

Frontrunning Risiken – Wenn zu viel Transparenz zum Risiko wird

Factor Investing vs. Smart-Beta-Strategien

Wiesbadener Investorentag

8. Juni 2017

Dr. Bernhard Breloer

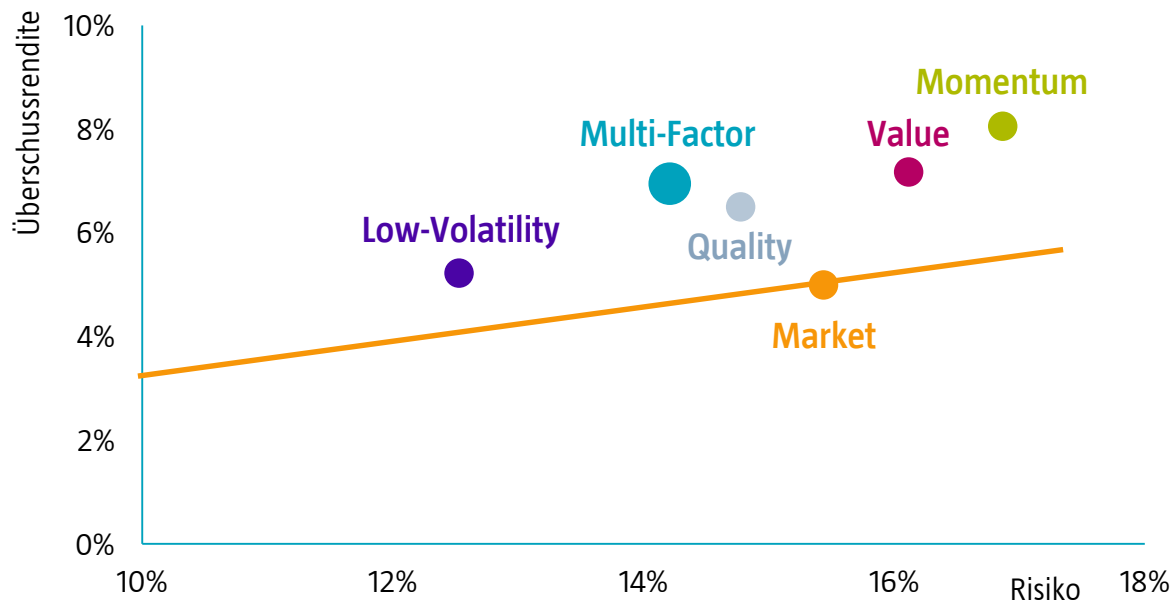
For professional investors

Warum sind Faktorstrategien für Investoren interessant?

Akademische Literatur

- > Die überwiegende Anzahl von aktiven Fonds underperformen (nach Kosten)
- > Die Performance der erfolgreichen Fonds kann im Wesentlichen durch Faktor-Prämien erklärt werden.

Historische Performance von einfachen Faktorstrategien



Quelle: Blitz, "Factor Investing Revisited", *Journal of Index Investing*, 2015. Performance figures for generic U.S. value-weighted factor portfolios from 1963:07 to 2014:12. Quality is defined as the equal weighted combination of the Profitability and Investment factor portfolios.

Aktive Faktorstrategien vs. Smart Beta Indizes: Ein Unterschied?

Factor Investing

- > Systematische Allokation zu Faktorprämien
- > Z. B. Value, Momentum, Low-Volatility, Quality

Smart-Beta-Indizes

- > Regelbasierte Indizes, die gezielt von einer marktwertbasierten Index abweichen
- > Z. B. Fundamental Indexing, MinVol Indizes



Eignen sich Smart-Beta-Indizes als Werkzeug zur Implementierung von Faktorstrategien?

- > Smart-Beta-Indizes können verwendet werden, um Faktorstrategien umzusetzen!
- > **ABER: Smart-Beta-Indizes weisen auch Verbesserungspotenzial auf**

Welche Bedenken haben Investoren bezogen auf Smart-Beta-Produkte?

FTSE Russell Survey 2016

Implementation concerns	Concern rank		
	2014	2015	2016
How to determine the best strategy or combination of strategies for my portfolio	1	1	1
Unintended factor biases	2	2	2
Unintended sector biases	5	5	3
High turnover	9	8	4
Underperforming the benchmark index	6	3	5
How to determine the % of portfolio to allocate	3	6	6
If used tactically, how to monitor and adjust exposures	4	4	7
Cost of implementation	8	7	8
Lack of transparency	7	9	9
How to time the implementation of the strategy	11	11	10
Tracking error to the benchmark	10	10	11

Quelle: FTSE Russell. Smart beta: 2016 global survey findings from asset owners.

