

# finexpert - ValueTrust

## **Capital Market Report December 2016: Teaser**

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## Current Research on Cost of Capital

### The Equity Risk Premium in 2016

John R. Graham, Campbell R. Harvey

#### Research question:

How has the Equity Risk Premium developed and does it reflect CFO forecasts?

#### Sample:

The risk premium results are linked to survey-based measures of the WACC and investment hurdle rates. The surveys take place since 1996 with CFOs around the world.

#### Results:

- Relatively little time variation of risk premia, largest variance observable during recessions and periods of uncertainty.
- Using the risk premia from the survey results for an imputation of the WACC yields significantly higher cost of capital than CFOs report.

# The Market Portfolio is NOT efficient: Evidences, consequences and easy to avoid errors

Pablo Fernandez, José Paulo Carelli, Alberto Ortiz

#### Research question:

Have equal weighted indices and easy-to-build portfolios beaten market-valueweighted indices?

### Sample:

S&P500, MSCI Emerging Markets, FTSE100, MSCI World, MSCI, DAX 30, IBEX 35

#### Results:

- The market portfolio is not efficient: Return of the equal-weighted portfolio is almost always higher than that of portfolios based on mean-variance optimization
- ⇒ For individual investors easy-to-implement allocation guidelines are suggested
- Volatility and beta are bad measures of risk: Investors often like volatility and don't see it as a risk itself
- ⇒ The true risks e.g. bankrupty should be outlined

