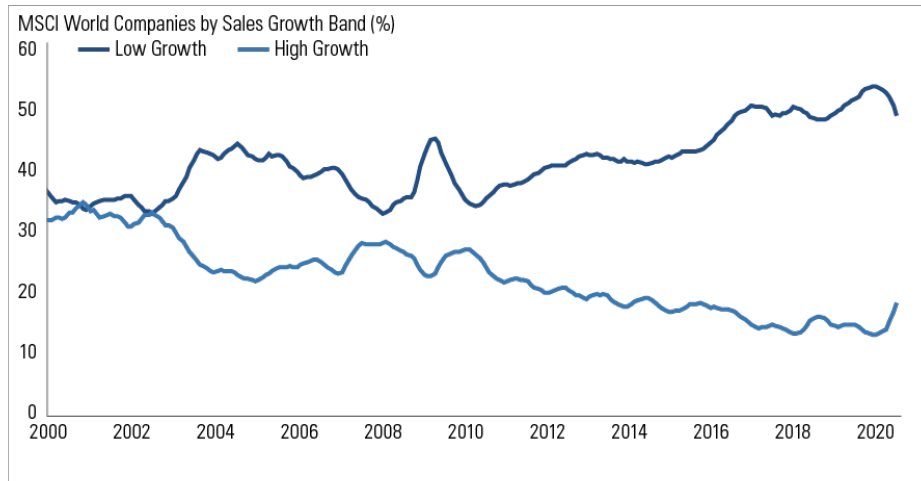


## Perspectives from GSAM Strategic Advisory Solutions

## Chart of the Week: Seeking Out High Growth



Source: Datastream, I/B/E/S, Goldman Sachs GIR, and GSAM. As of July 2020.



## EQUITIES

Since the turn of the century, the number of high growth companies has dwindled across global developed markets. Investors today face a market environment of elevated volatility, low yields, and modest GDP growth, making it difficult to lock in attractive returns. In the decade ahead, we believe returns will increasingly rely on technological innovation in traditional sectors, leading to a more idiosyncratic and global opportunity set.

## MARKET SUMMARY

**GLOBAL EQUITIES:** Global equities had a volatile week following a spike in coronavirus cases globally, a pullback in technology sector performance, and the Federal Reserve's (Fed) perspective on further policy support. In the Fed's testimony before Congress, Chairman Powell emphasized the need for further fiscal stimulus to mitigate downside risks to mortgage defaults and evictions, warning of the economic impact from the stalled fiscal negotiation. The S&P 500 edged down 0.61% lower this past week. Meanwhile the FTSE 100 fell 2.73% as the UK tightened restrictions on business reopening.

**COMMODITIES:** Oil prices declined this past week due to mounting worries of further contraction in oil demand against a potential rise in supply from Libya following a resumption of export activity from three major oil ports. WTI and Brent prices closed lower at \$40.25 and \$41.92 per barrel, respectively.

## ECONOMIC SUMMARY

**MANUFACTURING:** In the Euro area, the flash Composite PMI reached a three-month low, missing consensus expectations for a flat reading. The index dropped by 1.8 points to 50.1 in September. The decline was driven by a downturn in service sector activity linked to the resurgence of COVID-19 cases in the Euro area. The manufacturing sector however continued to see growth, led by Germany's surge in manufacturing output. In the UK, the index saw an even sharper decline, printing 55.7 in September compared to 59.1 in August.

**FIXED INCOME:** Global investors turned to safe-haven assets amid rising COVID-19 case growth in the EU and a diminishing likelihood of further US fiscal stimulus in 2020. In Europe, stricter social distancing and lockdown measures have been reinstated in Spain and the UK. As a result, the yield on the 10-Year German Bund fell 13 basis points to -0.53%. Meanwhile, US Treasury yields were little changed, overlooking the higher-than-expected jobless claims and the Federal Reserve's call for additional fiscal action.

**FX:** A worsened growth recovery path in Europe led the euro and the sterling pound to weaken 1.95% and 1.52%, respectively, against the US dollar. In the UK, the threat of a potential negative policy rate move abated following Governor Bailey's clarifying message, partially reversing earlier losses. The US dollar index ended 1.98% higher at 94.58, its two-month high.

**JOBS:** US jobless claims rose slightly to 870,000 from 866,000 last week. Layoffs continued at a high rate and the labor market recovery struggled to maintain momentum. In California specifically, unemployment benefit processing is on pause for the next two weeks over mounting concerns of fraudulent claims.

