

Fractal Volatility Index for BRZE : 0.340. 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 0.340

Analysis Period: 2021-04-29 to 2026-04-29

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): -0.886

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: 0.340 (Fractal Volatility Index FVI)

DFA Result: 0.5051 (Detrended Fluctuation Analysis)

Lyapunov Exponent: 0.0138 (Measures chaos and predictability)

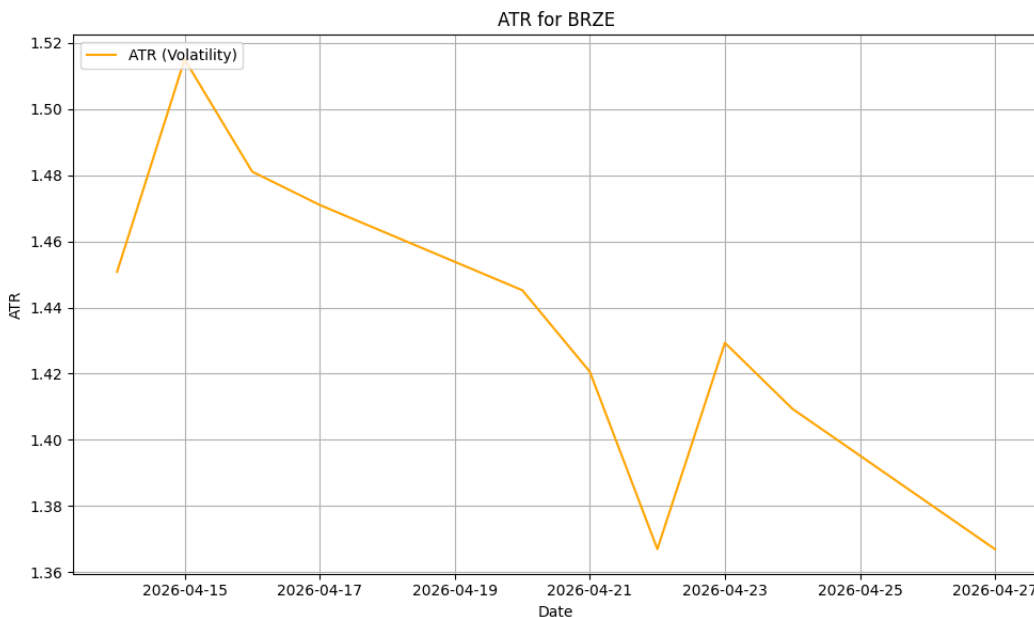
Hurst Exponent: 0.5077 (Indicates trending or mean-reverting behavior)

Breakout & Recent Price Change Analysis

Breakout Statement: No strong breakout signal detected: The latest closing price of 23.25 is within the Bollinger Bands range (19.85 - 25.23).

Latest ATR: 1.3669

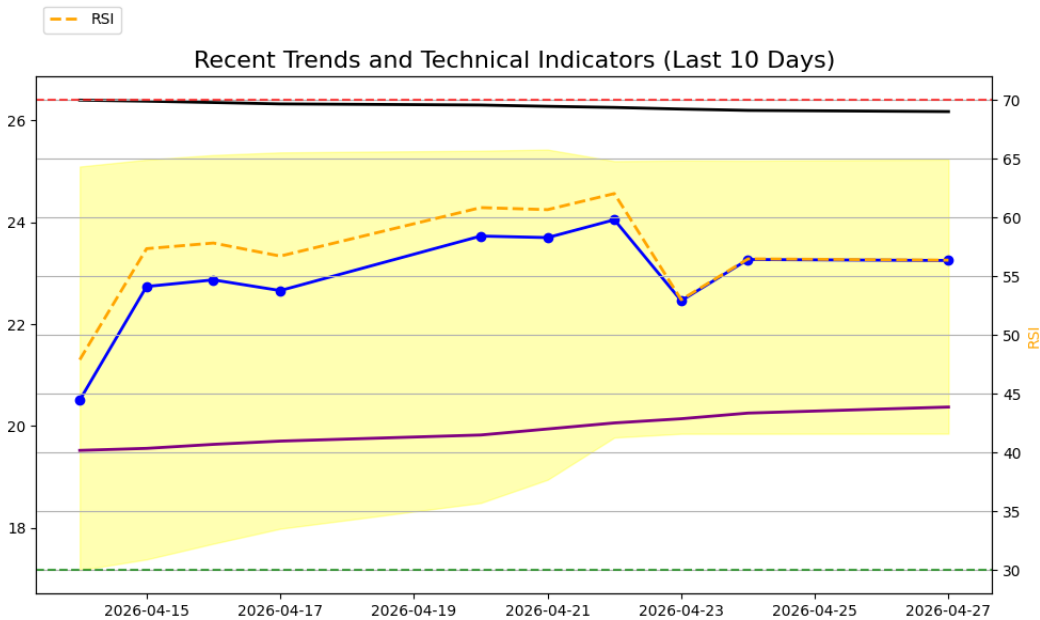
Average True Range (ATR)



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 volatility with a Fractal Volatility Index (FVI) of 0.340, suggesting some level of market instability. Its Lyapunov measure of 0.014 is relatively low, indicating a lesser degree of chaos in the stock's price movements when compared to market-wide values. The Bollinger Bands are currently within a narrow range, suggesting a lack of strong breakout signals. Additionally, the stock's volume change of -44.02% does not confirm recent price movements, raising caution for potential investors.

