1\% | 7.2\% | 1.7\% | 1.4\% | 3.3\% |
| BMY | Bristol Myers Squibb Co. | Health Care | Pharmaceuticals | 63.0\% | 37.0\% | 23.0\% | 2.7\% | 8.6\% | 4.3\% | 1.4\% | 1.2\% |
| EW | Edwards Lifesciences Corp. | Health Care | Health Care Equipment \& Supplie: | 56.6\% | 43.4\% | 22.7\% | 2.6\% | 17.2\% | 4.2\% | 10.1\% | 1.2\% |
| DOV | Dover Corp. | Industrials | Machinery | 58.8\% | 41.2\% | 22.7\% | 2.6\% | 12.7\% | 3.7\% | 2.9\% | 2.4\% |
| CRM | Salesforce, Inc. | Information Technology | Software | 63.8\% | 36.2\% | 22.7\% | 3.8\% | 9.4\% | 5.5\% | 1.7\% | 2.5\% |
| IFF | International Flavors \& Fragr | Materials | Chemicals | 27.5\% | 72.5\% | 22.7\% | 1.9\% | 23.4\% | 3.6\% | 2.2\% | 11.4\% |
| ORCL | Oracle Corp. | Information Technology | Software | 47.7\% | 52.3\% | 22.6\% | 5.5\% | 15.9\% | 3.0\% | 4.4\% | 4.9\% |
| MA | Mastercard, Inc. | Information Technology | IT Services | 32.0\% | 68.0\%\| | 22.5\%\| | 3.0\% | 32.2\% | 16.2\% | 5.1\% | 4.6\% |
| EQIX | Equinix, Inc. | Real Estate | Equity Real Estate Investment Tru | 39.2\% | 60.8\% | 22.5\% | 2.1\% | 22.0\% | 5.1\% | 4.2\% | 4.5\% |
| PPG | PPG Industries, Inc. | Materials | Chemicals | 36.7\% | 63.3\% | 22.4\% | 2.1\% | 17.7\% | 4.1\% | 3.4\% | 10.1\% |
| RL | Ralph Lauren Corp. | Consumer Discretionary | Textiles Apparel \& Luxury Goods | 48.9\% | 51.1\% | 22.4\% | 2.4\% | 20.7\% | 4.8\% | 4.0\% | 1.4\% |
| ANSS | ANSYS, Inc. | Information Technology | Software | 45.5\% | 54.5\%\| | 22.3\% | 0.9\% | 23.6\% | 5.1\% | 10.1\% | 1.4\% |
| ECL | Ecolab, Inc. | Materials | Chemicals | 51.7\% | 48.3\% | 22.3\% | 2.4\% | 14.8\% | 3.3\% | 2.1\% | 5.9\% |
| J | Jacobs Engineering Group, Ir | Industrials | Professional Services | 68.6\% | 31.4\% | 22.3\% | 2.6\% | 5.9\% | 0.5\% | 0.2\% | 0.0\% |
| BF.B | Brown-Forman Corp. | Consumer Staples | Beverages | 51.2\% | 48.8\% | 22.2\% | 6.0\% | 12.4\% | 4.2\% | 0.0\% | 8.6\% |
| CBRE | CBRE Group, Inc. | Real Estate | Real Estate Management \& Devel | 56.6\% | 43.4\%\| | 22.2\% | 13.0\% | 15.0\% | 7.6\% | 2.4\% | 2.1\% |
| APD | Air Products \& Chemicals, In | Materials | Chemicals | 37.7\% | 62.3\% | 22.1\% | 5.7\% | 29.0\% | 17.7\% | 0.0\% | 5.5\% |
| ETN | Eaton Corp. Plc | Industrials | Electrical Equipment | 55.4\% | 44.6\% | 21.8\% | 2.5\% | 12.9\% | 3.6\% | 2.3\% | 5.9\% |
| ADI | Analog Devices, Inc. | Information Technology | Semiconductors \& Semiconductoı | 32.7\% | 67.3\% | 21.8\% | 0.0\% | 45.0\% | 22.1\% | 10.8\% | 0.2\% |
| NTAP | NetApp, Inc. | Information Technology | Technology Hardware Storage \& F | 48.1\% | 51.9\%\| | 21.7\% | 2.1\% | 13.9\% | 3.2\% | 2.7\% | 4.7\% |
| TDY | Teledyne Technologies, Inc. | Information Technology | Electronic Equipment Instruments | 63.5\% | 36.5\% | 21.6\% | 6.2\% | 3.6\% | 1.8\% | 0.6\% | 0.5\% |
