TOBAM PRESENTATION

November 27, 2024 - NJV Athens Plaza

Our mission: "Provide rational and professional solutions to long term investors in the context of efficient markets" toban unbiased.

LUNCH SPEAKER





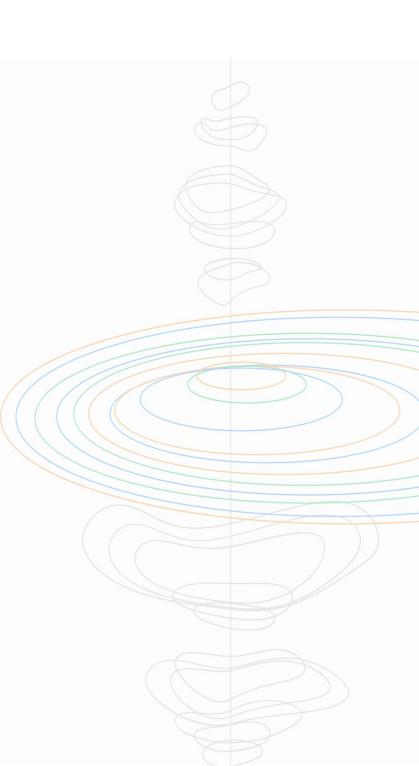
Yves Choueifaty

President and Founder, TOBAM

AGENDA:

12:00 pm - 12:20 pm: welcoming participants 12:30 pm -1:45 pm: lunch-presentation 1:45 pm -2 pm: Q&A Introduction to TOBAM and Anti-Benchmark
TOBAM Product Offering
Conclusion

• Appendix



THE COMPANY

Independent and employee-owned

- Created in 2005
- Part of CalPERS' EMD program (2011 2021)
- Approx. USD\$ 4 billion under management
- 39 financial professionals, 13 nationalities
- Regulated in France and SEC-registered

The Maximum Diversification[®] approach, supported by original research and a mathematical definition of diversification, provides investors with diversified core exposure, both in equity and fixed income markets.

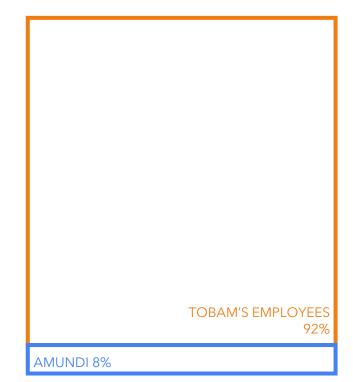
THE FOUNDER

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



SHAREHOLDER STRUCTURE



Source: TOBAM. Figures as of June 28, 2024.



RESEARCH DRIVEN ASSET MANAGEMENT

41% of the team involved in portfolio management & research (16 people)

- Identify issues, create solutions, and guarantee the rationality of solutions
- Product research & development
- Implementation innovation

//

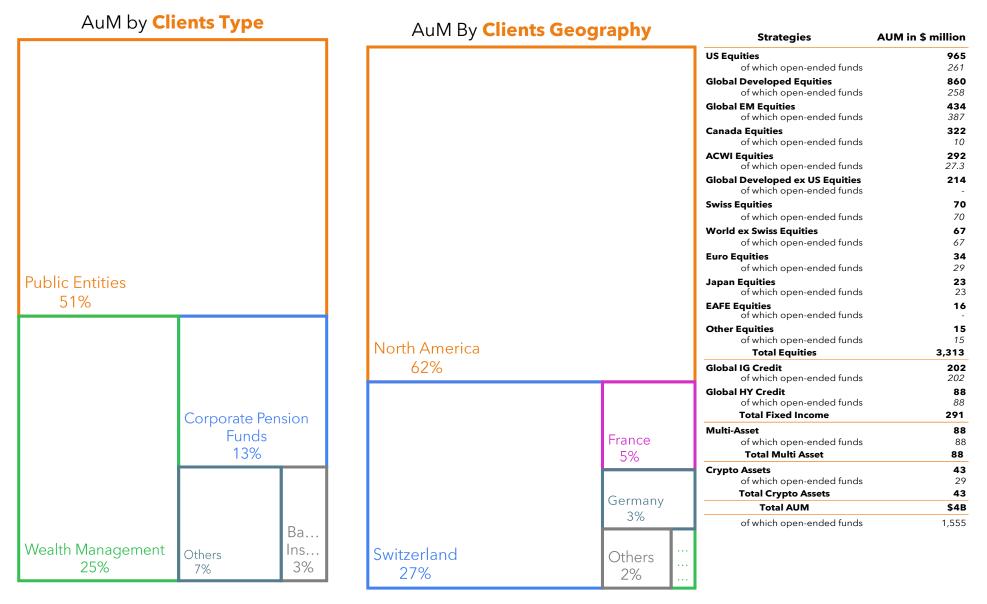
The team is encouraged to think out of the box in its approach to 'conventional wisdom' to the greatest extent possible. As such, the team's diversity is a critical part of how well it functions. We have a large range of expertise, from mathematicians to engineers, economists and traders, all of which feeds in to the team's ability to look at problems or assumptions from a very broad spectrum of viewpoints.

Tristan Froidure, Head of Research





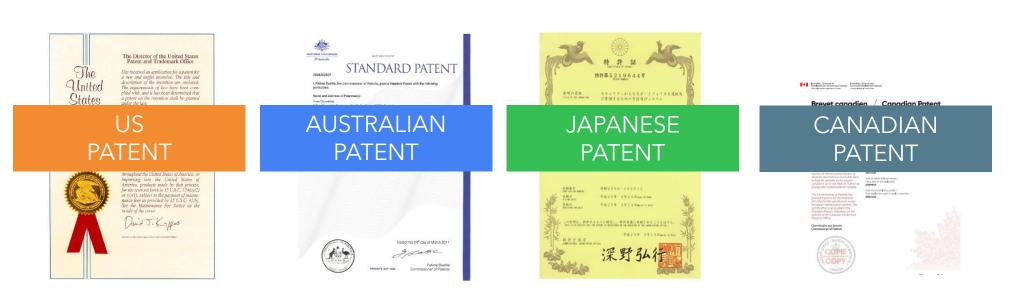
ASSETS UNDER MANAGEMENT



Key Risks: The value of your investment and the income from it will vary and your initial investment amount is not guaranteed. Allocations are subject to change. Data as of June 28, 2024



GRANTED PATENTS



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AWARDS



WORLD FINANCE

PROFESSIONAL PENSIONS



TOBAM's Anti-Benchmark® Multi Asset: "Best Flexible Fund" Grands Prix de la Gestion d'Actifs 2020, Paris



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
- Funds Europe Awards 2015



"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



8















- - - "CIO of the Year"
 - "Profit for Non Profit Special Award, TOBAM Anti-Benchmark Emerging Markets Equity Fund" Profit for Non Profit Awards 2014, Paris

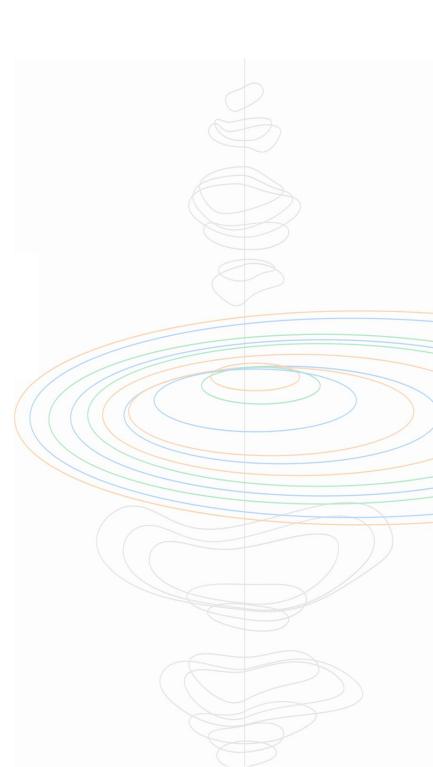
Introduction to TOBAM and Anti-Benchmark



- 2006: Maximum Diversification®
- 2017: CRYPTOBAM®
- 2023: LBRTY®

3. Conclusion

4. Appendix





MIGRATING TOBAM FROM A MONO-CORE ...





.... To Multi-Core



CrypTOBAM[®]

TOBAMSolutions®

Maximum Diversification®

LBRTY®



THE "MAXIMUM DIVERSIFICATION®" APPROACH

Maximum Diversification[®]: a quantitative investment approach based on a unique principle - building the Most Diversified Portfolio[®]

The MDP[®] portfolio objective: outperform the market cap index with less risk, by increasing diversification

- Definition of a mathematical measure of a portfolio's diversification: the Diversification Ratio[®] (patented),
- Set up of an investment process that increases this Diversification Ratio®,
- Long-only, non leveraged and fully invested

The MDP®:

- neutrally allocates risk to the effective independent sources of risk,
- Attempts to be the undiversifiable portfolio,
- provides a theoretical definition of the market risk premium

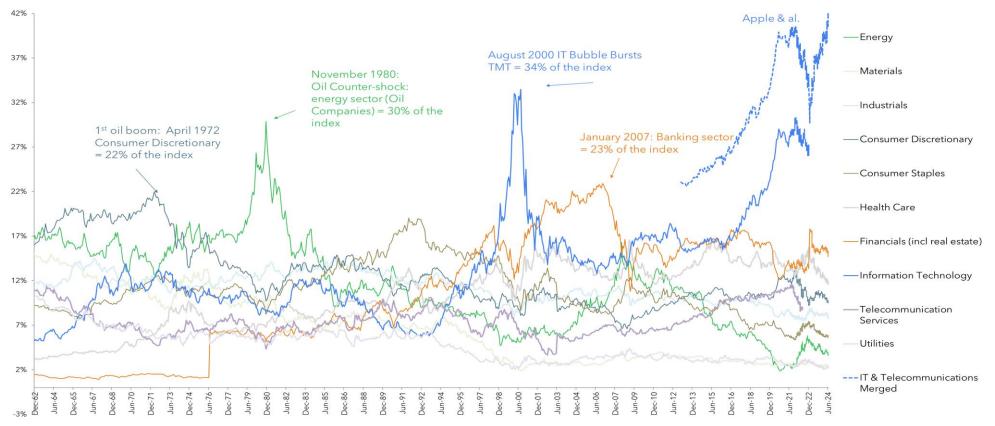


TOBAM Founder Yves Choueifaty meeting with Dr. Harry Markowitz, Nobel Prize winner (San Diego - June 2019)



CAP-WEIGHTED INDICES TAKE ON HEAVY STRUCTURAL BIASES...

- As stocks appreciate, the greater their index representation, and conversely so
- The greater the imbalance, the greater the impact of changes in price (volatility)
- Using a biased benchmark as a reference carries heavy (and costly) implicit bets
- These implicit bets evolve dynamically over time



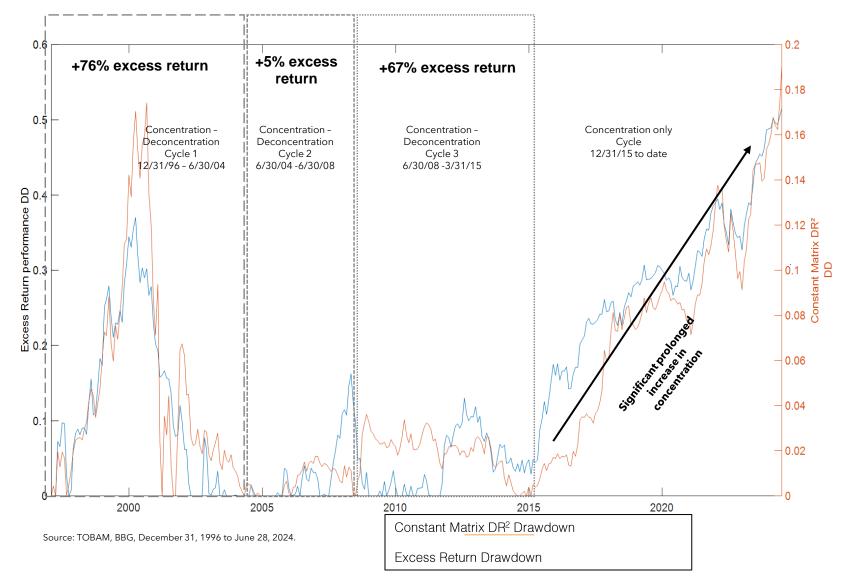
US Equity Market - Sector Weights

Source: TOBAM calculations - Figures as of June 28, 2024. **Key Risks:** The value of your investment and the income from it will vary and your initial investment amount is not guaranteed. Allocations are subject to change. Of note, GICS introduced a new sector classification in September 2018, that impacted US sector weights. Please contact us for TOBAM's view on the reclassification and access to our dedicated dashboard on the topic.

VALUE PROPOSAL



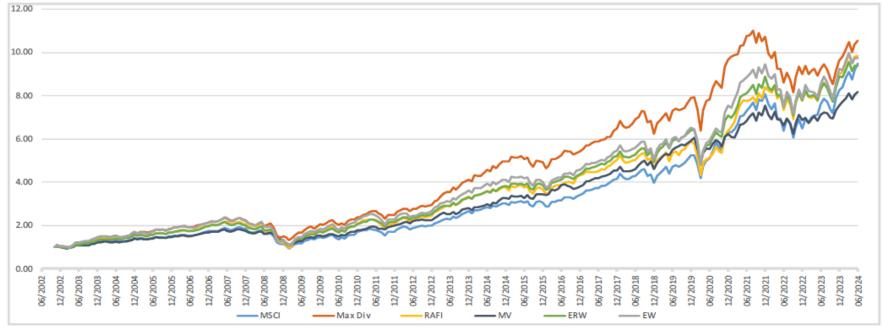
Case of US strategy





USA Investment Universe

Gross Cumulative Performance since October 2002



Statistics Summary

	MSCI	Max Div	RAFI	MV	ERW	EW
Total return	849.7%	955.1%	884.0%	719.1%	838.0%	874.6%
Annualised return	10.95%	11.49%	11.13%	10.19%	10.89%	11.08%
Volatility	14.88%	14.16%	16.31%	11.69%	14.24%	17.07%
Return Per Unit Risk	0.74	0.81	0.68	0.87	0.76	0.65
Tracking error	0.00%	5.08%	4.88%	6.19%	3.69%	4.61%
Information Ratio	0.00	0.11	0.04	-0.12	-0.02	0.03

Source: TOBAM and Bloomberg. Returns are gross of fees and stated in USD, net returns are not available for indices. One cannot invest directly in an index. An investment in a vehicle tracking an index would include amongst other things, advisory fees and expenses. Performance information for TOBAM Maximum Diversification® indices are based on back tested returns from October 2002 to November 2011, live data has been used from launch in November 2011 to June 2024.

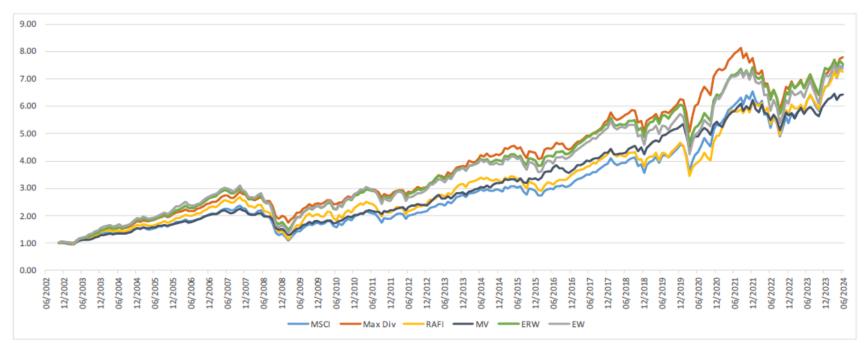
Performance information for TOBAM Diversified Benchmark indices are based on back tested returns for the entire period presented.

Back tested results are for information purposes only. They are intended to illustrate how the strategy may have behaved over the period prior to it being launched. Past performance is not indicative of future results. Please see the disclaimer page located at the end of this note for important additional disclosures.



