BETTER BITCOIN EXPOSURES:

TOBAM Bitcoin Enhanced and TOBAM Bitcoin Treasury Opportunities

"Exposures not yet offered by reference players."

For informational purposes only.

This presentation is provided for discussion purposes only and does not constitute investment advice, a recommendation, solicitation, offer, advice or invitation to enter in any transaction and should in no case be interpreted as such.

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Important Disclosure



- •TOBAM and various entities of the TOBAM group of companies
- Yves Choueifaty and various employees of TOBAM.
- Various strategies of the TOBAM Range

Are shareholders of some of the funds and companies mentioned in this presentation!



- 1 Intro to TOBAM & BTOBAM
- 2 « Conventional » and Better Ways of getting an exposure to Bitcoin
- 3. Conclusions



THE COMPANY, RESEARCH DRIVEN ASSET MANAGER

Independent and employee-owned

- Created in 2005
- Part of CalPERS' Emerging Manager Program
 (2011 2021)
- 24 financial professionals, 9 nationalities
- Regulated in France and SEC-registered

The Man of the Market

- Paris
- Dublin
- New York

50% of the team involved in portfolio management & research (12 people)

THE FOUNDER

Yves Choueifaty, President & CIO (30 years investment experience), previously:

- CEO of Credit Lyonnais Asset Management (AuM €70bn)
- Graduated in 1992 from ENSAE in Statistics, Actuarial Studies Finance and Artificial Intelligence

SHAREHOLDERS STRUCTURE

TOBAM'S EMPLOYEES 92% AMUNDI 8%

Source: TOBAM. Figures as of Jun 30 2025.



MIGRATING TOBAM FROM A MONO-CORE ...

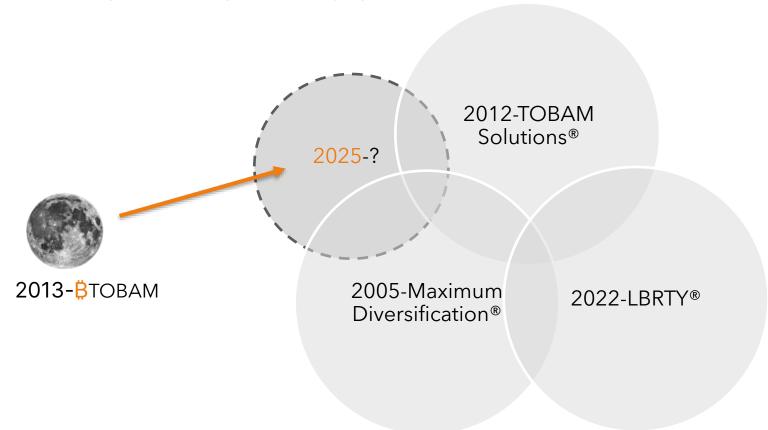






.... To Multi-Core

"Exposures not yet offered by reference players."



AWARDS

2023 - 2024

- "Best Fund Manager for Digital Assets" The Digital Banker, Oct 2024, Singapore
- "Equities Manager of the year" Wealth & AM Awards, May 2024, London
- Multi Asset Portfolio Awards CIO Industry Innovation Awards, Dec 2023, NYC
- "Grand Prix de la Philanthropie" "Justice and Peace" category, Ficade Group, Nov 2023, Paris



DIGITAL **ASSETS**

- Multi Strategy investing Awards CIO Industry Innovation Awards, Dec 2022, NYC
- "Grand Prix de la Finance" US Equity "Best funds to choose in the next 12 months" H24 Finance, July 2022, Paris
- "Sustainability Provider of the Year" Asset Management Awards 2022 MoneyAge, May 2022, London







- "Multi Asset Manager of the Year" European Pensions Awards 2021 October 2021, London
- "Smart Beta Manager of the year" Pension and Investment provider Awards 2021 June 2021, London
- "Multi Asset Manager of the Year" Asset Management Awards 2021 MoneyAge, May 2021, London







Other Awards

- "Most Sustainable Company in the Investment Industry" World Finance Sustainability Awards, 2019
- "Emerging Equity Manager of the Year" UK Pensions Awards 2019, London
- "European Smart Beta Manager of the Year" Funds Europe Awards 2018, London
- "European Asset Management Firm of the Year" Funds Europe Awards 2017, London
- "AM Leader of the Year" Grands Prix de la Gestion d'Actifs 2016, Paris
- "European Asset Manager of the Year" Funds Europe Awards 2016, London
- "Equities Manager of the Year" CIO Industry Innovation Awards 2015 New York
- "CIO of the Year" Funds Europe Awards 2015
- "Profit for Non Profit Special Award, TOBAM Anti-Benchmark Emerging Markets Equity Fund" Profit for Non Profit Awards 2014, Paris
- - "Emerging Equity Manager of the Year" Pension Age Awards 2020, London
 - TOBAM's Deputy CIO elected in the Top 25 Rising Stars of Asset Management Financial News, September 2020





















- European Asset Management Firm of the Year" (assets under €20bn) Funds Europe Awards 2020, London
- TOBAM's Anti-Benchmark® Multi Asset: "Best Flexible Fund" Grands Prix de la Gestion d'Actifs 2020, Paris









TOBAM'S JOURNEY INTO CRYPTO





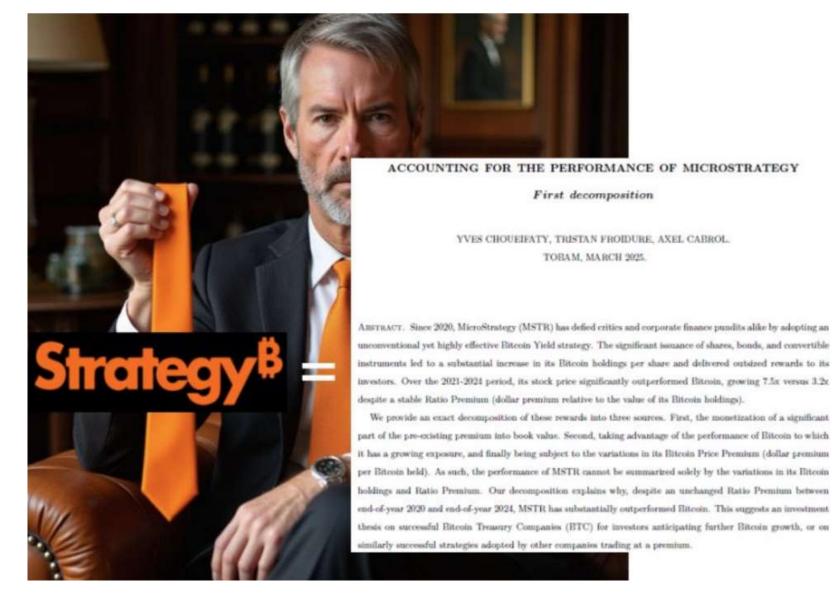
Some research projects:

Market impact Forks Time Diversification Crypto Anti-Benchmarks BTC Yield ...

| Final Content of the Content o

EXAMPLE OF RECENT RESEACH, MARCH 2025: ACCOUNTING FOR THE PERFORMANCE OF (MICRO)STRATEGY







EX. OF RECENT RESEARCH, MARCH 2025: ACCOUNTING FOR THE PERFORMANCE OF (MICRO)STRATEGY

Data

Date	S	В	s [mio]	b [k]	b/s
31Dec20	39	\$28,996	93	70	0.760
31Dec21	54	\$46,334	109	124	1.138
30Dec22	14	\$16,579	113	133	1.171
29Dec23	63	\$41,935	167	189	1.132
31Dec24	200	\$03 714	245	446	1 210



Key Variables computations

Date	π	В,	Δs/s	Δb/b	Bitcoin Yield	$\beta=1/\pi$	$\beta_0 = 1/\pi_0$	β	$\Delta \mathbf{B}_{\star}/\mathbf{B}$
31Dec20	1.76	\$22,099				0.57			
31Dec21	1.03	\$ 1,504	18%	77%	50%	0.97	0.57	0.85	-93%
30Dec22	0.73	\$ (4,487)	4%	7%	3%	1.37	0.97	1.00	-398%
29Dec23	1.33	\$13,876	48%	43%	-3%	0.75	1.37	1.33	-409%
31Dec24	1.70	\$65,537	47%	136%	61%	0.59	0.75	1.21	372%
Full Period			165%	533%	139%		0.57	1.36	197%

(Micro)Strategy outperforms Bitcoin Despite a decreasing premium and an extremely low leverage...

