

# Passive Management: the perfect oxymoron?

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*Presentation by Yves Choueifaty,  
President & CIO of TOBAM*



# TOBAM: Who are we?

## The company:

TOBAM is independent and employee-owned

- Created in 2005
- CalPERS became a minority shareholder in April 2011,
- Amundi became a minority shareholder and a distribution partner in May 2012

TOBAM manages over \$8.8 billion (March 31, 2015) primarily for large, well-known pension funds. Its team includes 35 financial professionals, complemented by Third Party Marketers.

TOBAM provides the “Most Diversified Portfolio” via full diversification and neutral risk allocation  
TOBAM’s flagship Anti-Benchmark® strategies, supported by original research and a mathematical definition of diversification, provide clients with diversified core equity exposure, both globally and in domestic markets.

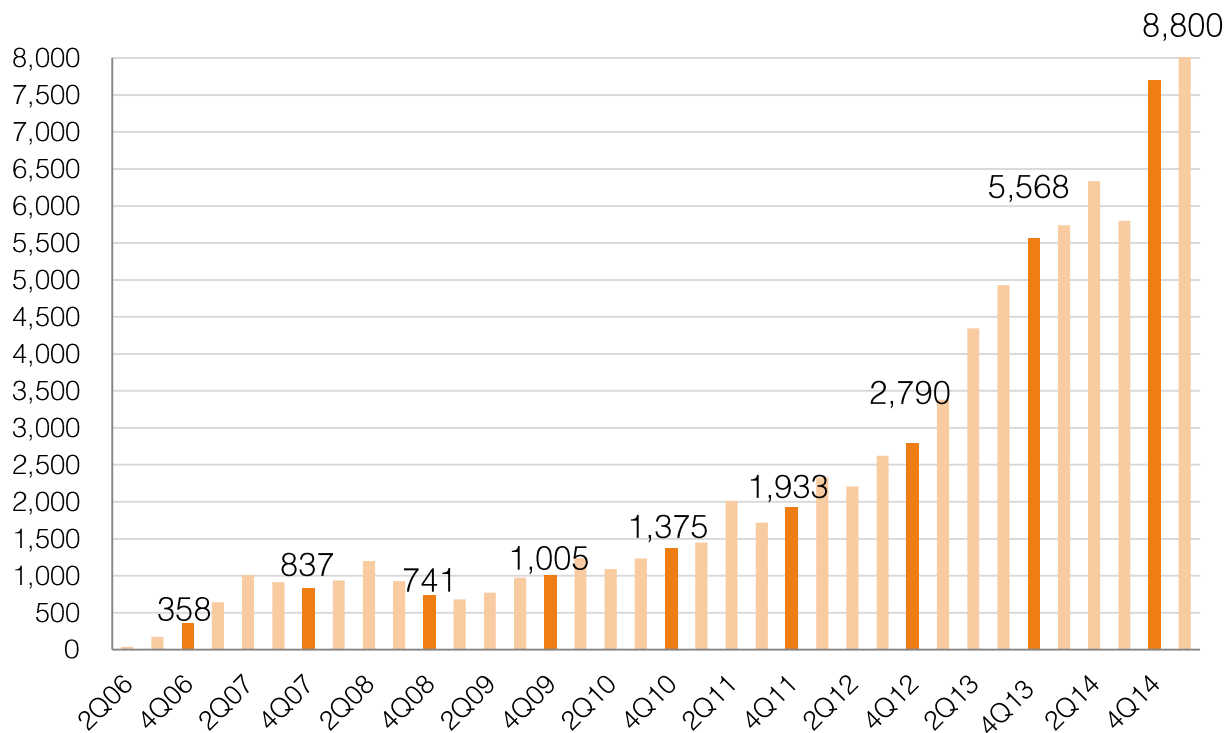
## The founder:

**Yves Choueifaty, President & CIO (24 years investment experience), previously:**

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

# AUM & Strategies

TOBAM Anti-Benchmark Strategy - Quarterly AUM (US\$ 000, 000)



- TOBAM only manages Anti-Benchmark® strategies
- The Anti-Benchmark® strategy has been live since June 2006