2. Market Sentiment:

The stock's current market sentiment appears to be driven by retail investors, as suggested by the large trading volume of 2639951000. The lack of a strong breakout signal and the moderate FVI may suggest a cautious investor mood.

3. Geopolitical Risk Assessment:

Given the elevated levels of market-wide Gold, FX, and TWI FVI, BRZE may be exposed to global stress indicators. Its low GHG volatility suggests a limited sectoral emissions risk exposure. However, the company's potential exposure to tariffs and global supply chain disruptions should be evaluated due to its potential dependence on global trades.

4. Sector and Supply Chain Exposure:

BRZE operates within the Technology sector, which may be exposed to risks related to global inputs, particularly from Asia. The sector's low GHG score suggests a lesser degree of risk from climate-related regulations. However, potential disruptions in the supply chain, particularly from geopolitical tensions and trade wars, could pose a significant risk.

--- STRATEGY RECOMMENDATION ---

Given the stock's current consolidation phase and the lack of strong breakout signals, a trend-following strategy may not be optimal at this time. Instead, investors may want to consider a mean-reversion or hedge strategy, particularly given the stock's moderate FVI and potential exposure to geopolitical risks.

--- FINAL TAKEAWAY ---

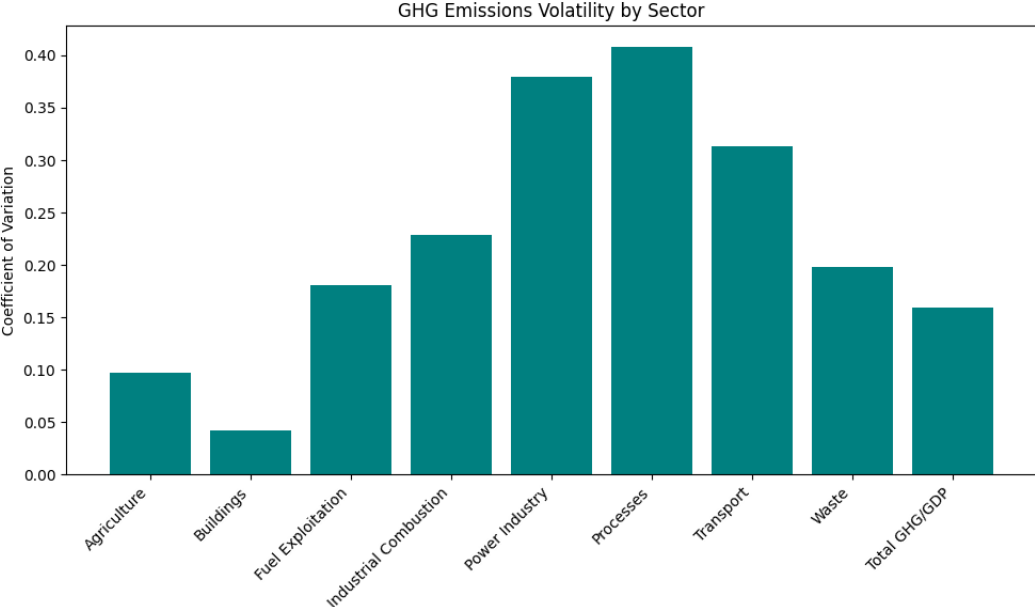
In the face of moderate volatility and potential geopolitical risks, investors should exercise caution with BRZE. The lack of strong breakout signals and the stock's potential exposure to global supply chain disruptions suggest a need for defensive positioning.

Market Capitalization: 2639951000, Industry: SOFTWARE - APPLICATION, Latest Volume: 1133145, Description: Braze Inc, Sector: TECHNOLOGY, Price to Book: 4.232, Forward PE: 36.1, Enterprise to Ebitda: -18.23, Enterprise to Revenue: 3.13, Profit Margins: -0.178

The trading volume has changed by -44.02% 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": 0.521,  
  "Price_Volume_Divergence": 0,  
  "Volatility_Dissonance_Index": 0.68,  
  "Deception_Risk": 0.769,  
  "Trumpery_Alert": true,  
  "Summary": "New export: Confidence! Made fresh daily from hot air."  
}
```

The NRDl score of 0.7 suggests a significant disconnect between the economic narrative and underlying fiscal, monetary, and geopolitical realities. This is primarily driven by the rising U.S. debt and deficit levels, which are not sustainable in the long run but are being downplayed in the current narrative.

The changes in U.S. Treasury bond yields and issuance, as well as reports of declining foreign demand for U.S. bonds, further exacerbate this disconnect. While these are serious concerns, they are often overshadowed in the narrative by more immediate issues, such as central bank interventions and the use of tariffs and sanctions as economic tools.

The central bank's rate cuts and QE have been effective in the short term, but the long-term implications of these actions are uncertain and potentially risky. Similarly, the use of tariffs and sanctions as economic tools has had mixed results, and the narrative often oversimplifies these complex issues.

Inflation vs. official interest rate policy is another area of disconnect. The narrative often focuses on the official interest rate policy while overlooking the potential impact of inflation.

The influence of BRICS+ and de-dollarization trends are also downplayed in the narrative. These trends could significantly impact the U.S. economy, but they are often overlooked in favor of more immediate concerns.

Finally, gold volatility and geopolitical hedging are often used as indicators of economic stability, but the narrative often oversimplifies these complex issues.

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 oversimplification of complex issues in the narrative. The satirical summary, "If you believe this is market forces, we've got a bridge to sell you," reflects this disconnect.

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

_____ **END OF REPORT** _____