ZACKS | Our Research. Your Success.

Nov 02, 2020

MSCI Inc. (MSCI)

$349.84 (As of 10/30/20)

Price Target (6-12 Months): **$367.00**

Long Term: 6-12 Months	**Zacks Recommendation:**	**Neutral**
	(Since: 06/19/19)	
	Prior Recommendation: Outperform	
Short Term: 1-3 Months	**Zacks Rank:** (1-5)	**2-Buy**
	Zacks Style Scores:	VGM:C
	Value: F | Growth: C	Momentum: B

Summary

MSCI's third-quarter 2020 top line benefited from solid growth in recurring subscriptions and non-recurring revenues. It is gaining from strong demand for custom- and factor-index modules and the increasing adoption of the ESG solution into the investment process. Additionally, the acquisition of Carbon Delta enhances MSCI's ability to provide climate-risk assessment and assist investors with climate-risk disclosure requirements. Strong traction in client segments like wealth management, banks and broker dealers is a positive. Moreover, free cash flow is now expected to improve due to strong cash collections. Shares have outperformed the industry year to date. However, increasing demand for low-fee products from other index providers, as well as higher cancellations in Index and Analytics segments, are headwinds, in the near term.

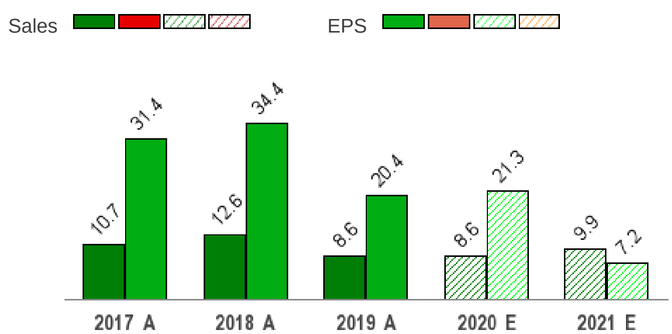
Price, Consensus & Surprise

Source: Zacks Investment Research

Data Overview

52-Week High-Low	**$398.49 - $218.65**
20-Day Average Volume (Shares)	**412,061**
Market Cap	**$29.0 B**
Year-To-Date Price Change	**35.5%**
Beta	**0.86**
Dividend / Dividend Yield	**$3.12 / 0.9%**
Industry	**Business - Software Services**
Zacks Industry Rank	**Top 37% (92 out of 248)**
Last EPS Surprise	**20.2%**
Last Sales Surprise	**0.9%**
EPS F1 Estimate 4-Week Change	**7.4%**
Expected Report Date	**NA**
Earnings ESP	**0.0%**
P/E TTM	**46.4**
P/E F1	**44.8**
PEG F1	**4.5**
P/S TTM	**17.5**

Sales and EPS Growth Rates (Y/Y %)



Sales Estimates (millions of $)

	Q1	Q2	Q3	Q4	Annual*
2021	451 E	460 E	469 E	480 E	1,860 E
2020	417 A	410 A	425 A	440 E	1,692 E
2019	371 A	386 A	394 A	407 A	1,558 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	$1.99 E	$2.06 E	$2.13 E	$2.18 E	$8.37 E
2020	$1.90 A	$1.77 A	$2.20 A	$1.94 E	$7.81 E
2019	$1.55 A	$1.54 A	$1.68 A	$1.67 A	$6.44 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 10/30/2020. The reports text is as of 11/02/2020.

Overview

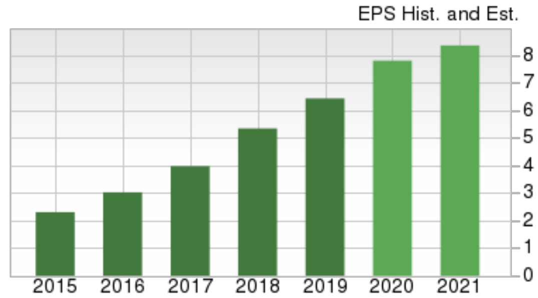
MSCI Inc. provides investment decision support tools, including indexes; portfolio construction and risk management products and services; Environmental, Social and Governance ("ESG") research and ratings; and real estate research, reporting and benchmarking offerings.

