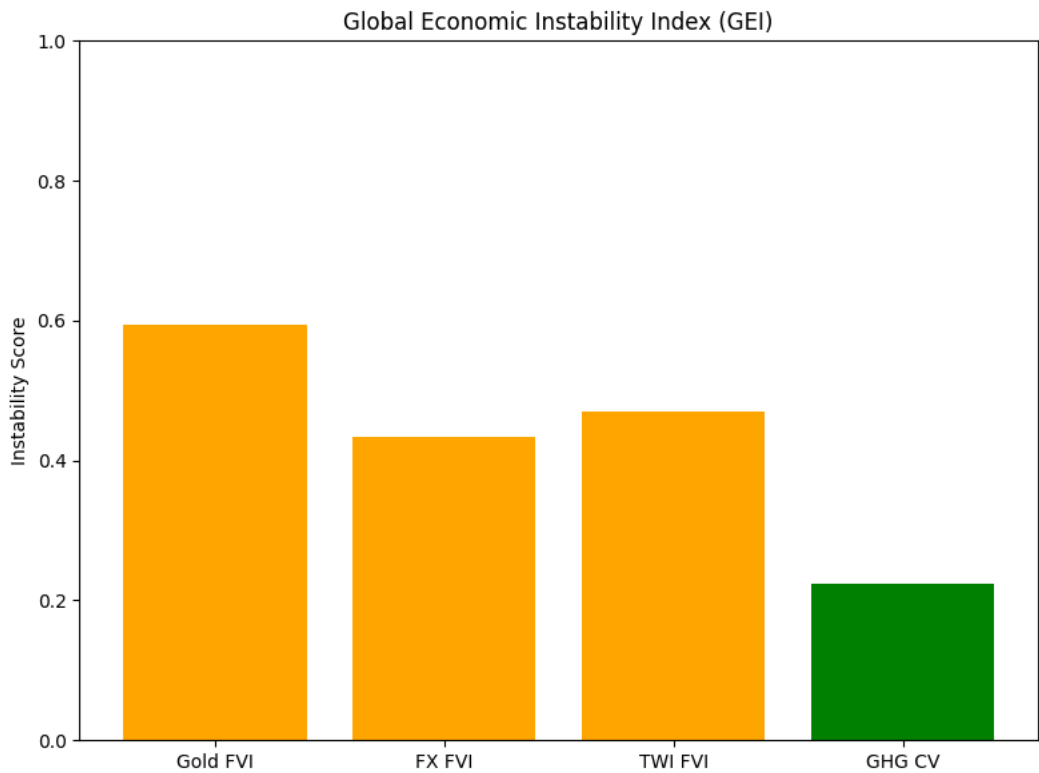


Fractal Volatility Index for APP : 0.579. Market Wide FVI:0.478
(0 - 0.33: Stable, 0.33 - 0.66: Moderate Volatility, 0.66 - 1: High Volatility)



Global Geopolitical Volatility



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

Verv Stock Analysis Report: Applovin Corp APP FVI 0.579

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): 0.974

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: 0.579 (Fractal Volatility Index FVI)

DFA Result: 0.5472 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0163 (Measures chaos and predictability)

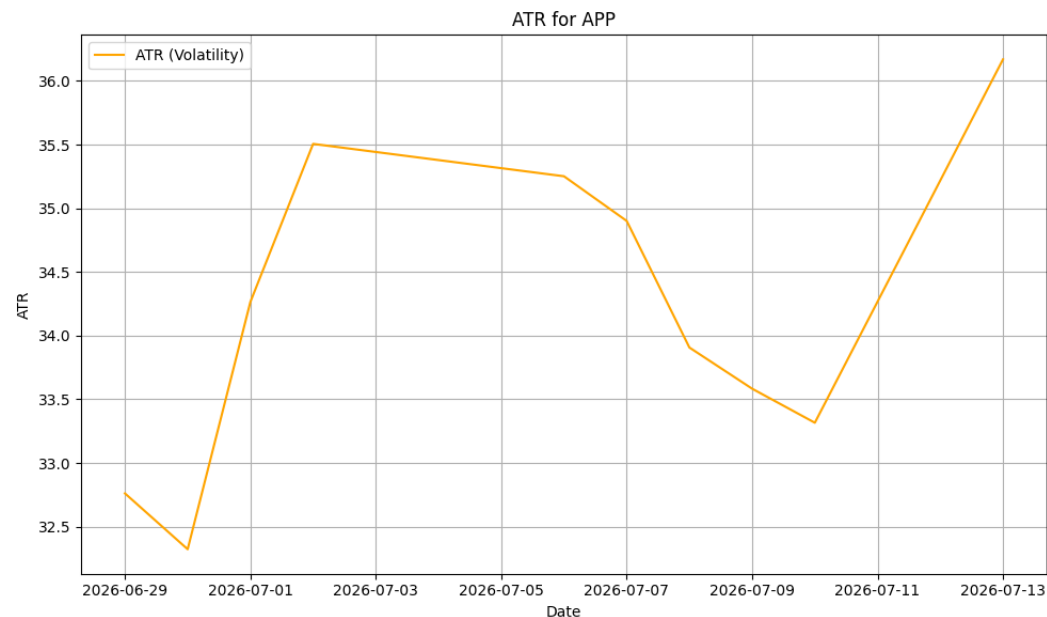
Hurst Exponent: 0.4759 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 442.85 is within the Bollinger Bands range (434.39 - 563.24).

