ESG Investing

TRENDS AND APPROACHES

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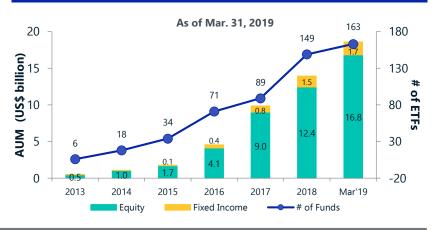


ESG investing is growing dramatically...why now?

UN PRI* Has Grown to Over 1,900 Signatories with \$81.7 Trillion In AUM



99% CAGR in ETF AUM Tracking MSCI ESG Indexes since 2013



HERE'S WHY:

1. Investors have become less tolerant of corporate ESG incidents

2. Investors demonstrating willingness to act

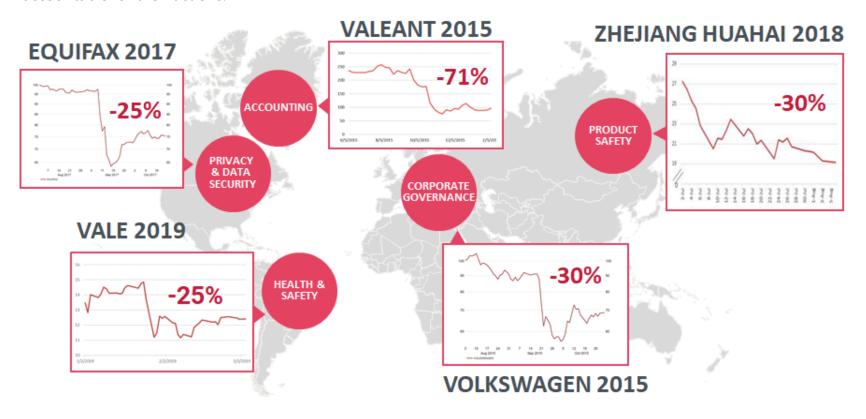
3. Greater understanding of potential financial benefit

4. Improved ESG ratings



1. Investors have become less tolerant of Corporate ESG incidents

30 years ago, Exxon's stock price barely moved when Exxon Valdez spilled 11mm gallons of oil on the Alaskan shore.* Today, with social media allowing for immediate, global communication of issues, investors are making companies accountable for their actions.



^{*}Source: https://www.fool.com/investing/general/2014/03/24/25-years-on-from-exxon-valdez-what-weve-learned-wh.aspx; Examples only. Past performance is not indicative of future results, which may differ materially.

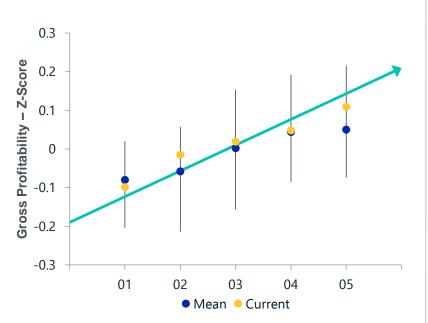


2. Greater understanding of potential financial benefit of ESG strategies, and longer track records

A MSCI ESG Research study¹ found that companies with high ESG Ratings had higher profitability, lower tail risk and lower systematic risk on average based on 10 years of data



Companies with higher MSCI ESG scores had higher profitability and were more competitive



MSCI has a broad range of ESG Indexes with significant live history. More than 120 have five or more years of live history, with MSCI KLD 400 having the longest track record (28+ years).



MSCI KLD 400: 28+ years of live history





▼ 3. Investors demonstrating willingness to act

More than \$250bn allocated to investments tracking / benchmarked to MSCI ESG equity & fixed income indexes since 2014¹

2014 2015	2016	2017		2018	2019
	indexes p	New Zealand ind Super o	Migros \$4.5bn MSCI ACWI ex China ESG Universal Willis Towers Watson \$750M MSCI ACWI ex Thermal Coal Adaptive Capped ESG Universal Index amarinen ESG enchmark lices based on MSCI's stainability ratings	Ontario Teachers Pension Fund MSCI ACWI Ex Canada Ex Tobacco policy benchmark United Nations Pension Fund MSCI ACWI Ex Tobacco Ex Controversial Weapons policy benchmark	The State of Connecticus Retirement Plans & Tru Funds to tra MSCI World I index



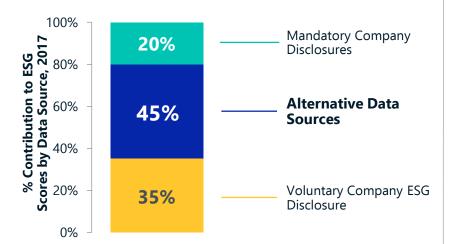
4. Improved ESG ratings now make it possible to measure what was once unmeasurable

Over the last eight years, MSCI has made significant investments in our ESG Ratings.