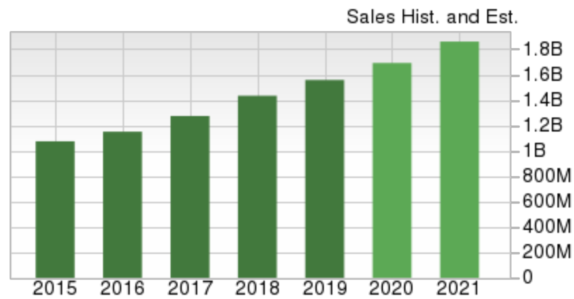
MSCI reported operating revenues of $1.56 billion in 2019. The company operates under three segments — Index (59.1% of operating revenues), Analytics (31.9%) and All other (9%).

Index segment includes MSCI Global Equity Indexes, MSCI Custom Indexes, MSCI Factor Indexes, MSCI ESG Indexes, MSCI Real Assets Indexes and Thematic Indexes. Global Industry Classification Standard (GICS) and GICS Direct were developed and are maintained jointly by MSCI and Standard & Poor's Financial Services.

Analytics segment includes Equity Factor Models, Fixed Income Factor Models, Multi-Asset Class Factor Models, Multi-Asset Class Risk Analytics and Performance Analytics.

MSCI's major application offerings include RiskMetrics RiskManager, BarraOne, Barra Portfolio Manager, WealthBench & CreditManager, and MSCI Analytics Platform. Through the Analytics segment, MSCI also provides Managed Services, HedgePlatform and InvestorForce solutions.





MSCI's ESG Research analyzes more than 8,500 companies worldwide. Offerings include MSCI ESG Ratings and MSCI ESG Business Involvement Screening Research.

MSCI generates revenues primarily through subscription fees, which, in most of the cases, is paid in advance. Clients using the company's indexes as the basis for index-linked investment products (ETFs) or as the basis for passively managed funds also pay license fee, typically in arrears, based on the assets under management ("AUM") in their investment products.

The company's clientele includes pension funds, endowments, foundations, central banks, sovereign wealth funds, family offices, insurance companies, mutual funds, hedge funds, ETFs, private wealth, private banks, REITs, broker-dealers, exchanges, custodians, trust companies and wealth managers.

As of Sep 30, 2020, MSCI served more than 7,900 clients across 90 countries worldwide.

Source: Zacks Investment Research

Reasons To Buy:

- MSCI shares have massively outperformed the S&P 500 market composite in the past five years, primarily driven by consistent top and bottom-line growth, and solid execution. The company benefits from acceleration in the growth of index-based products, equity-ETFs, non-ETF passive investing, and exchange-traded futures and options products. The company is also gaining from strong traction in client segments like wealth management, and banks and broker dealers. An increasing run-rate (annualized value of the recurring revenues under client license agreements) reflects solid growth in clientele. Further, MSCI enjoys high barrier to entry in its operating market, which is a key catalyst.

> Acceleration in the growth of index-based products, strong customer base, partnerships, solid ESG demand and aggressive share repurchase are key catalysts.

- MSCI has a diversified customer base that provides it a significant competitive advantage. As of Sep 30, 2020, the company had more than 7,900 clients. Moreover, index retention rate was a solid 94.5% at the end of third-quarter 2020. Growing passive and index-based investing are driving demand for the company's Index products, which have gained strong traction among client segments like wealth management, banks and broker dealers, and hedge funds. The increasing adoption bodes well for the company's index subscription revenue business

- MSCI's ESG product line has expanded over time. The ESG indexes are increasingly being used for index product creation in equity ETFs, institutional passive asset allocation and benchmarking purposes. ESG is also gaining traction among fixed income investors. MSCI has begun incorporating natural language processing (NLP) and artificial intelligence (AI) capabilities in its ESG products, which will help in smooth data extraction. This will drive productivity and improve operating leverage. The acquisition of Carbon Delta AG in 2019 enhanced MSCI's existing ESG offerings with expert climate change scenario analysis. This also allowed the company to expand its climate risk assessment and reporting offerings. In May, MSCI made 36,000 ESG fund ratings publicly available and launched the MSCI Index Profile tool to provide better access to ESG metrics for both ESG and non-ESG Indexes. Markedly, Assets under Management (AUM) in equity ESG and climate change ETFs linked to MSCI indices had inflow of $11.4 billion in third-quarter.