Date	Bitcoin	MSTR	Bitcoin Yield	Bitcoin Performance	Bitcoin Price Premium
31Dec21	60%	40%	50%	51%	-60%
30Dec22	-64%	-74%	3%	-64%	-13%
29Dec23	153%	346%	-3%	203%	147%
31Dec24	123%	359%	61%	149%	149%
Full Period	223%	645%	139%	303%	203%

Bitcoin & MSTR Returns Contributiond to MSTR Performance

• In turn, we obtain a three components breakdown of the return of a shareholder r_s over the period:

$$r_s = y_b + \beta \times r_b + \beta \times \frac{B_{\pi} - B_{\pi,0}}{B_0}, \text{ with } \beta = \beta_0 (1 + y_b)$$

- In words, the return of an investment in shares of MSTR over a given period is the sum of:
 - (1) Its **Bitcoin Yield** over the period
 - The Bitcoin performance r_b , to which it had realized exposure β over the period
 - The change of its **Bitcoin Price Premium** relative to the initial Bitcoin price, with realized exposure β over the period

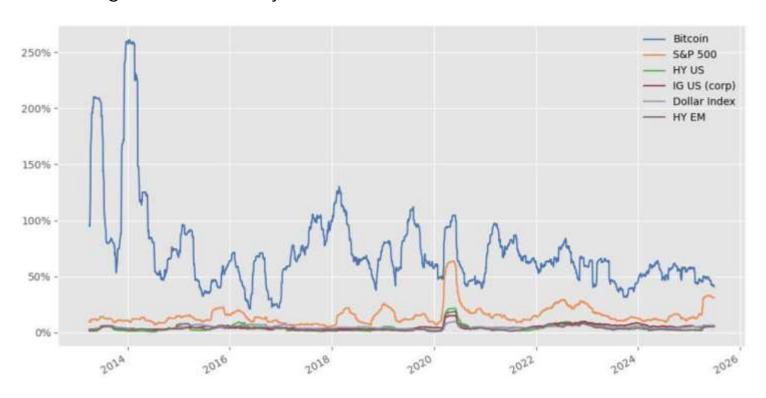


- Intro to TOBAM & BTOBAM
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- 3 Conclusion



WARNING: BAD NEWS, BITCOIN IS A VERY VERY VERY RISKY ASSET

Rolling 3 month volatility



Source: TOBAM, FRED. 3-month volatility calculated on daily returns from, 29/03/2013 to 30/06/2025. Past performance, risk and behaviour are not indicative of future performance, risk and behaviour.



GOOD NEWS: INVESTORS ARE RISK TAKERS

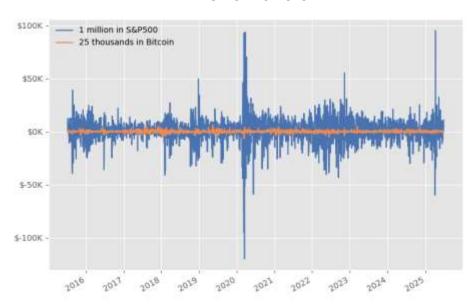
Theorem:

Risk is not relevant to the Investment case. Risk should only determine the Investment size.

US\$ 1 million at 10% volatility is far riskier than US\$ 25 000 at 80% volatility

% volatility is not relevant, what is relevant is the \$ volatility.

"Size matters!"



- The risk of an asset should determine the size of the investment, not whether to invest or not.
- We should not be able to say "it is too risky for me"

Source: TOBAM and FRED. Hypothetical returns from March 31, 2017 to Jun 30, 2025 provided for illustrative purposes. Hypothetical results do not represent the results of actual trading using client assets. Warning: Past performance is not an indicator or a quarantee of future performance.



WHAT IS THE BITCOIN? THE SIMPLEST FINANCIAL ASSET IN THE WORLD!

Hint: nobody needs to explain thermodynamics in order to define a car!

The B itcoin value proposal:

1. Digital	(like	\$€)	
2. Solid, unforgeable	(like	\$ €)	
3. Peer to peer	(like	\$€)	
4. Decentralized Governance	(unlike	\$ €)	
5. Max 21 000 000	(max ∞ for	\$ €)	

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THE LONGEST TRACK RECORD IN THE WORLD: TOBAM BITCOIN ENHANCED STRATEGY, First Open-Ended BITCOIN vehicle

• Gross Performance in USD since inception (20/11/2017 - 31/7/2025)



12/30/2022	12/30/2024 🖺 Dail	y Calcula	ation Correlation	▼ USD ▼	
<filter></filter>		Correlation Matrix (5 Rows x	5 Columns)		
Security	21SHARES BITCOIN SINGLE	CME CF Bitcoin Ref. Rate	TOBAM BITCOIN-A2	GRAYSCALE BITCOIN TRUST BTC	BITCOIN TRACKER ONE EUR
11) 21SHARES BI	1.000	0.941	0.945	0.638	0.971
12) CME CF Bitcoi	0.941	1.000	0.999	0.577	0.934
13) TOBAM BITCO	0.945	0.999	1.000	0.604	0.939
14) GRAYSCALE B	0.638	0.577	0.604	1.000	0.655
15) BITCOIN TRA	0.971	0.934	0.939	0.655	1.000

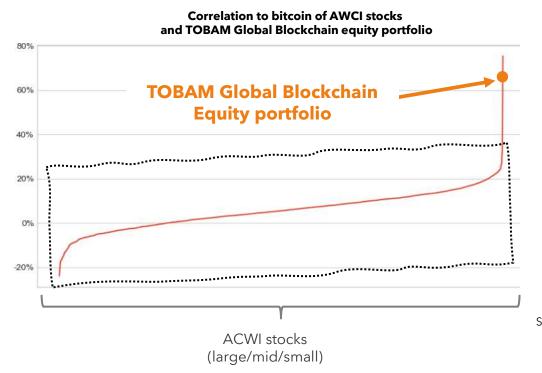
Source: TOBAM, Bloomberg. For informational purposes only. This material is provided for discussion purposes only and does not constitute investment advice, a recommendation, solicitation, offer, advice or invitation to enter in any transaction and should in no case be interpreted as such.

charges



2020: TOBAM BTC EQUITY FUNDS

- Portfolio Construction: The TOBAM Global Blockchain Equity portfolio is defined as the portfolio comprised of eligible stocks that minimize the tracking error to bitcoin while:
 - limiting turnover/market impact and constraining trades sizes.
 - complying with UCITS concentration guidelines 5/10/40 rule.



TOBAM Global Blockchain Equity portfolio is roughly as correlated to bitcoin as the universe's most correlated stock to it

Source: TOBAM. Data from 31/12/2022 to 31/12/2024.