**SENTIMENT:** The German Ifo Business Climate Index rose for the fifth consecutive month, posting 93.4 in September, slightly below consensus expectations. Businesses displayed optimism about Germany's stabilizing economy despite seeing an increase in new COVID-19 cases over the past two months.



## Weekly Market Recap

Index Returns				
	1 week	MTD	QTD	YTD
<b>Equities</b>				
S&P 500	-0.61%	-5.66%	6.82%	3.53%
DJ Industrial Average	-1.75%	-4.32%	5.85%	-3.07%
Russell 2000	-4.01%	-5.48%	2.61%	-10.71%
Russell Midcap	-1.48%	-3.75%	5.48%	-4.15%
STOXX Europe 50 (€)	-4.38%	-4.03%	-2.46%	-14.13%
STOXX Europe 600 (€)†	-3.57%	-2.93%	-0.92%	-12.93%
MSCI EAFE Small Cap	-4.13%	-3.01%	7.76%	-6.15%
FTSE 100 (£)	-2.73%	-1.93%	-4.40%	-20.53%
DAX (€)	-4.93%	-3.68%	1.29%	-5.89%
FTSE MIB (€)	-4.13%	-4.66%	-3.06%	-18.75%
CAC 40 (€)†	-4.88%	-4.25%	-3.72%	-19.64%
SWISS MKT (CHF)	-3.06%	0.85%	1.78%	-0.55%
TOPIX (¥)	-0.74%	1.00%	4.86%	-3.71%
Hang Seng (HKD)	-4.98%	-7.36%	-3.57%	-15.06%
MSCI World	-1.72%	-5.14%	6.11%	0.30%
MSCI China Free†	-2.89%	-6.09%	5.24%	10.63%
MSCI EAFE	-4.21%	-4.05%	3.27%	-8.15%
MSCI EM	-4.42%	-3.70%	7.33%	-3.04%
MSCI Brazil (BRL)	-0.96%	-2.25%	1.66%	-15.10%
MSCI India (INR)	-3.99%	-0.92%	10.48%	-2.89%
MSCI Russia (RUB)	-2.31%	-3.75%	2.85%	-11.82%
<b>Fixed Income</b>				
Barclays Aggregate	-0.09%	-0.02%	0.66%	6.83%
Barclays Euro Aggregate	-1.84%	-1.86%	4.99%	6.35%
Barclays US High Yield	-1.53%	-1.75%	3.84%	-0.11%
Barclays Euro High Yield (€)	-1.46%	-0.93%	2.25%	-3.10%
Barclays Muni Aggregate	0.02%	0.08%	1.29%	3.39%
Barclays TIPS	-0.10%	-0.57%	2.98%	9.53%
JPM EMBI Gbl. Divers.	-1.87%	-1.89%	2.27%	-0.55%
JPM GBI-EM Gbl. Divers.	-3.35%	-2.51%	0.11%	-6.79%
<b>Other</b>				
DJ US Real Estate	-2.00%	-3.79%	0.49%	-13.45%
FTSE EPRA/NAREIT Dvlpd. Ex-US	-4.18%	-4.35%	2.49%	-19.25%
S&P GSCI	-2.74%	-4.18%	4.02%	-33.75%
Alerian MLP *	-8.81%	-15.50%	-18.08%	-47.33%
US Dollar Index	1.98%	2.86%	-2.75%	-1.76%
VIX	2.13%	-0.11%	-13.31%	91.44%

Commodities				
	09/25/20	08/31/20	06/30/20	12/31/19
WTI Oil (\$/barrel)	\$40.25	\$42.61	\$39.27	\$61.06
Brent Oil (\$/barrel)	\$41.92	\$45.28	\$41.15	\$66.00
Gold (\$/oz)	\$1873.50	\$1986.50	\$1820.40	\$1529.30
Natural Gas (\$/mmBtu)	\$2.14	\$2.63	\$1.75	\$2.19

Currencies				
	09/25/20	08/31/20	06/30/20	12/31/19
Euro (\$/€)	1.1622	1.1936	1.1235	1.1229
Pound (\$/£)	1.2730	1.3378	1.2391	1.3265
Japanese Yen (¥/\$)	105.61	105.86	107.97	108.59
Swiss Franc (CHF/€)	1.0795	1.0782	1.0643	1.0853
Chinese Yuan Renminbi (CNY/\$)	6.8108	6.8540	7.0722	6.9615

