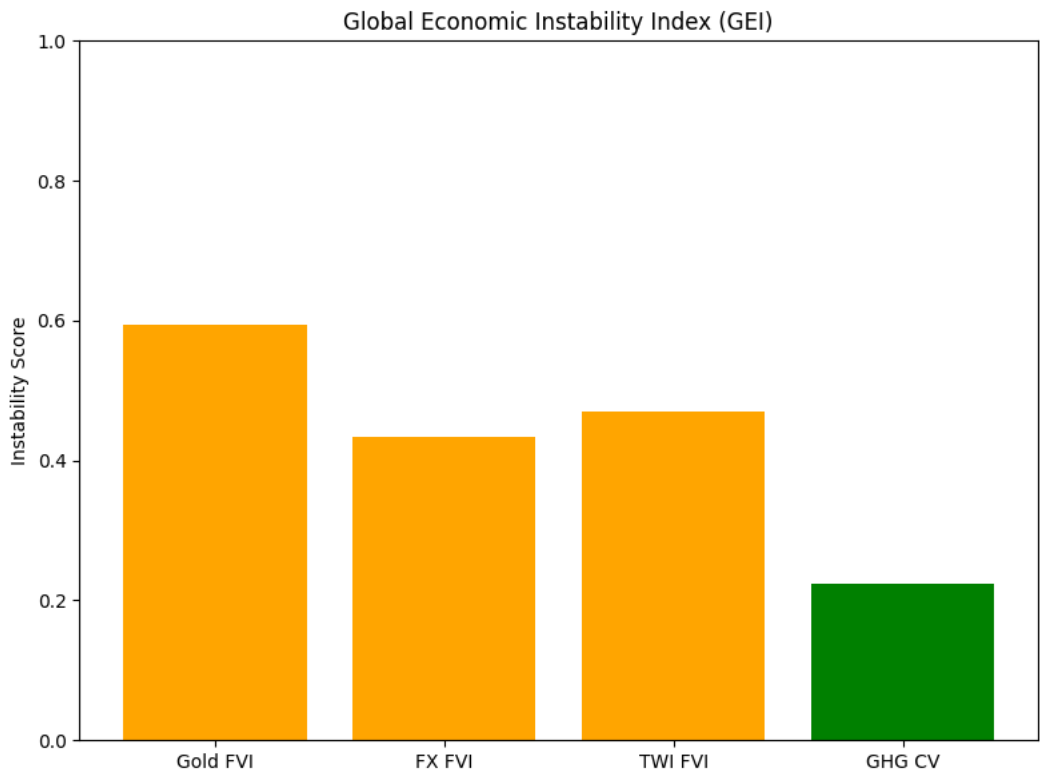


Fractal Volatility Index for AMD : 0.595. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



