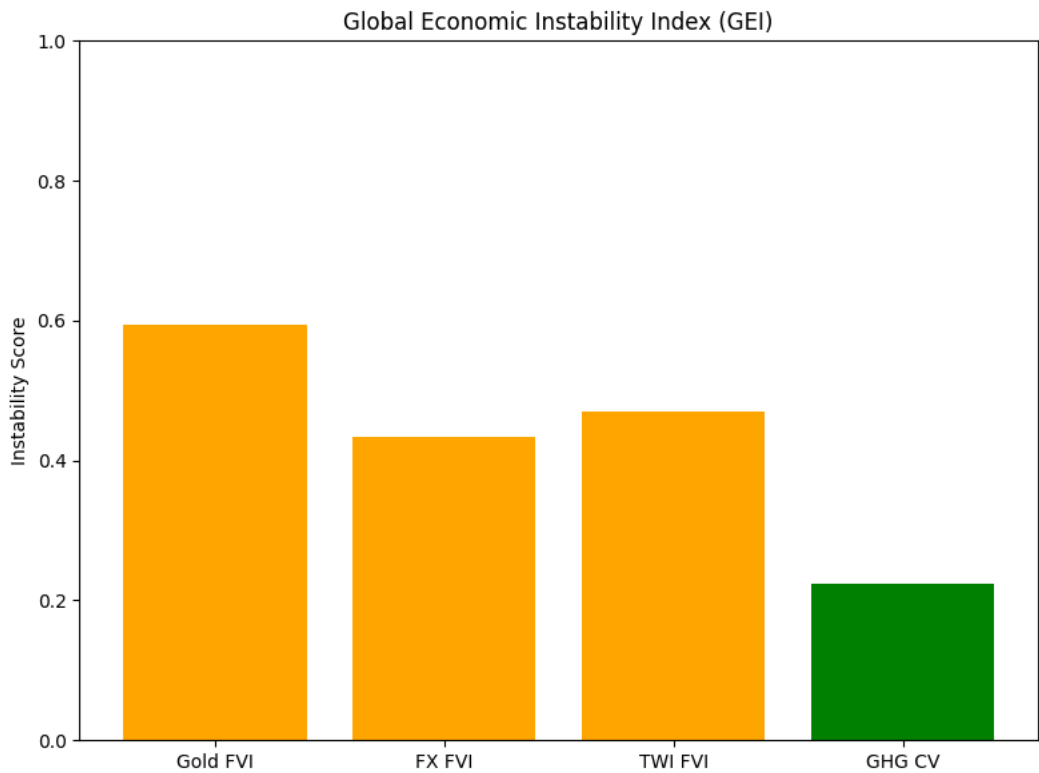


Fractal Volatility Index for JNJ : 0.552. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



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

Verv Stock Analysis Report: Johnson & Johnson JNJ FVI 0.552

Analysis Period: 2021-07-15 to 2026-07-15

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): 0.542

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: 0.552 (Fractal Volatility Index FVI)

DFA Result: 0.5044 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0166 (Measures chaos and predictability)

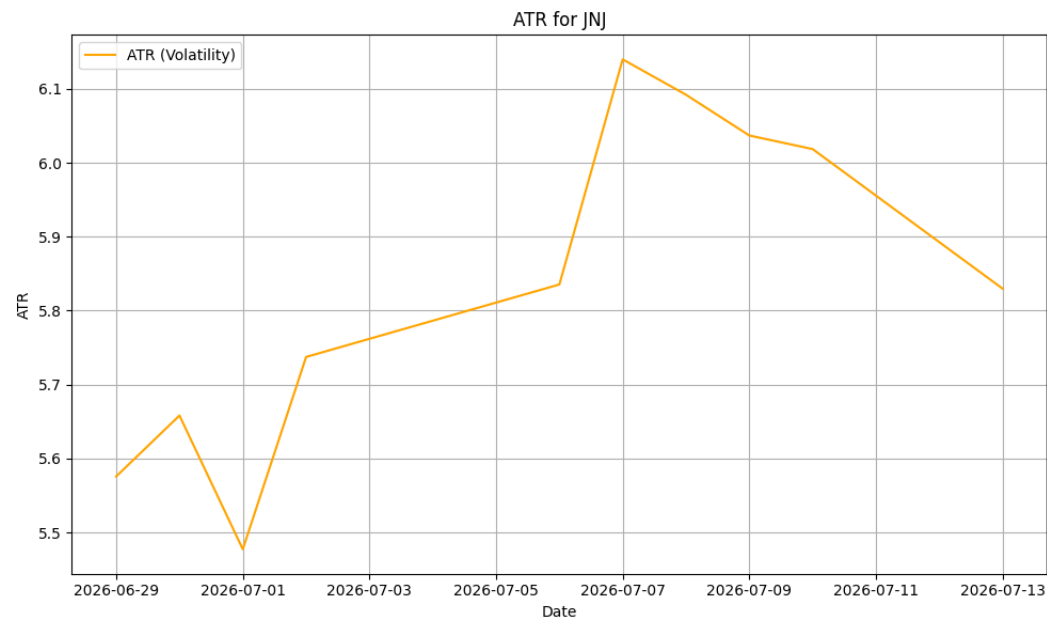
Hurst Exponent: 0.5233 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 257.77 is within the Bollinger Bands range (225.13 - 272.72).

