

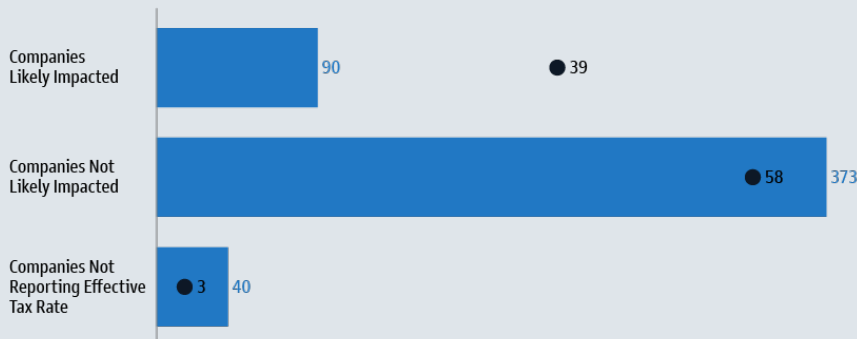
MARKET MONITOR

Chart of the Week: Talking Taxes

S&P 500 Companies Impacted by 15% Corporate Tax Provision in Inflation Reduction Act

■ Company Count

● Market Capitalization (% of Total)



TAXES

The Inflation Reduction Act includes a 15% minimum effective tax rate for companies with over \$1 billion in profit. While most S&P 500 companies may not see a direct impact, those with larger market caps tend to see greater risks. On the whole, Goldman Sachs GIR estimates the provision to marginally lower 2023 S&P 500 earnings per share by roughly -1%, with aggregate earnings still set to grow even after accounting for the entire suite of proposed tax increases.

Source: Bloomberg, GS Global Investment Research, and GS Asset Management.

MARKET SUMMARY

GLOBAL EQUITIES: Equities broadly moved higher last week as US inflation data came in below consensus expectations, providing potential that the Fed may moderate its pace of monetary policy tightening. Ultimately, the S&P 500 closed up 3.31%. European stocks also found support as earnings remain resilient. Overall, the STOXX 600 and FTSE 100 finished up 1.29% and 1.18%, respectively.

COMMODITIES: Oil prices surged amid the broader move up in risk assets, though they still sit below levels reached earlier in the year. The IEA's forecasted demand hike of 380k bbl/day, bringing the total forecasted demand increase to 2.1 million bbl/day this year, gave the market confidence on fundamental tailwinds. WTI and Brent closed at \$92.09/bbl and \$98.15/bbl, respectively. Gold prices also moved up 1.36% as bond yields largely moved off of recent highs.

FIXED INCOME: Sovereign bond yields mostly held within their recent range, despite falling following the softer-than-expected inflation print in the US. Fed officials indicated continued hawkishness as inflation remains well above trend, lifting yields late last week. The US 10-Year Treasury yield closed the week up 1 bp at 2.85%. In the UK, the 10-Year Gilt yield rose 6 bps as 2Q GDP revealed a slight contraction, in line with expectations.

FX: The US dollar continued fading off of recent highs against a basket of currencies as risk-off sentiment waned. Overall, it ended the week -0.91% lower. The euro hit its highest level in the past month against the US dollar, with the ECB set to continue accelerating policy tightening. The pair ultimately ended at \$1.0266.