- MSCI's open architecture enables it to integrate content with any third-party application. This expands customer choice, as they can access content from anywhere. This interoperability feature benefits top-line growth. Moreover, the company continues to actively expand the distribution for its risk and analytics content. It has partnered with Thomson Reuters to integrate its multi-asset class risk analytics within the latter's Eikon platform. The company has also collaborated with Citigroup, Donnelley and Confluence to help mutual funds streamline new reporting obligations of the Securities and Exchange Commission (SEC). Further, partnership with Microsoft is not only expected to strengthen and scale MSCI's infrastructure but also improve client experience.

- MSCI plans to use share repurchase opportunistically. In the third quarter, MSCI repurchased 598,031 million shares for a total value of $206.6 million. Notably, $0.8 billion is outstanding under the share-repurchase authorization as of Oct 23, 2020. MSCI also paid out dividend worth $65.3 million in the third quarter. The company's shareholder friendly approach makes it attractive for investors.

Reasons To Sell:

Growing demand for lower fee products from other index providers and leveraged balance sheet are major concerns.

- MSCI revenues are expected to hurt from lower fee products from other index providers that are targeting new inflows. Management expects a continued decline in average basis point fee level. Moreover, higher cancellations in both Index and Analytics segment don't bode well for top-line growth.
- The company generates more than 40% of revenues from the International markets. Hence, adverse foreign currency exchange rates, owing to the strengthening of the U.S. dollar compared with the Euro and other foreign currencies, remains a concern.
- MSCI also has a leveraged balance sheet. As of Sep 30, 2020, the company's net debt was $3.4 billion unchanged sequentially. Total debt to adjusted EBITDA ratio (based on trailing twelve-month-adjusted EBITDA) was 3.6, higher than management's target range of 3-3.5. Higher leverage increases risks for MSCI's share repurchase program and dividend payout.
- MSCI has outperformed the broader industry over the last one year. However, we note that the stock currently has a trailing 12-month P/E ratio of 46.40, which compares, unfavorably to a certain extent, with what the industry saw over the last year. The ratio is closer to the high end of the valuation range over this period. Hence, valuation looks slightly stretched from a P/E perspective.

Last Earnings Report

MSCI Q3 Earnings Beat, Recurring Subscription Revenues Rise

Quarter Ending	09/2020
Report Date	Oct 27, 2020
Sales Surprise	0.85%
EPS Surprise	20.22%
Quarterly EPS	2.20
Annual EPS (TTM)	7.54

MSCI's third-quarter 2020 adjusted earnings of $2.20 per share beat the Zacks Consensus Estimate by 20.2% and also increased 31% from the year-ago quarter.

Operating revenues improved 7.9% year over year to $425.3 million and beat the consensus mark by 0.8%. This year-over-year growth was driven by 8.7% and 4.5% rise in recurring subscriptions (73.6% of revenues) and asset-based fees (23.6% of revenues), respectively.

Non-recurring revenues (2.8% of revenues) surged 16.2% year over year to $11.8 million.

At the end of the quarter, average assets under management were $908.9 billion in ETFs linked to MSCI indexes. Total retention rate was 94.5% in the quarter under review.

Index Revenue Details

In the third quarter, Index operating revenues (60.1% of operating revenues) improved 7.7% year over year to $255.7 million, primarily driven by growth in recurring subscriptions (up 9.7%) and asset-based fees (up 4.5%).

Higher recurring subscriptions were driven by growth in core products, factor and ESG/Climate index products, and custom index products.

Index net new recurring subscription sales decreased 6.4% year over year.