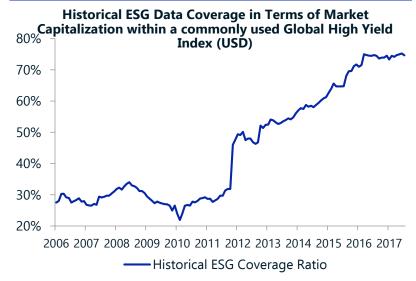
Our approach focuses on (1) identifying most relevant risks by sector; (2) recording forward-looking management data; and (3) incorporating unique alternative data sources beyond company disclosed (or reported) data

More alternative data beyond company self-reported data (~45% in our model)



2,434 constituents of the MSCI ACWI Index as of November 30, 2017 Source: MSCI FSG Research

More asset classes and securities covered



Source: JP Morgan. Blog: Systematic investing in ESG themes within the USD high yield corporate bond market. August 23, 2018 <u>Link</u>



5. The Equifax example illustrates how a proper ESG approach helped identify a material risk

ESG Ratings for Equifax highlighted key data breach risks more than one year before the breach.



HERE IS WHAT LED TO EQUIFAX'S DOWNGRADE IN AUGUST 2016:

- High weight on Data Privacy and Security key issue. The methodology-driven issue selection triggers deeper analysis on what matters
- Systematic review of **forward-looking** information (strategy, policies and targets) across sector. EFX was weakest by far
- Special focus on performance analysis. EFX was already subject to major hack and did not adapt. Use of alternative data sources (in this case, databases of hacks) allows for more effective assessment compared to company reported data



From why to how



ESG leaders have demonstrated increased sophistication across their organizations

ASSET OWNERS

PENSION

CONSULTANTS

ASSET MANAGEMENT

FUNDAMENTAL EQUITY

FUNDAMENTAL FIXED INCOME

OUANT

Asset Managers are moving beyond fundamental equity and integrating ESG into fixed income and quantitative strategies with growing sophistication

INSURANCE

FOUNDATIONS

ESG SPECIALIST

STEWARDSHIP & GOVERNANCE

Largest consultants are incorporating ESG dimensions into manager selection in reaction to Asset Owner

WEALTH MANAGEMENT

CIO OFFICE

- ESG themes

FUND SELECTION

- Due DiligenceFund Selection / Peer

RISK MANAGEMENT

RISK MANAGEMENT

COMPLIANCE

- Global Sanctions

important tool for improving company performance and returns

Engagement is becoming an

requests

Risk teams are increasingly systematically reporting on

ESG risk

FINANCIAL ADVISORS

RETAIL

RoboStock and Fund

EMERGING

OTHER / PRODUCT

- Custodian Hedge Fund
- Capital Markets

ACTIVE FUND

- Core EQ / FI
- ESG + Factor Thematic

PASSIVE FUND & ETP

- Core EQ / FI
- ESG + Factor Thematic

Demand for active and passive **ESG Funds across asset classes** for total portfolio exposures

MSCI

Integrating ESG across your entire investment process

MSCI can help you:



Define objectives & policy

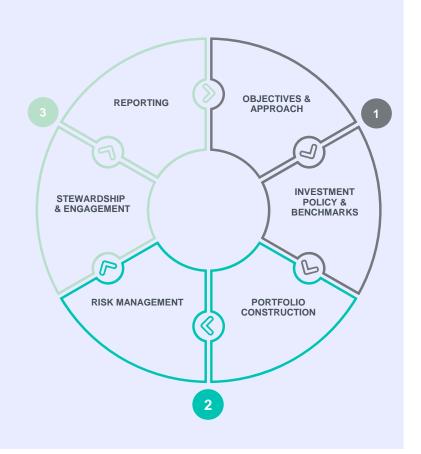
- · Define investment and ESG objectives
- · Set targets and strategies to enhance ESG profile
- Develop investment policy
- Select benchmarks
- 2

Integrate into investment process

- ESG in portfolio construction
- Active and index-linked ESG products
- · Scalable risk management reporting
- Stress testing
- 3

Engage stakeholders & report

- Engage companies and external stakeholders
- Provide transparency through client reporting





Define: align investor objectives with investment design



Incorporating ESG into investment strategy or creating products typically starts with understanding client objectives, which may combine elements of managing long-term risk, reflecting values and positive impact.





