

Fractal Volatility Index for BRZE : 0.342. 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: Braze Inc BRZE FVI 0.342

Analysis Period: 2021-04-22 to 2026-04-22

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): -0.508

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: 0.342 (Fractal Volatility Index FVI)

DFA Result: 0.5051 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0137 (Measures chaos and predictability)

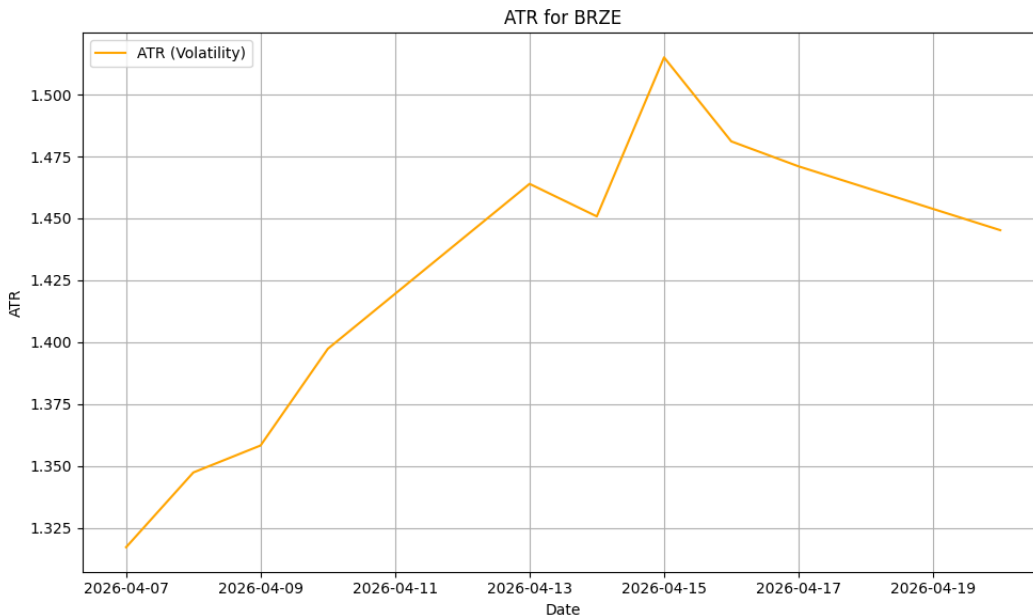
Hurst Exponent: 0.5025 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 23.73 is within the Bollinger Bands range (18.49 - 25.41).

Latest ATR: 1.4452

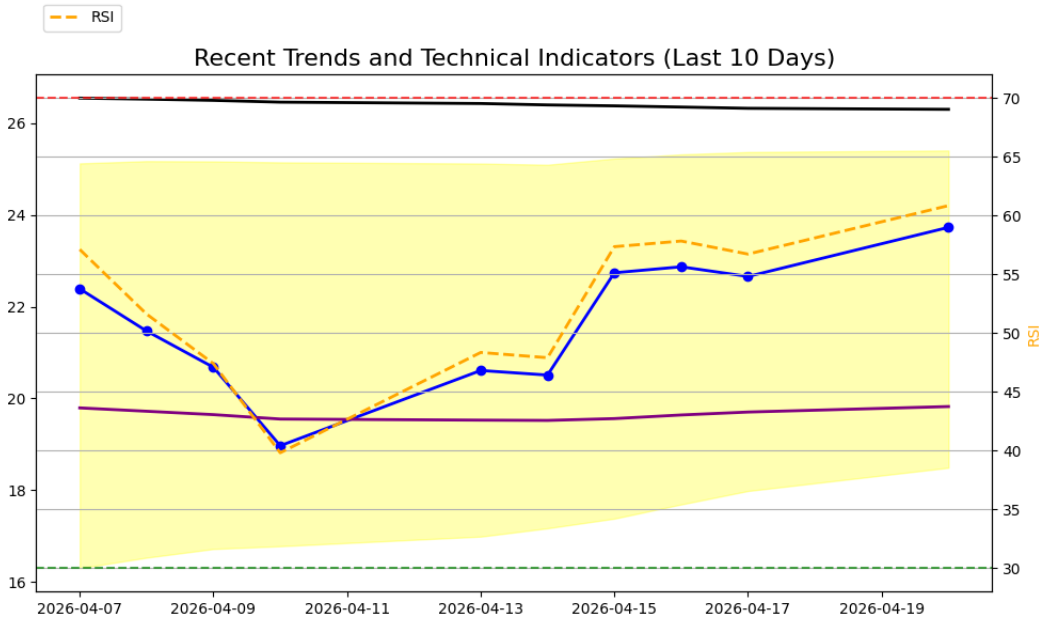
Average True Range (ATR)



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:

BRZE exhibits a moderate level of fractal volatility (FVI 0.342), suggesting a certain degree of price unpredictability. The stock's Lyapunov value (0.014) is low, indicating relative stability compared to the market. The Hurst exponent (0.502) slightly above 0.5 suggests a modest trend-following behavior. However, the negative BPS score and a significant drop in volume (-57.80%) might indicate a lack of investor confidence and no strong breakout signal.

2. Market Sentiment:

The market sentiment appears to be cautious given the moderate FVI and negative BPS. The retail-driven behavior indicated by 2570748000 might be a result of speculative trading or short-term profit-taking.

