

Morgan Stanley (MS)

\$67.83 (As of 12/21/20)

Price Target (6-12 Months): **\$72.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 09/29/20)

Prior Recommendation: Outperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

2-Buy

Zacks Style Scores:

VGM:D

Value: B

Growth: F

Momentum: B

Summary

Morgan Stanley's shares have outperformed the industry over the past year. The company has an impressive earnings surprise history. Its earnings have surpassed the Zacks Consensus Estimate in three and lagged in one of the trailing four quarters. Focus on corporate lending and a strong balance sheet will likely aid growth. Notably, the planned acquisition of Eaton Vance and the buyout of E*Trade Financial are in sync with the company's efforts to change revenue mix and focus more on less capital markets driven sources. However, the financial impact from the same will be seen after some time and thus, the company's current significant dependence on capital-markets driven revenues makes us apprehensive. Further, steadily increasing expenses remain a major near-term concern. Also, lower rates are likely to hamper interest income growth.

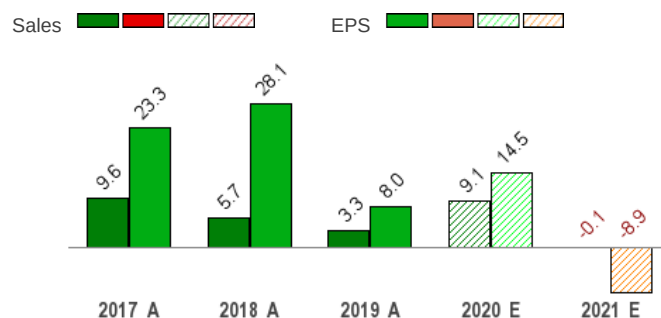
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$68.30 - \$27.20
20-Day Average Volume (Shares)	10,738,535
Market Cap	\$122.7 B
Year-To-Date Price Change	32.7%
Beta	1.59
Dividend / Dividend Yield	\$1.40 / 2.1%
Industry	Financial - Investment Bank
Zacks Industry Rank	Top 13% (32 out of 255)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	26.2%
Last Sales Surprise	13.2%
EPS F1 Estimate 4-Week Change	0.4%
Expected Report Date	01/20/2021
Earnings ESP	10.3%
P/E TTM	11.7
P/E F1	11.9
PEG F1	1.2
P/S TTM	2.4

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	11,578 E	11,213 E	11,121 E	11,262 E	45,174 E
2020	9,487 A	13,414 A	11,657 A	10,645 E	45,203 E
2019	10,286 A	10,244 A	10,032 A	10,857 A	41,419 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$1.36 E	\$1.26 E	\$1.26 E	\$1.28 E	\$5.19 E
2020	\$0.99 A	\$2.04 A	\$1.59 A	\$1.15 E	\$5.70 E
2019	\$1.33 A	\$1.23 A	\$1.21 A	\$1.20 A	\$4.98 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 12/21/2020. The reports text is as of 12/22/2020.

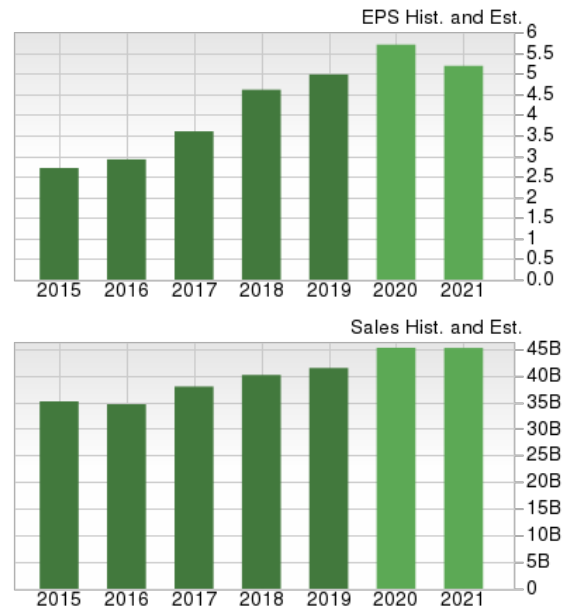
Overview

Founded in 1935 and incorporated under the laws of the State of Delaware in 1981, Morgan Stanley is the leading financial services holding company headquartered in New York. With 63,051 employees, the company serves a diversified group of clients and customers — including corporations, governments, financial institutions and individuals — through more than 1,200 offices across 41 countries.

