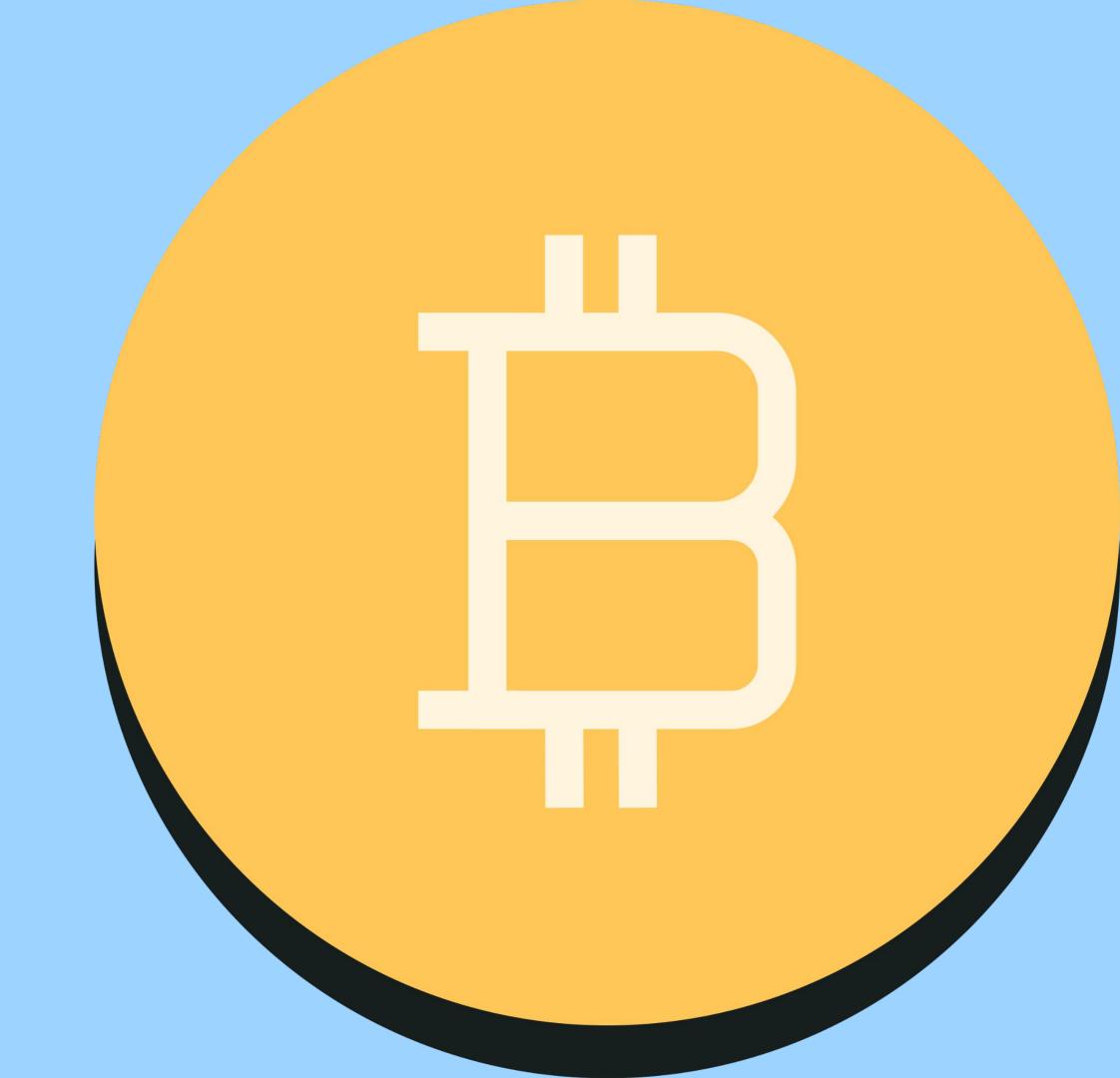


HASHDEX RESEARCH

Bitcoin

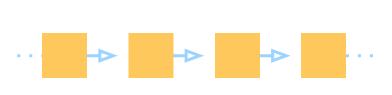
The rise of exponential gold





Bitcoin permanently changed how value can be transferred.

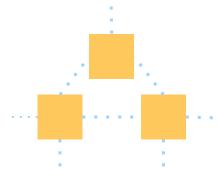
It is the first blockchain-based network, allowing value transfer without intermediaries. Launched in 2009, it makes use of decades of efforts to create a digital currency, and remains the most valuable digital asset network. Bitcoin's foundation includes three pillars:



1

Transparent

Bitcoin's blockchain is a publicly available digital ledger — stored in tens of thousands of computers (nodes) — that maintains all confirmed transactions.