Latest ATR: 5.8298

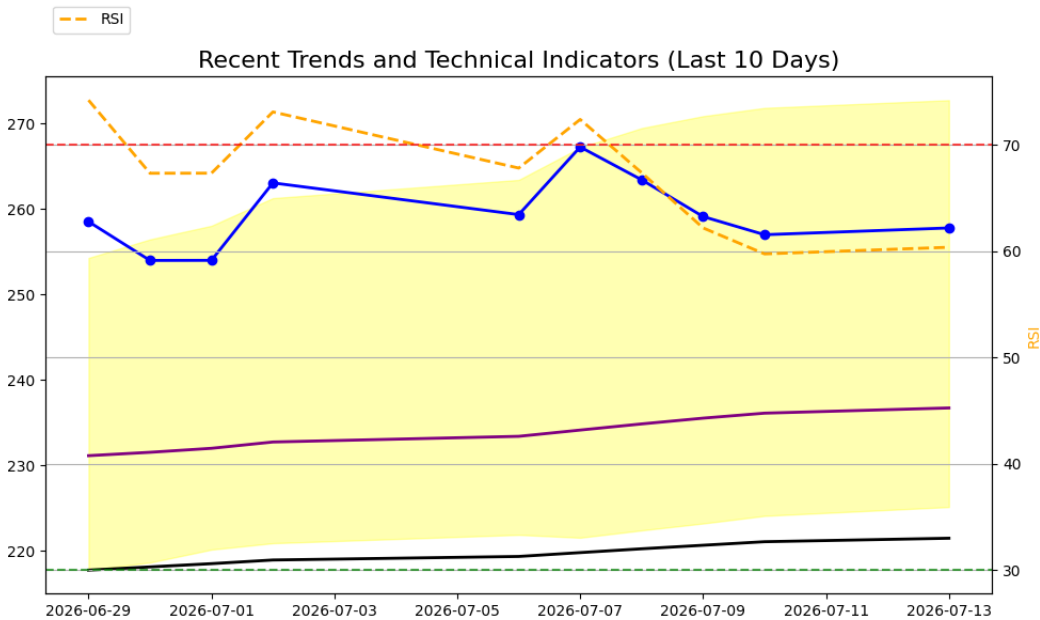
Average True Range (ATR)



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:

--- INVESTMENT REPORT ---

1. Volatility & Breakout Potential

- JNJ seems to be in a state of relative stability with a moderate FVI of 0.552, suggesting a balance between acceleration and noise in its price movements.
- The Lyapunov value of 0.017 is relatively low, indicating less systemic instability compared to the market-wide values.
- The Bollinger Bands are currently within a stable range, and the negative volume change does not confirm a strong price move, suggesting a lack of strong breakout potential.

2. Market Sentiment

- The large volume of 618606625000 suggests substantial institutional activity. However, the lack of strong breakout signals and negative volume change indicate a cautious or even bearish sentiment among investors.

