## TOBAM **LBRTY** Strategies





### MIGRATING TOBAM FROM A MONO-CORE ...







.... To Multi-Core



TOBAMSolutions®

Maximum Diversification®

**LBRTY®** 

### WARNING



The presentation herein is not an offer nor a solicitation to invest and is for discussion only.

Its purpose is to present work in progress to get feedback and commentary for further discussion on the subject and research topic.

Moreover, it is being provided as a means to discuss research and thoughts conducted to date at TOBAM.

- Introduction to TOBAM and Anti-Benchmark
- 2 Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- 4 Empirical results
- 5 · Seeding Proposal
- 6. Conclusion
- Appendix



#### THE COMPANY

Independent and employee-owned

- Created in 2005
- Part of CalPERS' EMD program (2011 2021)
- Approx. USD\$ 6 billion under management
- 46 financial professionals, 16 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

#### SHAREHOLDERS STRUCTURE

TOBAM'S EMPLOYEES
92%

AMUNDI 8%

Source: TOBAM. Figures as of June 30, 2023.



#### RESEARCH DRIVEN ASSET MANAGEMENT

48% of the team involved in portfolio management & research (21 people)

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

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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



employees



nationalities



locations

Paris

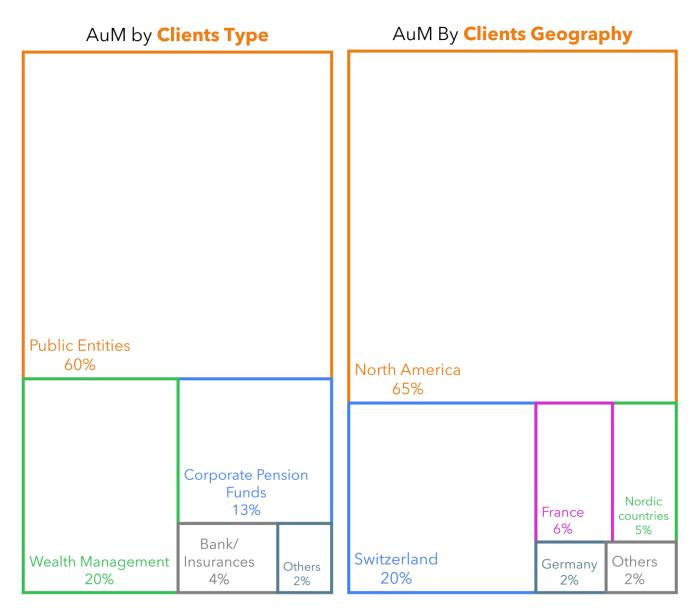
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- Dublin
- New York
- Luxembourg





### **ASSETS UNDER MANAGEMENT**



Strategies	AUM in \$ million
US Equities	1 598
of which open-ended funds	807
Global Developed Equities	1 062
of which open-ended funds	339
Global EM Equities	798
of which open-ended funds	748
Canada Equities	493
of which open-ended funds	148
Global Developed ex US Equities	376
of which open-ended funds	175
ACWI Equities	318
of which open-ended funds	0.5
World ex Swiss Equities	103
of which open-ended funds	103
Swiss Equities	65
of which open-ended funds	65
Euro Equities	38
of which open-ended funds	33
EAFE Equities	24
of which open-ended funds	-
Japan Equities	23
of which open-ended funds	23
Other Equities	16
of which open-ended funds	16
Total Equities	4 912
Global HY Credit	193
of which open-ended funds	193
Global IG Credit	188
of which open-ended funds	188
Total Fixed Income	381
Multi-Asset	140
of which open-ended funds	140
Total Multi Asset	140
Crypto Assets	20
of which open-ended funds	13
Total Crypto Assets	20
Total AUM	\$5.5B

**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 30, 2023

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### **GRANTED PATENTS**



### US PATENT





### AUSTRALIAN PATENT





### JAPANESE PATENT





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#### **AWARDS**

#### 2022

- 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







#### 2021

- "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







#### 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
- "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









#### Other Awards

 "Most Sustainable Company in the Investment Industry" World Finance Sustainability Awards, 2019







 "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

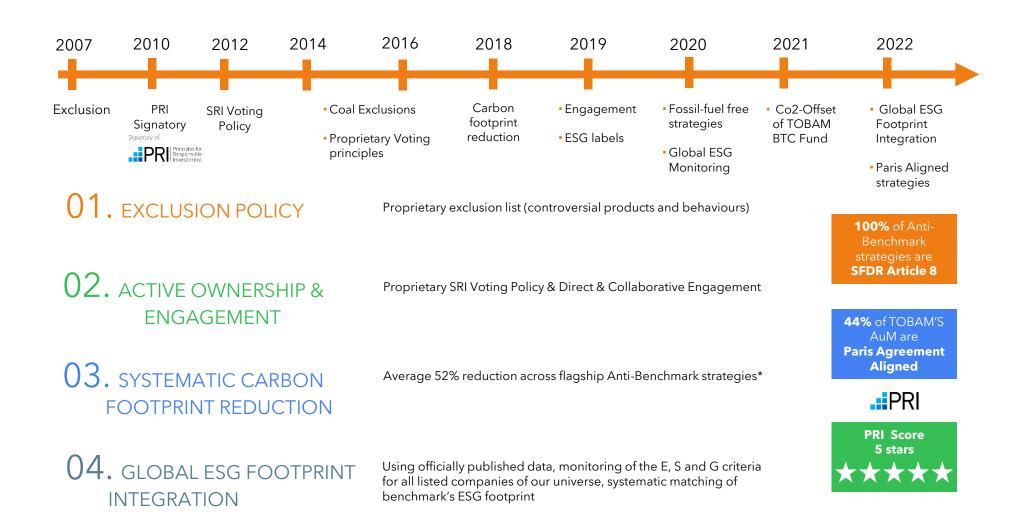


 "Profit for Non-Profit Special Award, TOBAM Anti-Benchmark Emerging Markets Equity Fund" Profit for Non-Profit Awards 2014, Paris





# TOBAM'S SUSTAINABLE APPROACH (1) RESPONSIBLE INVESTMENT



<sup>\*</sup>Weighted average carbon footprint reduction of 52% across our Anti-Benchmark® strategies versus their respective reference index. Strategies' realised reduction ranges between 26% and 90%.

Source: TOBAM, Data as of December 2022.



# TOBAM'S SUSTAINABLE APPROACH (2) RESPONSIBLE COMPANY



## Managing TOBAM's Environmental Impact

- Measure / Mitigate / Offset
- In 2021, 390% of TOBAM's carbon footprint Scope 1/2/3 is offset via reforestation projects
- Pioneering by including "Scope 4" employees' personal emissions in TOBAM's total calculations

## Promotion of Social Progress

 Human Rights NGOs donation mechanism in our EM equity fund







- G. Responsible & Collaborative Governance
- Employee shareholding program & alignment of interest
- Sustainability committee



# TOBAM'S COMMITMENT TO HUMAN RIGHTS ADRESSING THE TYRANNY RISK

#### **TOBAM's journey into Human Rights**



Launching LBRTY®, first fund focused on Civil Rights & Democracy



# TOBAM'S COMMITMENT TO ESG AND CIVIL RIGHTS & DEMOCRACY ADRESSING THE TYRANNY RISK DRIVER ... BECAUSE IT WORKS

#### Our convictions:

- ESG is about creating value on the long run
- ESG is not about doing philanthropy with investors' money
- ESG is about integrating what contributes to value creation and removing what contributes to value destruction
- ESG 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

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#### 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

IOLIBNIAL ARTICLE

Dictatorial Institutions and their Impact on Economic Growth

JENNIFER GANDHI

The Dictator Effect: How Long Years in Office Affects Economic Development in Africa and the Near East

May 2012 · Journal of Institutional Economics

Authors:

Kostadis Papaioannou

The London School of Economics and Political Science

Jan Luiten van Zanden

Utrecht University

## The Economic Effects of Human Rights

<u>Kyklos, Vol. 60, No. 4,</u> 30 Pages Posted: 26 Oct 2007

The economic costs of a discriminatory ideology

Lorenz Blume
Phillips University Marbu
Killian Huber, Volker Lindenthal, Fabian Waldinger / 8 Oct
2018

#### Stefan Voigt

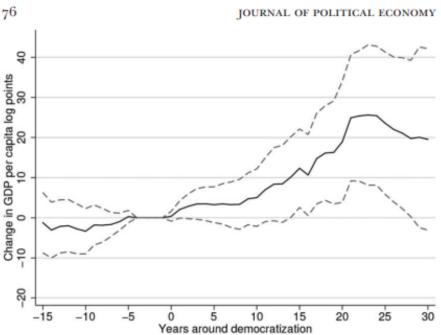
University of Hamburg - Institute of Law & Economics; CESifo (Center for Economic Studies and Ifo Institute)



### ILLUSTRATION: DEMOCRACY DOES CAUSE GROWTH (ACEMOGLU & 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.





# LAUNCHING FIRST FUND FOCUSED ON CIVIL RIGHTS & DEMOCRACY ADRESSING THE TYRANNY RISK

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

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



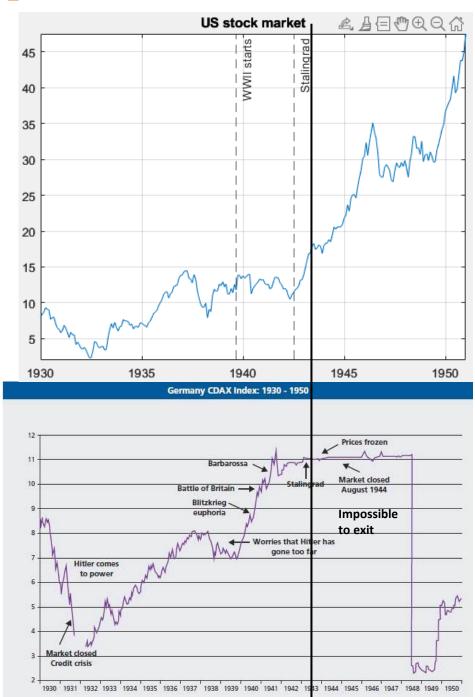
#### GERMANY 1930-1950: REVERSE J-CURVE

Germany's stock market knew a sharp rise from 1939 to 1944.

This rise is not present in the US market.

From 1944, prices were frozen, and it was impossible to get out from the German's stocks market.

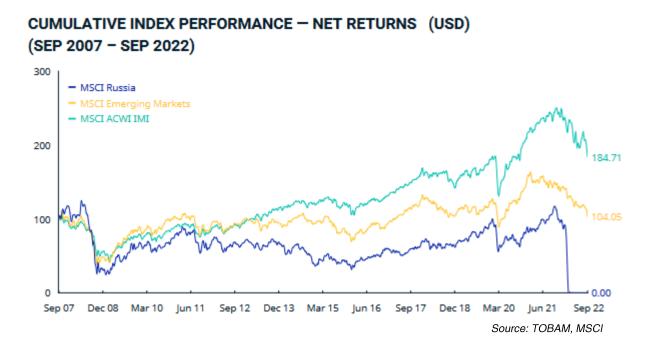
The German's stocks market opened back in mid-1948 with a fall of ~80% (+inflation).





#### ILLUSTRATION ON FINANCIAL MARKETS: 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





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.



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!!!