The company's businesses are divided into three segments:

- The **Institutional Securities** ("IS") segment (49% of net revenues in 2019) includes capital raising; financial advisory services that include advices on mergers and acquisitions (M&As), restructurings, real estate and project finance; corporate lending; sales, trading, financing and market-making activities in equity and fixed income securities and related products, including foreign exchange and commodities; benchmark indices and risk management analytics; and investment activities.
- The **Wealth Management** ("WM") segment (43%) provides brokerage and investment advisory services covering various investment alternatives; financial and wealth planning services; annuity and other insurance products; credit and other lending products; cash management services; retirement services; and trust and fiduciary services and engages in fixed income principal trading.
- The **Investment Management** ("IM") segment (8%) provides global asset management products and services in equity, fixed income, alternative investments that include hedge funds and funds of funds, and merchant banking including real estate, private equity and infrastructure, to institutional and retail clients through proprietary and third-party distribution channels. The segment also engages in investment.

In 2019, Morgan Stanley acquired Canada-based Solium Capital Inc. and renamed it as Shareworks by Morgan Stanley. In October 2020, the company acquired E*Trade Financial.



Source: Zacks Investment Research

Reasons To Buy:

- ▲ Morgan Stanley is undertaking several initiatives to restructure operations, with a goal to increase reliable revenue sources. Thus, the company is focusing on segments – Wealth Management and Investment Management – as these are less dependent on capital markets. Driven by these efforts, both the segment's aggregate contribution to net revenues jumped from 26% in 2010 to 51% in 2019. Also, the company's recent strategic efforts including the planned buyout of Eaton Vance, and acquisitions of E*Trade Financial and Shareworks are steps in these directions. Further, WM segment's total client assets witnessed a three-year compound annual growth rate (CAGR) of 6.7% (2017-2019), with the uptrend continuing in the first three quarters of 2020. Also, IM segment's total assets balance recorded a five-year CAGR of 8% (ended 2019), with the uptrend continuing in the first nine months of 2020. Notably, the company's partnership with MUFG will also support profitability.
- ▲ Moreover, Morgan Stanley is focused on strengthening its corporate banking unit, which has been leading to a steady rise in consolidated loans and lending commitments. The same witnessed a three-year CAGR of 9.8% (2017-2019), with the uptrend continuing in the first nine months of 2020. These efforts have also resulted in an increase in net interest income (NII), which witnessed a four-year CAGR of 8.3% (2016-2019). The uptrend for NII continued in the first three quarters of 2020. While near-zero interest rates are expected to continue hurting NII growth in the near term, the same will likely get support from steady loan growth.
- ▲ Amid the coronavirus-induced economic slowdown, the Federal Reserve restricted dividends and share repurchases by major banks in order to conserve liquidity. Thus, Morgan Stanley is paying a dividend of 35 cents per share in the fourth quarter and not repurchasing shares until December-end. However, following the Fed's approval, now the company will resume repurchases in first-quarter 2021. For 2021, the company has authorized to repurchase shares worth up to \$10 billion. Thus, given a solid liquidity position and earnings strength, Morgan Stanley is expected to continue to enhance shareholder value through efficient capital deployment activities in the future.
- ▲ As of Sep 30, 2020, Morgan Stanley had total borrowings of \$203.4 billion, higher than the cash and cash equivalents balance of \$94.8 billion. However, borrowings worth only \$20.2 billion are expected to mature over the next 12 months. Moreover, the company's total debt to total capital of 69.4% at the end of the third quarter of 2020 declined sequentially and has remained steady in this range over the past several quarters. Thus, despite having higher debt burden, the company is expected to be able to meet near-term debt obligations even if the economic situation worsens owing to its sufficient liquidity position.
- ▲ Further, Morgan Stanley seems to be trading at a discount when compared with the broader industry as its current price-to-book and price-earnings (F1) ratios are lower than the respective industry averages. Also, the stock has a Value Score of A.