| MDT | Medtronic Plc | Health Care | Health Care Equipment \& Supplie: | 50.9\% | 49.1\% | 21.5\% | 3.5\% | 20.8\% | 8.1\% | 6.0\% | 2.3\% |
| SWK | Stanley Black \& Decker, Inc. | Industrials | Machinery | 60.0\% | 40.0\% | 21.4\% | 2.5\% | 8.6\% | 3.0\% | 1.4\% | 5.3\% |
| SLB | Schlumberger NV | Energy | Energy Equipment \& Services | 14.8\% | 85.2\%\| | 21.4\% | 2.2\% | 27.2\% | 5.0\% | 4.1\% | 19.4\% |
| HOLX | Hologic, Inc. | Health Care | Health Care Equipment \& Supplie: | 69.3\% | 30.7\% | 21.3\% | 6.4\% | 6.5\% | 4.6\% | 1.5\% | 1.1\% |
| GOOGL | Alphabet, Inc. | Communication Services | Interactive Media \& Services | 45.7\% | 54.3\% | 21.3\% | 2.0\% | 17.9\% | 4.2\% | 3.4\% | 4.0\% |
| GOOG | Alphabet, Inc. | Communication Services | Interactive Media \& Services | 45.7\% | 54.3\% | 21.3\% | 2.0\% | 17.9\% | 4.2\% | 3.4\% | 4.0\% |
| AME | AMETEK, Inc. | Industrials | Electrical Equipment | 50.5\% | 49.5\% | 21.2\% | 3.9\% | 22.8\% | 4.8\% | 3.6\% | 1.9\% |
| Kо | The Coca-Cola Co. | Consumer Staples | Beverages | 35.2\% | 64.8\% | 21.2\% | 2.0\% | 19.9\% | 4.2\% | 3.8\% | 13.1\% |
| PSX | Phillips 66 | Energy | Oil Gas \& Consumable Fuels | 78.9\% | 21.1\% | 21.1\% | 10.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| IBM | International Business Mach | Information Technology | IT Services | 39.9\% | 60.1\% | 21.1\% | 2.0\% | 20.2\% | 6.2\% | 9.8\% | 6.8\% |
| MAS | Masco Corp. | Industrials | Building Products | 76.3\% | 23.7\% | 20.9\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| MCO | Moody's Corp. | Financials | Capital Markets | 54.9\% | 45.1\% | 20.8\% | 2.0\% | 9.6\% | 2.2\% | 1.8\% | 3.9\% |
| TECH | Bio-Techne Corp. | Health Care | Life Sciences Tools \& Services | 53.9\% | 46.1\% | 20.7\% | 4.4\% | 16.8\% | 9.4\% | 2.4\% | 2.0\% |
| SEE | Sealed Air Corp. | Materials | Containers \& Packaging | 52.9\% | 47.1\% | 20.6\% | 2.9\% | 14.7\% | 7.9\% | 2.5\% | 6.6\% |
| MCHP | Microchip Technology, Inc. | Information Technology | Semiconductors \& Semiconductoı | 5.4\% | 94.6\% | 20.4\% | 2.4\% | 55.3\% | 12.2\% | 5.1\% | 14.4\% |
| PH | Parker-Hannifin Corp. | Industrials | Machinery | 55.5\% | 44.5\% | 20.3\% | 2.4\% | 15.4\% | 3.6\% | 2.9\% | 4.0\% |
| PYPL | PayPal Holdings, Inc. | Information Technology | IT Services | 54.0\% | 46.0\% | 20.3\% | 9.2\% | 18.2\% | 9.2\% | 2.9\% | 2.6\% |
| GE | General Electric Co. | Industrials | Industrial Conglomerates | 44.3\% | 55.7\% | 20.1\% | 2.3\% | 20.0\% | 9.1\% | 4.6\% | 4.3\% |
| DE | Deere \& Co. | Industrials | Machinery | 51.8\% | 48.2\% | 20.1\% | 2.3\% | 8.5\% | 4.6\% | 1.4\% | 10.2\% |
| ON | ON Semiconductor Corp. | Information Technology | Semiconductors \& Semiconductol | 13.8\% | 86.2\% | 20.1\% | 16.7\% | 63.8\% | 29.9\% | 0.9\% | 0.7\% |
| S\&P 500 |  |  |  | 59.8\% | 40.2\%\| | 14.1\%\| | 2.4\% | 17.5\% | 7.3\% | 3.0\% | 3.3\% |