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



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

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



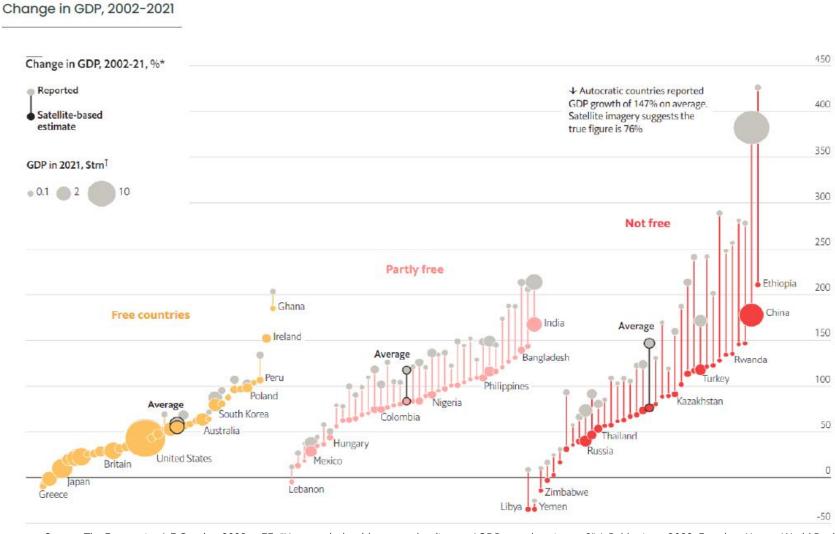


Source: https://tfiglobalnews.com/



### 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.



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#### INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION

### Measuring Countries Civil Liberty and The State of Democracy

There is plenty of data sources, reliable, independent, neutral. Good example of that is VDEM (see illustration next slide).

Datasets include typical pillars:

Functioning of the government	Civil Liberty pillar	Rule of Law & Corruption pillar	Political participation	Inclusiveness pillar	Political culture
Civil liberties	Pluralism	Electoral process	[]		
			Da	ata processing	

1. The TOBAM "Country CD rating" synthetizes the information. Country CD ratings are between 0 and 10. The threshold is set at 6.





#### **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: https://www.v-dem.net/about/v-dem-project/

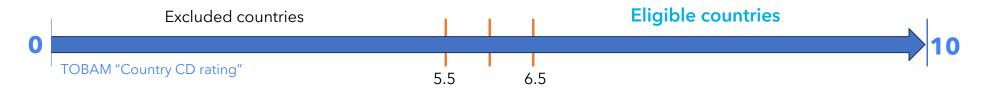




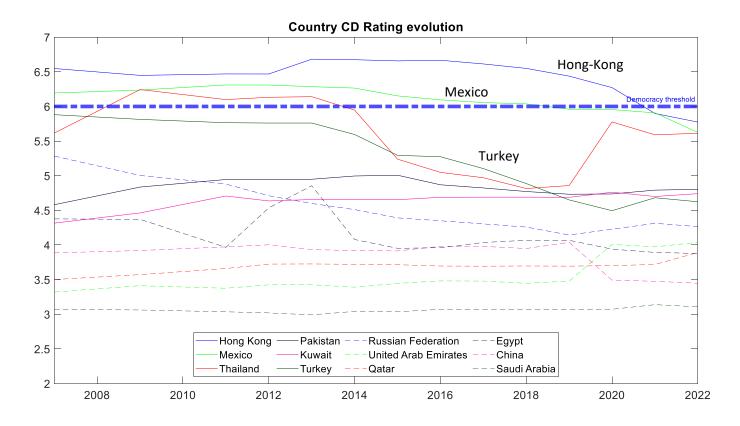


### INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION

### 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 index as of Dec-22.

Country CD ratings are relatively stable over time.

#### INVESTMENT PROCESS: LBRTY PORTFOLIO CONSTRUCTION



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

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

- 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.
  - Define the authoritarian exposure (AE) of a company as the sum of its exposure to each authoritarian country.

STMICROELECTRONICS NV 6.6%

AMUNDI SA 5% SOCIETE GENERALE 9.5%

BOUYGUES SA 6.6% MICHELIN (CGDE)-B 10%

GETLINK SE 5.3%

SODEXO SA 11% ENGIE 12% CREDIT AGRICOLE SA 5.9%

BIOMERIEUX 3.7%

TELEPERFORMANCE 5.2%

THALES SA 13% PUBLICIS GROUPE 8.3%

ORANGE 8.5%

WORLDLINE SA 6.4%

VINCI SA 7.8%

ALSTOM 14%

SAFRAN SA 6.9%

AXA SA 6.9%

BNP PARIBAS 6%

EDENRED 5.1%

CAP GEMINI SA 4.4%

CARREFOUR SA 12%

PERNOD-RICARD SA 6.4%

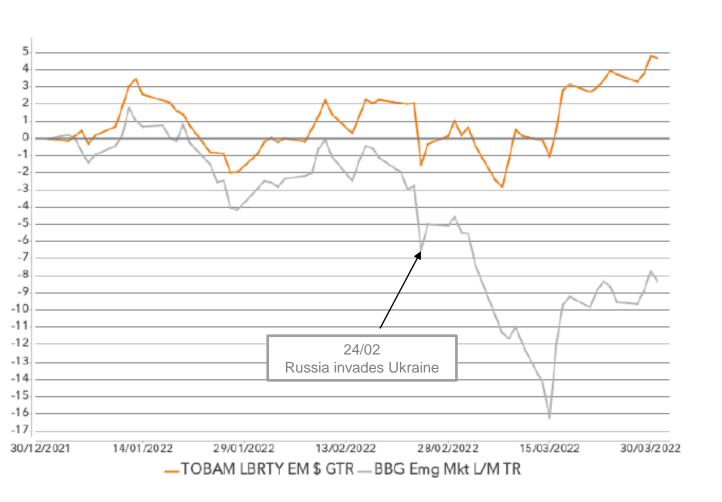
VEOLIA ENVIRONNEMENT 9.8%

L'OREAL 4.6%

O5. Construct LBRTY Portfolio: Minimization of overall authoritarian exposure subject to a defined long term tracking error



# 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 TR

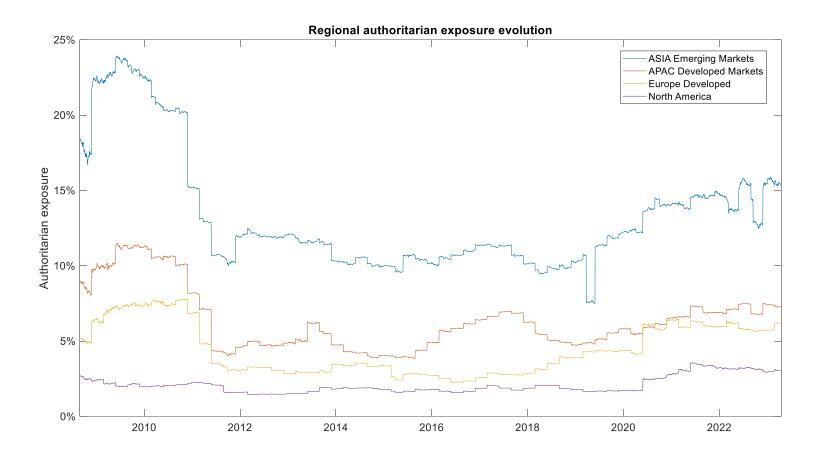
Return: -8.32%

Hist volatility: 21.92%

Excess Return: 13.02%

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### DEVELOPED REGIONAL BENCHMARKS AUTHORITARIAN EXPOSURE

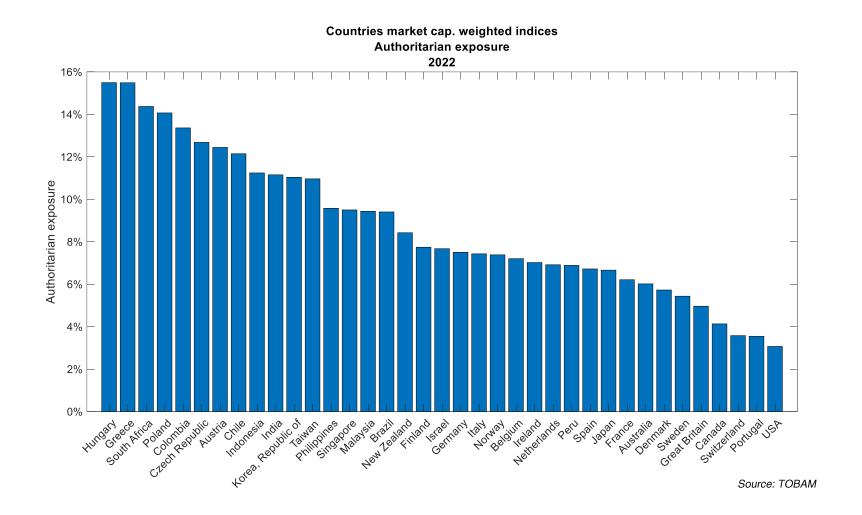


Source: TOBAM

Democratic Asian benchmarks have recently been two to five times more exposed to authoritarian countries compared to their North-American / European counterparts

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## ELIGIBLE **COUNTRY BENCHMARKS** AUTHORITARIAN EXPOSURE AVERAGE 2022

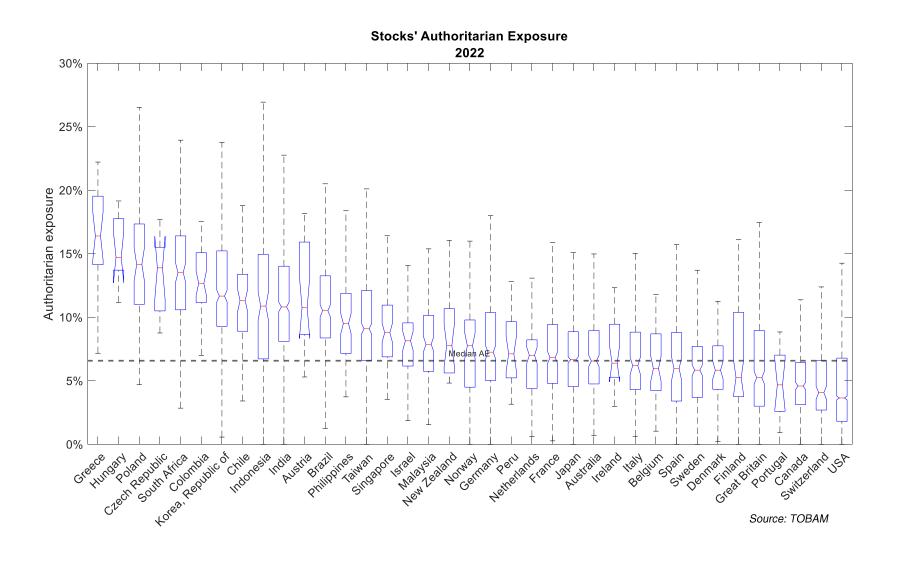


At the country level, democratic benchmarks exhibit a large spectrum of exposures to authoritarian countries, with the South-African and Hungarian benchmarks for example being <u>4 to 5 times more exposed</u> to authoritarian countries compared to benchmarks of Sweden, USA, Switzerland and Portugal.