2

Decentralized

Bitcoin users around the world run nodes to transfer value over the internet, as well as validate and update information on the Bitcoin blockchain.



3

Immutable

Bitcoin's network requires a computational cost for users seeking to update its ledger, making it cost prohibitive to alter blockchain transactions.





The Bitcoin network's native asset is bitcoin¹ (BTC), providing:





A payment method and medium of exchange

- The Bitcoin network created a peer-to-peer value transfer system.
- Bitcoin user balances are denominated in bitcoin (BTC).
- Individual users
 exchange value using
 unspent balances to
 transfer BTC ownership
 from one user to
 another.



Incentives for security

- Bitcoin miners expend computational power to include transactions in new blocks of the blockchain.
- BTC is the reward paid to miners for their efforts.
- Successful miners
 receive newly issued
 BTC according to a
 predefined and
 immutable schedule.



Store of value attributes

- BTC's supply curve makes it a potential store of value.
- There is a cap for the total number of BTC and a disinflationary issuance curve that progressively reduces the number of newly issued BTC over time.
- BTC's supply is inelastic to demand, preserved by the protocol's difficulty adjustment.





The supply of BTC is driven by three unique factors.

1. Scarcity

Supply is capped at 21 million BTC.

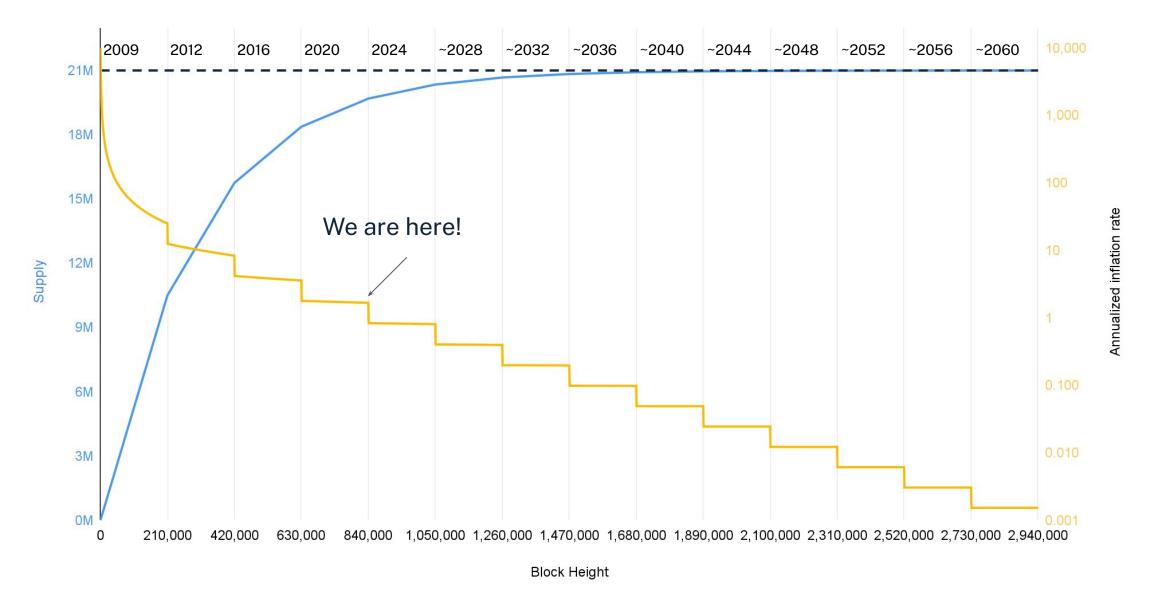
2. Disinflation

The rate of expansion of supply diminishes over time. This supply schedule includes "halvings," which occur every four years and cut in half the number of newly issued BTC.

3. Rigid monetary policy

BTC's issuance schedule is set in stone and has never changed since inception.

Bitcoin's supply and annualized inflation rate¹







Demand for BTC is driven by two main use cases.



1

Digital store of value (SoV)

BTC has a monetary policy independent of any central authority, making its holders immune to monetary debasement. It is also more portable, more easily divisible, and easier to transact than gold, allowing users to store BTC without counterparty risk or huge costs.