TOBAM GLOBAL BLOCKCHAIN EQUITY STRATEGY DESCRIPTION

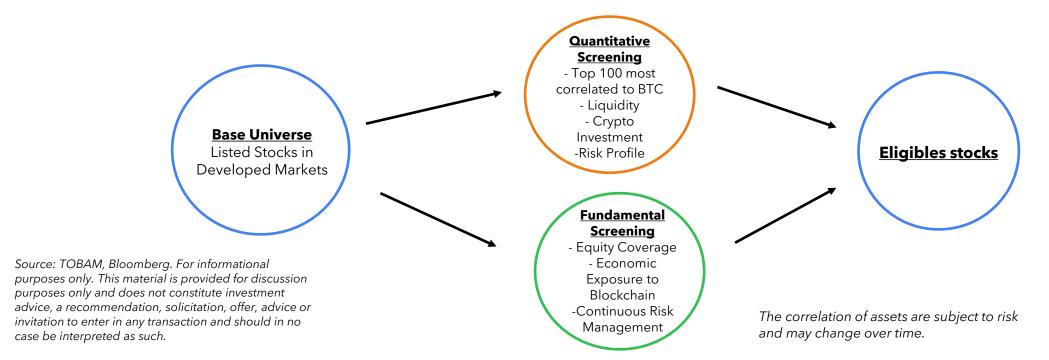


The idea: take advantage of the adoption of Bitcoin and Blockchain via listed equities:

- Eligible UCITS financial instruments
- With sufficient liquidity
- Highly correlated to the price of Bitcoin

The solution:

- Identify listed equities that have an economic exposure to BTC and Blockchain
- Select them according to fundamental and quantitative criteria
- Combine them in a way that minimizes the TE to the price of BTC





GROSS PERFORMANCE IN USD (21/09/2023 - 31/07/2025)

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TOBAM Global Blockchain Equity Strategy

July 31, 2025

Characteristics

BENCHMARK

BBG Dev Mkt L/M NR

BENCHMARK BLOOMBERG TICKER

DMN Index

PORTFOLIO MANAGER

Team Managed

BASE CURRENCY

USD

AVAILABLE STRUCTURES

- · Luxembourg vehicle
- Segregated mandate

LIQUIDITY

Daily

Marketing Document For Professional Investors Only

Monthly Gross Returns (%)

													YTD		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Strat.	Index	
2025	9.47	-11.12	-8.66	8.51	30.59	20.08	-0.81						49.99	10.55	
2024	-8.87	29.94	11.70	-11.47	7.55	0.94	1.86	-3.19	4.51	5.33	26.42	-8.09	60.33	19.12	
2023									-0.88	3.83	15.67	23.30	46.78	10.23	

Summary Statistics

	Global Blockchain Equity Strategy	BBG Dev Mkt L/M NR
Gross Return (Sept '23 - Jul '25)	252.99 %	45.16 %
Annualized Gross Return	97.19 %	22.22 %
Volatility	37.77 %	14.17 %
Sharpe ratio	2.44	1.22
Downside deviation	19.64 %	8.68 %
Sortino ratio	4.69	1.98
Correlation to index	0.67	
Beta to index	1,78	

Source: TOBAM, Bloomberg. For informational purposes only. This material is provided for discussion purposes only and does not constitute investment advice, a recommendation, solicitation, offer, advice or invitation to enter in any transaction and should in no case be interpreted as such.

Sources: TOBAM, Bloomberg.

Warning: Past performance is not an indicator or a guarantee of future performance. The value of your investment and income received from it can go down as well as up and you may not get back the full amount invested. Performance details provided are in USD and include reinvested dividends.

Performance returns and/or charts illustrating performance provided on this page are gross of fees. Sales charges and other commissions, other taxes and relevant costs to be paid by an investor are not included in the calculations. Performance may also be affected by currency fluctuations.



TOBAM GLOBAL BLOCKCHAIN EQUITY STRATEGY SIMULATED + LIVE RESULTS (31/12/2019 - 31/07/2025)

Period : 31/12/19 to 31/07/25	TOBAM Global Blockchain Equity Strategy	World market cap benchmark	ВТС
Annualized Gross Returns	36.7%	11.9%	65.2%
Volatility	40.7%	18.3%	63.4%
Correlation to Bitcoin	63.5%	26.3%	100.0%
Sharpe Ratio	0.8	0.5	1.0

Source: TOBAM, Bloomberg. For informational purposes only. This material is provided for discussion purposes only and does not constitute investment advice, a recommendation, solicitation, offer, advice or invitation to enter in any transaction and should in no case be interpreted as such.

Source: TOBAM and Bloomberg. Simulations were conducted between the 31/12/2019 and 01/08/2022 + live data until 31/07/2025. Weekly correlation calculations made from 31/12/2019 to 31/12/2024. Warning: Past performance is not an indicator or a guarantee of future performance. The value of your investment and income received from it can go down as well as up and you may not get back the full amount invested. Performance details provided are in USD and do not include reinvested dividends. Performance returns and/or charts illustrating performance provided on this page are Gross of management fees, sales charges and other commissions, other taxes and relevant costs to be paid by an investor are not included in the calculations. Benchmark returns reflect the Bloomberg Dev Market L/M NR Index after July 29, 2022 and to date. Benchmark returns prior to July 29, 2022 reflect the MSCI World Index. The returns of the two Reference Indices have been chained accordingly. TOBAM Global Blockchain Equity Strategy gross annualized performance in USD between Dec 31, 2019 and July 31, 2025 is 36.7%, while the performance net of fees and transaction costs is 36.1%.



TOBAM GLOBAL BLOCKCHAIN EQUITY STRATEGY SIMULATED + LIVE RESULTS (31/12/2019 - 31/07/2025)

CORRELATION TO BITCOIN

Period	TOBAM Global Blockchain Equity Strategy	World market cap benchmark
2020	52.1%	40.7%
2021	69.6%	20.1%
2022	69.2%	36.5%
2023	60.9%	4.6%
2024	62.6%	13.6%
YTD 2025	42.0%	20.8%
31/12/2019 - 30/06/2025	63.5%	26.3%

- Bitcoin-related stocks show consistent correlation with Bitcoin.
- No such things can be observed between global equities and Bitcoin.

Source: Simulations were conducted between the 31/12/2019 and 01/08/2022 + live data until 31/07/2025. Weekly correlation calculations made from 31/12/2019 to 31/07/2025. Warning: Past performance is not an indicator or a guarantee of future performance. The value of your investment and income received from it can go down as well as up and you may not get back the full amount invested. Performance details provided are in USD and do not include reinvested dividends. Benchmark returns reflect the Bloomberg Dev Market L/M NR Index after July 29, 2022 and to date. Benchmark returns prior to July 29, 2022 reflect the MSCI World Index. The returns of the two Reference Indices have been chained accordingly.



TOBAM GLOBAL BLOCKCHAIN EQUITY STRATEGY PEER GROUP COMPARISON



TOBAM GLOBAL BLOCKCHAIN stands out as it has always been focused on Bitcoin!

Source: TOBAM and Bloomberg. Live data from 21/09/2023. Warning: Past performance is not an indicator or a guarantee of future performance. The value of your investment and income received from it can go down as well as up and you may not get back the full amount invested. Performance details provided are in USD. Performance returns and/or charts illustrating performance provided on this page are Net of management fees. Sales charges and other commissions, other taxes and relevant costs to be paid by an investor are not included in the calculations.



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- 3. ConclusionS

MARCH 2025: ACCOUNTING FOR THE PERFORMANCE OF (MICRO)STRATEGY





ACCOUNTING FOR THE PERFORMANCE OF MICROSTRATEGY

First decomposition

YVES CHOUEIFATY, TRISTAN FROIDURE, AXEL CABROL. TOBAM, MARCH 2025.

ARSTRACT. Since 2020, MicroStrategy (MSTR) has defied critics and corporate finance pundits alike by adopting an unconventional yet highly effective Bitcoin Yield strategy. The significant issuance of shares, bonds, and convertible instruments led to a substantial increase in its Bitcoin holdings per share and delivered outsized rewards to its investors. Over the 2021-2024 period, its stock price significantly outperformed Bitcoin, growing 7.5x versus 3.2x despite a stable Ratio Premium (dollar premium relative to the value of its Bitcoin holdings).

We provide an exact decomposition of these rewards into three sources. First, the monetization of a significant part of the pre-existing premium into book value. Second, taking advantage of the performance of Bitcoin to which it has a growing exposure, and finally being subject to the variations in its Bitcoin Price Premium (dollar premium per Bitcoin held). As such, the performance of MSTR cannot be summarized solely by the variations in its Bitcoin holdings and Ratio Premium. Our decomposition explains why, despite an unchanged Ratio Premium between end-of-year 2020 and end-of-year 2024, MSTR has substantially outperformed Bitcoin. This suggests an investment thesis on successful Bitcoin Treasury Companies (BTC) for investors anticipating further Bitcoin growth, or on similarly successful strategies adopted by other companies trading at a premium.



3rd most downloaded article in 60 days ... after only 30 days ...

