

MSCI US REIT INDEX METHODOLOGY

Index Construction and Maintenance Methodology for the MSCI US REIT Index

November 2015



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INTRODUCTION

The MSCI US REIT Index is a free float-adjusted market capitalization weighted index that is comprised of Equity REIT securities. The MSCI US REIT Index includes securities with exposure to core real estate (e.g. residential and retail properties) as well as securities with exposure to other types of real estate (e.g. casinos, theaters).

The MSCI US REIT Index is based on the MSCI USA Investable Market Index (IMI) ("the parent index"), which is comprised of all the securities included in the MSCI USA Large Cap, MSCI USA Mid Cap and MSCI USA Small Cap Indexes. The MSCI USA IMI is governed by the MSCI Global Investable Market Indexes methodology that is available on MSCI's web site: http://www.msci.com/products/indexes/size/methodology.html.

At the November 2013 Semi-Annual Index Review, MSCI enhanced the MSCI US REIT Index methodology by transitioning the parent index used to derive the MSCI US REIT Index from the MSCI US Investable Market 2500 Index to the MSCI USA IMI. This change was implemented in order to align the parent index universe of the MSCI US REIT Index with the MSCI Global Investable Market Indexes.

This document contains the new enhanced guidelines used to maintain the MSCI US REIT Index. More details on the transition to the enhanced MSCI US REIT Index methodology are included in the Appendix.



1 DEFINING REITS AND THE MSCI US REIT INDEX ELIGIBLE REITS

A Real Estate Investment Trust, or REIT, is a company that in most cases owns and operates income producing real estate assets. Some REITs provide loans to the owners and operators of real estate. To qualify as a REIT under the Internal Revenue Code, a REIT is required to distribute at least 90% of its taxable income to shareholders annually and receive at least 75% of that income from rents, mortgages and sales of property.

MSCI classifies REIT securities into one of the nine Real Estate Investment Trust (REIT) Sub-Industries within the Global Industry Classification Standard (GICS®) structure. The REITs Sub-Industries are part of the Real Estate Industry, Real Estate Industry Group and the Financials Sector. The nine REITs Sub-Industries aim to represent REITs with distinct property type profiles.

REITs eligible for inclusion in the MSCI US REIT Index are REITs that are included in the MSCI USA IMI and that exhibit the following characteristics:

- Equity REIT structure (i.e. Mortgage REITs are not eligible)
- Real estate exposure (i.e. only selected Specialized REITs are eligible)

REITs Sub-Industries: Eligibility for the MSCI US REIT Index

REITs Sub-Industry	Eligibility for the MSCI US REIT Index
Diversified REITs	Yes
Health Care REITs	Yes
Hotel & Resort REITs	Yes
Industrial REITs	Yes
Mortgage REITs	No
Office REITs	Yes
Residential REITs	Yes
Retail REITs	Yes
Specialized REITs	Selected Specialized REITs only



REITs classified in the Specialized REITs Sub-Industry are eligible for inclusion in the MSCI US REIT Index only if they own and/or operate the following types of properties:

- Storage and self-storage facilities
- Data centers
- Correctional facilities
- Theaters
- Casinos and gaming facilities
- Restaurants¹

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 $^{^{\}rm 1}$ Effective starting from the February 2016 Quarterly Index Review.



2 MAINTENANCE OF THE MSCI US REIT INDEX

The maintenance of the MSCI US REIT Index includes:

- Semi-Annual Index Reviews (SAIRs) in May and November,
- Quarterly Index Reviews (QIRs) in February and August, and
- Ongoing event-related changes which are generally implemented in the indexes as they
 occur

2.1 SEMI-ANNUAL INDEX REVIEWS AND QUARTERLY INDEX REVIEWS

During Semi-Annual Index Reviews and Quarterly Index Reviews, the parent index is reviewed under the guidelines of the MSCI Global Investable Market Indexes methodology. Changes in the parent index during Index Reviews may impact the MSCI US REIT Index as follows:

- Existing constituents of the MSCI US REIT Index that are deleted from the parent index are deleted from the MSCI US REIT Index
- Eligible equity REIT securities not currently constituents of the MSCI US REIT Index that are added to the parent index are added to the MSCI US REIT Index
- Changes in the Foreign Inclusion Factors (FIF) and Number of Shares (NOS) for securities of the parent index are also applied to the securities included in the MSCI US REIT Index
- When a change in Global Industry Classification Standard (GICS®) for an existing
 constituent of the parent index to one of the eligible REIT Sub-Industries defined in
 Section 1 is announced, then provided that the date of such announcement is before
 the implementation date of the next Index Review, such constituent may be considered
 for inclusion in the MSCI US REIT Index at such Index Review

In addition, the list of eligible property types for REITs classified in the Specialized REITs Sub-Industry is reviewed during each Semi-Annual Index Review and Quarterly Index Review. Changes to the list are communicated as part of the Index Review announcements and become effective at the subsequent Index Review.

For more information on Index Reviews for the MSCI Global Investable Market Indexes, please refer to Sections 3.1 and 3.2 of the MSCI Global Investable Market Indexes methodology book.



2.2 ONGOING EVENT-RELATED CHANGES

The parent index is updated to reflect ongoing event-related changes in accordance with the MSCI Global Investable Market Indexes methodology. Ongoing event-related changes in the parent index are reflected in the MSCI US REIT Index at the time of the implementation of the event in the parent index:

- Existing constituents of the MSCI US REIT Index that are deleted from the parent index due to corporate events are deleted from the MSCI US REIT Index
- Eligible equity REIT securities not currently constituents of the MSCI US REIT Index that are added to the parent index due to corporate events are added to the MSCI US REIT Index
- Changes in the Foreign Inclusion Factors (FIF) and Number of Shares (NOS) for securities
 of the parent index due to corporate events are also applied to the securities included in
 the MSCLUS REIT Index

For more information on the implementation of corporate events in the MSCI Global Investable Market Indexes, please refer to Section 3.3 of the MSCI Global Investable Market Indexes methodology book.

2.3 ANNOUNCEMENT POLICY

In line with the MSCI Global Investable Market Indexes methodology, the changes to the MSCI US REIT Index are typically announced at least ten business days prior to these changes becoming effective in the indexes as "expected" announcements, or as "undetermined" announcements, when the effective dates are not known yet or when aspects of the event are uncertain. MSCI sends "confirmed" announcements at least two business days prior to events becoming effective in the indexes provided that all necessary public information concerning the event is available. In case a "confirmed" announcement needs to be amended, MSCI sends a "correction" announcement with a descriptive text announcement to provide details about the changes made.

If warranted, MSCI may make descriptive text announcements for events that are complex in nature and for which additional clarification could be beneficial for any Standard, Small Cap and Micro Cap Indexes.

For more information on the announcement policy for the MSCI Global Investable Market Indexes, please refer to Section 3.4 of the MSCI Global Investable Market Indexes methodology book.



APPENDIX I: PAST METHODOLOGY CHANGES FOR THE MSCI US REIT INDEX

CHANGES APPLIED AT THE NOVEMBER 2013 SEMI-ANNUAL INDEX REVIEW

Effective at the time of the November 2013 Semi-Annual Index Review, MSCI enhanced the MSCI US REIT Index methodology by transitioning the parent index used to derive the MSCI US REIT Index from the MSCI US Investable Market 2500 Index to the MSCI USA IMI. This change was implemented in order to align the parent index universe of the MSCI US REIT Index with the MSCI Global Equity Indexes.

To reduce index turnover following the transition to the enhanced MSCI US REIT Index methodology, current constituents of the MSCI US REIT Index will remain eligible for inclusion in the MSCI US REIT Index as long as they remain in the MSCI USA Micro Cap Index.



APPENDIX II: GLOBAL INDUSTRY CLASSIFICATION STANDARD (GICS)

INTRODUCTION

The Global Industry Classification Standard (GICS) was developed by MSCI in collaboration with S&P Dow Jones Indices to provide an efficient, detailed and flexible tool for use in the investment process. It is designed to respond to the global financial community's need for a global, accurate, complete and widely accepted approach to defining industries and classifying securities by industry. Its universal approach to industry classification aims to improve transparency and efficiency in the investment process.

