BARRA® GLOBAL TOTAL MARKET EQUITY MODEL SUITE

Barra **Equity Models are recognized for their high quality data and world class research. The Global Total Market Equity Model Suite builds on decades of MSCI's experience in constructing both global equity indexes and risk models for the global equity investor. The model introduces Systematic Equity Strategies for the first time in a *Barra* global equity model, in addition to delivering rich global datasets, point-in-time fundamental data and factor structures aligned to different investment horizons.**

NEW INVESTMENT INSIGHTS

- **Enhance alpha generation processes, develop and evaluate new strategies** using **Systematic Equity Strategy** factors for global equity investing, high-quality research-based factors and point-in-time fundamental datasets.
- **Measure sensitivity to potentially crowded trades** using Systematic Equity Strategy factors.
- **Gain insights into the different business segments of a firm** with multi-industry exposures.
- **Reduce forecasting bias in optimized portfolios** using Optimization Bias Adjustment.
- **Estimate a company's cost of capital for discounted cash flow analysis more accurately** using predicted betas that incorporate Bayesian adjustment techniques.

A FACTOR STRUCTURE ALIGNED TO MULTIPLE INVESTMENT HORIZONS[1]

LONG-TERM

- Designed with a focus on portfolio construction and reporting
- Available in Stable and Responsive variants

MEDIUM-TERM

- Includes all styles from the Long Term model plus additional factors for investment horizons between 1 month and 1 year
- Ideal for attribution and risk monitoring

TRADING

- Most responsive model in the family with a daily forecast horizon
- Constructed for short-term trading, hedging, and daily risk monitoring

[1] The Medium-Term and Trading versions of the model will be released later in 2016

RISK MONITORING AND PERFORMANCE ATTRIBUTION

- **Stress-test portfolios** with a deep daily model history dating back to January 1995, capturing major market events over a longer period of time.
- **Analyze hedging portfolios** by accounting for the stocks' dynamic sensitivities to the country and industry factors.
- **Obtain a timelier prediction of risk** with Volatility Regime Adjustment
- **Reduce exposure to unintended bets and better manage risk budgets** by using detailed factor exposure information.

ENRICHED DATASET FOR STRATEGY DEVELOPMENT

- **Reduce forward-bias when back testing strategies** using daily updated point-in-time fundamental data.
- **Reduce time-to-market and data management costs in alpha research** and in building custom risk factors using *Barra* Descriptors and high quality global datasets.

GLOBAL EQUITY CONTENT SET – WHAT DOES IT COVER?

COVERAGE

87 COUNTRIES

75,000+ SECURITES

45 INDUSTRY FACTORS BASED ON GICS®

ASSET CLASSES

DEPOSITORY RECEIPTS | CROSS-LISTED SECURITIES | STOCKS | EQUITY INDEX FUTURES | ETFs

DATA SETS

ASSET CHARACTERISTICS

- MSCI-DESIGNATED COUNTRY OF EXPOSURE AND QUOTATION
- CURRENCY OF EXPOSURE AND QUOTATION
- GICS® - BASED INDUSTRY FACTORS

MARKET DATA

- PRICES
- MARKET CAPITALIZATION
- DAILY AND MONTH ASSET RETURNS
- TRADING VOLUME
- BID-ASK SPREADS
- RISK FREE RATES
- CURRENCY EXCHANGE RATES

MODEL DATA

- FACTOR RETURNS
- FACTOR EXPOSURES
- COVARIANCE MATRIX
- FUNDAMENTAL BETAS
- HISTORICAL BETAS
- ASSET SPECIFIC RISK
- LINKED SPECIFC RISK

DESCRIPTORS

- RAW AND NORMALIZED VALUES
- DESCRIPTORS BASED ON FUNDAMENTAL DATA
- TECHNICAL DESCRIPTORS

INDENTIFIER INFORMATION

- TICKERS
- SEDOLS
- ISINS
- CUSIPS
- RIC
- COMPUSTAT GVKEY

INTEGRATED GLOBAL COVERAGE

- 87 countries and 72 currencies, including full coverage of the MSCI ACWI IMI
- 75,000+ assets, including Depository Receipts, Cross-Listed securities and coverage of equity index futures and over 1000 global equity ETFs

THE GLOBAL TOTAL MARKET EQUITY RISK MODEL SUITE COVERS THE FOLLOWING COUNTRIES:

DEVELOPED MARKETS			EMERGING MARKETS			FRONTIER MARKETS				
Americas	Europe & Middle East	Pacific	Americas	Europe, Middle East & Africa	Asia	Americas	Europe & CIS	Africa	Middle East	Asia
Canada	Austria	Australia	Brazil	Czech Republic	China Domestic	Argentina	Bosnia & Herzegovina	Botswana	Bahrain	Bangladesh
United States	Belgium	Hong Kong	Chile	Egypt	China International	Jamaica	Bulgaria	Ghana	Jordan	Pakistan
	Denmark	Japan	Columbia	Greece	India	Trinidad & Tobago	Croatia	Ivory Coast	Kuwait	Sri Lanka
	Finland	New Zealand	Mexico	Hungary	Indonesia		Cyprus	Kenya	Lebanon	Vietnam
	France	Singapore	Peru	Poland	South Korea		Estonia	Mauritius	Oman	
	Germany			Qatar	Malaysia		Iceland	Namibia	Palestine	
	Ireland			Russia	Philippines		Latvia	Nigeria	Saudi Arabia	
	Israel			South Africa	Taiwan		Lithuania	Tunisia		
	Italy			Turkey	Thailand		Kazakhstan	Zambia		
	Netherlands			United Arab Emirates			Malta			
	Norway						Macedonia			
	Portugal						Montenegro			
	Spain						Morocco			
	Sweden						Romania			
	Switzerland						Serbia			
	United Kingdom						Slovakia			
							Slovenia			
							Ukraine			

The *Barra* Global Total Market Equity Model Suite is available in: Aegis, Models Direct, *Barra*One and *Barra* PortfolioManager.

Find out more about the *Barra* Global Total Market Equity Model Suite by calling your MSCI representative or contacting us at **inquiries@msci.com**.

ABOUT MSCI

For more than 40 years, MSCI's research-based indexes and analytics have helped the world's leading investors build and manage better portfolios. Clients rely on our offerings for deeper insights into the drivers of performance and risk in their portfolios, broad asset class coverage and innovative research. Our line of products and services includes indexes, analytical models, data, real estate benchmarks and ESG research. MSCI serves 97 of the top 100 largest money managers, according to the most recent P&I ranking. For more information, visit us at www.msci.com.

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