Morgan Stanley's focus on less capital-market dependent operations and opportunistic buyouts to aid such efforts are commendable. Steady capital deployments reflect strong balance sheet position.

Reasons To Sell:

- ▼ Morgan Stanley's Institutional Securities segment (mainly constituting trading and investment banking (IB) businesses) depends on the overall performance of the capital markets. Driven by the coronavirus outbreak-induced market volatility along with higher client activities, the trading business recorded impressive growth in the first nine months of 2020. Likewise, IB performance was also decent. Also, overall segment revenues witnessed an increase during the same time frame. However, the segment's top-line performance was dismal in 2019, as the challenging operating environment resulted in volatile client activities, and muted equity/debt issuances and M&As. Thus, as the coronavirus-induced slowdown is likely to persist in the near term, the segment's future performance remains uncertain as it depends on market developments and client volumes.
- ▼ Despite Morgan Stanley's restructuring and streamlining efforts that resulted in achieving cost savings target of \$1 billion in 2017, expenses have been increasing. Operating expenses recorded a four-year CAGR of 5.3% (till 2019), with the uptrend continuing in the first nine months of 2020. Overall costs are expected to remain elevated, given the steadily increasing revenues (leading to higher compensation costs), the company's investments in franchise and inorganic growth efforts.
- ▼ Also, Morgan Stanley's trailing 12-month return on equity (ROE) undercuts its growth potential. The company's ROE of 12.33% compares unfavorably with ROE of 14.99% for the S&P 500. This reflects that it is less efficient in using shareholders' funds.
- ▼ Shares of Morgan Stanley have outperformed the industry so far this year. However, the company's earnings estimates for 2020 have been unchanged over the past 30 days. Thus, given the concerns and lack of positive estimate revisions, the impressive price performance is not expected to continue in the near term.

Uncertainty about the performance of the capital markets remains a major concern for Morgan Stanley. Persistently increasing expenses are expected to hurt the bottom line to an extent in the near term.

Last Earnings Report

Morgan Stanley's Q3 Earnings Beat on Trading Strength

Morgan Stanley's third-quarter 2020 adjusted earnings of \$1.59 per share easily outpaced the Zacks Consensus Estimate of \$1.26. Also, the figure improved 31% from the year-ago quarter.

Results excluded net discrete tax benefit of 7 cents per share. Including this, earnings were \$1.66 per share.

As anticipated, Morgan Stanley's trading business delivered a solid performance. Fixed income trading revenues grew 35% year over year and equity trading income rose 14%. Thus, overall trading revenues increased 20%.

Further, the investment banking business was impressive despite weaknesses in advisory (resulting in a 35% year-over-year decline in corresponding fees) and fixed income underwriting (corresponding fees down 18%). Equity underwriting fees soared 118% from the prior-year quarter. Therefore, IB fees grew 11%.

Additionally, higher net interest income, mainly driven by a rise in loan balance (up 14%) and plunge in interest expenses supported the top line.

However, mounting operating expenses hurt the results to some extent.

Also, the company recorded provision for credit losses on loans and lending commitments of \$111 million, up significantly from \$51 million in the prior-year quarter. Allowance for credit losses on loans and lending commitments was \$1.3 billion as of Sep 30, 2020, an increase of nearly 8% sequentially.

Net income applicable to common shareholders was \$2.6 billion, which grew 26% from a year ago.

Improved Trading, Interest Income Aid Revenues, Costs Rise

Net revenues were \$11.7 billion, increasing 16% from the prior-year quarter. Also, the top line beat the Zacks Consensus Estimate of \$10.3 billion.

Net interest income was \$1.5 billion, which grew 22% from the year-ago quarter. This was largely due to an 82% plunge in interest expenses.

Total non-interest revenues of \$10.2 billion rose 15% year over year.

Total non-interest expenses were \$8.2 billion, up 12% from the prior-year number. The increase was largely due to a 15% increase in compensation and benefits cost.

Solid Segment Performance

Institutional Securities: Pre-tax income from continuing operations was \$2.05 billion, surging 57% from the prior-year quarter. Net revenues were \$6.06 billion, growing 21%. The rise was mainly driven by higher equity underwriting and trading revenues, partially offset by decline in advisory and fixed income underwriting revenues.