2

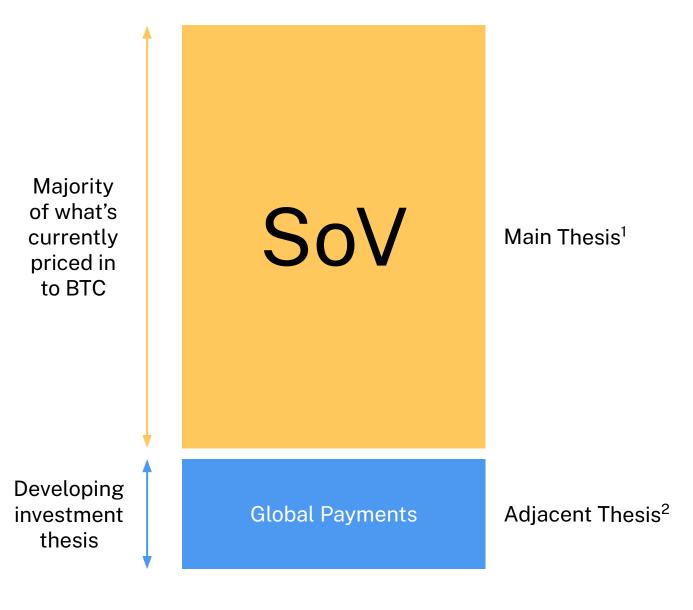
Global payments

BTC can be transferred globally 24/7 without traditional gatekeepers. This reduces transaction costs, provides an alternative for millions of unbanked people worldwide, and streamlines remittances through a secure system accessible by anyone.

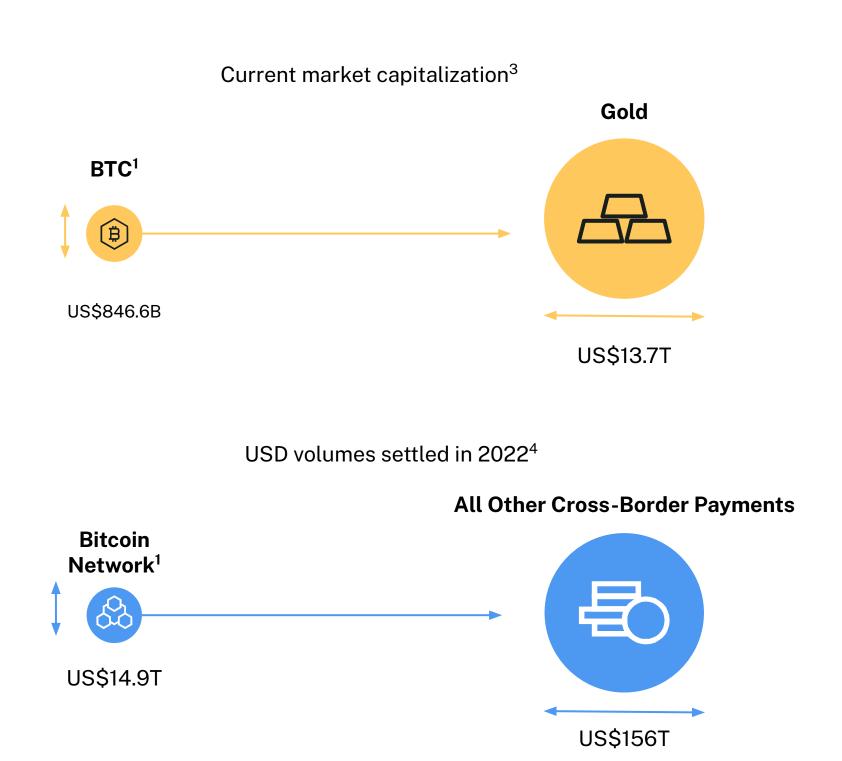




BTC adoption has tremendous growth potential.



Currently, we believe most of BTC's value comes from investors perceiving it as an emerging digital store of value.



¹ Infocharts not necessarily to scale.

² Optionalities not priced into the SoV thesis and under potential development.

³ Data from Companies Market Cap and Coin Market Cap, accessed in January 16, 2024.

⁴ Data from Ernst & Young and River Payments, accessed in January 16, 2024.



BTC improves on several attributes of fiat currencies and gold.

