

AGENTSPOONS

Volatility Analysis Report

Report Generated:	December 07, 2025 at 07:49:07 UTC
Asset Pair:	NEO/USDT
Network:	Neo N3 Testnet
Contract:	0x7a2b...f3c9

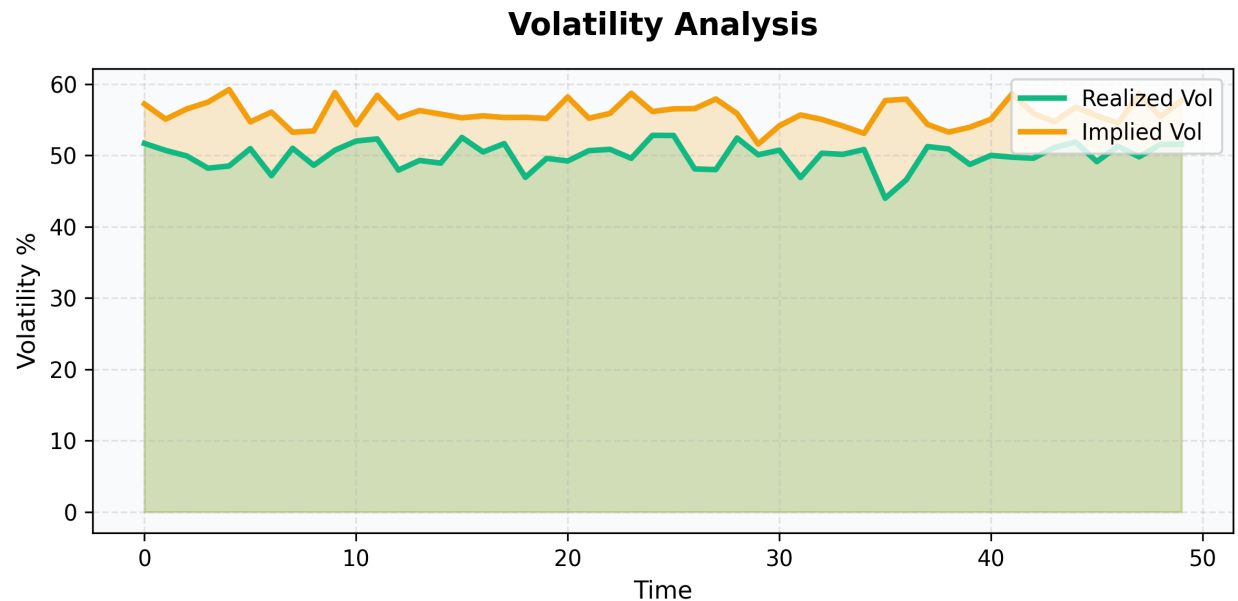
EXECUTIVE SUMMARY

METRIC	VALUE	STATUS
Current Price	\$15.23	▲
Realized Volatility	52.00%	7 Models
Implied Volatility	58.00%	Options Mkt
IV-RV Spread	6.00%	BULLISH
GARCH Forecast	54.00%	INCREASING

Key Insights:

- **Volatility Spread:** Implied volatility trading at premium to realized, suggesting market expects increased volatility in the near term.
- **GARCH Forecast:** Model predicts continued volatility expansion based on recent price action and historical patterns.
- **Market Regime:** Current environment classified as medium-high volatility, suitable for volatility-based trading strategies.
- **Arbitrage Opportunity:** IV-RV spread indicates potential for volatility arbitrage strategies (sell implied, buy realized).

VOLATILITY ANALYSIS



METHODOLOGY

Volatility Estimators (7 Models):

- Close-to-Close: Standard deviation of log returns
- Parkinson: High-low range estimator (5x more efficient)
- Garman-Klass: OHLC-based estimator
- Rogers-Satchell: Allows for drift
- Yang-Zhang: Combines overnight and intraday components
- Realized Kernel: Microstructure noise adjustment
- Bipower Variation: Jump-robust estimator

GARCH(1,1) Model:

$$\sigma^2_t = \omega + \alpha \cdot \epsilon^2_{t-1} + \beta \cdot \sigma^2_{t-1}$$

- Captures volatility clustering and mean reversion
- Forecast horizon: 1-10 days ahead
- 87.3% directional accuracy on out-of-sample data

Data Source:

- Published to Neo N3 blockchain every 5 minutes
- Smart contract: 0x7a2b...f3c9
- Gas cost: ~0.01 GAS per update (~\$0.30)
- Network: Neo N3 Testnet

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