BITCOIN TREASURY COMPANIES



- MSTR is a Software & Services company that has been acquiring aggressively bitcoin since March 2021. Today it holds over 2.5% of all bitcoins.
- Bitcoins in MSTR count for more than 90% of the assets of the company with a core business estimated at 1.5 Bio\$ and a market cap > \$100 Bio.
- As of Q1 2025, Implied Bitcoin Price in MicroStrategy was 165,700\$ versus Bitcoin trading at 84,200\$



- → How to make sense of this premium?
- → What are the financial implications?





WHY WOULD THERE BE A BITCOIN YIELD? BITCOIN TREASURY COMPANIES

ACCOUNTING FOR THE PERFORMANCE OF MICROSTRATEGY

Date	S	В	Date	π	B,	Δs/s	Δb/b	Bitcoin Yield	β	$\Delta B_{\pi}/B$
31Dec20	39	\$28,996	31Dec20	1.76	\$22,099				1000	
31Dec21	54	\$46,334	31Dec21	1.03	\$ 1,504	18%	77%	50%	0.85	-93%
30Dec22	14	\$16,579	30Dec22	0.73	\$ (4,487)	4%	7%	3%	1.00	-398%
29Dec23	63	\$41,935	29Dec23	1.33	\$13,876	48%	43%	-3%	1.33	-409%
31Dec24	290	\$93,714	31Dec24	1.70	\$65,537	47%	136%	61%	1.21	372%
			Full Period			165%	533%	139%	1.36	197%

Bitcoin & MSTR Returns

Date	Bitcoin	MSTR
31Dec21	60%	40%
30Dec22	-64%	-74%
29Dec23	153%	346%
31Dec24	123%	359%
Full Period	223%	645%

Contributiond to MSTR Performance

Bitcoin Yield	Bitcoin Performance	Bitcoin Price Premium
50%	51%	-60%
3%	-64%	-13%
-3%	203%	147%
61%	149%	149%
139%	303%	203%

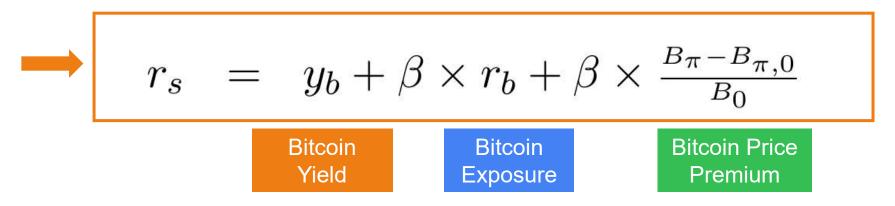
- → In the four years to 2024, MSTR outperformed Bitcoin by around 400%, with the Bitcoin Yield created by monetizing it premium contributing more than 100% to it.
- → Also, MSTR realized exposure (Beta) of 1.36 contributed to its outperformance vs. Bitcoin.



WHY WOULD THERE BE A BITCOIN YIELD? BITCOIN TREASURY COMPANIES

ACCOUNTING FOR THE PERFORMANCE OF MICROSTRATEGY

 An investment case can be made for investing in MicroStrategy as an alternative to Bitcoin, considering the following decomposition of the return of its shares:



- → Provided a high enough Bitcoin Yield achieved issuing new shares to buy Bitcoin, and a stable Bitcoin Price Premium, MSTR can be seen as "mechanically" outperforming Bitcoin by monetizing its premium
- → Furthermore, the Bitcoin Yield naturally leads to an increase in the realized Beta of the company to Bitcoin:

$$\beta = \beta_0 \left(1 + y_b \right)$$

BITCOIN TREASURY COMPANIES



- We currently monitor 60 companies holding BTC on their Balance sheet*
- In this universe only a few names are fully dedicated to the Bitcoin Yield Strategy: many miners, payment services or software companies are included
- (Micro)Strategy accounts for 76% of the total Bitcoin held by all listed companies in the World