# ELIGIBLE **COMPANIES**' AUTHORITARIAN EXPOSURES BY COUNTRY 2022



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





#### **AUTHORITARIAN EXPOSURE BY STOCKS**

NORDIC COUNTRIES, GERMANY, FRANCE AND SWITZERLAND AS OF MARCH 23

#### **Nordic Countries**

SVENSKA CELLULOSA AB-B SHS 4.9% NORDEA BANK ABP\_1 5.2%

GJENSIDIGE FORSIKRING ASA 4.9% ORKLA ASA 5.1%

EPIROC AR-A 4%

CARLSBERG AS-B 9.7%

HOLMEN AB-B SHARES 7%

NOKIA OYJ 7.4% AUTOSTORE HOLDINGS LTD 5.1%

EVOLUTION GAMING GROUP 7.5%

SWEDISH ORPHAN BIOVITRUM AB 8.6% GETINGE AB-B SHS 4.8% DANSKE BANK A/S 5.8%

NOVO NORDISK A/S-B 9.2% TOMRA SYSTEMS ROCKWOOL INTL A/S-B SHS 5.4% SVENSKA HANDELSBANKEN-B SHS 5.6%

GENMAB A/S 6.5% A P MOLLER - MAERSK A/S - B 9.3% SKANDINAVISKA ENSKILDA BAN-A 6.9% YARA INTERNATIONAL ASA 8.8% ADEVINTA ASA-B 10% NORSK HYDRO ASA 7.5%

SANDVIK AB 5.1% PANDORA A/S 9.9% NESTE OIL OYJ 11% SWEDBANK AB - A SHARES 7.4% FASTIGHETS AB BALDER-B SHRS 11%

EMBRACER GROUP AB 6.6% KONGSBERG GRUPPEN ASA 13% TRYGVESTA AS 7.5% BELIER REE AB 4 1% VOLVO AB-A SHS 8.3% FORTUM OYJ 21% TELE2 AB-B SHS 8.8%

EPIROC AB-B 4.8% OUTOTEC OYJ 8.5% EPIROC AB-8 4-8%
EQUINOR ASA 4-8%
ELISA OYJ 5-3%
TELIA CO AB 8.8%
HEXAGON AB-B SHS 4.1%
VAR ENERGI ASA 7.7%

INDUSTRIVARDEN AB-C SHS 7% CASTELLUM AB 7.7%

VOLVO CAR AB-B 14% UPM-KYMMENE OYJ 8%

AKER ASA-A SHARES 13% INDUSTRIVARDEN AB-A SHS 7% MOWI ASA 12% SAGAX AB-B 10% TELENOR ASA 6.8% SAMPO OYJ-A SHS 5.8% SAMPO

KONE OYJ-B 5.8% VOLVO AB-B SHS 8.3% STORA ENSO OYJ-R SHS 7.5% DNB BANK ASA 6.4% TRELLEBORG AB-B SHS 9.9%

SKF AB-B SHARES 6.4% HENNES & MAURITZ AB-B SHS 9.3% VESTAS WIND SYSTEMS A/S 7% BOLIDEN AB 5.4% KESKO

SKANSKA AB-B SHS 4.5%

CHR HANSEN HOLDING A/S 4.6%

SVENSKA HANDEL SRANKEN LA SHS 7 NIBE INDUSTRIER AB-B SHS 3.1%

WILLIAM DEMANT HOLDING 5.1%

SVENSKA HANDELSBANKEN-A SHS 7.2% SKANDINAVISKA ENSKILDA BAN-C 7.1%

LUNDBERGS AB-B SHS 4.9%

#### Germany

INFINEON TECHNOLOGIES AG 7.3% DEUTSCHE TELEKOM AG-REG 7.9% TELEFONICA DEUTSCHLAND HOLDI 8.9%

FRESENIUS MEDICAL CARE AG 11%

HEIDELBERGCEMENT AG 7.1% PORSCHE AUTOMOBIL HLDG-PFD 12% **EVONIK INDUSTRIES AG 6.6%** DELIVERY HERO AG 12%

HENKEL KGAA-VORZUG 6.6% DEUTSCHE LUFTHANSA-REG 13% BASF AG 7.7%

BAYER AG 12% CONTINENTAL AG 14% KNORR-BREMSE AG 9%

DEUTSCHE POST AG-REG 7.4% VOLKSWAGEN AG PFD 14% COVESTRO AG 7.7%

FRESENIUS SE & CO KGAA 18% TALANX AG 7.6% ALLIANZ SE-REG 5.2% BAYERISCHE MOTOREN WERKE-PFD 15% RWE AG 5.6%

VANTAGE TOWERS AG 4.6% DAIMLER AG-REGISTERED SHARES 14% SIEMENS AG-REG 5.1% TRATON SE 10% VOLKSWAGEN AG 13% DEUTSCHE BOERSE AG 5.7%

RATIONAL AG 4.6% **BAYERISCHE MOTOREN WERKE AG 12%** BEIERSDORF AG 4.9%

E.ON AG 8.1% HAPAG-LLOYD AG 12% DEUTSCHE WOHNEN AG-BR 6.7% ADIDAS AG 11%

MUENCHENER RUECKVER AG-REG 5.9% DAIMLER TRUCK HOLDING AG 9.5%

HENKEL KGAA 6.3% MTU AERO ENGINES HOLDING AG 8%

HANNOVER RUECKVERSICHERU-REG 7.9% DEUTSCHE BANK AG-REGISTERED 6.6%

#### France

LVMH MOET HENNESSY LOUIS VUI 5.5%

STMICROELECTRONICS NV 6.6%

AMUNDI SA 5% SOCIETE GENERALE 9.5%

BOUYGUES SA 6.6% MICHELIN (CGDE)-B 10%

SODEXO SA 11% ENGIE 12% CREDIT AGRICOLE SA 5.9%

TELEPERFORMANCE 5.2% THALES SA 13% PUBLICIS GROUPE 8.3%

**BOLLORE 7.5%** ORANGE 8.5%

**TOTALENERGIES SE 8.3%** 13%KERING 9.5%

8% GECINA SA 6.8% VIVENDI 7% DANONE 5.2% WORLDLINE SA 6.4% RENAULT

SAFRAN SA 6.9%

4% SANOFI-AVENTIS 3% EUROFINS SCI AIR LIQUIDE 4.9%

AXA SA 6% **BNP PARIBAS 6%** EDENRED 5.1% CAP GEMINI SA 4.4%

**AIRBUS SE 13%** CARREFOUR SA 12% PERNOD-RICARD SA 6.4%

**ESSILORLUXOTTICA 6.7%** 

**VEOLIA ENVIRONNEMENT 9.8%** 

COMPAGNIE DE SAINT-GOBAIN 6.6%

#### Switzerland

SCHINDLER HOLDING-PART CERT 3.8% **ROCHE HOLDING AG-GENUSSCHEIN 4.7%** LOGITECH INTERNATIONAL-REG 5.6%

ZURICH INSURANCE GROUP AG 6.1% SWISSCOM AG-REG 5.5% CHOCOLADEFABRIKEN LINDT-PC 3% **NOVARTIS AG-REG 4%** SWISS RE AG 7%

**GEBERIT AG-REG 2.8%** CREDIT SUISSE GROUP AG-REG 7.2%

HOLCIM LTD 8.2% EMS-CHEMIE HOLDING AG-REG 4.4% RAUMANN HOLDING AG-REG 3 1%

SWATCH GROUP AG/THE-REG 9.3%

CIE FINANCIERE RICHEMO-A REG 11% SWATCH GROUP AG/THE-BR 9.9% VAT GROUP AG 3.2%

GIVAUDAN-REG 2.8% JULIUS BAER GROUP LTD 8.5%

SIKA AG-REG 2.3% SWISS LIFE HOLDING AG-REG 7.4%

SGS SA-REG 3.3% **UBS GROUP AG-REG 6.4%** 

ALCON INC 12.3% **ROCHE HOLDING AG-BR 5.6%** 

SONOVA HOLDING AG-REG 4.9%

**KUEHNE + NAGEL INTL AG-REG 4.4%** SCHINDLER HOLDING AG-REG 3.9%

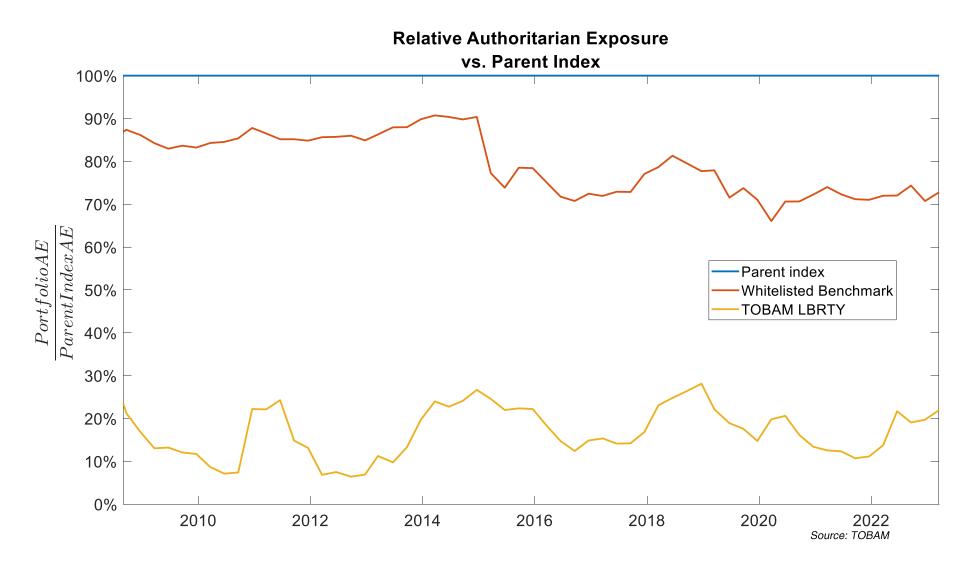
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BARRY CALLEBAUT AG-REG 1.8%

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## PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE WORLD INCL. EM



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

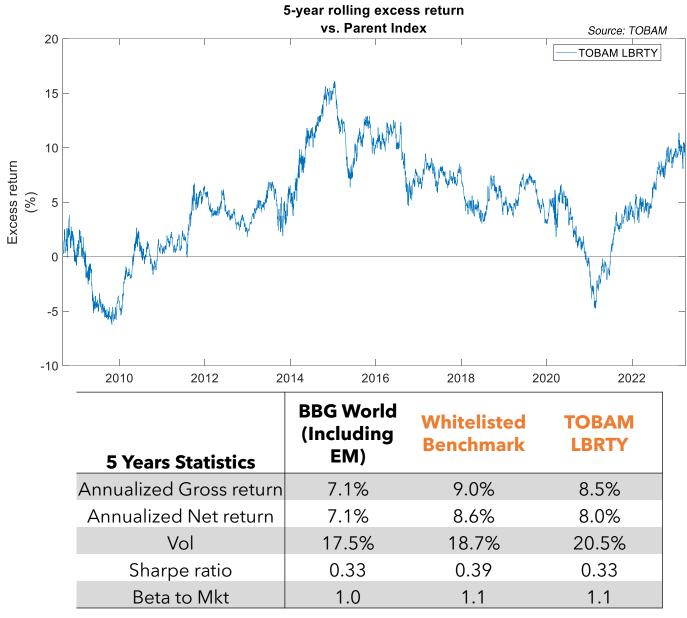
Statistics	BBG World (Including EM)	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	7.2%	8.0%	8.3%
Annualized Net return	7.2%	7.6%	7.8%
Vol	18.0%	18.3%	19.5%
Sharpe Ratio	0.36	0.37	0.37
Beta to Mkt	1.00	1.00	0.98
Average Number of stocks	2749	1711	268
Average Eff. Number of stocks	396.3	279.9	150.4
Authoritarian Exposure (2022)	5.3%	3.8%	1.0%
Relative Authoritarian Exposure (2022)	100.0%	72.2%	18.6%
TE(Parent index)	0.0%	2.0%	5.4%
TE(Whitelisted index)	2.0%	0.0%	4.7%

The period covered is from August 2008 to March 2023. 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

# tobam\*

#### 5-YEAR ROLLING EXCESS RETURNS

**WORLD INCLUDING EM** 



The period covered is from February 2008 to March 2023. 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 EXPOSURES WORLD INCLUDING EM

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

XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	1.7%***	3.7%***
SMB	-0.7%	2.4%
HML	-7.1%***	0%
UMD	-0.6%	-1.5%
QMJ	6.5%***	22.1%***
BAB	-1%	-3.1%*
Alpha	0.4%	-0.3%
R²	21%	10%

Factors are on AQR Global universe. Value (HML), momentum (UMD), size (SMB), Quality(QMJ) and Betting against Beta (BAB)

Fama-French XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	0.2%	-1.1%
SMB	-8.1%***	-16.2%***
HML	-6.8%***	-1.5%
RMW	4.9%***	18%***
CMA	3.3%**	7.2%*
WML	-0.8%*	-1.3%
Alpha	0.4%	0.2%
R <sup>2</sup>	25%	14%

Factors are on Developed universe. Value (HML), momentum (WML), size (SMB), Quality(CMA & RMW) \*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%.