## Available strategies

### Regional Equities

- Anti-Benchmark Canada Equity
- Anti-Benchmark Euro Equity
- Anti-Benchmark Europe Equity
- Anti-Benchmark France Equity
- Anti-Benchmark Japan Equity
- Anti-Benchmark Pacific Equity
- Anti-Benchmark Pac ex-Japan Equity
- Anti-Benchmark UK Equity
- Anti-Benchmark US Equity
- Anti-Benchmark US Next Equity
- Anti-Benchmark North America Equity

### Global Developed & EM Equities

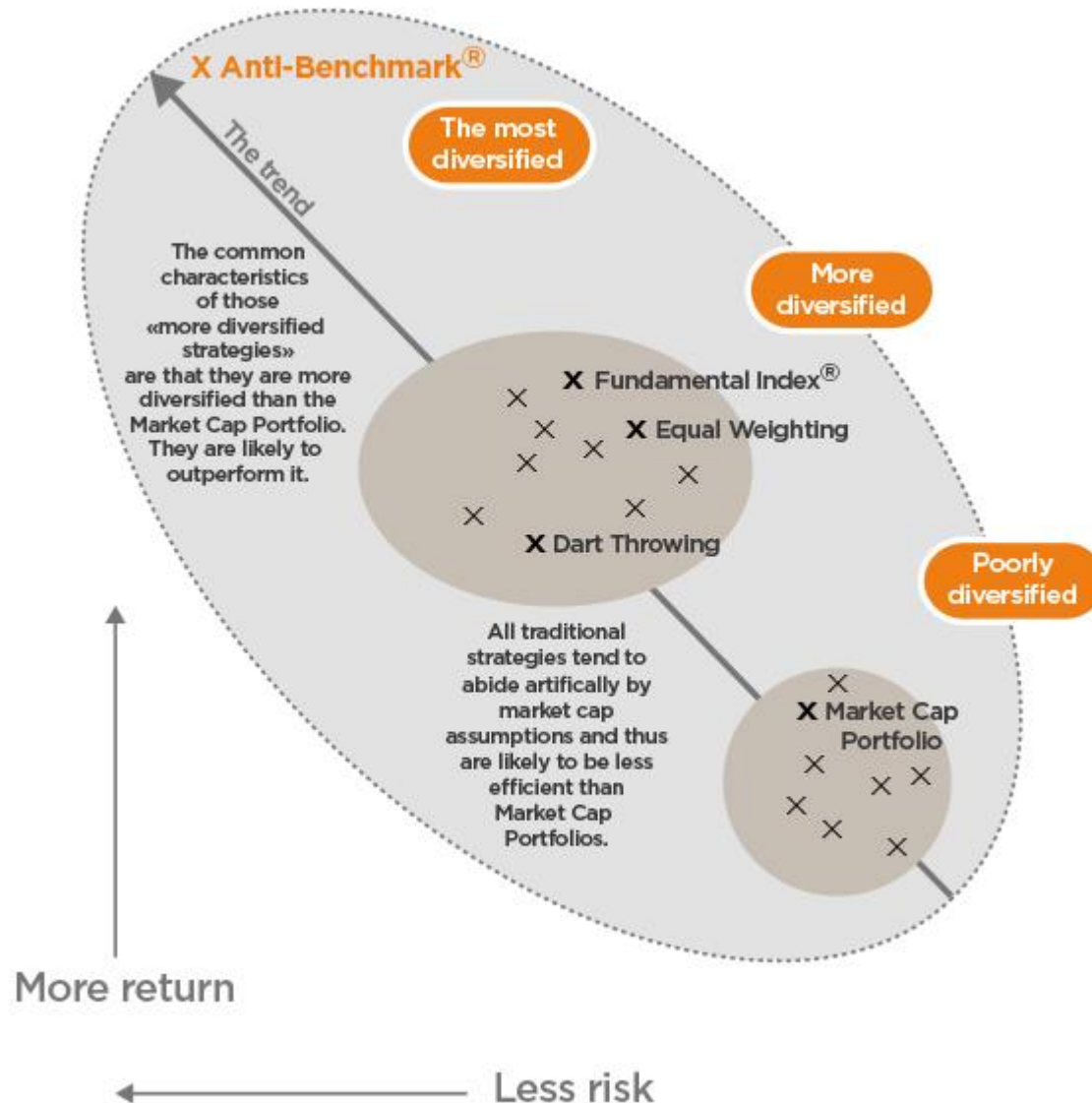
- Anti-Benchmark Global Equity
- Anti-Benchmark World Equity
- Anti-Benchmark Emerging Markets Equity
- Anti-Benchmark All Countries World Equity

