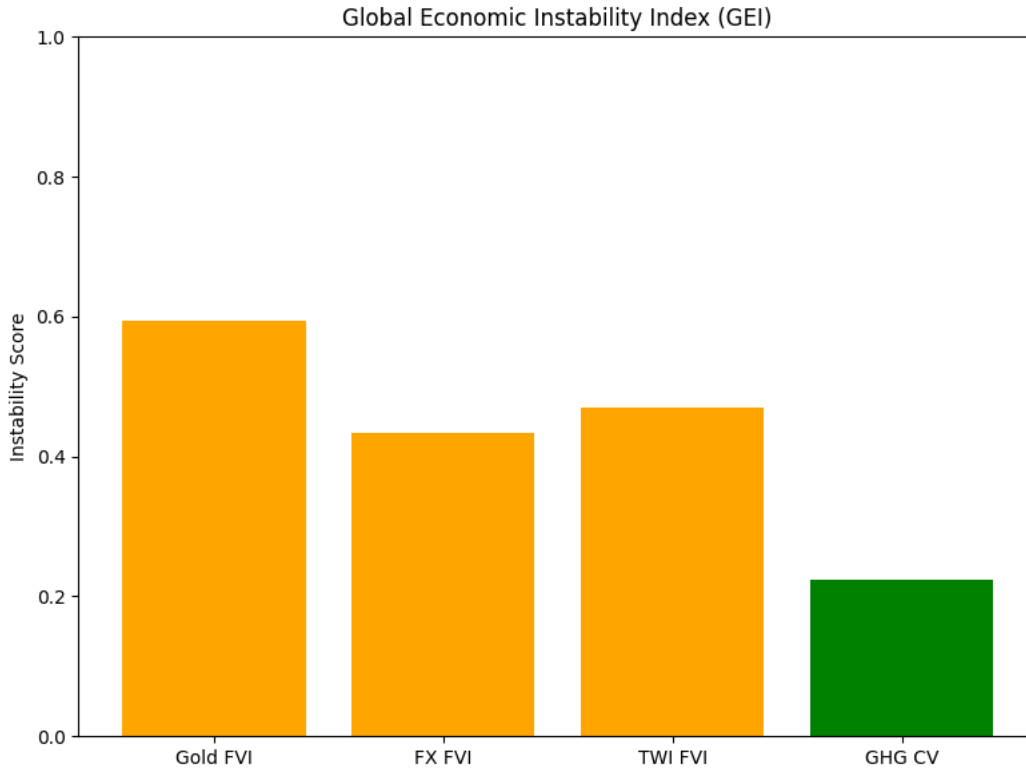


**Fractal Volatility Index for GOOGL : 0.365. Market Wide FVI:0.478**  
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



## Global Geopolitical Volatility



Red: High Risk FVI zone, Orange: Medium Risk FVI zone, Green: Low Risk FVI zone

## Verv Stock Analysis Report: Alphabet Inc Class A GOOGL FVI 0.365

Analysis Period: 2021-06-17 to 2026-06-17

### Global Geopolitical Fractal Volatility (Gold, Forex, TWI (Tariffs) and GHG Emissions)

FVI\_GOLD: 0.593608 => Moderate gold volatility, likely reflecting investor caution

FVI\_FX: 0.434301 => Low FX volatility; currency markets stable for now

FVI\_TWI: 0.469352 => Moderate TWI volatility; minor export/import fluctuations

GHG CV: 0.223036 => Moderate emissions volatility; sector-level uncertainty exists

Primary Risk Driver: Gold volatility is a good proxy for global geopolitical risk. 0.593608.

The Fractal Volatility Index (FVI) is scaled between 0 and 1 reflecting the stock's overall volatility. A higher score indicates greater unpredictability and market instability.

Unlike traditional volatility indicators like VIX or Beta, FVI does not track short-term fluctuations—it detects hidden instability before it manifests in price swings.

FVI is a composite score that incorporates Lyapunov Exponent, Hurst Exponent, and Detrended Fluctuation Analysis (DFA).

### Breakout Probability Score (BPS): 0.832

Breakout Probability Score (BPS) quantifies price momentum likelihood: BPS > 1.5 suggests high breakout potential, while BPS < 0.5 indicates consolidation.

(BPS > 1.5 High breakout potential - Strong momentum, watch for confirmation.)

(BPS 0.5 - 1.5 Moderate breakout likelihood - Possible move, monitor closely.)

(BPS < 0.5 Low breakout probability - Likely consolidation or range-bound.)

