



HORIZON KINETICS SPIN-OFF INDEXES
OPPORTUNITIES IN SPECIAL SITUATIONS

Prepared in August 2016

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New York, NY 10016

www.horizonkinetics.com
www.indxx.com

Firm Overview

At a Glance



Horizon Kinetics LLC

- Independent, employee owned, serving clients since 1994.
- \$5.9 billion in firm-wide assets under management¹.
- 78 employees.
- Offices in New York City, White Plains, NY and Summit, NJ.

Stable, tenured investment team

- Co-Founders investing together for over 30 years.
 - **Murray Stahl** – Chairman, CEO, and CIO
 - **Steven Bregman** – President, Senior Portfolio Manager and Director of Research
 - **Peter Doyle** – President of Kinetics Mutual Funds, Inc. and Senior Portfolio Manager
- 18 Investment Professionals with an average tenure of 13 years with the firm and 22 years in the industry.

Dedicated Culture

- Committed exclusively to investment research and portfolio management across the capital structure.
- Independent publisher of research for institutional investment community since 1995.
- Adhering to a research-intensive, time-tested fundamental investment philosophy.
- Institutional quality client service and operations infrastructure.

Investment Approach

- Independent Thinking
 - Primary source data driven process.
 - Research analysts culturally guided to overcome confirmation biases and data availability errors.
- Opportunity
 - Seek above market returns with reduced chances of loss by capturing high discount rates associated with the “Equity Yield Curve.”
 - Earn returns of underlying fundamental business and potential narrowing of discount rate.
- Focus
 - Research team and process organized around attributes associated with long-term excess returns.
 - Seek to avoid the permanent loss of capital.
- Differentiated
 - Philosophy and process lead us to explore lesser researched and less frequently trafficked investments.
 - High active share² by design.
- Discipline
 - Portfolio Managers and Research Analysts must write logical, clear and understandable investment theses that withstand internal and external scrutiny.
- Patience
 - Capturing long-term excess returns requires commitment.

¹ As of June 30, 2016

² Active share is a measure of the percentage of holdings in a portfolio that differ from a benchmark index. It is calculated by taking the sum of the differences of the weight of each holding in the portfolio and the weight of each holding in the benchmark index and dividing by two. Active share is measured against the strategy's primary benchmark.

Firm Overview

Strategy and Client Type Overview



Firmwide Assets Under Management¹

\$5.9 B

Separately Managed Accounts²

\$4.3 B

Kinetics Mutual Funds³

\$1.2 B

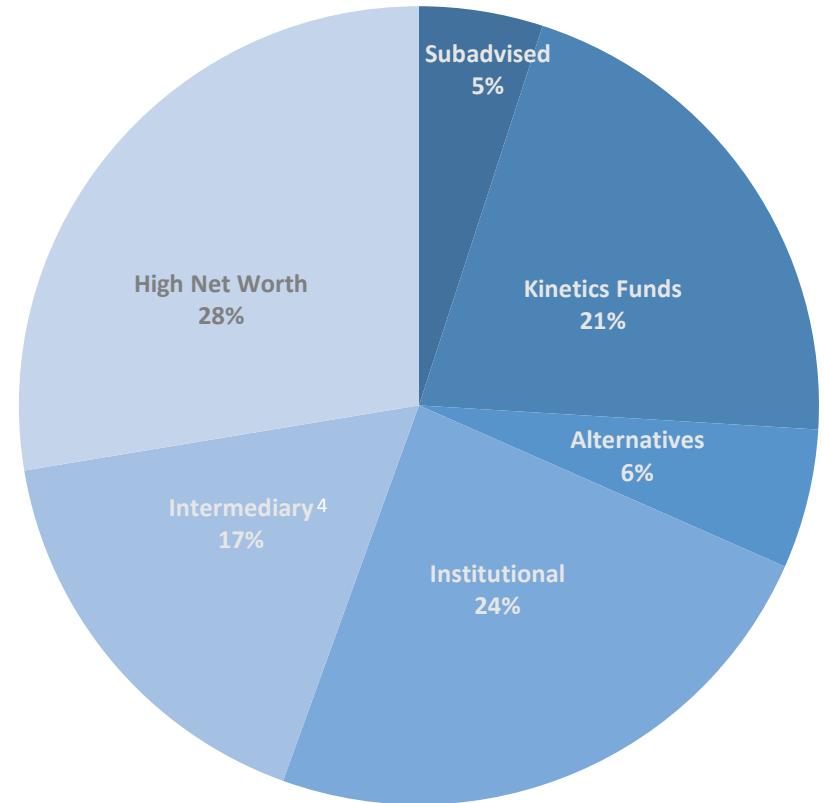
Alternative Investments*

\$0.3 B

Fundamental Predictive Indexes

Horizon Kinetics U.S. Spin-Off Index
Horizon Kinetics International Spin-Off Index
Horizon Kinetics Global Spin-Off Index
Horizon Kinetics ISE US Wealth Index
Horizon Kinetics ISE Global Wealth Index
Horizon Kinetics ISE Asia ex-Japan Wealth Index
Horizon Kinetics ISE International Wealth Index
Horizon Kinetics Japan Founders Index

Client Assets by Type¹



*Additional information available upon request for qualified investors.