Bitcoin's properties make it fundamentally different from a fiat currency, which has an unlimited supply and generally increases over time. And BTC is more scarce, portable, and divisible than gold.

| | Fungibility | Non- consumability | Portability | Durability | Divisibility | Security | Easy to transact | Scarcity | History | Censorship- resistant | Sovereignty | Programmable | Decentralized | Volatility |
|---------|-------------|-----------------------|-------------|------------|--------------|----------|------------------|----------|---------|--------------------------|-------------|--------------|---------------|------------|
| BITCOIN | High | High | High | High | High | High | High | High | Low | High | Low | High | High | High |
| GOLD | High | High | Low | High | Moderate | Moderate | Low | Moderate | High | Moderate | Low | Low | Low | Low |
| FIAT | High | High | High | Moderate | Moderate | Moderate | Moderate | Low | Low | Low | High | Low | Low | Moderate |

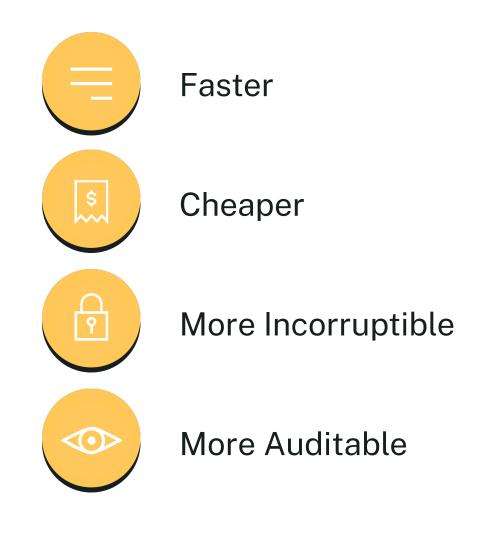
7



Bitcoin has more efficient infrastructure for global payments.

BTC can be a gateway for investors to become users of the Bitcoin network, which has the essential features to gain market share in global payments. This adjacent thesis — Bitcoin as a global payments network — highlights its potential as a digital store of value.

| Fintech (e.g., Wise, Revolut) Days Medium Unavailable in many countries Money transfer operator (e.g., | | Native speed | Native cost | Accessibility |
|---|-------------------------------|--------------|-------------|-----------------------------|
| Fintech (e.g., Wise, Revolut) Days Medium Unavailable in many countries Money transfer operator (e.g., Remitly, Western Union) Hours/Days High Global, business hours only | | Seconds | Low | · |
| Money transfer operator (e.g., Remitly, Western Union) Days Medium countries Hours/Days High Global, business hours only | Correspondent banking | Days | High | Global, besides sanctions |
| Remitly, Western Union) Hours/Days High Global, business hours only | Fintech (e.g., Wise, Revolut) | Days | Medium | • |
| Card (Credit/Debit) Seconds Medium Global 24/7 | | Hours/Days | High | Global, business hours only |
| | Card (Credit/Debit) | Seconds | Medium | Global 24/7 |







Both of BTC's investment theses are gaining momentum.

% of supply held for the long term

70%

70% of the BTC supply has currently been held for over a year, illustrating investor interest in the asset as a long-term holding.

Number of wallets holding bitcoin



52 million

More than 50 million digital wallets worldwide hold some BTC balance.

Daily active users



783,000

The Bitcoin network surpassed 750,000 daily active users at the end of 2023.

