



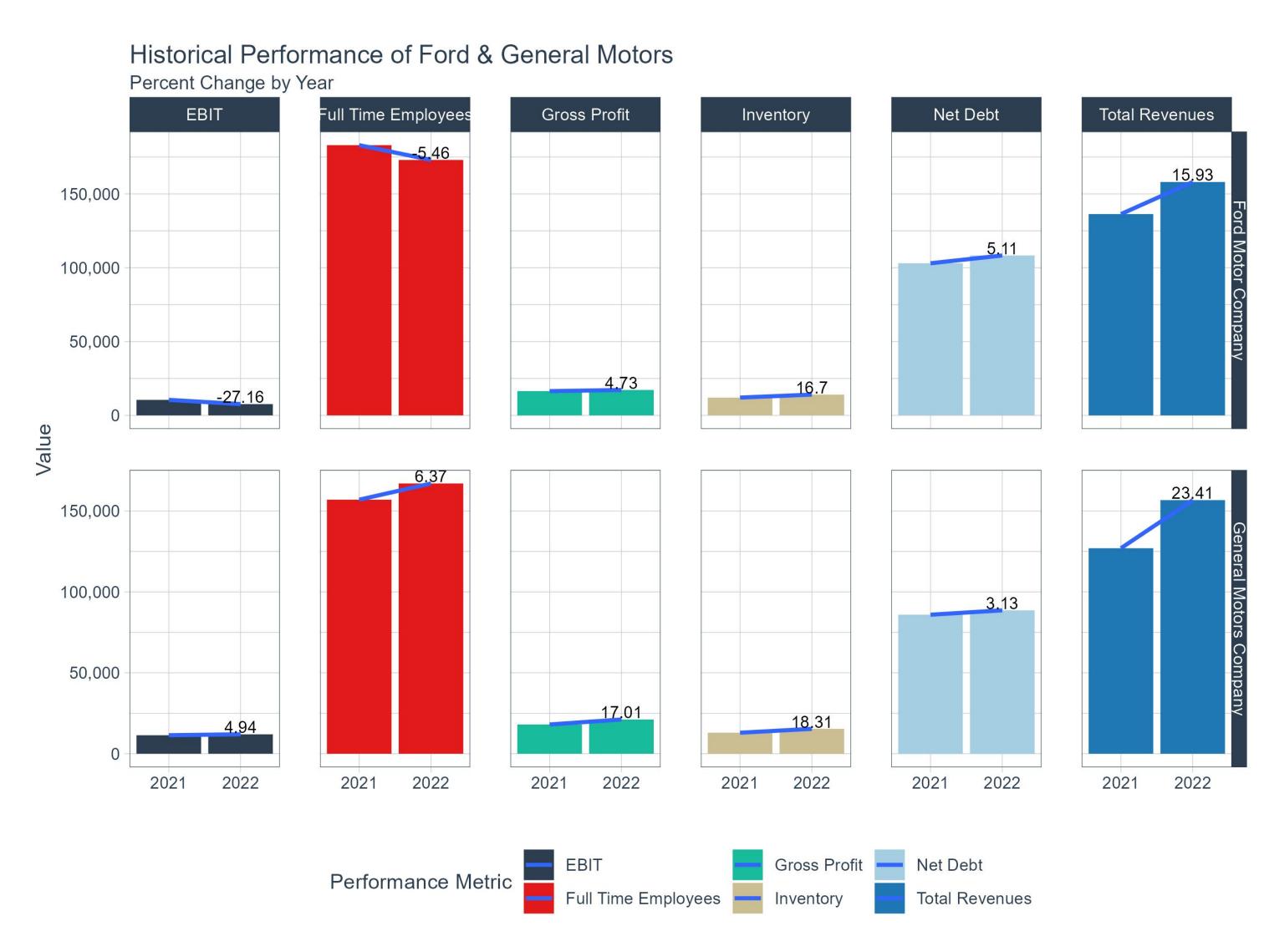
General Motors fares better than the competition

HOW DOES FORD'S REVENUE COMPARE WITH GENERAL MOTORS' REVENUE?