### Fixed Income

- Anti-Benchmark US Credit

Source: TOBAM, figures as of December 31, 2014

# From Market Cap-weighted benchmarks to “Smart Beta”



Source: TOBAM. The above chart is for illustrative purposes only.



# Agenda

- \* Why is passive management not the solution?
- \* The real cost of passive management
- \* Why invest in equities ? : intro to a general framework
- \* The Anti-Benchmark<sup>®</sup> approach

# Why is passive not the solution?

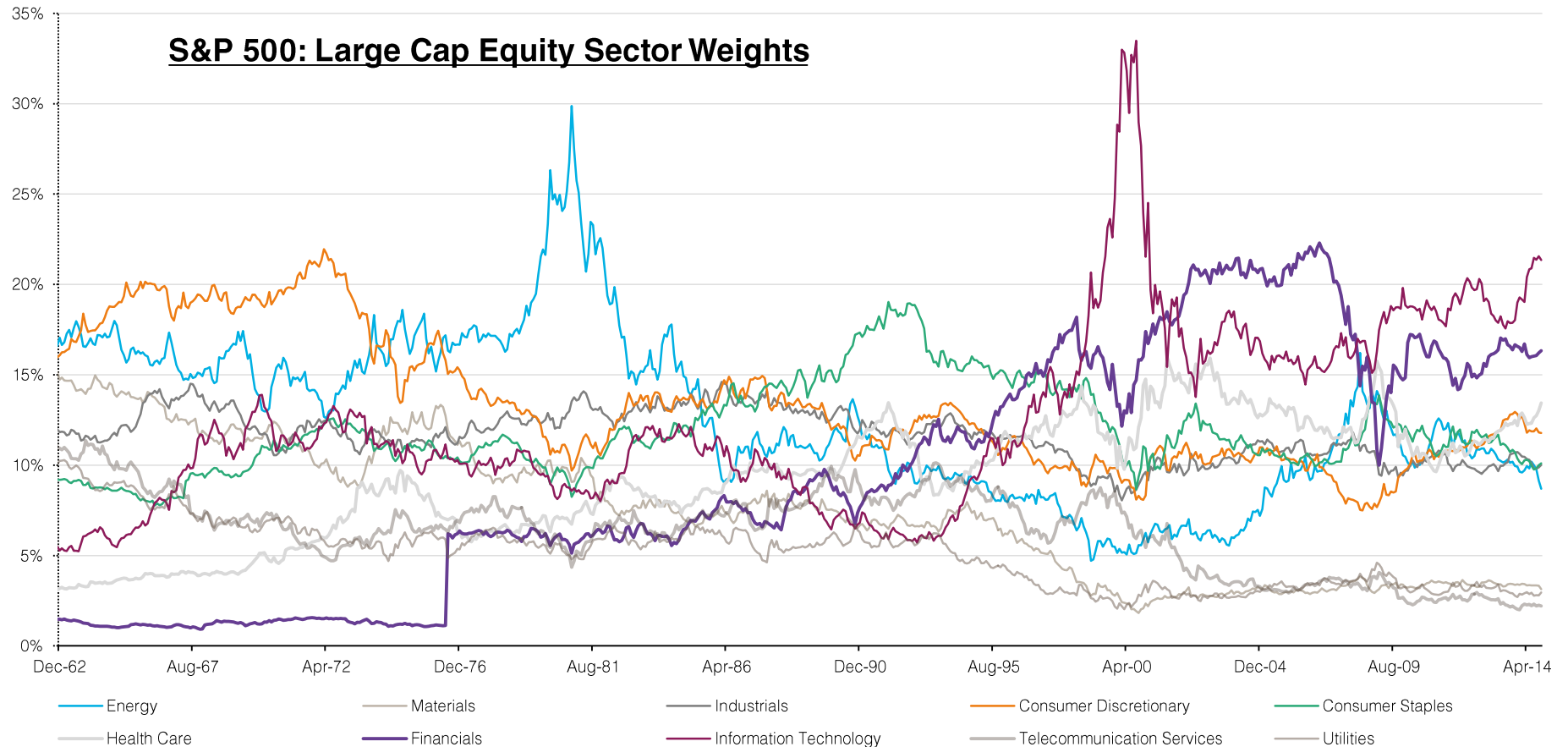
How can you be “Passive” and “Manage”?

