NORTHERN TRUST ASSET MANAGEMENT

# ESG Integration: a Risk-Return trade off?

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Julia Kochetygova

Senior ESG Research Analyst



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### NORTHERN TRUST: A GLOBAL LEADER IN ASSET MANAGEMENT

Providing innovative solutions to meet client objectives has earned the confidence of global investors.

#### IPE TOP ASSET MANAGER RANKING

Worldwide Assets<sup>1</sup> 13<sup>TH</sup> LARGEST **Factor Investing ESG** Worldwide External Institutional Leaders in factor-based 25+ Years Experience Managing Socially Responsible Portfolios investing since 1994 **Client Assets**<sup>2</sup> Best Smart Beta Strategies<sup>2</sup> **UNPRI Signatory** 9<sup>TH</sup> LARGEST **Sovereign Entities** Efficient Market Liquidity 2<sup>ND</sup> LARGEST Exposure Solutions **Pension Funds** Skilled management of 5<sup>TH</sup> LARGEST 5<sup>th</sup> Largest cash manager for exposures and customized external clients solutions across asset classes **Central Banks** 3<sup>RD</sup> LARGEST **Actively Managed Assets Innovative Product Structures** 15<sup>th</sup> LARGEST **Passively Managed Assets** Leader in efficient product structures for European investors 4<sup>TH</sup> LARGEST Common Contractual Funds (CCF) Fonds vor Gemene Rekening (FGR) **ESG** Assets 13<sup>TH</sup> LARGEST Unless otherwise noted, rankings are based on Investments & Pensions Europe June 2016 Top 400 Asset Managers Survey, assets managed for external clients.

<sup>1</sup>Worldwide assets under management. <sup>2</sup>Asia Asset Management, 2015. <sup>3</sup>*Pensions & Investments* magazine's 2016 Special Report on the Largest Money Managers. <sup>4</sup>Assets under management as of 9.30.16. <sup>5</sup>*Pensions and Investments as of March* 31, 2016 The above rankings are not indicative of future performance.

### **ESG INVESTMENT STRATEGIES**

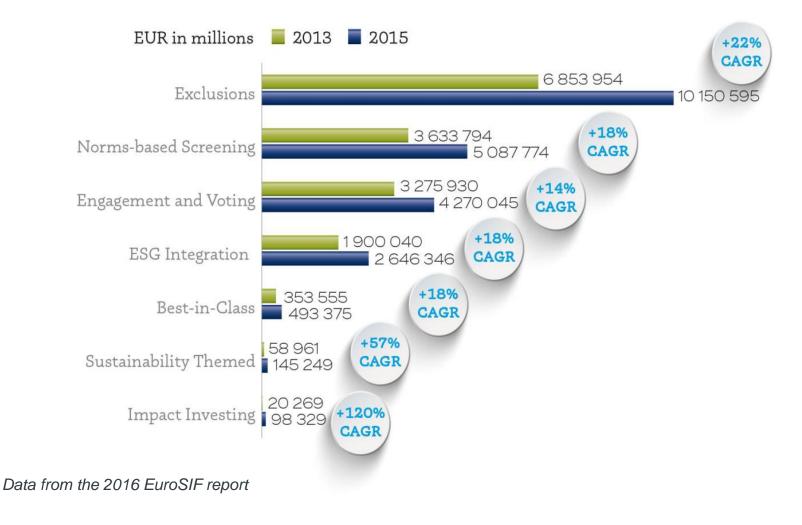
ESG can be implemented using the strategies below:

#### Sophistication of ESG strategy

Negative Screening	Norm Based	Best in class	ESG Integration	Thematic investing	Impact Investing
<b>Exclusion</b> of stocks in <b>specific industries</b> or geographic areas	<b>Exclusions</b> based on <b>standards</b> such as the UN Global Compact	Strategies which select or <b>overweight</b> <b>companies</b> that are sector leaders in <b>ESG</b> <b>performance</b>	Incorporating ESG considerations across business activities and investments	<b>Investing</b> in specific <b>ESG</b> <b>themes</b> example: low carbon, green energy, water services	Investing in specific projects that are expected to meet a social or environmental goal