Agenda

Smart-Beta-Indizes vs. aktive Faktorstrategien

- > Fallstrick 1: Unnötige Risiken
- > Fallstrick 2: Richtiges Faktormanagement
- > Fallstrick 3: Effiziente Portfoliokonstruktion
- > Fallstrick 4: Optimale Faktordefinition
- > Fallstrick 5: Gefahr von Frontrunning

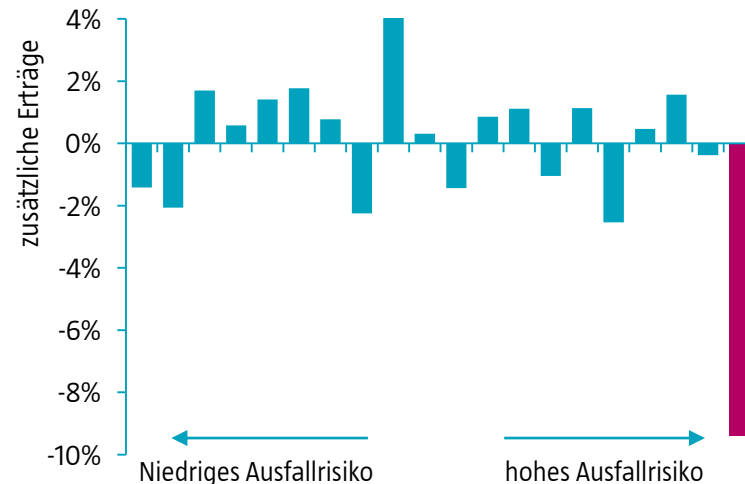
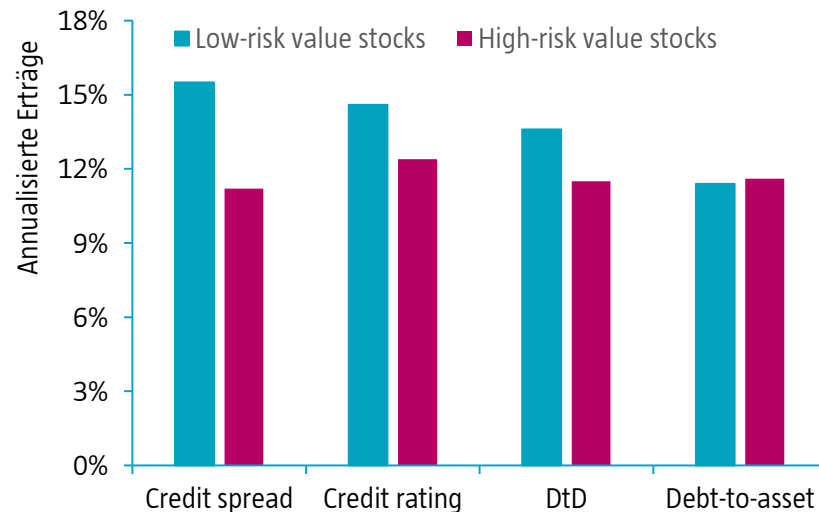
Fallstrick 1: Smart-Beta-Indizes können unnötige Risiken eingehen

Beispiel: Value-Fallen

- Einfache Value-Strategien allokkieren Aktien, die aus gutem Grund günstig sind
- Z. B. Aktien mit hohem Ausfallrisiko oder schwachen operativen Ergebnissen



Relation zusätzliche Erträge (Outperformance) von Value und Ausfallrisiko in den Emerging Markets: 1993 -2014



