Bitcoin Allocation in a Moroccan Portfolio: A Performance Analysis



Country Overview—Morocco (Kingdom of)

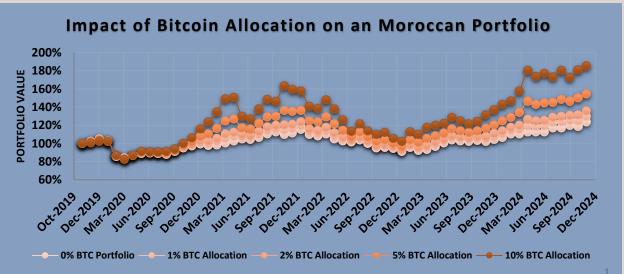


- Equity Index Used: Moroccan All Shares Index (MASI), tracks the performance of all companies listed on the Casablanca Stock Exchange. It includes sectors such as banking, telecommunications, consumer goods, and industrials.
- Fixed Income Used: 10-Year Bond
- Analysis Period: Five years—Nov-2019 to Oct-2024
- Portfolio Allocation: 80/20 Equity/Fixed
 Income over the analysis period

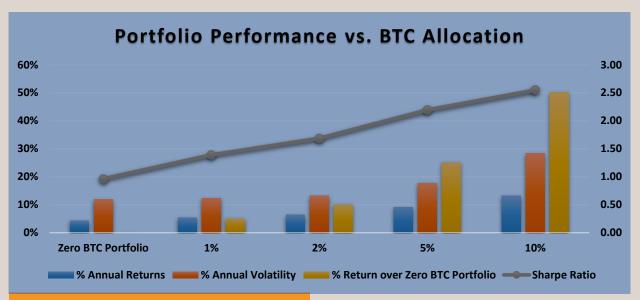
Portfolio Performance vs. BTC Allocation

BTC ETF Allocation	0%	1%	2%	5%	10%
Annual Returns (%)	4%	5%	6%	9%	13%
Volatility (%)	12%	12%	13%	18%	28%
Sharpe Ratio	0.96	1.39	1.69	2.20	2.55

- 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 0.96 (with no BTC) to 2.55 (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 5%
- o 2% BTC returned an additional 10%

- 5% BTC returned an additional 25%
- o 10% BTC returned an additional 50%
- 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.

Is Bitcoin Halal?

- The question of whether Bitcoin is permissible under Islamic law has been addressed by several Islamic scholars and institutions.
- Many consider Bitcoin Halal when used transparently and for lawful purposes, as it fulfills key Shariah criteria: being a medium of exchange, having intrinsic value, and avoiding riba (usury) or excessive gharar (uncertainty).
- Bitcoin's growing adoption in Islamic finance highlights its compatibility with Shariah principles.



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/

X (Twitter):

https://x.com/coinsolation



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.