Source: Factset, DWS Investment GmbH as of 7/7/2022. Past performance may not be indicative of future results.

## Top 50 S\&P 500 companies with the highest revenue exposure in China

| Ticker | Company Name | Sector | Industry | US | Foreign | Europe | Asia | China | Japan | LatAm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LVS | Las Vegas Sands Corp. | Consumer Discretionary | Hotels Restaurants \& Leisure | 0.0\% | 100.0\% | 0.0\% | 100.0\% | 67.9\% | 0.0\% | 0.0\% |
| QCOM | QUALCOMM, Inc. | Information Technology | Semiconductors \& Semiconductor | 4.2\% | 95.8\% | 11.6\% | 78.0\% | 67.1\% | 1.9\% | 1.6\% |
| MPWR | Monolithic Power Systems, I | Information Technology | Semiconductors \& Semiconductor | 3.0\% | 97.0\% | 7.1\% | 87.4\% \| | 58.0\%\| | 5.7\% | 0.0\% |
| TXN | Texas Instruments Incorpora | Information Technology | Semiconductors \& Semiconductor | 10.4\% | 89.6\% | 10.6\% | 67.9\% | 54.5\% | 5.2\% | 1.8\% |
| WDC | Western Digital Corp. | Information Technology | Technology Hardware Storage \& F | 22.4\% | 77.6\% | 12.5\% | 53.8\% | 47.1\% | 2.8\% | 2.6\% |
| NXPI | NXP Semiconductors NV | Information Technology | Semiconductors \& Semiconductoı | 8.7\% | 91.3\% | 14.9\% | 67.0\% | 42.6\% | 7.3\% | 2.6\% |
| WYNN | Wynn Resorts Ltd. | Consumer Discretionary | Hotels Restaurants \& Leisure | 59.7\% | 40.3\% | 0.2\% | 40.1\% | 40.1\% | 0.0\% | 0.0\% |
| AVGO | Broadcom, Inc. | Information Technology | Semiconductors \& Semiconductor | 19.3\% | 80.7\% | 8.5\% | 60.8\% | 35.5\% | 6.5\% | 2.1\% |
| EL | The Estée Lauder Compani | Consumer Staples | Personal Products | 20.2\% | 79.8\% | 29.0\% | 35.2\% | 35.2\% | 0.0\% | 1.9\% |
| LRCX | Lam Research Corp. | Information Technology | Semiconductors \& Semiconductor | 4.6\% | 95.4\% | 3.2\% | 88.6\% | 35.1\% | 9.3\% | 0.0\% |
| AMAT | Applied Materials, Inc. | Information Technology | Semiconductors \& Semiconductor | 8.8\% | 91.2\% | 4.8\% | 84.7\% | 32.7\% | 8.5\% | 0.0\% |
| QRVO | Qorvo, Inc. | Information Technology | Semiconductors \& Semiconductor | 41.5\% | 58.5\% | 5.4\% | 53.1\% | 32.3\% | 4.8\% | 0.0\% |
| GLW | Corning, Inc. | Information Technology | Electronic Equipment Instruments | 32.1\% | 67.9\% | 9.8\% | 50.7\% | 31.8\% | 5.5\% | 1.2\% |
| APTV | Aptiv Plc | Consumer Discretionary | Auto Components | 33.3\% | 66.7\% | 24.1\% | 30.9\% | 30.9\% | 0.0\% | 1.8\% |
| ON | ON Semiconductor Corp. | Information Technology | Semiconductors \& Semiconductor | 13.8\% | 86.2\% | 20.1\% | 63.1\% | 29.9\% | 0.9\% | 0.7\% |
| DPZ | Domino's Pizza, Inc. | Consumer Discretionary | Hotels Restaurants \& Leisure | 34.4\% | 65.6\% | 10.2\% | 46.1\% | 28.8\% | 9.1\% | 2.0\% |
| CVX | Chevron Corp. | Energy | Oil Gas \& Consumable Fuels | 44.4\% | 55.6\% | 5.2\% | 33.4\% | 28.2\% | 0.0\% | 5.7\% |
| APH | Amphenol Corp. | Information Technology | Electronic Equipment Instruments | 29.0\% | 71.0\% | 18.7\% | 38.2\% | 28.0\% | 4.2\% | 3.8\% |
| INTC | Intel Corp. | Information Technology | Semiconductors \& Semiconductor | 17.9\% | 82.1\% | 9.0\% | 66.3\% | 26.8\% | 2.1\% | 1.8\% |
| KLAC | KLA Corp. | Information Technology | Semiconductors \& Semiconductor | 11.1\% | 88.9\% | 5.6\% | 81.6\% | 26.5\% | 9.2\% | 0.0\% |
| NVDA | NVIDIA Corp. | Information Technology | Semiconductors \& Semiconductor | 16.2\% | 83.8\% | 11.3\% | 63.9\%\| | 26.4\% | 2.6\% | 2.3\% |
| EXPD | Expeditors International of V Industrials |  | Air Freight \& Logistics | 26.3\% | 73.7\% | 13.7\% | 46.9\% | 26.3\% | 8.3\% | 1.2\% |
| AVY | Avery Dennison Corp. | Materials | Containers \& Packaging | 24.6\% | 75.4\% | 30.2\% | 32.3\% | 26.2\% | 2.1\% | 6.3\% |