MicroStrategy 72,491 59% 2.14241 0.14 7,220 0.3 0.0 -0.3 Marathon Digital Holdings Inc 4,060 95% 0.13745 0.09 2,059 1.1 2.2 3.2 Riot Platforms, Inc. 2,378 66% 0.05849 0.12 206 0.3 0.0 3.4 CleanSpark Inc 2,002 48% 0.04227 0.17 (55) 0.0 0.0 1.4 Tesla, Inc 786,583 0% 0.03292 6.8.35 (22,940) 0.0 0.1 1.1 Hut B Corp 1,237 67% 0.09890 0.12 261 0.6 0.0 2.2 Coinbase Global, Inc. 43,063 2% 0.03292 4.78 (4,010) 0.0 #N/A 10.3 Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0	Company	Market Capitalisation \$m	BTC / Mkt Cap	BTC / 1000sh	BTC premium	Net Debt \$m	Leverage risk	Operational Proftability Risk	FCF / sh
Riot Platforms, Inc. 2,378 66% 0.05489 0.12 206 0.3 0.0 0.3 4.4	MicroStrategy	72,491	59%	2.14241	0.14	7,220	0.3	0.0	-0.3
CleanSpark Inc 2,002 48% 0.04227 0.17 (55) 0.0 0.0 -1.4 Tesla, Inc 786,583 0% 0.00329 68.35 (22,940) 0.0 0.1 1.1 Hut 8 Corp 1,237 67% 0.09890 0.12 261 0.6 0.0 -2.1 Coinbase Global, Inc. 43,063 2% 0.03292 4.78 (4,010) 0.0 #N/A 10.3 Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #N/A 0.2 Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semiler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0	Marathon Digital Holdings Inc	4,060	95%	0.13745	0.09	2,059	1.1	2.2	-3.2
Tesla, Inc 786,583 0% 0.00329 68.35 (22,940) 0.0 0.1 1.1 Hut & Corp 1,237 67% 0.09890 0.12 261 0.6 0.0 2.1 Coinbase Global, Inc. 43,063 2% 0.03292 4.78 (4,010) 0.0 #N/A 10.3 Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #W/A -0.2 Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #W/A #W/A Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 #W/A <td>Riot Platforms, Inc.</td> <td>2,378</td> <td>66%</td> <td>0.05489</td> <td>0.12</td> <td>206</td> <td>0.3</td> <td>0.0</td> <td>-3.4</td>	Riot Platforms, Inc.	2,378	66%	0.05489	0.12	206	0.3	0.0	-3.4
Hut 8 Corp 1,237 67% 0.09890 0.12 261 0.6 0.0 2.1 Coinbase Global, Inc. 43,063 2% 0.03292 4.78 (4,010) 0.0 #N/A 10.3 Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #N/A 0.0 2.5 Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 11% 0.00205 6.98 (3,878) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 11% 0.00205 6.98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.0032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 3.6 Brooker Group's BROOK (BKK) 97 97% 0.0011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 2.5% 0.00238 0.33 (36) 0.0 1.8 1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 0.0 0.0 Bit Grams Limited 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00025 0.52 (28) 0.0 0.0 0.0 0.0 EXCUENT Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.0 0.0 0.0 0.0 EXCUENT Limited 144 92% 0.0035 0.52 (28) 0.0 0.0 0.0 0.0 HIVA 0.0 Ming Shing Group Holdings Limited 44 92% 0.00392 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 44 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 44 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 44 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 44 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 44 92% 0.03922 0.09 7 0.5 #N/A 0.0 0.0 0.2 9.8 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.007 9 0.5 #N/A 0.0 0.0 0.2 9.8 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.007 9 0.5 #N/A 0.0 0.0 0.2 9.8 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.007 9 0.5 #N/A 0.0 0.0 0.0 0.2 9.8 DMG Blockch	CleanSpark Inc	2,002	48%	0.04227	0.17	(55)	0.0	0.0	-1.4
Coinbase Global, Inc. 43,063 2% 0.03292 4,78 (4,010) 0.0 #N/A 10.3 Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #M/A -0.2 Metaplanet Inc. 1,174 29% 0.0878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #M/A #N/A Semier Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #M/A <td>Tesla, Inc</td> <td>786,583</td> <td>0%</td> <td>0.00329</td> <td>68.35</td> <td>(22,940)</td> <td>0.0</td> <td>0.1</td> <td>1.1</td>	Tesla, Inc	786,583	0%	0.00329	68.35	(22,940)	0.0	0.1	1.1
Block, Inc. 32,777 2% 0.01333 3.86 (2,029) 0.0 0.0 2.5 Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #N/A -0.2 Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semiler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A Bitfur, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,792 1% 0.00205 6.98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A	Hut 8 Corp	1,237	67%	0.09890	0.12	261	0.6	0.0	-2.1
Galaxy Digital Holdings 3,563 18% 0.05700 0.44 (2) 0.0 #N/A -0.2 Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,792 1% 0.00205 6.98 (3,878) 0.0 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 <t< td=""><td>Coinbase Global, Inc.</td><td>43,063</td><td>2%</td><td>0.03292</td><td>4.78</td><td>(4,010)</td><td>0.0</td><td>#N/A</td><td>10.3</td></t<>	Coinbase Global, Inc.	43,063	2%	0.03292	4.78	(4,010)	0.0	#N/A	10.3
Metaplanet Inc. 1,174 29% 0.00878 0.28 70 0.4 0.0 0.0 Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 1% 0.00205 6.98 (3,878) 0.0 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 <	Block, Inc.	32,777	2%	0.01333	3.86	(2,029)	0.0	0.0	2.5
Bitcoin Group SE 182 171% 0.76600 0.05 (12) 0.0 #N/A #N/A Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 1% 0.00205 6.98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 <td>Galaxy Digital Holdings</td> <td>3,563</td> <td>18%</td> <td>0.05700</td> <td>0.44</td> <td>(2)</td> <td>0.0</td> <td>#N/A</td> <td>-0.2</td>	Galaxy Digital Holdings	3,563	18%	0.05700	0.44	(2)	0.0	#N/A	-0.2
Semler Scientific 313 83% 0.33262 0.10 (15) 0.0 0.0 3.4 HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 1% 0.00205 6.98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.0011 0.08 (0) 0.0 0.1 -3.6 Bridams Limited 377 25% 0.00238 0.33 (36) 0.0 1.8	Metaplanet Inc.	1,174	29%	0.00878	0.28	70	0.4	0.0	0.0
HIVE Digital Technologies 235 76% 0.01337 0.11 12 0.1 2.1 #N/A BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 1% 0.00205 6.98 (3,878) 0.0 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.0 0.0 -0.8 SULT Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 Ming Shing Group Holdings Limited 4 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 4 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 4 92% 0.00375 6.91 352 18.0 0.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	Bitcoin Group SE	182	171%	0.76600	0.05	(12)	0.0	#N/A	#N/A
BitFuFu, Inc. 698 22% 0.01147 0.38 (45) 0.0 0.7 #N/A NEXON Co. Ltd 11,992 1% 0.00205 6,98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 <td>Semler Scientific</td> <td>313</td> <td>83%</td> <td>0.33262</td> <td>0.10</td> <td>(15)</td> <td>0.0</td> <td>0.0</td> <td>3.4</td>	Semler Scientific	313	83%	0.33262	0.10	(15)	0.0	0.0	3.4
NEXON Co. Ltd 11,992 1% 0.00205 6.98 (3,878) 0.0 0.0 0.8 Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 0.0 </td <td>HIVE Digital Technologies</td> <td>235</td> <td>76%</td> <td>0.01337</td> <td>0.11</td> <td>12</td> <td>0.1</td> <td>2.1</td> <td>#N/A</td>	HIVE Digital Technologies	235	76%	0.01337	0.11	12	0.1	2.1	#N/A
Exodus Movement Inc 1,175 9% 0.04055 0.90 (38) 0.0 #N/A -0.5 Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited 4 92% 0.03922 0.09 6 0.3 0.1 #N/A 0.0 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	BitFuFu, Inc.	698	22%	0.01147	0.38	(45)	0.0	0.7	#N/A
Canaan Inc. 195 54% 0.00032 0.15 (94) 0.0 2.6 0.0 Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.	NEXON Co. Ltd	11,992	1%	0.00205	6.98	(3,878)	0.0	0.0	0.8
Bitdeer Technologies Group 1,469 6% 0.00802 1.27 (90) 0.0 0.1 -3.6 Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 <t< td=""><td>Exodus Movement Inc</td><td>1,175</td><td>9%</td><td>0.04055</td><td>0.90</td><td>(38)</td><td>0.0</td><td>#N/A</td><td>-0.5</td></t<>	Exodus Movement Inc	1,175	9%	0.04055	0.90	(38)	0.0	#N/A	-0.5
Brooker Group's BROOK (BKK) 97 97% 0.00011 0.08 (0) 0.0 5.0 0.0 Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 <td>Canaan Inc.</td> <td>195</td> <td>54%</td> <td>0.00032</td> <td>0.15</td> <td>(94)</td> <td>0.0</td> <td>2.6</td> <td>0.0</td>	Canaan Inc.	195	54%	0.00032	0.15	(94)	0.0	2.6	0.0
Bitfarms Limited 377 25% 0.00238 0.33 (36) 0.0 1.8 -1.2 Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 <	Bitdeer Technologies Group	1,469	6%	0.00802	1.27	(90)	0.0	0.1	-3.6
Cipher Mining 803 10% 0.00286 0.78 51 1.2 0.0 -1.2 Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1	Brooker Group's BROOK (BKK)	97	97%	0.00011	0.08	(0)	0.0	5.0	0.0
Meitu 2,875 0% 0.00000 2874.56 (192) 0.0 0.0 0.0 Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00225 0.07 9 0.5 #N/A	Bitfarms Limited	377	25%	0.00238	0.33	(36)	0.0	1.8	-1.2
Bit Digital, Inc. 327 18% 0.00406 0.44 (84) 0.0 0.0 -0.8 SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5	Cipher Mining	803	10%	0.00286	0.78	51	1.2	0.0	-1.2
SOS Limited 5 1017% 0.57792 0.01 (279) 0.0 0.2 10.8 KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	Meitu	2,875	0%	0.00000	2874.56	(192)	0.0	0.0	0.0
KULR Technology Group, Inc. 344 16% 0.00235 0.52 (28) 0.0 0.0 -0.1 Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	Bit Digital, Inc.	327	18%	0.00406	0.44	(84)	0.0	0.0	-0.8
Phunware, Inc. 51 101% 0.03123 0.08 (112) 0.0 0.0 -1.2 NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	SOS Limited	5	1017%	0.57792	0.01	(279)	0.0	0.2	10.8
NFT Investments PLC 20 248% 0.00059 0.03 (1) 0.0 #N/A 0.0 The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	KULR Technology Group, Inc.	344	16%	0.00235	0.52	(28)	0.0	0.0	-0.1
The Blockchain Group 53 95% 0.00664 0.09 3 0.1 #N/A 0.0 Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	Phunware, Inc.	51	101%	0.03123	0.08	(112)	0.0	0.0	-1.2
Ming Shing Group Holdings Limited (44 92% 0.03922 0.09 6 0.3 0.1 0.1 Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	NFT Investments PLC	20	248%	0.00059	0.03	(1)	0.0	#N/A	0.0
Alliance Resource Partners 3,333 1% 0.00375 6.91 352 18.0 0.0 2.9 DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	The Blockchain Group	53	95%	0.00664	0.09	3	0.1	#N/A	0.0
DMG Blockchain Solutions Inc. 31 121% 0.00225 0.07 9 0.5 #N/A 0.0	Ming Shing Group Holdings Limited	44	92%	0.03922	0.09	6	0.3	0.1	0.1
	Alliance Resource Partners	3,333	1%	0.00375	6.91	352	18.0	0.0	2.9
Remixpoint, Inc. 303 12% 0.00358 0.68 (86) 0.0 0.1 0.1	DMG Blockchain Solutions Inc.	31	121%	0.00225	0.07	9	0.5	#N/A	0.0
	Remixpoint, Inc.	303	12%	0.00358	0.68	(86)	0.0	0.1	0.1