Request ID: FVI

Account ID: WeeklyReport

### Fractal & Statistical Analysis

FVI Score: 0.365 (Fractal Volatility Index FVI)

DFA Result: 0.4783 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0143 (Measures chaos and predictability)

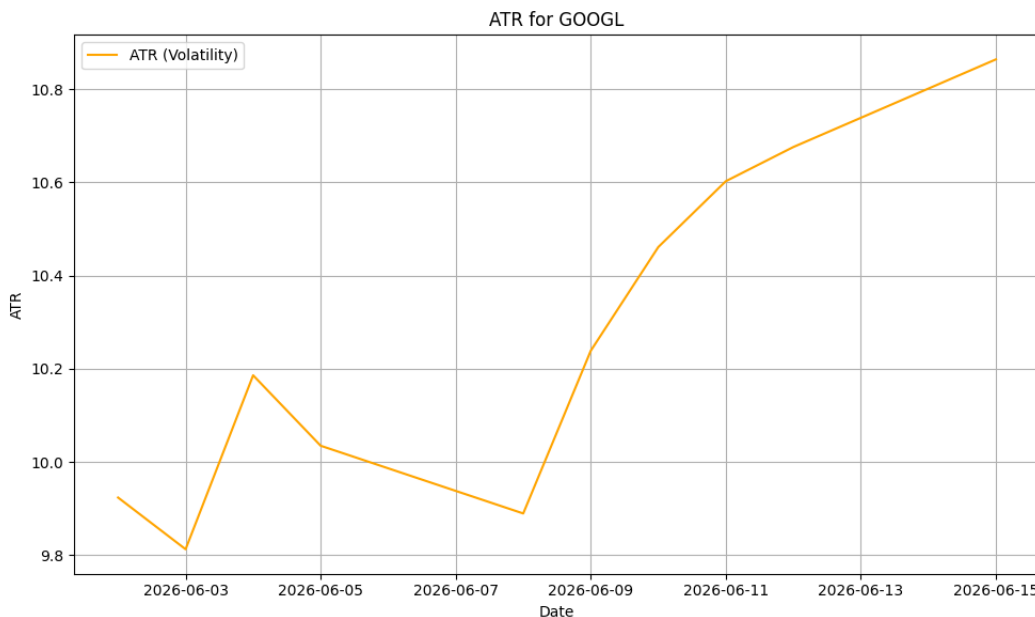
Hurst Exponent: 0.4733 (Indicates trending or mean-reverting behavior)

### Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 369.35 is within the Bollinger Bands range (349.19 - 400.91).

Latest ATR: 10.8641

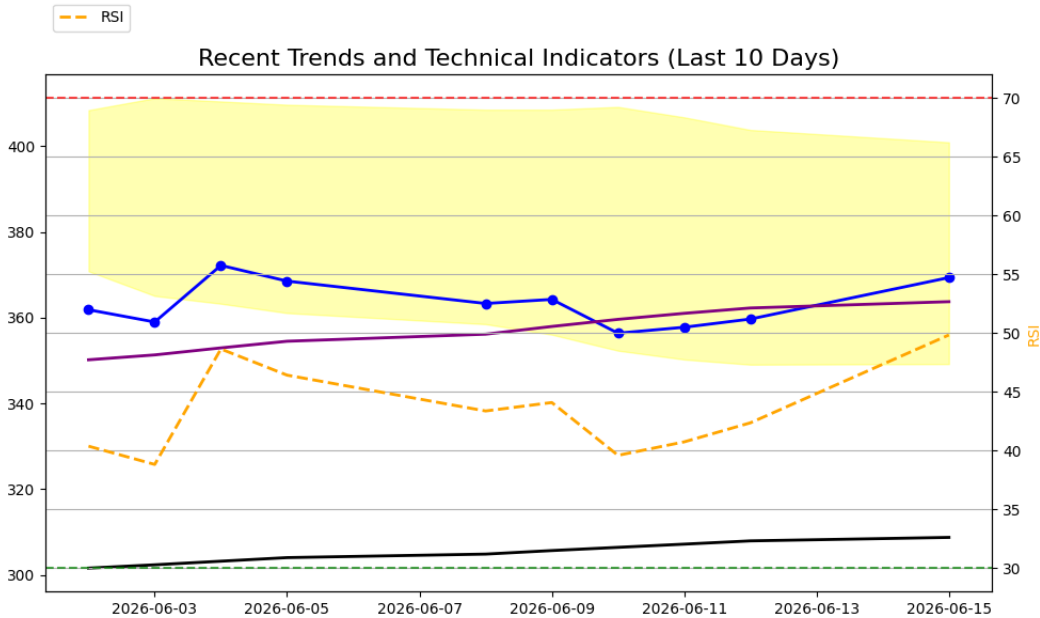
### Average True Range (ATR)



The ATR measures the recent price volatility of a stock, calculating the average range between its high and low prices over a given period (usually 14 days). A higher ATR indicates greater market volatility, and a lower ATR indicates less volatility.

