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## **EQDerivatives**

## **Diversification Benefits Of Bitcoin**

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# Diversification Benefits Of Bitcoin

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#### **Overview**

- Quick Intro
- Exposure to Bitcoin
- Methodology
- Results
- Contact / Q&A

### **Market Exposure**

- Stocks: S&P 500 Total Return
- Bonds: Bloomberg Barclays US Aggregate Bond Index
- Spot Bitcoin: 2011 3Q2021
- CME Futures: 2018 3Q2021
- Grayscale Bitcoin Trust: 2017 3Q2021

## Methodology

- Combine bitcoin exposure with traditional equity / fixed income portfolio
- Explore various traditional asset weightings in 5% increments
- Bitcoin exposure rebalanced to 1%
- Frequent rebalancing to avoid bitcoin overtaking the portfolio allocation

## Methodology

**Example:** 

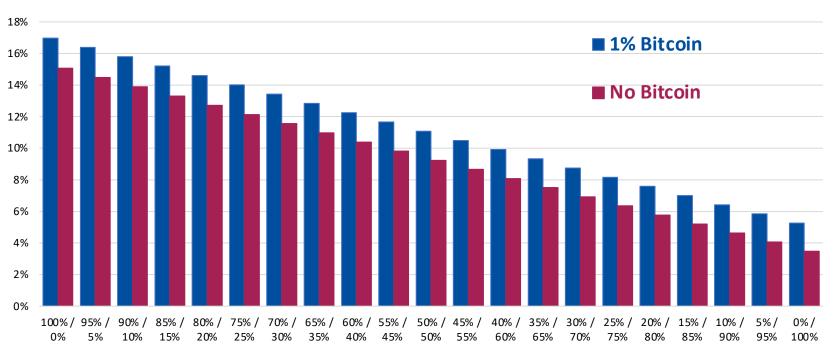
**75% Stocks / 25% Bonds** 

VS.

74.25% Stocks / 24.75% Bonds / 1.00% BTC

### Spot Bitcoin Returns 2011 – 3Q2021

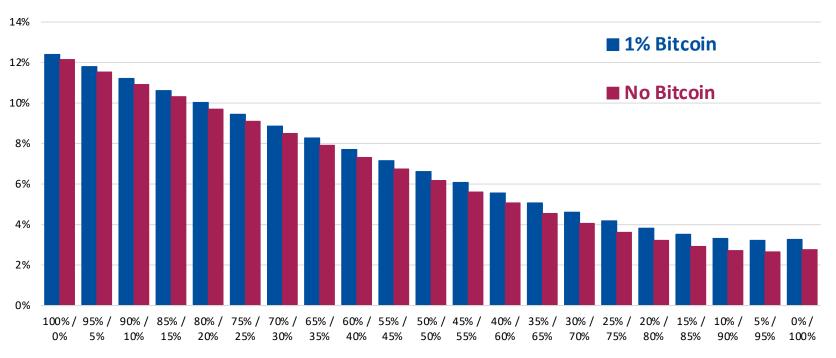
#### Average Annual Return Stock / Bond With And Without BTC Exposure



Data Sources: Bloomberg & EQD Calculations

## Spot Bitcoin Volatility 2011 – 3Q2021

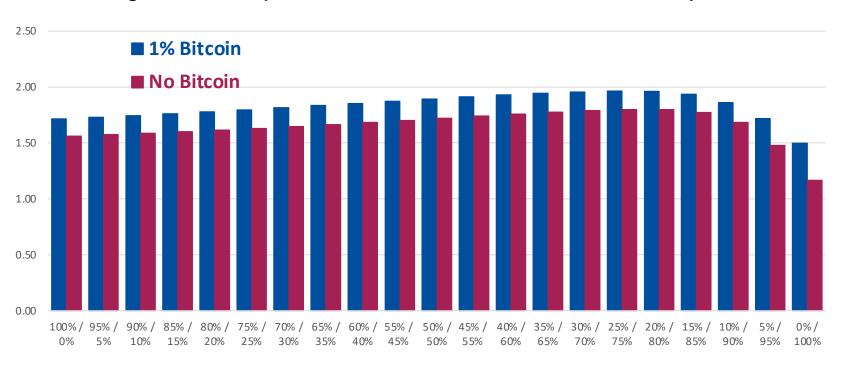
#### Average Annual Volatility Stock / Bond With And Without BTC Exposure