# Cost of Capital Q1 2016

### Prime All Share Industries, DAX 30, TecDAX 30, MDAX 50

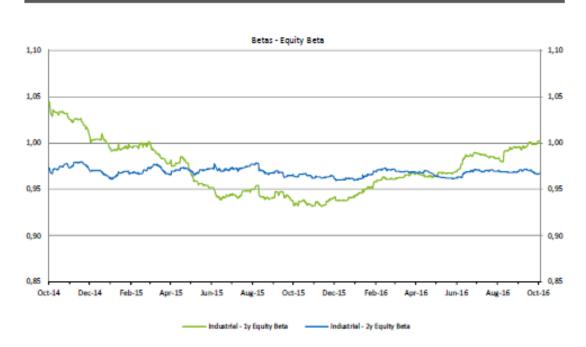
an of 45 Ot 2016

		1 year Equity Beta	R	2 year Equity Beta	R	5 year Equity Beta	R:	n	Cost of Equity (based on 1y beta)	Debt - Equity ratio (market values)	Asset beta	Asset Beta Miles Ezzell debt beta = 0.3	Net-Debt - Equity ratio (market values)	Operating Asset beta	Operating Asset beta Miles Ezzell debt beta=0.3
Г	Automobiles	1,22	0,81	1,20	0,82	1,35	0,76	15	7,2%	1,84	0,55	0,60	1,47	0,62	0,65
	Banks	1,07	0,66	1,10	0,64	1,25	0,53	5	6,4%						
	Basic Resources	0,85	0,42	0,91	0,44	0,79	0,46	4	5,2%	1,19	0,48	0,53	0,76	0,57	0,60
	Chemicals	1,12	0,93	1,14	0,92	1,05	0,87	14	6,6%	0,43	0,88	0,88	0,37	0,90	0,90
	Construction	0,95	0,71	0,97	0,65	1,11	0,66	4	5,7%	0,82	0,62	0,64	0,56	0,69	0,70
	Consumer	0,84	0,77	0,79	0,69	0,77	0,62	24	5,196	0,16	0,76	0,77	0,02	0,83	0,83
dee	Financial Services	0,80	0,75	0,73	0,71	0,73	0,65	29	4,9%						
Industries	Food & Beverages	0,35	0,03	0,48	0,05	0,11	0,00	2	2,4%	0,97	0,21	0,29	0,72	0,24	0,30
8	Industrial	0,94	0,91	0,96	0,89	1,02	0,89	73	5,7%	0,51	0,71	0,72	0,30	0,79	0,79
55	Insurance	0,85	0,83	0,83	0,79	0,98	0,76	4	5,196						
meAl	Media	0,76	0,70	0,75	0,63	0,76	0,59	13	4,7%	0,19	0,68	0,68	0,14	0,70	0,70
F	Pharma & Healthcare	0,95	0,77	0,86	0,70	0,56	0,54	32	5,7%	0,30	0,80	0,80	0,16	0,86	0,86
	Retall	0,67	0,64	0,69	0,61	0,77	0,52	22	4,2%	0,47	0,51	0,54	0,10	0,63	0,63
	Software	0,84	0,77	0,88	0,71	0,81	0,60	32	5,196	0,10	0,78	0,79	0,03	0,82	0,82
	Technology	1,05	0,56	1,03	0,55	0,99	0,47	22	6,2%	0,20	0,93	0,92	0,01	1,04	1,04
	Telecommunication	1,11	0,79	1,07	0,73	0,77	0,45	8	6,6%	0,68	0,77	0,77	0,54	0,82	0,82
	Transport. & Logistics	0,84	0,69	0,93	0,70	0,94	0,71	11	5,1%	0,73	0,57	0,60	0,54	0,62	0,64
L	Utilities	1,05	0,41	1,05	0,45	1,17	0,45	4	6,2%	3,30	0,33	0,43	2,29	0,42	0,49
Prime All Share		1,00	1,00	1,00	1,00	1,00	1,00	318	6,0%	0,76	0,67	0,69	0,57	0,73	0,74
DAX 30		1,04	1,00	1,05	0,99	1,05	0,99	30	6,2%	0,76	0,70	0,71	0,60	0,75	0,76
TecDAX 30		0,88	0,81	0,90	0,76	0,67	0,58	30	5,3%	0,13	0,82	0,82	0,03	0,87	0,87
ME	MDAX 50		0,92	0,83	0,89	0,84	0,85	50	5,196	0,40	0,67	0,68	0,21	0,75	0,75

		Median ROE (Return on Equity)	Median Non-cach ROE (Return on Equity)	Median ROC (Return on Capital)	Median Non-oach ROC (Return on Capital)	Median Capex / Depr.	Median Dividend payout	
Г	Automobiles	0,18	0,12	0,09	0,11	1,26	0,29	
ı	Banks					0,65	0,11	
ı	Basic Resources	0,05	0,06	0,05	0,05	0,78	0,35	
1	Chemicals	0,13	0,07	0,09	0,11	1,17	0,48	
1	Construction	0,03	0,04	0,06	0,07	1,01	0,21	
	Consumer	0,12	0,07	0,09	0,10	1,08	0,49 0,41	
ě	Financial Services	0,02		0,03		2,53		
ž	Food & Beverages	0,05	0,03	0,05	0,07	4,71	4,30	
Share	Industrial	0,12	0,07	0,09	0,11	0,87	0,35	
2	Insurance					1,69	0,42	
8	Media	0,09	0,10	0,07	0,08	0,41	0,40	
Printe	Pharma & Healthcare	0,04	0,04	0,02	0,04	0,70	0,36	
1	Retail	0,06	0,05	0,05	0,04	0,87	0,30	
1	Software	0,14	0,08	0,12	0,14	0,69	0,33	
1	Technology	0,04	0,03	0,05	0,07	0,74	0,24	
1	Telecommunication	0,02	0,04	0,02	0,02	0,53	0,44	
1	Transport, & Logistics	0,16	0,07	0,08	0,08	0,82	0,48	
L	Utilities	0,02	0,04	0,04	0,04	1,43	0,72	
Prime All Share		0,09	0,06	0,07	0,09	0,87	0,36	
D/	W 30	0,18	0,10	0,09	0,11	1,33	0,42	
Te	cDAX 30	0,13	0,09	0,11	0,14	0,51	0,36	
MDAX 50		0,13	0,09	0,09	0,12	0,96	0,40	

## Development of CAPM Beta Factors - Industrial

# 1 year vs. 2 year CAPM Equity Beta



## 1 year vs. 2 year CAPM R2