Low ATR (below 2): Stable stock, Moderate ATR (2-5): Mild volatility, High ATR (above 5): Highly volatile stock

# Technical Indicators



Left y axis - Stock Price. Right y axis - RSI range values (30 - 70)

**Close Price**(blue line with circles) - Key indicator of the stock's price action and is often used to identify trends or patterns. A rising close price generally indicates an upward trend, while a falling close price shows a downward trend.

**SMA\_50 and SMA\_200** - (purple line SMA\_50, black line SMA\_200) Simple Moving Averages (SMA) calculated over 50 and 200 periods. Helps identify the direction of stock price trend.

**Bollinger Bands** - (shaded in yellow): Bollinger Bands consists of upper, middle and lower prices. The middle line is the moving average. Price reaching the upper band can indicate an overbought condition, suggesting the stock might be due for a pullback. Price touching the lower band could indicate an oversold condition, suggesting a potential buying opportunity. When the price moves outside the bands, it may indicate extreme conditions.

**Relative Strength Index RSI** - (orange dotted line): The RSI is a momentum oscillator that measures the speed and change of price movements. An RSI above 70 suggests the stock is overbought and might be due for a pullback. An RSI below 30 suggests the stock is oversold and might be due for a rebound. An RSI in between indicates a more neutral market condition.

# AI-Generated Market Insights

## Investment Report:

Based on the given data from June 17, 2021, to June 17, 2026, here are the insights for Google's stock (GOOGL):

- 1. Volatility & Breakout Potential:** The stock's FVI of 0.365 suggests moderate volatility, while the Lyapunov of 0.014 indicates relative stability compared to the market. The BPS of 0.832 suggests a potential for breakout, but the lack of volume change (-0.77%) may not confirm this. The stock is within the Bollinger Bands range, indicating a lack of strong breakout signals.
- 2. Market Sentiment:** The large trading volume suggests institutional-driven behavior. The moderate volatility and potential for breakout may indicate a mixed investor mood.
- 3. Geopolitical Risk Assessment:** The stock may be exposed to global stress indicators, such as Gold, FX, and TWI FVI. Given the lack of a sector sensitivity score, it's difficult to assess the exposure to energy, transport, and emissions volatility. The stock may also have tariff exposure due to Google's global operations.
- 4. Sector and Supply Chain Exposure:** Google operates in the tech sector, which may depend on Asia-sourced components. The company may be exposed to volatility in these inputs. However, Google's operations are diverse and not solely dependent on physical resources, which may mitigate some of these risks.

**Strategy Recommendation:** Given the moderate volatility, potential for breakout, but lack of volume change, a cautious approach would be advisable. The BPS and FVI patterns suggest a potential breakout, but the lack of strong signals may require further confirmation.

**Final Takeaway:** "Moderate volatility with potential for breakout but lack of volume change—proceed with caution."

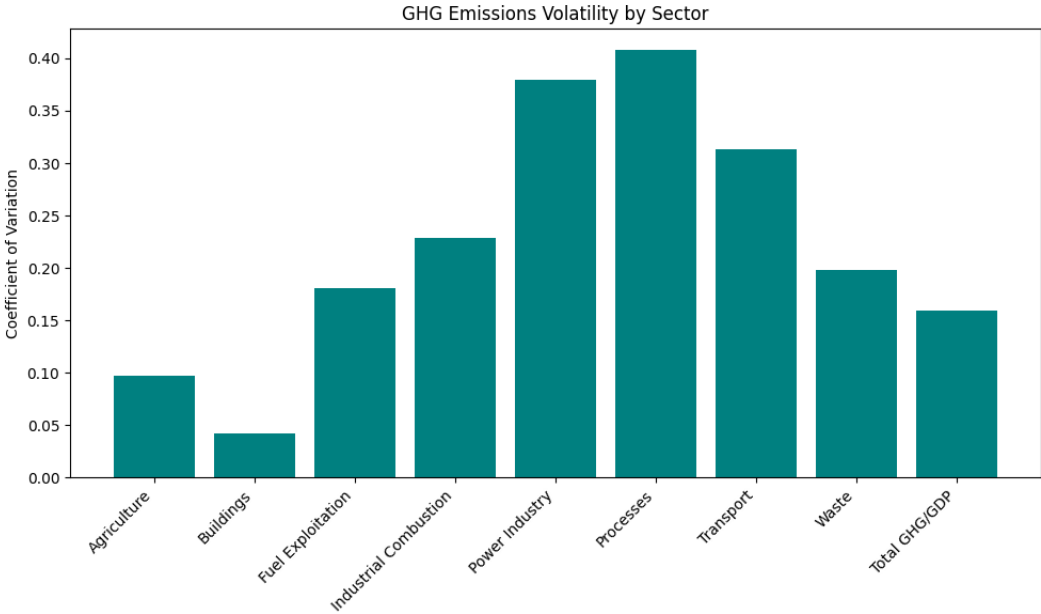
Market Capitalization: 4386274148000, Industry: INTERNET CONTENT & INFORMATION, Latest Volume: 27727493, Description: Alphabet Inc Class A, Sector: COMMUNICATION SERVICES, Price to Book: 9.16, Trailing PE: 27.48, Forward PE: 25.51, Enterprise to Ebitda: 19.84, Enterprise to Revenue: 10.28, Profit Margins: 0.379