Rates & Spreads				
	09/25/20	08/31/20	06/30/20	12/31/19
<b>Rates</b>				
Fed Funds Target	0.25%	0.25%	0.25%	1.75%
Secured Overnight Financing Rate *	0.07%	0.09%	0.10%	1.55%
ECB Depo Rate	-0.50%	-0.50%	-0.40%	-0.40%
3-Month US Dollar Libor	0.22%	0.24%	0.30%	1.91%
US Treasuries 2-Year	0.13%	0.13%	0.15%	1.56%
US Treasuries 10-Year	0.66%	0.69%	0.65%	1.91%
US Treasury 2-10 Slope	0.53%	0.56%	0.50%	0.35%
German Bunds 2-Year	-0.71%	-0.65%	-0.69%	-0.60%
German Bunds 10-Year	-0.53%	-0.40%	-0.45%	-0.18%
Japanese Govt Bonds 10-Year	0.01%	0.05%	0.03%	-0.01%
UK Gilts 10-Year	0.19%	0.31%	0.17%	0.82%
Swiss Govt Bonds 10-Year	-0.49%	-0.41%	-0.44%	-0.47%
French OATs 10-Year	-0.25%	-0.10%	-0.11%	0.12%
Italian BTPs 10-Year	0.89%	1.09%	1.26%	1.41%
Spanish Bonos 10-Year	0.25%	0.41%	0.47%	0.47%
<b>Spreads</b>				
HY Corp. Spread (bps)	540	482	629	336
Bank Loan Spread (bps) *	572	589	700	461
IG Corp. Spread (bps)	140	129	149	93
EMD Spread (bps)	445	434	490	298

## Global Equity Valuations

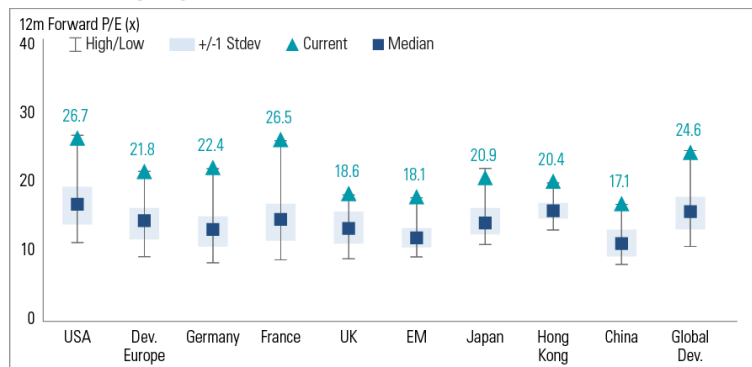


Chart Source: GSAM and Bloomberg as of close of trading on August 31, 2020. Chart data shows next 12 month P/E ratio from September 2010 to the current period. 12m forward P/E(x) refers to price-to-earnings ratio for the next 12 months, which is a valuation measure applied to respective broad equity 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: GSAM. **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:

Chart shows the rolling 6-month average of companies in the MSCI World Index by sales growth band from January 2000 to July 2020. 'Sales growth' is measured by annualized forward consensus expectations of next three-year sales growth. 'Low growth' refers to companies with annualized sales growth less than 4%. 'High growth' refers to companies with annualized sales growth greater than 8%. International securities entail special risks such as currency, political, economic, and market risks. **Past performance does not guarantee future results, which may vary.**

### Page 1 Market Summary Notes:

"WTI" stands for West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" is a global benchmark for oil prices worldwide.

### Page 1 Economic Summary Notes:

"PMI" refers to the Purchasing Managers' Index.

### Page 2 Style Performance Notes:

For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Barclays US Treasury, the Bloomberg Barclays US Corporate Credit, and the Bloomberg Barclays US High Yield indices, respectively. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Barclays Euro Treasury Index, the Bloomberg Barclays Euro Corporate Index, and the Bloomberg Barclays 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:

"China Manuf. PMI" refers to the official China Caixin Manufacturing PMI. "Eur CPI" refers to the Eurozone Consumer Price Index. "ISM Manuf." refers to the ISM Manufacturing Index. "US Jobless Claims" refers to the number of people filing to receive unemployment insurance benefits for the week ending September 26. "US Unemployment" refers to the US Unemployment Rate.