World Developed Investment Universe

Gross Cumulative Performance since October 2002



Statistics Summary

	MSCI	Max Div	RAFI	MV	ERW	EW
Total return	649.7%	680.6%	626.9%	542.7%	654.9%	635.8%
Annualised return	9.74%	9.95%	9.59%	8.97%	9.78%	9.65%
Volatility	15.28%	12.58%	16.75%	11.09%	14.34%	16.59%
Return Per Unit Risk	0.64	0.79	0.57	0.81	0.68	0.58
Tracking error	0.00%	5.73%	4.38%	7.16%	3.68%	3.75%
Information Ratio	0.00	0.04	-0.04	-0.11	0.01	-0.03

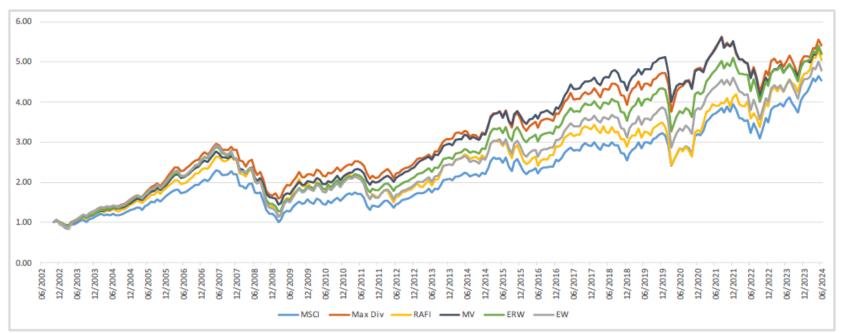
Source: TOBAM and Bloomberg. Returns are gross of fees and stated in USD, net returns are not available for indices. One cannot invest directly in an index. An investment in a vehicle tracking an index would include amongst other things, advisory fees and expenses. Performance information for TOBAM Maximum Diversification® indices are based on back tested returns from October 2002 to November 2011, live data has been used from launch in November 2011 to June 2024.

Performance information for TOBAM Diversified Benchmark indices are based on back tested returns for the entire period presented. Back tested results are for information purposes only. They are intended to illustrate how the strategy may have behaved over the period prior to it being launched. Past performance is not indicative of future results. Please see the disclaimer page located at the end of this note for important additional disclosures.



Eurozone Investment Universe

Gross Cumulative Performance since October 2002



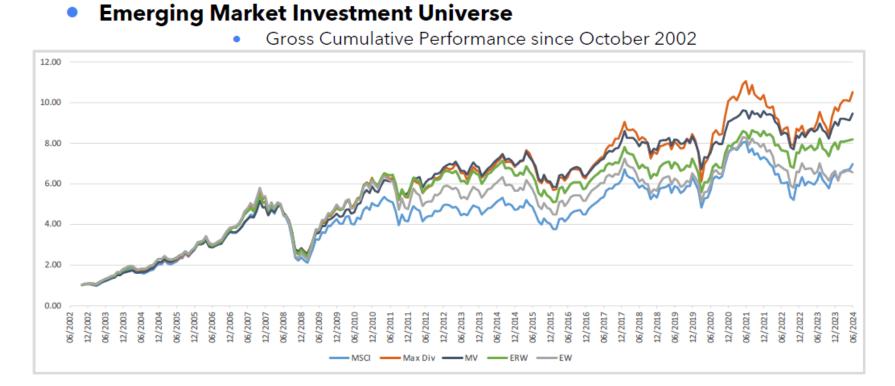
Statistics Summary

	MSCI	Max Div	RAFI	MV	ERW	EW
Total return	354.0%	439.7%	404.7%	419.4%	419.5%	378.1%
Annualised return	7.23%	8.09%	7.76%	7.90%	7.90%	7.49%
Volatility	16.60%	13.56%	18.94%	13.04%	15.01%	17.25%
Return Per Unit Risk	0.44	0.60	0.41	0.61	0.53	0.43
Tracking error	0.00%	6.34%	4.87%	5.91%	3.72%	3.47%
Information Ratio	0.00	0.14	0.11	0.11	0.18	0.07

Source: TOBAM and Bloomberg. Returns are gross of fees and stated in EUR, net returns are not available for indices. One cannot invest directly in an index. An investment in a vehicle tracking an index would include amongst other things, advisory fees and expenses. Performance information for TOBAM Maximum Diversification® indices are based on back tested returns from October 2002 to November 2011, live data has been used from launch in November 2011 to June 2024.

Performance information for TOBAM Diversified Benchmark indices are based on back tested returns for the entire period presented. Back tested results are for information purposes only. They are intended to illustrate how the strategy may have behaved over the period prior to it being launched. Past performance is not indicative of future results. Please see the disclaimer page located at the end of this note for important additional disclosures.





Statistics Summary

	MSCI	Max Div	MV	ERW	EW
Total return	598.7%	952.0%	846.3%	717.2%	558.1%
Annualised return	9.39%	11.47%	10.93%	10.18%	9.09%
Volatility	20.48%	18.23%	16.01%	17.96%	20.60%
Return Per Unit Risk	0.46	0.63	0.68	0.57	0.44
Tracking error	0.00%	6.01%	6.29%	5.24%	4.66%
Information Ratio	0.00	0.35	0.25	0.15	-0.06

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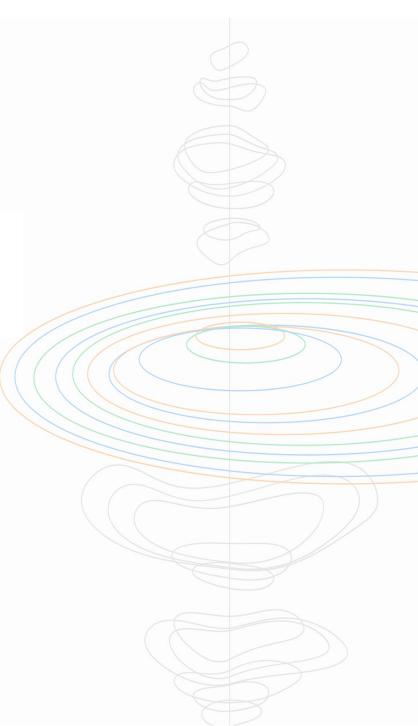
Introduction to TOBAM and Anti-Benchmark



- 2006: Maximum Diversification®
- 2017: CRYPTOBAM®
- 2023: LBRTY®

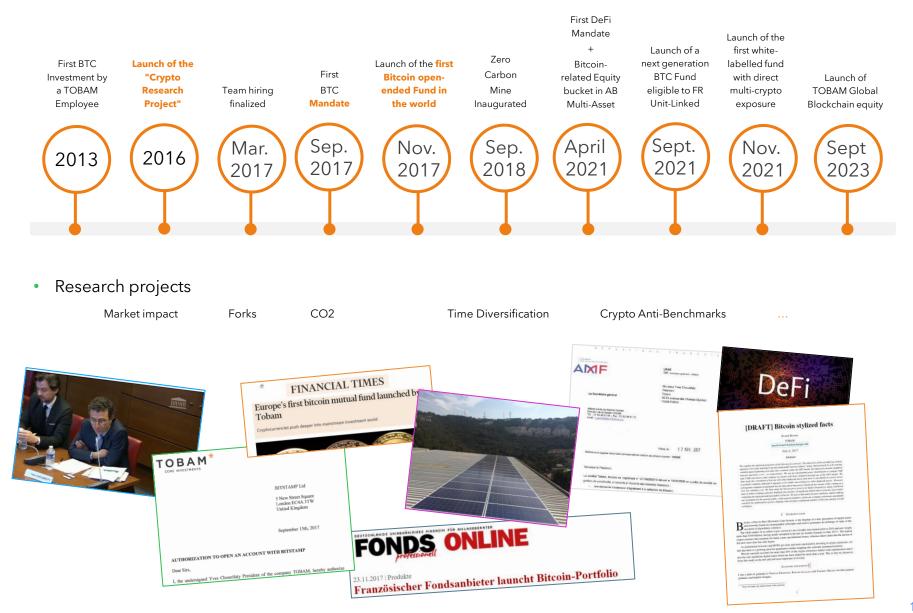
3. Conclusion

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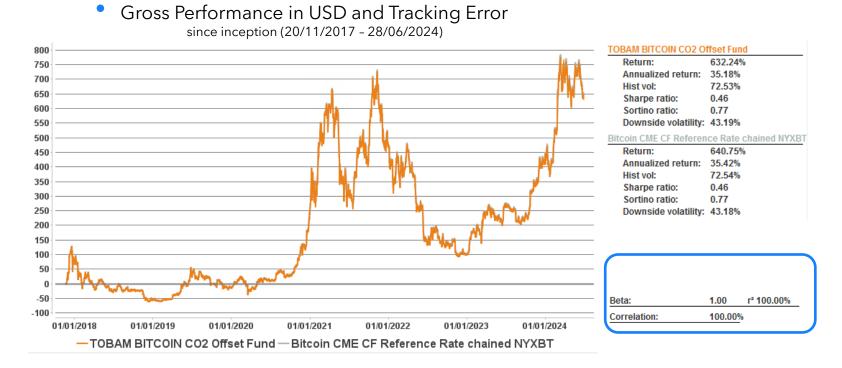


TOBAM'S JOURNEY INTO CRYPTO





WHY TOBAM BITCOIN CO2 OFFSET FUND? THE GOOD NEWS: ACCURATE TRACKER OF BTC



06/28/2022 🗂	- 06/28/2024 🗄 Daily	• C	alculation Correlation	VSD V	
<filter></filter>	(Correlation Matrix (5 Ro	ws x 5 Columns)		
Security	21SHARES BITCOIN SINGLE CME CF	Bitcoin Ref. Rate TOBA	M BITCOIN-A2 GRAYSCALE	BITCOIN TRUST BTC BITCOIN T	RACKER ONE EUR
11) 21SHARES BI	1.000	0.943	0.945	0.621	0.971
12) CME CF Bitcoi	0.943	1.000	0.990	0.549	0.932
13) TOBAM BITCO	0.945	0.990	1.000	0.568	0.934
14) GRAYSCALE B	0.621	0.549	0.568	1.000	0.644
15) BITCOIN TRA	0.971	0.932	0.934	0.644	1.000

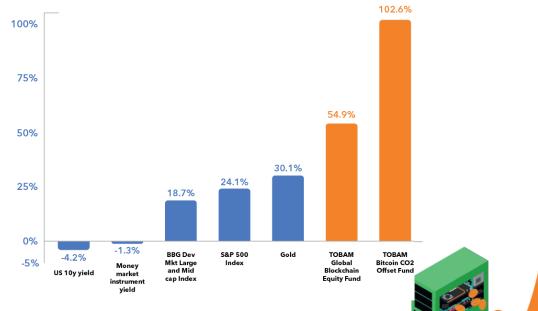
Sources: TOBAM, Bloomberg. Returns reflect live data from November 20, 2017 to Jun 28, 2024.

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. 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. The risk free rate of return is calculated using the one month USD LIBOR rate. TOBAM Bitcoin Fund gross annualized performance between November 20, 2017 to Mar 28, 2024 is 40.2%, while the performance net of fees and transaction costs is +36.7%.



BLOCKCHAIN AND BITCOIN: RIDING THE WAVE POST US ELECTIONS

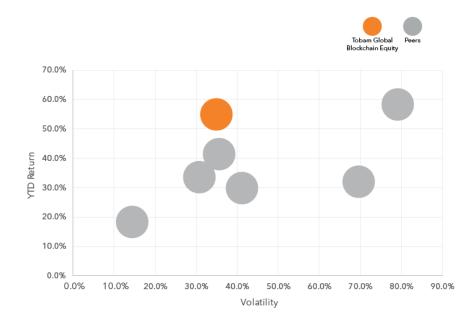
- Bitcoin reached a record high above \$90,000 on Wednesday, November 13, as the world's biggest cryptocurrency benefits from president-elect Donald Trump's pledge to ease regulation around digital tokens.
- The Republican said during the campaign that he planned to make the United States the "bitcoin and cryptocurrency capital of the world" by:
 - Creating a National Bitcoin Reserve and Recognition: Trump has discussed the idea of a national Bitcoin reserve, which would treat Bitcoin as a strategic asset.
 - Bolstering Domestic Mining Activities: By incentivizing crypto mining within U.S. borders, Trump hopes to increase domestic control
 over the Bitcoin network, addressing concerns about reliance on foreign mining hubs. This would also align with his vision of making crypto
 "made in America"
 - Opposing to CBDCs: Trump has voiced strong opposition to the development of a U.S. central bank digital currency (CBDC), viewing it
 as government overreach. He intends to halt federal work on a CBDC, instead directing attention to private digital assets like Bitcoin,
 which align better with his administration's views on financial autonomy and decentralized finance.
- The positive newsflow strongly impacted:
 - TOBAM Bitcoin CO2 Offset Fund: This fund, launched in 2017, possesses the longest track record in the world of an open-ended fund invested in bitcoin (TE ex-post 0.41%).
 - TOBAM Global Blockchain Equity Fund: This UCITS fund invested in blockchain-related stocks, managed to capture a large part of the upside of the Bitcoin surge.



Performance



BLOCKCHAIN AND BITCOIN: RIDING THE WAVE POST US ELECTIONS



- The TOBAM Global Blockchain Equity Fund achieved a one-year return of 54.9%, outperforming all its main competitors. With a volatility of 34.9%, the fund offers a Sharpe ratio of 1.7 which also surpasses that of the other presented funds.
- In summary, 2024 was a real test for bitcoin and blockchain players. Despite the challenges, the resilience of TOBAM's strategy, and ability to adapt
 to changing conditions helped limit losses and seize growth opportunities.



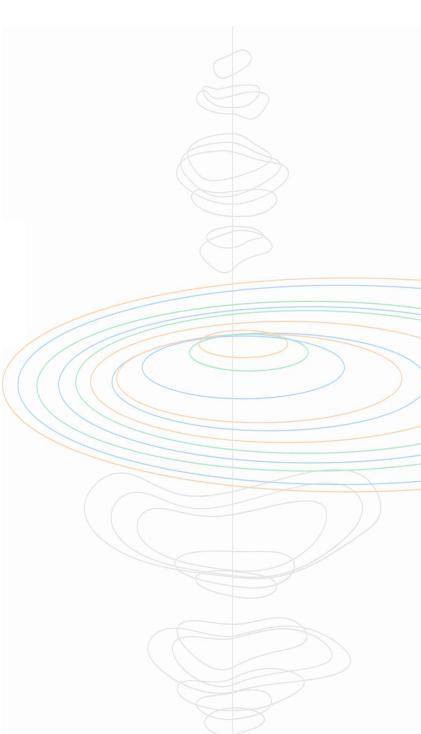


Introduction to TOBAM and Anti-Benchmark
 TOBAM Product Offering

- 2006: Maximum Diversification®
- 2017: CRYPTOBAM®
- 2023: LBRTY®

3. Conclusion

4. Appendix





TOBAM'S COMMITMENT TO HUMAN RIGHTS ADDRESSING THE AUTOCRACY RISK

TOBAM's Journey into Human Rights





TOBAM'S COMMITMENT TO CIVIL RIGHTS & DEMOCRACY ADDRESSING THE AUTOCRACY RISK DRIVER ... BECAUSE IT WORKS

Our convictions:

Not "Good" "vs "evil" But "what works" vs "what doesn't work"

- It is about creating value in the long run
- It is not about being philanthropic with investors' money
- It is about integrating what contributes to value creation and removing what contributes to value destruction
- It is not about discriminating between evil and good; it is about promoting what works, what lasts and will survive on the long run and what will create value

Democracy, Respect of Human Rights, Freedom of Speech, Promotion of Diversity and Pluralism are key to innovation, creativity and economic growth

1 Introduction to TOBAM and Anti-Benchmark

2. TOBAM Product Offering

• 2023: LBRTY®

 Investment Philosophy – The case for Civil and Democratic Rights







INVESTMENT PHILOSOPHY

- In the long-run investors in countries with oppressive regimes and arbitrary rules are exposed to unrewarded risks.
- Notably due to arbitrary state behaviour, uncompensated expropriations, social unrest, corruption, war.... In the long run they will underperform others.

