

Fractal Volatility Index for APP : 0.571. 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 0.571

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): -0.307

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: 0.571 (Fractal Volatility Index FVI)

DFA Result: 0.5325 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0163 (Measures chaos and predictability)

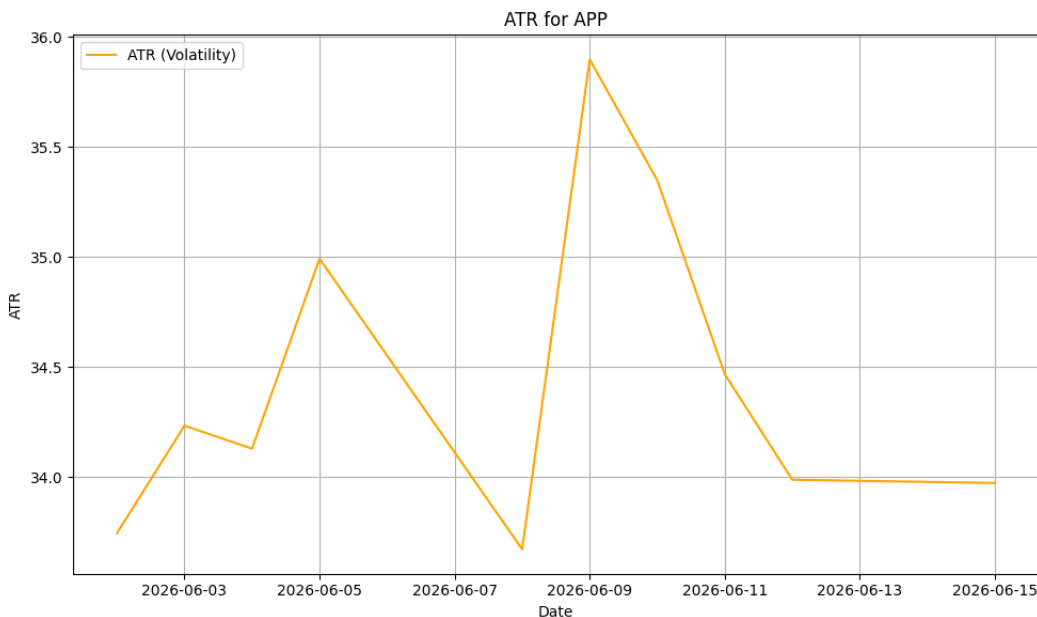
Hurst Exponent: 0.4740 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 520.86 is within the Bollinger Bands range (438.57 - 630.84).

Latest ATR: 33.9724

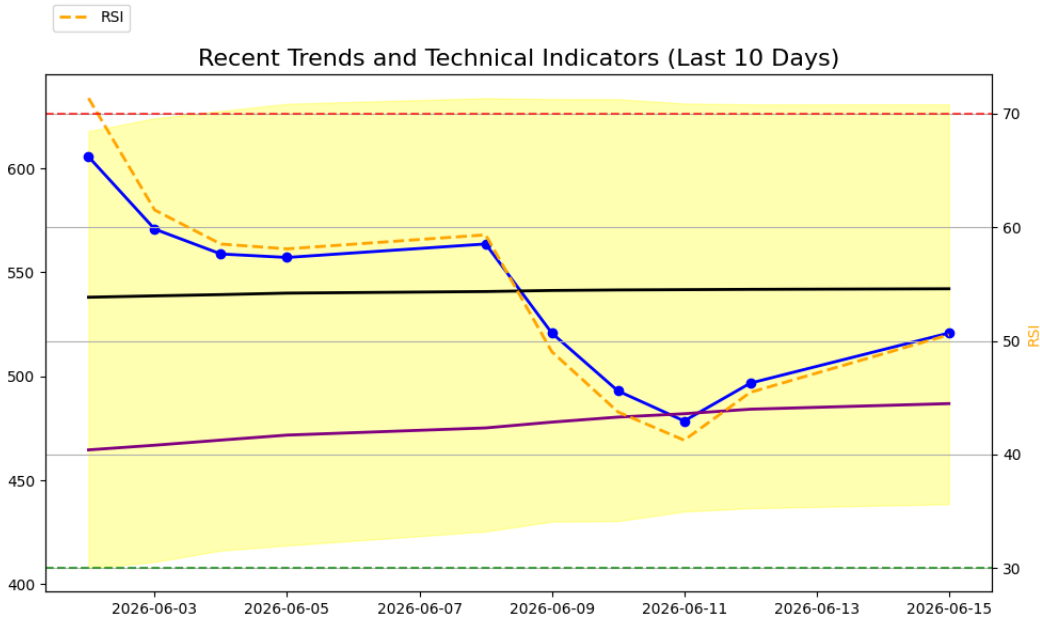
Average True Range (ATR)



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 is showing a moderate level of volatility with a FVI of 0.571, suggesting a regime of relative stability compared to the market-wide volatility regime. The stock's Lyapunov score of 0.016 also indicates less systemic instability than the market average. The Bollinger Bands suggest a potential for price fluctuation within the range of 438.57 - 630.84. However, the volume change of 93.04% does not confirm a strong price move, indicating that the stock might be in a consolidation phase.

2. Market Sentiment:

The high trading volume of 166884671000 suggests institutional-driven behavior, indicating a potential bullish sentiment. However, the lack of a strong breakout signal and the current market-wide volatility regime necessitate a cautious interpretation of these signals.