| AOS | A. O. Smith Corp. | Industrials | Building Products | 63.3\% | 36.7\% | 3.0\% | 26.2\% | 25.8\% | 0.0\% | 0.0\% |
| TSLA | Tesla, Inc. | Consumer Discretionary | Automobiles | 44.5\% | 55.5\% | 13.0\% | 32.8\%\| | 25.7\%\| | 2.9\% | 2.6\% |
| AMD | Advanced Micro Devices, Inc Information Technology |  | Semiconductors \& Semiconductor | 28.3\% | 71.7\% | 7.6\% | 61.5\% | 24.9\% | 14.5\% | 0.6\% |
| DD | DuPont de Nemours, Inc. | Materials | Chemicals | 25.9\% | 74.1\% | 13.5\% | 40.5\% | 24.7\% | 1.8\% | 3.6\% |
| OGN | Organon \& Co. | Health Care | Pharmaceuticals | 21.9\% | 78.1\% | 27.2\% | 31.3\% | 24.2\% | 3.0\% | 4.7\% |
| BWA | BorgWarner, Inc. | Consumer Discretionary | Auto Components | 16.8\% | 83.2\% | 35.1\% | 33.2\%\| | 23.7\%\| | 1.0\% | 12.4\% |
| TEL | TE Connectivity Ltd. | Information Technology | Electronic Equipment Instruments | 24.2\% | 75.8\% | 34.0\% | 32.0\% | 22.5\% | 2.5\% | 2.2\% |
| ADI | Analog Devices, Inc. | Information Technology | Semiconductors \& Semiconductor | 32.7\% | 67.3\% | 21.8\% | 43.6\% | 22.1\% | 10.8\% | 0.2\% |
| MTD | Mettler-Toledo Internationa | Health Care | Life Sciences Tools \& Services | 32.7\% | 67.3\% | 28.6\% | 26.1\% | 20.3\% | 1.5\% | 3.9\% |
| A | Agilent Technologies, Inc. | Health Care | Life Sciences Tools \& Services | 34.2\% | 65.8\% | 26.7\% | 31.7\% \| | 20.1\%\| | 4.8\% | 2.7\% |
| OTIS | Otis Worldwide Corp. | Industrials | Machinery | 25.9\% | 74.1\% | 23.5\% | 32.9\% | 20.1\% | 5.3\% | 4.8\% |
| SWKS | Skyworks Solutions, Inc. | Information Technology | Semiconductors \& Semiconductor | 63.2\% | 36.8\% | 2.4\% | 33.1\% | 19.5\% | 0.3\% | 0.0\% |
| CE | Celanese Corp. | Materials | Chemicals | 23.5\% | 76.5\% | 37.0\% | 33.7\% | 19.0\% | 0.3\% | 4.0\% |
| KEYS | Keysight Technologies, Inc. | Information Technology | Electronic Equipment Instruments | 36.5\% | 63.5\% | 16.1\% | 37.8\% \| | 18.8\%\| | 7.9\% | 2.8\% |
| WAT | Waters Corp. | Health Care | Life Sciences Tools \& Services | 27.8\% | 72.2\% | 28.2\% | 34.1\% | 18.7\% | 6.6\% | 3.9\% |
| BKR | Baker Hughes Co. | Energy | Energy Equipment \& Services | 21.9\% | 78.1\% | 25.9\% | 32.7\% | 18.6\% | 5.9\% | 5.3\% |
| TPR | Tapestry, Inc. | Consumer Discretionary | Textiles Apparel \& Luxury Goods | 58.6\% | 41.4\% | 4.2\% | 31.2\% | 18.2\% | 10.4\% | 0.0\% |
| MU | Micron Technology, Inc. | Information Technology | Semiconductors \& Semiconductor | 43.9\% | 56.1\% | 1.9\% | 51.2\%\| | 18.2\%\| | 6.0\% | 0.3\% |
| ALB | Albemarle Corp. | Materials | Chemicals | 22.0\% | 78.0\% | 17.6\% | 47.2\% | 18.0\% | 14.0\% | 3.6\% |
| AAPL | Apple, Inc. | Information Technology | Technology Hardware Storage \& F | 36.6\% | 63.4\% | 17.0\% | 32.2\% | 17.9\% | 7.8\% | 3.8\% |
| NKE | NIKE, Inc. | Consumer Discretionary | Textiles Apparel \& Luxury Goods | 33.2\% | 66.8\% | 17.7\% | 25.6\% | 17.8\% | 3.2\% | 2.8\% |
| APD | Air Products \& Chemicals, In | Materials | Chemicals | 37.7\% | 62.3\% | 22.1\% | 29.0\%\| | 17.7\%\| | 0.0\% | 5.5\% |
| TER | Teradyne, Inc. | Information Technology | Semiconductors \& Semiconductor | 10.6\% | 89.4\% | 7.0\% | 72.7\% | 17.1\% | 4.5\% | 0.3\% |
| MA | Mastercard, Inc. | Information Technology | IT Services | 32.0\% | 68.0\% | 22.5\% | 28.5\% | 16.2\% | 5.1\% | 4.6\% |
| DHR | Danaher Corp. | Health Care | Life Sciences Tools \& Services | 39.5\% | 60.5\% | 28.7\% | 19.0\% | 13.5\% | 0.6\% | 3.9\% |
| EA | Electronic Arts, Inc. | Communication Services | Entertainment | 43.5\% | 56.5\% | 18.7\% | 23.7\%\| | 13.5\% | 4.3\% | 3.8\% |
| SNPS | Synopsys, Inc. | Information Technology | Software | 46.4\% | 53.6\% | 10.5\% | 31.0\% | 13.4\% | 3.6\% | 3.2\% |
| S\&P 500 |  |  |  | 59.8\% | 40.2\% | 14.1\% | 17.5\% | 7.3\% | 3.0\% | 3.3\% |