Numerous research have demonstrated the cost of dictatorship and lack of civil liberties

2 The Economic Effects of Dictatorships JOSE MARIA MARAVALL

JOURNAL ARTICLE

Dictatorial Institutions and their Impact on Economic Growth

JENNIFER GANDHI



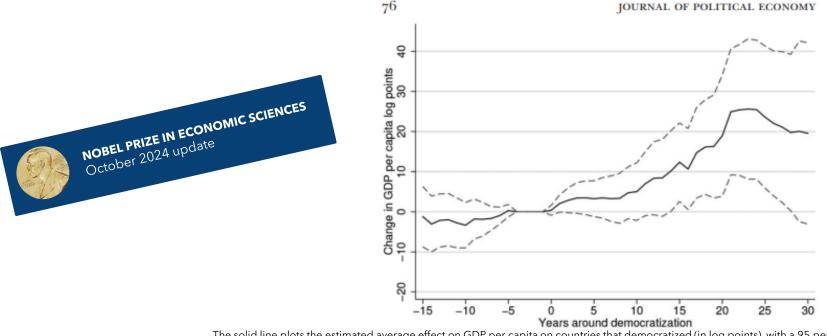




DEMOCRACY DOES CAUSE GROWTH (ACEMOGLU, ROBINSON & AL. 2019)...

Acemoglu & al (2019) identify 122 democratizations and 71 reversals from democracy based on data from 1960 until 2010 and show that:

- > There is a positive causal effect of democracy on economic growth.
- A country that transitions from nondemocracy to democracy achieves about 20 percent higher GDP growth per capita in the next 25 years than a country that remains a nondemocracy.
- > It drives greater investments in capital, schooling, and health.
- The effect of democracy does not depend on the initial level of economic development/level of income.



The solid line plots the estimated average effect on GDP per capita on countries that democratized (in log points), with a 95 percent confidence interval in dashed lines



BUSINESS WILL EXIT CHINA AS AUTOCRACIES HINDER THEIR OPERATIONS

BlackRock's Fink calls for Western firms to question ties with China :

- "Each country, each company, has to reassess what that means"
- "We all have to re-evaluate that, like we have to re-evaluate a risk in liquidity traps, a risk in everything" when operating in autocratic regions

Inside Goldman Sachs' years-long power struggle over its China venture

Source: FT, November 14, 2024

A cautionary tale for Western institutions:

 Goldman Sachs partnered with Fang a Chinese investment banker, expecting the alliance to last briefly until they could directly own their Chinese securities and investment banking business...



"We have businesses in China, I'm sure everybody here has some businesses in China [...] We all have to re-evaluate that"

BlackRock CEO Larry Fink, 1st October 24 Berlin Global Dialogue conference

Source: John Lamparski via Getty Images

• ...The deal lasted two decades, benefiting Fang and leaving Goldman eager to exit.



LAUNCHING FIRST FUND FOCUSED ON CIVIL RIGHTS & DEMOCRACY ADDRESSING THE AUTOCRACY RISK

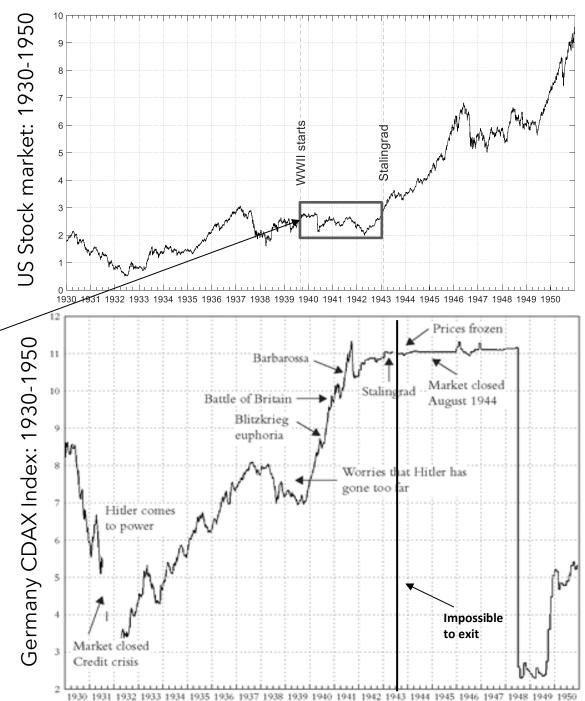
- Identifying the "autocracy risk driver"
- Building a portfolio under exposed to the autocracy risk

- 1. There is an autocracy risk driver
- 2. This risk driver is negatively rewarded
- 3. Most of the exposure to the autocracy risk driver is indirect
- 4. The autocracy risk driver is independent from other risk drivers

Yves Choueifaty: "BEING EXPOSED TO AUTOCRACY, CONSIST INTO BEING EXPOSED TO A REVERSE J-CURVE."



- Germany's stock market experienced a sharp rise from 1939 to 1943 .
- This rise was not present in the US market.
- From 1944, prices were frozen, and it was impossible to get out from the German stock market.
- The German stock market reopened in mid-1948 with a fall of ~80% (+inflation).

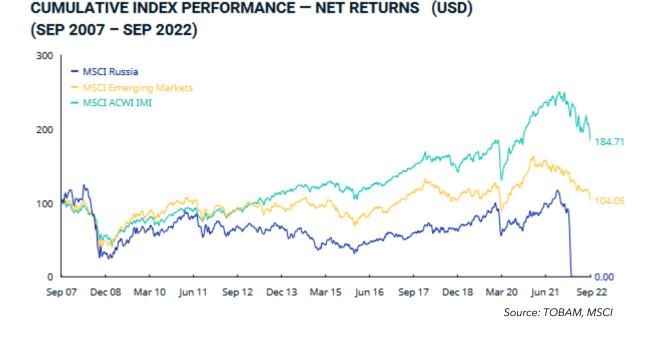


Source: Wealth, war and wisdom, by Biggs, Barton, John Wiley & Sons, 2009.



Reverse J-Curve: THE CASE OF RUSSIA

- The potential instability of non-democratic countries makes them more susceptible to black swan events.
- One of the most recent example being Russia where direct investments in stocks/bonds of companies in Russia or in companies located elsewhere but with significant economic ties to Russia have been a very painful experience for investors.
- Russia is a country classified as authoritarian since 2011.



DEMOCRACIES AND WARS IN THE 20TH CENTURY ACCORDING TO... CHATGPT



YV.

number of wars in the 20th century

It is difficult to give an exact number of wars that occurred in the 20th century, as there is some debate over what constitutes a "war." However, some estimates suggest that there were around 180 armed conflicts that took place during the 20th century. This includes both major international wars and smaller, less well-known conflicts.

The number of wars also depend on how they are defined or categorized. Some sources might include civil war and other internal conflicts, while others might only consider conflicts between nation-states to be "wars."

However, it is important to highlight again that the number may vary depending on how conflicts are defined and categorized, giving a exact number is hard.

- yv how many wars opposed 2 independant democratic countries during the 20th century?
- There were very few instances of two independent, democratic countries engaging in war with each other during the 20th century.

One notable example is the War of the Pacific (1879-1883) fought between Chile, Bolivia and Peru. Chile was considered a democratic country during this time and all the three countries were independent

Another notable example was the the Football War (1969) between Honduras and El Salvador, which was a 100 hour-long conflict, the cause of the war were not just the Football but also caused by disputes over land, economic issues and immigration. Both countries were democratic but not fully consolidated democracies.

Those are the main examples that comes to mind when it comes to fully independent democratic countries fighting each other, however this is a very rare ocurrence in history.



WEAR YOUR CORRELATION GLASSES !!!

Yale school of management

Chief Executive Leadership Institute

Over 1,000 Companies Have Curtailed Operations in Russia—But Some Remain

\$240 billion: The cost of abandoning Russia for global corporations

by Ansh Pandey — October 9, 2022 in Europe, Geopolitics Reading Time: 4 mins read



Source: Yale University, as of Nov 28th, 2022

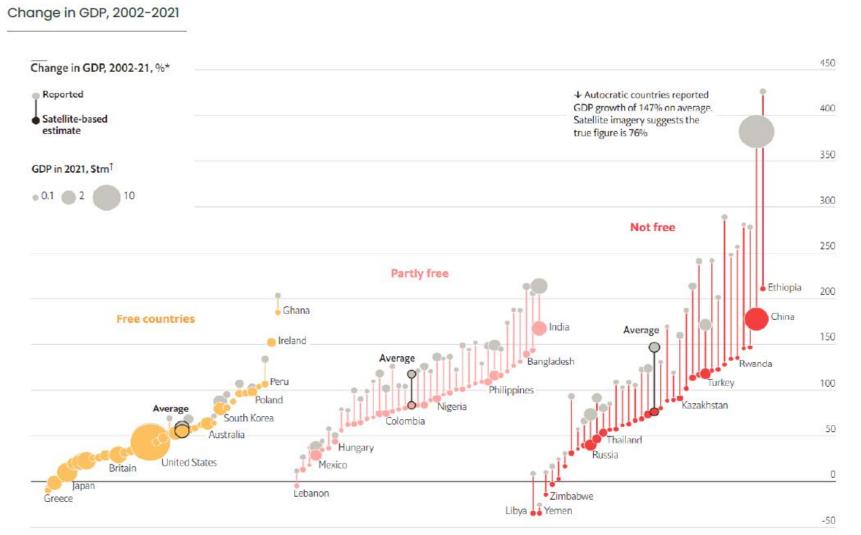


Source: https://tfiglobalnews.com/



We should not trust the dictators' GDP growth estimates (L.R. Martinez, 2022)

- GDP growth reported by autocracies are **inflated by up to 35%** per annum on average.
- In the long run, the reported GDP growth numbers nearly doubled the autocracies' actual economic growth.



Source: The Economist, 1-7 October 2022, p.77; "How much should we trust the dictators' GDP growth estimates?", L.R. Martinez, 2022; Freedom House; World Bank. *In 2021 USD at market exchange rates, assuming reported 1992 GDP figures are accurate. +Countries with over 5 million people, freedom status in 2021. Introduction to TOBAM and Anti-Benchmark

2. TOBAM Product Offering

• 2023: LBRTY®

- Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction







TOBAM USES 7 DIFFERENT DATASETS. EXAMPLE OF DATASET: THE V-DEM PROJECT

- Founded in 2011, Varieties of Democracy (V-Dem) is a unique approach to conceptualizing and measuring democracy. It
 provides a multidimensional and disaggregated dataset dating back to before 1789 that reflects the complexity of the
 concept of democracy as a system of rule that goes beyond the simple presence of elections.
- The V-Dem project distinguishes between five high-level principles of democracy: electoral, liberal, participatory, deliberative, and egalitarian, and collects data to measure these principles.
- The dataset is governed by Principal Investigators (the highest decision making body), a Steering Committee (body for the overall guidance and decision making connected to the various V-Dem programs and projects) and a large number of Project Managers (they identify reliable and relevant data sources, develop surveys and assure cross-country equivalence for the indicators) that are all Professors from institutions with an excellent academic reputation mainly in the Nordics, USA, and some also from other European Countries. Moreover, the V-Dem institute relies on a wide set of Regional Managers who are Professors at Universities in the respective geographic regions for which data is collected (e.g., Africa, Asia etc.). Overall, the headcounts are 5 Principal Investigators, 18 Personnel at V-Dem Institute, 22 Project Managers, 33 Regional Managers, 134 Country Coordinators and 3700 Country Experts.
- The Host Institution is the University of Gothenburg. The University of Notre Dame played an instrumental part in building and establishing V-Dem
- Funders of the data collection and research infrastructure are:
- We deem the V-Dem institute as a high-quality academic source.
- More information can be found here:
 <u>https://www.v-dem.net/about/v-dem-project/</u>



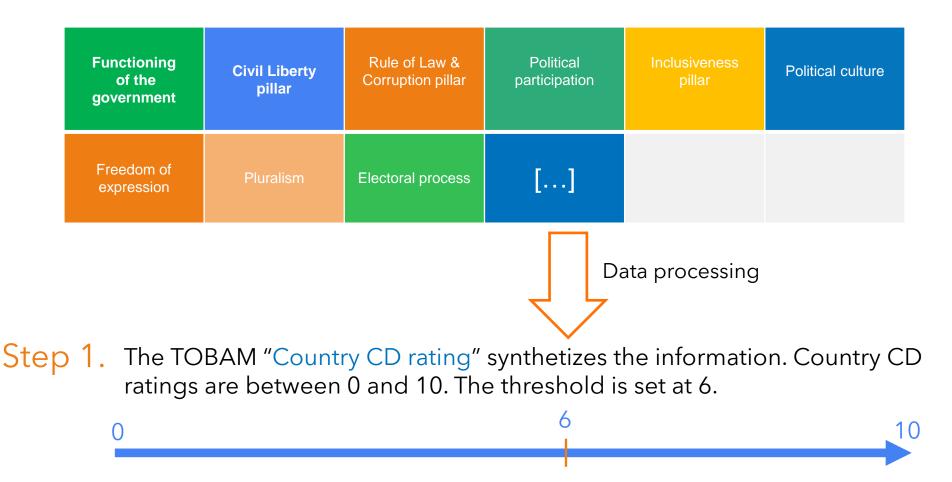


INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION

Measuring Countries Civil Liberty and The State of Democracy

There are plenty of data sources, reliable, independent, neutral. A good example of that is VDEM (see illustration previous slide).

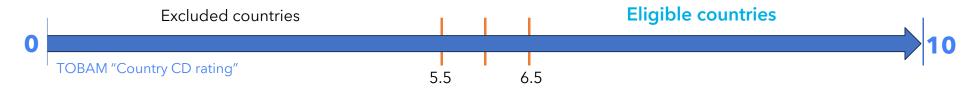
Datasets include typical pillars:



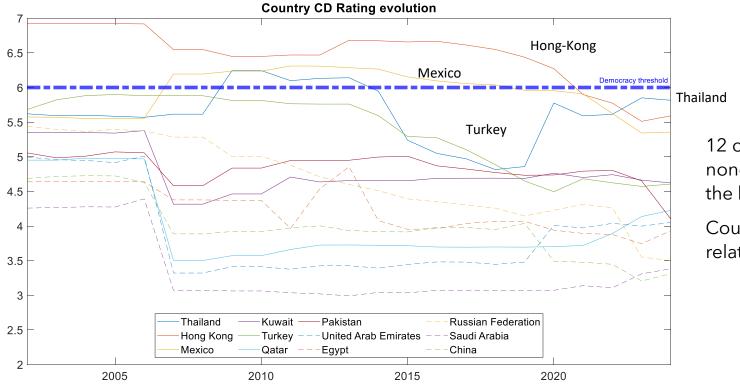


INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION

Step 2. Define Eligible countries:



The CD Governance Committee comprising external experts decides, based on granular information, whether countries are improving or not.



12 countries, classified as nondemocratic, are part of the benchmark as of Jun-24.

Country CD ratings are relatively stable over time.

INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION



Step 3. Additional exclusion lists (tobacco,...). The stocks of this Benchmark constitute the Investment Universe

Compute Whitelisted Benchmark: Mkt-Cap weighted portfolio of Investment Universe

Step 4. Wearing the "correlation glasses": Estimate the Authoritarian Exposure of each stock of the investment universe, homogeneous to a (partial) volatility

- Capture each company's overall economic exposure to authoritarian countries de-biased for market and sectors effects.
- Define the authoritarian exposure (AE) of a company as the sum of its exposure to each authoritarian country.