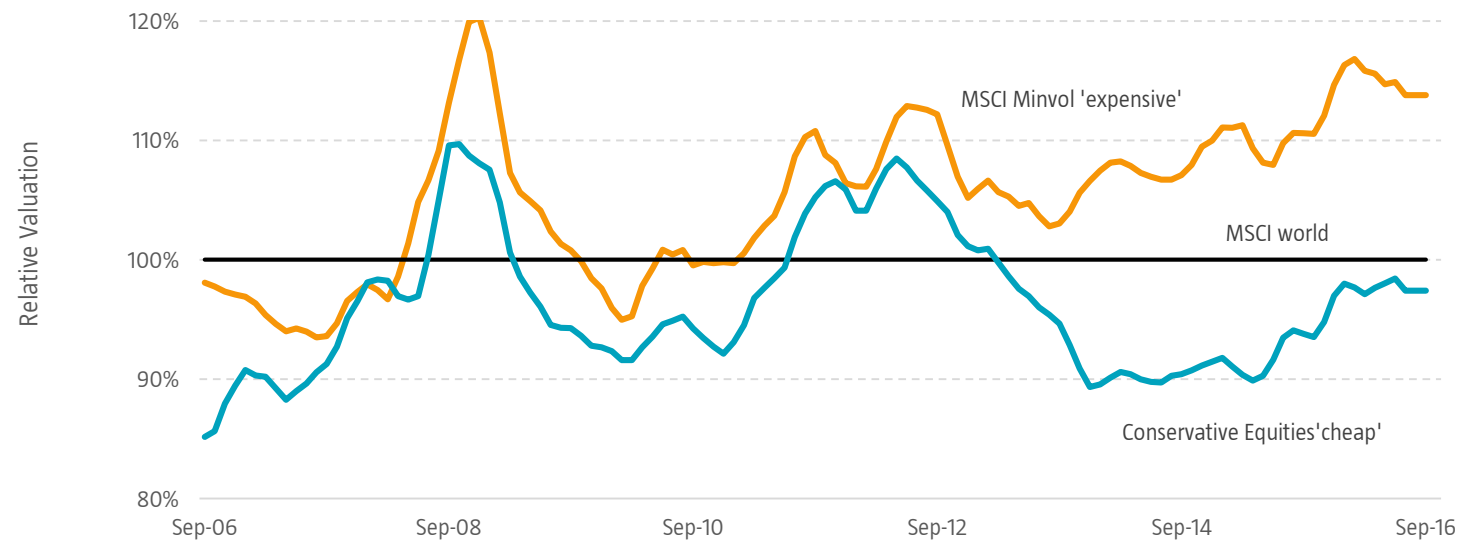
Source: Robeco Quantitative Equities. Left chart: Based on De Groot & Huij (2015), "Are the Fama-French factors really a compensation for distress risk?", SSRN working paper no. 1840551. Right chart: Based on monthly rankings of the MSCI Emerging Markets Index by Robeco's distance-to-default factor assuming a one-month holding period (ignoring transaction costs) over the period January 1993 – December 2014.

Fallstrick 2: Smart-Beta-Indizes wenden sich gegen erwiesene Faktoren

Beispiel: Bewertung von Low-Risk-Strategien

- MSCI Minimum Volatility Index berücksichtigt nicht explizit Value
- Folge: Aktuell je nach Region bis zu 20 % teurer als der Marktindex

Relative Bewertung eines Minvol Index und einer globalen Robeco Conservative Strategie, 2006-2016



Quelle: Robeco, August 2016; Polfliet/van Vliet; "Low-Vol investing: Is there still value in low-volatility?"

Fallstrick 3: Smart-Beta-Indizes haben eine ineffiziente Portfoliokonstruktion

Ineffiziente Nutzung von Cashflows

- › Kauf des alten Portfolios anstelle einer neuen Optimierung

Ausrichtung des Anlageuniversums

- › Faktorprämien sind auch im Small/Mid-Cap Segment vorhanden
- › Off-Benchmark Positionen?

Länder- und Sektorkonzentrationen – Das richtige Maß

- › Verringerter Faktor-Exposure durch zu eng gewählte Restriktionen *oder*
- › Zu extreme Länder- und Sektorallokationen aufgrund fehlender Restriktionen



Fallstrick 4: Definitionen von Faktoren in Smart-Beta-Indizes können effizienter sein