Ford had a 15.9% increase in Total revenue from 2021 to 2022. It rose from \$136 billion in 2021 to \$158 billion in 2022. While their gross profit had an increase of near 5%.

General Motors' Total revenue for 2022 was \$156 billion, an **23.4% increase** from the previous year. With a 17% increase in gross profit.

However, both companies saw an increase in net debt with a percent change of more than 3%, meaning they have accumulated more debt over the past 12 months.

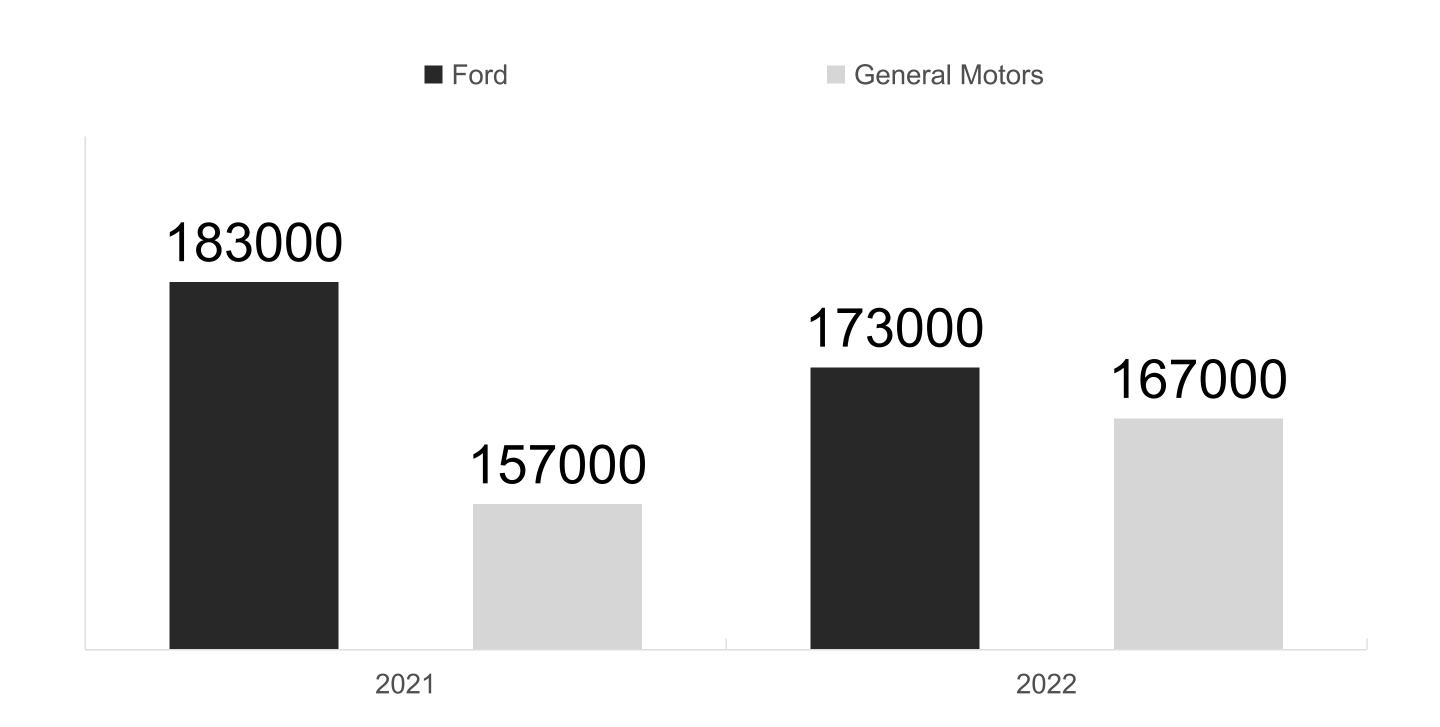




Number of Employees: 2021 - 2022

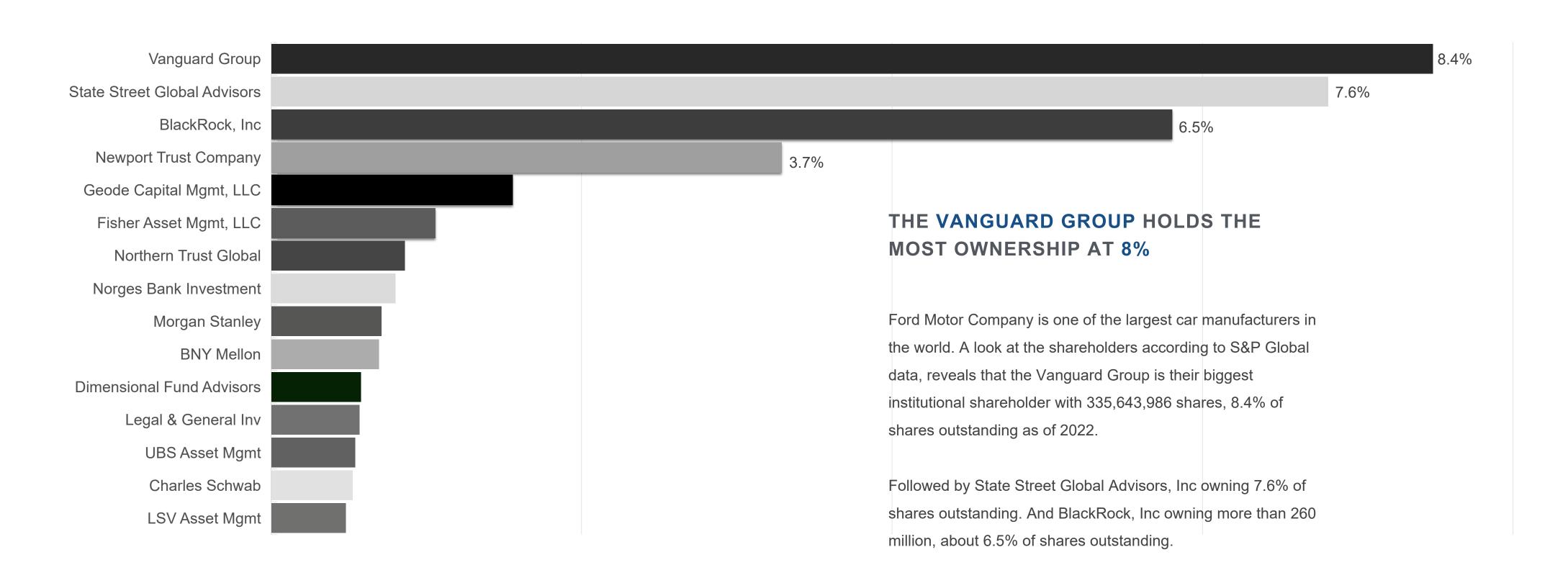
The number of employees in two of the largest automotive brands in the United States are more than 100,000.

Ford saw a decrease of 5% from the previous year, while GM employed more full time workers increasing their workforce by 6% in 2022.





A look at the shareholders of Ford Motor company





Who owns General Motors?



VANGUARD, BLACKROCK, BNY MELLON, AND STATESTREET GLOBAL ARE AMONG THE TOP 15 INSTITUTIONS THAT HAVE SUBSTANTIAL OWNERSHIP IN BOTH FORD AND GM.



Are stock prices correlated to trading volumes?

The stock prices and trading volumes of both Ford and General Motors are evaluated to see if a relationship exists.