Analytics Revenue Details

Analytics operating revenues (30.2% of operating revenues) improved 3.8% year over year to $128.3 million. While recurring subscription revenues increased 3.4%, non-recurring revenues jumped 40.7%.

Analytics net new recurring subscription sales fell 5.6%.

All Other Segment Revenue Details

All Other operating revenues (9.7% of operating revenues) increased 24.3% from the year-ago quarter to $41.3 million, primarily driven by recurring subscriptions (up 24.4%).

All Other organic operating revenue growth was 18.6% with ESG organic operating revenues increasing 19.4%. Moreover, Real Estate organic operating revenues grew 16.7% in the reported quarter.

All Other net new recurring subscription sales increased 15.1% year over year.

Operating Details

Adjusted EBITDA increased 13% year over year to $249.4 million in the reported quarter. Moreover, adjusted EBITDA margin expanded 260 basis points (bps) on a year-over-year basis to 58.6%.

Total operating expenses increased 2.4% on a year-over-year basis at $197.7 million, primarily due to higher compensation costs.

Research & development, and selling & marketing expenses increased 2.4% and 4% respectively. Moreover, general & administrative expenses rose 4% year over year.

Operating income improved 13.1% from the year-ago quarter to $227.6 million. Operating margin expanded 250 bps to 53.5%.

Balance Sheet & Cash Flow

Total cash and cash equivalents, as of Sep 30, 2020, were $1.3 billion compared with $1.38 billion as of Jun 30, 2020.

Total debt was $3.4 billion as of Sep 30, unchanged sequentially. Total debt to adjusted EBITDA ratio (based on trailing twelve-month-adjusted EBITDA) was 3.6 times, higher than management's target range of 3-3.5 times.

Net cash provided by operating activities was $199.8 million in the third quarter, up 6% year over year. Free cash flow was $251.1 million, up 41.8% year over year.

In the third quarter, MSCI repurchased 598,031 million shares for a total value of $206.6 million. Notably, $0.8 billion is outstanding under the share-repurchase authorization as of Oct 23, 2020.

MSCI also paid out dividends worth $65.3 million in the third quarter.

Guidance

For 2020, MSCI expects total operating expenses of $800-$820 million (up from previous guidance range of$790-$840 million). Adjusted EBITDA expenses are expected between $710 million and $730 million (up from previous guidance range of $700 - $750 million.)

Capex is expected to be $50-$55 million.

Moreover, net cash provided by operating activities and free cash flow are expected to be $705-$750 million and $650-$700 million, respectively.

Recent News

On Oct 27, MSCI announced the launch of the MSCI Climate Paris Aligned Index Suite. The eight new indexes include climate data from MSCI's Climate Value-at-Risk (Climate VaR) tool, scope 3 emissions data, and green revenues. These indexes will help investors reduce their transition as well as physical risks, identify green opportunities, and to align their investment strategies with the 1.5-degree warming scenario as targeted by the Paris Agreement.

On Oct 1, MSCI launched its Brazil Property Index, which is designed to bring transparency and consistent measurement to the Brazil property market. The index tracks the performance of 91 property investments with history dating back to December 2018.

On Sep 16, MSCI launched a Sustainable Development Goals (SDGs) alignment tool, which is designed to provide investors with a complete view of a company's net contribution – both positive and negative – towards addressing each of the 17 United Nations' SDGs.

On Jul 29, MSCI announced a partnership agreement with Crux Informatics per which the latter will become a data management and delivery provider for the former. The partnership combines the Crux Deliver managed data service with MSCI's Barra Risk Factor Models product offering.

Valuation

MSCI shares are up 35.5% in the year-to-date period and 42.3% over the trailing 12-month period. Stocks in the Zacks sub-industry and the Zacks Computer & Technology sector are up 23% and 20.5% in the year-to-date period, respectively. Over the past year, the Zacks sub-industry and the sector are up 24% and 27%, respectively.

The S&P 500 index is up 1.9% in the year-to-date period and 6.9% in the past year.