Industrie Quality-Definitionen

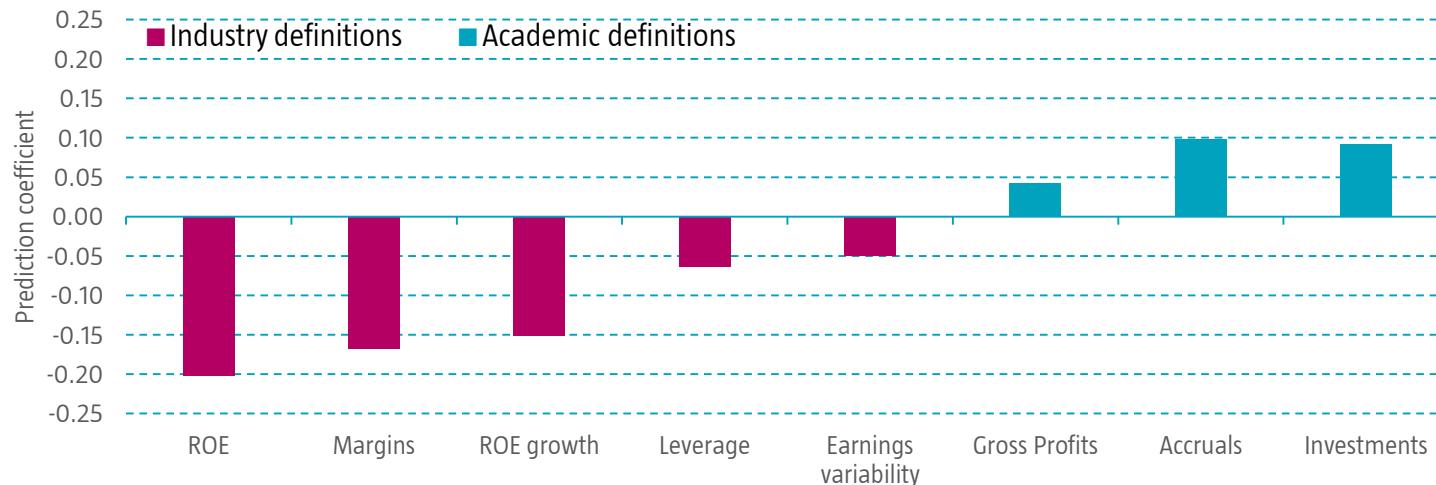
- > Return on Equity/Assets
- > Verschuldungsgrad
- > Gewinnstabilität, ...



Akademische Quality-Definitionen

- > Nettoausschüttung
- > Rückstellungen
- > (Brutto-)Profitabilität

Quality premium: Welche Variablen zeigen einen Zusammenhang mit zukünftigen Gewinnwachstum auf?



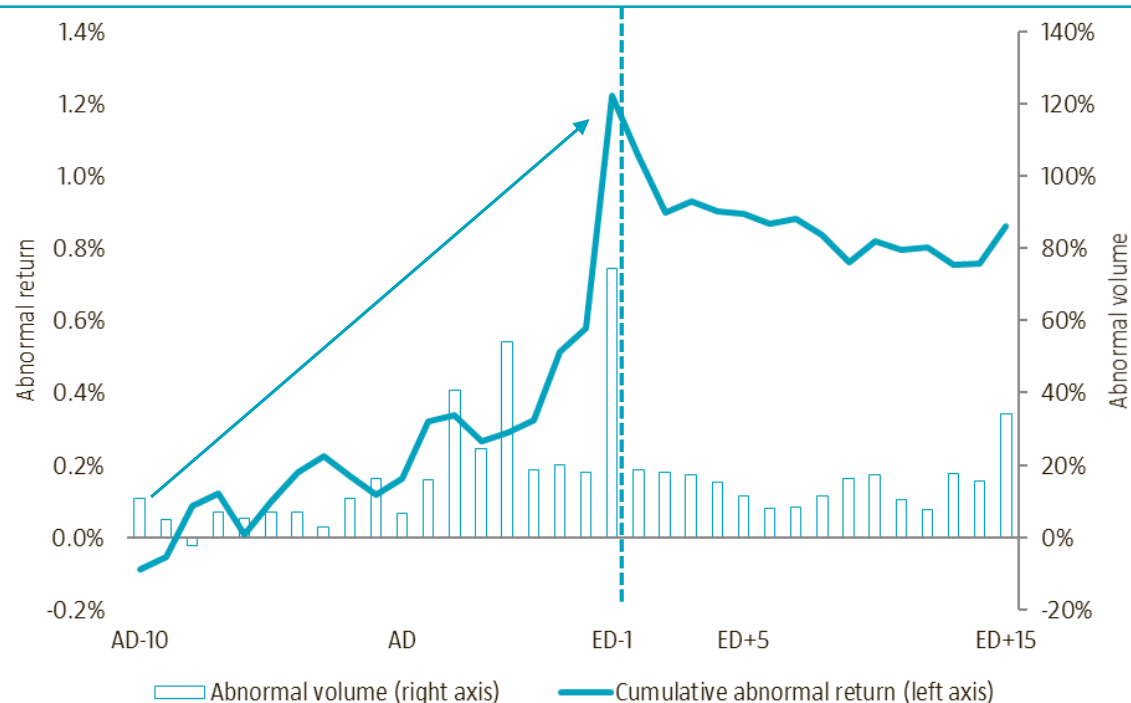
Quelle: Adopted from Kyosev, Hanauer, Huij and Lansdorp (2016, working paper). The graph shows coefficients from a regression of future earnings growth on 'academic-based' quality definition and 'industry-based' quality definition. The 'academic' composite consists of standardized accruals, gross profitability and investments, the 'industry' composite consists of ROE, margins, ROE growth, leverage, and earnings variability. The sample period is from January 1986 to December 2014 for United States, Europe Japan and developed markets and from January 1993 to December 2014 for emerging markets.