Variable 1: Trading Volume

Trading Volume is the amount of security that was traded during a given period of time. (Investopedia)

Variable 2: Stock Price

Stock Price refers to the current price that share of stock is trading for on the market. (Corporate Finance Institute)



FORD MOTOR COMPANY

P = 0.45

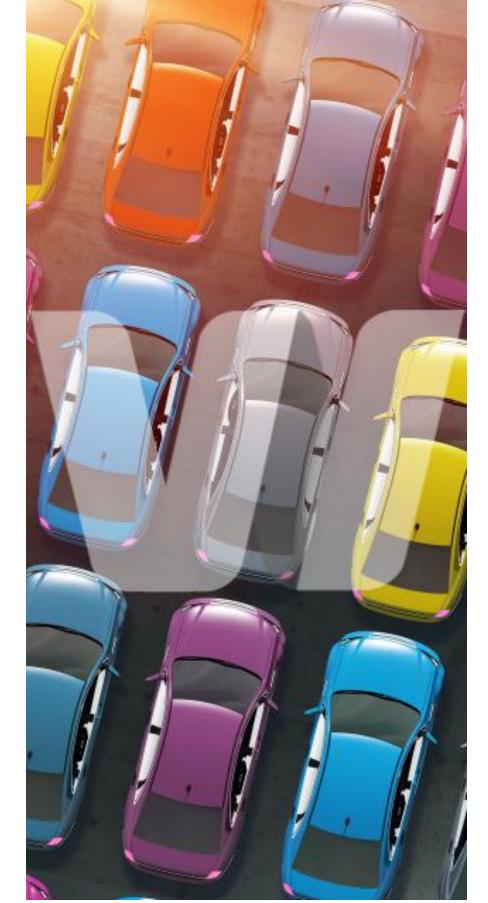
With a Pearson correlation value of 0.45, there is a positive and moderate relationship between trade volume and stock price for Ford Motor Company. This means there is room to believe that as the stock prices go up, then trading volumes increase.

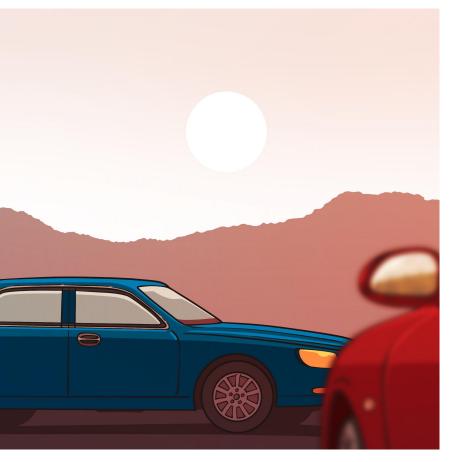
GENERAL MOTORS COMPANY

P = 0.19

With a Pearson correlation value of 0.19, there is a positive and weak relationship between the two variables for General Motors' Company. The coefficient here is quite low.









DAYS INVENTORY
OUTSTANDING

COST OF GOODS SOLD

X 365

Inventory Analysis

	2021	2022	
Ford	38.40	38.25	DAYS INVENTORY OUTSTANDING
General Motors	47.12	44.19	

According to Investopedia, The days inventory outstanding ratio is calculated as inventory divided by the cost of goods sold (COGS) and then multiplied by 365.

This ratio measures the average number of days a company holds inventory before selling it.
 Holding unsold inventory is costly.

The ratio of inventory for Ford has remained relatively the same around 38 in the past two years and has slightly decreased for General Motors from 47 to 44.

Overall, the ratio has not increased over time for both automakers, which signifies that these companies are managing their inventory quite well.

Resources

LINKS TO RESOURCES OF FORMULAS & DEFINITIONS

- Trading Volume Definition: Investopedia.com
- Stock Price Definition: Corporate Finance Institute
- Days Inventory Outstanding Formula: <u>Investopedia.com</u>
- S&P Global Data

Analysis of Ford and GM were conducted in Databricks using SQL and Python, and further visualizations and correlations were performed in R.