3. Geopolitical Risk Assessment

- The high Market Wide Gold FVI indicates increased geopolitical tension and potential economic instability.
- The Healthcare sector, where JNJ operates, has a low GHG impact score, suggesting less exposure to sectoral emissions risk.
- However, as a global company, JNJ might be vulnerable to global trade disruptions indicated by the TWI FVI.

4. Sector and Supply Chain Exposure

- As a healthcare company, JNJ is less likely to be directly affected by energy price shocks or supply-side inflation risk. However, its global supply chain could be impacted by trade disruptions or geopolitical tensions.
- It's also important to consider potential indirect impacts, such as increased costs for energy-intensive inputs or transportation.

--- STRATEGY RECOMMENDATION ---

Given the current market signals, it seems that JNJ is in a consolidation phase with low breakout potential. The optimal strategy would be to follow a mean-reversion approach, given the Hurst value of 0.523. The current BPS and FVI pattern suggest that a strong breakout is not imminent.

--- FINAL TAKEAWAY ---

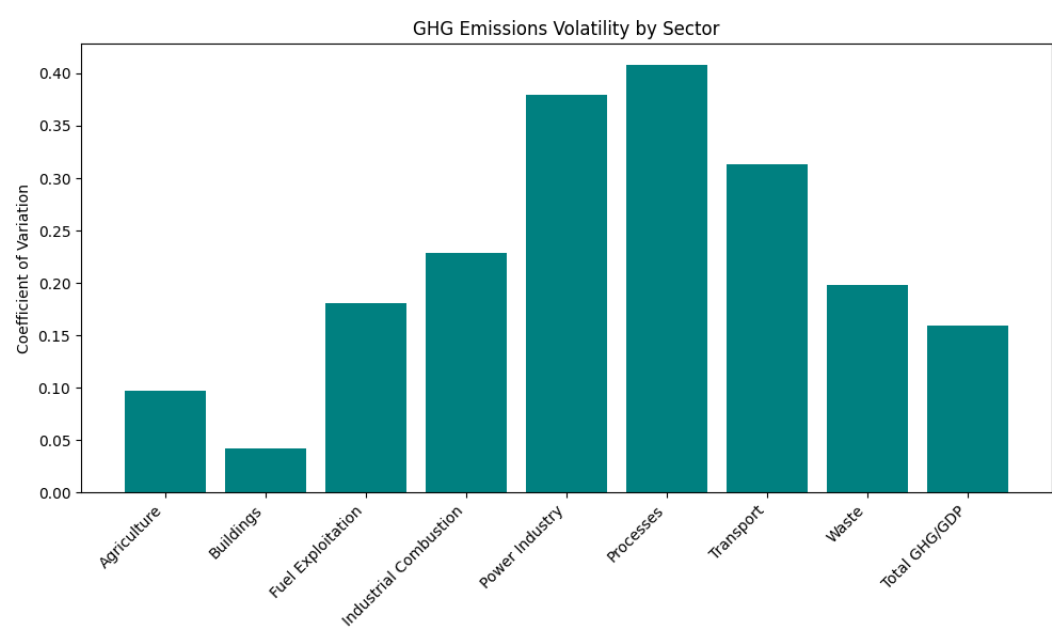
"Amidst geopolitical tension and potential trade disruptions, JNJ presents a stable investment with moderate volatility. However, the lack of strong breakout signals and the negative investor sentiment suggest caution. It's a time for defensive positioning rather than aggressive moves."

Market Capitalization: 618606625000, Industry: DRUG MANUFACTURERS - GENERAL, Latest Volume: 5272240, Description: Johnson & Johnson, Sector: HEALTHCARE, Price to Book: 7.62, Trailing PE: 29.78, Forward PE: 22.22, Enterprise to Ebitda: 19.33, Enterprise to Revenue: 6.76, Profit Margins: 0.218

The trading volume has changed by -22.51% 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: 0.23
Beta of 0.23 suggests low volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.052) for theHealthcare 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": 0.319,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.231,  
  "Deception_Risk": 0.731,  
  "Trumperry_Alert": true,  
  "Summary": "If you believe this rally, we've got beachfront property on the moon."  
}
```

This suggests a significant disconnect between the economic narrative and the underlying fiscal, monetary, and geopolitical realities, with potential evidence of manipulative or performative policymaking.

.

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

_____ **END OF REPORT** _____