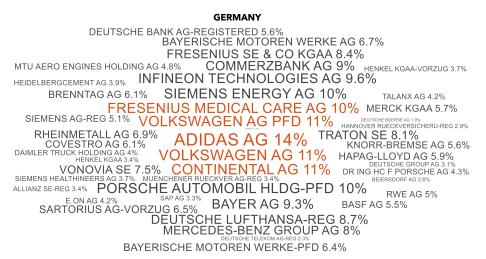


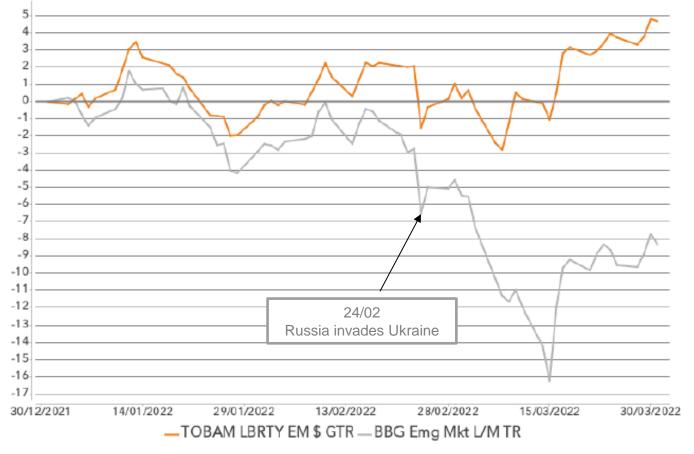
Illustration as of June 24

Step 5. <u>Construct LBRTY Portfolio : Minimization of overall authoritarian exposure subject to a</u> <u>defined long term tracking error</u>



THE AUTOCRACY RISK CAN BE EFFECTIVELY MITIGATED

TOBAM LBRTY EM PERFORMANCE IN Q1 2022: IMPACT OF THE RUSSIAN CRISIS

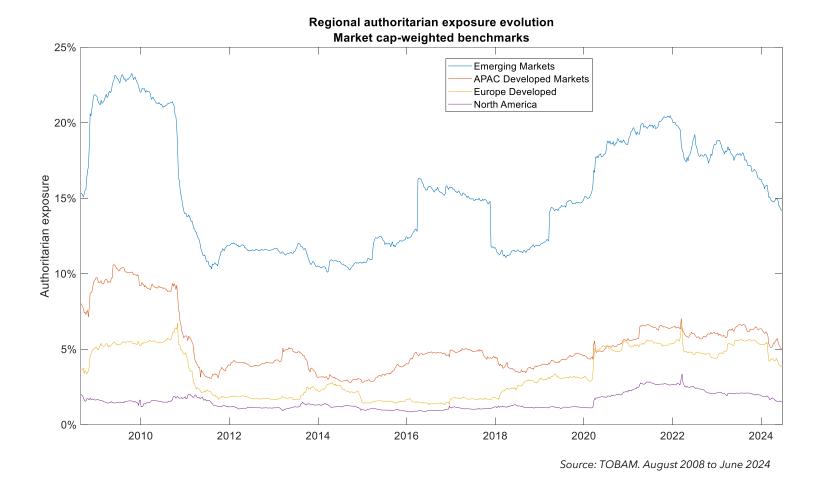


TOBAM LBRTY EM \$ GTR				
Return:	4.70%			
Hist volatility:	15.37%			
BBG Emg Mkt L/M T	R			
Return:	-8.32%			
Hist volatility:	21.92%			
Excess Return:	13.02%			

Source Bloomberg and TOBAM, from 31/12/2021 to 31/03/2022. Returns reflect back tested data from Aug 29, 2008, to Jul 03, 2023, plus live data for the TOBAM LBRTY Emerging Markets Equity Index from Jul 03, 2023, to date. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 03, 2023. The back tests are gross of tax and exclude costs of transaction and fee assumptions. 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 is in USD.



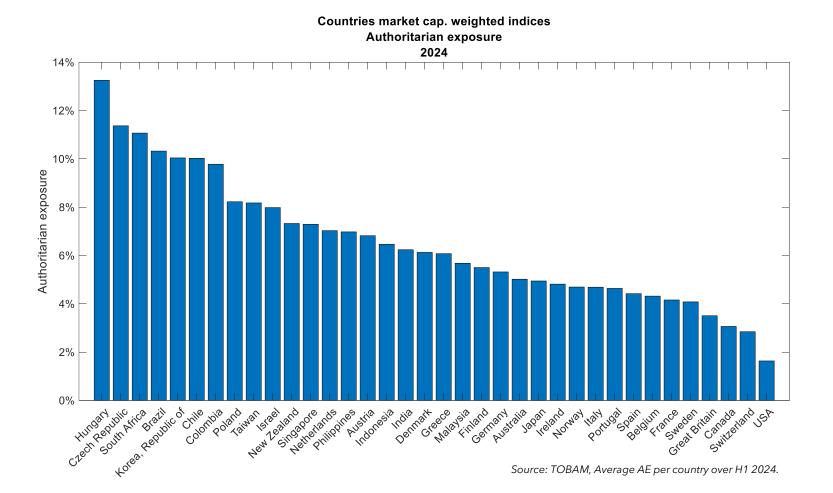
AUTHORITARIAN EXPOSURE BY **REGION**



Emerging markets have recently been three to seven times more exposed to authoritarian countries compared to their North-American / European counterparts

ELIGIBLE **COUNTRY** AVERAGE AUTHORITARIAN EXPOSURE AVERAGE H1-24

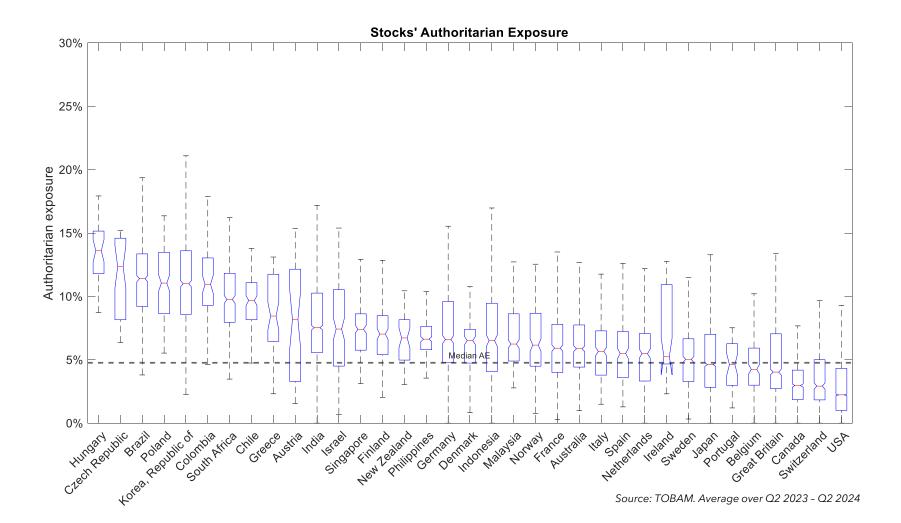




At the country level, democratic benchmarks exhibit a large spectrum of exposures to authoritarian countries, with the Hungarian and Brazilian benchmarks for example being <u>3 to 5 times more</u> <u>exposed</u> to authoritarian countries compared to benchmarks of USA, Canada and Switzerland.

ELIGIBLE **COMPANIES**' AUTHORITARIAN EXPOSURES BY COUNTRY

Within a given country, companies exhibit a large spectrum of authoritarian exposures.





AUTHORITARIAN EXPOSURE BY STOCKS USA, GERMANY, NORDIC COUNTRIES AND SWITZERLAND

USA TRADEWEB MARKETS INC-CLASS A 6.4% FOLUTABLE RESOURCES INC 6 1% LIBERTY BROADBAND C-W/I 6.7% GS ACQUISITION HOLDINGS- A 8.1% ST DISCOVERY INC_15.4% ERACTIVE BROKERS GRO.CLA.5.4% FIRST CITIZENS BCSHS -CLA.7.5% CHARTER COMMUNICATIONS INC 5.81 INTEL CORP 6.6% CARNIVAL CORP 10% MERCAN ADDULEREE INC 9% ROKU INC 11% ALBEMARLE CORP 8.7% SNOWFLAKE INC-CLASS A 8.3% RIVIAN AUTOMOTIVE INC-A 6.8% XP INC - CLASS A 13% SUPER MICRO COMPUTER INC 7% MARKETAXESS HOLDINGS INC 8.5% CAESARS ENTERTAINMENT INC 6.8% ID DOUBLACK AS 53% RESMED INC 5.8% LAS VEGAS SANDS CORP 13% EXPEDIA GROUP INC 7.1% FIRST SOLAR INC 8.2% A THERAPEUTICS INC 6.5% DELPHI AUTOMOTIVE PLC 7.8% COUPANG INC 7.4% AES CORP.6.4% V000 DINGS C 23% BOOKING HOLDINGS INC 5.3% BILL.COM HOLDINGS INC 5.5% MATCH GROUP INC 15.55 OUALCOMMING 5.7% YAL CARIBBEAN CRUISES OKTA INC 5.8% 70 TRADE DESK INC/THE -CLASS A 7.8% UNITY SOFTWARE INC 14% HUBSPOT INC 7.7% SAMSARA INC-CLA 7% ESTEE LAUDER COMPANIES-CLA 6.9% KIA 0009-27% VIATRIS INC 6,7% TRIS INC 6.7% ALNYLAM PHARMACEUTICALS INC 13% UIPATH INC - CLASS A 6.5% EXACT SCIENCES CORP 9.4% INSULET CORP 7.5% GITLAB INC-CL A 9.4% OBALICLASS B 5.3% BALL CORP 5.8% DRAFTKINGS INC 11% APPLOVIN CORP-CLASS A 6.6% SALESFORCE.COM INC 6.8% CROWN HOLDINGS INC 6.6% UBER TECHNOLOGIES INC 10% CITOTAT ADDUMENT AND MADE TO A CONDUCTOR CORP 7.1% GENERAL MOTORS CO 6.4% ELERTY BROADBAND-A.6.5% INTL-ROADBAND-A.6.5% WESTROADBAND-A.6.5% WESTROCK CO-WHEN ISSUED 6.6%

Germany

DEUTSCHE BANK AG-REGISTERED 5.6% **BAYERISCHE MOTOREN WERKE AG 6.7%** FRESENIUS SE & CO KGAA 8.4% COMMERZBANK AG 9% HENKEL KGAA-VORZUG 3.7% MTU AERO ENGINES HOLDING AG 4.8% **INFINEON TECHNOLOGIES AG 9.6%** HEIDELBERGCEMENT AG 3.9% SIEMENS ENERGY AG 10% BRENNTAG AG 6.1% TALANX AG 4 2% FRESENIUS MEDICAL CARE AG 10% MERCK KGAA 5.7% SIEMENS AG-REG 5.1% VOLKSWAGEN AG PFD 11% DEUTSCHE BOERBE AG 19% HANNOVER RUECKVERSICHERU-REG 2.9% **RHEINMETALL AG 6.9%** TRATON SE 8.1% ADIDAS AG 14% COVESTRO AG 6.1% **KNORR-BREMSE AG 5.6%** DAIMLER TRUCK HOLDING AG 4% VOLKSWAGEN AG 11% HAPAG-LLOYD AG 5.9% HENKEL KGAA 3.4% DEUTSCHE GROUP AG 3 1% VONOVIA SE 7.5% CONTINENTAL AG 11% DR ING HC F PORSCHE AG 4.3% SIEMENS HEALTHINEERS AG 3.7% MUENCHENER RUECKVER AG-REG 3.4% BEIERSDORF AG 2.6% ALLIANZ SE-REG 3.4% PORSCHE AUTOMOBIL HLDG-PFD 10% RWE AG 5% SARTORIUS AG-VORZUG 6.5% BAYER AG 9.3% **BASF AG 5.5%** DEUTSCHE LUFTHANSA-REG 8.7% MERCEDES-BENZ GROUP AG 8% **BAYERISCHE MOTOREN WERKE-PFD 6.4%**

Nordic countries

ORKLA ASA 3.2% INVESTMENT AB LATOUR-B SHS 3% SKANDINAVISKA ENSKILDA BAN-C 4.3% A P MOLLER - MAERSK A/S - A 4.6% INDUSTRIVARDEN AB-A SHS 3% SVENSKA CELLULOSA AB-B SHS 5.8% SAGAX AB-D 1.8% NORDEA BANK ABP_1 2.4% SWEDISH ORPHAN BIOVITRUM AB 3.5% TRELLEBORG AB-B SHS 6.1% SKANDINAVISKA ENSKILDA BAN-A 3.4% KONGSBERG GRUPPEN ASA 5.3% SKF AB-B SHARES 6.4% INDUSTRIVARDEN AB-C SHS 3% NOKIA OYJ 7.1% VOLVO AB-B SHS 3.7% ALFA LAVAL AB 5.5% HOLMEN AB-B SHARES 7.2% DANSKE BANK A/S 3.6% NESTE OIL OYJ 4.8% STORA ENSO OYJ-R SHS 8.4% VOLVO AB-A SHS 4.1% DSV PANALPINA A/S 4% HEXAGON AB-B SHS 2% EPIROC AB-B 5% SALMAR ASA 8.8% EPIROC AB-A 5.8% INVESTOR AB-A SHS 1.8% TELIA CO AB 4.7% METSO CORPORATION 11% NOVONESIS (NOVOZYMES) B 4.1% ERICSSON LM-B SHS 5.8% FORTUM OYJ 13% COLOPLAST-B 5.8% SAGAX AB-B 4.5% COLOPLAS I-B 5.8% TRYGYEST. INDUITABLE A2.5% BOLIDEN AB 9.3% GENMAB A/S 6% ELISA OY J 3.8% TELENOR ASA 6.2% SWEDBANK AB-A SHARES 2.2% COT AB 6.4% VAR ENERGIA VAR ENERGIASA 3.7% SANDVIK AB 5.6% KONE OYJ-B 8.5% EQT AB 6.4% Novo Nordisk A/S-B 3% LUNDBERGS AB-B SHS 3% AKER BP ASA 4.1% KER BP ASA 4.1% KESKO OYJ-B SHS 8.2% NORSK HYDRO ASA 5.3% EBOLAG-B 3.2% SVENSKA HANDELSBANKEN-B SHS 4% A P MOLLER - MAERSK A/S - B 5% VOLVO CAR AB-B 7.1% DNB BANK ASA 3.7% ESSITY AKTIEBOLAG-B 3.2% YARA INTERNATIONAL ASA 5.2% ATLAS COPCO AB-B SHS 3.7% MOWI ASA 7.1% YA CARLSBERG AS-B 3.4% SAMPO OYJ-A SHS 2.0 NIBE INDUSTRIER AB-B SHS 3.1% VESTAS WIND SYSTEMS A/S 6.3% ATLAS COPCO AB-B SHS 3.7% HS 2.8% UPM-KYMMENE OYJ 4% LIFCO AB-B SHS 3.6% ATLAS COPCO AB-A SHS 3.9% HENNES & MAURITZ AB-B SHS 6.1% GJENSIDIGE FORSIKRING ASA 4.9% SVENSKA HANDELSBANKEN-A SHS 4.1%

Switzerland

SCHINDLER HOLDING AG-REG 2.4%

LONZA GROUP AG-REG 2.9% SIKA AG-REG 2.6% SWISS RE AG 3.8% SWISSCOM AG-REG 2.6% VAT GROUP AG 4.7% NOVARTIS AG-REG 1.3% ABB LTD-REG 2.3% GEBERIT AG-REG 4.9% HOLCIM LTD 2.4%

ALCON INC_1 2.8% JULIUS BAER GROUP LTD 5.7% CIE FINANCIERE RICHEMO-A REG 7.6% SWATCH GROUP AG/THE-BR 10% SWATCH GROUP AG/THE-REG 9.6%

LOGITECH INTERNATIONAL-REG 5.4% SONOVA HOLDING AG-REG 5.2% SGS SA-REG 2.8% ZURICH INSURANCE GROUP AG 1.7% ROCH HOLDING AG-REG 1.7% ROCH HOLDING AG-REG 1.7% ROCH HOLDING AG-REG 1.7% UBS GROUP AG-REG 3%

> PARTNERS GROUP HOLDING AG 2.5% SCHINDLER HOLDING-PART CERT 2.3%

1 Introduction to TOBAM and Anti-Benchmark

2. TOBAM Product Offering

• 2023: LBRTY®

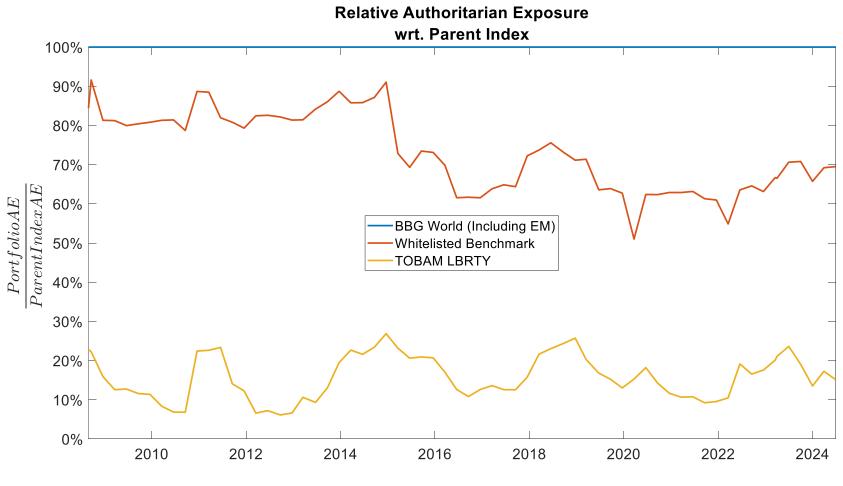
- Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- Empirical results: World (Including EM)

3. Conclusion





PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE WORLD INCL. EM



Source: TOBAM. August 2008 to June 2024

Within a given country companies exhibit a large spectrum of authoritarian exposures allowing TOBAM LBRTY to exhibit an authoritarian exposure 70 to 90% lower compared to their parent index.