<sup>\*</sup>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%.



## TOBAM LBRTY TRACKING ERROR DECOMPOSITION WORLD INCLUDING EM

Majority of the TE vs. parent index and 50% of the TE vs. Whitelisted Benchmark is due to the reduction of exposure to authoritarian countries

World (Including EM) Nov 2009 - Mar 2023	Tracking error attribution vs.  Parent Index		_	attribution vs.
Risk factor	TCR	PCR	TCR	PCR
Market	0.4%	6.5%	0.3%	6.7%
Authoritarian countries	-0.1%	-1.9%	0.0%	0.0%
Indirect exposure	3.6%	66.3%	2.3%	49.6%
Sector	0.6%	11.2%	0.7%	14.8%
Residuals	1.0%	18.0%	1.4%	28.8%
Total	5.4%	100.0%	4.7%	100.0%

TCR = Total contribution to tracking error

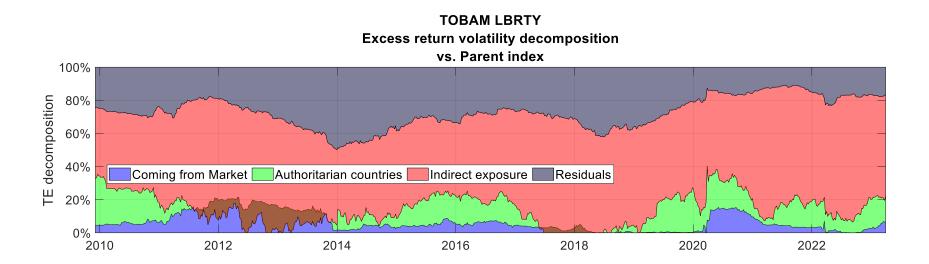
PCR = Percentage contributions to tracking error

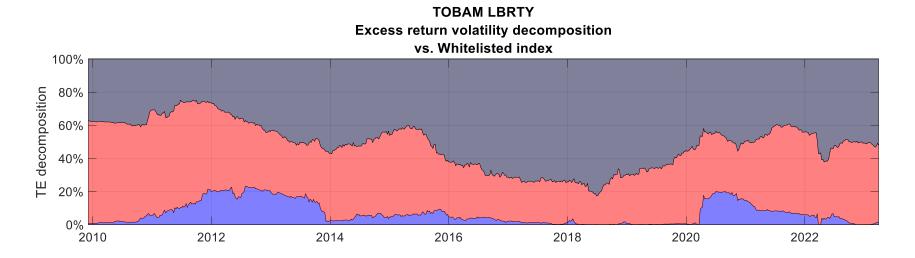
Source: TOBAM



#### TOBAM LBRTY TRACKING ERROR DECOMPOSITION

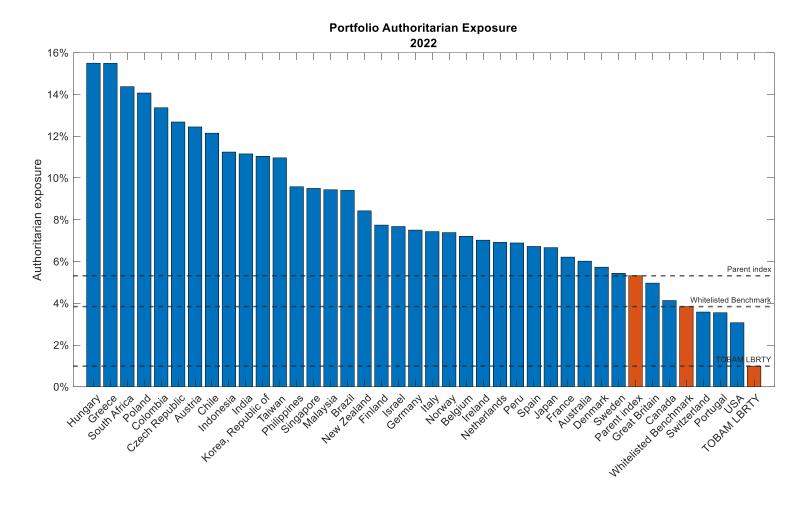
**WORLD INCLUDING EM** 







## ELIGIBLE COUNTRY BENCHMARKS AUTHORITARIAN EXPOSURE WORLD (INCLUDING EM) - AVERAGE 2022



Source: TOBAM

TOBAM WORLD LBRTY portfolios has an authoritarian exposure in 2022 lower than the Market Cap Weighted Benchmark of any eligible country.



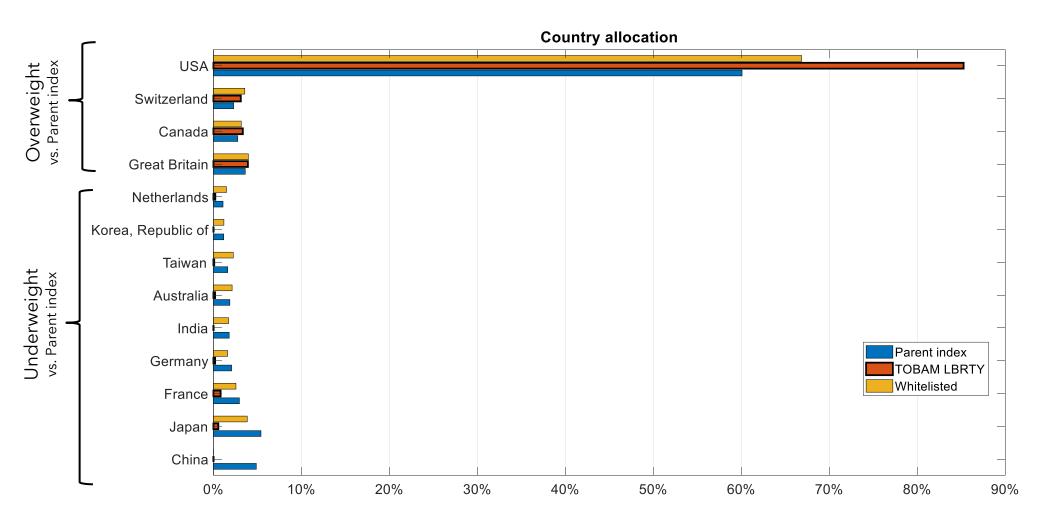
## EXCESS RETURN PERFORMANCE ATTRIBUTION BY COUNTRY WORLD INCLUDING EM



The period covered is from September 2009 to March 2023. 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 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

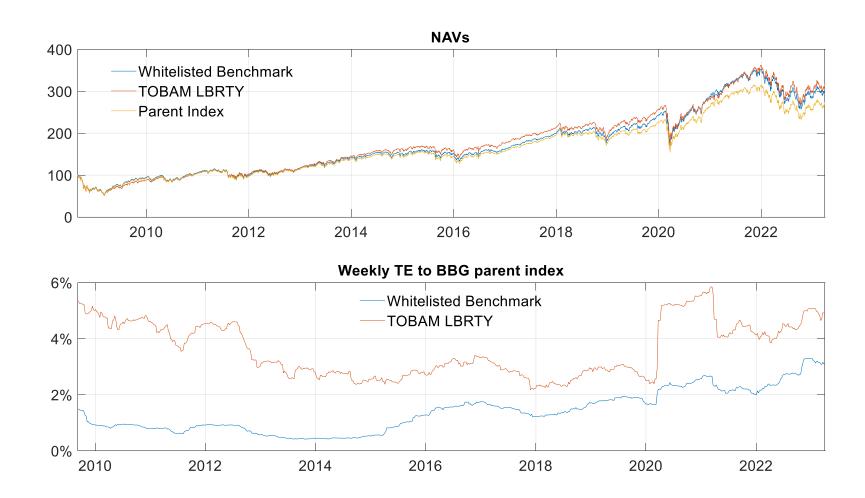


## WORLD (INCLUDING EM) PORTFOLIOS COUNTRY WEIGHTS AVERAGE 2023





## NAVS AND TRACKING ERRORS WORLD INCLUDING EM



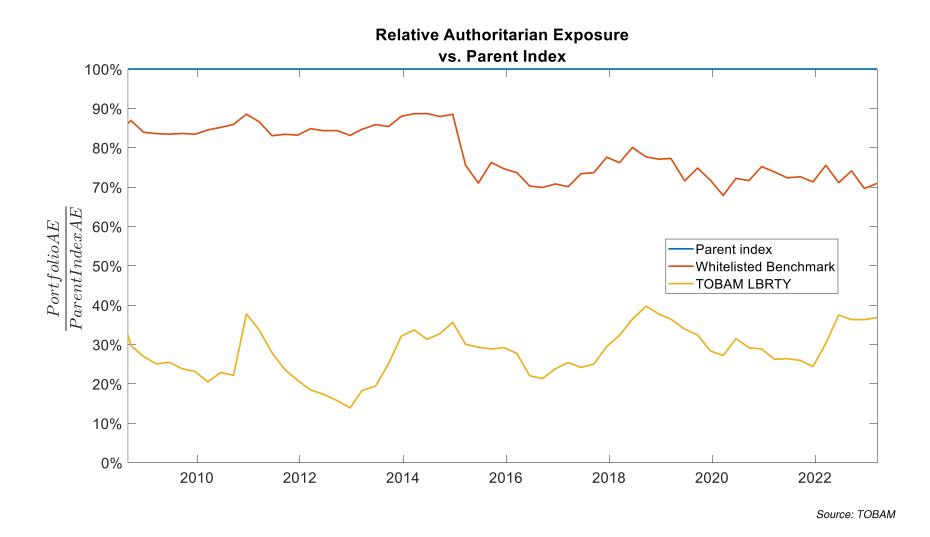
Source: TOBAM

- Introduction to TOBAM and Anti-Benchmark
- Investment Philosophy The case for Civil and Democratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- Empirical results: World Ex USA (Including EM)
- 5 Seeding Proposal
- Conclusion
- Appendix



#### PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE

WORLD EX USA (INCLUDING EM)



