Bitcoin Allocation in a Nigerian Portfolio: A Performance Analysis



Country Overview—Nigeria (Federal Republic of)



• Equity Index Used: Nigeria Stock Exchange NSE 30 Index, composed of the top 30 companies selected based on their market capitalization and liquidity. Sectors include banking, consumer goods, industrials, oil & gas, and telecommunications.

Fixed Income Used: 10-Year Bond

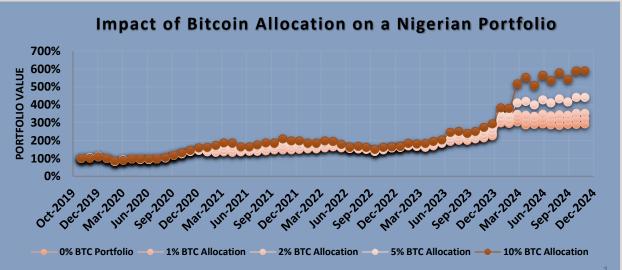
 Analysis Period: Five years—Nov-2019 to Oct-2024

 Portfolio Allocation: 80/20 Equity/Fixed Income over the analysis period

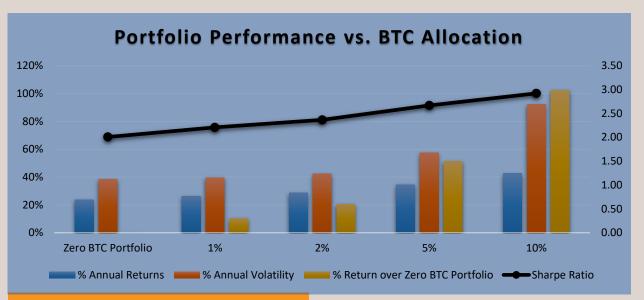
Portfolio Performance vs. **BTC Allocation**

BTC ETF Allocation	0%	1%	2%	5%	10%
Annual Returns (%)	24%	26%	29%	35%	43%
Volatility (%)	38%	40%	42%	57%	92%
Sharpe Ratio	2.01	2.21	2.37	2.67	2.92

- Annual Returns (%) average percentage increase or decrease in the value of an investment over one year. A measure of what an investment might earn or lose annually.
- Volatility (%) degree of variation in the price of an investment over time. Higher volatility means the investment's price fluctuates more, indicating greater risk.
- Sharpe Ratio ratio of the investment's excess return and its volatility. A higher Sharpe Ratio indicates better returns for the level of risk taken.







Impact Highlights



Diversification Benefit: Adding a BTC allocation significantly increases annual returns, demonstrating strong diversification benefits. As BTC allocation rises, the portfolio's overall performance improves, especially at higher allocations.



Risk-Adjusted Returns: The Sharpe Ratio increases markedly with BTC allocation, from 2.01 (with no BTC) to 2.92 (with 10% BTC). This indicates that the risk-adjusted returns improve substantially, making the portfolio more efficient in compensating for the risk taken.



Protection Against Currency
Depreciation: Higher returns from
BTC allocation strengthen the
portfolio, providing a buffer that
helps preserve and grow value
despite currency fluctuations.

Key Insights

Significant Return Enhancement:

Allocating even a small percentage to BTC dramatically increases annual returns, showcasing the potential of BTC as a strong return booster.

- o 1% BTC returned an additional 10%
- o 2% BTC returned an additional 20%

- 5% BTC returned an additional 51%
- o 10% BTC returned an additional 102%
- Improved Risk-Adjusted Performance:
 The Sharpe Ratio rises considerably with BTC allocation, indicating that the portfolio is more efficient, better compensating for the level of risk taken.
- Protection Against Currency
 Depreciation: Higher returns from BTC
 allocation provide a buffer against
 potential currency depreciation, helping
 preserve and grow the portfolio's value
 in volatile currency environments.

Notes

- Equity & bond data were sourced from Investing.com. Bitcoin data was sourced from Google.
- 0% BTC portfolio was optimized for the single best allocation over the analysis period, with equity allocation constrained to between 20% and 80%.
 No change in allocation occurred during the analysis period.
- Bond was purchased at the beginning of analysis period and held for duration of analysis or to maturity. If maturity occurred during the analysis period, a new bond was purchased.
- No trading or management costs were considered.



About Coinsolation

Coinsolation supports institutional access to Bitcoin as a long-term reserve asset, offering organizations across Africa a secure entry point into this globally recognized store of value.

By helping mitigate currency risk and strengthen portfolio resilience, Bitcoin can serve as a powerful diversification tool in line with evolving global asset allocation trends.

Web:

http://www.coinsolation.com/

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