Wealth Management: Pre-tax income from continuing operations was \$1.12 billion, down 10% from the year-ago figure. Net revenues were \$4.66 billion, increasing 7%, as higher transactional and asset management revenues were partially offset by lower net interest income.

Investment Management: Pre-tax income from continuing operations was \$225 million, rising 63% from the year-ago quarter. Net revenues were \$1.06 billion, up 38%. The increase was mainly attributed to a rise in asset management fees and investment revenues.

As of Sep 30, 2020, total assets under management or supervision were \$715 billion, up 41% on a year-over-year basis.

Strong Capital Position

As of Sep 30, 2020, book value per share was \$50.67, up from \$45.49 in the corresponding period of 2019. Tangible book value per share was \$44.81, up from \$39.73 on Sep 30, 2019. Morgan Stanley's Tier 1 capital ratio was 19% compared with 18.8% in the year-ago quarter. Tier 1 common equity ratio was 16.9%, up from 16.6%.

Outlook

Management expects to record integration and merger-related expenses in the fourth quarter of 2020 as it begins the integration of E*TRADE.

For Asset Management segment, an increase in fee waivers on certain money market funds as a result of the rate environment was witnessed in third-quarter 2020. The company expects to see the full effect of this trend in the fourth quarter.

The company expects 2020 core tax rate to be 22-23%.

Quarter Ending	09/2020
Report Date	Oct 15, 2020
Sales Surprise	13.20%
EPS Surprise	26.19%
Quarterly EPS	1.59
Annual EPS (TTM)	5.82

Recent News

Morgan Stanley Inks Deal to Acquire Eaton Vance, Boosts AUM - Oct 8, 2020

Morgan Stanley announced a deal to acquire Boston, MA-based Eaton Vance Corp., for an equity value of about \$7 billion. The Voting trust that holding all the voting common stock of Eaton Vance has approved the deal.

Notably, post the deal's closure, Morgan Stanley Investment Management (MSIM) will have \$1.2 trillion of AUM and more than \$5 billion of combined revenues. The acquisition, supporting the company's strategic transformation with three world-class businesses of scale, including Institutional Securities, Wealth Management and Investment Management, aims to grab the market opportunities and scale the client base higher, striking a balance between institutional and retail client with investment solutions in the United States and worldwide.

Moreover, the companies' expanded scale, technological advancement and increased product offerings will help capitalize the market share.

The deal still awaits certain customary approvals. Further, the transaction is anticipated to close in the second quarter of 2021.

"Eaton Vance is a perfect fit for Morgan Stanley," said James P. Gorman, chairman and chief executive officer of Morgan Stanley. "This transaction further advances our strategic transformation by continuing to add more fee-based revenues to complement our world-class investment banking and institutional securities franchise. With the addition of Eaton Vance, Morgan Stanley will oversee \$4.4 trillion of client assets and AUM across its Wealth Management and Investment Management segments," noted Gorman.

Terms of the Deal

Per terms of the deal, each common shareholder of Eaton Vance will get stock equivalent to 0.5833 of Morgan Stanley shares for every Eaton Vance share held and \$28.25 per share in cash. This represents a per share value of \$56.50, consisting of about 50% cash and 50% Morgan Stanley common stock paid to common shareholders of Eaton Vance.

The terms also include an election procedure giving all Eaton Vance shareholders the option to choose for all cash or all stock, which is subject to a proration and adjustment mechanism. Notably, pre-closing of the deal, a one-time special cash dividend of \$4.25 per share will be paid to Eaton Vance common shareholders from the current balance sheet resources.

Strategically, the combined entity will enhance through advanced technologies, innovative products and create a competitive edge with financial stability.

Financial Benefits

Both firms foresee long-term financial benefits from the transaction, which seems attractive for shareholders. Through increased scale, improved distribution, cost savings of \$150 million — or 4% of MSIM, and Eaton Vance expenses and revenue opportunities, the combined entity will likely generate stellar financial returns for Morgan Stanley.

With 50% cash-financing of the deal, Morgan Stanley is likely to use approximately 100 basis points (bps) of excess capital, while the bank's common equity tier 1 ratio is expected to remain around 300 bps above the stress capital buffer (SCB) requirement of 13.2%.

