

MSCI ESG FUND METRICS

FROM MSCI ESG RESEARCH INC.

OVER 100 ESG SCORES AND METRICS OF 21,000 MUTUAL FUNDS AND ETFs GLOBALLY

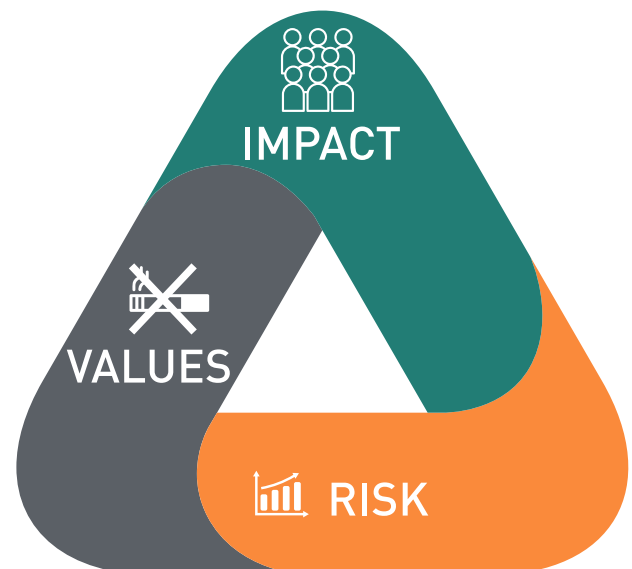
We leverage our ESG ratings and research coverage of over 6,000 companies (11,000 total issuers including subsidiaries) and more than 350,000 equity and fixed income securities to create ESG scores and metrics for approximately 21,000 multi-asset class Mutual Funds and ETFs globally. MSCI ESG Fund Metrics aims to provide fund-level transparency to help clients better understand and measure the ESG characteristics of the total portfolio, and rank or screen funds based on a diverse set of ESG exposure categories.

BACKGROUND

Clients are demanding a new dimension of fund level transparency beyond the traditional descriptors such as cap size, market exposure and historical returns. Clients want insight to understand the impact of their investments and to align their investment strategies with their values and philosophies.

Clients may use ESG fund metrics for the following:

- Measure ESG characteristics of the total portfolio
- Rank funds based on ESG characteristics
- Screen for funds to align with client values
- Transparency & reporting on the sustainability of client investments
- Measure the positive impacts arising from investments
- Compliment manager due diligence



THE METRICS PROVIDE INSIGHTS ACROSS THREE DIMENSIONS:

- Sustainable Impact; to measure fund exposure to companies that address core environmental & social challenges,
- Values Alignment; to screen funds for investments that align with ethical, religious or political values
- Risk; to understand fund exposure to ESG-related risks,

KEY FEATURES AND BENEFITS

Coverage

Approximately
21,000

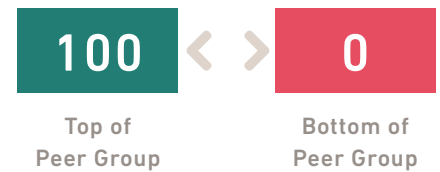
multi-asset class funds covered globally, including Equity, Mixed Assets, and Fixed Income funds.

Fund ESG Quality Score



Each fund in the coverage universe will receive an overall Fund ESG Quality Score. The ESG Quality Score measures the ability of underlying holdings to manage key medium-to long-term risks and opportunities arising from environmental, social, and governance factors.

Peer Group Percentile Rank



The Fund Percentile Rank measures how a fund's overall ESG Quality Score ranks relative to other funds in the same peer group. A global percentile rank, which ranks funds against all funds in the coverage universe, is also available.

OVER 100 ADDITIONAL EXPOSURE CATEGORIES

Over 100 metrics providing insight and transparency on the ESG attributes and exposures of funds including ESG-related Risks, Sustainable Impact Themes and Values Alignment.



CARBON FOOTPRINT



WATER EXPOSURE



EXPOSURE TO GOVERNANCE CONCERNS



EXPOSURE TO SUSTAINABLE IMPACT THEMES



EXPOSURE TO SRI EXCLUSIONS

ADDITIONAL EXPOSURE CATEGORIES

To facilitate customization we offer a diverse set of approximately 100 categories of exposure that can be used to evaluate portfolios on ESG Risks, Exposure to Sustainable Impact Themes, and Values oriented issues.

SUSTAINABLE IMPACT	VALUES ALIGNMENT	RISK
<p>Overall</p> <ul style="list-style-type: none"> Sustainable Impact Themes (%) <p>Environmental</p> <ul style="list-style-type: none"> Clean Tech Companies (%) Alternative Energy (%) Energy Efficiency (%) Green Building (%) Pollution Prevention (%) Sustainable Water (%) <p>Social</p> <ul style="list-style-type: none"> Social Impact Companies (%) Affordable Housing (%) Education Services (%) Nutritious Food (%) Health Care (%) Sanitation Products (%) Social Finance (%) 	<p>Controversies</p> <ul style="list-style-type: none"> Severe Environmental Controversies (%) Severe Labor Controversies (%) Severe Customer Controversies (%) Severe Human Rights and Community Controversies (%) Severe Governance Controversies (%) <p>International Norms Standards</p> <ul style="list-style-type: none"> UN Global Compact Compliance Violation (%) UN Global Compact Compliance Watch List (%) Human Rights Norms Violation (%) Human Rights Norms Watch List (%) Labor Norms Violation (%) Labor Norms Watch List (%) <p>Business Involvement</p> <ul style="list-style-type: none"> Catholic Values Flag (%) Islamic Values Flag (%) SRI Exclusion Criteria (%) Adult Entertainment (%) Alcohol (%) Gambling (%) Genetic Engineering - GMO (%) Nuclear Power (%) Predatory Lending (%) Tobacco (%) Controversial Weapons (%) Weapons (%) 	<p>Scores & Ranking</p> <ul style="list-style-type: none"> Overall Fund ESG Quality Score (0-10) Fund Quality Score Peer Group Percentile (0-100) Fund Quality Score Global Percentile (0-100) Environmental Score (0-10) Social Score (0-10) Governance Score (0-10) ESG Coverage (%) ESG Leaders (%) ESG Laggard (%) ESG Average (%) ESG Trend Positive (%) ESG Trend Stable (%) <p>Environmental Risks</p> <ul style="list-style-type: none"> Carbon Footprint Fossil Fuel Reserves (%) Water Exposure (%) Water - High Risk Bus. Segment (%) Water - High Risk Geo (%) <p>Governance Risks</p> <ul style="list-style-type: none"> Board Flag (%) Board Independence (%) No Female Directors (%) Pay Flag (%) Ownership & Control Flag (%) Accounting Flag (%)

Please contact MSCI ESG Research for a full list of metrics.

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