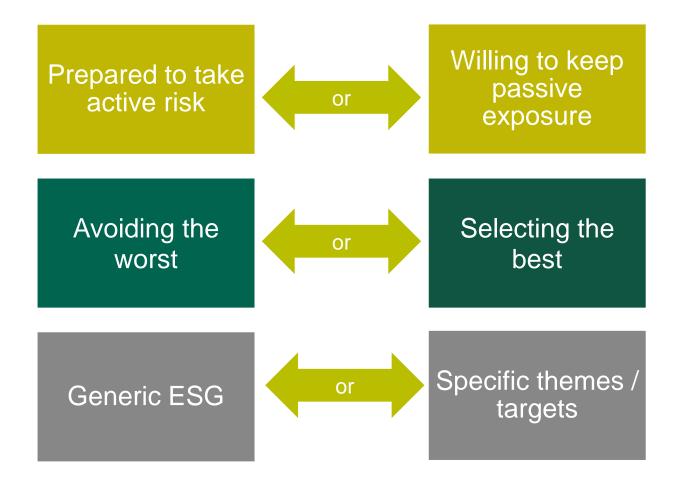
## **ESG INVESTING IN EUROPE**

EuroSIF conducts studies every two or three years, where it asks investors about their sustainable investing strategies and calculates CAGR for different types



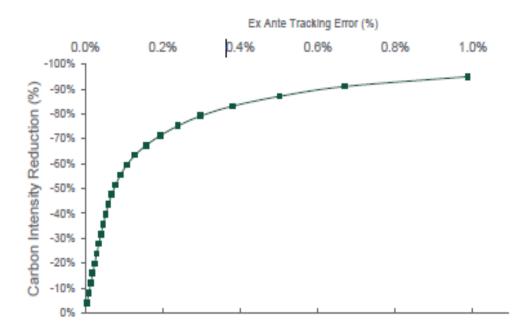
#### DIFFERENCES IN ESG APPETITES DRIVE CHOICES IN ESG INVESTING (PASSIVE AND ENGINEERED EQUITY)

ESG investing forms and tools can vary depending on the overall investment strategies



### **"TRAGEDY OF TRACKING ERROR"**

Higher ESG effect always goes with higher active risk



As of March 31, 2016. Source: Northern Trust, MSCI. For illustrative purposes, we create a frontier of 25 portfolios that each minimizes tracking error for a given level of Carbon Intensity reduction (starting with zero reduction and ending with 95% reduction. No other constraints were applied.

What do you want to do? Depends on your risk tolerance. Two options:

1. Making a bet on ESG ("Smart Beta" approach)

2. Optimizing to reach maximum impact within a limited Tracking Error budget

### **CASE STUDY 1: GOVERNANCE SCREENS IN EMERGING MARKETS**

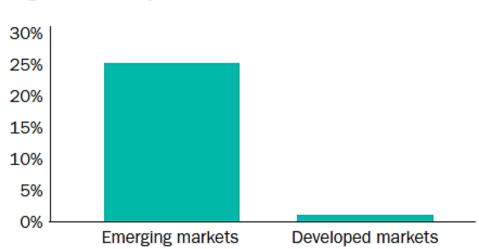
Current market environment, both challenging and volatile, has caused many investors to take a closer look at how they implement investment decisions in emerging markets.