Additionally, a break-even to earnings per share is anticipated immediately and marginally accretive thereafter, with fully phased-in cost synergies. Further, the transaction is likely to add about 100 bps to return on tangible common equity.

Morgan Stanley Concludes E*TRADE Acquisition Deal - Oct 2, 2020

Morgan Stanley has closed the acquisition of E*TRADE Financial in an all-stock deal worth \$13 billion and now holds \$3.3 trillion in assets. The deal, which was announced this February, is likely to position the company as a leader in the Wealth Management industry across all channels and segments, with significant increase in the scale and breadth of its franchise.

Per James P. Gorman, chairman and chief executive officer of Morgan Stanley, "E*TRADE has built a best-in-class, direct-to-consumer digital channel and a strong brand over the past 38 years. The addition of their premier offering will provide enhanced capabilities to all our clients and Financial Advisors."

Terms of the Deal

Per terms of the deal, each common shareholder of E*TRADE will get stock equivalent to 1.0432 of Morgan Stanley shares for every E*TRADE share held. This represents a per share value of \$58.74 based on the closing price of Morgan Stanley common stock as of Feb 19, 2020.

Strategically, the combined entity will enhance through advanced technologies, innovative products and create a competitive edge with financial stability. Remarkably, on completion of the acquisition, online brokerage and digital banking services will enhance clients' experience.

Michael Pizzi, CEO of E*TRADE, joined Morgan Stanley, looking after the E*TRADE business within Morgan Stanley and will co-lead the equity administration business. Moreover, one of E*TRADE's independent directors is joining Morgan Stanley's board.

Financial Benefits

Catering huge funding benefits to Morgan Stanley, the deal comes with around \$56 billion of low-cost deposits. The acquisition move follows the bank's efforts to record revenues from balance-sheet light and more lasting sources of revenues. Markedly, post integration, the combined wealth and investment management businesses are likely to contribute about 57% of the bank's pre-tax profits, excluding potential synergies, above the 26% recorded in 2010.

Post combination, significant cost savings worth \$400 million are anticipated, with the optimization of technology infrastructure and shared corporate services, along with funding synergies of \$150 million from E*TRADE's around \$56 billion of deposits. In addition, \$7.3 trillion of combined current customer assets will likely generate significant revenue opportunities.

Per Morgan Stanley, the acquisition is likely to be accretive, once the fully phased-in estimated cost and funding synergies are realized. Furthermore, the bank's common equity tier 1 ratio is estimated to expand by more than 30 basis points (bps) on closure and augment its return on tangible common equity by more than 100 bps, with fully phased-in cost and funding synergies. Apart from this, Wealth Management's pre-tax profit margin is expected to be up more than 30%.

Rating Action by Moody's on Completion

Following the completion of the transaction, Moody's Investors Service upgraded Morgan Stanley's long- and short-term ratings to A2 (senior unsecured)/Prime-1 from A3 (senior unsecured)/Prime-2. Also, the long-term ratings and assessments of the bank's principal U.S. bank subsidiary — Morgan Stanley Bank, N.A. (MSBNA) — was upgraded by one notch, including its deposit rating to Aa3 from A1, baseline credit assessment (BCA) to baa1 from baa2, and adjusted BCA to a3 from baa1. The rating outlook has been retained at 'stable'.

"The acquisition of E*TRADE is another deliberative step in Morgan Stanley's clear and consistent strategy to shift its business mix towards generating recurring, profitable revenue-streams in wealth and investment management. These revenue-streams are generally more stable and of lower risk than the activities and exposures in Morgan Stanley's institutional securities' business segment," said Donald Robertson, Moody's senior vice president.

Morgan Stanley's Shareworks Enters Alliance With Mitsubishi - Sep 9, 2020

In an effort to offer market-leading stock plan administrative services to executives and employees of companies in Japan, Morgan Stanley's Shareworks entered an alliance with Mitsubishi UFJ Trust and Banking Corporation, the trust banking arm of Mitsubishi UFJ Financial Group, Inc.

Shareworks, earlier known as Solium Capital, was acquired by Morgan Stanley in 2019. It is a stock plan administration platform that provides software and administration services. It administers stock plans for employees and executives at Canada companies.