ECONOMIC SUMMARY

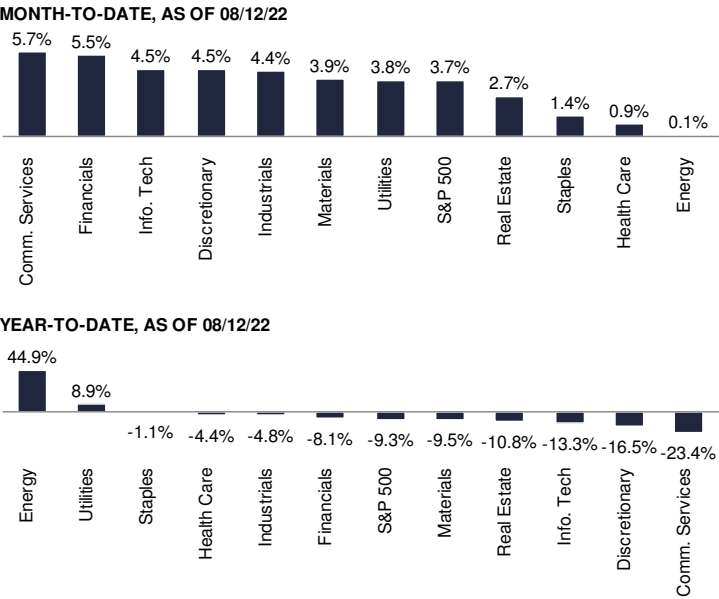
INFLATION: US headline CPI increased 8.5% in July YoY, a welcome decline from the 9.1% high set in June, despite still being well above trend. The index was flat MoM, as falling energy and transportation prices balanced with higher food prices. It was the first time headline inflation printed below consensus expectations since January 2021. US core CPI grew at 5.9% YoY in July, with a MoM increase of 0.3% registering as the slowest pace of increase since September 2021. In China, both CPI and PPI inflation surprised to the downside in July on the back of lower commodity prices. China's CPI rose 2.7% YoY, still above 2.5% the month prior, as food prices increased. We expect inflation in China to stay high in the coming months due to base effects.

UK GROWTH: UK GDP contracted by -0.1% QoQ in the second quarter, marginally above consensus expectations of -0.2%. The contraction was primarily driven by weaker household consumption and government spending. Looking ahead, we expect 3Q GDP to come in at 0.4%, in line with guidance from the BoE, but slightly stronger than consensus expectations of 0.2%.

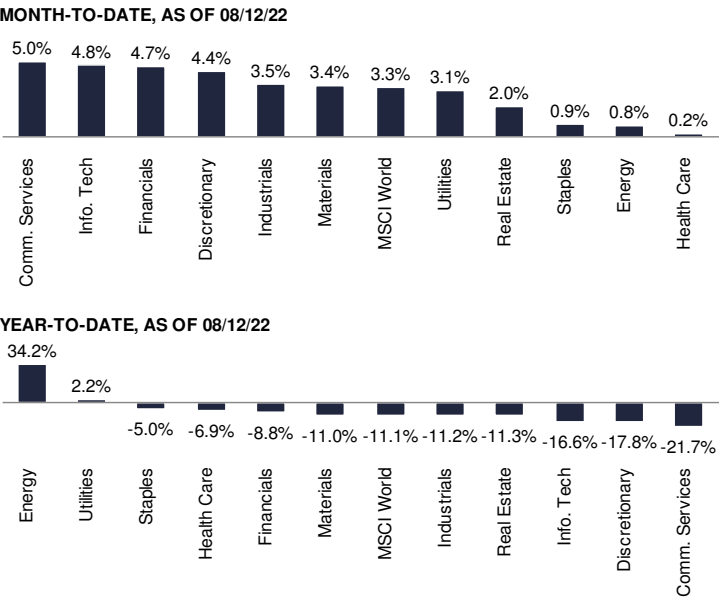
SENTIMENT: The University of Michigan Consumer Sentiment Index released at 55.1, continuing to move off of the lows set in June. The print came in well above consensus expectations of 52.5 as falling gas prices and a strong month for asset prices provided support.

