

20-YEAR STUDY OF IBM

January 22, 2021

Equity Risk Sciences produces risk & price change probability ratings for all publicly-traded US and Canadian companies.

Each company has 3 ratings:

- 1. Financial Risk Indicator A measure that rates the strength and durability of a company's financial condition
- 2. Price Risk Indicator A statistical measure that rates the probability that a company's stock price will decline
- **3.** Equity Risk Indicator An overall statistical rating considering its price and financial condition

These indicators are indexed from 0 (good) to 100 (bad) and then transformed into an effective scaled rating from A (great) to E (poor).



IBM – 20 YEAR HISTORY

On 12/31/1999, IBM had revenues of \$87.6 billion and liabilities of \$67 billion.

Wall Street's analysts wrote bullish reports about the company over the following 20 years. During that period, however, long-term investors in IBM have seen the market value of their company decline by \$85 billion, a loss of -44%. The financial risks of IBM have grown exponentially: its revenues have fallen to \$75 billion, and their total liabilities are up to a whopping \$133 billion! And yet, retail and institutional investors still own and continue to buy IBM and its "turnaround" story.

ERS's data analytics could have guided analysts to buy it at the best times and protect their capital when it became overvalued by selling it.

| | December 31, 1999 | January 22, 2021 | |
|----------------------------------|-------------------|------------------|--|
| Earnings per Share | \$4.12 | \$8.83 | +\$4.71 (+114%) Increase in EPS |
| Revenues (trailing 12 months) | \$87.6 | \$75.0 | -\$12.6 (-14.4%) Decline in Revenues |
| Liabilities | \$67.0 | \$132.8 | +\$65.8 (+98%) Increase in Liabilities |
| Net Tangible Equity | \$20.3 | -\$51.1 | -\$71.4 Loss in Tangible Equity |
| Market Cap | \$193 | \$108 | -\$85 (-44%) Loss In Company's Value |
| Stock Price | \$108.00 | \$121.25 | +12.3% Price Change |

^{*}All numbers in billions except share prices.



International Business Machines Corp (IBM): Dec 31, 1999 to Jan 15, 2020

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"





International Business Machines Corp (IBM): Dec 31, 2015 to Oct 15, 2020

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"





International Business Machines Corp (IBM): Dec 31, 1999 to Jan 15, 2019

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"

Average Α B to I J 53.7% % Probability of Gains 100.0% 53.4% 0.0% 9.5% **Average Total Return** 85.7% 8.9% -41.2% 2-Year Hold % of Total Days: 98.6% 0.4% 100% 1.0% Number of Days 6956 72 6856 28 Number of Gains 3736 72 3664 0 28.5% Average Gain 85.7% 27.3% **Average Loss** -12.4% -12.2% -41.2%



International Business Machines Corp (IBM): Dec 31, 1999 to Jan 15, 2018

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"

Average Α B to I J 59.6% % Probability of Gains 100.0% 59.4% 0.0% **Average Total Return** 16.4% 139.9% 15.2% -31.7% 100% % of Total Days: 1.1% 98.5% 0.4% 6591 **Number of Days** 72 6491 28 Number of Gains 3925 72 3853 0 Average Gain 36.1% 139.9% 34.2% -12.7% **Average Loss** -12.5% -31.7%



International Business Machines Corp (IBM): Dec 31, 1989 to Dec 31, 1999

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"

B to I Average Α % Probability of Gains 100.0% 68.7% 62.3% 0.0% **Average Total Return** 85.3% 49.8% 55.8% -20.6% 2-Year Hold 100% % of Total Days: 18.8% 80.3% 1.0% 3653 Number of Days 685 2933 35 **Number of Gains** 2511 685 1826 0 94.3% Average Gain 85.3% 97.6% **Average Loss** -29.2% -20.6% -28.9%



International Business Machines Corp (IBM): Dec 31, 1989 to Dec 31, 1999

Grouped by Metric into 2 Deciles and the Middle 80% Based on F1

Current F1: "J"

Average Α B to I 71.1% % Probability of Gains 100.0% 65.2% 0.0% **Average Total Return** 156.6% 85.2% -45.6% 97.3% 3-Year Hold % of Total Days: 80.3% 100% 18.8% 1.0% Number of Days 3653 685 2933 35 2597 **Number of Gains** 685 1912 Average Gain 151.5% 156.6% 149.6% -35.8% **Average Loss** -35.4% -45.6%