Computational power



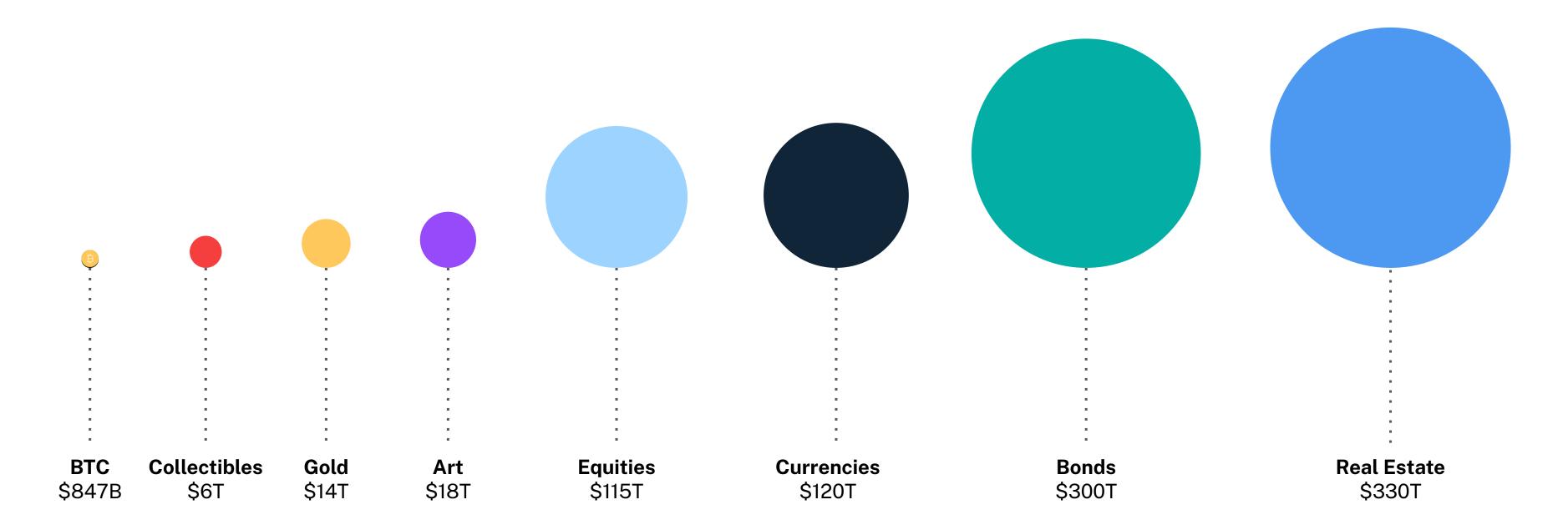
600 EH/s

Bitcoin's computational power is equivalent to 60 trillion high-end retail computer CPUs trying to mine the next Bitcoin block.





Despite extraordinary growth, BTC's relative market value is tiny.¹





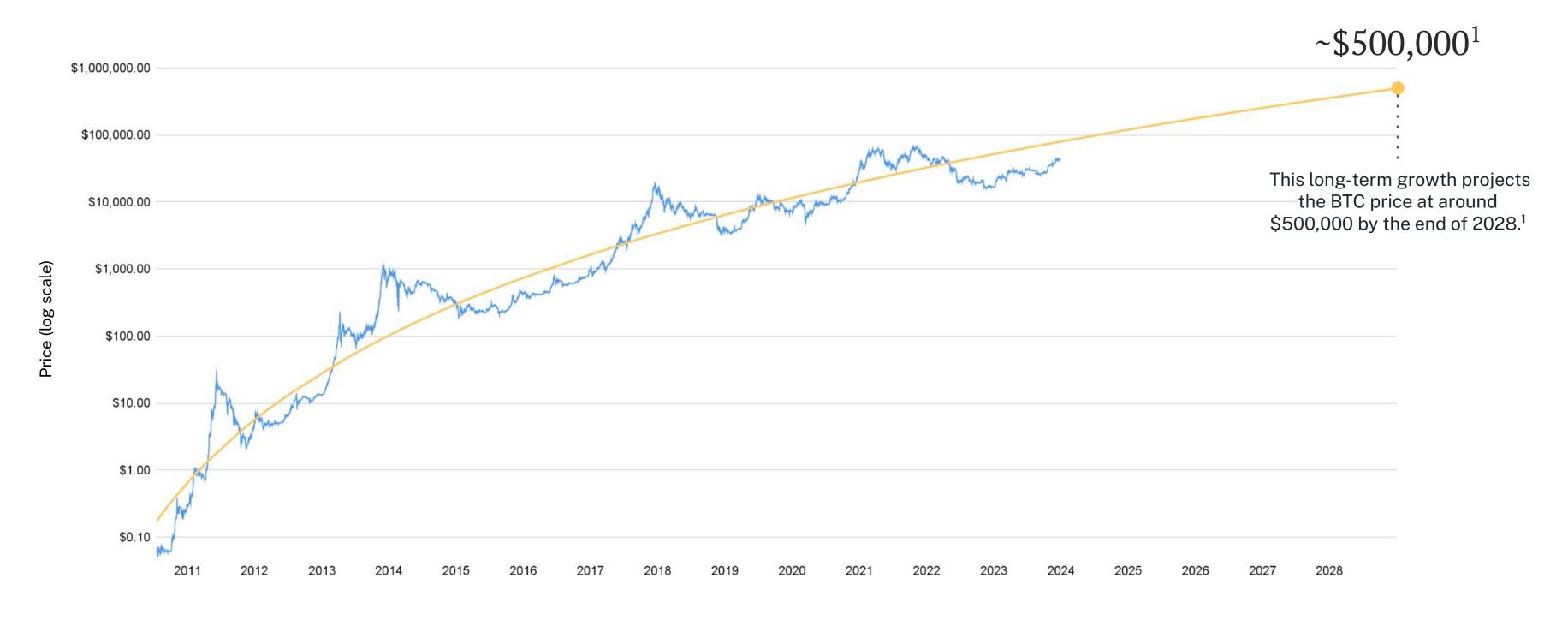
BTC has been the best performing asset in the past 10 years.

