LINCOLN INTERNATIONAL









THE LINCOLN MIDDLE MARKET INDEX SHOWS STRONG GROWTH MIDWAY THROUGH 2018

Lincoln International's fourth edition of the Lincoln Middle Market Index (MMI) reveals that, in Q2 2018, middle market enterprise values increased 2.5% compared to 3.4% for enterprise values of S&P 500 companies.

About the Lincoln Middle Market Index

The Lincoln MMI is a first-of-its-kind index to offer a comprehensive, detailed and useful measurement of private middle-market company performance and values.

What has been missing from the privately held company marketplace is a means to identify how its value:

- (1) changes over time
- (2) correlates to the public stock market.

Lincoln designed the Lincoln MMI to solve this problem by measuring the quarterly change in enterprise value for middle market companies primarily owned by private equity firms. Enterprise value ("EV") is the sum of a company's equity value and net debt.

A significant difference between the Lincoln MMI and S&P 500 is that the Lincoln MMI is comprised of smaller, private companies whereas the S&P 500 is comprised of public companies.

QUARTERLY OVERVIEW

- Fourth Edition: Covers Q2 2018
- Measures quarterly changes in enterprise value of nearly 400 middle market companies based on a population of over 1,300 companies primarily owned by private equity firms
- Analyzes the impact from the change in company earnings versus market valuation multiples
- Assess the change in value for six industry sectors



RESULTS:

Both Middle Market and S&P 500 Companies Grew in Q2 2018

2018



NOTE: Both the Lincoln and S&P 500 EV returns above reflect enterprise values S&P 500 EV excludes financial companies for which enterprise value is generally not meaningful; including such companies produces qualitatively similar results



Compound Annual Growth Rate for the Lincoln MMI since Q1 2014 Starting at a value of 10,000 as of March 31, 2014, the Lincoln MMI increased by 31.4% cumulatively to 13,141, as of June 30, 2018.

- The Lincoln MMI grew at a compound annual growth rate of 6.6% since inception as compared to 7.9% for the enterprise values of the S&P 500.
- Over the past year, the Lincoln MMI and S&P 500 enterprise values grew 8.2% and 11.6%, respectively.

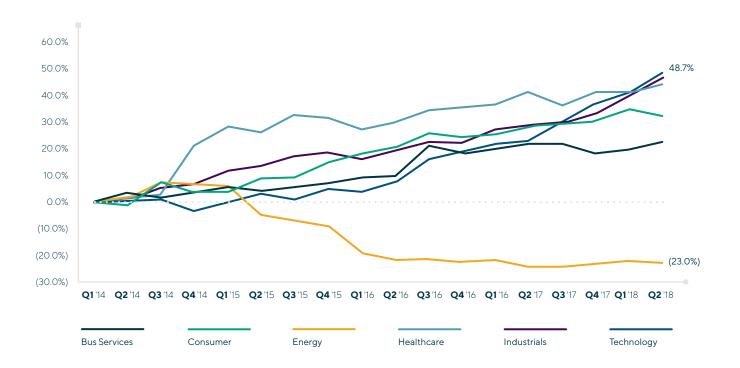
The Lincoln MMI shows that middle market enterprise values increased by over 1.0% in each of the last six quarters. Although the Lincoln MMI lags behind S&P 500 EV growth since inception, the Lincoln MMI's volatility is approximately half that of the S&P 500 EV index.