BACKTEST SUMMARY WORLD INCLUDING EM

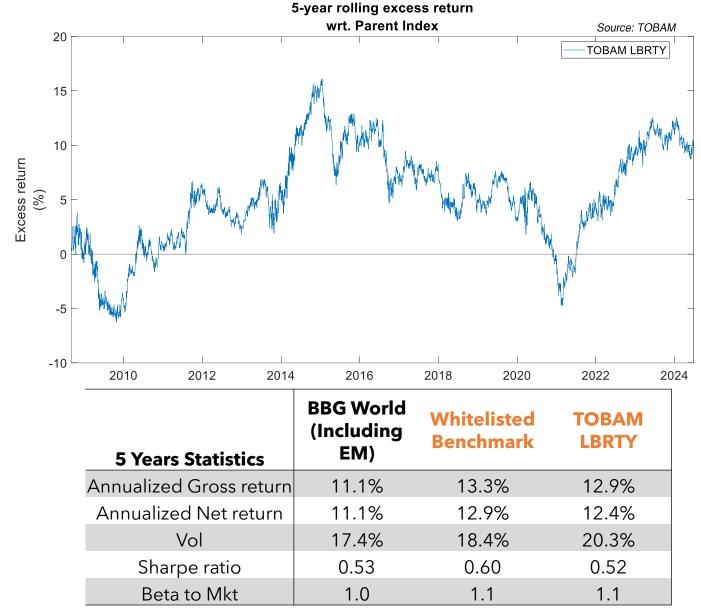
Statistics	BBG World (Including EM)	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	8.2%	9.3%	9.6%
Annualized Net return	8.2%	8.8%	9.1%
Vol	17.5%	17.8%	19.0%
Sharpe Ratio	0.41	0.44	0.43
Beta to Mkt	1.0	1.0	1.0
Average Number of stocks	2739	1685	260
Average Eff. Number of stocks	377.9	268.0	143.6
Authoritarian Exposure (H1 2024)	4.0%	2.7%	0.6%
Relative Authoritarian Exposure (H1 2024)	100%	68%	15%
TE(Parent index)	0.0%	2.0%	5.4%
TE(Whitelisted index)	2.0%	0.0%	4.6%

The period covered is from August 2008 to June 2024. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. Back tested 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. The net performance, are computed assuming a hypothetical fee of 45bps . 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 reference index specific local currency.



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5-YEAR ROLLING EXCESS RETURNS WORLD INCLUDING EM



The period covered in the table is from March 2019 to June 2024. The graph shrinks the 5-year window near the start of the period to include only existing elements. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency



AQR AND FAMA-FRENCH FACTOR EXPOSURE WORLD INCL. EM

 Traditional AQR and Fama French factors explain poorly TOBAM LBRTY's excess returns

AQR XR regression	Whitelisted Benchmark	TOBAM LBRTY	Fama-French XR regression	Whitelisted Benchmark	ТОВАМ
Market	1.7%***	2.5%***	Market	0.2%	0.19
SMB	-0.7%	-2.8%	SMB	-7.8%***	-14.0%
HML	-7.5%***	-1.9%*	HML	-6.9%***	-2.19
UMD	-0.7%	-1.1%	RMW	4.7%***	8.2%*
QMJ	6.2%***	10.9%***	СМА	3.1%**	5.5%
BAB	-1%	-1.6%	WML	-0.9%**	-0.7%
Alpha	0.6%	0.7%	Alpha	0.6%	0.79
R²	21%	7%	R ²	26%	14%

Factors are on AQR Global universe. Size (SMB), Value (HML), Momentum (UMD), Quality (QMJ) and Betting against Beta (BAB). *indicates that the estimated coefficient is different from zero with a probability of 90%, ** with a probability of 95% and *** with a probability of 99%. Factors are on Developed universe. Size (SMB), Value (HML), Quality(RMW&CMA), Momentum (WML)

*indicates that the estimated coefficient is different from zero with a probability of 90%, ** with a probability of 95% and *** with a probability of 99%.

The period covered is from September 2008 to June 2024. Source AQR; Kenneth website and TOBAM. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency



TOBAM LBRTY TRACKING ERROR DECOMPOSITION WORLD INCLUDING EM

Majority of the TE vs. parent index and 44% of the TE vs. Whitelisted Benchmark is due to the reduction of exposure to authoritarian countries

World (Including EM) Nov 2009 - Jun 2024	Tracking error attribution vs. Parent Index			attribution vs. Benchmark
Risk factor	TCR	PCR	TCR	PCR
Market	0.4%	6.6%	0.3%	6.4%
Authoritarian countries	0.4%	6.8 %	0.0%	0.0%
Indirect exposure	2.9%	55.0%	2.0%	43.9%
Sector	0.5%	9.0%	0.7%	14.5%
Residuals	1.2%	22.5%	1.6%	35.2%
Total	5.4%	100.0%	4.6%	100.0%

TCR = Total contribution to tracking error

Source: TOBAM

PCR = Percentage contributions to tracking error

Introduction to TOBAM and Anti-Benchmark

2. TOBAM Product Offering

• 2023: LBRTY®

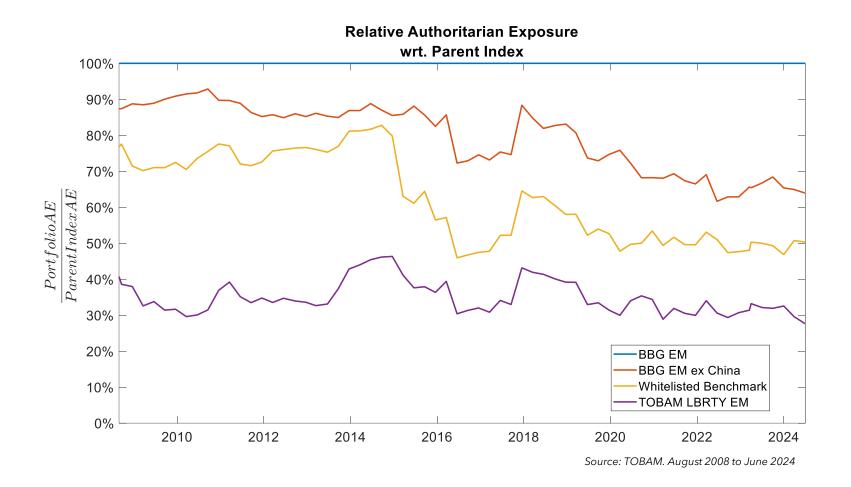
- Investment Philosophy The case for Civil and Democratic Rights
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- ✓ Empirical results: EM

3. Conclusion





PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE



Within a given country companies exhibit a large spectrum of authoritarian exposures allowing TOBAM LBRTY portfolio to exhibit an authoritarian exposure 50 to 70% lower compared to its parent index.



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BACKTEST SUMMARY

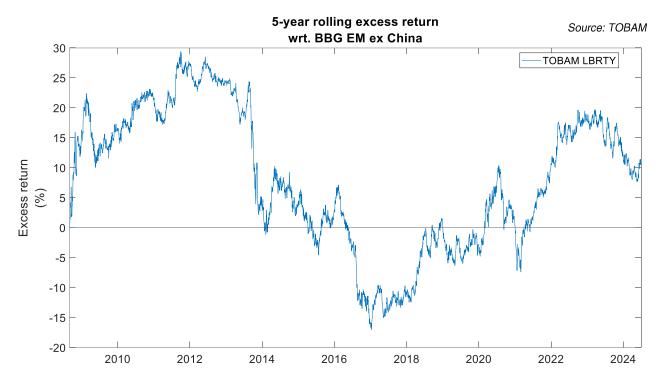
Statistics	BBG EM	BBG EM ex China	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	4.1%	4.8%	5.2%	6.9 %
Annualized Net return	4.1%	4.8%	4.8%	6.5%
Vol	19.7%	19.7%	19.0%	18.2%
Sharpe Ratio	0.16	0.19	0.20	0.30
Beta to Mkt	1.0	1.0	0.9	0.9
Average Number of stocks	1109	831	450	132
Average Eff. Number of stocks	157.4	132.9	111.3	60.9
Authoritarian Exposure (H1 2024)	15.1%	9.8%	7.4%	4.5%
Relative Authoritarian Exposure (H1 2024)	100%	65%	49%	30%
TE(Parent index)	0.0%	5.3%	6.7%	8.7%
TE(Whitelisted index)	6.7%	4.5%	0.0%	6.2%
TE(BBG EM ex China index)	5.3%	0.0%	4.5%	7.0%
				· · · · · · · · · · · · · · · · · · ·

The period covered is from August 2008 to June 2024. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. Back tested 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. The net performance, are computed assuming a hypothetical fee of 45bps . 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 reference index specific local currency.



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5-YEAR ROLLING EXCESS RETURNS VS BBG EM EX CHINA - EM

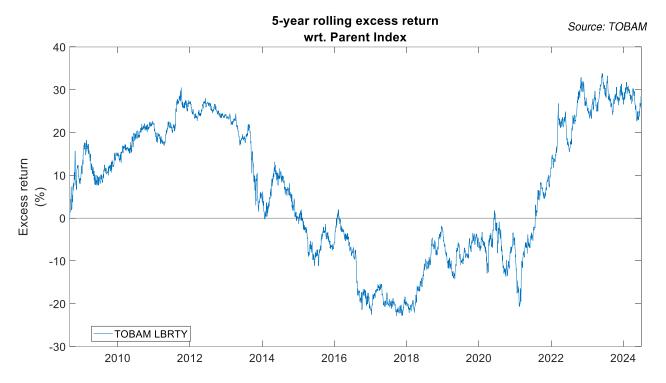


5 Years Statistics	BBG EM	BBG EM ex China	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	3.8%	7.4%	7.5%	10.1%
Annualized Net return	3.8%	7.4%	7.0%	9.6%
Vol	16.6%	16.6%	17.1%	15.9%
Sharpe ratio	0.11	0.33	0.30	0.49
Beta to Mkt	1.0	0.9	0.9	0.8

The period covered in the table is from March 2019 to June 2024. The graph shrinks the 5-year window near the start of the period to include only existing elements. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency



5-YEAR ROLLING EXCESS RETURNS VS PARENT INDEX -EM



5 Years Statistics	BBG EM	BBG EM ex China	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	3.8%	7.4%	7.5%	10.1%
Annualized Net return	3.8%	7.4%	7.0%	9.6%
Vol	16.6%	16.6%	17.1%	15.9%
Sharpe ratio	0.11	0.33	0.30	0.49
Beta to Mkt	1.0	0.9	0.9	0.8

The period covered in the table is from March 2019 to June 2024. The graph shrinks the 5-year window near the start of the period to include only existing elements. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency



AQR AND FAMA-FRENCH FACTOR EXPOSURE

 Traditional AQR and Fama French factors explain poorly TOBAM LBRTY's excess returns

AQR XR regression	Whitelisted Benchmark	TOBAM LBRTY	-	Fama-French XR regression	Whitelisted Benchmark	
Market	-2.2%*	-9.9%***		Market	3.6%	
SMB	5.9%	9.9%**		SMB	21.8%**	
HML	16.6%***	17.8%***		HML	28.4%***	
UMD	-3.4%	-3.9%		RMW	25.3%**	
QMJ	11.9%**	15.5%***		СМА	26.8%**	
BAB	7%**	5.5%		WML	6.5%	
Alpha	-0.7%	1.3%		Alpha	-3%*	
R ²	8%	19%		R ²	21%	

Factors are on AQR Pacific universe. Size (SMB), Value (HML), Momentum (UMD), Quality (QMJ) and Betting against Beta (BAB). *indicates that the estimated coefficient is different from zero with a probability of 90%, ** with a probability of 95% and *** with a probability of 99%. Factors are on Emerging market universe. Size (SMB), Value (HML), Quality(RMW&CMA), Momentum (WML)

*indicates that the estimated coefficient is different from zero with a probability of 90%, ** with a probability of 95% and *** with a probability of 99%.

The period covered is from September 2008 to June 2024. Source AQR; Kenneth website and TOBAM. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency



TOBAM LBRTY TRACKING ERROR DECOMPOSITION

The majority of the TE vs. parent index and about 25% of the TE vs. Whitelisted Benchmark is due to the reduction of exposure to authoritarian countries

Emerging markets Nov 2009 - Jun 2024	Tracking error attribution vs. Parent Index		•	attribution vs. Benchmark
Risk factor	TCR	PCR	TCR	PCR
Market	1.6%	17.9%	0.7%	10.8%
Authoritarian countries	1.3%	14.8%	0.0%	0.0%
Indirect exposure	3.6%	40.7%	1.5%	23.8%
Sector	0.3%	3.5%	0.6%	9.6%
Residuals	2.0%	23.2%	3.5%	55.8%
Total	8.7%	100.0%	6.2%	100.0%

TCR = Total contribution to tracking error

Source: TOBAM

PCR = Percentage contributions to tracking error

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2. TOBAM Product Offering

• 2023: LBRTY®

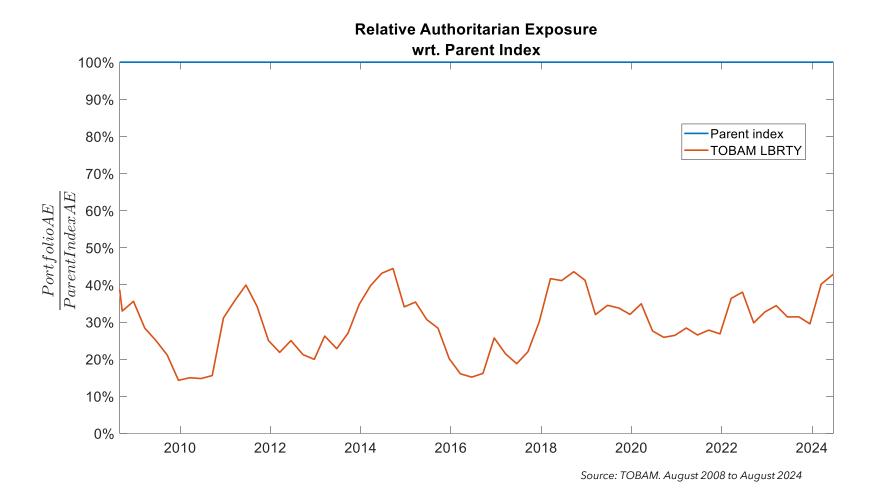
- Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- ✓ Empirical results: USA

3. Conclusion





PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE



Within a given country companies exhibit a large spectrum of authoritarian exposures allowing TOBAM LBRTY portfolio to exhibit an authoritarian exposure 60 to 80% lower compared to its parent index.