| 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| TLT | Bitcoin | Bitcoin | Bitcoin | Russell 2000 | | Bitcoin | Bitcoin | DXY | Bitcoin |
| 23.6% | 34.9% | 125.2% | 1,332.2% | 11.9% | 92.5% | 303.8% | 59.6% | 8.2% | 155.7% |
| Nasdaq 100 | DXY | Russell 2000 | EM | DXY | Nasdaq 100 | Nasdaq 100 | S&P 500 | Gold | Nasdaq 100 |
| 17.9% | 9.3% | 18.4% | 37.3% | 4.0% | 38.0% | 47.6% | 26.9% | -0.4% | 53.8% |
| DXY | Nasdaq 100 | EM | Nasdaq 100 | Nasdaq 100 | S&P 500 | Gold | Nasdaq 100 | AGG | S&P 500 |
| 12.6% | 8.4% | 11.2% | 31.5% | -1.0% | 28.9% | 25.1% | 26.6% | -15.0% | 24.2% |
| S&P 500 | S&P 500 | S&P 500 | S&P 500 | Gold | Russell 2000 | Russell 2000 | Russell 2000 | S&P 500 | Russell 2000 |
| 11.4% | -0.7% | 9.5% | 19.4% | -1.6% | 23.5% | 18.4% | 13.5% | -19.4% | 16.1% |
| Russell 2000 | AGG | Gold | Gold | AGG | EM | EM | DXY | EM | Gold |
| 3.5% | -1.9% | 8.4% | 13.2% | -2.6% | 18.4% | 18.3% | 6.4% | -20.1% | 13.2% |
| AGG | TLT | Nasdaq 100 | Russell 2000 | TLT | Gold | TLT | EM | Russell 2000 | EM |
| 3.5% | -4.2% | 5.9% | 13.2% | -4.2% | 18.3% | 16.4% | -2.5% | -22.2% | 9.8% |
| Gold | Russell 2000 | DXY | TLT | S&P 500 | TLT | S&P 500 | AGG | TLT | AGG |
| -1.8% | -4.9% | 3.6% | 6.5% | -6.2% | 11.5% | 16.3% | -3.5% | -32.8% | 2.3% |
| EM | Gold | AGG | AGG | EM | AGG | AGG | Gold | Nasdaq 100 | TLT |
| -2.2% | -10.4% | 0.1% | 1.2% | -14.6% | 5.5% | 5.2% | -3.6% | -33.0% | -0.7% |
| Bitcoin | EM | TLT | DXY | Bitcoin | DXY | DXY | TLT | Bitcoin | DXY |
| -56.8% | -14.9% | -1.2% | -9.7% | -73.2% | 0.5% | -6.8% | -6.1% | -64.2% | -2.0% |

| 2014-2023 | | | | | | | |
|--------------|--------------|--|--|--|--|--|--|
| Period | Annualized | | | | | | |
| Bitcoin | Bitcoin | | | | | | |
| 5,619.3% | 49.9% | | | | | | |
| Nasdaq 100 | Nasdaq 100 | | | | | | |
| 368.5% | 16.7% | | | | | | |
| S&P 500 | S&P 500 | | | | | | |
| 158.1% | 9.9% | | | | | | |
| Russell 2000 | Russell 2000 | | | | | | |
| 121.1% | 8.3% | | | | | | |
| Gold | Gold | | | | | | |
| 71.2% | 5.5% | | | | | | |
| EM | EM | | | | | | |
| 30.0% | 2.7% | | | | | | |
| DXY | DXY | | | | | | |
| 26.4% | 2.4% | | | | | | |
| TLT | TLT | | | | | | |
| -2.9% | -0.3% | | | | | | |
| AGG | AGG | | | | | | |
| -6.7% | -0.7% | | | | | | |



There is significant upside potential in the coming years.¹









BTC will become increasingly important to diverse portfolios.

1

Constrained supply

The supply of BTC is driven by three unique factors—its scarcity, disinflation characteristics, and a rigid monetary policy.

2

Increasing demand

The strongest current use case for BTC is as a store of value, but its adjacent use as a global payments network will likely increase over time.

7

It's still early

BTC is the best performing asset over 10 years. However, it has a tiny relative market value and its maturation as an asset is creating an exponential growth trajectory.

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