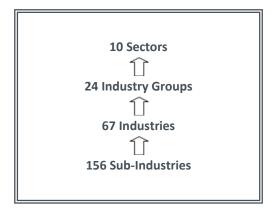
KEY FEATURES OF THE GICS

The key features of the GICS are that it is:

- Universal: the classification applies to companies globally.
- Accurate: the structure precisely reflects the state of industries in the equity investment universe.
- Flexible: the classification consists of four levels of analysis, ranging from the most general to the most specialized sub-industry.
- Evolutionary: annual reviews are conducted to ensure that the classification remains fully representative of the universe.

To provide the level of precision critical in the investment process, the GICS is designed with four levels of classifications:

The Global Industry Classification Standard (GICS)





The GICS has 10 sector classifications:

- Energy
- Materials
- Industrials
- Consumer Discretionary
- Consumer Staples
- Health Care
- Financials
- Information Technology
- Telecommunication Services
- Utilities.

PHILOSOPHY AND OBJECTIVES OF THE GICS

The way in which securities are classified into asset classes forms the basis of many important investment decisions. The relative merits of each security are judged primarily within these asset classes, and investment decisions are taken within this framework.

APPROACHES TO INDUSTRY CLASSIFICATION SCHEMES

While grouping securities by country and regions is relatively straightforward, classifications by industries are more difficult. There are many approaches to developing industry classification schemes, some of which are discussed below.

At one extreme is the purely statistical approach, which is solely financial market-based and backward looking, using past returns. Aggregations are formed around correlation, often yielding non-intuitive groupings that are dissimilar across countries and regions. Another approach attempts to define a priori financial market-oriented groups or themes, such as cyclical, interest rate sensitive, etc. The difficulty, however, lies in finding widely accepted and relatively stable definitions for these themes.

Two other approaches begin with an economic perspective on companies. The first focuses on a production orientation while the other adopts a market or demand orientation in company analysis. The production-oriented approach was effective in the past in its analysis of the microstructure of industries from the producers' standpoint. For instance, it segregated goods and services on the premise that it was a different set of companies that provided each to consumers. As the structure of the global economy evolved, limitations of



this approach became increasingly obvious. The ever-increasing share of discretionary income brought about by economic development, emergence of the service era, and the availability and accessibility of information with the advent of new communication technology has moved the emphasis from producers to consumers.

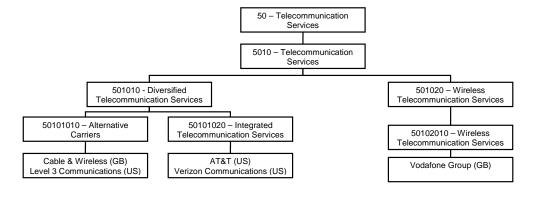
THE GICS: MARKET DEMAND-ORIENTED

The Global Industry Classification Standard is designed to be market demand-oriented in its analysis and classification of companies. For example, drawing the line between goods and services is becoming increasingly arbitrary as they are now commonly sold together. This distinction between goods and services is replaced by adopting the more market-oriented sectors of "Consumer Discretionary" and "Consumer Staples", which group goods and services sub-industries. In addition, the creation of large stand-alone sectors such as Health Care, Information Technology and Telecommunication Services accurately represents industries that provide significant value to the consumer in today's global and integrated economy. This further contributes to a more uniform distribution of weights among the 10 sectors.

GICS COMPANY CLASSIFICATION

The GICS is used to assign each company to a sub-industry according to its principal business activity. Since the GICS is strictly hierarchical, a company can only belong to one grouping at each of the four levels.

An Illustration of the GICS – Telecommunication Services Sector:





CLASSIFICATION BY REVENUE

In order to provide an accurate, complete and long-term view of the global investment universe, a company's revenues often provide a more stable and precise reflection of its activities than earnings. Furthermore, industrial and geographical breakdowns of revenues are more commonly available than earnings broken down the same way for most companies. Nevertheless, company valuations are more closely related to earnings than revenues. Therefore, earnings remain an important secondary consideration in a company's industry classification.