LBRTY® USA PORTFOLIO PERFORMANCE

LBRTY® USA strategy vs BBG USA

Aug 2008 to Aug 2024

	LBRTY US	BBG US L/MC TR
Gross Return (Aug '08 - Aug '24)	639.67 %	489.04 %
Annualized Gross Return	13.32 %	11.72 %
Volatility	19.54 %	20.61 %
Sharpe ratio	0.63	0.52
Tracking error	3.46 %	
Downside deviation	12.56 %	13.44 %
Information ratio	0.46	
Correlation to index	0.99	
Beta to index	0.94	



Source: TOBAM, Bloomberg LP, Aug 2008 to Aug 2024

The LBRTY[®] USA strategy:

- outperformed the BBG USA index by 1.6% annualized
- reduced volatility vs the index by app. 5%

The period covered is from August 2008 to August 2024. Source Bloomberg and TOBAM. Returns reflect back tested data from Aug 29, 2008, to date. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. The back tests are gross of tax and exclude costs of transaction and fee assumptions. 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 illustrating performance provided on this page are gross of management fees, sales charges and other commissions.



AQR FACTOR EXPOSURE

• All LBRTY strategies shared similar factor exposures profiles across universes

AQR Style analysis	TOBAM LBRTY ACWI	TOBAM LBRTY EM	TOBAM LBRTY USA
Market	2.5%***	-10.2%***	-1.5%***
SMB	-2.8%	10.5%**	5%***
HML	-1.9%*	17.9%***	-9.2%***
UMD	-1.1%	-4.3%	-1.2%**
QMJ	10.9%***	15.4%***	18.8%***
BAB	-1.6%	4.7%	0.6%
Alpha	0.7%	1.4%	0.4%
R ²	7%	19%	52%

Factors are on AQR World, Pacific and USA universe from left to right.

Size (SMB), Value (HML), Momentum (UMD), Quality (QMJ) and Betting against Beta (BAB). *indicates that the estimated coefficient is different from zero with a probability of 90%, ** with a probability of 95% and *** with a probability of 99%

The period covered is from August 2008 to June 2024. Source AQR; TOBAM. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. 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 reference index specific local currency

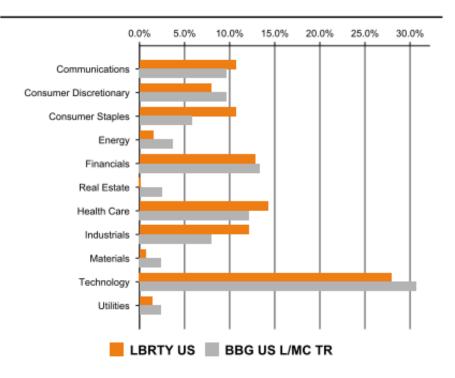


LBRTY® USA PORTFOLIO SECTOR ALLOCATION

- Sector allocation does not explain well TOBAM LBRTY's tracking error
- Almost 50% of the Tracking error vs Parent Index is due to the reduction of exposure to authoritarian countries

•

 Allocation by Sector - LBRTY[®] USA strategy vs parent index August 2024



LBRTY[®] USA: TE attribution vs. index

Emerging markets Nov 2009 - Aug 2024	Tracking error attributio vs. Parent Index			
Risk factor	TCR	PCR		
Market	0.5%	14.1%		
Indirect exposure	1.6% 46.2%			
Sector	0.4%	12.4%		
Residuals	0.9%	27.3%		
Total	3.5%	100.0%		

Source: TOBAM, Bloomberg LP

The period covered is from August 2008 to August 2024. Source Bloomberg and TOBAM. Returns reflect back tested data for the entire time provided. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched. Warning: Past performance is not an indicator or a guarantee of future performance. The value of your 63 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 reference index specific local currency

Introduction to TOBAM and Anti-Benchmark

2. TOBAM Product Offering

• 2023: LBRTY®

- Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- Empirical results
- ✓ Products

3. Conclusion



PRODUCTS



On 03 July 2023, the TOBAM LBRTY **indices** were launched:

- All World (Bloomberg ticker: LBRTYT)
- All World ex USA (Bloomberg ticker: LBRTYXUT)
- Emerging Markets (Bloomberg ticker: LBRTEMT)

On 31 July 2024, the TOBAM LBRTY US index was launched (Bloomberg ticker: LBRTYUST)

The tracking error constraint defined vs. whitelisted index is set at:

- 10% of the parent index volatility for the **index** TOBAM LBRTY US, All World and All World ex USA
- 20% of the parent index volatility for the **fund** TOBAM LBRTY All World and All World ex USA
- 30% of the parent index volatility for TOBAM LBRTY EM

The capacity* of the TOBAM LBRTY as of 28 February 2023 is at:

- 17.2%/17.3% for the TOBAM LBRTY All World index/fund respectively
- 16.1%/15.6% for the TOBAM LBRTY All World ex USA index/fund respectively
- 7.3% for the TOBAM LBRTY EM

*Following the 40-act SEC guidance, the capacity of a portfolio is defined as the maximum size such that a proportion 85% of it can be purchased - or sold- in less than 5 days, at a maximum 20% participation rate. The capacity is expressed as a percentage of the Parent index capacity



LBRTY EQUITY - PERFORMANCE SUMMARY EM, ACWI, ACWI EX US, US

As of August 30 th , 2024	Ľ		Perform	ance USD		Average TE
		Live I	Data	Annualized		vs. Benchmark
		YTD	1yr	Зуr	5yr	
TOBAM LBRTY EM Equity		12.6%	23.9%	7.4%	13.5%	7% - 9%
Benchmark		8.2%	13.0%	-3.3%	5.3%	
	Delta	4.4%	10.9 %	10.6 %	8.1%	
TOBAM LBRTY ACWI Equity		19.3%	27.5%	9.7%	15.3%	3% - 4%
Benchmark		16.1%	23.6%	5.9%	12.4%	
	Delta	3.2%	3.9%	3.9%	2.9%	
TOBAM LBRTY ACWI ex-US Equity		12.3%	21.7%	5.6%	10.4%	3% - 5%
Benchmark		11.2%	17.9%	2.2%	8.0%	
	Delta	1.1%	3.8%	3.4%	2.4%	
TOBAM LBRTY US Equity		20.3%	28.3%	11.1%	17.2%	1% - 3%
Benchmark		19.5%	27.1%	9.4%	15.9%	
	Delta	0.8%	1.1%	1.8 %	1.3%	

The period covered is from August 2019 to August 2024. Returns reflect back tested data from August 2019 to Jul 03, 2023, plus live data from Jul 03, 2023 to date (except for TOBAM LBRTY US Equity which shows only back tested data). Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 03, 2023. The back tests are gross of tax and exclude costs of transaction and fee assumptions. 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 for reinvested dividends.



TOBAM LBRTY ALL WORLD EQUITY PERFORMANCE

Monthly Returns(%)

Sources: TOBAM, Bloomberg. Indexes are unmanaged and do not incur management fees, costs and expenses. One cannot invest directly in an index.

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. Returns reflect back tested data from Aug 29, 2008 to Jul 03, 2023, plus live data for the TOBAM LBRTY All World Equity Index from Jul 03, 2023 to date.

Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 03, 2023. The back tests are gross of tax and exclude costs of transaction and fee assumptions.

														TD
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Index	Bench
2024	1.27	3.71	3.85	-3.13	4.97	2.86	1.62	2.92					19.30	16.06
2023	6.43	-3.09	3.47	2.56	-0.11	5.42	3.99	-2.41	-4.73	-3.07	9.71	5.46	24.98	22.24
2022	-4.83	-2.49	2.12	-7.90	0.55	-7.95	7.57	-4.37	-8.82	7.75	8.02	-3.80	-15.16	-18.24
2021	-1.69	2.29	3.88	5.49	1.75	1.52	3.13	2.85	-4.37	6.06	-1.48	4.53	26.12	18.50
2020	-0.19	-8.41	-13.17	10.74	4.93	3.10	4.83	6.34	-4.06	-2.91	11.56	3.81	14.36	17.10
2019	8.10	3.49	1.71	3.53	-5.24	6.57	0.81	-2.09	2.41	2.12	3.32	3.34	31.14	27.10
2018	4.18	-4.11	-0.94	0.54	0.41	-0.07	3.23	1.87	0.08	-7.39	1.80	-8.18	-9.05	-8.76
2017	1.84	3.16	0.94	1.66	2.83	0.13	2.58	-0.51	1.63	1.85	2.70	1.22	21.90	24.54
2016	-5.47	-0.28	7.11	0.90	0.94	-1.33	4.11	-0.04	0.58	-1.95	1.79	2.77	8.93	8.54
2015	-2.07	6.06	-1.27	1.67	0.39	-2.12	2.20	-6.31	-2.96	8.11	-0.08	-2.53	0.24	-1.67
2014	-3.09	4.77	0.32	1.41	1.66	2.16	-1.68	2.77	-2.56	0.90	1.86	-1.38	7.05	4.89
2013	5.32	0.31	2.41	2.58	0.10	-2.21	5.21	-2.66	4.39	4.33	1.52	2.34	25.89	23.16
2012	4.92	4.10	0.79	-1.24	-8.32	4.09	1.03	3.07	2.74	-0.65	1.53	1.87	14.05	17.16
2011	2.22	3.49	-0.48	3.60	-1.92	-1.06	-2.71	-5.93	-8.18	9.98	-2.26	-0.09	-4.47	-7.21
2010	-4.16	2.93	6.49	0.74	-8.56	-3.47	8.19	-2.79	8.62	3.92	-1.70	6.92	16.55	13.30

Statistics

	TOBAM LBRTY All World Equity Index	BBG World Lrg/Mid Cap TR
Return (Aug '08 - Aug '24)	350.30 %	263.70 %
Annualized return	9.86 %	8.40 %
Volatility	18.49 %	17.43 %
Sharpe ratio	0.47	0.42
Tracking error	3.56 %	
Downside deviation	12.05 %	11.44 %
Sortino ratio	0.73	0.64
Information ratio	0.41	
Correlation to index	0.98	
Beta to index	1.04	

TOBAM LBRTY ALL WORLD EX USA EQUITY PERFORMANCE



Sources: TOBAM, Bloomberg. Indexes are unmanaged and do not incur management fees, costs and expenses. One cannot invest directly in an index.

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. Returns reflect back tested data from Aug 29, 2008 to Jul 03, 2023, plus live data for the TOBAM LBRTY All World ex USA Equity Index from Jul 03, 2023 to date. Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 03, 2023. The back tests are gross of tax and exclude costs of transaction and fee assumptions.

Performance returns and/or charts illustrating performance provided on this page are gross of management fees, sales charges and other commissions,

Monthly Returns(%)

														TD
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Index	Bench
2024	-0.40	0.63	4.15	-3.12	3.63	-0.04	3.76	3.30					12.30	11.19
2023	8.52	-2.02	2.13	3.17	-2.54	4.57	4.07	-4.60	-3.22	-4.71	10.29	6.54	22.86	15.22
2022	-4.47	-2.15	0.65	-6.72	0.85	-10.05	5.71	-5.16	-8.21	4.19	10.63	-0.59	-16.06	-15.97
2021	-1.55	2.11	2.84	4.18	3.93	-0.71	1.34	1.49	-3.70	3.34	-3.19	5.50	16.17	8.45
2020	-2.23	-8.62	-15.31	6.68	4.28	4.21	4.23	4.75	-2.66	-2.48	13.87	4.84	8.52	12.45
2019	6.80	3.01	0.81	3.05	-4.04	5.29	-1.48	-2.59	3.31	3.35	1.58	3.65	24.59	21.95
2018	4.15	-4.90	-0.93	2.00	-1.89	-1.13	2.61	-1.82	-0.04	-8.00	0.55	-5.06	-14.14	-13.20
2017	2.60	0.94	2.37	2.29	4.09	0.08	3.29	-0.67	1.89	0.88	1.41	2.29	23.58	27.51
2016	-6.50	-0.23	6.96	3.00	-0.57	-3.18	4.63	0.04	1.37	-1.74	-1.55	3.33	4.93	5.12
2015	-0.21	5.82	-1.68	3.81	-1.16	-2.14	1.10	-6.87	-3.60	7.28	-1.48	-2.30	-2.29	-4.71
2014	-3.78	5.10	-0.27	1.91	1.57	1.63	-1.33	0.74	-4.05	-1.54	1.38	-3.38	-2.42	-3.03
2013	4.24	-1.29	0.86	3.91	-1.68	-3.74	5.60	-1.61	6.54	3.85	0.23	2.25	20.26	15.54
2012	5.35	5.17	-0.91	-1.64	-11.04	5.61	0.71	3.63	3.66	0.44	2.16	3.31	16.35	18.11
2011	2.17	3.53	-1.39	4.53	-2.40	-0.97	-1.79	-6.89	-9.89	9.41	-4.82	-0.87	-10.36	-13.63
2010	-4.77	0.47	6.98	-0.97	-10.85	-1.94	10.29	-2.77	9.30	3.79	-5.06	7.98	10.48	12.05
- C+-		-												

Statistics

	TOBAM LBRTY All World BBG World Ex-US L/M T ex USA Equity Index						
Return (Aug '08 - Aug '24)	155.53 %	113.81 %					
Annualized return	6.04 %	4.86 %					
Volatility	18.63 %	18.02 %					
Sharpe ratio	0.26	0.21					
Tracking error	4.31 %						
Downside deviation	11.93 %	11.66 %					
Sortino ratio	0.41	0.32					
Information ratio	0.27						
Correlation to index	0.97						
Beta to index	1.01						

TOBAM LBRTY EMERGING MARKETS EQUITY PERFORMANCE Monthly Returns(%)



Sources: TOBAM, Bloomberg. Indexes are unmanaged and do not incur management fees, costs and expenses. One cannot invest directly in an index.

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Performance details provided are in USD and include reinvested dividends Returns reflect back tested data from Aug 29, 2008 to Jul 03, 2023, plus live data for the TOBAM LBRTY Emerging Markets Equity Index from Jul 03, 2023 to date

Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 03, 2023. The back tests are gross of tax and exclude costs of transaction and fee assumptions.

													1	(TD
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Index	Bench
2024	-1.35	0.82	2.55	-2.44	1.08	5.83	3.20	2.51					12.59	8.21
2023	2.82	-2.68	2.66	2.12	2.27	3.20	5.58	-4.49	-2.39	-3.65	8.72	7.60	22.85	8.47
2022	-0.87	1.04	4.54	-7.20	0.70	-11.06	4.18	1.23	-6.81	0.52	9.11	-3.32	-9.32	-20.54
2021	-3.41	-1.46	4.15	3.11	4.72	-0.70	-0.20	4.40	-2.27	-1.61	0.07	2.58	9.31	0.21
2020	-3.04	-6.11	-20.99	12.34	4.52	6.97	9.76	0.96	-2.90	2.83	12.05	8.46	21.47	22.03
2019	4.16	-0.66	2.74	0.78	-3.57	3.61	-1.32	-3.31	4.28	3.73	-0.91	5.35	15.34	18.81
2018	4.93	-3.52	-1.26	1.24	-4.02	0.32	3.92	0.12	-1.59	-8.22	4.51	-0.15	-4.45	-12.01
2017	5.10	4.33	3.96	0.93	2.51	0.83	4.38	1.65	-2.05	2.59	0.55	5.03	33.90	35.95
2016	-4.27	-0.10	8.06	0.13	-0.99	0.85	4.44	-0.25	0.87	-0.54	-5.49	-0.75	1.30	11.61
2015	0.47	2.24	-3.07	3.80	-1.80	-2.16	-5.03	-3.86	-0.48	4.69	-4.29	-1.62	-11.06	-11.75
2014	-4.91	4.37	4.47	1.83	1.18	3.75	0.45	2.69	-7.34	-1.06	-0.68	-4.82	-0.93	-0.94
2013	0.81	-2.38	-0.70	-1.55	-4.86	-5.59	1.81	-1.35	4.19	5.03	-4.91	0.20	-9.50	-1.20
2012	9.48	4.69	-2.16	-1.01	-9.24	3.81	0.52	0.23	5.32	-1.07	0.91	5.53	16.94	20.36
2011	-5.88	0.68	4.29	4.20	-0.82	-1.66	-0.31	-3.26	-14.29	11.02	-5.15	-1.92	-14.26	-18.97
2010	-5.34	2.55	8.00	1.00	-7.52	0.52	9.21	-0.14	10.70	3.91	-2.59	7.22	28.95	19.91

Statistics

	TOBAM LBRTY Emerging Markets Equity Index	BBG Emg Mkt L/M TR
Return (Aug '08 - Aug '24)	218.84 %	91.29 %
Annualized return	7.51 %	4.14 %
Volatility	18.10 %	19.64 %
Sharpe ratio	0.35	0.15
Tracking error	8.70 %	
Downside deviation	11.63 %	12.56 %
Sortino ratio	0.55	0.24
Information ratio	0.39	
Correlation to index	0.90	
Beta to index	0.83	

TOBAM LBRTY USA EQUITY PERFORMANCE

Sources: TOBAM, Bloomberg. Indexes are unmanaged and do not incur management fees, costs and expenses. One cannot invest directly in an index.