Define: evaluate & develop approach

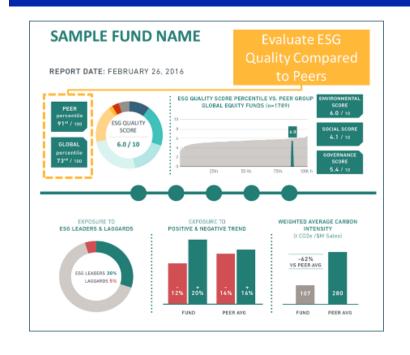


A critical step in the process of ESG integration brings clarity on the objectives, the policies that would apply throughout the organization as well as expected outcome. MSCI's research and tools can assist in developing policy, selecting the right benchmark, measuring expected outcomes and determining strategic positioning.

MSCI ESG Research Provide Guidance on Trends and Best Practices



ESG Fund Metrics Provide an Understanding of Positioning vs Peers





Integrate ESG into your investment strategy



There are numerous approaches for integrating ESG into portfolio construction—whether active or passive strategies—in equities or fixed income. Here are some common approaches.

1
Improve ESG Quality /
Reduce Risk



MSCI's ESG Ratings can be used for security selection or within systematic strategies to help improve ESG quality and reduce risk. Foundations of ESG Investing illustrate various investment approaches.¹

2

Reduce Carbon Footprint



The MSCI Low Carbon Target
Index targets an 80% reduction in
carbon emissions while
maintaining similar characteristics
as the parent Index, including a
0.5% tracking error.²

Exclude Business Activities

VALUES

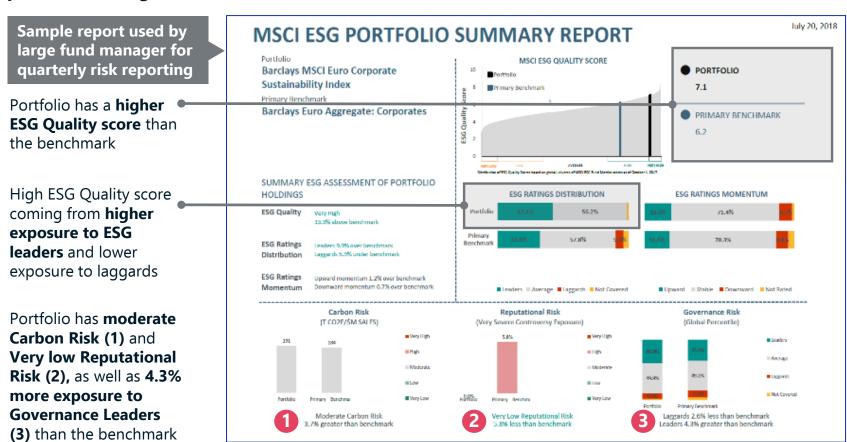
Asset owners increasingly require screens on their funds. MSCI offers a full range of screens and thresholds to help managers meet



Integrate ESG into your risk management



We increasingly see clients incorporating ESG into risk reporting and conversations with portfolio managers.



Available in MSCI RiskManager, MSCI BarraOne and MSCI Barra Portfolio Manager



Engage with stakeholders and communicate



Many asset owners expect managers to be active stewards of capital and to exert oversight and influence on companies they own. Leaders in field use engagement to improve company performance.

Proxy Voting

Company Engagement

'Beta Engagement'

Well-informed voting aimed at improving returns

Direct, constructive dialogue to improve practices

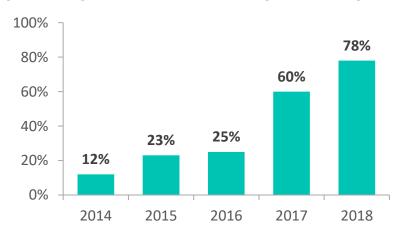
Beta engagement aimed at raising market standards

Examples: Proxy Access,

Climate Disclosure

Corporate Inquiries/Feedback from Japanese Companies

As part of Japan's Government Pension Fund (GPIF) allocation to MSCI ESG Leaders Index mandates, MSCI initiated engagements with Japanese corporates in 2017 to raise awareness of ESG best practices. As a result, we have seen a dramatic increase in interest, measured by an increase in response rates from Japanese companies.