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

Verv Stock Analysis Report: Advanced Micro Devices Inc AMD FVI 0.595

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): -0.768

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

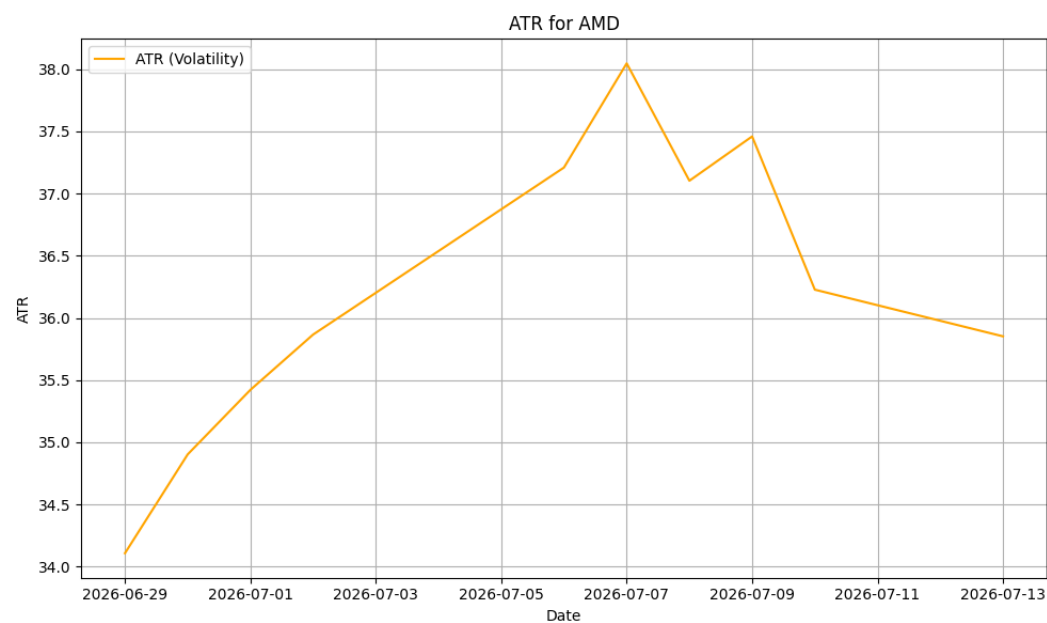
Fractal & Statistical Analysis

FVI Score: 0.595 (Fractal Volatility Index FVI)
DFA Result: 0.4663 (Detrended Fluctuation Analysis)
Lyapunov Exponent: 0.0174 (Measures chaos and predictability)
Hurst Exponent: 0.5374 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 534.39 is within the Bollinger Bands range (496.05 - 570.45).
Latest ATR: 35.8518

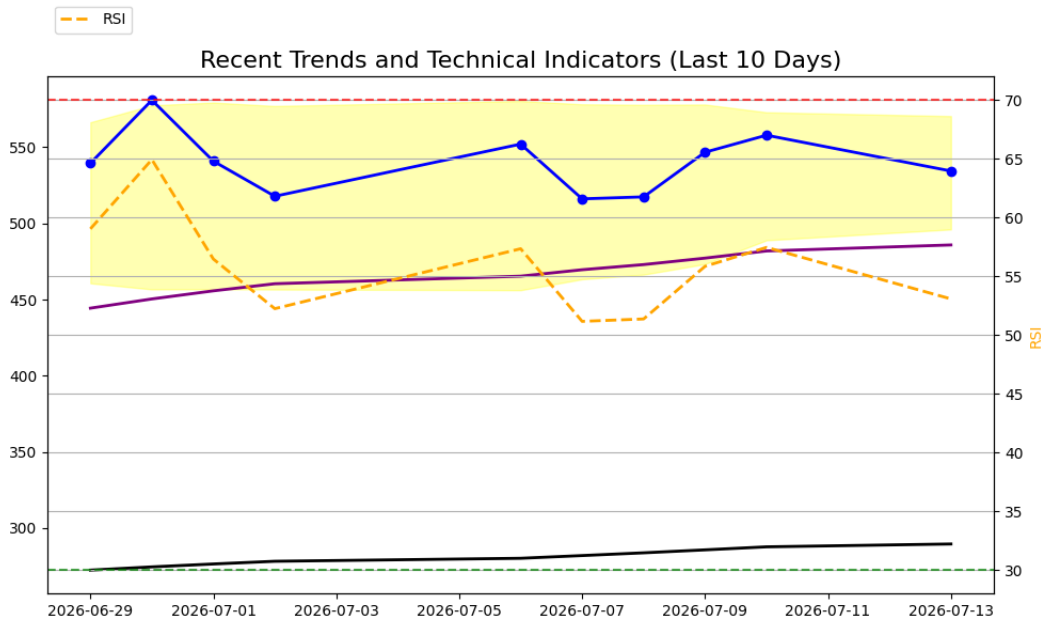
Average True Range (ATR)



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

AMD's FVI of 0.595 indicates a moderate level of volatility. The Lyapunov value of 0.017 suggests the stock is relatively stable compared to market-wide instability. The stock's BPS of -0.768 indicates that the potential for a strong breakout is low. The contraction in Bollinger Bands suggests a period of consolidation. The negative stock volume change of -25.18% does not confirm price moves, indicating a lack of investor confidence.

2. Market Sentiment

The market sentiment for AMD appears to be driven by institutional investors, as indicated by the 909695779000 value. The lack of a strong breakout signal and the negative volume change suggest a cautious investor mood.

3. Geopolitical Risk Assessment

AMD's low GHG impact score of 0.048 indicates a low sectoral emissions risk exposure. However, the elevated market-wide FVI indicators suggest a bearish or fragile regime. The Gold, FX, and TWI FVI values suggest geopolitical stress and potential global trade disruptions. AMD's exposure to these risks will need to be evaluated further, especially considering its potential dependency on globalized supply chains.

4. Sector and Supply Chain Exposure

As a tech company, AMD may be dependent on Asia-sourced components such as semiconductors. This exposes the company to potential supply-side inflation risk tied to trade instability. The company's low GHG impact score suggests a low exposure to climate-related regulation.

4. Strategy Recommendation

Given the current market conditions and AMD's stock metrics, a defensive strategy is recommended. The stock is in a consolidation phase, and the lack of a strong breakout signal and negative volume change suggest a high risk of a false breakout.