3. Geopolitical Risk Assessment:

Given the current high levels of Gold, FX, and TWI FVI, there is a high level of global stress which could impact APP's performance. The stock's sector (Communication Services) does not provide a GHG score, making it difficult to assess the company's exposure to sectoral emissions risks. However, given the sector's nature, it is likely to have minimal exposure to tariff risks or supply-chain dependencies.

4. Sector and Supply Chain Exposure:

Being in the Communication Services sector, APP is less likely to be directly impacted by energy price shocks, supply-side inflation risks, or trade instability. However, indirect effects such as increased operational costs due to rising energy prices or disruptions in the global supply chain could impact the company's performance.

--- STRATEGY RECOMMENDATION ---

Given the stock's current volatility and breakout potential, a mean-reversion strategy could be suitable. Despite the moderate FVI and BPS, the lack of a strong breakout signal and the current market-wide volatility regime suggest a potential for price reversal.

--- FINAL TAKEAWAY ---

"Moderate volatility and lack of strong breakout signals in a high market-wide volatility regime—position cautiously with a mean-reversion strategy."

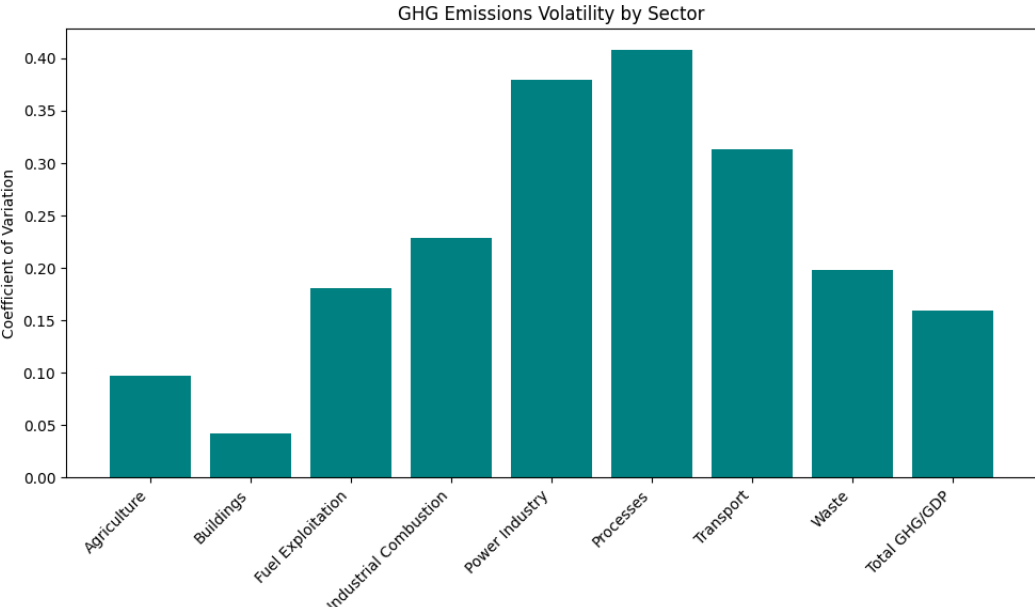
Market Capitalization: 166884671000, Industry: ADVERTISING AGENCIES, Latest Volume: 7521039, Description: Applovin Corp, Sector: COMMUNICATION SERVICES, Price to Book: 70.61, Trailing PE: 43.27, Forward PE: 31.55, Enterprise to Ebitda: 33.91, Enterprise to Revenue: 27.2, Profit Margins: 0.643

The trading volume has changed by 93.04% 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: 2.46

Beta of 2.46 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": 0.208,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": -0.885,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "If you believe this rally, we've got beachfront property on the moon."  
}
```

Rationale:

The rising U.S. debt and deficit levels, coupled with declining foreign demand for U.S. bonds, indicate a significant disconnect between economic narratives and underlying fiscal realities. These factors, along with changes in U.S. Treasury bond yields and issuance, suggest a mismatch between market expectations and the actual state of the economy.

In the monetary sphere, central bank interventions such as rate cuts and quantitative easing (QE) have often been used to stimulate economic activity. However, these measures can distort market signals and create a disconnect between the narrative of economic recovery and the underlying monetary realities.

Geopolitically, the use of tariffs and sanctions as economic tools has increased in recent years. While these measures can be effective in achieving certain policy objectives, they can also contribute to economic uncertainty and volatility, further widening the gap between economic narratives and geopolitical realities.

The inflation rate versus the official interest rate policy also shows a disconnect. Despite low interest rates, inflation has remained stubbornly low, suggesting that traditional monetary policy tools may not be as effective as they once were.

The BRICS+ influence and de-dollarization trends, along with gold volatility and geopolitical hedging, are other indicators of a disconnect between economic narratives and underlying realities. These trends suggest a shift away from the U.S. dollar as the world's reserve currency, which could have significant implications for global economic stability.

Overall, the evidence suggests a significant disconnect between economic narratives and underlying fiscal, monetary, and geopolitical realities. This is reflected in the NRDI score of 0.7. The Trumpery Alert is set to true, indicating the presence of manipulative or performative policymaking. The satirical summary encapsulates this disconnect with the phrase, "If you believe this is market forces, we've got a bridge to sell you."

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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 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** _____