Universe screening

26

^{*}According to the bitcointreasury website run by BitBo Source: Bitbo

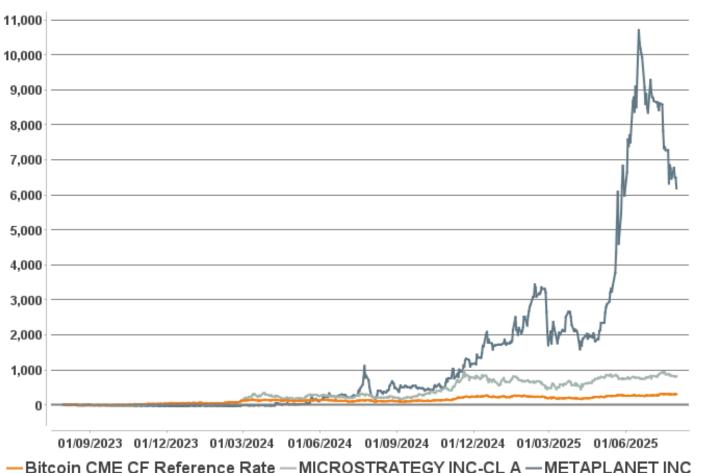


BITCOIN TREASURY COMPANIES

Over the last 2 years, new Bitcoin Treasury Companies emerged as an efficient alternative to create Bitcoin exposure

Strategy and Metaplanet total return compared to Bitcoin

from July 2023 to July 2025



Bitcoin CME CF Reference Rate

Return: 302.98% Annualized return: 100.74% Hist vol: 46.16% Sharpe ratio: 2.07

MICROSTRATEGY INC-CL A

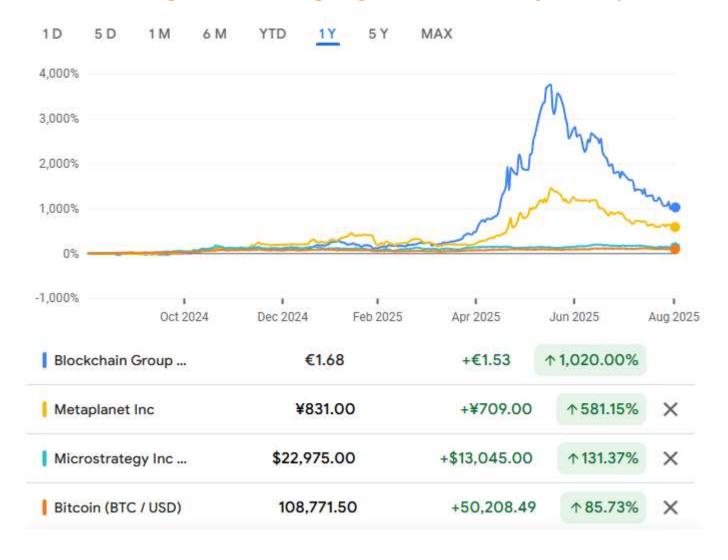
Return: 817.74%
Annualized return: 202.94%
Hist vol: 93.35%
Sharpe ratio: 2.12

METAPLANET INC

Return: 6,181.16% Annualized return: 692.54% Hist vol: 154.58% Sharpe ratio: 4.45



BITCOIN TREASURY COMPANIES There is an advantage to emerging BTC treasury companies



The Blockchain Group (ticker ALTBG), which became a bitcoin treasury company more recently than Metaplanet, outperformed (especially in terms of Sharpe Ratio) Metaplanet.



BITCOIN TREASURY COMPANIES

The Bitcoin Treasury Strategy is predicated on a credible commitment to accumulate Bitcoin over time

- Business risk:
 - When companies are backed by business operations weak operational profitability can weaken the Bitcoin Treasury accumulation commitment
 - Cash Flow negative cash flow even justified by investments in profitable businesses can create the need for unplanned sales of Bitcoin
- Leverage
 - Leverage on Bitcoin can be positive for shareholders if sustainable
 - Strong Loan-to-Value (Net Debt / BTC held) is necessary to ensure reasonable costs
 - Creative Financing can be icing on the cake: ex. MSTR low interest charge linked to convert
- Liquidity
- Quantitative filters
 - BTC / Market Cap
 - Operational Profitability
 - LTV

BITCOIN TREASURY COMPANIES



How to pick the right Bitcoin Treasury Companies?

- Unaltered and credible Bitcoin strategy
 - Solid operations is not enough marginal to no impact is better (ex. TSLA, MercadoLibre)
 - Legal / requalification risk we need some operations or financial structure that makes it different from a closed end Fund
 - Miners not always a perfect fit (ex. BitFarms Ltd structurally negative cash flow)
 - Abrupt change of strategy is a risk to be monitored (ex. Meitu)
- Reasonable debt levels
 - Convertible vs. conventional bonds
 - Monetizing implied volatility (a la MSTR) can be attractive
- Key future performance driver is the exposure to Bitcoin
 - Future Bitcoin Yield: is there a guidance? Is there a capital increase pre-defined strategy? Is it a mining yield (value will depend more on mining margins that are linked to Hash rate and capex)?
 - Initial Premium:
 - above 1x is a sign of Shares attractivity
 - 1 to 2x : can the Bitcoin Yield make up for the lower beta exposure to Bitcoin?
 - Above 2x: risk linked to the maintenance of a high premium

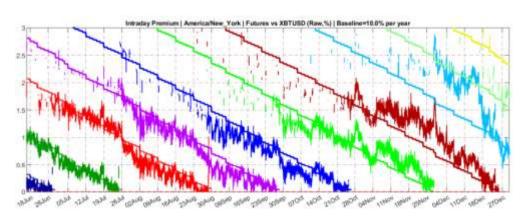
....GOING FURTHER

tobam*

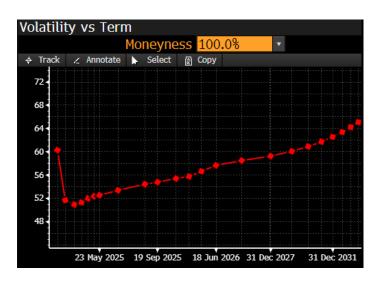
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- Apart from the obvious averaging possibility
- CME Futures have historically traded at an annualized premium of ~8% since their creation

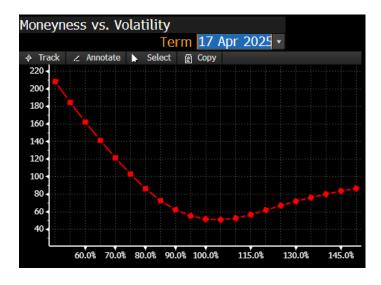




Short term downside IBIT implied volatility can be three times higher than at the money







Source: TOBAM, BBG, CME 11/04/2025

EXAMPLE OF PORTFOLIO PROPOSAL AS OF APRIL 2025



Available strategies:

β:

- Allocation to BTC
- Portfolio of BTC Treasury Companies

α :

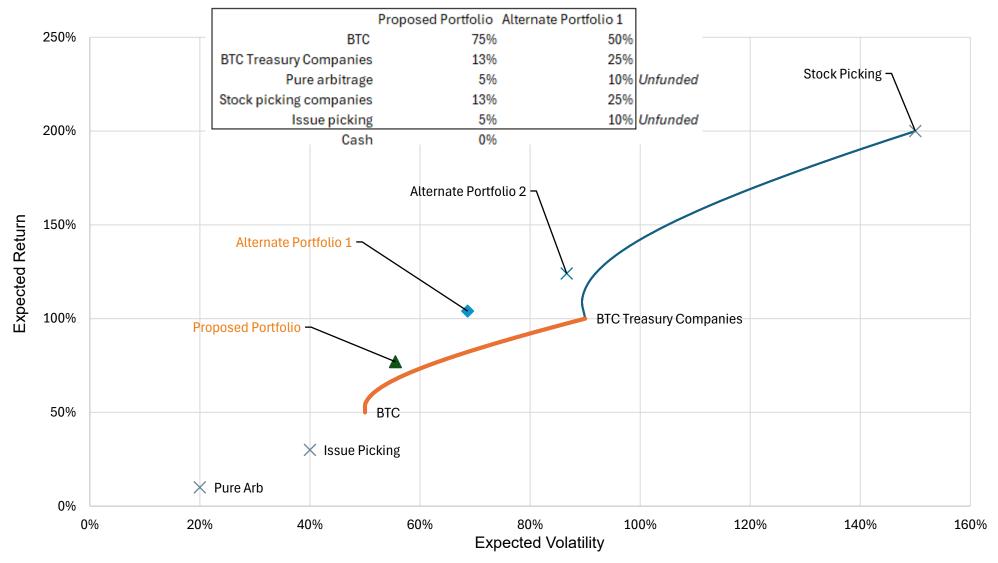
- BTC Pure arbitrage enhancement
- Stock picking companies (emerging BTC Treasury companies)
- Stock picking issues not only issuers

If	Expected Expected						
	Returns	Volatility	Correlation				
ВТС	50%	50%	100%	50%	40%		
BTC Treasury Companies	s 100%	90%	50%	100%	50%		
Pure arbitrage	e 10%	20%			100%		
Stock picking companies	s 200%	150%	40%	50%	100%		
Stock picking issues	s 30%	40%				100%	
Casl	า 0%	0%					100%

Then...