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Performance details provided are in USD and include reinvested dividends Returns reflect back tested data from Aug 29, 2008 to Jul 31, 2024, plus live data for the LBRTY US from Jul 31, 2024 to date.

Back tested results are for information purposes only. They are intended to illustrate how the Strategy may have behaved had it been launched prior to Jul 31, 2024. The back tests are gross of tax and exclude costs of transaction and fee assumptions.

Simulated Monthly Gross Returns (%)

													Ŷ	D
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	LBRTY	Index
2024	2.38	5.55	3.40	-4.49	4.49	4.27	0.64	2.82					20.31	18.9
2023	5.15	-2.85	5.12	2.08	1.05	6.12	3.92	-1.28	-4.94	-2.43	8.86	5.58	28.53	26.9
2022	-5.89	-4.15	2.84	-8.11	0.21	-6.82	8.86	-4.17	-8.25	9.06	6.94	-5.44	-15.98	-19.7
2021	-2.27	2.66	4.69	5.27	1.08	3.29	4.29	3.28	-5.87	7.24	-0.13	4.80	31.35	26.4
2020	-0.09	-8.50	-11.37	10.51	6.47	1.96	3.86	7.55	-2.64	-3.11	9.90	3.65	16.66	21.0
2019	7.78	4.49	1.68	3.42	-6.16	6.29	2.21	-1.26	1.74	2.14	4.31	2.63	32.61	31.6
2018	4.52	-3.15	-2.09	0.25	3.41	0.67	3.86	3.85	0.19	-6.51	2.12	-8.74	-2.61	-4.6
2017	1.56	4.54	-0.06	1.16	2.33	-0.01	1.62	0.53	2.75	2.01	3.56	0.92	22.91	22.0
2016	-3.23	-0.01	6.99	-0.50	1.95	0.35	3.57	-0.19	-0.15	-2.67	4.17	1.80	12.27	11.5
2015	-1.87	5.75	-1.19	-0.40	1.93	-1.94	1.60	-6.13	-1.27	7.82	0.39	-2.35	1.61	1.2
2014	-3.96	5.12	0.97	0.60	1.57	1.32	-1.48	4.49	-1.00	3.42	2.83	-0.21	14.14	13.5
2013	5.34	2.08	3.70	1.63	1.65	-1.21	5.09	-2.60	3.50	3.75	2.83	2.28	31.56	32.5
2012	5.24	4.19	2.91	-0.49	-4.84	3.24	0.82	2.26	1.92	-2.43	1.74	-0.23	14.80	16.0
2011	1.65	3.17	1.80	4.13	0.17	-1.35	-2.66	-4.64	-5.28	9.75	0.01	0.99	7.07	1.9
2010	-2.36	2.61	4.71	1.40	-6.76	-3.92	5.66	-3.85	9.57	3.57	0.38	4.91	15.71	15.2
2009	-6.21	-7.87	8.00	7.81	4.88	0.90	7.04	2.33	3.84	-0.56	5.81	2.23	30.26	26.1
2008									-8.47	-15.18	-6.51	1.60	-26.25	-29.0

Simulated Summary Statistics

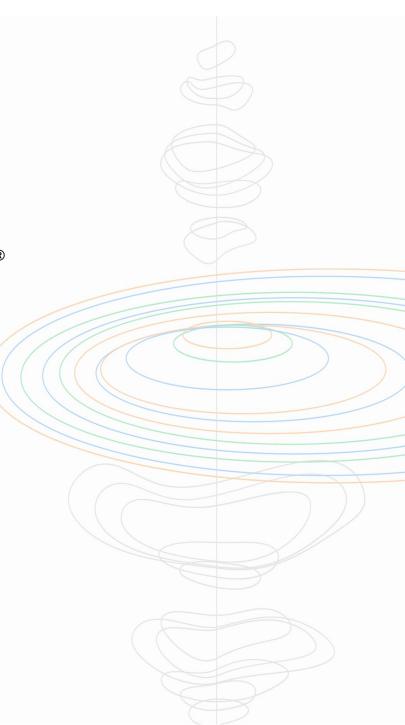
	LBRTY US	BBG US L/MC TR
Gross Return (Aug '08 - Aug '24)	639.67 %	489.04 %
Annualized Gross Return	13.32 %	11.72 %
Volatility	19.54 %	20.61 %
Sharpe ratio	0.63	0.52
Tracking error	3.46 %	
Downside deviation	12.56 %	13.44 %
Information ratio	0.46	
Correlation to index	0.99	
Beta to index	0.94	

1. Introduction to TOBAM and Anti-Benchmark 2. TOBAM Product Offering

- 2006: Maximum Diversification®
- 2017: CRYPTOBAM®
- 2023: LBRTY®







obam^{*}

CONCLUSION

Since its beginning:

- TOBAM's ONLY focus is the long-term risk reward of its clients
- We believe that side by side with diversification, Democracy, Respect of Human Rights and Civil Rights are key to innovations and economic growth
- Human Rights have always been at the core of TOBAM's values.



Reducing both direct and indirect Authoritarian Exposure

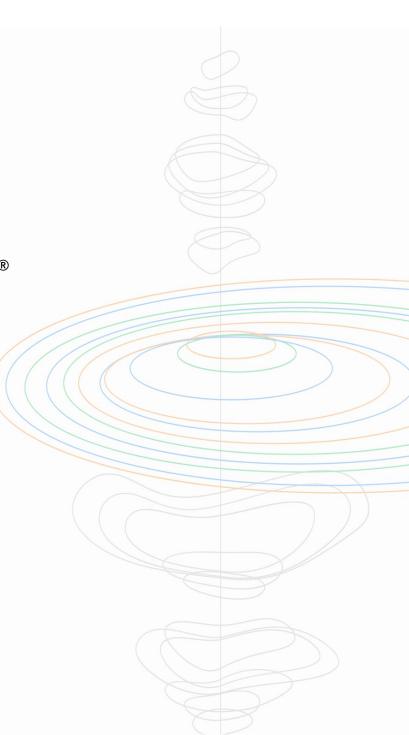
- enhances long term expected returns
- reduces market risk induced by geopolitical instability

1 Introduction to TOBAM and Anti-Benchmark

- 2. TOBAM Product Offering
 - 2006: Maximum Diversification®
 - 2017: CRYPTOBAM®
 - 2023: LBRTY®

3. Conclusion

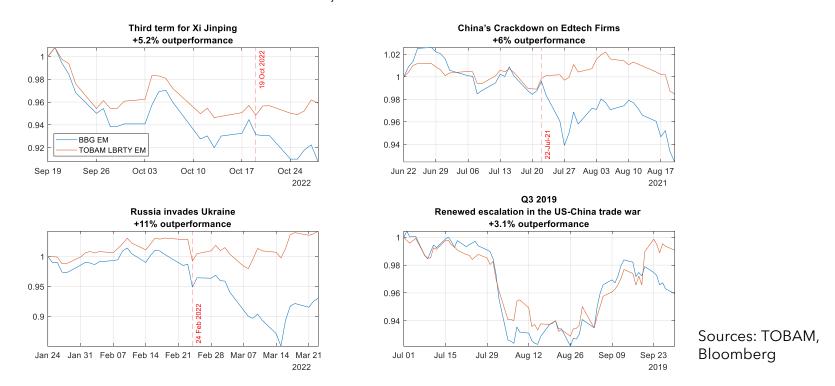






EM PERFORMANCE CASE STUDY: PORTFOLIO PERFORMANCE VS PARENT INDEX DURING GEOPOLITICAL EARTHQUAKES

- LBRTY is less exposed to autocratic regimes geopolitical crises .
- Relative performance of TOBAM LBRTY EM vs parent index around 4 material events involving the two biggest autocratic countries over the last few years:



Despite a beta ~ 1, LBRTY portfolio delivered a relative outperformance of ~ 6% around the event.

Major events



EM PERFORMANCE CASE STUDY: HOW INCORPORATING CD IMPACTED PORTFOLIO PERFORMANCE

We look at the ten best months of TOBAM LBRTY EM's excess return versus BBG EM over the last 5 years:

8 of these 10 months have seen a geopolitical event or an increase in geopolitical risk.

Dates	BBG EM	TOBAM LBRTY	TOBAM LBRTY excess	Events	Geopolitical event
			return		
Jun-18	-3.8%	0.3%	4.2%	China-US trade tensions ratcheted up	х
May-19	-6.6%	-3.6%	3.0%	The US raised tariffs on US\$200 billion worth of Chinese imports to 25%, from 10%	x
Mar-21	-2.2%	4.2%	6.4%	China underperformed	
Jul-21	-6.1%	-0.2%	5.9%	Crackdown by Chinese authorities on education technology companies	x
Nov-21	-3.1%	0.1%	3.2%	fears over the new "Omicron" variant of Covid-19 weighing on sentiment	х
Mar-22	-3.4%	4.5%	8.0%	Russia invades Ukraine	x
Jul-22	-0.2%	4.2%	4.4%	China was the worst index performer (bad economic release)	х
Sep-22	-10.6%	-6.8%	3.8%	China underperformed	
Oct-22	-3.4%	0.5%	3.9%	The election of Xi Jinping for his third term	x
Feb-23	-5.9%	-2.7%	3.2%	A re-escalation in US-China tensions weighed on sentiment	x

TOBAM's strategy has mitigated the risk of drawdown vs the benchmark.



TOBAM'S COMMITMENT TO HUMAN RIGHTS

Achievements

Since starting this initiative over 10 years ago, TOBAM has donated over 2 million EUR to NGOs and about 3.5 million EUR to sustainability and non-profits' expenses.

H U M A N R I G H T S W A T C H First project funded was with Amnesty International.

TOBAM has sponsored "Human Rights Watch" since 2014 and is one of the largest corporate donator in France. TOBAM's initiative with Human Rights Watch has helped finance a mission in Ukraine, covering a wide range of issues: use of explosive weapons, landmines, monitoring of the humanitarian situation, illegal detentions and torture, freedom of speech, disappearances in Crimea.



Also, TOBAM believes in the freedom of expression & information as a fundamental right and takes pride in associating itself with Reporters without Borders (RSF). Based in Paris, Reporters Without Borders (RSF) is a leading international non-profit and non-governmental organization that safeguards the right to freedom of information. To fight the issues of impunity related to press reporters, RSF set up a Justice for Journalists Task Force through which it will implement a strategic litigation strategy. TOBAM supported the launch of the project in 2020 with initial funding round.

This solidarity-based mechanism - that directly connects investment and philanthropy - was rewarded in 2014 by Axylia, which awarded the "Profit for Non-Profit Special Award" to TOBAM's Anti-Benchmark Emerging Markets Equity Fund.



TOBAM LBRTY BLACKLISTED COUNTRIES 2024



Blacklisted Countries	TOBAM CD Country Rating
China	3.31
Saudi Arabia	3.38
Russian Federation	3.50
Egypt	3.93
United Arab Emirates	4.05
Pakistan	4.10
Qatar	4.23
Turkey	4.61
Kuwait	4.62
Mexico	5.36
	Source: TOBAM

In 2024, 10 Countries would not be eligible in our investible universe for a total of 51 covered countries.

COUNTRIES UNDER THE GOVERNANCE COMMITTEE WATCHLIST 2024



Whitelisted Countries but subject to governance committee	TOBAM CD Country Rating	
Hungary	6.47	
Singapore	6.45	
India	6.29	
Colombia	6.28	
Philippines	6.09	
Indonesia	6.01	
Peru	5.92	

In 2024, 10 countries have been studied by our	
governance committee:	

- Peru has been whitelisted
- Sri Lanka has been blacklisted.

Blacklisted Countries but subject to governance committee	TOBAM CD Country Rating
Sri Lanka	6.04
Thailand	5.82
Hong Kong	5.59

Source: TOBAM



ILLUSTRATION ON FINANCIAL MARKETS: CHINA Oct. 2022

- The Chinese Tech crack down had already highlighted, how risky it can be for entrepreneurs and investors to be exposed to authoritarian regimes.
- With the confirmation of the third term for Xi, his "common prosperity" rhetoric and zero Covid policy, represent clearly a major risk to investors, which is also visible in direct market reaction, wiping out significant amounts of market values in just a few hours.
- To a lesser extent, on opening of the 24th November ,the US-listed Chinese stocks dropped by almost 13%to a new 13-year low.
- During the Chinese Communist Party, reporters captured video of former Chinese President Hu Jintao getting escorted out of the closing ceremony.

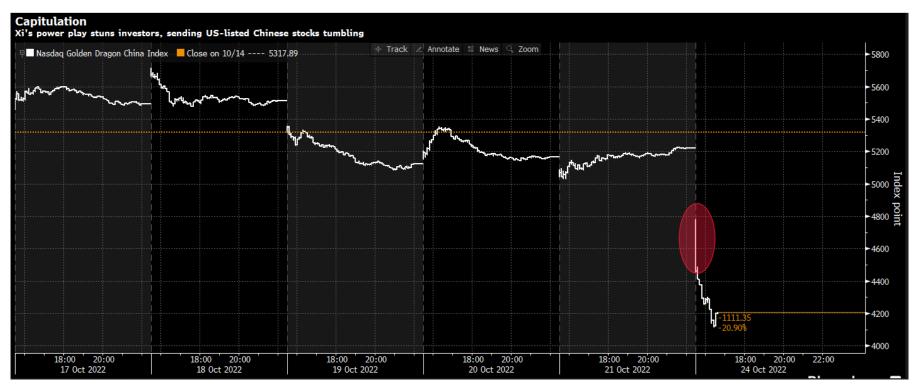




ILLUSTRATION ON FINANCIAL MARKETS: THE CASE OF CHINA (2)

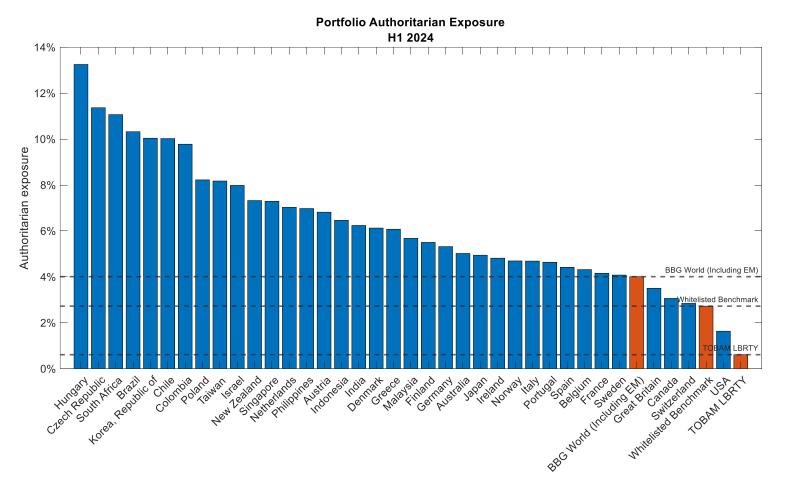
- According to WIND and JP Morgan QDS data, foreign investors held \$530bn of Chinese onshore equities in mid-2022, and around \$540bn of Chinese onshore bonds as of Q2.
- Adjusted for market effects and outflows since the end of June, these holdings fall to \$370bn, if one takes into account the price changes since the end of June. This corresponds to roughly 11% of the free-float market cap of the Chinese stock market.
- These stock estimates can serve as proxy of the potential selling that could happen in the extreme scenario where, similar to the Russian case, foreign investors decide or are forced to exit their Chinese portfolio investments.



