ESG Investing

FOR ASSET OWNERS WHO SEEK TO INTEGRATE ESG

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How to implement ESG



ESG leaders have demonstrated increased sophistication across their organizations

ASSET OWNERS

PENSION FUNDS

ASSET MANAGEMENT

FUNDAMENTAL EQUITY

FUNDAMENTAL **FIXED INCOME**

OUANT

- ESG Integration ESG solutions

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

INSURANCE

ENDOWMENTS & FOUNDATIONS

ESG SPECIALIST

STEWARDSHIP & GOVERNANCE

- Engagement ESG Themes

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

WEALTH MANAGEMENT

CIO OFFICE

FUND SELECTION

- Fund Selection / Peer

RISK MANAGEMENT

RISK MANAGEMENT

COMPLIANCE

- · Global Sanctions

Risk teams are increasingly

Engagement is becoming an

important tool for improving

company performance and

returns

OTHER / PRODUCT

FINANCIAL ADVISORS

- · Portfolio Analysis &
- Research

RETAIL

EMERGING

 Custodian Hedge Fund

ACTIVE FUND

- Core EQ / FI
- ESG + Factor Thematic

PASSIVE FUND & ETP

- Core EO / FI ESG + Factor
- Thematic

systematically reporting on ESG risk

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



Integrating ESG across your entire investment process

MSCI can help you:



Define objectives & policy

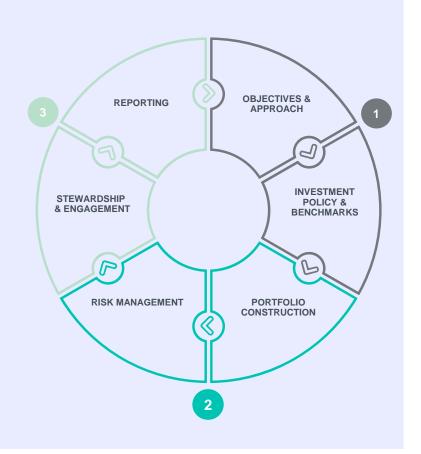
- · Define investment and ESG objectives
- · Set targets and strategies to enhance ESG profile
- Develop investment policy
- Select benchmarks
- 2

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: objectives & policy



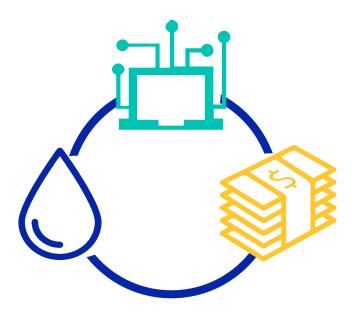
ESG integration can be used by asset owners as a mechanism to manage the long-term risk & return drivers of their portfolios and influence corporate behavior.

SYSTEM IMPROVEMENTS

- Incentive to protect stakeholders interest
- Stewardship of capital
- Overvalued assets

LONG-TERM RISKS

- Climate change
- Societal change
- Technological change



LONG-TERM OPPORTUNITIES

- Proactive capital allocation
- Long term economic growth



Define: assess your needs, define your objectives



Articulating the objectives, policies and expected outcomes is a critical step in the process of ESG integration. MSCI's research, tools and analysis can assist in assessing your needs.

MSCI ESG Research Provide Guidance on Trends and Best Practices



Portfolio & Index Metrics Reports Assess Potential Impact of ESG Approaches

Exposure to ESG leaders and laggards

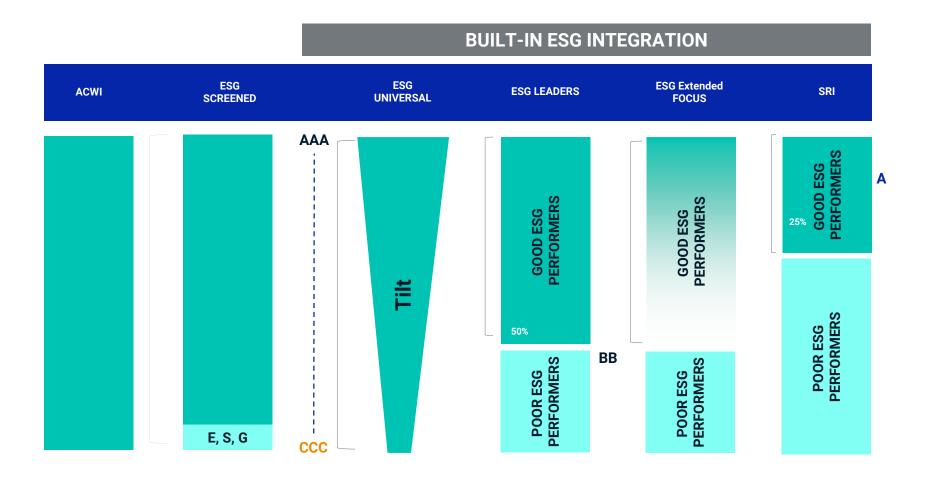




P Define: select a benchmark



Select a benchmark aligned with your ESG investment objectives, and to help you assess managers.