EXAMPLE OF PORTFOLIO PROPOSAL AS OF APRIL 2025





"TOBAM Bitcoin Enhanced" implements "Proposed portfolio"

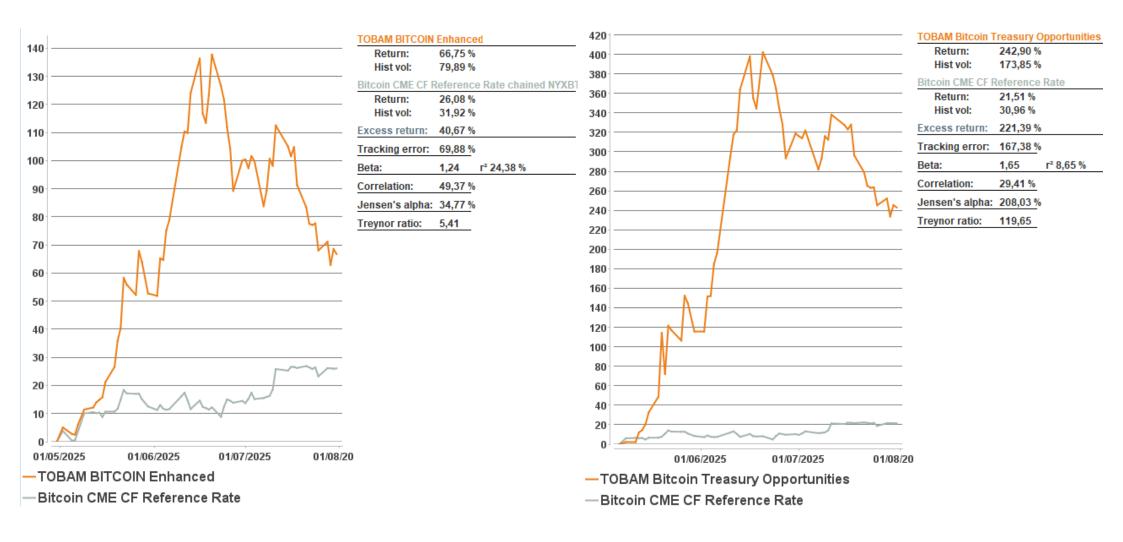
targeting over the LT 110% of BTC's σ and aims at a BTC x 150% return

"TOBAM Bitcoin Treasury Opportunities" implements "Alternate portfolio 1"

targeting over the LT 140% of BTC's σ and aims at a BTC x 200% return

UPDATE ON PERFORMANCE (3M AND ITD) AS OF 31/07/2025, USD NET OF FEES





Source: TOBAM, Bloomberg. For informational purposes only. This material is provided for discussion purposes only and does not constitute investment advice, a recommendation, solicitation, offer, advice or invitation to enter in any transaction and should in no case be interpreted as such.

Past performance ... is not indicative of future performance...



STRATEGY UPDATE 1/3: CAPITAL B (EX BLOCKCHAIN GROUP) ATM

Press Release June 9, 2025, 08:00 CET



The Blockchain Group Launches a €300 Million "ATM-type" Capital Increases Program with TOBAM

The Program allows TOBAM, on a daily basis, to subscribe to ordinary shares of the Company by submitting a subscription request after market close. Each request is subject to pricing and volume limits based on the market conditions of the previous trading day:

- The subscription price is set at the higher of (i) the closing price or (ii) the volumeweighted average price (VWAP) of the trading day preceding the request; and
- The number of shares requested may not exceed 21% of the trading volume of the trading day preceding the request.
- -> Ability to generate non-directional performance

Source: TOBAM

STRATEGY UPDATE 2/3: NEW CONVERTIBLES **INVESTMENTS**



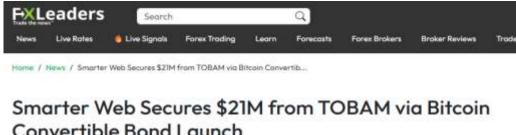




06 August 2025

The Smarter Web Company PLC ("The Smarter Web Company" or "Company")

Smarter Convert - \$21 Million Subscription



Convertible Bond Launch

Smarter Web has launched Smarter Convert, a bitcoin denominated convertible bond fully subscribed by

Written by: Arsien Butt . Thursday, August 7, 2025 . 2 min read

Last updated: Thursday, August 7, 2025

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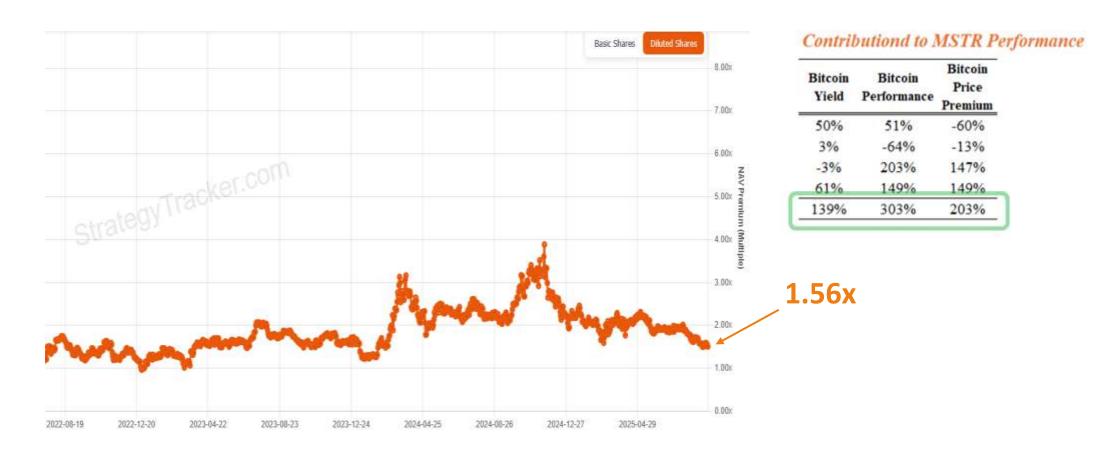
Quick overview

- Smarter Web has launched Smarter Convert, a \$21 million bitcoin denominated convertible bond fully subscribed by TOBAM, marking a first in capital markets.
- The bond allows conversion into equity at a 5% premium and includes a forced conversion option after 6 months if the stock price rises significantly.
- If not converted within 12 months, Smarter Web will repay 98% of the bond's value adjusted for bitcoin's price at maturity, linking repayment to BTC performance.
- The company plans to use the proceeds to increase bitcoin reserves while capping holdings at 30% of its treasury to manage volatility risks.





Bitcoin Price Premium ("mNAV") appreciation is an important contributor to BTC stocks performance:



-> Current mNAV levels of MSTR and peers (ALTBG, SWC, ...) are low when compared to historical averages.

WHICH INCORPORATION?