### 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.

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## Index Benchmarks

### Equities

The **S&P 500 Index** is the Standard & Poor's 500 Composite Stock Prices Index of 500 stocks, an unmanaged index of common stock prices. The **Dow Jones Industrial Average Index** is a price-weighted average of 30 actively traded blue-chip stocks. The **Russell 1000 Index** is a market-cap weighted index that measures the performance of the 1,000 largest companies in the Russell 3000 Index. The **Russell Mid Cap Index** measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 30% of the total market capitalization of the Russell 1000 Index. The **Russell 2000 Index** is an unmanaged index of common stock prices that measures the performance of the 2000 smallest companies in the Russell 3000 Index. The **MSCI EAFE Index** is a free-float weighted equity index, which covers developed markets countries in Europe, Australasia, Israel, and the Far East. The **MSCI Emerging Markets (EM) Index** is a free float-adjusted market capitalization index that captures large and mid-cap representation across five EM countries in Latin America. The **MSCI Frontier Markets Index** is a free float-adjusted market capitalization index that captures large and mid-cap representation across 22 frontier markets countries. The **STOXX Europe 600 Index** is derived from the STOXX Europe Total Market Index (TMI) and is a subset of the STOXX Global 1800 Index. With a fixed number of 600 components, the STOXX Europe 600 Index represents large, mid and small capitalization companies across 18 countries of the European region. The **Japan TOPIX Index** is a capitalization-weighted index of the largest companies and corporations that are found in the First Section of the Tokyo Stock Exchange. The **German DAX** is a capitalization-weighted blue chip stock market index consisting of the 30 major German companies trading on the Frankfurt Stock Exchange.

The **Shanghai Composite** is a market capitalization weighted index of all A-shares and B-shares that trade on the Shanghai Stock Exchange. **Euro Stoxx 50 Index**, Europe's leading Blue-chip index for the Eurozone, provides a Blue-chip representation of supersector leaders in the Eurozone. The **Financial Times Stock Exchange (FTSE) 100 Index** is an index of the 100 companies listed on the London Stock Exchange with the highest market capitalization. **FTSE MIB Index** is composed of 40 Italian equities and seeks to replicate the broad sector weights of the Italian stock market. **CAC 40 Index** is composed of the 40 largest equities listed in France. **SWISS Market Index** is composed of the largest and most liquid stocks traded on the Geneva, Zurich, and Basel Stock Exchanges. **Hang Seng Composite Index** covers about 95% of the total market capitalization of companies listed on the Main Board of the Hong Kong Stock Exchange. **MSCI World Index**, is a broad global equity index that represents large and mid-cap equity performance across 23 developed markets countries. It covers approximately 85% of the free float-adjusted market capitalization in each country. **CSI 300 Index** covers 300 stocks traded in the Shanghai and Shenzhen stock exchanges. **MSCI China Index** captures large and mid cap representation across China H shares, B shares, Red chips, P chips and foreign listings (e.g. ADRs). With 461 constituents, the index covers about 85% of this China equity universe. Currently, the index also includes Large Cap A shares represented at 5% of their free float adjusted market capitalization. **MSCI Brazil Index** covers about 85% of the total market capitalization of the Brazilian equity universe. **MSCI India Index** covers about 85% of the total market capitalization of the Indian equity universe. **MSCI Russia Index** covers about 85% of the free float-adjusted market capitalization in Russia.

The **CBOE Volatility Index (VIX)** is a leading measure of market expectations of near-term volatility conveyed by S&P 500 Index option prices.

#### Fixed Income

The **Bloomberg Barclays US Aggregate Bond Index** represents an unmanaged diversified portfolio of fixed-income securities, including US Treasuries, investment-grade corporate bonds, and mortgage-backed and asset-backed securities. The **Bloomberg Barclays US High-Yield Index** covers the USD-denominated, non-investment grade, fixed-rate, taxable corporate bond market. The **Bloomberg Barclays US Aggregate Municipal Bond Index** is an unmanaged broad-based total return index composed of approximately 8,000 investment grade, fixed rate, and tax-exempt issues, with a remaining maturity of at least one year. The **Bloomberg Barclays US High Yield Municipal Bond Index** (formerly the Lehman Brothers High Yield Municipal Bond Index) is an unmanaged index made up of bonds that are noninvestment grade, unrated, or rated below Ba1 by Moody's Investors Service with a remaining maturity of at least one year. The **J.P. Morgan Emerging Markets Bond Index-Global (EMBI Global Index)** is an unmanaged market capitalization Index that tracks total returns for USD-denominated debt instruments issued by emerging market sovereign and quasi-sovereign issuers. The **J.P. Morgan Government Bond Index-Emerging Markets Global Diversified (GBI-EM Global Index)** is a market capitalization Index that tracks the performance of local currency debt issued by emerging market governments. **Bloomberg Barclays Euro Aggregate Index** refers to the Bloomberg Barclays EuroAgg Index. The index measures the market of investment grade, euro-denominated, fixed-rate bond market, including treasuries, government-related, corporate and securitized issues. Inclusion is based on currency denomination of a bond and not country of risk of the issuer. **Bloomberg Barclays Euro High Yield Index** refers to the Bloomberg Barclays Euro High Yield 3% Issuer Capped Index. The index measures the of non-investment grade, fixed-rate corporate bonds denominated in USD. Inclusion is based on the currency of issue, and not the domicile of the issuer. The index excludes emerging market debt.