Latest ATR: 36.1697

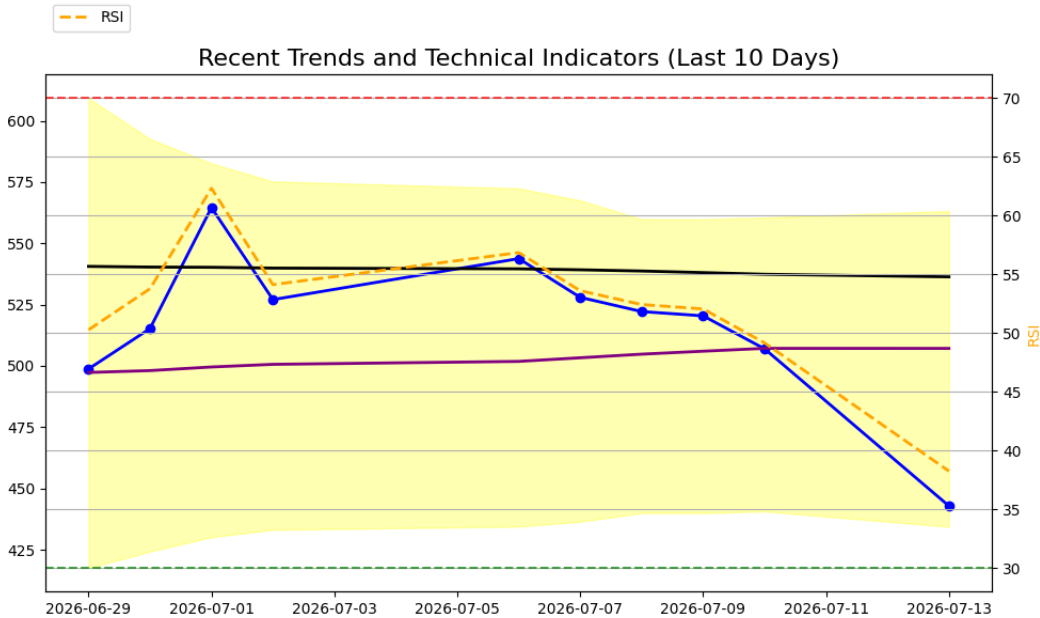
Average True Range (ATR)



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

APP's stock is currently in a regime of stability with a FVI of 0.579, suggesting a moderate level of price fluctuation. Lyapunov index of 0.016 is relatively low, indicating less system chaos and instability. The Bollinger Bands are currently contracting, suggesting a period of decreasing volatility. However, a significant volume change of 78.42% does not confirm price moves, indicating potential noise.

2. Market Sentiment

With a large trading volume, institutional-driven behavior is suggested. The lack of strong breakout signals combined with the moderate FVI suggests a cautious investor mood.

3. Geopolitical Risk Assessment

The elevated market-wide FVI indicators suggest a bearish or fragile regime. Gold, FX, and TWI FVI are all above average, indicating global stress. APP's exposure to these risks is not clear without a sector sensitivity score.

4. Sector and Supply Chain Exposure

As a company in the communication services sector, APP might have some exposure to global inputs and U.S. risk factors. However, without detailed supply chain data, it is difficult to assess the full extent of this risk.

--- STRATEGY RECOMMENDATION ---

Given the current market conditions and APP's performance, a conservative strategy is recommended. The lack of strong breakout signals, combined with the moderate FVI and volume change, suggest that the stock is in a consolidation phase. It might be best to wait for clearer signals before making significant moves.