Fallstrick 5: Smart-Beta-Indizes können Opfer von Frontrunning sein

Die Kehrseite von Transparenz & Einfachheit

- > Ist es gut, dass jeder vorher weiß, welche Trades ausgeführt werden?
- > Folgen: Frontrunning; limitierte Kapazität

Untersuchung: Abnormales Handelsvolumen und Renditen vor dem Index-Rebalancing



Quelle: Huij and Kyosev, 2016, Working paper. Results are calculated for MSCI Minimum Volatility USD indexes, returns are in USD. The graphs show the average cumulative outperformance and abnormal volume of new over all constituents in the MSCI Minimum Volatility indexes during Sep-2010 – Dec-2015. AD is announcement day, ED is effective day

Ausblick: Risiko starker Mittelzuflüsse in Faktorstrategien

Overcrowding in Smart-Beta-Strategien?

- Teure Bewertung von Low-Vol-ETFs (vgl. auch Fallstrick 2)
- Nachfrage im Low-Vol-ETFs wird durch Nachfrage in High-Beta-Strategien ausgeglichen
- Hedgefonds ignorieren Low-Vol-Aktien

Figure 1B: Market beta 0 to 1.75 range

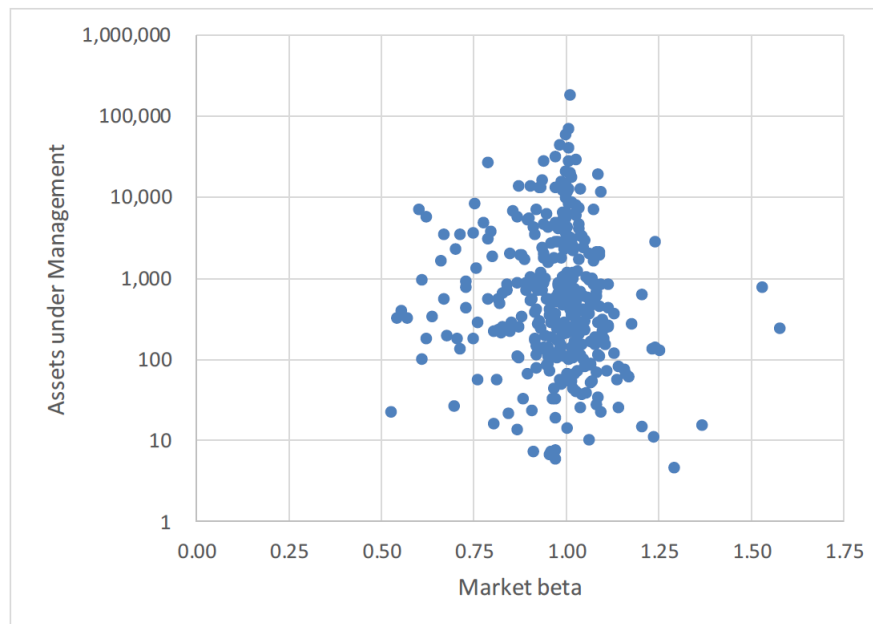
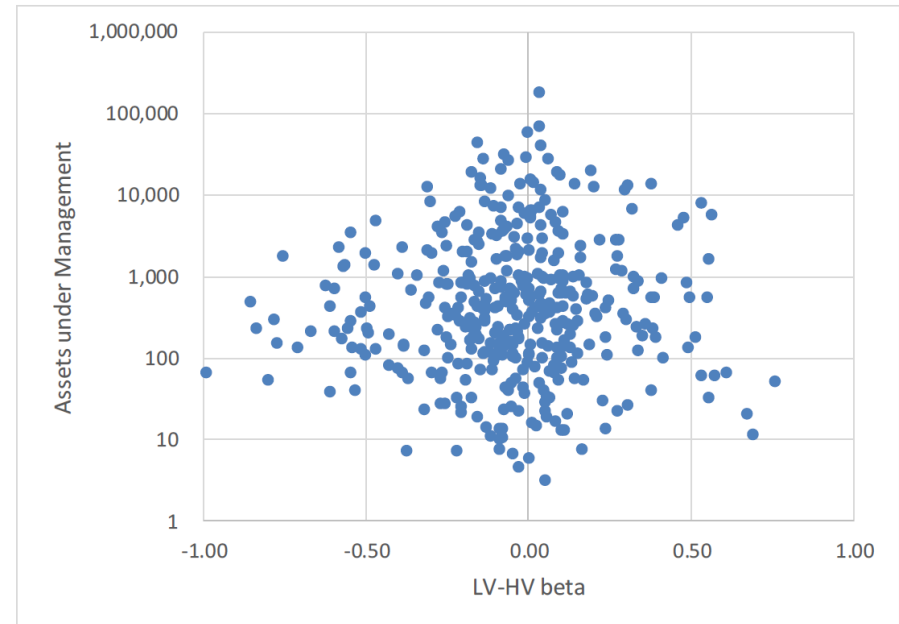