#### Investor concerns:

Large controlling shareholders

Companies that are partly owned by state entities

Concerns about whether SOEs are always run for the benefit of all shareholders



#### Figure 02. Proportion of SOEs in market indices

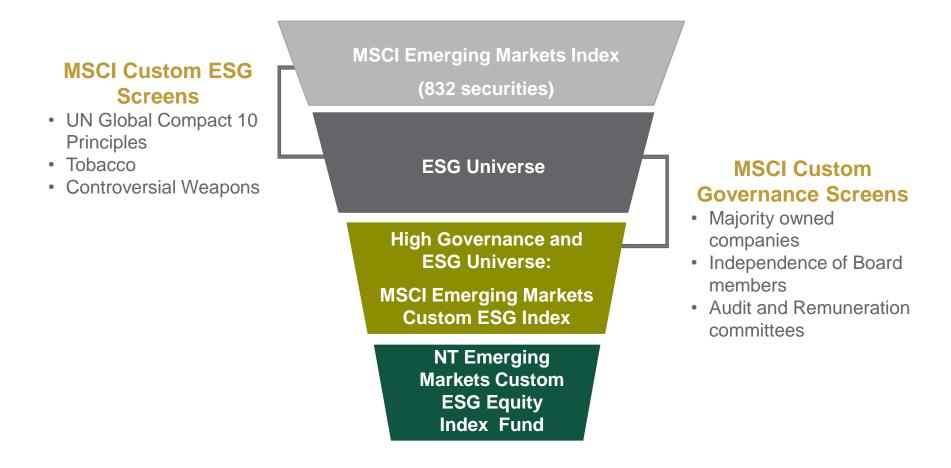
#### Share of state companies in market capitalisation

Source: \*http://www.towerswatson.com/en/Insights/IC-Types/Ad-hoc-Point-of-View/2014/02/Equity-investing-insights-into-a-better-portfolio

The case studies presented are intended to illustrate products and services available at Northern Trust. They do not necessarily represent experiences of other asset managers nor do they indicate future performance. Individual results may vary

### **GOVERNANCE SCREENS IN EMERGING MARKETS: PROCESS**

Methodology: The Northern Trust Emerging Markets Custom ESG Equity Index Fund goes through a six-step filtration process



### **NT EMERGING MARKETS CUSTOM ESG EQUITY INDEX (Q4 2016)**

Tracking Error Attribution					
ESG Screen	TE vs MSCI Emerging Markets				
Controversial Weapons	0.06%				
Global Compact	0.57%				
Tobacco	0.15%				
Governance	0.61%				
Combined Basket	0.95%				

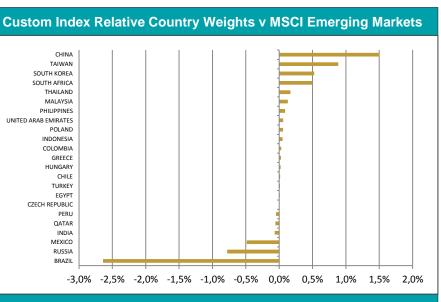
Index Holdings					
Emerging Markets ESG Index	780				
(Base Index)	(833)				

Screen Breakdowns						
ESG Screen	Stocks	% Base Index (Mkt Cap)	% Base Index (Stocks)			
Controversial Weapons	5	0.35%	0.60%			
Global Compact	15	3.03%	1.80%			
Tobacco	8	0.84%	0.96%			
Governance	25	2.71%	3.00%			
Combined Basket *	53	6.57%	5.76%			

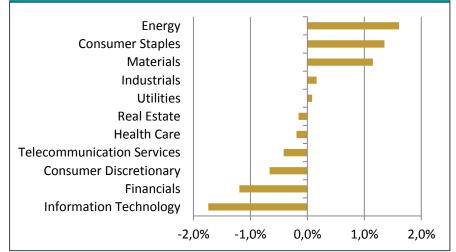
\* Securities may appear in more than one basket, which may lead to duplication.

Information is provided to illustrate typical sectors and securities in which the portfolio may invest and to reflect representative portfolio characteristics. It should not be considered investment advice or a recommendation to buy or sell any security. There is no guarantee that securities remain in the portfolio or that securities sold have not been repurchased. It should not be assumed that any investments were profitable or will prove to be profitable, and past performance does not augrantee future results

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#### Custom Index Relative Sector Weights v MSCI Emerging Markets



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### CASE STUDY 2. ENGINEERED EQUITY MEETS ESG