MARKET WATCH

S&P 500 INDEX SECTOR RETURNS



MSCI WORLD INDEX SECTOR RETURNS



ECONOMIC WATCH

Monday, August 15	Tuesday, August 16	Wednesday, August 17	Thursday, August 18	Friday, August 19	Critical Future Events
	United States Housing Starts (Cons: 1530k, Prior: 1559k)	Euro area GDP QoQ (Cons: 0.7%, Prior: 0.7%) UK CPIH YoY (Cons: 8.6%, Prior: 8.2%)	Japan New Core CPI YoY (Cons: 1.0%, Prior: 1.1%) US Initial Jobless Claims (Cons: 265k, Prior: 262k) Philadelphia Fed Business Outlook Survey (Cons: -5.0, Prior: -12.3)	United Kingdom Retail Sales, Month-over-Month (Cons: -0.3%, Prior: 0.4%)	ECB Meeting – Sep 8 BoE Meeting – Sep 15 FOMC Meeting – Sep 20-21

Source: Bloomberg and Goldman Sachs Asset Management. For style performance, Large, Mid, and Small for US Equity refer to the Russell 1000, Russell Midcap, and Russell 2000 indices, respectively. Value refers to companies with lower price-to-book ratios and lower expected growth values, and Growth refers to higher price-to-book ratios and higher forecasted growth values. For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Treasury, Bloomberg Corporate Credit, and Bloomberg High Yield indices, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2021, the Barclays indices are branded "Bloomberg indices". Please see end disclosures for footnotes. **Past performance does not guarantee future results, which may vary.**

Style Performance

US EQUITY SIZE & STYLE RETURNS								
Month-to-Date			(as of 08/12/22)	Year-to-Date				
Value	Core	Growth		Value	Core	Growth		
3.69%	4.08%	4.45%	Large	-3.65%	-10.05%	-15.85%		
4.37%	4.91%	5.88%	Medium	-5.04%	-9.60%	-18.00%		
6.19%	7.03%	7.87%	Small	-3.69%	-9.48%	-15.38%		

MSCI WORLD SIZE & STYLE RETURNS								
Month-to-Date			(as of 08/12/22)	Year-to-Date				
Value	Core	Growth		Value	Core	Growth		
2.51%	3.15%	3.77%	Large	-5.05%	-11.08%	-17.26%		
3.81%	4.02%	4.27%	Medium	-8.36%	-12.92%	-19.18%		
3.96%	4.45%	4.95%	Small	-6.26%	-11.75%	-17.49%		

US FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date			(as of 08/12/22)	Year-to-Date				
Short	Intermed.	Long		Short	Intermed.	Long		
-0.74%	-0.89%	-1.39%	Government	-4.14%	-5.39%	-20.28%		
-0.34%	-0.32%	-0.24%	Corporate	-4.49%	-7.11%	-19.22%		
1.50%	1.58%	2.22%	High Yield	-4.29%	-7.06%	-17.30%		

EUROPEAN FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date			(as of 08/12/22)	Year-to-Date				
Short	Intermed.	Long		Short	Intermed.	Long		
-0.29%	-0.85%	-2.11%	Government	-1.94%	-6.66%	-18.20%		
-0.23%	-0.53%	-1.72%	Corporate	-2.48%	-9.57%	-17.87%		
1.66%			High Yield	-8.59%				