GENERAL GUIDELINES FOR CLASSIFICATION

The primary source of information used to classify securities is a company's annual reports and accounts. Other sources include brokers' reports and other published research literature. As a general rule, a company is classified in the sub-industry whose definition most closely describes the business activities that generate at least 60% of the company's revenues.

Example: Nokia (FI)

2013 Results	Nokia Networks	Nokia Technologies	HERE
Revenues	89%	4%	7%
Earnings	88%	24%	-12%

Classified as:

GICS Level	GICS Code	Code Description
Sector	45	Information Technology
Industry Group	4520	Technology Hardware & Equipment
Industry	452010	Communications Equipment
Sub-Industry	45201020	Communications Equipment

However, a company engaged in two or more substantially different business activities, none of which contribute 60% or more of revenues, is classified in the sub-industry that provides the majority of both the company's revenues and earnings. When no sub-industry provides the majority of both the company's revenues and earnings, the classification will be determined based on further research and analysis. In addition, a company significantly diversified across three or more sectors, none of which contributes the majority of revenues



or earnings, is classified either in the Industrial Conglomerates sub-industry (Industrial Sector) or in the Multi-Sector Holdings sub-industry (Financials Sector).

Example: General Electric (US)

2006 Results	Infrastructure	Industrial	Healthcare	NBC Universal	Comercial Finance	Consumer Finance
Revenues	30%	21%	10%	10%	15%	14%
Earnings	34%	10%	12%	11%	19%	13%

Classified as:

GICS Level	GICS Code	Code Description
Sector	20	Industrials
Industry Group	2010	Capital Goods
Industry	201050	Industrial Conglomerates
Sub-Industry	20105010	Industrial Conglomerates

In the case of a new issue, the classification will be determined based primarily on the description of the company's activities and pro forma results as given in the prospectus.

REVIEW OF SUB-INDUSTRY CLASSIFICATION

A company's sub-industry classification will be reviewed either when a significant corporate restructuring occurs or when a new annual report is available. In order to provide a stable sub-industry classification, when reviewing a company's classification, changes will be minimized in the sub-industry classification to the extent possible by disregarding temporary fluctuations in the results of a company's different activities.

In the event that the above guidelines should not appropriately capture a particular company's business activity, its classification will be determined based on more extensive analysis.