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



## BACKTEST SUMMARY WORLD EX USA INCLUDING EM

Statistics	BBG World ex USA (Including EM)	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	4.0%	4.2%	4.7%
Annualized Net return	4.0%	3.8%	4.3%
Vol	18.6%	18.5%	18.9%
Sharpe Ratio	0.18	0.17	0.19
Beta to Mkt	1.0	1.0	1.0
Average Number of stocks	2085	1215	246
Average Eff. Number of stocks	406.1	258.8	140.0
Authoritarian Exposure (2022)	8.8%	6.4%	3.1%
Relative Authoritarian Exposure (2022)	100.0%	72.6%	35.1%
TE(Parent index)	0.0%	2.8%	5.4%
TE(Whitelisted index)	2.8%	0.0%	4.6%

The period covered is from August 2008 to March 20223 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 40bps. 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 EX USA INCLUDING EM

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

XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	-0.8%	-5.2%***
SMB	-0.3%	-5.5%*
HML	-3.3%***	0.8%
UMD	-2.7%***	-6.2%***
QMJ	2.7%	1.5%
BAB	2.1%*	6.2%***
Alpha	-0.1%	0.7%
R²	4%	7%

Factors are on AQR Global ex USA universe. Value (HML), momentum (UMD), size (SMB), quality(QMJ) and Betting against Beta (BAB)

Fama-French XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	-1%*	-4.7%***
SMB	-2.9%**	-5.4%**
HML	-4.3%**	0.5%
RMW	4.9%**	9.2%**
CMA	5.2%**	5.2%
WML	-3.1%***	-4.3%***
Alpha	-0.1%	0.6%
R²	6%	7%

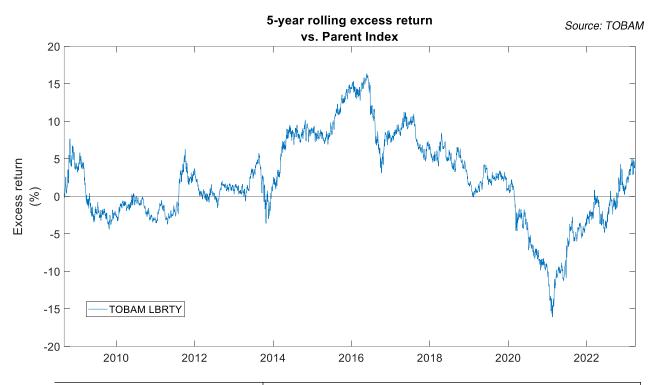
Factors are on Developed ex US universe. Value (HML), momentum (WML), size (SMB), Quality(CMA & RMW) \*indicates that the estimated coefficient is different from zero with a probability of 90%, \*\* with a probability of 95% and \*\*\* with a probability of 99%.

<sup>\*</sup>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%.



#### 5-YEAR ROLLING EXCESS RETURNS

WORLD EX USA (INCLUDING EM)



5 Years Statistics	BBG World ex USA (Including EM)	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	3.1%	3.8%	3.6%
Annualized Net return	3.1%	3.4%	3.2%
Vol	15.6%	16.0%	16.9%
Sharpe ratio	0.11	0.13	0.11
Beta to Mkt	1.00	1.00	1.02

The period covered is from February 2018 to March 2023. 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.



## TOBAM LBRTY TRACKING ERROR DECOMPOSITION WORLD EX USA INCLUDING EM

Most of the TE vs. parent index and about 40% of the TE vs. Whitelisted Benchmark is due to the reduction exposure to authoritarian countries

World ex USA(Including EM) Nov 2009 - Mar 2023	Parent Index		_	attribution vs. <b>Benchmark</b>
Risk factor	TCR	PCR	TCR	PCR
Market	0.4%	8.3%	0.3%	6.6%
Authoritarian countries	0.1%	1.7%	0.0%	0.0%
Indirect exposure	3.5%	64.4%	1.9%	41.3%
Sector	0.5%	9.2%	0.8%	18.2%
Residuals	0.9%	16.4%	1.5%	33.9%
Total	5.4%	100.0%	4.6%	100.0%

TCR = Total contribution to tracking error

PCR = Percentage contributions to tracking error

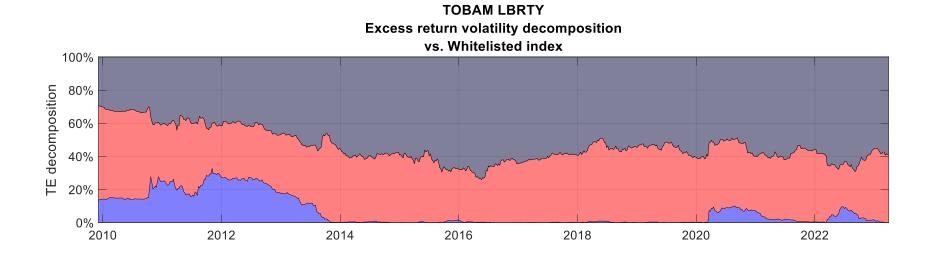
Source: TOBAM



#### TOBAM LBRTY TRACKING ERROR DECOMPOSITION

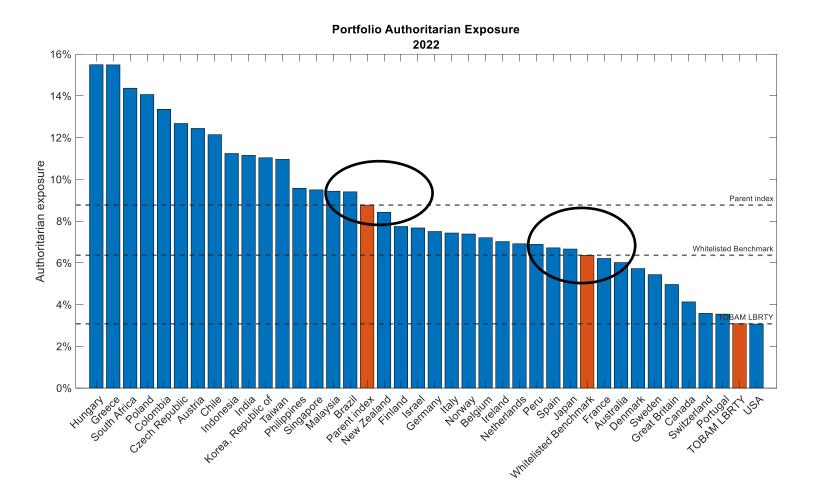
WORLD EX USA INCLUDING EM

#### **TOBAM LBRTY Excess return volatility decomposition** vs. Parent index 100% TE decomposition 80% 60% Coming from Market Authoritarian countries Indirect exposure Residuals 40% 20% 0% 2010 2012 2014 2016 2018 2020 2022





## ELIGIBLE COUNTRY BENCHMARKS AUTHORITARIAN EXPOSURE WORLD EX USA (INCLUDING EM) - AVERAGE 2022



Source: TOBAM

TOBAM WORLD ex USA LBRTY portfolios has an authoritarian exposure in 2022 lower than the Market Cap Weighted Benchmark of any eligible country.



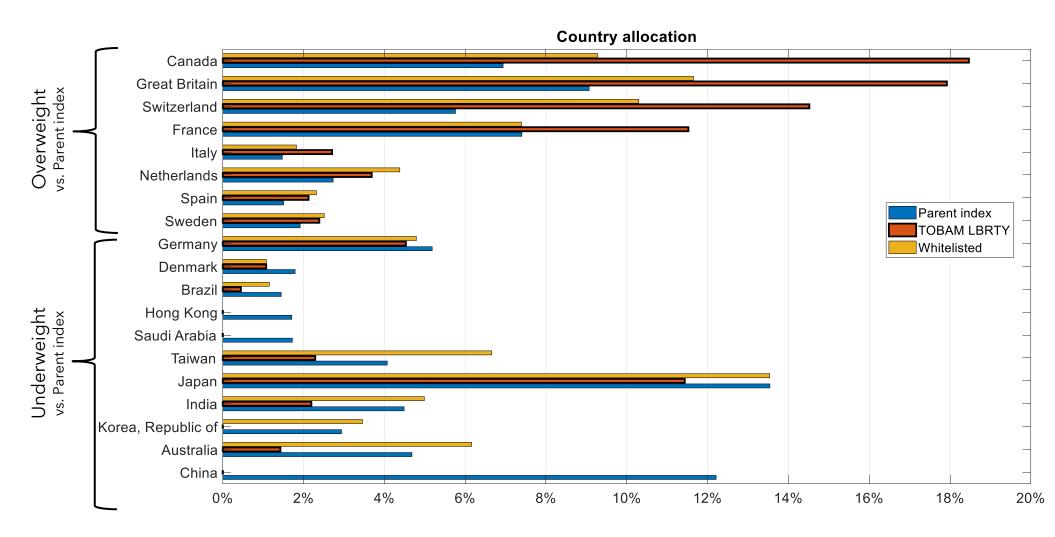
## EXCESS RETURN PERFORMANCE ATTRIBUTION BY COUNTRY WORLD EX USA INCLUDING EM



The period covered is from September 2009 to March 2023. 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 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\*

## WORLD EX USA (INCLUDING EM) PORTFOLIOS COUNTRY WEIGHTS AVERAGE 2023

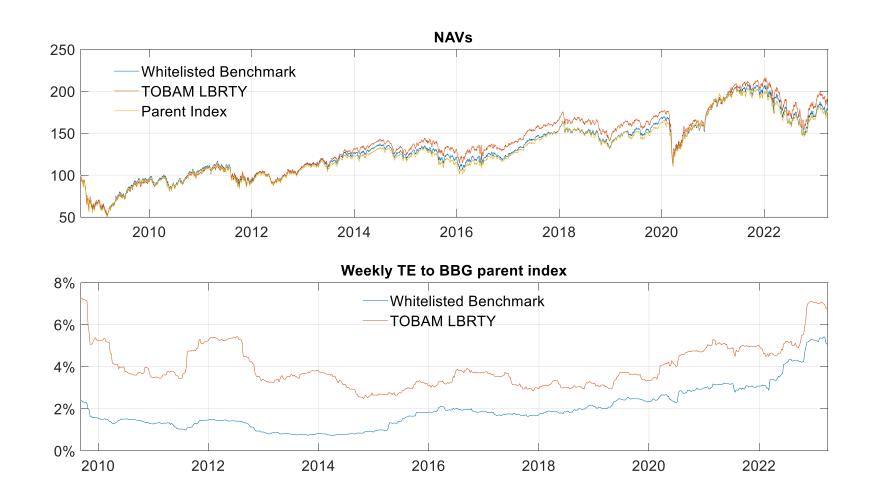


Source: TOBAM, Bloomberg



#### NAVS AND TRACKING ERRORS

WORLD EX USA (INCLUDING EM)

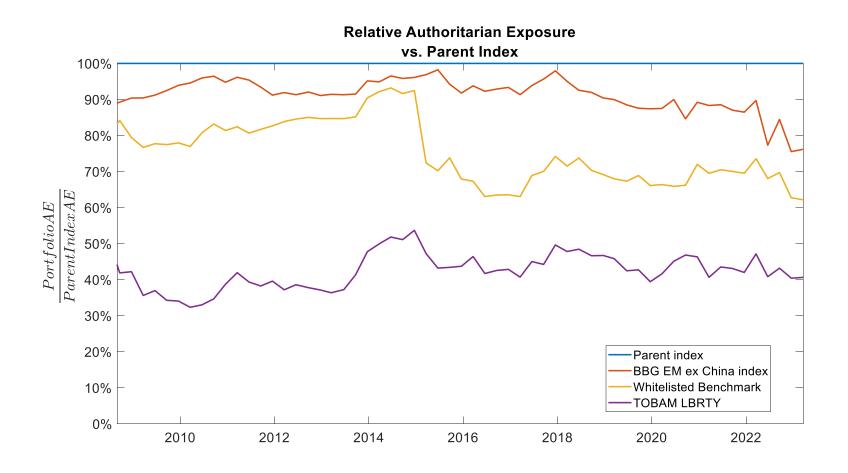


Source: TOBAM

- Introduction to TOBAM and Anti-Benchmark
- 2 Investment Philosophy The case for **C**ivil and **D**emocratic Rights
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## PORTFOLIOS RELATIVE AUTHORITARIAN EXPOSURE *EM*