SECTOR BREAKDOWN:

Middle Market Performance by Industry

Q22018



20.5%

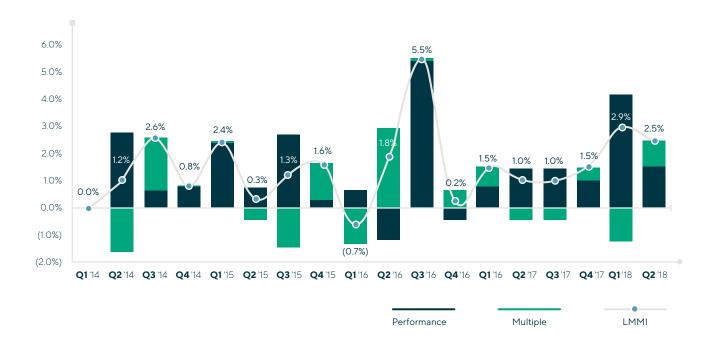
Increase of Lincoln MMI technology since Q2 2017 The technology segment remains the top performing segment over the last year, increasing by 20.5% which is nearly 50% higher than the second-best performing segment, industrials, which grew by 14.0%. Technology and industrial companies account for approximately one-third of the Lincoln MMI, thus driving a significant portion of the middle market's overall growth in Q2 2018.

Whereas every industry increased in value in Q1 2018, both business services and energy companies declined in value in Q2 2018. Despite these declines, both industries' indices remain above their prior year values.



EXAMINING THE LINCOLN MMI:

EBITDA Multiples versus Earnings



15%

Expansion of Lincoln MMI valuation multiples since Q1 2014 The grey line in this graph indicates the quarterly change in the Lincoln MMI; this change is based on changes in performance (i.e., EBITDA) combined with the change in EBITDA multiples.

Since the inception of the Lincoln MMI in Q1 2014, middle market valuation multiples expanded approximately 15%. Enterprise value multiple expansion had slowed over the prior year, but multiples increased notably in Q2 2018 and are at their highest level since the inception of the Lincoln MMI. Despite this, earnings growth remains the more meaningful driver in long-term middle market enterprise value growth.



SUMMARY:

THE LINCOLN MMI



MARKET OBSERVATIONS:

- Enterprise multiples in the middle market are at the highest level since the inception of the Lincoln MMI in 2014 Q1.
- In Q2 2018, middle market enterprise values increased 2.5% compared to 3.4% for S&P 500 companies; however, for the first six months of 2018, middle market enterprise value growth of 5.5% beat that of the S&P 500 of 2.5%.
- Steady growth in the Lincoln MMI was driven by both improved performance and multiple expansion whereas growth in the S&P 500 was driven by only improved performance as multiples were flat.
- With six consecutive quarters of enterprise value growth over 1.0%, the Lincoln MMI continues to demonstrate that valuations of U.S. middle market companies are less volatile because of lower volatility in enterprise value multiples compared to the S&P 500; in the long run, earnings remain the driver of enterprise value growth for all companies.

INDUSTRY OBSERVATIONS:

- Middle market industrial companies followed their record quarterly enterprise value growth in Q1 2018 of 4.9% with a new record quarterly enterprise value growth of 5.2%.
- Business services enterprise values in the middle market declined in Q2 2018 after five quarters of steady enterprise value growth.
- Middle market technology companies outperformed all other industries over the past year with quarterly enterprise value growth of over 5.0% in three out of four quarters.
- Although each industry showed enterprise value growth over the past year, industrial and technology companies grew 14.0% and 20.5%, respectively, compared to less than 3.0% for the four other industries.

IN SUMMARY, WE BELIEVE THE LINCOLN MMI:

- Enables investors in private companies and private equity firms the ability to compare or benchmark their investments against an index comprised of hundreds of privately held companies.
- Demonstrates middle market private companies generate returns comparable to major public stock market indices while also being reflective of the United States private equity backed middle market.
- Offers many unique valuation insights into the fair value of private companies for a wide array of stakeholders and investors and represents a significant enhancement to the information available to investors in private companies.