¹AUM and client type as of 6/30/2016.

²Includes assets in customized portfolios, other strategies developed for intermediaries, and sub-advised assets.

³Kinetics Mutual Funds, Inc. ("Kinetics Funds") are distributed by Kinetics Funds Distributor LLC ("KFD"), an affiliate of Horizon Kinetics LLC. KFD is not affiliated with the Kinetics Funds.

⁴Includes individual client accounts through intermediaries.

You should consider the investment objectives, risks, charges and expenses of the mutual funds carefully before investing. For a free copy of the mutual funds' prospectus, which contains this and other information, visit our website at www.kineticsfunds.com or call 1-800-930-3828. You should read the prospectus carefully before you invest.

Horizon Kinetics Spin-Off Indexes

Descriptive Versus Predictive Indexes



Descriptive Indexes

Most equity indexes are constructed based on descriptive characteristics or variables.

These variables are based on information consistent with pre-conceived views and are readily available, easily organized, and hence provide little information on how well an index may perform in the future.

Style

(Growth, Core, Value)

Sector/Industry

(Technology, Financials, REITs)

Market Capitalization

(small, mid, large)

Geography

(Country, Region)

Momentum

(Price, Earnings)

Price Risk

(Volatility)

Predictive Indexes

Dynamic, unconventional thinking is required to find successful long-term investments. Horizon Kinetics focuses on attributes that are verifiable but not always readily quantifiable. Indexes are designed to identify variables that have long-term fundamental predictive attributes that ultimately seek outperformance relative to various broad market benchmarks.

Spin-Off

Bits and Pieces

Dormant/Hidden Assets

Owner-Operators

Product Lifecycle

Terms-of-Trade

Scalability

Liquidation

Horizon Kinetics Indexes

Fundamental Predictive Indexes



FUNDAMENTAL PREDICTIVE INDEXES

THE SPIN-OFF INDEXES

OPPORTUNITIES IN SPECIAL SITUATIONS

Tracks the performance of publicly listed spin-offs from large companies divesting small subsidiaries, which often result in a short-term valuation disconnect and potential to unlock shareholder value.

U.S. Spin-Off Index

(Inception Date: June 2013)

International Spin-Off Index

(Inception Date: April 2014)

Global Spin-Off Index

(Inception Date: April 2014)

THE WEALTH INDEXES

LET THE WEALTHY WORK FOR YOU

Tracks the performance of publicly listed companies managed by executives whose track records of skill and specific industry knowledge have made them some of the wealthiest individuals in the world.

U.S. Wealth Index

(Inception Date: August 2011)

Global Wealth Index

(Inception Date: October 2012)

Asia ex-Japan Wealth Index

(Inception Date: October 2012)

International Wealth Index

(Inception Date: April 2014)

Japan Founders Index

(Inception Date: September 2014)

The Horizon Kinetics Spin-Off Indexes are calculated by Indxx and the value of each index is posted on a daily basis, end-of-day, on the Indxx website, www.indxx.com. Horizon Kinetics partnered with the International Securities Exchange (ISE) to launch the Horizon Kinetics ISE Wealth Indexes.

Horizon Kinetics Spin-Off Indexes

Long-Term Fundamental Predictive Indexation



The Horizon Kinetics Spin-Off Indexes provide benchmarks for investors interested in tracking the performance of listed, publicly-held spin-offs that are domiciled and trade in the U.S. and international developed equity markets. These securities generally result from large companies divesting small subsidiaries in a way that bypasses traditional Wall Street coverage, often resulting in a short-term valuation disconnect.

In many cases, spin-off transactions may have the long-term potential to unlock shareholder value that has been obscured by a dysfunctional corporate structure. The use of a spin-off strategy as a predictive index variable, appears to provide relative returns well in excess of the broader market.

The Horizon Kinetics Spin-Off Index uses an equal weighted allocation methodology for all components in the index.

Index components are reviewed quarterly for eligibility, and weights are reset accordingly.

The Horizon Kinetics Spin-Off Indexes are calculated by Indxx and the value of the Total Return Index will be posted on a daily basis, end-of-day, on the Indxx website, www.indxx.com.

THE SPIN-OFF INDEX

OPPORTUNITIES IN SPECIAL SITUATIONS

	U.S. Spin-Off Index	International Spin-Off Index	Global Spin-Off Index
Regions	US Only	Developed Non-US Regions: UK, Western Europe, Pac Rim (Australia, Hong Kong, New Zealand)	US and Non-US Developed Regions
Horizon Kinetics' Definition of Spin-Off	<ul style="list-style-type: none">The initial distribution of shares from the Parent Company does not require action from the receiving shareholders; i.e., share exchanges and carve-outs/IPO are excluded.The Parent Company must have originally distributed at least 80% of the outstanding shares.Excluding limited partnerships, ETFs or CEFs.The component security must be an operating company and not a closed-end fund (CEF) or an exchange traded fund (ETF).The component security cannot be a limited partnership.		
Portfolio Construction and Rebalancing Policy	<ul style="list-style-type: none">Equal WeightedFive-Year Holding PeriodQuarterly Rebalancing		
Market Capitalization and Liquidity Requirements	<ul style="list-style-type: none">Min USD 500M market capitalizationTrailing 20-day average daily value > USD 0.5M		

Horizon Kinetics Spin-Off Indexes

A Long History of Spin-Off Research & Investing



1996

Horizon authors research report entitled "Spin-Offs Revisited: A Review of a Structural Pricing Anomaly".