#### Other

The **S&P 500 Utilities Sector** comprises those companies included in the S&P 500 that are classified as members of the GICS® utilities sector. The **FTSE EPRA/NAREIT Developed ex US Index** is a subset of the FTSE EPRA/NAREIT Developed Index and is designed to track the performance of listed real estate companies and REITS.

The **S&P GSCI Commodity Index** is a composite index of commodity sector returns, representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities. The **S&P 500 Consumer Staples Index** comprises those companies included in the S&P 500 that are classified as members of the GICS® consumer staples sector. The **USD Index** tracks the value of the USD relative to 6 major foreign currencies. It is not possible to invest directly in an unmanaged index. The **Housing Starts** refers to US Housing Starts.

#### Commodities

**WTI Oil** refers to West Texas Intermediate (WTI) Crude Oil, a land-locked crude, delivered via pipeline into Cushing, Oklahoma. **Brent Oil** refers to Brent crude oil, a waterborne crude oil produced in the North Sea. **OPEC** refers to the Organization of the Petroleum Exporting Countries. The **Gold Spot** price is quoted as US Dollars per Troy Ounce.

#### Currencies

**Euro (\$/€)** refers to the Euro's exchange rate with the Dollar. **Pound (\$/£)** refers to the British Pound's exchange rate with the US Dollar. **Japanese Yen (¥/\$)** refers to the US Dollar's exchange rate with the Japanese Yen. **Swiss Franc (CHF/€)** refers the Euro's exchange rate with the Swiss Franc. **Chinese Yuan Renminbi (CNY/\$)** refers to the US Dollar's exchange rate with the Chinese Yuan Renminbi.

#### Rates

The **federal funds rate** is the interest rate at which depository institutions lend balances at the Federal Reserve to other depository institutions overnight. The **LIBOR** is the USD-denominated London Interbank Offered Rate, and is the average of interest rates estimated by each of the leading banks in London that it would be charged were it to borrow from other banks. The **2-Year Treasury** is a US Treasury debt obligation that has a maturity of 2 years. The **10-Year Treasury** is a US Treasury debt obligation that has a maturity of 10 years. The **2-10 Treasury Slope** is the difference between the 10-Year Treasury and the 2-Year Treasury. The **Core-Periphery spreads** refers to the spread between sovereign debt yields of core European countries and peripheral European countries. The **German Bunds 2-Year** is a German debt obligation that has a maturity of 2 years. The **German Bunds 10-Year** is a German debt obligation that has a maturity of 10 years. The Japanese Govt Bonds 2-Year is a Japanese debt obligation that has a maturity of 2 years. The **Japanese Govt Bonds 10-Year** is a Japanese debt obligation that has a maturity of 10 years. The **UK Gilts 10-Year** is a UK debt obligation that has a maturity of 10 years. The **Swiss Govt Bonds 10-Year** is a Swiss debt obligation that has a maturity of 10 years. The **French OATs 10-Year** is a French debt obligation that has a maturity of 10 years. The **Italian BTPs 10-Year** is a Italian debt obligation that has a maturity of 10 years. The **Spanish Bonos 10-Year** is a Spanish debt obligation that has a maturity of 10 years.

#### Spreads

**High Yield (HY) Corporate Spread** is the Barclays US Corporate High Yield Average Option Adjusted Spread (OAS), which measures the spread between the US Treasury yield curve and the Barclays US Corporate High Yield curve. The **Bank Loan Spread** is the daily discount margin (3-year life) of the Credit Suisse Leveraged Loan Index, which is designed to mirror the investable universe of the USD-denominated leveraged loan market. The **Investment Grade (IG) Corporate Spread** is the Barclays US Aggregate Corporate Average OAS, which measures the spread between the US Treasury yield curve and the Barclays US Corporate Average curve. The **EMD Spread** is the J.P. Morgan EMBI Global Diversified Sovereign Spread, which measures the spread between the US Treasury yield curve and the J.P. Morgan EMBI Global Diversified Sovereign curve.

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