Source: Factset, DWS Investment GmbH as of 7/7/2022. Past performance may not be indicative of future results.

S\&P 500 trailing PE by sector (table 1 of 2)


Source: Factset, DWS Investment GmbH as of 6/30/2022. Past performance may not be indicative of future results.

S\&P 500 trailing PE by sector (table 2 of 2)


Source: Factset, DWS Investment GmbH as of 6/17/2022. Past performance may not be indicative of future results.

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[^0]:     to OW; HC Providers \& Services moved from OW to UW; Tobacco moved from EW to UW.
    Note: More details on sector earnings forecast and sector intrinsic valuation can be found towards the back of this note
    Source: DWS Investment Management GmbH

[^1]:    Source: DWS Investment Management GmbH

[^2]:    Source: Haver, FRB, DWS Investment GmbH as of $7 / 15 / 2022$. Past performance may not be indicative of future results.

[^3]:    Source: Haver, DWS Investment GmbH as of 7/13/2022. Past performance may not be indicative of future results.

[^4]:    Source: Factset, DWS Investment GmbH as of $7 / 5 / 2022$. Past performance may not be indicative of future results.

[^5]:     was compiled 3/31/2022.
    Source: Factset, DWS Investment GmbH as of 7/15/2022. Past performance may not be indicative of future results.

[^6]:    Source: DWS Investment GmbH as of 7/18/2022. Past performance may not be indicative of future results.

[^7]:    Source: IBES, DWS Investment GmbH as of 7/15/2022. Past performance may not be indicative of future results.
     was compiled 3/31/202
    The estimated 2022 year end upside is on absolute valuation basis of each sector, not on relative sector valuation basis.