MSCI ESG Ratings

Measuring material ESG risks



F ESG RATING METHODOLOGY



Analysis begins with a deep governance assessment

Ownership, Board, Pay, Accounting, Corporate Behavior Focus on most material ESG factors by industry

> Quantitative Approach + Annual Consultation

Focus on **risk exposure** not just
disclosure

Scoring Models Assess Risk Exposure + Risk Management Identify leaders and laggards within each industry

Industry-Relative ESG Ratings (AAA-CCC)





Sources: MSCI ESG Research

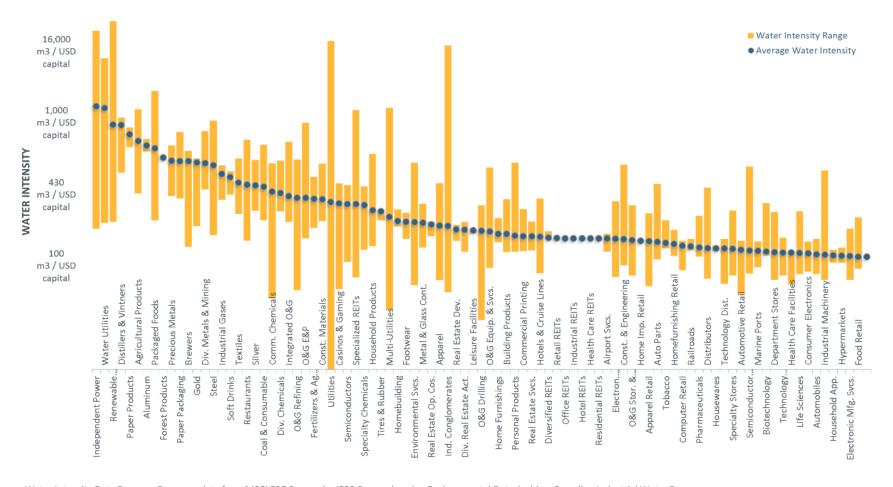
MSCI ESG RATINGS KEY ISSUES

ENVIRONMENT PILLAR			SOCIAL PILLAR				GOVERNANCE PILLAR		
Climate Change	Natural Capital	Pollution & Waste	Env. Opportunitie s	Human Capital	Product Liability	Stakeholder Opposition	Social Opportunitie s	Corporate Governance	Corporate Behavior
Carbon Emissions	Water Stress	Toxic Emissions & Waste	Clean Tech	Labor Management	Product Safety & Quality	Controversial Sourcing	Access to Communicatio n	Board	Business Ethics
Product Carbon Footprint	Biodiversity & Land Use	Packaging Material & Waste	Green Building	Health & Safety	Chemical Safety		Access to Finance	Pay	Anti- Competitive Practices
Financing Environmental Impact	Raw Material Sourcing	Electronic Waste	Renewable Energy	Human Capital Development	Financial Product Safety		Access to Health Care	Ownership	Corruption & Instability
Climate Change Vulnerability				Supply Chain Labor Standards	Privacy & Data Security		Opportunities in Nutrition & Health	Accounting	Financial System Instability
 Three-Step Process 1) Identify Key Issues By Industry 2) Measure Risk Exposure for each Key Issue 3) Measure Risk Management for each Key Issue 			Responsible Investment				Tax Transparency		
			Insuring Health & Demographic Risk						



P DETERMINING KEY ISSUES:

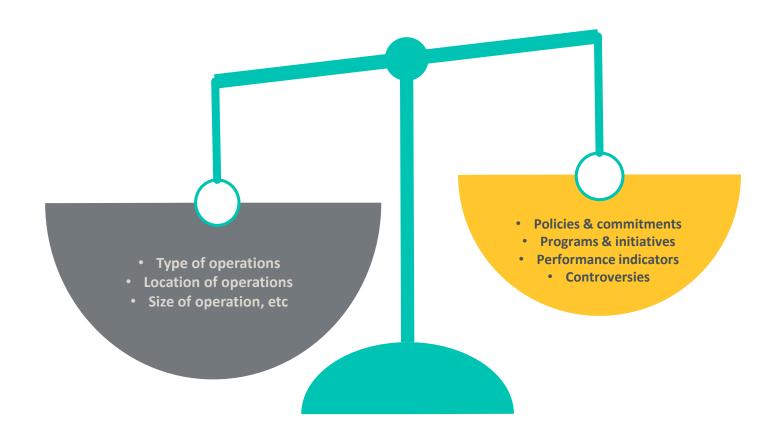
E.g. Water Risk by Sub-Industry



Water Intensity Data Sources: Company data from MSCI ESG Research, IERS Comprehensive Environmental Data Archive, Canadian Industrial Water Survey

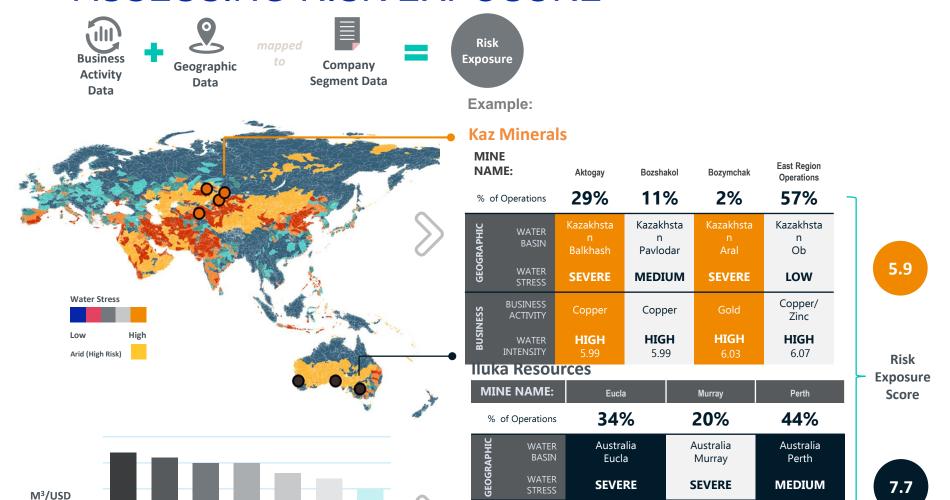


MEASURING ESG RISK EXPOSURE





ASSESSING RISK EXPOSURE



BUSINESS

ACTIVITY

BUSINESS



Heavy Minerals

HIGH

6.44

Heavy

Minerals

HIGH

6.44

Heavy

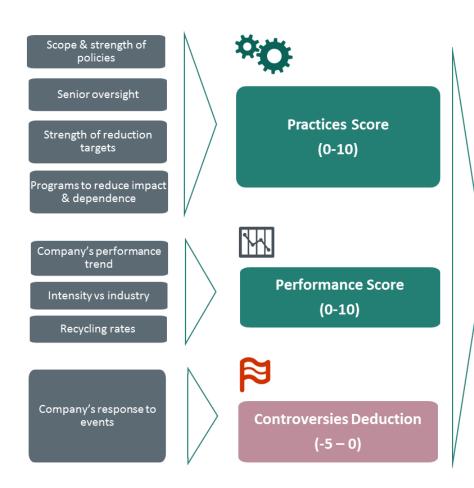
Minerals

HIGH

6.44

ASSESSING RISK MANAGEMENT

The focus is not only on policies and practices but also on evidence of actions



	PRACTICES	5.2	
Company A 3.2	PERFORMANCE	1.8	
	CONTROVERSIES	-0.3	

_	PRACTICES	7.9
Company B 7.0	PERFORMANCE	6.1
	CONTROVERSIES	n/a



Powering better investment decisions

MSCI can help you integrate ESG into your investment process and communicate with your stakeholders using the common language of ESG Ratings:

1 Leading ESG Ratings & Research

Broad coverage with more than 13,000 entities, >90% of equity and FI MV



Innovative equity & fixed income indexes for various ESG approaches

More than 900 indexes covering integration, values and impact



MSCI Emerging Markets ESG Leaders Index

Market-leading risk analytics platform & ESG reporting

Sophisticated ESG Analytics and scalable reporting across 700,000 multi-asset class securities



4 ESG expertise & network

350+ ESG experts and over 600 individuals working with investors around the world





About MSCI

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 45 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process. To learn more, please visit www.msci.com.



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