	cation Standard) ess (US, EST) Friday February 28, 2014			
Sector	Industry Group	Industry	Sub-Industr	Y
0 Energy	1010 Energy	101010 Energy Equipment & Services	10101010	Oil & Gas Drilling
			10101020	Oil & Gas Equipment & Services
		101020 Oil, Gas & Consumable Fuels	10102010	Integrated Oil & Gas
			10102020	Oil & Gas Exploration & Production
			10102030	Oil & Gas Refining & Marketing
			10102040	Oil & Gas Storage & Transportation
5 Materials	1510 Materials	151010 Chemicals	10102050 15101010	Coal & Consumable Fuels
3 Materials	1310 Materials	131010 Chemicals	15101010	Commodity Chemicals Diversified Chemicals
			15101020	Fertilizers & Agricultural Chemicals
			15101040	Industrial Gases
			15101050	Specialty Chemicals
		151020 Construction Materials	15102010	Construction Materials
		151030 Containers & Packaging	15103010	Metal & Glass Containers
			15103020	Paper Packaging
		151040 Metals & Mining	15104010	Aluminum
			15104020	Diversified Metals & Mining
			15104030	Gold
			15104040	Precious Metals & Minerals
			15104045	Silver
			15104050	Steel
		151050 Paper & Forest Products	15105010	Forest Products
			15105020	Paper Products
0 Industrials	2010 Capital Goods	201010 Aerospace & Defense	20101010	Aerospace & Defense
		201020 Building Products	20102010	Building Products
		201030 Construction & Engineering	20103010	Construction & Engineering
		201040 Electrical Equipment	20104010	Electrical Components & Equipment
			20104020	Heavy Electrical Equipment
		201050 Industrial Conglomerates	20105010	Industrial Conglomerates
		201060 Machinery	20106010	Construction Machinery & Heavy Trucks
			20106015	Agricultural & Farm Machinery
			20106020	Industrial Machinery
		201070 Trading Companies & Distributors	20107010	Trading Companies & Distributors
	2020 Commercial & Professional Services	202010 Commercial Services & Supplies	20201010	Commercial Printing
			20201050	Environmental & Facilities Services
			20201060	Office Services & Supplies
			20201070	Diversified Support Services
			20201080	Security & Alarm Services
		202020 Professional Services	20202010	Human Resource & Employment Services
			20202020	Research & Consulting Services
2030 T	2030 Transportation	203010 Air Freight & Logistics	20301010	Air Freight & Logistics
		203020 Airlines	20302010	Airlines
		203030 Marine 203040 Road & Rail	20303010 20304010	Marine Railroads
		203040 Road & Rall	20304010	Trucking
		203050 Transportation Infrastructure	20305010	Airport Services
		203030 Hallsportation Illiant acture	20305020	Highways & Railtracks
			20305030	Marine Ports & Services
25 Consumer Discretionary	2510 Automobiles & Components	251010 Auto Components	25101010	Auto Parts & Equipment
		Secretaria de Companya de Comp	25101020	Tires & Rubber
		251020 Automobiles	25102010	Automobile Manufacturers
		The second secon	25102020	Motorcycle Manufacturers
	2520 Consumer Durables & Apparel	252010 Household Durables	25201010	Consumer Electronics
	(F.F.)			Home Furnishings
			25201020	
			25201020	Homebuilding
				Homebuilding Household Appliances
			25201030	
		252020 Leisure Products	25201030 25201040	Household Appliances
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Sector 30 Consumer Staples		301010	Food & Staples Retailing	Sub-Industry 30101010	Drug Retail
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				30101020	Food Distributors
Į.				30101020	Food Retail
				30101030	
İ	3020 Food, Beverage & Tobacco	202010	Beverages	30201010	Hypermarkets & Super Centers Brewers
İ	3020 Food, Beverage & Tobacco	302010	Beverages		
İ				30201020	Distillers & Vintners
İ				30201030	Soft Drinks
Í		302020	Food Products	30202010	Agricultural Products
Í				30202030	Packaged Foods & Meats
Í			Tobacco	30203010	Tobacco
Í	3030 Household & Personal Products	303010	Household Products	30301010	Household Products
<u> </u>		303020	Personal Products	30302010	Personal Products
35 Health Care	3510 Health Care Equipment & Services	351010	Health Care Equipment & Supplies	35101010	Health Care Equipment
Í				35101020	Health Care Supplies
Í		351020	Health Care Providers & Services	35102010	Health Care Distributors
İ				35102015	Health Care Services
Í				35102020	Health Care Facilities
Í				35102030	Managed Health Care
Í		351030	Health Care Technology	35103010	Health Care Technology
Í	3520 Pharmaceuticals, Biotechnology & Life Science			35201010	Biotechnology
Í					
İ			Pharmaceuticals	35202010	Pharmaceuticals
40 51	4010 Perlin		Life Sciences Tools & Services	35203010	Life Sciences Tools & Services
40 Financials	4010 Banks	401010	Banks	40101010	Diversified Banks
i				40101015	Regional Banks
İ			Thrifts & Mortgage Finance	40102010	Thrifts & Mortgage Finance
İ	4020 Diversified Financials	402010	Diversified Financial Services	40201020	Other Diversified Financial Services
İ				40201030	Multi-Sector Holdings
Í				40201040	Specialized Finance
İ		402020	Consumer Finance	40202010	Consumer Finance
Í		402030	Capital Markets	40203010	Asset Management & Custody Banks
Í				40203020	Investment Banking & Brokerage
Í				40203030	Diversified Capital Markets
Í	4030 Insurance	403010	Insurance	40301010	Insurance Brokers
Í	4030 maurance	403010	modrance	40301020	Life & Health Insurance
İ					
				40301030	Multi-line Insurance
				40301040	Property & Casualty Insurance
Í				40301050	Reinsurance
Í	4040 Real Estate	404020	Real Estate Investment Trusts (REITs)	40402010	Diversified REIT's
Í				40402020	Industrial REIT's
Í				40402030	Mortgage REIT's
İ				40402035	Hotel & Resort REIT's
Í				40402040	Office REIT's
Í				40402045	Health Care REIT's
				40402050	Residential REIT's
				40402060	Retail REIT's
				40402070	Specialized REIT's
		404030	Real Estate Management & Development	40403010	Diversified Real Estate Activities
Í		404050	near estate management a pereropment	40403020	Real Estate Operating Companies
Í				40403020	Real Estate Development
Í				40403030	
AE Information T	AE10 Coffessor 9 Consises	451010	Internet Software & Services	40403040 45101010	Real Estate Services
45 Information Technology	4510 Software & Services				Internet Software & Services
i		451020	IT Services	45102010	IT Consulting & Other Services
i				45102020	Data Processing & Outsourced Services
İ		451030	Software	45103010	Application Software
İ				45103020	Systems Software
İ				45103030	Home Entertainment Software
İ	4520 Technology Hardware & Equipment	452010	Communications Equipment	45201020	Communications Equipment
i		452020	Technology Hardware, Storage & Peripherals	45202030	Technology Hardware, Storage & Peripherals
İ		452030	Electronic Equipment, Instruments & Components	45203010	Electronic Equipment & Instruments
İ				45203015	Electronic Components
İ				45203020	Electronic Manufacturing Services
i				45203030	Technology Distributors
İ	4530 Semiconductors & Semiconductor Equipment	453010	Semiconductors & Semiconductor Equipment	45301010	Semiconductor Equipment
İ	a semiconductor equipment	.55020		45301010	Semiconductors
50 Telecommunication Service	5010 Telecommunication Services	501010	Diversified Telecommunication Services	50101010	Alternative Carriers
Julie relecommunication Service	2010 Telecommunication Services	201010	Diversified refecommunication Services		
i		E0405-	W	50101020	Integrated Telecommunication Services
			Wireless Telecommunication Services	50102010	Wireless Telecommunication Services
55 Utilities			Electric Utilities	55101010	Electric Utilities
i e			Gas Utilities	55102010	Gas Utilities
		551030	Multi-Utilities	55103010	Multi-Utilities
			Water Utilities	55104010	Water Utilities
		551040	Water Utilities Independent Power and Renewable Electricity Produc		Water Utilities Independent Power Producers & Energy Traders