Data Sources: Bloomberg & EQD Calculations

## Spot Bitcoin Sharpe Ratio 2011 – 3Q2021

#### Average Annual Sharpe Ratio Stock / Bond With And Without BTC Exposure



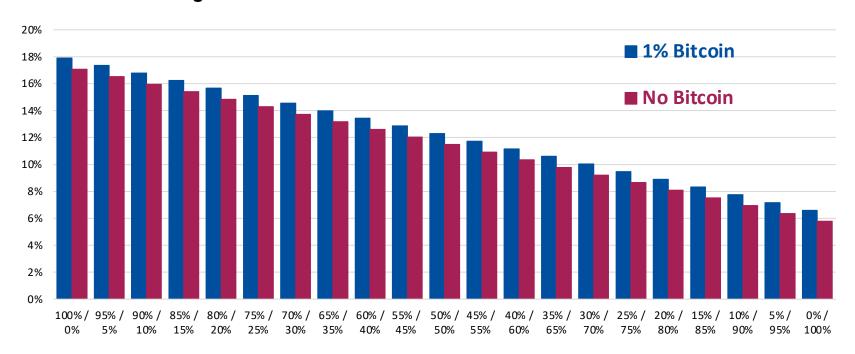
Data Sources: Bloomberg & EQD Calculations

## **Spot Bitcoin Highlights**

- 2014 and 2018 were the two years where the nonbitcoin portfolios put up lower Sharpe ratios
- A majority of the better annual risk adjusted bitcoin exposure returns lean toward a higher bond than stock weighting

#### CME BTC Futures Returns 2018 – 3Q2021

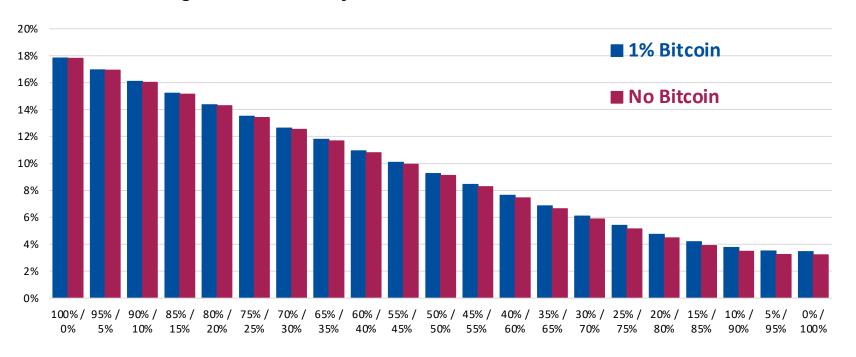
#### **Average Annual Return Stock / Bond With And Without Futures**



Data Sources: Bloomberg & EQD Calculations

## CME BTC Futures Volatility 2018 – 3Q2021

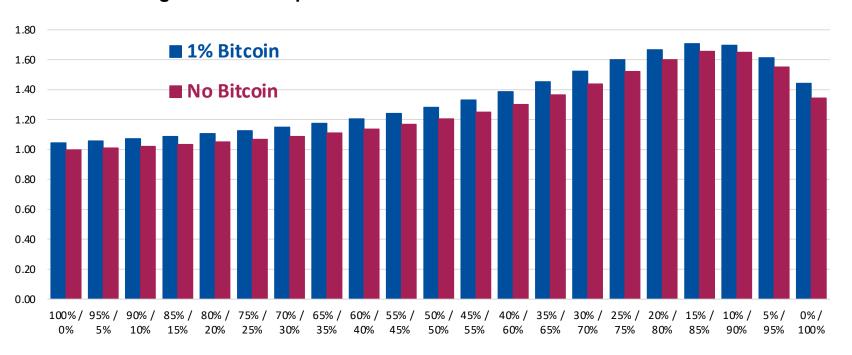
#### **Average Annual Volatility Stock / Bond With And Without Futures**



Data Sources: Bloomberg & EQD Calculations

### CME Futures Sharpe Ratio 2018 – 3Q2021

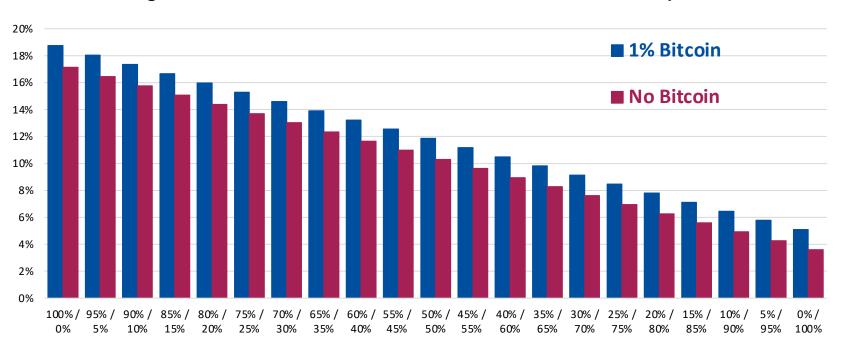
#### Average Annual Sharpe Ratio Stock / Bond With And Without Futures