WEEKLY MARKET RECAP

INDEX RETURNS				
	1 WEEK	MTD	QTD	YTD
EQUITIES				
S&P 500	3.31%	3.71%	13.27%	-9.34%
DJ Industrial Average	2.99%	2.87%	9.89%	-5.98%
Russell 2000	4.97%	7.03%	18.21%	-9.48%
Russell Midcap	4.19%	4.91%	15.26%	-9.60%
STOXX Europe 50 (€)	1.42%	1.92%	9.53%	-9.58%
STOXX Europe 600 (€)†	1.29%	0.74%	8.54%	-7.71%
MSCI EAFE Small Cap	2.99%	2.47%	9.25%	-17.47%
FTSE 100 (£)	1.18%	1.54%	5.27%	4.25%
DAX (€)	1.63%	2.31%	7.92%	-13.15%
FTSE MIB (€)	1.70%	2.52%	8.35%	-12.89%
CAC 40 (€)†	1.26%	1.63%	10.76%	-6.45%
SWISS MKT (CHF)	0.05%	-0.16%	3.60%	-11.22%
TOPIX (¥)	1.34%	1.69%	5.48%	0.44%
Hang Seng (HKD)	-0.11%	0.13%	-7.20%	-11.67%
MSCI World	3.06%	3.30%	11.54%	-11.09%
MSCI China Free†	-0.38%	-0.01%	-8.93%	-15.12%
MSCI EAFE	2.17%	1.51%	6.58%	-13.95%
MSCI EM	1.66%	2.65%	2.49%	-15.42%
MSCI Brazil (BRL)	6.16%	9.11%	14.45%	10.53%
MSCI India (INR)	1.69%	3.48%	13.60%	2.48%
MSCI Russia (RUB)	0.00%	0.00%	0.00%	-100.00%
FIXED INCOME				
Bloomberg Aggregate	0.24%	-0.80%	1.63%	-8.89%
Bloomberg Euro Aggregate	0.32%	-0.51%	1.05%	-18.37%
Bloomberg US High Yield	0.94%	1.60%	7.60%	-7.67%
Bloomberg Euro High Yield (€)	0.75%	1.66%	6.83%	-8.59%
Bloomberg Muni Aggregate	-0.08%	-0.19%	2.44%	-6.76%
Bloomberg TIPS	0.18%	-1.41%	3.06%	-6.90%
JPM EMBI Gbl. Divers.	1.51%	2.43%	5.39%	-16.01%
JPM GBI-EM Gbl. Divers.	2.34%	3.09%	3.40%	-11.63%
OTHER				
DJ US Real Estate	4.28%	2.66%	11.77%	-10.61%
FTSE EPRA/NAREIT Dvlpd. Ex-US	2.89%	0.83%	7.21%	-14.36%
S&P GSCI	4.45%	-1.83%	-1.87%	33.26%
Alerian MLP *	4.95%	2.14%	14.90%	26.43%
US Dollar Index	-0.91%	-0.25%	0.90%	10.59%
VIX	-7.66%	-8.44%	-31.97%	13.41%

COMMODITIES				
	08/12/22	07/31/22	06/30/22	12/31/21
WTI Oil (\$/barrel)	\$92.09	\$98.62	\$105.76	\$75.21
Brent Oil (\$/barrel)	\$98.15	\$110.01	\$114.81	\$77.78
Gold (\$/oz)	\$1815.50	\$1781.80	\$1827.50	\$1831.00
Natural Gas (\$/mmBtu)	\$8.77	\$8.23	\$5.42	\$3.73

CURRENCIES				
	08/12/22	07/31/22	06/30/22	12/31/21
Euro (\$/€)	1.0266	1.0220	1.0481	1.1386
Pound (\$/£)	1.2140	1.2175	1.2182	1.3535
Japanese Yen (¥/\$)	133.49	133.34	135.57	115.03
Swiss Franc (CHF/€)	0.9666	0.9729	0.9995	1.0378
Chinese Yuan Renminbi (CNY/\$)	6.7428	6.7442	6.6993	6.3797

RATES & SPREADS				
	08/12/22	07/31/22	06/30/22	12/31/21
RATES				
Fed Funds Target	2.50%	2.50%	1.75%	0.25%
Secured Overnight Financing Rate *	2.28%	2.27%	1.50%	0.05%
ECB Depo Rate	-0.00%	-0.50%	-0.50%	-0.50%
3-Month US Dollar Libor	2.92%	2.79%	2.29%	0.21%
US Treasuries 2-Year	3.26%	2.90%	2.92%	0.73%
US Treasuries 10-Year	2.85%	2.64%	2.97%	1.50%
US Treasury 2-10 Slope	-0.41%	-0.26%	0.05%	0.77%
German Bunds 2-Year	0.61%	0.28%	0.65%	-0.62%
German Bunds 10-Year	0.99%	0.82%	1.34%	-0.18%
Japanese Govt Bonds 10-Year	0.19%	0.18%	0.23%	0.07%
UK Gilts 10-Year	2.11%	1.86%	2.23%	0.97%
Swiss Govt Bonds 10-Year	0.50%	0.44%	1.07%	-0.14%
French OATs 10-Year	1.55%	1.38%	1.92%	0.20%
Italian BTPs 10-Year	3.07%	3.02%	3.26%	1.17%
Spanish Bonos 10-Year	2.10%	1.92%	2.42%	0.56%
SPREADS				
HY Corp. Spread (bps)	408	465	569	283
Bank Loan Spread (bps) *	541	602	658	439
IG Corp. Spread (bps)	131	143	156	92
EMD Spread (bps)	496	548	554	376