Figure 5B: LV-HV beta -1 to 1 range



Quelle: Blitz, David (2017): "Are Exchange-Traded Funds Harvesting Factor Premiums?" Working paper.

Zusammenfassung

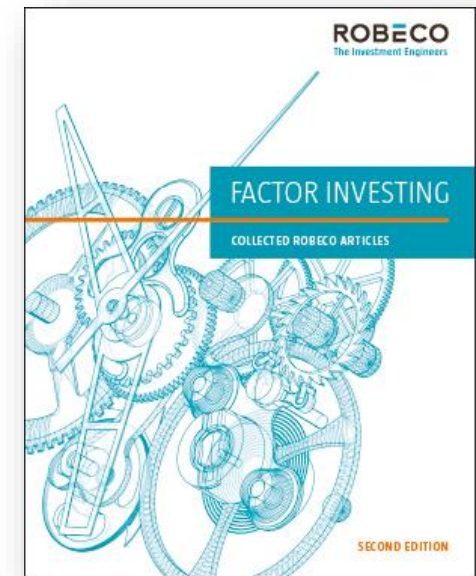
Smart-Beta-Indizes haben einige ansprechende Eigenschaften

- > “Einfache” Konstruktion
- > Transparenz
- > Günstig

Aber: Es gibt Verbesserungspotenzial bezogen auf...

- > Risikoreduktion
- > Faktormanagement
- > Portfoliokonstruktion und -rebalancing
- > Faktordefinition
- > Transparenz → Gefahren des Frontrunning

Weitere Informationen: www.robeco.com/factorinvesting



Important Information

Robeco Institutional Asset Management B.V., hereafter Robeco, has a license as manager of UCITS and AIFs from the Netherlands Authority for the Financial Markets in Amsterdam. Without further explanation this presentation cannot be considered complete. It is intended to provide the professional investor with general information on Robeco's specific capabilities, but does not constitute a recommendation or an advice to buy or sell certain securities or investment products. All rights relating to the information in this presentation are and will remain the property of Robeco. No part of this presentation may be reproduced, saved in an automated data file or published in any form or by any means, either electronically, mechanically, by photocopy, recording or in any other way, without Robeco's prior written permission. The information contained in this publication is not intended for users from other countries, such as US citizens and residents, where the offering of foreign financial services is not permitted, or where Robeco's services are not available. The prospectus and the Key Investor Information Document for the Robeco Funds can all be obtained free of charge at www.robeco.com.

Additional Information for investors with residence or seat in Germany

This information is solely intended for professional investors or eligible counterparties in the meaning of the German Securities Trading Act.