Figure 2: Foreign holdings of Chinese domestic equities In \$bn and as % of total market cap and free float market cap.



ELIGIBLE COUNTRY AVERAGE AUTHORITARIAN EXPOSURE WORLD (INCLUDING EM)

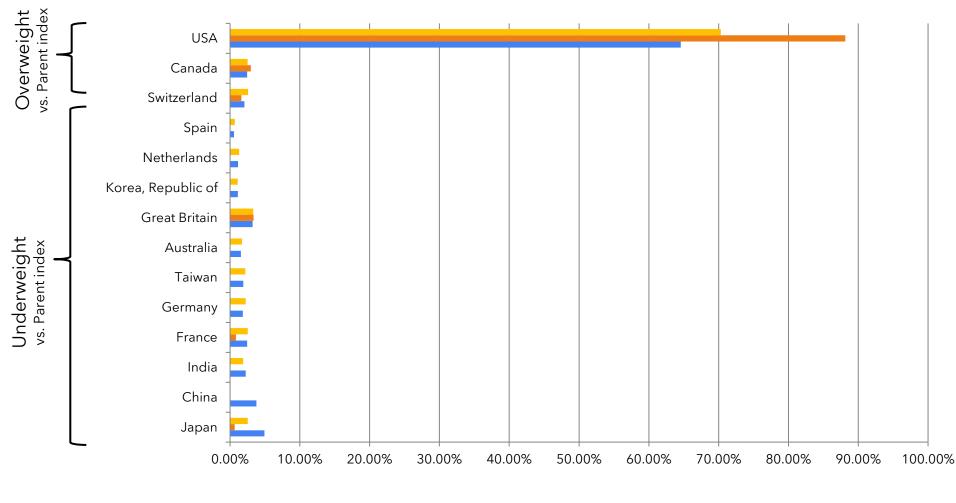


Source: TOBAM

TOBAM WORLD LBRTY portfolios has an authoritarian exposure in H1 2024 lower than the Market Cap Weighted Benchmark of any eligible country.

WORLD (INCLUDING EM) PORTFOLIOS COUNTRY WEIGHTS





Country Allocation

Whitelisted

TOBAM LBRTY ACWI

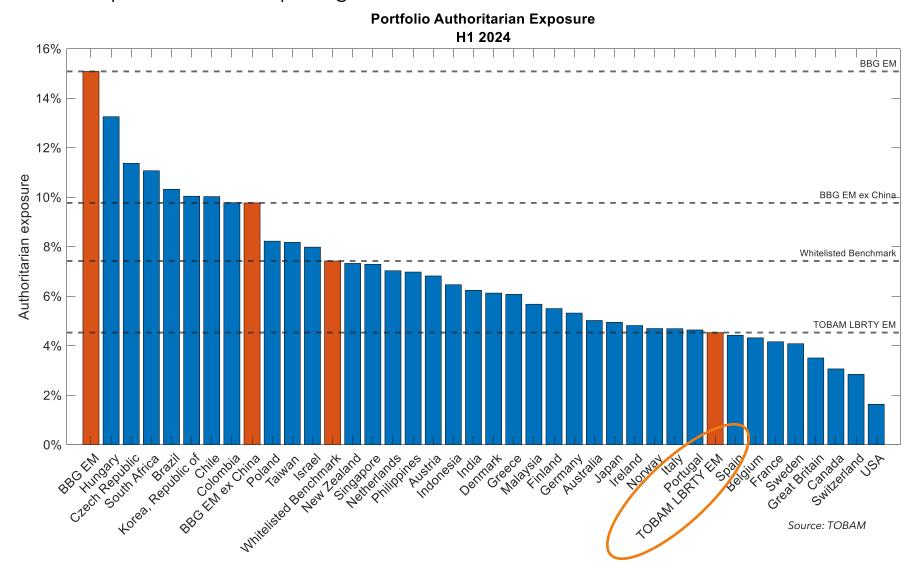
Parent index

Source: TOBAM, Bloomberg Data as of 28th June 24



ELIGIBLE COUNTRY AVERAGE AUTHORITARIAN EXPOSURE EM - AVERAGE H1 2024

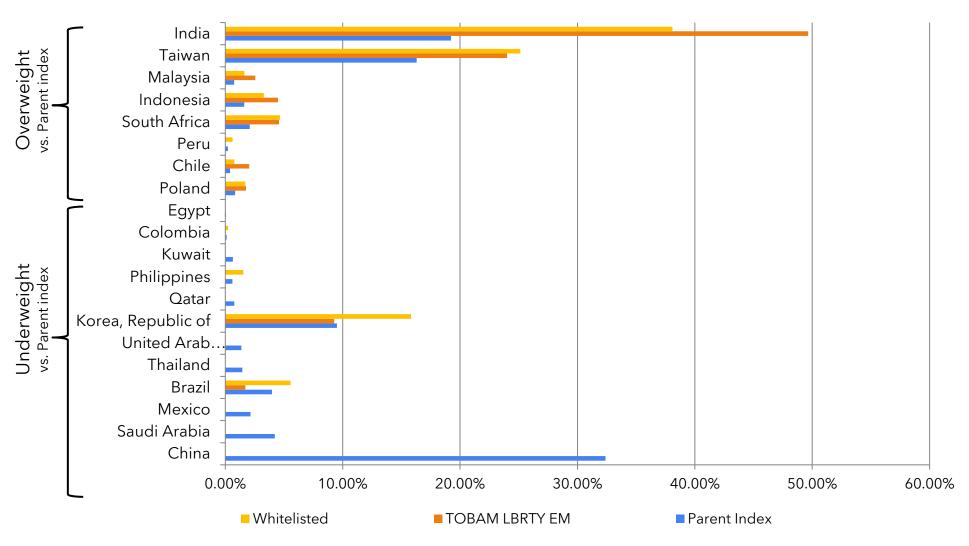
TOBAM EM LBRTY[®] portfolio has an authoritarian exposure in H1 2024 comparable to the Spanish Market Cap Weighted Benchmark.



EM PORTFOLIOS COUNTRY WEIGHTS



Country Allocation



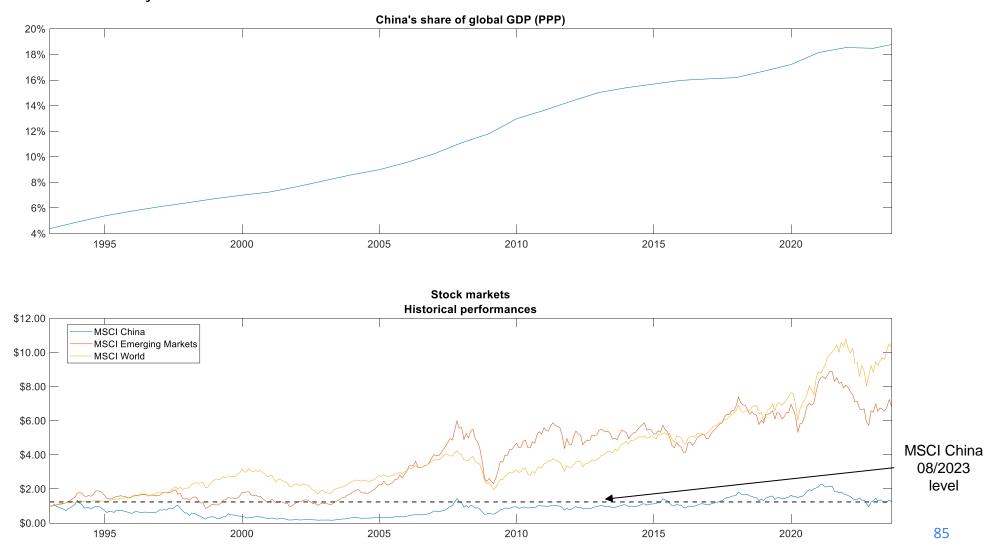
Source: TOBAM, Bloomberg Data as of 28th June 24

Excluding Hong-Kong, China, other autocracies, taking authoritarian exposures into account, leads TOBAM LBRTY® portfolio to overweight Taiwan and India.



CHINESE STOCK MARKET VS. CHINA WEALTH GROWTH

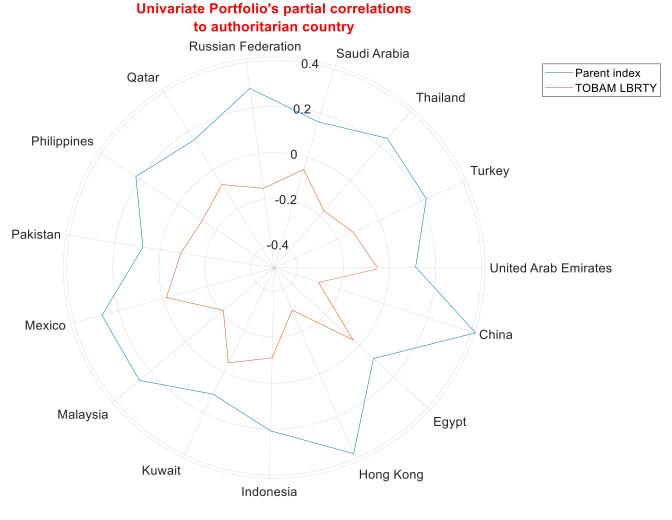
- Share of China in the economy grew fivefold, over 1993-2022 and equity index investors still lost money.
- Since 1993, compared to a global investor, the wealth of the representative Chinese investor decreased by more than 80%.



Source: IMF, TOBAM, MSCI, The period covered is from August 1993 to September 2023

PORTFOLIOS UNIVARIATE CORRELATIONS (DEMOCRATIC WORLD BETA ADJUSTED 2008-2023)

Beyond weights, TOBAM LBRTY portfolio exhibits negative univariate exposures to all autocratic countries, when considering their existing democratic exposures.

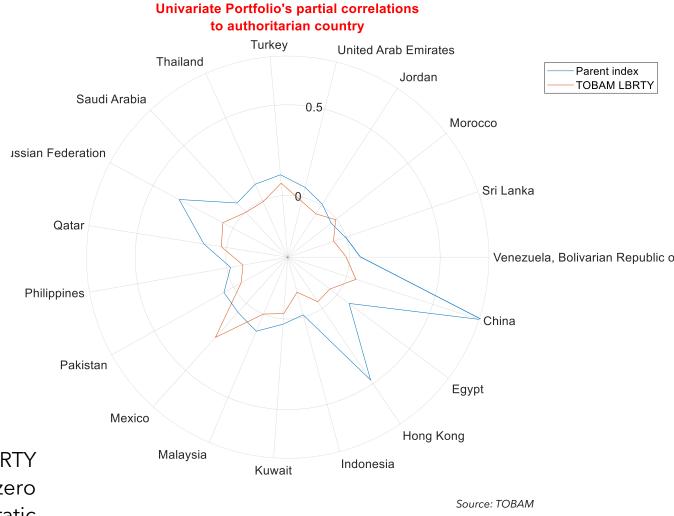


Source: TOBAM

unbiased



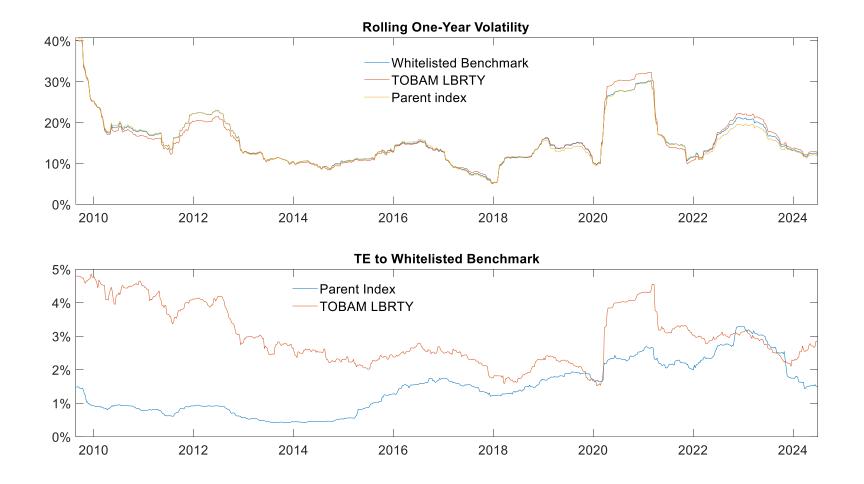
PORTFOLIOS UNIVARIATE CORRELATIONS (DEMOCRATIC EM BETA ADJUSTED 2008-2023)



Beyond weights, TOBAM LBRTY portfolio exhibits close to zero univariate exposures to autocratic countries, when considering their existing democratic exposures.



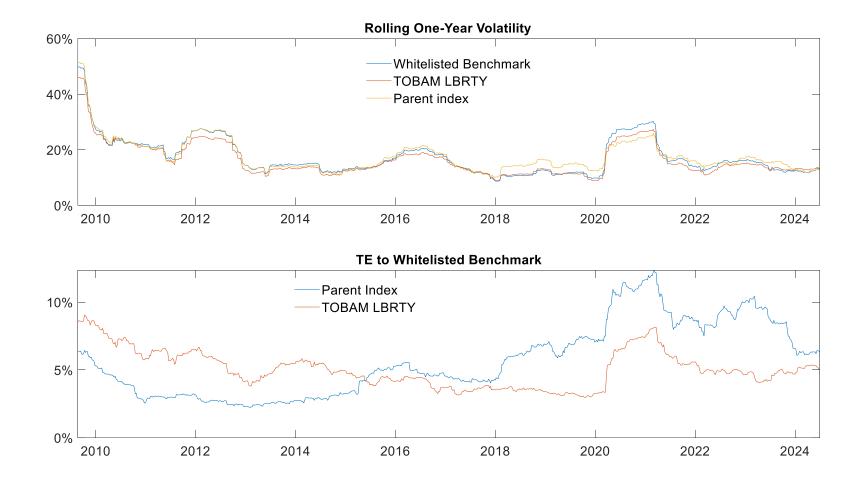
VOLATILITIES AND TRACKING ERRORS WORLD INCLUDING EM



Source: TOBAM



VOLATILITIES AND TRACKING ERRORS



Source: TOBAM

ABOUT TOBAM



TOBAM is an asset management company offering innovative investment capabilities designed to increase diversification. Its mission is to provide rational and professional solutions to long term investors in the context of efficient markets.

The Maximum Diversification[®] approach, TOBAM's flagship investment process founded in 2006, is supported by original, patented research and a mathematical definition of diversification and provides clients with diversified core exposure, in both the equity and fixed income markets.

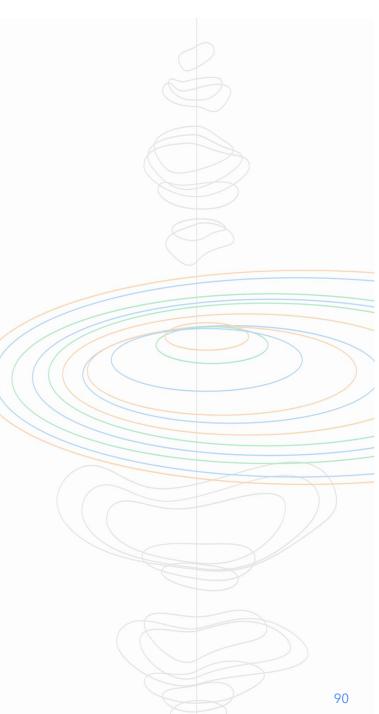
In line with its mission statement and commitment to diversification, TOBAM also launched a separate activity on cryptocurrencies in 2017.

TOBAM manages approx. US\$5 billion (at December 30, 2023). TOBAM's team is composed of 40 professionals.

For more information, visit www.tobam.fr

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