The trading volume has changed by -0.77% over the past week, indicating potential shifts in market sentiment. Please factor this into the volatility and risk analysis.

Beta measures stock volatility relative to the overall market: 1.24

Beta of 1.24 suggests high volatility compared to the market.

### Volatility Indicators of GHG Emissions by Industry and GDP



No GHG score available for Communication services sector.

Disclaimer: The Fractal Volatility Index (FVI) measures structural market instability, not short-term price direction. High FVI (red dot) does not necessarily indicate a price breakout—rather, it signals unpredictable price behavior and potential structural shifts. While market instability can precede significant moves in either direction, Verv Stock Reports do not predict price trends but offer insight into underlying volatility patterns. Investors should interpret FVI alongside fundamental and technical analysis before making decisions.

# Stock Market Price Credibility Report

Analysis based on current global macroeconomic and geopolitical information.

Market\_Price\_Credibility\_Analysis:

```
{  
  "Final_Score": 0.185,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.998,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "Rates are low, truth is lower."  
}
```

Reasoning:

The NRDl score of 0.7 indicates a significant disconnect between the economic narratives and the underlying fiscal, monetary, and geopolitical realities. This is due to a variety of factors:

1. The rising U.S. debt and deficit levels are often downplayed in economic narratives, despite the potential long-term risks they pose to the economy.
2. Changes in U.S. Treasury bond yields and issuance, as well as reports of declining foreign demand for U.S. bonds, suggest a shift in global confidence in the U.S. economy. This is often glossed over in economic discussions.
3. Central bank interventions, such as rate cuts and quantitative easing, are often presented as necessary measures to stimulate the economy, but they can also be seen as attempts to artificially inflate market values.
4. The use of tariffs and sanctions as economic tools is often portrayed as a strategic move, but it can also lead to trade wars and economic instability.
5. The disparity between inflation and official interest rate policy suggests that the economic narrative does not fully reflect the complexities of the current economic situation.
6. The growing influence of the BRICS+ countries and the trend towards de-dollarization are often overlooked in economic narratives, despite their potential to reshape the global economic order.
7. The volatility of gold and its use as a geopolitical hedge is often downplayed in economic discussions, despite its potential to impact market stability.

The Trumpery Alert is true due to the presence of manipulative or performative policymaking, such as the use of tariffs and sanctions as economic tools and the central bank interventions. The Satirical Summary reflects this, suggesting that the market forces are being manipulated and that the economic narrative is not fully aligned with the underlying realities.

## Deception Risk:

Between 0 and .2, markets appear fundamentally sound, no price distortion.

Between .2 and .4 there may be some irrationality or manipulation. Caution is advised.

Between .4 and .6 there are signals of disconnect between narratives and reality.

Between .6 and .8 distortions mean possible financial gaslighting.

Between .8 and 1 signals a confidence scam - you are being sold a bridge.

## What Price Credibility Sell You a Bridge Index captures:

Price to Volume Divergence PVD.' When price rises while volume drops is suspicious behavior.

A Narrative Reality Dislocation Index NRDIndex is an AI score for disconnect between corporate statements and underlying fundamentals.

A Volatility Persistence Score VPI. When volatility indicators stay low despite geopolitical/economic chaos.

The Macro Score includes Tariff Impact Denial. High tariffs plus high exposure plus rising stock. This may be a trumperry illusion alert.

Treasury Detector TFD Liquidity Masking Metric. Fed/Treasury injections may be affecting retail activity or debt spreads.

The Media Sentiment Mismatch is included. This is where news tone is contrary to actual market data (e.g. bullish despite bond collapse).

Note: Trumperry derives from a French word meaning to deceive, in many dictionaries showy but worthless.

\_\_\_\_\_ **END OF REPORT** \_\_\_\_\_