Integrate ESG into your investment strategy



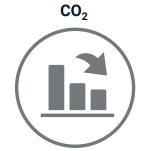
There are numerous approaches for integrating ESG into portfolio construction—whether active or passive strategies—in equities or fixed income. Here are some common approaches.

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

3
Exclude Business
Activities



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



Integrate ESG indexes as building blocks



ESG Indexes can be used as building blocks for passive, factor and active mandates, across equity and fixed income.

- Available across equity and fixed income
- Available for all regions, countries and sectors
- Universe, opportunity set
- For strategic asset allocation purposes
- Basis for regional, sectorial or style allocations
- Financial product creation
- Performance benchmarks

CLASSIC EQUITY ALLOCATION BEFORE ESG INTEGRATION

POLICY BENCHMARK: ACWI IMI					
PASSIVE MANDATES	FACTOR MANDATES		ACTIVE MANDATES		
ACWI IMI	VAL	VOL	AM1	AM2	
	SZE	QTY	AM3	AM4 AM6	
	МО	YLD	AM7	AM8	
			AM9	AM10	

POLICY BENCHMARK: ACWI IMI FACTOR PASSIVE ACTIVE MANDATES MANDATES MANDATES AM1 + ESG AM2 + ESG VAL+ VOL+ ESG **ESG** AM3 + ESG AM4 + ESG **ACWI IMI** QTY+ AM6 + ESG AM5 + ESG SZE + ESG **ESG UNIVERSAL ESG** AM8 + ESG AM7 + ESG YLD+ MO + ESG AM9 + ESG AM10 + ESG **ESG**



Integrate ESG into risk management



Asset owners increasingly incorporate ESG into their risk reporting, and conversations with portfolio managers. Incorporating ESG into systematic risk reporting can help identify unintended risk.



MSCI Analytics enable the attribution of portfolio risks to the portfolio's ESG exposure, as part of the Risk/Style Indexes



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

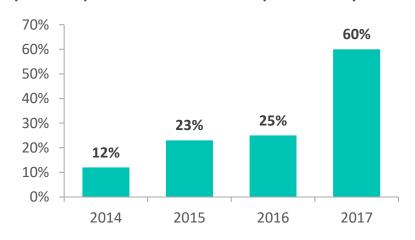
Beta engagement aimed at raising market standards

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.

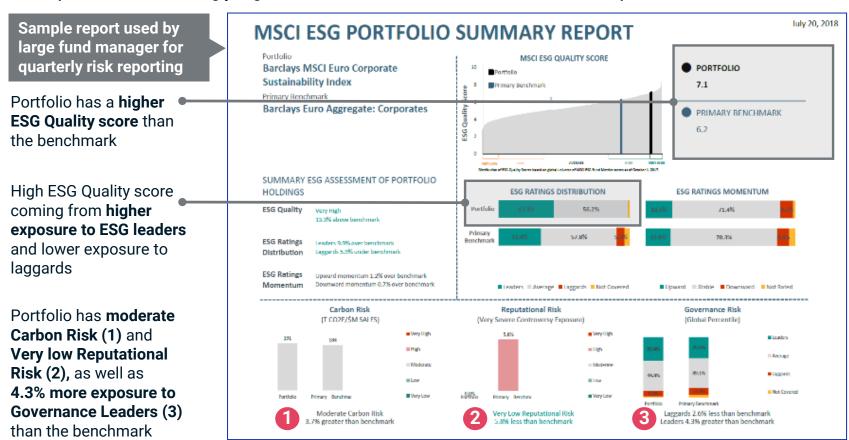




Engage: provide ESG transparency to stakeholders through systematic reporting



Investors are demanding transparency on ESG portfolio characteristics to understand how their capital is being deployed, and what the environment and societal impacts are. In particular we see asset owners reporting on climate risk exposure, and increasingly alignment with the United Nations Sustainable Development Goals.