Additional Information for investors with residence or seat in Hong Kong

This document has been distributed by Robeco Hong Kong Limited ('Robeco'). Robeco is licensed and regulated by the Securities and Futures Commission in Hong Kong. The contents of this document have not been reviewed by any regulatory authority in Hong Kong. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

Additional Information for investors with residence or seat in Singapore

This document has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this document and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of Shares may not be circulated or distributed, nor may Shares be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 304 of the Securities and Futures Act, Chapter 289 of Singapore (the "SFA") or (ii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Additional Information for investors with residence or seat in Australia

This document is distributed in Australia by Robeco Hong Kong Limited (ARBN 156 512 659) ('Robeco') which is exempt from the requirement to hold an Australian financial services licence under the Corporations Act 2001 (Cth) pursuant to ASIC Class Order 03/1103. Robeco is regulated by the Securities and Futures Commission under the laws of Hong Kong and those laws may differ from Australian laws. This document is distributed only to wholesale clients as that term is defined under the Corporations Act 2001 (Cth). This document is not for distribution or dissemination, directly or indirectly, to any other class of persons. It is being supplied to you solely for your information and may not be reproduced, forwarded to any other person or published, in whole or in part, for any purpose.

Additional Information for investors with residence or seat in the United Arab Emirates

Robeco Institutional Asset Management B.V. (Dubai Office), Office 209, Level 2, Gate Village Building 7, Dubai International Financial Centre, Dubai, PO Box 482060, UAE. Robeco Institutional Asset Management B.V. (Dubai office) is regulated by the Dubai Financial Services Authority ("DFSA") and only deals with Professional Clients and does not deal with Retail Clients as defined by the DFSA.

Additional Information for investors with residence or seat in France

In remuneration for its advisory and distribution activities in respect of the group's UCITS, the parent company will pay the entity in France a fee, in application of all the rules laid down by the Robeco Group with regard to transfer pricing:
- equivalent to 1/3 of the management fees applied to institutional-type units that do not give rise to a distribution fee (which distributor "clients" such as private banks would receive, for example).
- equivalent to 2/3 of the management fees applied to "all investors" units that may, provided there is an agreement in place, give rise to payment of a distribution fee (which distributor "clients" such as private banks would receive, for example) up to a maximum 50% of the management fees of the underlying UCIT. RIAM is a Dutch asset management company approved by the AFM (Netherlands financial markets authority), having the freedom to provide services in France. Robeco France has been approved by the French prudential control and resolution authority (formerly ACP, now the ACPR) as an investment firm since 28 September 2012.

Additional Information for investors with residence or seat in Spain

The Spanish branch Robeco Institutional Asset Management BV, Sucursal en España, having its registered office at Paseo de la Castellana 42, 28046 Madrid, is registered with the Spanish Authority for the Financial Markets (CNMV) in Spain under registry number 24.

Additional Information for investors with residence or seat in Switzerland

RobecoSAM AG has been authorized by the FINMA as Swiss representative of the Fund, and UBS AG as paying agent. The prospectus, the articles, the annual and semi-annual reports of the Fund, as well as the list of the purchases and sales which the Fund has undertaken during the financial year, may be obtained, on simple request and free of charge, at the head office of the Swiss representative RobecoSAM AG, Josefstrasse 218, CH-8005 Zurich. If the currency in which the past performance is displayed differs from the currency of the country in which you reside, then you should be aware that due to exchange rate fluctuations the performance shown may increase or decrease if converted into your local currency. The value of the investments may fluctuate. Past performance is no guarantee of future results. The prices used for the performance figures of the Luxembourg-based funds are the end-of-month transaction prices net of fees up to 4 August 2010. From 4 August 2010, the transaction prices net of fees will be those of the first business day of the month. Return figures versus the benchmark show the investment management result before management and/or performance fees; the fund returns are with dividends reinvested and based on net asset values with prices and exchange rates of the valuation moment of the benchmark. Please refer to the prospectus of the funds for further details. The prospectus is available at the company's offices or via the www.robeco.ch website. Performance is quoted net of investment management fees. The ongoing charges mentioned in this publication is the one stated in the fund's latest annual report at closing date of the last calendar year.

Additional Information for investors with residence or seat in the United Kingdom

Robeco is subject to limited regulation in the UK by the Financial Conduct Authority. Details about the extent of our regulation by the Financial Conduct Authority are available from us on request. The content of this document is intended for professional investors only.