- Being Passive = you do not manage
- Being Passive = Passively implementing an inefficient strategy:  
=> Market cap-weighted benchmarks

# Why is passive not the solution?

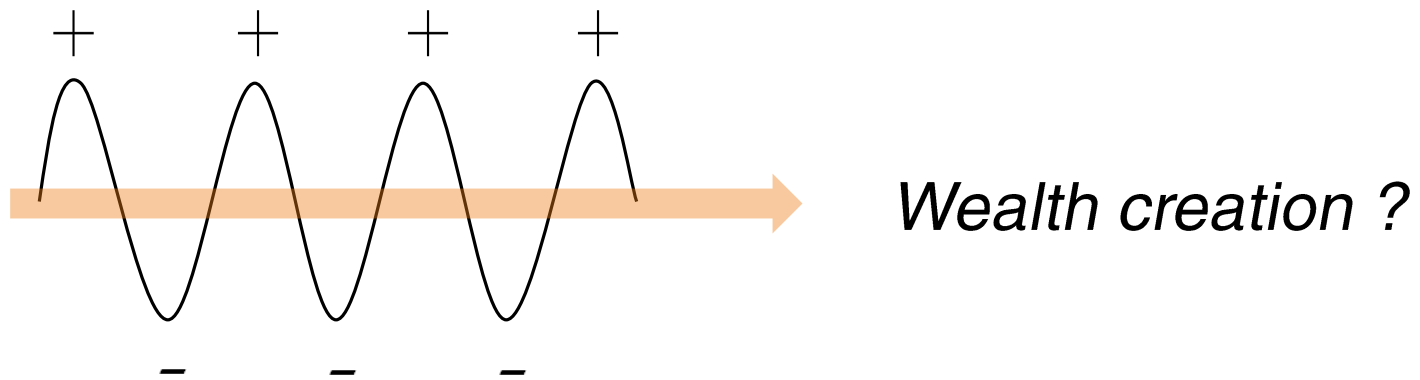
## Cap-weighted indices take on heavy structural biases...

- 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



## ...which can destroy value...


- Market benchmarks allocate risk dynamically over time and as such are not truly diversified:



- The market cap-weighted benchmark can also be described as a Dynamic Risk Allocator



# The Big Misunderstandings

- Passive is not neutral
- The CAPM in a way proves it is “undoubtedly unrealistic” to believe that the Benchmark could ever be efficient
- The term “Efficient” is used in 2 different contexts:
  -  An efficient portfolio
  - An efficient Market
- The market cap-weighted benchmark
  - is a Dynamic Risk Allocator
  - is an output of our industry
  - is harmful for the investors and for the economy.