--- FINAL TAKEAWAY ---

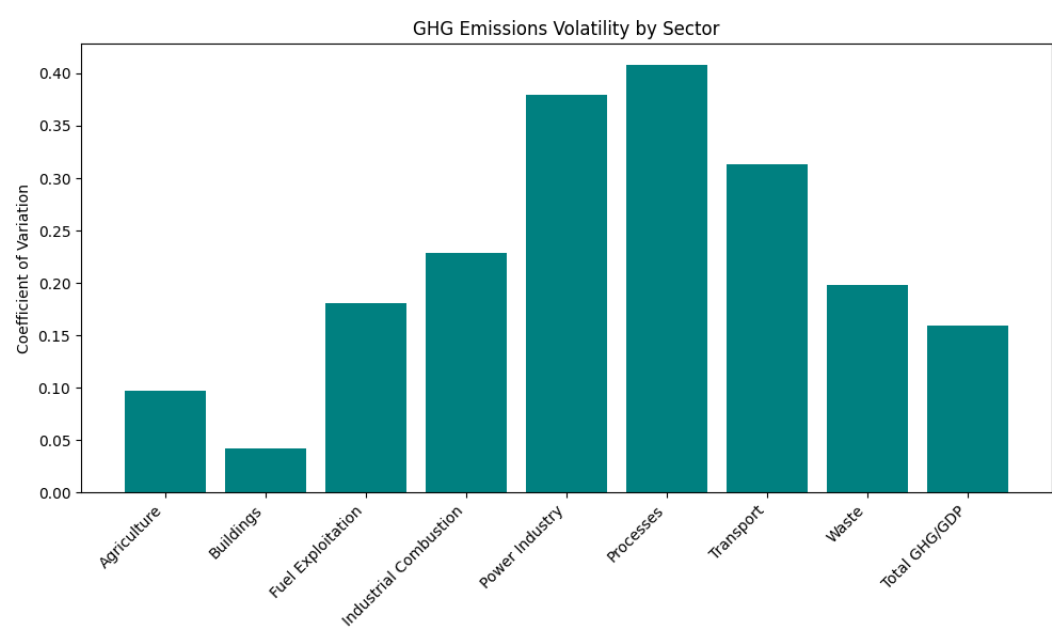
"Moderate volatility with cautious investor sentiment and uncertain geopolitical exposure—position conservatively."

Market Capitalization: 170314629000, Industry: ADVERTISING AGENCIES, Latest Volume: 10345871, Description: Applovin Corp, Sector: COMMUNICATION SERVICES, Price to Book: 72.06, Trailing PE: 44.05, Forward PE: 32.15, Enterprise to Ebitda: 34.6, Enterprise to Revenue: 27.75, Profit Margins: 0.643

The trading volume has changed by 78.42% 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: 2.48
Beta of 2.48 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": 0.235,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.748,  
  "Deception_Risk": 0.769,  
  "Trumperry_Alert": true,  
  "Summary": "Truth is on vacation. Please hold for alternate facts."  
}
```

The NRDl of 0.7 suggests a significant disconnect between economic narratives and underlying fiscal, monetary, and geopolitical realities.

Rising U.S. debt and deficit levels continue to be a concern, but the narrative often downplays their potential long-term impacts. Changes in U.S. Treasury bond yields and issuance, along with reports of declining foreign demand for U.S. bonds, signal shifting confidence in the U.S. as a safe haven for investments.

Central bank interventions such as rate cuts and quantitative easing (QE) programs have been used extensively, which could create a distorted financial environment and mask underlying economic weaknesses.

The use of tariffs and sanctions as economic tools can lead to unintended consequences and may not always achieve the desired outcomes, pointing to a disconnect between policy and economic reality.

Inflation remains relatively low despite aggressive monetary policy, suggesting that official interest rate policy might not be as effective as it is portrayed.

The influence of BRICS+ nations and ongoing de-dollarization trends indicate a shifting global economic landscape, which is often underrepresented in the narrative.

Gold volatility and geopolitical hedging further suggest that there are significant risks not fully accounted for in the dominant economic narrative.

The Trumperry Alert is triggered due to evident manipulative and performative policymaking, such as the use of tariffs and sanctions as economic tools, and extensive central bank interventions. The Satirical Summary underscores the disconnect between the economic narrative and the underlying realities.

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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 NRD I 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** _____