The stock is currently trading at 42.27X forward 12-month earnings, which compares to 26.38X for the Zacks sub-industry, 25.45X for the Zacks sector and 20.97X for the S&P 500 index.

Over the past five years, the stock has traded as high as 51.37X and as low as 22.33X, with a 5-year median of 27.85X. Our Neutral recommendation indicates that the stock will perform in-line with the market. Our $367 price target reflects 44.38X forward 12-month earnings.

The table below shows summary valuation data for MSCI

Valuation Multiples - MSCI

		Stock	Sub-Industry	Sector	S&P 500
P/E F12M	Current	42.27	26.38	25.45	20.97
	5-Year High	51.37	26.97	28	23.47
	5-Year Low	22.33	7.29	16.95	15.27
	5-Year Median	27.85	21.69	19.95	17.7
P/S F12M	Current	15.82	10.99	3.97	3.88
	5-Year High	18.61	11.33	4.48	4.31
	5-Year Low	5.6	6.88	2.77	3.18
	5-Year Median	8.9	8.79	3.44	3.68
EV/EBITDA TTM	Current	30.16	53.92	14.32	14.27
	5-Year High	35.94	57.65	15.79	15.68
	5-Year Low	14.31	32.9	8.25	9.55
	5-Year Median	19.22	42.8	11.9	13.13

As of 10/30/2020 *Source: Zacks Investment Research*

Industry Analysis **Zacks Industry Rank:** Top 37% (92 out of 248)

Source: Zacks Investment Research

Top Peers

Company (Ticker)	Rec	Rank
FactSet Research Systems Inc. **(FDS)**	Neutral	3
Guidewire Software, Inc. **(GWRE)**	Neutral	4
IHS Markit Ltd. **(INFO)**	Neutral	3
Moodys Corporation **(MCO)**	Neutral	2
ePlus inc. **(PLUS)**	Neutral	3
Tyler Technologies, Inc. **(TYL)**	Neutral	3
WisdomTree Investments, Inc. **(WETF)**	Neutral	3
CME Group Inc. **(CME)**	Underperform	5

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

Industry Comparison Industry: Business - Software Services

	MSCI	X Industry	S&P 500	CME	SPGI	TYL
				Industry Peers		
Zacks Recommendation (Long Term)	Neutral	-	-	Underperform	Neutral	Neutral
Zacks Rank (Short Term)	2	-	-	5	3	3
VGM Score	C	-	-	F	B	D
Market Cap	29.00 B	6.79 B	22.55 B	54.05 B	77.65 B	15.47 B
# of Analysts	5	4	14	7	7	4
Dividend Yield	0.89%	0.00%	1.68%	2.26%	0.83%	0.00%
Value Score	F	-	-	F	D	D
Cash/Price	0.05	0.14	0.07	0.03	0.03	0.02
EV/EBITDA	37.11	11.81	12.97	16.76	23.73	63.69
PEG F1	4.48	2.29	2.59	4.77	2.82	4.73
P/B	NA	4.50	3.30	2.00	155.92	8.46
P/CF	46.72	19.85	12.54	18.53	30.78	61.50
P/E F1	44.79	30.91	20.14	22.31	28.19	70.89
P/S TTM	17.49	3.09	2.51	10.98	10.62	13.91
Earnings Yield	2.23%	3.23%	4.72%	4.49%	3.55%	1.41%
Debt/Equity	-10.82	0.15	0.70	0.13	8.25	0.00
Cash Flow ($/share)	7.49	1.73	6.92	8.13	10.48	6.25
Growth Score	C	-	-	D	A	C
Historical EPS Growth (3-5 Years)	29.04%	13.57%	10.10%	16.63%	21.75%	15.42%
Projected EPS Growth (F1/F0)	21.30%	-2.83%	-1.80%	-0.65%	20.15%	2.31%
Current Cash Flow Growth	11.37%	7.83%	5.54%	12.13%	8.40%	15.08%
Historical Cash Flow Growth (3-5 Years)	14.85%	14.18%	8.50%	16.24%	16.19%	25.59%
Current Ratio	2.26	1.66	1.37	1.02	1.72	1.77
Debt/Capital	NA%	16.62%	41.80%	11.30%	93.00%	0.00%
Net Margin	34.28%	4.55%	10.46%	43.68%	33.20%	16.96%
Return on Equity	-258.88%	10.05%	14.93%	9.22%	1,009.75%	10.05%
Sales/Assets	0.40	0.73	0.50	0.04	0.66	0.50
Projected Sales Growth (F1/F0)	8.59%	0.00%	-0.40%	1.56%	8.76%	3.82%
Momentum Score	B	-	-	D	A	D
Daily Price Change	1.26%	-0.40%	-0.27%	0.49%	-0.92%	-1.10%
1-Week Price Change	-4.12%	-0.45%	0.01%	-2.46%	-3.08%	1.48%
4-Week Price Change	-2.70%	-2.70%	-1.73%	-11.47%	-11.27%	7.59%
12-Week Price Change	-6.14%	-3.24%	-1.45%	-8.08%	-8.46%	5.57%
52-Week Price Change	49.15%	1.89%	-2.94%	-26.75%	25.09%	43.15%
20-Day Average Volume (Shares)	412,061	367,469	1,805,578	1,569,713	885,809	185,501
EPS F1 Estimate 1-Week Change	6.20%	0.00%	0.00%	-1.10%	2.52%	0.00%
EPS F1 Estimate 4-Week Change	7.42%	0.22%	0.44%	-2.88%	4.11%	0.00%
EPS F1 Estimate 12-Week Change	7.42%	3.41%	2.86%	-2.99%	4.74%	-1.42%
EPS Q1 Estimate Monthly Change	6.81%	0.00%	0.26%	-9.43%	2.47%	0.00%

