Eli Lilly: 45 to 1
A Data-Science Valuation Brief

Investors could buy Eli Lilly, or they could buy _all 4_ of Pfizer, Novartis, Bristol Myers and Merck:

For Eli Lily:	**Pfizer, Novartis, Bristol-Myers and Merck _combined_:**
Their market value is $724 billion,	Their market value is $781 billion, 8% more than Lilly,
Their revenues were $34.1 billion, and	Their revenues were $215 billion, 629% more than Lilly, and
Their net income was $5.2 billion.	Their net incomes were $25.4 billion, 484% more than Lilly.
Lilly's P/E is 139, and its P/S is 21.2.	Their average P/E is 30.7, and their P/S is 3.6.

Alternatively, investors could buy 100% of the forty-five (45) companies listed below.

The 45 companies below have:
A total market cap of $755 billion, 4.3% more than Lilly,
Revenues of $742 billion, 2,176% more revenues than Lilly, and
Earnings of $59.3 billion, 1,140% greater earnings than Lilly.

> A.O. Smith, Albemarle, Archer-Daniels Midland, BJ's Wholesale, Bunge Global, Casey's General, CF Industries, Cincinnati Financial, Devon Energy, Dick's Sporting Goods, EMCOR Group, Expeditors International, HF Sinclair, Host Hotels & Resorts, Incyte, Interactive Brokers, Jabil, LPL Financial, M&T Bank, Molina Healthcare, NVR, Ovintiv, Owens-Corning, Packaging Corp of America, Penske, PulteGroup, Ralph Lauren, Reliance, Skyworks Solutions, Snap-on, Steel Dynamics, T. Rowe Price, Textron, The Hartford Financial, The Mosaic, Toll Brothers, TopBuild, Tractor Supply, Twilio, United Airlines, United States Steel, United Therapeutics, Universal Health, Williams-Sonoma and WR Berkley.

Currently, Eli Lilly's price to sales ratio is 21. In the last 9,919 trading days (40 years), Lilly had a P/S of 3.6 or less on 3,715 days (37.4%). In the future, Lilly will again have a P/S ratio substantially less than 4. **_What does imply for Lilly's price?_**

Currently, Eli Lilly's price to earnings ratio is 139. In the last 9,919 trading days (40 years), Lilly had a P/E of 30.7 or less on 5,269 days (53.1%). In the future, Lilly will again have a P/E ratio substantially less than 30. **_What does imply for Lilly's price?_**

Answers: The Profit Map™ informs us:

1. To produce a **15% price gain per year** for 5 years, LLY's price must rise to **$1,532.94**.

2. If LLY's revenues grow at **25%** per year, in 5 years they'll grow to **$104.1 billion**. What is the statistical probability that LLY's revenues will grow from $34 billion to $104.1 billion in 5 years? How many companies in the past 30 years have had revenues of $34 billion and grew at 25% per year for 5 years?

3. To produce a **15% gain per year** for investors in 5 years, LLY's market cap must rise to **$1.5 trillion**. What is the statistical probability that LLY will reach a market cap of **$1.5 trillion**? What do historical precedents tell us about the statistical probability for companies with revenues of $104.1 billion having a market cap of $1.5 trillion?

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4. If LLY's revenues grow at **25%** per year for 5 years, to produce a **15% gain per year** for 5 years, LLY's P/S ratio must be **13.99**. In the past 30 years, how many companies with revenues of $104.1 billion had a P/S ratio of 13.99? *Currently, there are 32 companies with revenues over $104 billion. 88% of them have a P/S ratio under 5. Only Microsoft has a P/S of 13.3.*

5. If LLY's revenues grow at **25%** per year for 5 years, their profit margin is **25%** 5 years from now, and their market cap is $1.5 trillion, LLY's P/E ratio will then be **138.20**. In the past 30 years, how many companies with revenues of $104.1 billion and a profit margin of **25%** had a **P/E ratio of 138.2**? What percentage of those companies' stock prices rose? What percentage fell? By how much, and over what time periods? Currently there are 5 companies with a market cap over $1.5 trillion. **Their average P/E ratio is 43.7.**

The **Profit Map™** allows investors to calculate *the actual future price* of any stock based on *their assumptions* of the growth of its revenues, its profit margins, its future price to earnings and its future price to sales ratios. www.ProfitMap.ai

No investor can **know** what these four variable factors will be in the future. However, the **Profit Map™** provides users will data to assist them in making realistic assumptions, and provides immediate calculations for the potential profits or losses based on their assumptions.

Conclusion: All growth stocks eventually experience both P/E compression and P/S compression. Therefore, we caution investors of the potential impact of valuation ratio compression on Eli Lilly's stock.

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"Investment losses are not accidents of nature.
To avoid and prevent losses, first, we must identify their causes."
– Raymond M. Mullaney, CEO, Equity Risk Sciences, Inc.

"You must never delude yourself into thinking you're investing when you're speculating."
– Benjamin Graham, "The Intelligent Investor," 1949

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