--- FINAL TAKEAWAY ---

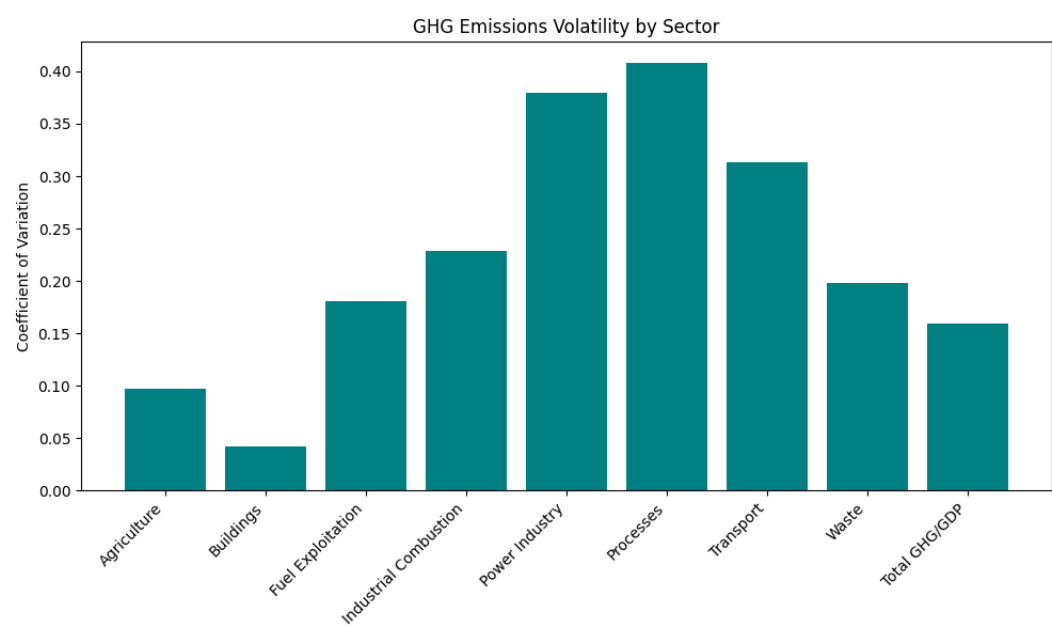
"AMD is experiencing moderate volatility and institutional-driven behavior, with a low potential for a strong breakout. Given the current geopolitical stress and potential global trade disruptions, a defensive position is recommended. Be cautious of a false breakout due to the lack of volume confirmation."

Market Capitalization: 909695779000, Industry: SEMICONDUCTORS, Latest Volume: 22957350, Description: Advanced Micro Devices Inc, Sector: TECHNOLOGY, Price to Book: 14.11, Trailing PE: 185.35, Forward PE: 79.37, Enterprise to Ebitda: 111.45, Enterprise to Revenue: 24.06, Profit Margins: 0.134

The trading volume has changed by -25.18% 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: 2.47
Beta of 2.47 suggests high volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for theTechnology 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": 0.441,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": 0.091,  
  "Deception_Risk": 0.846,  
  "Trumpery_Alert": true,  
  "Summary": "New export: Confidence! Made fresh daily from hot air."  
}
```

Explanation:

The NRDl score of 0.8 suggests a significant disconnect between the economic narrative and the underlying fiscal, monetary, and geopolitical realities.

The rising U.S. debt and deficit levels are concerning, especially in light of the changes in U.S. Treasury bond yields and issuance. Furthermore, the reports of declining foreign demand for U.S. bonds could hint at a lack of confidence in the U.S. economy.

Central bank interventions such as rate cuts and QE, while designed to stimulate the economy, can distort market dynamics and lead to asset bubbles. The use of tariffs and sanctions as economic tools is also a cause for concern as they can disrupt global trade and lead to economic instability.

The gap between inflation and official interest rate policy suggests that the economy is not performing as well as the narrative suggests. Furthermore, the influence of BRICS+ and de-dollarization trends can potentially undermine the dominance of the U.S. dollar in the global economy.

Lastly, the volatility in gold prices and the use of gold as a geopolitical hedge reflect the uncertainty and instability in the global economy.

The Trumpery Alert is true due to the manipulative and performative policymaking evident in the use of tariffs and sanctions as economic tools, and the discrepancy between the economic narrative and the underlying realities.

The Satirical Summary, "If you believe this is market forces, we've got a bridge to sell you," humorously underscores the disconnect between the economic narrative and 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 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** _____