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



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





Use cases

- ESG Integration across Equity and Credit Switzerland
- Low Carbon New Zealand
- Passive Allocation to ESG & Engagement Japan
- Integrated Factor and ESG Netherlands



Asset owners have implemented low carbon

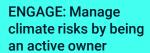
Example: NZ Super

NZ Super developed a 4 step climate change investment strategy, switching their equity reference portfolio and \$10bn passive equity portfolio to a custom Low Carbon Index (exclusions)

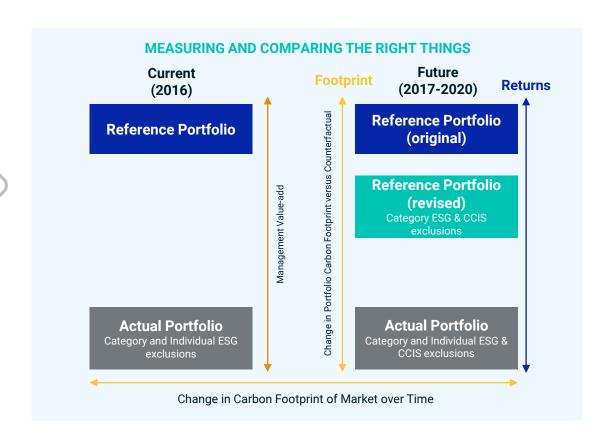
WORKSTREAM

REDUCE: Reduce exposure to fossil fuel reserves & carbon emissions

ANALYSE: Incorporate climate change into our analysis and decision making



SEARCH: Execution ability and our target operating model





Aligning policy benchmark with exclusion policy

Examples: Ontario Teachers, UN Pension Fund

1 ONTARIO TEACHERS

MSCI ACWI	MSCI ACWI ex Canada ex Tobacco	
Tobacco	(X)	

"Ontario Teachers' Pension Plan adopted MSCI ACWI ex Canada ex Tobacco as policy benchmark for its global equity portfolio reflecting its decision to divest from Tobacco companies"

2 UN PENSION FUND

	MSCI ACWI	MSCI ACWI ex Tobacco ex Controversial Weapons
Tobacco		(X)
Controversial Weapons		(X)

"The United Nations Joint Staff Pension Fund (UNJSPF) adopted a custom MSCI ACWI ex Tobacco ex Controversial Weapons index. The UNJSPF has historically not invested in Tobacco and Controversial Weapons companies. The Index will therefore better reflect the available investment universe for UNJSPF's active and passive global equity investments. It will provide a more accurate measure of performance from, and risk in, UNJSPF's global equities portfolio"



Asset owners demand ESG integration across equity, fixed income, and beyond

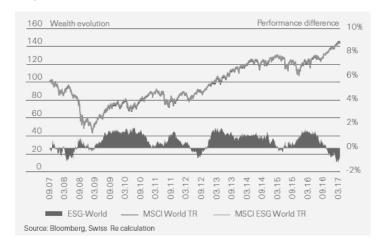
Example: Swiss Re

6th July, 2017 – Swiss Re switched all global equity and credit portfolio benchmarks to MSCI ESG Leaders and Bloomberg Barclays MSCI ESG Corporate Sustainability

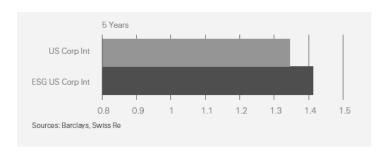
"Enhancing our investment portfolio by adopting broad-based ESG benchmarks has been the most meaningful and strategic step in our journey to integrate ESG considerations into the investment process."

Guido Fürer, Group Chief Investment Officer at Swiss Re.

EQUITY



FIXED INCOME



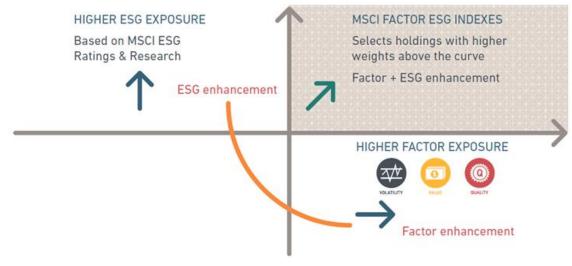


Factor investors are considering ESG

Example: Pension fund in Netherlands

The client wished to overlay their ESG policy onto their factor strategy, selected MSCI for its ability to combine a multiple factor strategy with ESG objectives in a seamless way, and for the quality of its ESG data and research

- \$4bn passive allocation
- Custom MSCI Multiple Factor ESG Target Index
- Value, Quality, Low Volatility
- Target 20% improvement in ESG Score





ESG index and engagement

Example: GPIF, Japan

GPIF have allocate to ESG Indexes in an effort to improve the overall market:

"GPIF believes companies want to be part of that [ESG] index, and so will improve their ESG ratings, and thus improve the market overall. I call it the incentive index."

Professor Kato, GPIF Board Member

GPIF, as a universal owner (largescale investor holding welldiversified portfolio), is responsible for yielding benefits for its pension beneficiaries by optimizing the investment value chain GPIF – Universal Owner, Long Term Investor

Investment and Engagement

External Asset Manager

ESG Integration using an ESG Index

Company

Promoting ESG information disclosure



About MSCI

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