3. Geopolitical Risk Assessment:

The elevated market-wide FVI indicators, particularly the Gold FVI (0.594), suggest a high level of geopolitical tension and potential trade disruptions. The low GHG impact (0.048) for the technology sector indicates a relatively low sectoral emissions risk exposure.

4. Sector and Supply Chain Exposure:

As a technology stock, BRZE might have exposure to Asia-sourced components like semiconductors and rare earths. The company could face potential risks due to trade instability, supply chain disruptions, and inflationary pressures.

--- STRATEGY RECOMMENDATION ---

Given the current market conditions and the stock's characteristics, a defensive strategy is recommended. The stock appears to be in a consolidation phase with no strong breakout signals. The moderate FVI and low volume suggest a potential risk of fakeout.

--- FINAL TAKEAWAY ---

"BRZE is showing signs of stability amidst market-wide volatility, but the lack of volume and negative BPS score indicate caution. Given the potential geopolitical and supply chain risks, investors should position defensively."

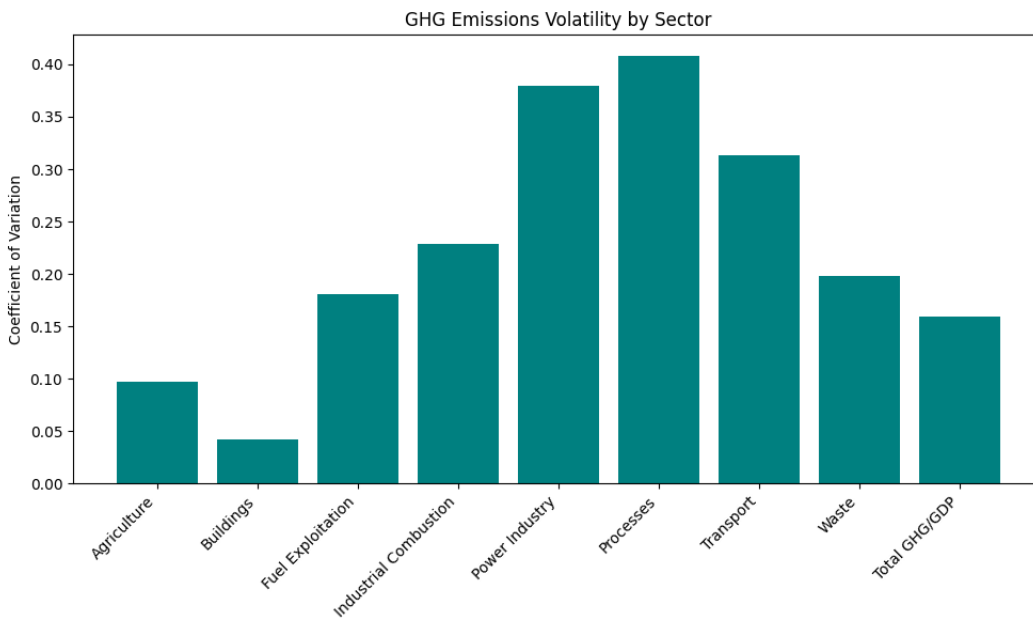
Market Capitalization: 2570748000, Industry: SOFTWARE - APPLICATION, Latest Volume: 2024336, Description: Braze Inc, Sector: TECHNOLOGY, Price to Book: 4.121, Forward PE: 35.09, Enterprise to Ebitda: -18.23, Enterprise to Revenue: 3.037, Profit Margins: -0.178

The trading volume has changed by -57.80% 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: 0.89

Beta of 0.89 suggests low volatility compared to the market.

Volatility Indicators of GHG Emissions by Industry and GDP



Low GHG impact (0.048) for the Technology 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": 0.515,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": 0.654,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "Tariffs are up, rates are down, and gravity no longer applies."  
}
```

The NRD (Narrative Reality Disconnect Index) is set at 0.7, indicating a significant disconnect between the economic narratives and underlying fiscal, monetary, and geopolitical realities. This is primarily due to the following reasons:

1. The rising U.S. debt and deficit levels are not sustainable in the long run and pose a significant risk to the economy. Yet, the narrative seems to brush this off as a temporary side effect of the pandemic.
2. Changes in U.S. Treasury bond yields and issuance, coupled with reports of declining foreign demand for U.S. bonds, suggest a weakening confidence in the U.S. fiscal policy. This is contrary to the narrative of a strong and resilient U.S. economy.
3. The extensive use of central bank interventions, such as rate cuts and quantitative easing, are distorting market signals and creating an artificial sense of stability. This could lead to misallocation of resources and potential financial bubbles.
4. The use of tariffs and sanctions as economic tools can lead to trade wars and economic uncertainty. This is at odds with the narrative of promoting free trade and economic cooperation.
5. The inflation versus official interest rate policy shows a disconnect as well. Despite rising inflation, the interest rates remain low, risking an overheated economy.
6. The influence of BRICS+ and their de-dollarization trends could undermine the U.S. dollar's dominance in global trade and finance, a narrative often overlooked.
7. Gold volatility and geopolitical hedging indicate a sense of uncertainty and risk aversion in the market, contrary to the narrative of a robust and growing economy.

The Trumpery Alert is set to true due to the manipulative and performative policymaking evident in the use of tariffs and sanctions as economic tools, as well as the extensive use of central bank interventions. The satirical summary, "If you believe this is market forces, we've got a bridge to sell you", reflects the skepticism towards the official narrative.

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** _____