Global Equity Valuations

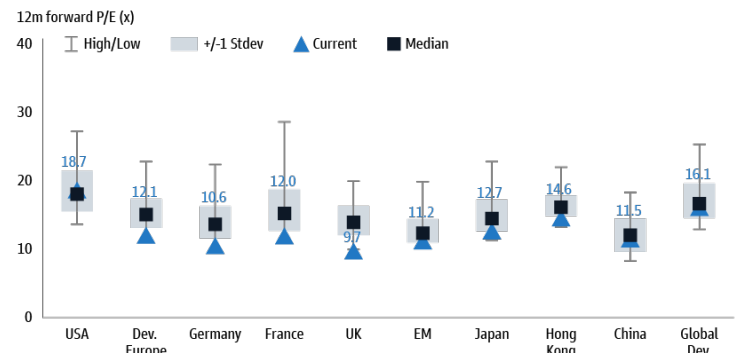


Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on July 29, 2022. Chart data shows next 12 month P/E ratio from August 2012 to the current period. 12m forward P/E(x) refers to price-to-earnings ratio for the next 12 months, which is a valuation measure applied to respective broad equity indices. Please see additional disclosures at the end of this presentation.

Weekly Market Recap Notes:

All data is denominated in USD unless noted otherwise.

† Data is released weekly, as of Monday.

If data displays an asterisk:

* Data is lagged by 1 day.

** Data is lagged by 2 days.

Source: Goldman Sachs Asset Management. **Past performance does not guarantee future results, which may vary. Please see end disclosures for footnotes.**

IMPORTANT INFORMATION

Page 1 Chart of the Week Notes:

As of August 10, 2022. "Companies Likely Impacted" refers to companies that reported over \$1 billion in net income and have an effective tax rate of less than 15% in the latest year. "Companies Not Likely Impacted" refers to companies that either reported less than or equal to \$1 billion in net income or have an effective tax rate of at least 15% in the latest year. Goldman Sachs does not provide accounting, tax or legal advice. The economic and market forecasts presented herein are for informational purposes as of the date of this presentation. There can be no assurance that the forecasts will be achieved. Please see additional disclosures at the end of this page.

Page 1 Market Summary Notes:

"Fed" refers to the Federal Reserve. "IEA" refers to International Energy Agency. "Bbl" refers to barrel. "WTI" stands for West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" is a global benchmark for oil prices worldwide. "Hawkishness" refers to a state of less accommodative monetary policy. "GDP" refers to Gross Domestic Product. "ECB" refers to the European Central Bank.

Page 1 Economic Summary Notes:

"US Headline CPI YoY" refers to the change in the US Consumer Price Index, year-over-year. "MoM" refers to month-over-month. "US Core CPI YoY" refers to the change in the US Consumer Price Index excluding food and energy, year-over-year. "China CPI YoY" refers to the change in the China Consumer Price Index, year-over-year. "China PPI YoY" refers to the change in the China Producer Price Index, year-over-year. "UK GDP QoQ" refers to the change in the United Kingdom Consumer Price Index, year-over-year. "BoE" refers to Bank of England.

Page 2 Style Performance Notes:

For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg US Treasury, the Bloomberg US Corporate Credit, and the Bloomberg US High Yield indices, respectively. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2016, the Barclays indices are co-branded "Bloomberg Barclays indices".