METHODOLOGY: **Data Collection**

Q22018

SOURCE OF DATA AND SAMPLE SIZE

On a quarterly basis, Lincoln determines the enterprise fair value of over 1,300 portfolio companies for approximately 100 sponsors (i.e., private equity groups and lenders to private equity groups). These portfolio companies report quarterly financial results to the sponsor or lender. Lincoln obtains this information and computes the enterprise value in accordance with the fair value measurement principles of generally accepted accounting principles. In assessing enterprise value, Lincoln relies on well accepted valuation methodologies such as the market approach and income approach considering each company's historical and projected performance and other qualitative and quantitative factors. Finally, each valuation is then vetted by auditors, company management, boards of directors and regulators. Upon concluding each quarterly valuation cycle, Lincoln aggregates the underlying financial performance and enterprise value data for analysis.

To construct the Lincoln MMI, Lincoln selects a subsection of the companies valued each quarter, including companies each generating earnings before interest, taxes, depreciation and amortization of less than \$100.0 million, disregarding venture-stage businesses and non-operating entities, such as special purpose entities that own real estate and specialty finance assets.

For more information, visit www.lincolninternational.com/services/valuations-and-opinions/lincolnmmi

1,300+

Portfolio Companies are evaluated by Lincoln on a quarterly basis to determine their Enterprise Fair Value ~100

Sponsors participate in Lincoln MMI I.E. Private Equity Groups & lenders to Private Equity Groups

METHODOLOGY:

Academic advisors

Q2

PROFESSOR STEVEN KAPLAN

Professor Steven Kaplan is the Neubauer Distinguished Service Professor of Entrepreneurship and Finance at the University of Chicago Booth School of Business. Professor Kaplan conducts research on issues in private equity, venture capital, entrepreneurial finance, corporate governance and corporate finance. He has published papers in a number of academic and business journals. Kaplan is a research associate at the National Bureau of Economic Research and an associate editor of the Journal of Financial Economics. Kaplan teaches advanced MBA and executive courses in entrepreneurial finance and private equity, corporate finance, corporate governance, and wealth management. *BusinessWeek* named him one of the top 12 business school teachers in the country. Kaplan serves on the boards of Morningstar, Zayo Group and the Illinois Venture Capital Association. He has been a member of the faculty since 1988.

Professor Kaplan received his A.B., *summa cum laude*, in Applied Mathematics and Economics from Harvard College and earned a Ph.D. in Business Economics from Harvard University.

PROFESSOR MICHAEL MINNIS

Professor Michael Minnis is an Associate Professor of Accounting at the University of Chicago Booth School of Business. Professor Minnis studies the role of accounting information in allocating investment efficiently by both management and capital providers, the use of financial reporting in mitigating information opacity issues of privately-held firms, and the interplay within management in the production and use of financial information. His research includes identifying unique data and methods to empirically examine issues in a novel way.

Professor Minnis received his Ph.D. from the University of Michigan and his B.S. from the University of Illinois, where he graduated with Highest Honors.



Lincoln International's Global Valuations & Opinions Group

Q2

2018

Lincoln International's Valuation & Opinions Group (VOG) is a leading independent valuation advisor to managers of illiquid assets and lenders to alternative assets funds. The team specializes in the valuation of illiquid debt, equity and derivative securities. Additionally, they provide independent fairness and other transaction opinions for a variety of corporate transactions for both public and private companies.

Lincoln International's highly skilled professionals have extensive experience in determining and supporting fair value measurements for traditional and complex securities. They are widely recognized for leveraging Lincoln International's "real world" transaction experience from its M&A and debt advisory practices to assist its clients in the determination of fair value.

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About Lincoln International

Lincoln International specializes in merger and acquisition advisory services, debt advisory services, private capital raising and restructuring advice on mid-market transactions. Lincoln International also provides fairness opinions, valuations and joint ventures and advisory services on a wide range of transaction sizes. With nineteen offices in the Americas, Asia and Europe, Lincoln International has strong local knowledge and contacts in key global economies. The firm provides clients with senior-level attention, in-depth industry expertise and integrated resources. By being focused and independent, Lincoln International serves its clients without conflicts of interest. More information about Lincoln International can be obtained at www.lincolninternational.com.

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