Source: TOBAM

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



#### **BACKTEST SUMMARY**

EM

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Statistics	BBG EM	BBG EM ex China	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	3.7%	3.5%	3.8%	6.1%
Annualized Net return	3.7%	3.5%	3.3%	5.6%
Vol	20.3%	20.3%	19.5%	18.7%
Sharpe Ratio	0.15	0.14	0.13	0.26
Beta to Mkt	1.0	1.0	0.9	0.9
Average Number of stocks	1099	842	460	135
Average Eff. Number of stocks	161.4	138.7	113.7	61.6
Authoritarian Exposure (2022)	14.0%	11.4%	9.5%	6.0%
Relative Authoritarian Exposure (2022)	100.0%	81.5%	68.4%	42.8%
TE(Parent index)	0.0%	5.3%	6.7%	8.8%
TE(Whitelisted index)	6.7%	4.6%	0.0%	6.3%
TE(BBG EM ex China index)	5.3%	0.0%	4.6%	7.1%



### AQR AND FAMA-FRENCH FACTOR EXPOSURE

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

XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	-2.4%*	-10.1%***
SMB	6.8%	11.4%**
HML	17.1%***	18.8%***
UMD	-4.3%*	-4.5%*
QMJ	10.2%**	14.3%**
BAB	6.9%**	4.8%
Alpha	-1.6%	0.6%
R²	8%	19%

Factors are on AQR Pacific universe. Value (HML), momentum (UMD), size (SMB) 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%.

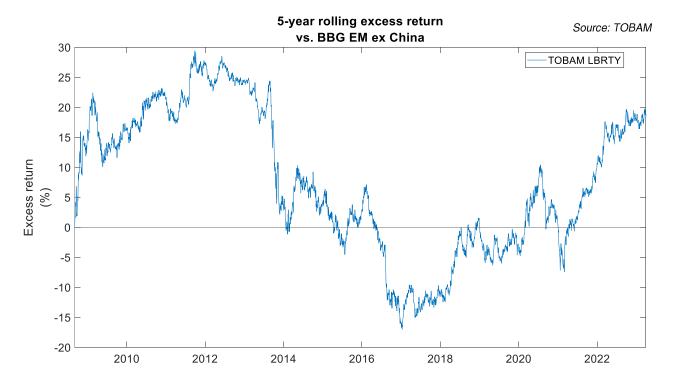
Fama-French XR regression	Whitelisted Benchmark	TOBAM LBRTY
Market	1.4%	-11.9%***
SMB	18.8%**	25.5%**
HML	14.4%*	14.7%
RMW	2.3%	2.7%
CMA	28.5%***	30.7%***
WML	3.7%	3%
Alpha	-2.1%	0.2%
R²	17%	31%

Factors are on Emerging market universe. Value (HML), momentum (WML), size (SMB), Quality(CMA & RMW) \*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%.



#### 5-YEAR ROLLING EXCESS RETURNS

VS BBG EM EX CHINA - EM

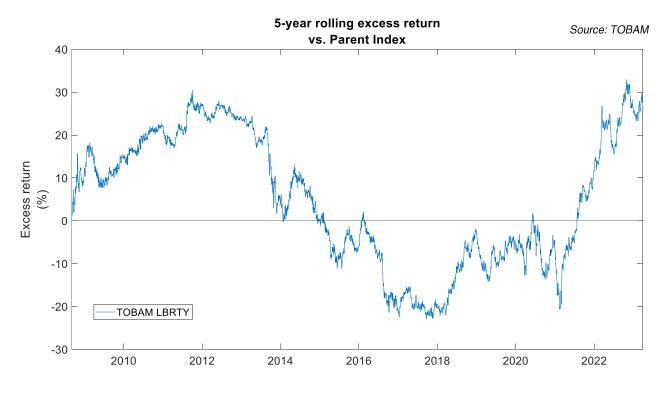


5 Years Statistics	BBG EM	BBG EM ex China	Whitelisted Benchmark	TOBAM LBRTY
Annualized Gross return	0.6%	2.2%	1.6%	6.3%
Annualized Net return	0.6%	2.2%	1.1%	5.9%
Vol	17.1%	16.9%	17.1%	15.8%
Sharpe ratio	-0.04	0.05	-0.01	0.29
Beta to Mkt	1.00	0.89	0.86	0.77



#### 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	0.6%	2.2%	1.6%	6.3%
Annualized Net return	0.6%	2.2%	1.1%	5.9%
Vol	17.1%	16.9%	17.1%	15.8%
Sharpe ratio	-0.04	0.05	-0.01	0.29
Beta to Mkt	1.00	0.89	0.86	0.77



### 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 - Mar 2023	Tracking error attribution vs. <b>Parent Index</b>		Tracking error attribution vs.  Whitelisted Benchmark	
Risk factor	TCR	PCR	TCR	PCR
Market	1.6%	17.9%	0.7%	11.7%
Authoritarian countries	0.7%	7.8%	0.0%	0.0%
Indirect exposure	4.2%	47.9%	1.5%	23.3%
Sector	0.8%	8.9%	1.1%	17.5%
Residuals	1.5%	17.5%	3.0%	47.5%
Total	8.8%	100.0%	6.3%	100.0%

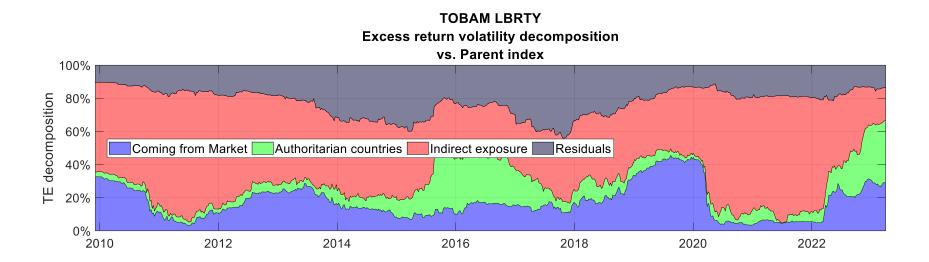
TCR = Total contribution to tracking error

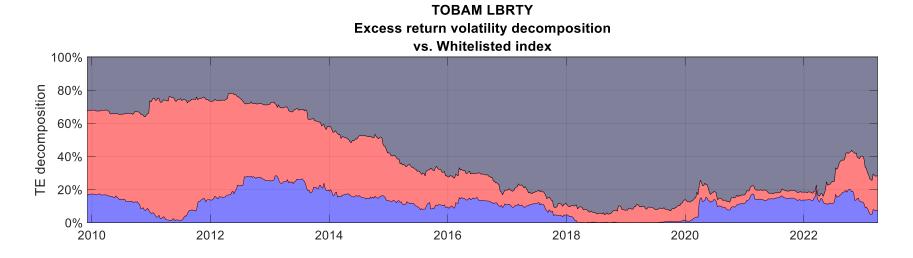
PCR = Percentage contributions to tracking error

Source: TOBAM



## TOBAM LBRTY TRACKING ERROR DECOMPOSITION

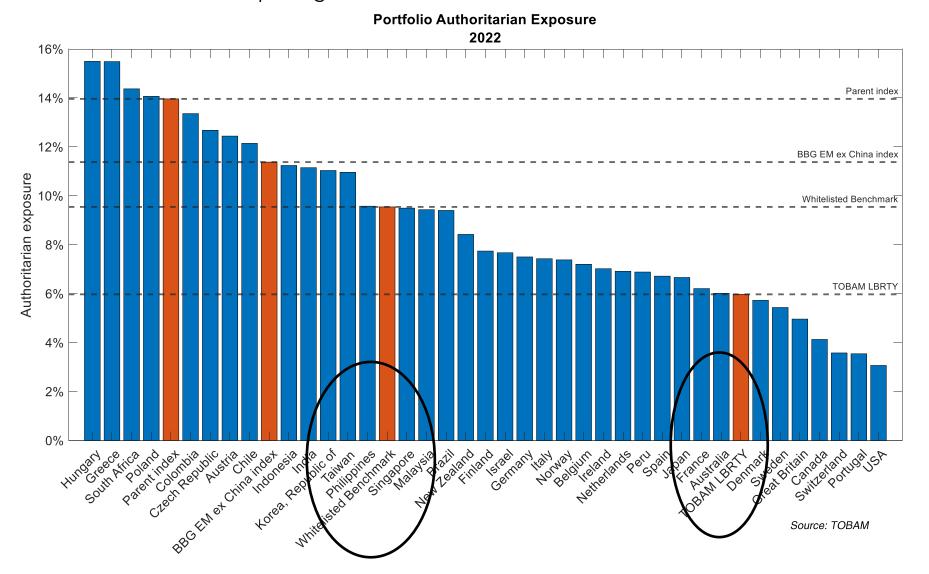






## ELIGIBLE COUNTRY BENCHMARKS AUTHORITARIAN EXPOSURE AVERAGE 2022

TOBAM EM LBRTY portfolio has an authoritarian exposure in 2022 comparable to the Denmark Market Cap Weighted Benchmark.





#### EXCESS RETURN VS BBG EM EX CHINA

PERFORMANCE ATTRIBUTION BY COUNTRY - EM



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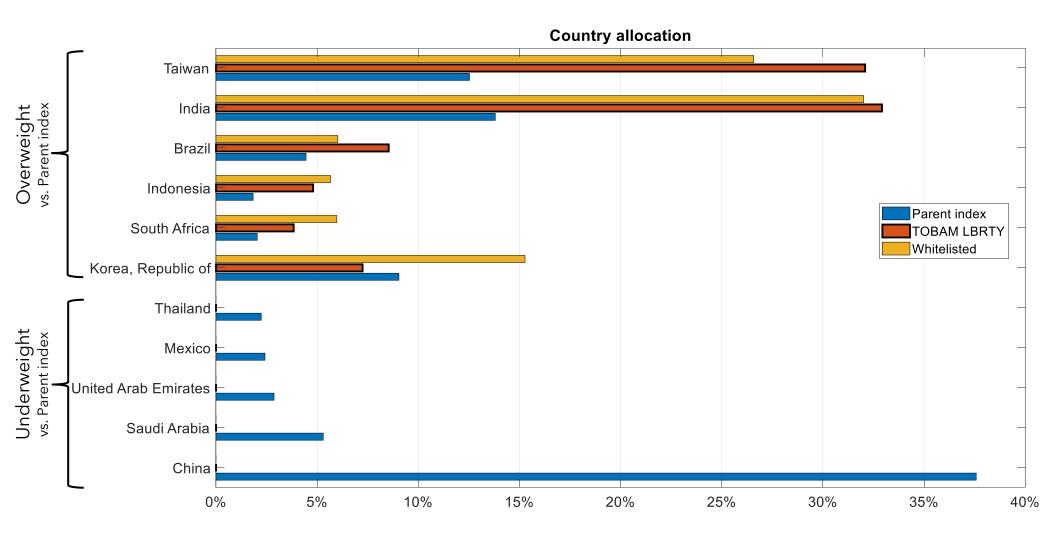
#### **EXCESS RETURN VS PARENT INDEX**