1996

Horizon begins publishing *The Spin-Off Report*.

1997

Spin-Off research implemented via a dedicated long-only active investment strategy.

2012

15th year of *The Spin-Off Report* and Horizon's long-only Spin-Off strategy has significantly outperformed most equity market indices since inception (net of fees)¹.

2013

Horizon Kinetics Spin-Off Index Launched on June 3, 2013.



Since 1996

- 700+ US Spin Off Reports²
- 60+ Global Spin Off Reports²

¹ Past performance does not guarantee future results. Please refer to the appendix for strategy specific information and important disclosures.

² Includes Spin-Off Flash Reports

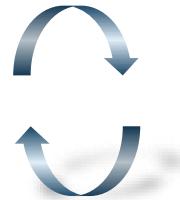
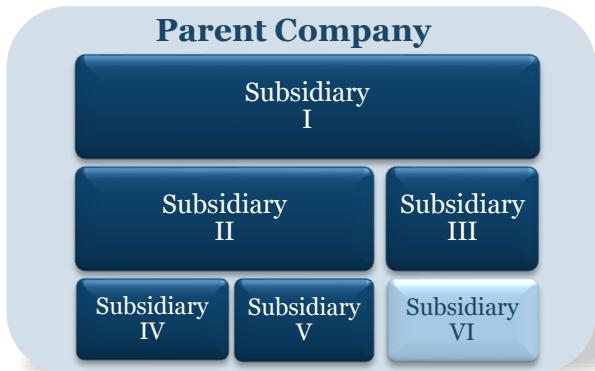
Horizon Kinetics Spin-Off Indexes

Spin-Off Opportunity and Incentive



Opportunity to Improve Efficiency

As a subsidiary of a large conglomerate, management tends to focus on increasing revenue, and controlling costs becomes secondary. Furthermore, subsidiaries are often allocated company expenses that are not necessarily part of their operations.



Independent
Publicly Traded Co.

Empowered Management

Following a spin-off, management is free to implement its business and financial strategies.

- 1) Capital allocation
- 2) Operations and personnel
- 3) Improved alignment of incentives

Horizon Kinetics Spin-Off Indexes

Spin-Off Valuation

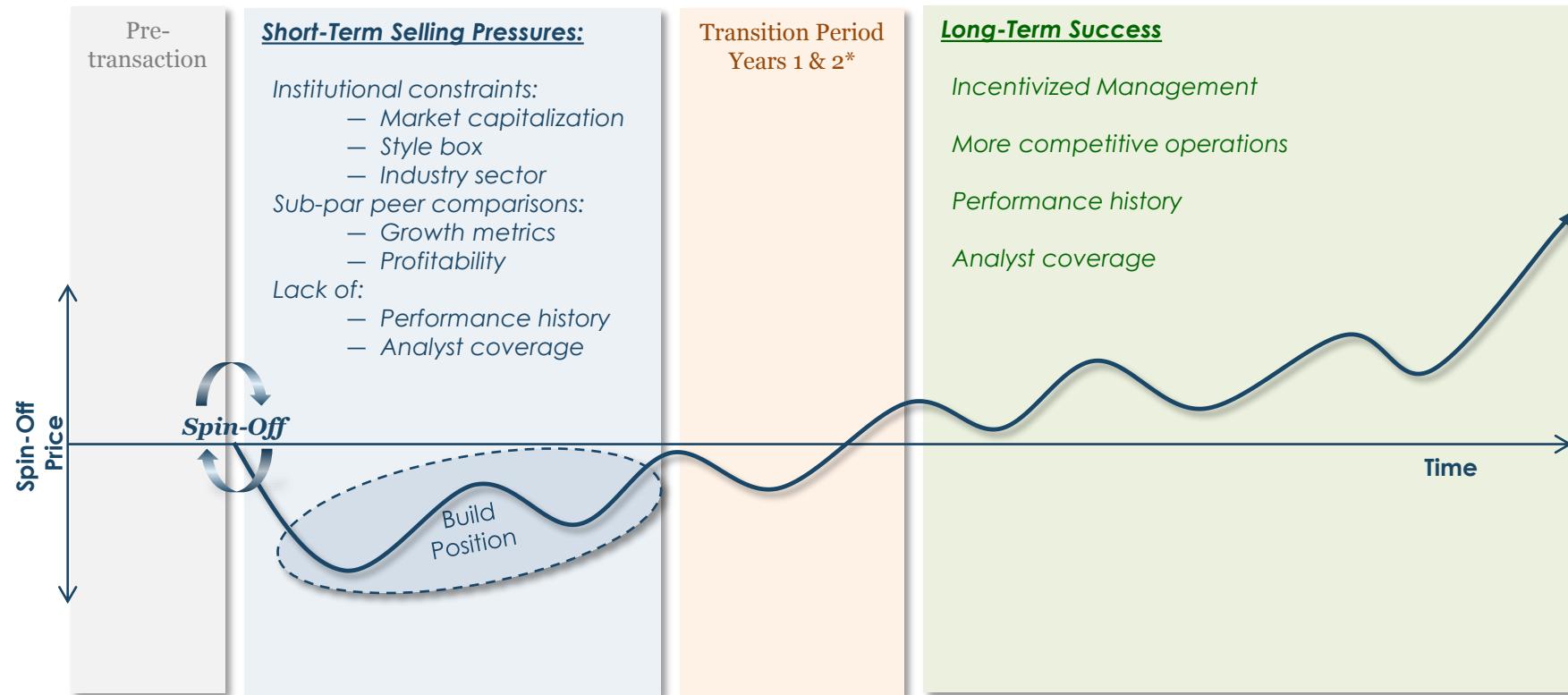


Diagram is strictly for illustrative purposes and does not represent actual investment results.