Page 2 Economic Watch Notes:

"Euro area GDP QoQ" refers to the Euro Area's Gross Domestic Product, quarter-over-quarter. "Japan New Core CPI" refers to Japan's Consumer Price Index (ex- Fresh Food, Energy), year-over-year. "UK CPIH YoY" refers to the United Kingdom's Harmonized Consumer Price Index, year-over-year. "US Initial Jobless Claims" refers to the number of people filing to receive unemployment insurance benefits for the week ending August 12, 2022. "ECB Meeting" refers to the European Central Bank's meeting. "BoE Meeting" refers to the Bank of England's Monetary Policy Committee meeting. "FOMC Meeting" refers to the Federal Reserve's Federal Open Market Committee meeting.

Page 3 Global Equity Valuations Chart Notes:

Earnings are forward looking Bloomberg estimates of operating earnings per share over the next four quarters, which may exclude one-time extraordinary gains and losses. Please see index disclosures for additional definitions on the indices.

USA is represented by the MSCI USA Index, Dev. Europe is represented by MSCI Europe Index, Germany is represented by MSCI Germany Index, France is represented by MSCI France Index, UK is represented by MSCI UK Index, EM is represented by MSCI EM Index, Japan is represented by MSCI Japan Index, Hong Kong is represented by MSCI Hong Kong Index, China is represented by MSCI China Index, Global Dev. is represented by MSCI World Index.

Risk Considerations

Equity securities are more volatile than bonds and subject to greater risks. Small and mid-sized company stocks involve greater risks than those customarily associated with larger companies. Bonds are subject to interest rate, price and credit risks. Prices tend to be inversely affected by changes in interest rates. Unlike stocks and bonds, U.S. Treasuries securities are guaranteed as to payment of principal and interest if held to maturity. High yield fixed income securities are considered speculative, involve greater risk of default, and tend to be more volatile than investment grade fixed income securities. Income from municipal securities is generally free from federal taxes and state taxes for residents of the issuing state. While the interest income is tax-free, capital gains, if any, will be subject to taxes. Income for some investors may be subject to the federal Alternative Minimum Tax (AMT). Investments in foreign securities entail special risks such as currency, political, economic, and market risks. These risks are heightened in emerging markets. Investments in commodities may be affected by changes in overall market movements, commodity index volatility, changes in interest rates or factors affecting a particular industry or commodity.

The currency market affords investors a substantial degree of leverage. This leverage presents the potential for substantial profits but also entails a high degree of risk including the risk that losses may be similarly substantial. Such transactions are considered suitable only for investors who are experienced in transactions of that kind. Currency fluctuations will also affect the value of an investment.

General Disclosures

This information discusses general market activity, industry or sector trends, or other broad-based economic, market or political conditions and should not be construed as research or investment advice. This material is not financial research and was not prepared by Goldman Sachs Global Investment Research (GIR). It was not prepared in compliance with applicable provisions of law designed to promote the independence of financial analysis and is not subject to a prohibition on trading following the distribution of financial research.

The views and opinions expressed may differ from those of GIR or other departments or divisions of Goldman Sachs and its affiliates. Investors are urged to consult with their financial advisors before buying or selling any securities. This information may not be current and Goldman Sachs Asset Management has no obligation to provide any updates.

This material is provided for educational purposes only and should not be construed as investment advice or an offer or solicitation to buy or sell securities.

THIS MATERIAL DOES NOT CONSTITUTE AN OFFER OR SOLICITATION IN ANY JURISDICTION WHERE OR TO ANY PERSON TO WHOM IT WOULD BE UNAUTHORIZED OR UNLAWFUL TO DO SO.

Prospective investors should inform themselves as to any applicable legal requirements and taxation and exchange control regulations in the countries of their citizenship, residence or domicile which might be relevant. The information contained in this presentation is not intended to be used as a general guide to investing, or as a source of any specific investment recommendations. This presentation makes no implied or express recommendations concerning the manner in which any client's account should or would be handled, as appropriate investment strategies depend upon the client's investment objectives.