PERFORMANCE ATTRIBUTION BY COUNTRY - EM



## EM PORTFOLIOS COUNTRY WEIGHTS AVERAGE 2023



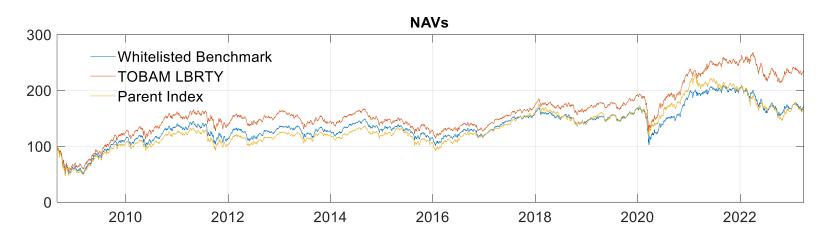


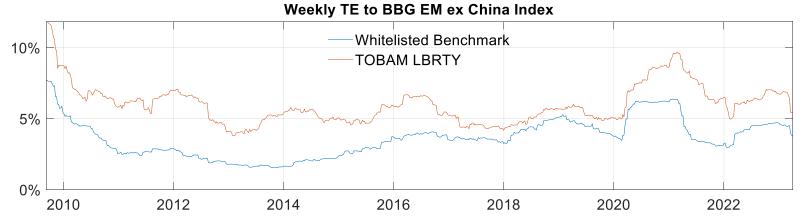
Source: TOBAM, Bloomberg

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



## NAVS AND TRACKING ERRORS



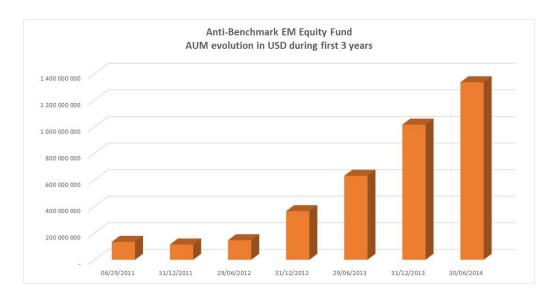


Source: TOBAM

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## TOBAM TRACK-RECORD IN SEEDING (EXAMPLE 1/2) ANTI-BENCHMARK EM EQUITY



# Seeding rationale: long-term strategic investment in a strategy in order to outperform the benchmark

- Initial seeding of \$135m by leading Nordic pension Structure in June 2011
- Structure AUM > \$1.3Bn in 3 years
- Strong relative performance and riskadjusted performance vs. Benchmark
- Seeder still invested in the strategy 10year+ after launch

Sources: TOBAM, Bloomberg. Returns reflect live data from 29/06/2011 to 30/06/2016.

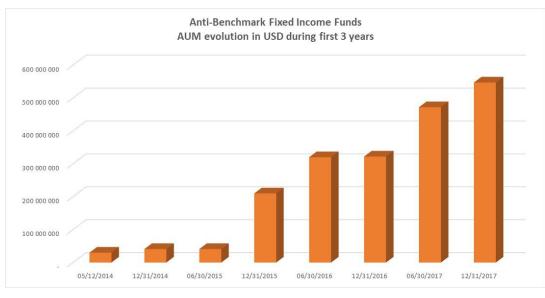
Warning: Past performance is not an indicator or a quarantee of future performance. The value of your investment and income received from it can go down as well as up and you may not get back the full amount invested. Performance details provided are in USD. Performance returns and/or charts illustrating 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 onemonth USD LIBOR rate. TOBAM AB EM equity fund net performance since inception is -10.43%.



Return:	-5.83%		
Annualized return:	-1.19%		
Hist vol:	14.05%		
Sharpe ratio:	-0.10		
Sortino ratio:	-0.16		
Downside volatility:	8.92%		
ISCI Daily TR Net Emer	ging Mar	ket	S
Return:	-16.55%		
Annualized return:	-3.55%		
Hist vol:	17.05%		
Sharpe ratio:	-0.22		
Sortino ratio:	-0.36		
Downside volatility:	10.61%		
xcess return:	10.72%	$\Box$	
ol reduction:	-17.54%		
xcess annual. return:	2.36%	ل	
racking error:	6.20%		
nfo ratio:	0.38		
leta:	0.77	г² 8	88.08%
orrelation:	93.85%		
ensen's alpha:	6.72%		
reynor ratio:	-0.02		



## TOBAM TRACK-RECORD IN SEEDING (EXAMPLE 2/2) ANTI-BENCHMARK FIXED INCOME



# Seeding rationale: short-term allocation to facilitate the launch of TOBAM's first steps in fixed income

- Initial seeding of \$30m by the largest European asset manager, also shareholder of TOBAM
- Structures AUM > \$500m in 3.5 years
- Seeder exited after 18 months with 35% absolute performance in EUR terms.
- Strategy delivered a solid absolute and relative track-record vs. Benchmark

Sources: TOBAM, Bloomberg. Returns reflect live data from 16/05/2014 to 12/05/2017. Warning: Past performance is not an indicator or a quarantee 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 charts illustrating and/or 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 onemonth USD LIBOR rate. TOBAM AB Global IG fund performance since inception is 12.51%.



Return:	13.53%
Annualized return:	4.32%
Hist vol:	3.59%
Sharpe ratio:	1.10
Sortino ratio:	1.83
Downside volatility:	2.15%
Global IG Custom Bench	nmark
Return:	11.67%
Annualized return:	3.75%
Hist vol:	3.48%
Sharpe ratio:	0.97
Sortino ratio:	1.57
Downside volatility:	2.14%
Excess return:	1.85%
Vol reduction:	3.02%
Excess annual. return:	0.57%
Tracking error:	1.64%
Info ratio:	0.35
Beta:	0.92 r <sup>2</sup> 79.76%
Correlation:	89.31%
Jensen's alpha:	2.70%
Trevnor ratio:	0.04



## SEEDING PROPOSAL OBJECTIVE AND CHARACTERISTICS

#### **Objective:**

Accelerate the development of TOBAM's strategies via the seeding of open-ended structures.

#### **Benefits for the seeder:**

Early exposure to innovative strategies at a discounted cost (50%) Participation in the Structure's revenues

#### **Economics:**

Seed target: \$100m/Structure

Revenue participation: 20% of the Structure's total net fees over 3 years

Seeder participation rate = (seeding amount in USD m)  $/ 100 \times 20\%$ 

Conditions to the revenue sharing:

Subscription within the first \$100m No redemption in the first 24 months

#### Indicative fees for non seeders:

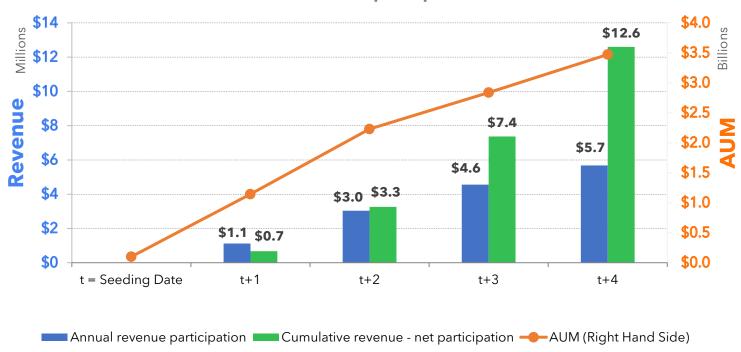
0.90%



## SEEDING PROPOSAL SIMULATION OF "ALPHA" GENERATED

Date	Annualised "Alpha" Generated from Seeding
t = Seeding Date	
t+1	0.7%
t+2	1.6%
t+3	2.4%
t+4	3.0%

#### **Revenue participation**



- Introduction to TOBAM and Anti-Benchmark
- 2 Investment Philosophy The case for **C**ivil and **D**emocratic Rights
- Measuring Civil and Democratic Rights and portfolio construction
- 4 Empirical results
- 5 Seeding Proposal
- 6 Conclusion
- Appendix

#### CONCLUSION



- Since its inception, TOBAM's ONLY focus is the long-term risk reward of its clients
- We believe that, apart from diversification, each of Democracy, Respect of Human Rights and civil rights in general are the Keys to innovations and economic growth
- Therefore, since its beginnings TOBAM had sustainable development and human rights at the core of its values. Our clients take a long-term approach to investing and our sustainable approach responds to investors' need to manage their investment with the same long-term view

#### TOBAM LBRTY

Tracking error managed portfolio with exposure to Civil and Democratic Rights handled at the

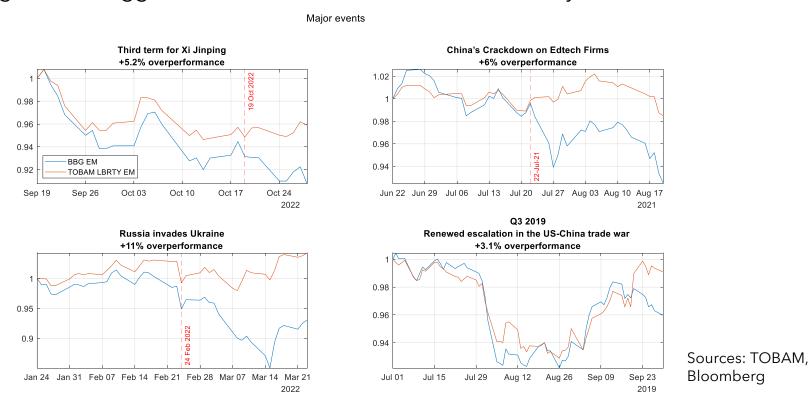
- country level, via exclusion of authoritarian & hybrid regimes
- stock level, via minimization of exposures to authoritarian regimes

- Introduction to TOBAM and Anti-Benchmark
- 2 Investment Philosophy The case for **C**ivil and **D**emocratic Rights
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# 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.



## 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 CD	TOBAM LBRTY excess	Events	Geopolitical event
Jun-18	-3.8%	0.3%	return 4.2%	China-US trade tensions ratcheted up	V
Juli-10			4.4/0		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	х
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	х
Jul-22	-0.2%	4.2%	4.4%	China was the worst index performer (bad economic release)	x
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.



## INVESTMENT PROCESS: TRACKING ERROR CONSTRAINT AND LIQUIDITY

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

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

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

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



### 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.



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.



# NOT ELIGIBLE COUNTRIES 2022



Blacklisted Countries	TOBAM Civil Liberty and Democracy Index
Saudi Arabia	3.11
China	3.45
Bahrain	3.51
Egypt	3.88
Qatar	3.89
United Arab Emirates	4.04
Turkey	4.62
Kuwait	4.74
Pakistan	4.80

Source: TOBAM

In 2022, 9 Countries would not be eligible in our investible universe for a total of 51 covered countries.