* Transition time may vary significantly across spin-off investments.

Horizon Kinetics US Spin-Off Index

Performance History and Statistics - As of 7/31/2016



Performance Statistics	MTD	QTD	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	ITD
Total Return (1)	5.6	5.6	14.3	2.6	3.3	13.3	12.3	16.5
S&P 500	3.7	3.7	7.7	5.6	11.2	13.4	7.7	9.1
Excess Return	2.0	2.0	6.7	-3.0	-7.9	0.0	4.6	7.4
Standard Deviation (%)				20.3	16.1	17.0	22.2	20.4
Tracking Error (%)				8.7	8.0	7.9	10.6	10.1
Sharpe Ratio				0.1	0.2	0.8	0.5	0.7
Information Ratio				-0.3	-1.0	0.0	0.4	0.7
Beta				1.3	1.3	1.3	1.3	1.3
UpMkt Capture Ratio (%)				135	97	117	137	148
Down Capture Ratio (%)				163	163	135	127	128
Batting Average				42	42	52	53	57

Cumulative Growth of \$100 (gross)

Time Period: 1/1/2003 to 7/31/2016

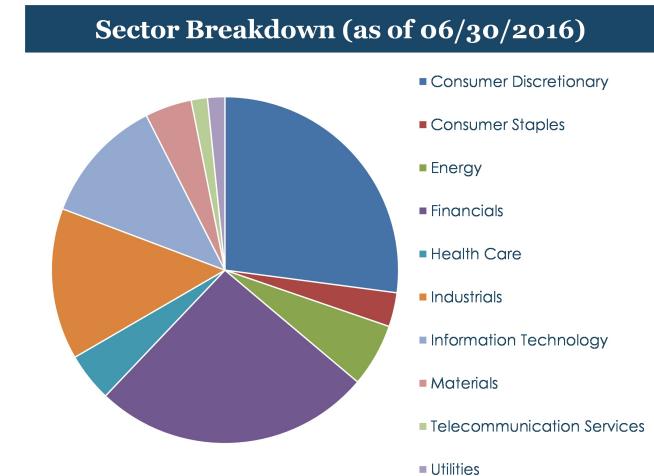


Source: FactSet, Horizon Kinetics LLC, Indxx, Bloomberg. Inception Date: January 2003. Note: (1) Calculated Using Total Returns. The Horizon Kinetics US Spin-Off Index began in June 2013, therefore, a portion of the returns stated above contain back-tested performance. See the disclosures for important considerations when evaluating back-tested performance data. (2) Trailing 12 months data, Weighted harmonic average.

Source: Morningstar Direct

Statistics (as of 06/30/2016)	
Number of Positions	67
Weighted Avg. Market Cap. (B)	6.0
P/E ⁽²⁾	17.8
Price/Sales ⁽²⁾	0.9
Dividend Yield	2.2%

Sample Constituents (as of 06/30/2016)	
Security Name	Distribution Date
Altisource Residential Corp.	12/17/2012
Chemours Co.	7/1/2015
Associated Capital Group, Inc.	11/30/2015
Fortune Brands Home & Security, Inc.	10/4/2011
One Gas, Inc.	1/31/2014



Horizon Kinetics U.S. Spin-Off Index

Historical Statistics



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of Constituents	29	32	28	26	30	28	27	31	29	33	37	40	58	68
Constituents Added		7	7	9	11	9	8	8	7	11	11	10	24	25
Constituents Removed		4	11	11	7	11	9	4	9	7	7	10	6	15
Average Market Cap (\$b)	2.3	2.7	3.4	4.3	4.9	6.3	6.6	7.4	8.5	7.8	8.7	7.9	6.6	6.3

Sector Breakdown

% Market Value	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Consumer Discretionary	14	12	21	23	37	32	33	35	34	24	24	28	26	25
Consumer Staples	10	6	4	4	3	4	11	10	7	6	11	5	3	3
Energy	3	6	7	4	3	4	4	3	7	9	11	12	9	8
Financials	10	6	7	12	10	18	15	13	7	12	11	18	22	25
Health Care	24	28	32	27	20	11	7	6	3	3	3	5	4	6
Industrials	17	16	18	15	7	11	15	10	17	24	27	20	18	15
Information Technology	17	19	11	8	7	14	15	16	21	15	11	10	9	14
Materials	3	6	0	8	10	4	0	6	3	6	3	3	5	3
Telecommunication Services	0	0	0	0	3	4	0	0	0	0	0	0	2	1
Utilities	0	0	0	0	0	0	0	0	0	0	0	0	2	1

Source: FactSet, Horizon Kinetics LLC, Indxx

The Horizon Kinetics U.S. Spin-Off Index began in June 2013, therefore, a portion of the statistics stated above rely upon back-tested data. See the Disclosure slide for important considerations when evaluating back-tested data.