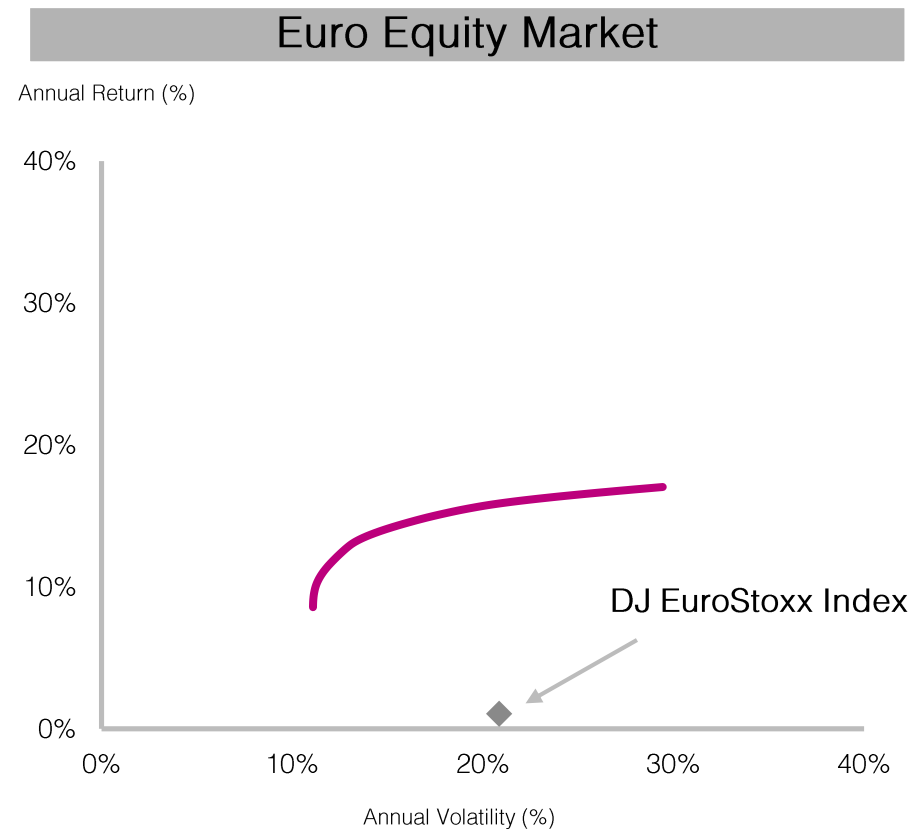
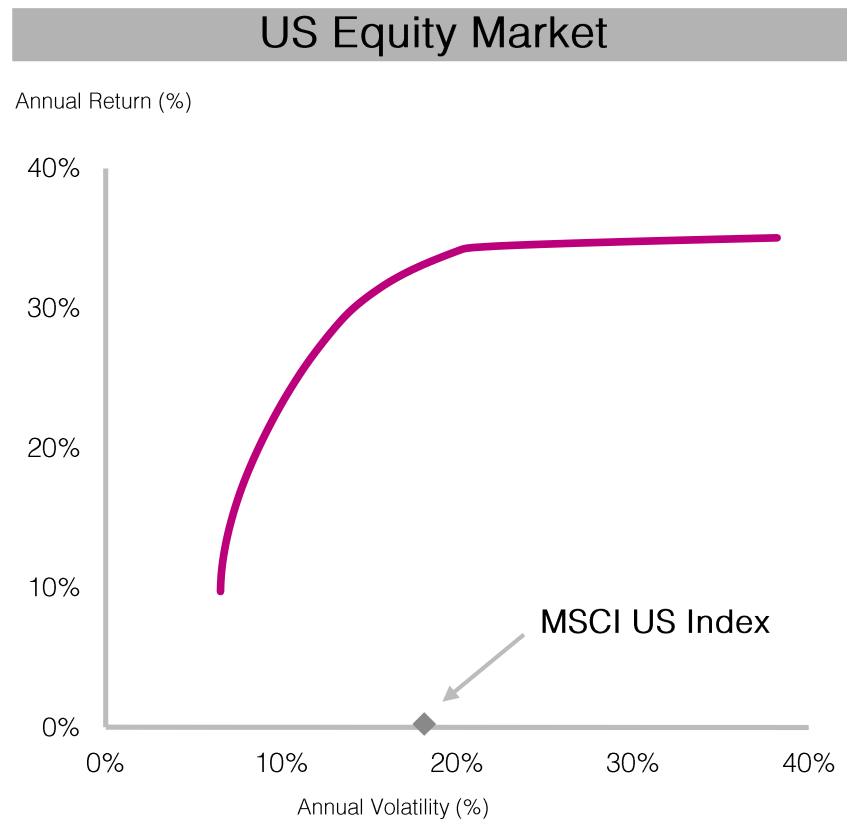


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# Across geographies and across time

Empirical evidence across  
all geographical zones over mid to long-term investment periods:  
(data from May 2001 to May 2006)



Source : Factset. All returns are stated in local currency. MSCI and DJ EuroStoxx indices are net of dividends.

