

Barra Portfolio Manager Analytics

Helping build better portfolios



Barra Portfolio Manager delivers the next generation of equity portfolio management tools and is designed to help fund managers and their teams build better portfolios, regardless of investment process. It allows users to gain additional portfolio insight, manage a more systematic investment process and make faster, more informed investment decisions – all on one integrated, flexible, risk and performance platform.

Key Features

- **Portfolio optimization** – Build portfolios that achieve an optimal combination of forecast risk and return given the constraints of your investment mandate. The Barra Optimizer, developed in-house by MSCI's optimization research team, lets you implement complex strategies with a wide array of constraints, bounds and risk/return targets.
- **Portfolio construction tools** – Manage your portfolio through a rebalance cycle using the Barra Optimizer. Evaluate multiple trading scenarios that add risk control and cost control to your investment process.
- **Attribution methodologies** – Choose from factor-based or traditional allocation/selection (Pure Brinson), or a hybrid approach that combines the two for a more meaningful analysis of the selection effects when considering multiple decision variables.
- **Risk decomposition methods** – Carry out risk decomposition using a Correlation Risk Attribution which fully reflects the diversification effect of each risk source in the portfolio, or by using other variance-based analytics.
- **Powerful side-by-side analysis** – Evaluate risk and return, portfolio characteristics, factors, and asset-level details side-by-side and compare different models, multiple dates and various portfolios simultaneously at a point-in-time or across a time-series.
- **Group-by analysis** – Align your portfolio view with your investment process by aggregating, analyzing and reporting your portfolio characteristics across multiple dimensions using Barra-supplied attributes like industries or countries, or other user-defined data that can be easily imported.

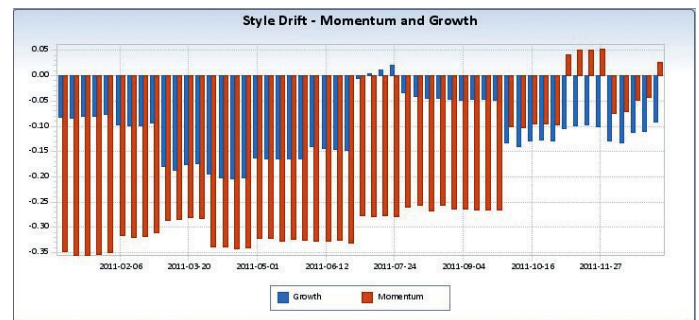
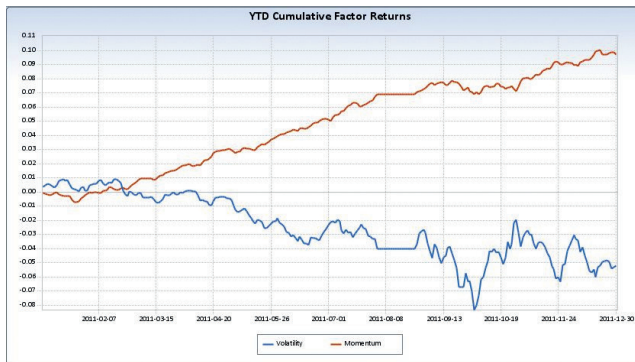
As a user of Barra Portfolio Manager, you can benefit from a broad range of risk and performance equity analytics and a flexible user interface that lets you tailor, define and share your personalized workspaces. Because Barra Portfolio Manager runs on a secure, hosted platform, you can also reduce the time spent managing and processing data.



Barra Portfolio Manager provides multiple views of your portfolio or the market

Barra Portfolio Manager can help you build better portfolios by providing you with the tools to:

- **Improve the analysis and communication of portfolio information** – Using advanced and easy-to-use charting tools to improve information sharing across your organization and with your clients. Run powerful time-series analysis and interact with the data by zooming in or out as required.



- **Identify and control sources of risk** – Isolate industry, style, market, or specific risk sources to see which policies are the largest contributors to your portfolio's risk and return.
- **Reduce unintentional bets and take corrective action** – Combine the exposure, volatility and correlation of your bets with the whole portfolio to get a clear view on how they contribute to the risk within that portfolio.
- **Optimize portfolios** – Use the Barra Optimizer to construct efficient portfolios of stocks, options, composites, and other instruments in order to meet your investment objectives while conforming to your portfolio level constraints on risk, exposure, turnover and leverage.
- **Attribute performance** – Evaluate performance in meaningful detail by attributing returns using a range of attribution methodologies.
- **Compare our risk estimates versus your realized risk and performance** – Time-series of risk forecasts allow you to understand how the risk profile of your portfolio has changed over time and its impact on realized risk and performance.
- **Gain process control and scale** – Monitor, control, and improve your workflow by using a range of views and workspaces. These workspaces can then be easily shared across the organization, including across multiple global locations, with access to content controlled by workgroup permissions.

To find out more about how Barra Portfolio Manager can be used within your equity investment process, please contact us.

Existing Barra Aegis Clients

Getting started is easy! Simply complete the Barra Order Form and an addendum to an existing Barra License Agreement to add the online service. Contact us to get started now.

www.msci.com | clientservice@msci.com

MSCI About MSCI

MSCI Inc. is a leading provider of investment decision support tools to investors globally, including asset managers, banks, hedge funds and pension funds. MSCI products and services include indices, portfolio risk and performance analytics, and governance tools. The company's flagship product offerings are: the MSCI indices with approximately USD 7 trillion estimated to be benchmarked to them on a worldwide basis; Barra multi-asset class factor models, portfolio risk and performance analytics; RiskMetrics multi-asset class market and credit risk analytics; MSCI ESG (environmental, social and governance) Research screening, analysis and ratings; ISS governance research and outsourced proxy voting and reporting services; FEA valuation models and risk management software for the energy and commodities markets; and CFRA forensic accounting risk research, legal/regulatory risk assessment, and due-diligence. MSCI is headquartered in New York, with research and commercial offices around the world.

The information contained herein (the "Information") may not be reproduced or disseminated in whole or in part without prior written permission from MSCI. The Information may not be used to verify or correct other data, to create indices, risk models, or analytics, or in connection with issuing, offering, sponsoring, managing or marketing any securities, portfolios, financial products or other investment vehicles. Historical data and analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. None of the information or MSCI index or other product or service constitutes an offer to buy or sell, or a promotion or recommendation of, any security, financial instrument or product or trading strategy. Further, none of the Information or any MSCI index is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. The Information is provided "as is" and the user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF MSCI INC. OR ANY OF ITS SUBSIDIARIES OR ITS OR THEIR DIRECT OR INDIRECT SUPPLIERS OR ANY THIRD PARTY INVOLVED IN THE MAKING OR COMPILING OF THE INFORMATION (EACH, AN "MSCI PARTY") MAKES ANY WARRANTIES OR REPRESENTATIONS AND, TO THE MAXIMUM EXTENT PERMITTED BY LAW, EACH MSCI PARTY HEREBY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WITHOUT LIMITING ANY OF THE FOREGOING AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL ANY OF THE MSCI PARTIES HAVE ANY LIABILITY REGARDING ANY OF THE INFORMATION FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR ANY OTHER DAMAGES EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES. The foregoing shall not exclude or limit any liability that may not be applicable by law be excluded or limited.

¹ As of June 30, 2011, based on eVestment, Lipper and Bloomberg data.