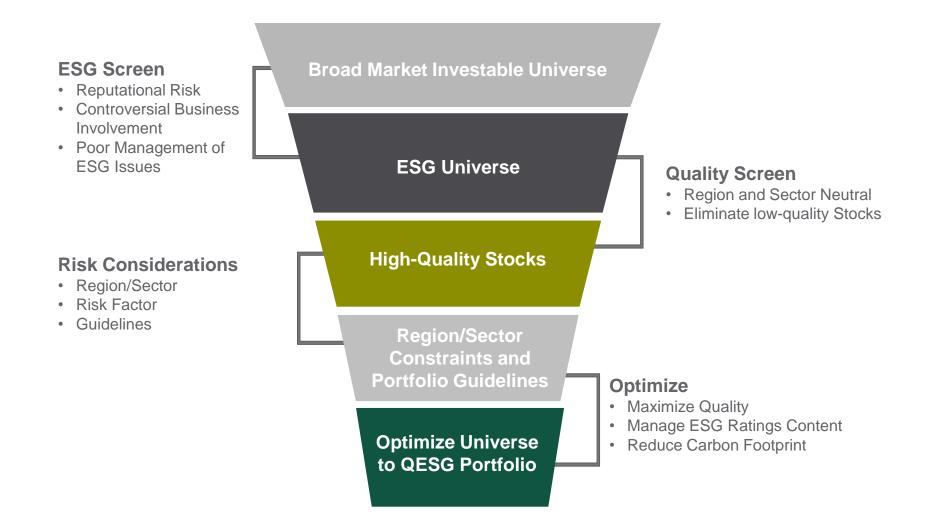
#### Northern Trust Quality ESG Strategy:

- Integrates Northern Trust Quality Score with ESG criteria to screen out companies that have low Quality and low ESG scores
- Manages unintended risk exposures and keeps control over tracking error

Northern Trust Quality Score	Typical ESG Issues		
Convert assets into sales	Corruption and instability		
Convert equity into returns	Business ethics and fraud		
Convert invested capital into returns	Health and safety		
Remain solvent	Privacy and data security		
Self-finance	Toxic emissions and waste		
Grow prudently without becoming over-	Biodiversity and land use		
extended	Carbon emissions		
Meet dividend obligations	Corporate Governance		

### **QUALITY ESG: PROCESS**

Integrating a compensated risk factor with ESG principles.



### ESG PROFILE AND PERFORMANCE SUMMARY (6-YEAR BACK TESTED RESULTS)

95 Co's or 9% MC	As of 12/31/2016	ESG	Analysis (As of 1	2/31/2016)
excluded on ESG criteria			CO2 Emissions Reduction	Potential CO2 Emissions Reduction
	MSCI World	5.42	0.0%	0.0%
	NT QESG World	6.94	50.9%	58.4%
1.52	MSCI World ESG	6.50	3.9%	24.3%
Improvement in ESG score	As of 12/31/2016	Risk A	djusted Returns (	Since Inception)
0.02		Sharpe Ratio Tracking Erro		rror Information Ratio
0.93	MSCI World	0.7	77 N/A	N/A
	NT QESG World	3.0	37 1.5%	0.93
Information Ratio since Inception	MSCI World ESG	0.7	77 1.0%	-0.23

**1.5%** Tracking Error since Inception

Note: Not actual portfolio results. Provided by Northern Trust Quantitative Research. Please see important information on Hypothetical Returns at the end of this presentation. For illustrative purposes only. Past performance is not indicative of future results. Returns reflect the reinvestment of dividends and other earnings and are shown before the deduction of investment management fees Returns of the indexes also do not typically reflect the deduction of investment fees, trading costs or other expenses. It is not possible to invest directly in an index. Indexes are the property of their respective owners, all rights reserved. As at 12/31/2015



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Hypothetical portfolio data contained herein does not represent the results of an actual investment portfolio but reflects the historical index performance of the strategy described which were selected with the benefit of hindsight. Components of the hypothetical portfolio were selected primarily utilizing actual historic market risk and return data. If the hypothetical portfolio would have been actively managed, it would have been subject to market conditions that could have materially impacted performance and possibly resulted in a significant decline in portfolio value.

As of 9/30/2016, Northern Trust Corporation had assets under management totaling \$945.8 billion. For purposes of compliance with the Global Investment Performance Standards (GIPS®), we have defined our firm as Northern Trust Asset Management Services, a subset of Northern Trust Asset Management, and includes those investment products managed by NTI, NTGIL, NTGIJ, and TNTC that are distributed through national channels. As of 09/30/2016 Northern Trust Asset Management totaling \$775.8 billion.

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