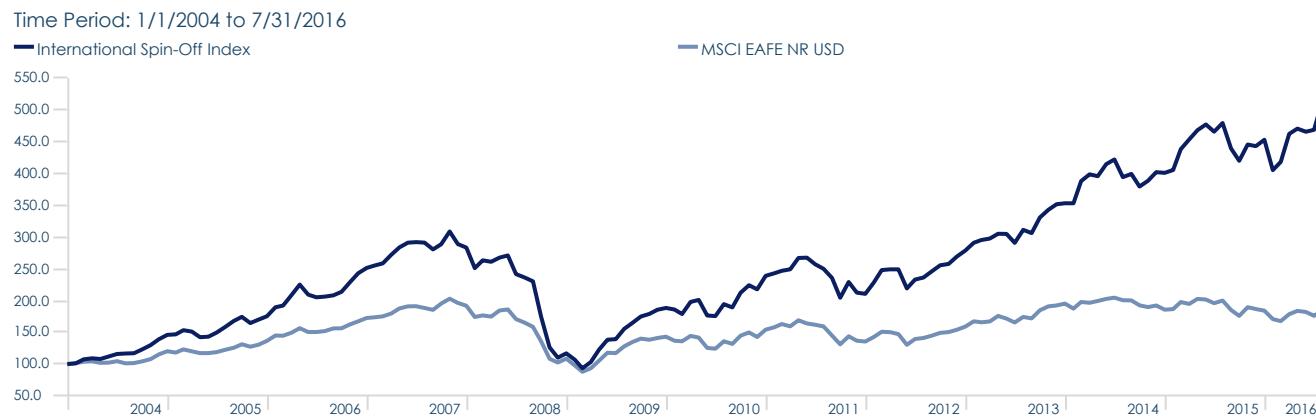
Horizon Kinetics International Spin-Off Index



Performance History and Statistics - As of 7/31/2016

Performance Statistics	MTD	QTD	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	ITD
Total Return (1)	9.9	9.9	13.7	7.5	18.3	15.6	9.6	13.9
MSCI EAFE	5.1	5.1	0.4	-7.5	2.0	3.0	2.0	5.0
Excess Return	4.9	4.9	13.3	15.0	16.3	12.5	7.6	8.9
Standard Deviation (%)				22.4	16.5	18.5	23.9	22.2
Tracking Error (%)				10.0	8.5	7.8	9.0	8.7
Sharpe Ratio				0.3	1.1	0.8	0.4	0.6
Information Ratio				1.5	1.9	1.6	0.8	1.0
Beta				1.1	1.1	1.1	1.2	1.2
UpMkt Capture Ratio (%)				127	131	125	127	132
Down Capture Ratio (%)				68	48	70	98	99
Batting Average				58	69	68	69	70

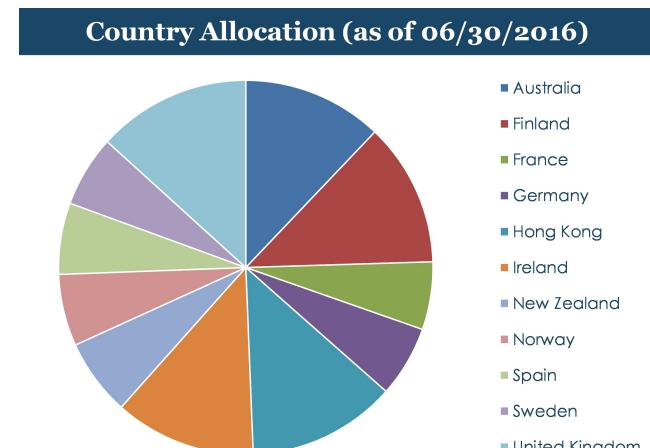
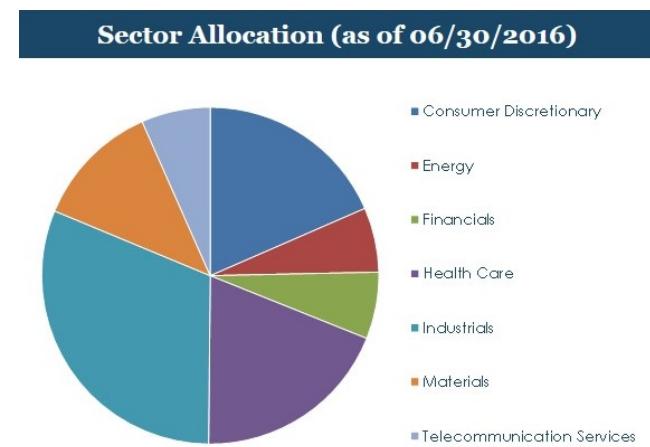
Cumulative Growth of \$100 (gross)