Example of a Mutual Fund Structure with segregation of duties

Daily NAVs, no lock up period, incorporated in the most regulated country of the world, perf fees over bitcoin's performance

Administrator caceis INVESTOR SERVICES	Custodian caceis	Auditor pwc	Asset Manager tobam
Calculates daily NAV by accessing: Cash account	subscription & redemption	Certifies accounts produced by custodian	Fundamental & empirical researchFork management
Public keys of the portfolio in the blockchain	 Audit of the holdings of the portfolio Holds the financial 	 Audit by PwC General Risk Management of TOBAM's set up and procedures 	 Notified by CACEIS of any subs/ redemption
	assets	'	 Management of the vehicle, BTC trading, choice of the platforms
			 In charge of cybersecurity procedure, and secured investment

process

SOME OF THE POINTS THAT MATTER THE MOST?



end-of-year 2020 and end-of-year 2024, MSTR has substantially outperformed Bitcoin. This suggests an investment

thesis on successful Bitcoin Treasury Companies (BTC) for investors anticipating further Bitcoin growth, or on

Purity of the model:

BTC only

Systematic use of proceeds

Externalized audited secured (insured) custody

Profitable legacy business (no cash flow leakage)

Tax audit

Regulatory audit

Transparency

Existence of a premium

Strong ability to raise capital in proportion of market cap (and in proportion of mNAV):

Powerful cap table

Seasoned exec team with financial engineering capability

Anchored in a powerful retail market



Intro to TOBAM & BTOBAM

2 . « Conventional » and Better Ways of getting an exposure to Bitcoin

3. CONCLUSIONS



TOBAM: 2 STRATEGIES PROVIDING YOU WITH A BETTER EXPOSURE TO BITCOIN

Both:

have daily liquidity with minimal market impact through specific constraints and monitoring focus on Bitcoin (no alt-coin) high beta to Bitcoin (min 90%)

do not carry any on-chain risk

have highest institutional standards in implementation

- Our passive strategy has been transformed into → "TOBAM Bitcoin Enhanced" it implements "Proposed portfolio"

 Maximum110% of BTC's volatility and aims at a BTC x150% return
- 2. We have launched a new strategy → "TOBAM Bitcoin Treasury Opportunities" it implements "Alternate portfolio 1"

 Maximum140% of BTC's volatility and aims at a BTC x200% return



TOBAM: A UNIQUE COMBINATION

- 1. TOBAM is a global international institutional Asset Manager with a long track record (19 years) of serving the most demanding clients in the world.
- 2. Our track record starts (officially, much earlier in fact) in 2017 as a Crypto asset manager

Which other Asset Manager, has had around 60% of its AuM sourced from the most sophisticated clients in the world (Public entities: SWF, Central Banks And Public Pensions) and is a reference player in Cryptos?

THE FUTURE OF MONEY... A POSSIBLE SCENARIO

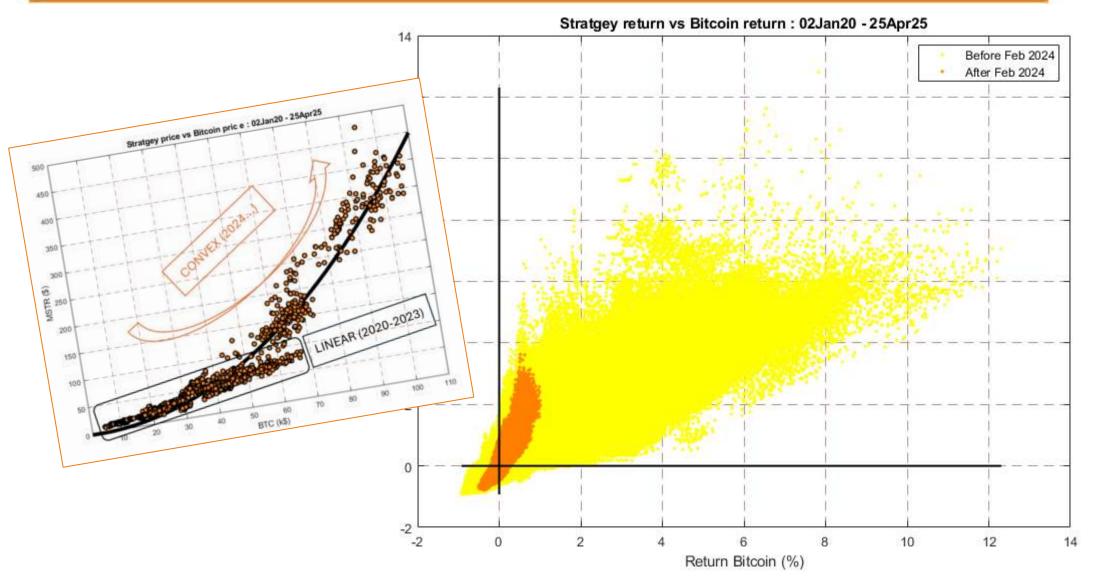




ACCOUNTING FOR THE PERFORMANCE OF MICROSTRATEGY tobam "PART II: RISKS CHARACTERIZATION"



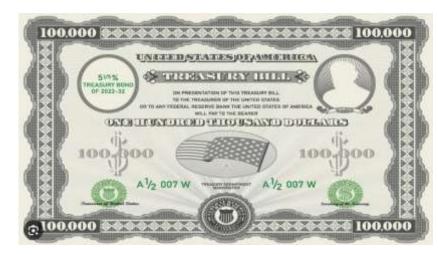
$$r_s = y_b + \beta \times r_b + \beta \times \frac{B_{\pi} - B_{\pi,0}}{B_0}, \quad \underline{\text{with}} \qquad \beta = \beta_0 \left(1 + y_b \right)$$



IMAGINE THEY DISCOVER OIL IN ABU DHABI...









DISCLAIMER



Some of the risks:

Risk of capital loss: the investment strategy does not benefit from any guarantee or capital protection. There is a risk that investors will not get back the full amount or any of the capital originally invested.

Liquidity Risk: the investment strategy may involve investing in assets (i.e. Bitcoin, stocks, derivatives) whose liquidity may decline sharply. In these conditions, volatility may widen significantly.

Volatility Risk: the investment strategy invests in Bitcoin and Blockchain related equity. There is a risk that the investment strategy will demonstrate high levels of volatility.

Risks linked to investment in Bitcoins: the investment strategy invests in a highly volatile and lowly regulated asset, and due to particular factors such as platforms disruptions or regulations, the investment strategy presents a greater degree of risk than that generally associated with investments on the major financial markets or assets.

Cybersecurity Risk: cryptocurrencies and platforms can be subject to cyber attacks and risks of hacking. The investment strategy by investing essentially in bitcoin might also be subject to such attacks.

Counterparty Risk: the risk that the principal will not be returned due to the health and solvency of the party that holds the assets.



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The constraints and fees applicable to an actual portfolio would affect the results achieved. The value and the income produced by a strategy may be adversely affected by exchange rates, interest rates, or other factors. This material, including backtests, is based on sources that TOBAM considers to be reliable as of the date shown, but TOBAM does not warrant the completeness or accuracy of any data, information, opinions or results.

The carbon impact shown is the weighted average of carbon emissions corresponding to scopes 1 and 2 of the GHG Protocol. Data on emissions used is obtained from a number of sources including company reports, CDP questionnaire (Carbon Disclosure Project) or the estimation model. The data does not take into account all emissions induced by the firm.

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ABOUT TOBAM



TOBAM is an asset management company offering innovative capabilities designed to maximize the benefits of scientific research to build efficient investment exposures. TOBAM's expertise relies on 3 core pillars:

- TOBAM's Maximum Diversification® approach, supported by original, patented research and a mathematical definition of diversification, provides clients with diversified core exposure, in equity and fixed income markets.
- A research driven, *Solutions* division (TOBAMSolutions®), dedicated to build customized solutions and services to sophisticated institutional investors,
- A LBRTY® strategy range, which aims to help investors substantially mitigate their exposure to autocratic regimes in their portfolio.

In line with its mission statement and commitment to diversification, TOBAM also launched a satellite activity (CRYPTOBAM®) on cryptocurrencies in 2017.

TOBAM Maximum Diversification®, TOBAMSolutions®, TOBAM LBRTY® and CRYPTOBAM® illustrate TOBAM's systematic "out of box" dedication to demanding investors.

TOBAM manages north of USD 2 billion (as of 31 December 2024). Its team includes 31 finance professionals based in Paris, New York and Dublin. For more information, please visit www.tobam.fr or tobamdirect.com

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