# The real cost of passive management

- From “**wrongly rewarded fees**”:
  - you want an efficient market
  - you want a healthy and growing economy
  - I want to fly New York-Paris not New York-New York
  - *Matt XXV: 14-30 The Parable of the Talents*
- To “**unrewarded (because unmanaged and undiversified) risk**” : Market cap-weighted benchmarks are hugely biased:
  - a dynamic risk allocator
  - Fail to be “close” to the efficient frontier ex-post



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# Why invest in equities?

## *The search for the beta*

Why are long-term investors investing in equities?

- Not only because they believe portfolio managers are skilled
- But because of a widely held investment belief:

 Equities should reward the risk over the long-term

# 2 sources of risk reward in equity markets

## The Financial Sphere

Taking advantage of:

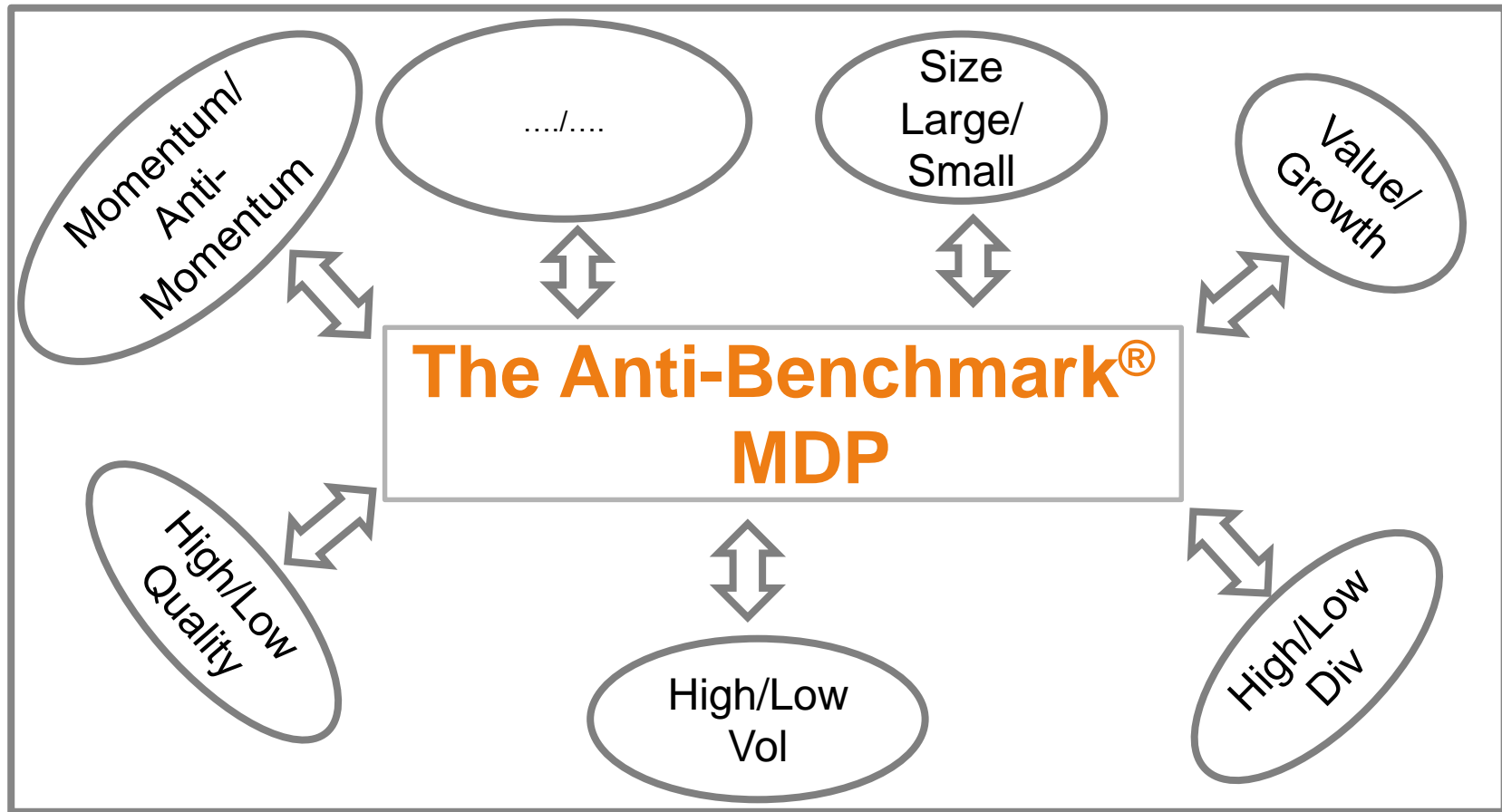
- arbitrage opportunities
- mispricings
- Forecasting capabilities
- Speculation