Source: FactSet, Horizon Kinetics LLC, Indxx, Bloomberg. Inception Date: January 2004. Note: (1) Calculated Using Total Returns. The Horizon Kinetics International Spin-Off Index began in April 2014, therefore, a portion of the returns stated above contain back-tested performance. See the disclosures for important considerations when evaluating back-tested performance data. (2) Trailing 12 months data, Weighted harmonic average

Source: Morningstar Direct

Statistics (as of 06/30/2016)	
Number of Positions	16
Weighted Avg. Market Cap. (B)	4.2
P/E ⁽²⁾	18.5
Price/Sales ⁽²⁾	0.6
Dividend Yield	1.9%



Horizon Kinetics International Spin-Off Index



Historical Statistics

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of Constituents	25	24	25	32	32	17	23	24	22	20	25	28	21
Constituents Added		4	10	15	10	1	9	9	6	5	12	5	4
Constituents Removed		5	9	8	10	16	3	8	8	7	7	2	11
Average Market Cap (\$b)	4.2	5.8	3.1	3.8	4.6	3.6	4.1	4.6	4.0	2.6	2.8	2.9	3.7
Sector Breakdown													
% Market Value	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Consumer Discretionary	32	37	28	19	19	18	13	12	14	10	24	25	24
Consumer Staples	4	4	0	0	0	0	0	0	5	15	4	4	5
Energy	4	4	8	6	9	12	13	4	0	5	4	4	5
Financials	16	8	8	13	12	6	13	13	14	15	8	7	9
Health Care	8	8	4	0	3	6	4	4	5	0	8	7	14
Industrials	8	8	20	22	25	18	22	25	23	15	24	25	24
Information Technology	0	0	0	0	3	6	4	4	5	0	4	4	0
Materials	24	25	28	31	22	24	26	21	23	25	16	18	15
Telecommunication Services	4	4	0	0	0	0	4	17	14	15	8	7	5
Utilities	0	0	0	3	0	0	0	0	0	0	0	0	0
Other	0	0	4	6	6	12	0	0	0	0	0	0	0
Country Breakdown													
% Market Value	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	16	17	12	9	6	12	9	17	23	20	24	22	19
Belgium	0	0	4	6	3	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	3	0	0	0	0	0	0	0	0
Denmark	4	4	4	0	0	0	0	0	0	0	0	0	0
Finland	0	0	8	9	6	12	9	4	5	5	4	11	9
France	0	0	0	3	3	6	4	8	5	5	8	7	5
Germany	8	8	12	9	6	6	4	0	0	0	4	3	5
Hong Kong	0	0	0	0	0	0	4	4	5	5	4	4	14
Ireland	0	0	0	3	6	12	9	8	5	0	8	7	9
Italy	8	8	8	13	3	0	0	0	5	0	4	4	0
Luxembourg	0	0	0	0	0	6	0	0	5	5	4	3	5
Netherlands	8	0	4	3	0	0	0	0	0	5	0	0	0
New Zealand	4	4	4	0	0	0	0	0	5	5	0	4	5
Norway	0	4	8	6	9	12	4	0	0	5	4	4	5
Portugal	0	0	0	6	9	6	13	4	5	0	0	0	0
Spain	4	4	4	3	3	0	0	0	5	5	4	4	5
Sweden	12	13	8	9	12	6	17	17	9	15	4	4	5
Switzerland	4	4	0	0	3	6	9	8	9	10	8	7	5
United Kingdom	32	33	24	19	25	18	17	29	18	15	20	18	9

Source: FactSet, Horizon Kinetics LLC, Indxx

The Horizon Kinetics International Spin-Off Index began in April 2014, therefore, a portion of the statistics stated above rely upon back-tested data. See the Disclosure slide for important considerations when evaluating back-tested data.

Horizon Kinetics Global Spin-Off Index

Performance History and Statistics - As of 7/31/2016



Performance Statistics	MTD	QTD	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	ITD
Total Return (1)	6.5	6.5	14.2	3.8	8.0	13.5	11.0	14.0
MSCI World	4.2	4.2	4.9	-0.5	6.6	7.9	4.8	6.2
Excess Return	2.2	2.2	9.3	4.2	1.4	5.6	6.2	7.8
Standard Deviation (%)				20.3	15.4	16.8	22.1	20.4
Tracking Error (%)				6.9	6.4	6.4	8.4	7.9
Sharpe Ratio				0.2	0.5	0.8	0.5	0.6
Information Ratio				0.6	0.2	0.9	0.7	1.0
Beta				1.2	1.2	1.2	1.3	1.3
UpMkt Capture Ratio (%)				135	118	130	134	140
Down Capture Ratio (%)				113	116	109	112	111
Batting Average				58	58	65	66	68

Cumulative Growth of \$100 (gross)