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	F
Growth Score	C
Momentum Score	B
VGM Score	C

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.

Disclosures

This report contains independent commentary to be used for informational purposes only. The analysts contributing to this report do not hold any shares of this stock. The analysts contributing to this report do not serve on the board of the company that issued this stock.The EPS and revenue forecasts are the Zacks Consensus estimates, unless indicated otherwise on the reports first page. Additionally, the analysts contributing to this report certify that the views expressed herein accurately reflect the analysts personal views as to the subject securities and issuers. ZIR certifies that no part of the analysts compensation was, is, or will be, directly or indirectly, related to the specific recommendation or views expressed by the analyst in the report.

Additional information on the securities mentioned in this report is available upon request. This report is based on data obtained from sources we believe to be reliable, but is not guaranteed as to accuracy and does not purport to be complete. Any opinions expressed herein are subject to change.

ZIR is not an investment advisor and the report should not be construed as advice designed to meet the particular investment needs of any investor. Prior to making any investment decision, you are advised to consult with your broker, investment advisor, or other appropriate tax or financial professional to determine the suitability of any investment.This report and others like it are published regularly and not in response to episodic market activity or events affecting the securities industry.

This report is not to be construed as an offer or the solicitation of an offer to buy or sell the securities herein mentioned. ZIR or its officers, employees or customers may have a position long or short in the securities mentioned and buy or sell the securities from time to time.ZIR is not a broker-dealer.ZIR may enter into arms-length agreements with broker-dealers to provide this research to their clients.Zacks and its staff are not involved in investment banking activities for the stock issuer covered in this report.

ZIR uses the following rating system for the securities it covers. **Outperform-** ZIR expects that the subject company will outperform the broader U.S. equities markets over the next six to twelve months. **Neutral-** ZIR expects that the company will perform in line with the broader U.S. equities markets over the next six to twelve months. **Underperform-** ZIR expects the company will underperform the broader U.S. equities markets over the next six to twelve months.

Additional Disclosure

This material represents an assessment of the market and economic environment at a specific point in time and is not intended to be a forecast of future events, or a guarantee of future results. Forward-looking statements are subject to certain risks and uncertainties. Any statements that refer to expectations, projections or characterizations of future events or circumstances, including any underlying assumptions, are forwardlooking statements. Actual results, performance, or achievements may differ materially from those expressed or implied.

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 mediumterm 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 mostrecent 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 a 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.