Currently, Shareworks is part of the Morgan Stanley at Work suite of financial solutions that combines planning and risk management software, intellectual capital and financial education to enable employees in building a holistic plan to achieve their financial goals.

Jed Finn, the head of corporate & institutional solutions and the COO of Wealth Management at Morgan Stanley, stated, "Our strategic alliance with Mitsubishi UFJ Trust and Banking Corporation is a significant opportunity for Shareworks as the number of Japanese companies adding equity plans is growing about 35% annually. The alliance will also position us to provide financial wellness, retirement and wealth management services to the U.S. participants of Japanese companies."

Notably, the alliance will aid in accelerating the delivery of Morgan Stanley's comprehensive end-to-end suite of workplace financial solutions. It will help in providing compensation plan services that maintain and strengthen the competitiveness of Japan-based companies by meeting the needs of their employees.

Morgan Stanley Teams Up With Brokers to Offer P&C Insurance - Aug 3, 2020

With an aim to expand the current insurance offerings, Morgan Stanley has collaborated with HUB International, Marsh Private Client Services and Willis Towers Watson. Teaming up with these insurance brokers, Morgan Stanley plans to offer Property & Casualty insurance to its high net worth clients and their families in order to lessen potential risks associated with property loss and general liability.

Morgan Stanley's traditional insurance services include life insurance, long-term care insurance and disability insurance, which it currently makes available through its Wealth Management Investment Solutions Insured Solutions business. This new arrangement is expected to complement the traditional insurance business.

Through the new arrangement, the insurance brokers will help Morgan Stanley's clients assess their risk exposures and hence will provide them solutions to help protect their assets.

There will be policy reviews to ensure that clients are properly insured and their current policies are most appropriate for their needs. Also, clients will be alerted of situations for which extra precautions are required and there will be a streamlined approach for processing insurance claims.

Joseph Toledano, the head of Insured Solutions, Morgan Stanley Wealth Management Investment Solutions stated, "Our clients place a high priority on asset protection and by working with these industry-leading insurance brokers, Morgan Stanley can address their need for a comprehensive insurance strategy as part of their overall relationship."

Dividend Update

On Oct 15, Morgan Stanley announced a quarterly cash dividend of 35 cents per share. The dividend was paid out on Nov 13 to shareholders of record as of Oct 30.

Valuation

Morgan Stanley's shares are up 32.7% in the year-to-date period and 33.7% over the trailing 12-month period. Stocks in the Zacks sub-industry are up 15.9% while that in the Zacks Finance sector are down 5% in the year-to-date period. Over the past year, the Zacks sub-industry is up 18% while the sector is down 4.2%.

The S&P 500 index is up 17.1% in the year-to-date period and 17.2% in the past year.

The stock is currently trading at 13.11X forward 12 months earnings, which compares to 13.07X for the Zacks sub-industry, 16.95X for the Zacks sector and 23.05X for the S&P 500 index.

Over the past five years, the stock has traded as high as 15.94X and as low as 5.21X, with a 5-year median of 10.16X. Our Neutral recommendation indicates that the stock will perform in line with the market. Our \$72 price target reflects 13.93X forward earnings.

The table below shows summary valuation data for MS

Valuation Multiples - MS					
		Stock	Sub-Industry	Sector	S&P 500
P/E F12M	Current	13.11	13.07	16.95	23.05
	5-Year High	15.94	14.82	16.95	23.79
	5-Year Low	5.21	5.58	11.59	15.3
	5-Year Median	10.16	11.08	14.45	17.81
P/TB TTM	Current	1.47	2.33	3.53	16.41
	5-Year High	1.72	3.2	4.05	16.46
	5-Year Low	0.69	1.35	2.05	7.42
	5-Year Median	1.21	2.24	3.53	10.81
P/S F12M	Current	2.72	4.22	7.07	4.35
	5-Year High	2.72	4.5	7.07	4.35
	5-Year Low	1.06	2.66	5.02	3.17
	5-Year Median	1.95	3.41	6.11	3.67

As of 12/21/2020

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Top 13% (32 out of 255)