Time Period: 1/1/2004 to 7/31/2016

— Global Spin-Off Index

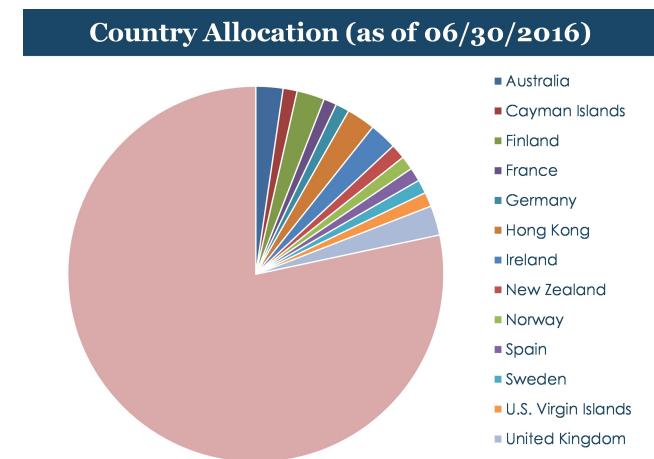
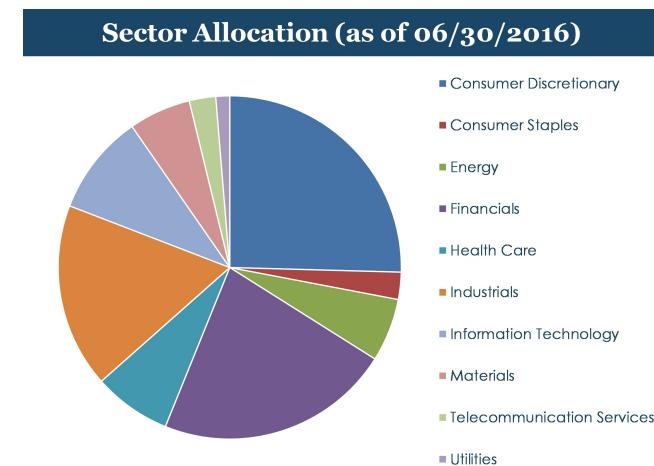
— MSCI World NR USD



Source: FactSet, Horizon Kinetics LLC, Indxx, Bloomberg. Inception Date: January 2004. Note: (1) Calculated Using Total Returns. The Horizon Kinetics Global Spin-Off Index began in April 2014, therefore, a portion of the returns stated above contain back-tested performance. See the disclosures for important considerations when evaluating back-tested performance data. (2) Trailing 12 months data, Weighted harmonic average

Source: Morningstar Direct

Statistics (as of 06/30/2016)	
Number of Positions	83
Weighted Avg. Market Cap. (B)	5.7
P/E ⁽²⁾	18.0
Price/Sales ⁽²⁾	0.8
Dividend Yield	2.2%



Horizon Kinetics Global Spin-Off Index



Historical Statistics

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of Constituents	57	52	51	62	60	44	54	53	55	57	65	86	89
Constituents Added		11	19	26	19	9	17	16	17	16	26	29	29
Constituents Removed		16	20	15	21	25	7	17	15	14	18	8	26
Average Market Cap (\$b)	3.4	4.5	3.7	4.3	5.4	5.4	6.0	6.7	6.3	6.6	6.0	5.4	5.7
Sector Breakdown													
% Market Value	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Consumer Discretionary	21	29	25	27	25	27	26	25	20	19	26	26	25
Consumer Staples	5	4	2	2	2	7	6	4	5	12	5	3	3
Energy	5	6	6	5	7	7	7	6	5	9	9	7	7
Financials	11	8	10	11	15	11	13	9	13	12	14	17	21
Health Care	19	21	16	10	7	7	6	4	4	2	6	5	8
Industrials	12	13	18	15	18	16	15	21	24	23	22	20	17
Information Technology	11	6	4	3	8	11	11	13	11	7	8	7	10
Materials	14	12	18	21	13	9	15	11	13	11	8	9	6
Telecommunication Services	2	2	0	2	2	0	2	8	5	5	3	4	2
Utilities	0	0	0	2	0	0	0	0	0	0	0	1	1
Other	0	0	2	3	3	5	0	0	0	0	0	0	0
Country Breakdown													
% Market Value	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	7	8	6	5	3	5	4	8	9	7	9	7	5
Belgium	0	0	2	3	2	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	2	0	0	0	0	0	0	0	0
Canada	2	2	2	2	0	0	0	0	0	0	0	0	0
Cayman Islands	0	0	0	0	0	0	0	0	0	0	0	0	1
Denmark	2	2	2	0	0	0	0	0	0	0	0	0	0
Finland	0	0	4	5	3	5	4	2	2	2	2	3	2
France	0	0	0	2	2	2	2	4	2	2	3	2	1
Germany	4	4	6	5	3	2	2	0	0	0	2	1	1
Hong Kong	0	0	0	0	0	0	2	2	2	2	2	1	3
Ireland	0	0	0	2	3	5	4	4	2	0	3	2	2
Italy	4	4	4	6	2	0	0	0	2	0	2	1	0
Luxembourg	0	0	0	0	0	2	0	0	2	2	2	1	1
Netherlands	4	0	2	2	0	0	0	0	0	2	0	0	0
New Zealand	2	2	2	0	0	0	0	0	2	2	0	1	1
Norway	0	2	4	3	5	5	2	0	0	2	2	1	1
Portugal	0	0	0	3	5	2	6	2	2	0	0	0	0
Spain	2	2	2	2	2	0	0	0	2	2	2	1	1
Sweden	5	6	4	5	7	2	7	8	4	5	2	1	1
Switzerland	2	2	0	0	2	2	4	4	4	4	3	2	1
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	2	2	1
United Kingdom	14	15	12	10	13	7	7	13	7	5	8	6	2
United States	54	52	49	47	47	61	57	55	60	65	60	65	74

Source: FactSet, Horizon Kinetics LLC, Indxx

The Horizon Kinetics Global Spin-Off Index began in April 2014, therefore, a portion of the statistics stated above rely upon back-tested data. See the Disclosure slide for important considerations when evaluating back-tested data.