## The Real Economy Sphere

“The Equity Risk Premium”  
(ERP)

Delivered by the Most  
Diversified Portfolio

# Implementation, our views



Core / Satellite approach with the MDP as Core investment





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# What is Anti-Benchmark®?

Anti-Benchmark® : a quantitative investment approach based on a unique principle – seeking maximum diversification

The Anti-Benchmark® portfolio objective: outperform the market cap index with less risk, by maximizing diversification

- Definition of a mathematical measure of a portfolio's diversification: the *Diversification Ratio*® (patented),
- Set up of an investment process that maximizes this *Diversification Ratio*®,
- Long-only, no leverage and fully invested

# The Anti-Benchmark<sup>®</sup> defines and maximizes diversification



- The Anti-Benchmark<sup>®</sup> aims to deliver broad equity market exposure that provides superior performance with lower risk
- Anti-Benchmark<sup>®</sup> attempts to capture the full equity market risk premium
- We believe the higher returns result from better capturing the risk premium

# Anti-Benchmark<sup>®</sup>: the neutral risk allocator

The Anti-Benchmark<sup>®</sup>:

- neutrally allocates risk to the effective independent sources of risk,
- is the undiversifiable portfolio,
- provides a theoretical definition of the equity risk premium

# What is Diversification?

Diversification is the “magic” by which combining a set of non-fully correlated assets always results in a portfolio whose risk is lower than the weighted average of the single assets’ risks:

Risk of the combination  $<$  Combination of the risks

$$\sigma_{(80\% A + 20\% B)} < 80\% \sigma_A + 20\% \sigma_B$$

$$\Leftrightarrow \rho_{A,B} \neq 1$$

# Definition of the Diversification Ratio<sup>®</sup>

TOBAM's unique Diversification Ratio<sup>®</sup> is the tool to measure the diversification of any portfolio P:

$$DR(P) = \frac{\text{Combination of Risk}}{\text{Risk of the Combination}}$$
$$= \frac{(w_1\sigma_1 + w_2\sigma_2 + \dots + w_n\sigma_n)}{\sigma_P}$$

The weighted average of stock volatilities

Portfolio Volatility

*The Diversification Ratio<sup>®</sup> has NO bias toward high or low volatility stocks.*

# Conclusion

- Market-cap weighted indices are not diversified
- Market-cap weighted indices are not efficient from a risk/reward perspective
- Market-cap weighted indices are dangerous for investors and for the economy when used as an input

## Cost-effective alternatives exist that can:

- Minimize exposure to ‘unrewarded risk’
- Better capture the ERP via the undiversifiable portfolio

After accounting for fees, strategies that optimize risk/reward can offer superior ‘value’ compared to inefficient and undiversified strategies

# A Lesson of Life

If you cannot forecast, you should only diversify



Tyrannosaurus Rex



Crusafontia  
*(prehistoric mammal)*



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