# COUNTRIES UNDER THE GOVERNANCE COMMITTEE WATCHLIST 2022

Whitelisted Countries but subject to governance committee	TOBAM Civil Liberty and Democracy Index
Hungary	6.46
Brazil	6.43
India	6.33
Indonesia	6.15
Peru	6.13
Colombia	6.09
Philippines	6.07

Blacklisted Countries but subject to governance committee	TOBAM Civil Liberty and Democracy Index
Hong Kong	5.77
Mexico	5.62
Thailand	5.61

Source: TOBAM

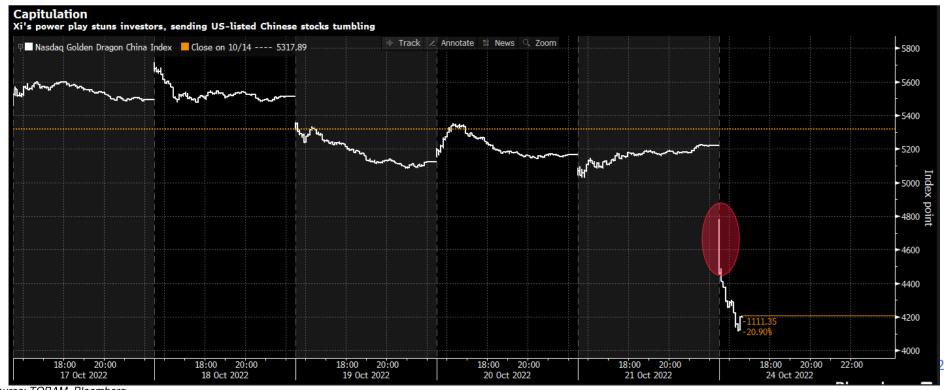
In 2022, 10 countries would have been studied by our governance committee:

- 3 would have been a priori blacklisted\*
- 9 a priori eligible for our investment universe but under the approval of the governance committee.



#### 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 24<sup>th</sup> 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.



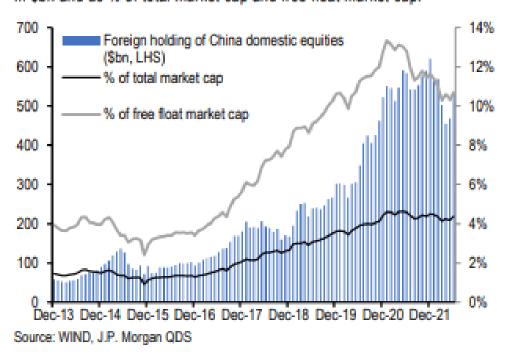
Source: TOBAM, Bloomberg



### 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.

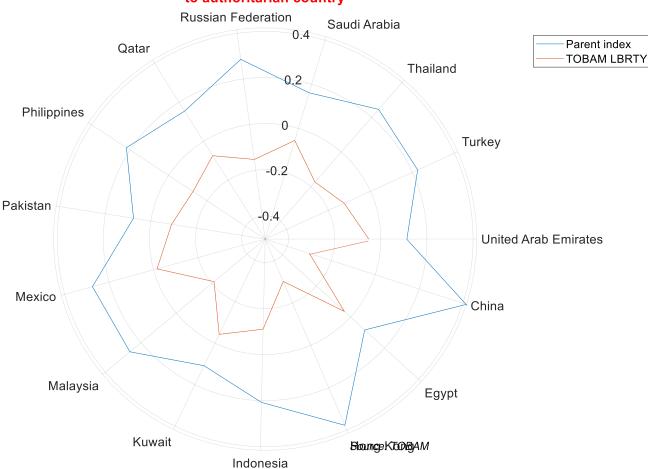




# PORTFOLIOS UNIVARIATE CORRELATIONS (DEMOCRATIC WORLD BETA ADJUSTED 2008-2023)

Univariate Portfolio's partial correlations to authoritarian country

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

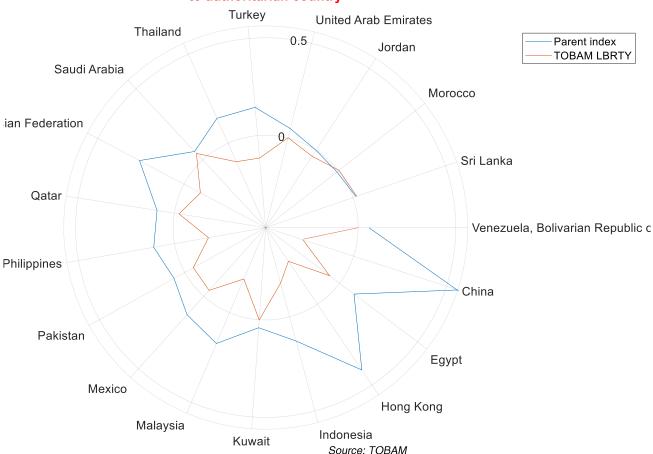




# PORTFOLIOS UNIVARIATE CORRELATIONS (DEMOCRATIC WORLD EX USA BETA ADJUSTED 2008-2023)

## Univariate Portfolio's partial correlations to authoritarian country

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

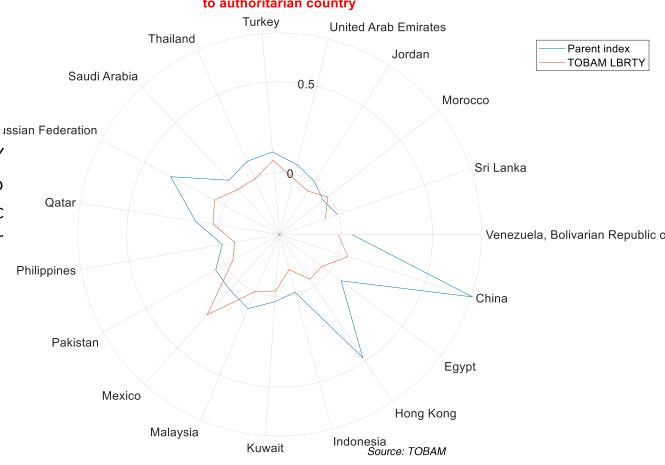




## PORTFOLIOS UNIVARIATE CORRELATIONS (DEMOCRATIC EM BETA ADJUSTED 2008-2023)

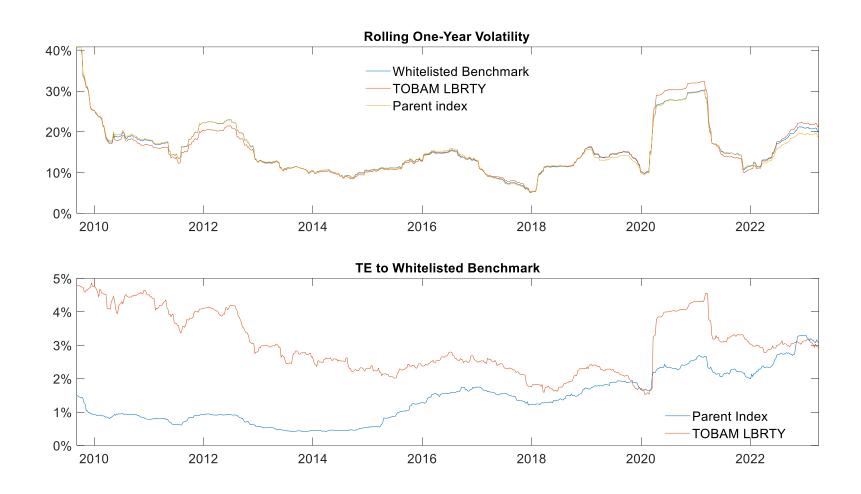
## Univariate Portfolio's partial correlations to authoritarian country

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

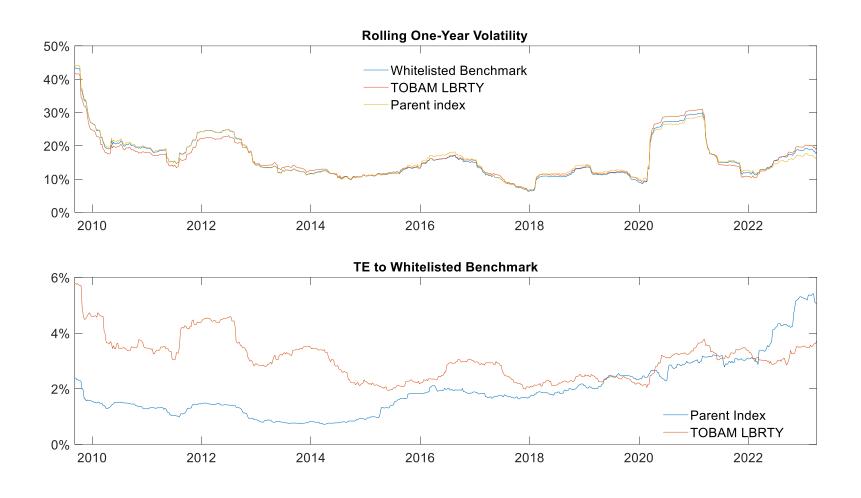


Source: TOBAM



### **VOLATILITIES AND TRACKING ERRORS**

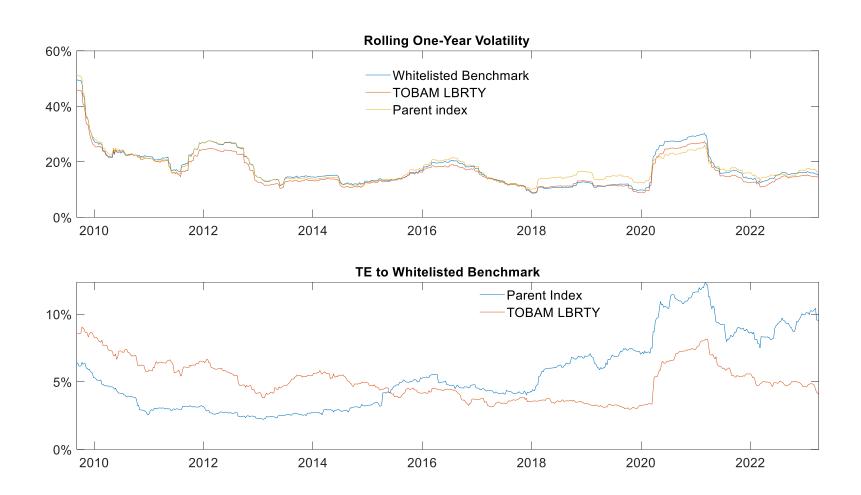
WORLD EX USA (INCLUDING EM)



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.

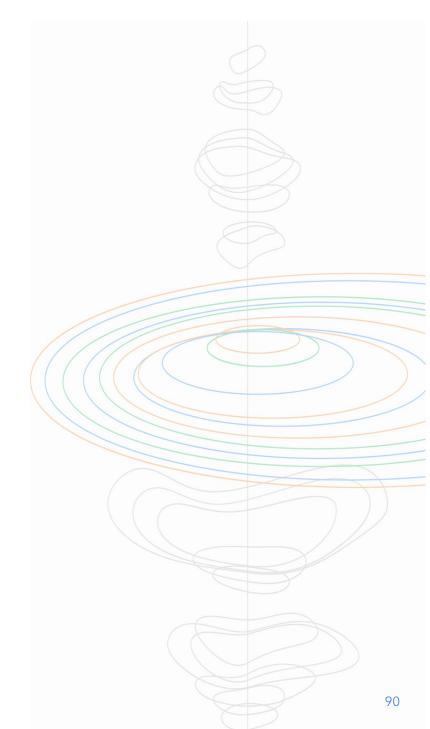
In line with its mission statement and commitment to diversification, TOBAM also launched a separate activity on cryptocurrencies in 2017.

TOBAM manages approx. US\$6 billion (at December 30, 2022). TOBAM's team is composed of 47 professionals.

For more information, visit www.tobam.fr

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