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Horizon Kinetics Index Investment Team

Biographies

Murray Stahl

Chairman, Chief Executive Officer, Chief Investment Officer

Murray is Chief Executive Officer, Chairman of the Board of Horizon Kinetics and is a co-founder of the Firm. He has over thirty years of investing experience and is responsible for overseeing the Firm's proprietary research. Murray serves as the Firm's Chief Investment Officer, and chairs the Firm's Investment Committee, which is responsible for portfolio management decisions across the entire Firm. He is also the Co-Portfolio Manager for a number of registered investment companies, private funds, and institutional separate accounts. Additionally, Murray is the Chairman and Chief Executive Officer of FRMO Corp. He is also a member of the Board of Directors of the Bermuda Stock Exchange, the Minneapolis Grain Exchange, Winland Electronics, Inc., and IL&FS Securities Services Limited. Prior to co-founding the Firm, Murray spent 16 years at Bankers Trust Company (1978-1994) as a senior portfolio manager and research analyst. As a senior fund manager, he was responsible for investing the Utility Mutual Fund, along with three of the bank's Common Trust Funds: The Special Opportunity Fund, The Utility Fund, and The Tangible Assets Fund. He was also a member of the Equity Strategy Group and the Investment Strategy Group, which established asset allocation guidelines for the Private Bank. Murray received a Bachelor of Arts in 1976, a Masters of Arts in 1980 from Brooklyn College, and an MBA from Pace University in 1985.

Aya Hirato Weisman, CFA ®

Senior Portfolio Manager, Director of Asia Strategy

Aya joined the firm in 2010, as a Co-Portfolio Manager for the Asia Strategy. With over 30 years of investment experience, Aya was previously a founder and Chief Investment Officer of AS Hirota Capital Management, LLC. Prior to that, her experiences included acting as a portfolio manager specializing in Japanese securities for Kingdon Capital Management, LLC, a New York-based hedge fund; two years as a partner and Portfolio Manager of Feirstein Hirota Japan Partners, a Japanese long/short hedge fund; and 12 years at Salomon Smith Barney Asset Management, as a Managing Director and Senior Portfolio manager in the US value equity group where she was a founding member of the large cap value equity group, with responsibility for approximately \$2 billion in assets. She also worked as a securities analyst covering global technology and consumer sectors at Equitable Capital Management. Aya is a director of SBI Holdings, Inc. in Japan. Aya received an MBA from the International Institute for Management Development (IMD) in Lausanne, Switzerland and a BA in Liberal Arts from International Christian University in Tokyo, Japan. She also studied at Chung Chi College at the Chinese University of Hong Kong, as a Japanese Ministry of Education Scholar. Aya is a CFA® charter holder and Co-Vice Chairman of the Board of Friends Without A Border.



Ryan Casey, CFA ®

Research Analyst

Ryan joined the Firm in 2011 and is responsible for authoring certain of the Firm's proprietary research reports. He has been involved in writing various research reports since 2008, when he was a senior analyst with Institutional Research Group. Ryan is an experienced equity research analyst, and was previously a senior analyst with Bear Stearns. He received a BS in Electrical Engineering from the University of Michigan, an MBA from New York University and is a CFA® charter holder.

Matthew Houk

Portfolio Manager, Research Analyst

Matt joined the Firm in 2008 and has responsibilities in both Research and Portfolio Management. Matt is a member of the Investment Committee and has responsibilities in the identification, analysis and monitoring of certain investment opportunities for the Firm. He is also a Co-Portfolio Manager for several registered investment companies including the Small Cap Opportunities Fund, the Multi-Disciplinary Income Fund, the Alternative Income Fund as well as the Virtus Wealth Masters Fund and the Virtus International Wealth Masters Fund, which are sub-advised by Horizon Asset Management LLC. Previously, Matt was an Associate with Goldman, Sachs & Co. He received a BA in Economics and Political Science from Yale University.

Utako Kojima, CFA ®

Portfolio Analyst

Utako joined the Firm in 2010 as a Portfolio Analyst, primarily focusing on the Firm's Asia Strategy. Prior to this, Utako was an equity analyst at AS Hirota Capital Management, LLC. Her experience includes consulting in the Valuation Division at Shin-Nihon Ernst & Young Transaction Advisory Services, Tokyo, Japan. Previously, she served in the International Products Client Service and Sales Operation group at Deutsche Securities Limited, Tokyo, Japan managing post transaction processes and client services. Utako received a BA in Political Science from Keio University, Tokyo, Japan, and is a CFA® charter holder.

Disclosures



The Horizon Kinetics U.S. Spin-Off Index, Global Spin-Off Index and International Spin-Off Index were created by Horizon Kinetics LLC ("Horizon Kinetics"). Indxx, LLC ("Indxx"), a third party, has a contractual arrangement with Horizon Kinetics whereby it has agreed to calculate certain index components.

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The MSCI EAFE Index (Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada. The MSCI EAFE Index is property of MSCI.

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