Top Peers

Company (Ticker)	Rec	Rank
Evercore Inc (EVR)	Outperform	2
The Goldman Sachs Group, Inc. (GS)	Outperform	3
Moelis & Company (MC)	Outperform	2
The Charles Schwab Corporation (SCHW)	Outperform	1
Bank of America Corporation (BAC)	Neutral	3
Jefferies Financial Group Inc. (JEF)	Neutral	3
JPMorgan Chase & Co. (JPM)	Neutral	2
Raymond James Financial, Inc. (RJF)	Neutral	2

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Financial - Investment Bank				Industry Peers		
	MS	X Industry	S&P 500	GS	JPM	SCHW
Zacks Recommendation (Long Term)	Neutral	-	-	Outperform	Neutral	Outperform
Zacks Rank (Short Term)	2	-	-	3	2	1
VGM Score	D	-	-	F	F	F
Market Cap	122.72 B	797.47 M	26.07 B	88.42 B	376.61 B	97.11 B
# of Analysts	5	2.5	13	6	10	7
Dividend Yield	2.06%	0.00%	1.49%	1.95%	2.91%	1.39%
Value Score	B	-	-	D	F	F
Cash/Price	2.44	0.58	0.06	4.58	3.62	0.58
EV/EBITDA	3.64	4.00	14.52	-5.56	-8.87	9.42
PEG F1	1.22	2.16	2.81	1.20	3.29	NA
P/B	1.51	2.24	3.62	1.09	1.56	2.56
P/CF	9.68	12.14	13.87	8.95	8.80	14.54
P/E F1	11.74	14.31	22.02	13.51	16.46	21.94
P/S TTM	2.39	1.77	2.83	1.64	2.83	9.59
Earnings Yield	8.40%	6.94%	4.36%	7.41%	6.08%	4.56%
Debt/Equity	2.50	0.21	0.70	2.63	1.16	0.30
Cash Flow (\$/share)	7.01	1.86	6.93	28.72	14.04	3.56
Growth Score	F	-	-	F	F	F
Historical EPS Growth (3-5 Years)	21.61%	16.95%	9.71%	8.09%	12.00%	25.53%
Projected EPS Growth (F1/F0)	14.54%	16.18%	1.22%	-9.52%	-29.97%	-13.29%
Current Cash Flow Growth	9.18%	-0.49%	5.23%	-13.72%	9.35%	9.66%
Historical Cash Flow Growth (3-5 Years)	13.46%	10.26%	8.33%	0.72%	10.67%	22.65%
Current Ratio	0.76	1.22	1.39	0.73	0.88	0.28
Debt/Capital	69.37%	17.64%	41.97%	69.78%	52.39%	20.01%
Net Margin	19.16%	8.50%	10.40%	16.65%	19.16%	29.80%
Return on Equity	12.33%	12.29%	14.99%	11.23%	10.85%	13.52%
Sales/Assets	0.05	0.26	0.50	0.05	0.04	0.03
Projected Sales Growth (F1/F0)	9.14%	0.00%	0.39%	14.86%	1.79%	5.04%
Momentum Score	B	-	-	F	A	C
Daily Price Change	5.69%	0.00%	-0.77%	6.13%	3.75%	-0.44%
1-Week Price Change	1.36%	0.98%	0.87%	0.89%	-0.40%	5.16%
4-Week Price Change	12.54%	9.58%	1.83%	12.30%	4.82%	7.28%
12-Week Price Change	40.20%	25.80%	14.52%	29.09%	28.48%	42.96%
52-Week Price Change	33.73%	8.67%	5.55%	12.17%	-9.95%	6.24%
20-Day Average Volume (Shares)	10,738,535	69,526	2,035,313	2,583,587	13,151,008	8,569,060
EPS F1 Estimate 1-Week Change	0.44%	0.00%	0.00%	0.00%	0.43%	0.36%
EPS F1 Estimate 4-Week Change	0.44%	0.00%	0.00%	-0.25%	0.50%	0.58%
EPS F1 Estimate 12-Week Change	10.21%	17.16%	3.79%	52.72%	27.52%	11.55%
EPS Q1 Estimate Monthly Change	2.54%	0.27%	0.00%	0.19%	1.75%	0.35%

Source: Zacks Investment Research

Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	B
Growth Score	F
Momentum Score	B
VGM Score	D

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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Returns quoted represent past performance which is no guarantee of future results. Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.