Data Sources: Bloomberg & EQD Calculations

### **Grayscale BTC Trust Returns 2017 – 3Q2021**

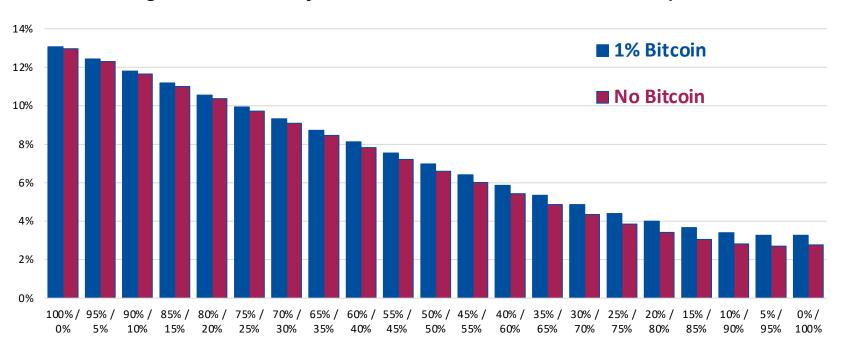
#### Average Annual Return Stock / Bond With And Without GBTC Exposure



Data Sources: Bloomberg & EQD Calculations

## **Grayscale BTC Trust Volatility 2017 – 3Q2021**

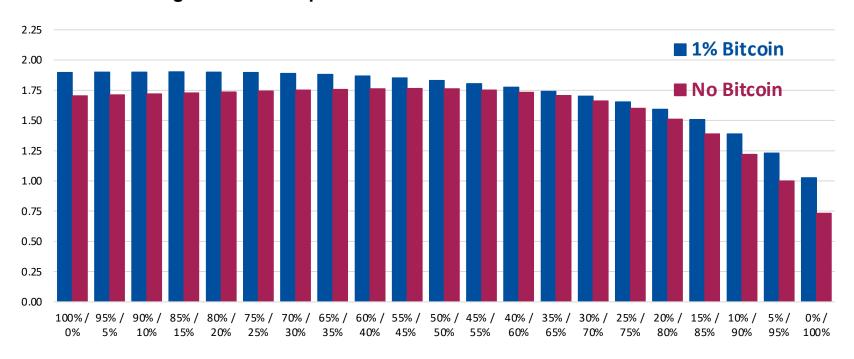
#### Average Annual Volatility Stock / Bond With And Without BTC Exposure



Data Sources: Bloomberg & EQD Calculations

## **Grayscale BTC Trust Sharpe Ratio 2017 – 3Q2021**

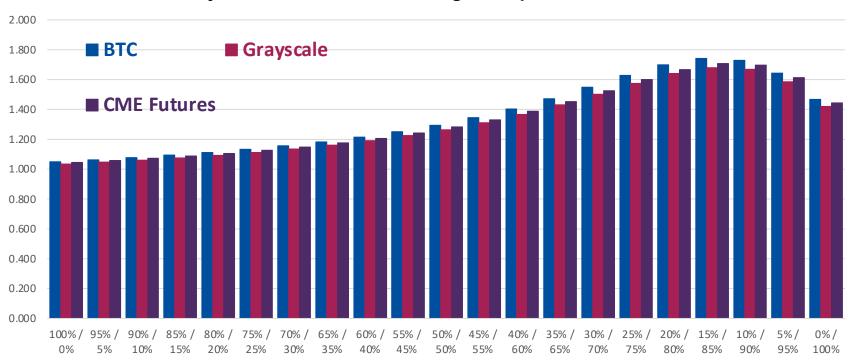
#### Average Annual Sharpe Ratio Stock / Bond With And Without GBTC



Data Sources: Bloomberg & EQD Calculations

## 3 Methods Sharpe Ratios 2018 – 3Q2021

#### BTC / Grayscale / CME Futures Average Sharpe Ratios 2018 - 3Q2021



Data Sources: Bloomberg & EQD Calculations

### **Summary**

- Historical absolute and risk adjusted performance likely benefits from a small amount of bitcoin exposure
- This extends to all three methods presented today
- A comparison over the same time period shows little difference in the method used to get bitcoin exposure

## **Questions / Contact**

**Questions?** 

**Contact Info** 

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