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METHODOLOGY BOOK TRACKED CHANGES

The following sections have been modified since February 2014:

Section 1: Defining REITs and the MSCI US REIT Index Eligible REITs

• Updates in this section

The following sections have been modified since June 2015:

Section 1: Defining REITs and the MSCI US REIT Index Eligible REITs

Update to the list of eligible property types

The following sections have been modified since November 2015:

Section 1: Defining REITs and the MSCI US REIT Index Eligible REITs

Added "Restaurants" to the list of eligible property types

Section 2.1: Semi-Annual Index Reviews and Quarterly Index Reviews

• Added a paragraph on the review process for the list of eligible property types



CONTACT US

AMERICAS

clientservice@msci.com

Americas	1 888 588 4567 *
Atlanta	+ 1 404 551 3212
Boston	+ 1 617 532 0920
Chicago	+ 1 312 675 0545
Monterrey	+ 52 81 1253 4020
New York	+ 1 212 804 3901
San Francisco	+ 1 415 836 8800
Sao Paulo	+ 55 11 3706 1360
Toronto	+ 1 416 628 1007

EUROPE, MIDDLE EAST & AFRICA

Cape Town	+ 27 21 673 0100
Frankfurt	+ 49 69 133 859 00
Geneva	+ 41 22 817 9777
London	+ 44 20 7618 2222
Milan	+ 39 02 5849 0415
Paris	0800 91 59 17 *

ASIA PACIFIC

China North	10800 852 1032 *
China South	10800 152 1032 *
Hong Kong	+ 852 2844 9333
Mumbai	+ 91 22 6784 9160
Seoul	00798 8521 3392 *
Singapore	800 852 3749 *
Sydney	+ 61 2 9033 9333
Taipei	008 0112 7513 *
Tokyo	+ 81 3 5290 1555

^{* =} toll free

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