

FTSE Developed Asia Pacific Minimum Variance Indices

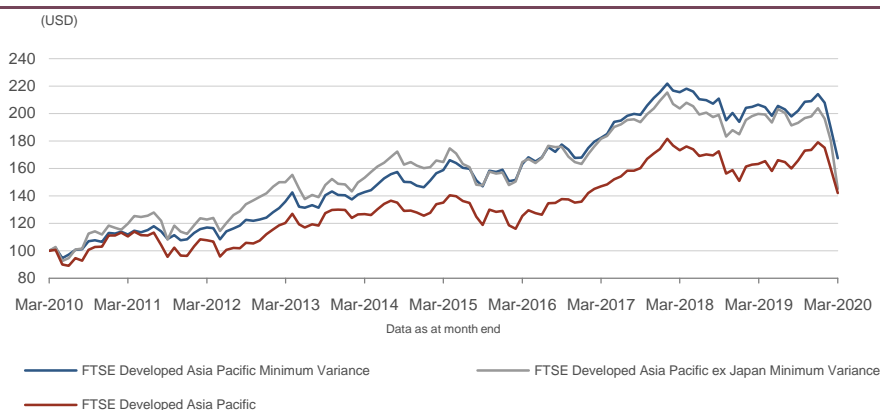
Data as at: 31 March 2020

The FTSE Global Minimum Variance Index Series aims to deliver reduced index volatility based on historical return information, thereby offering potential improvements to the risk reward trade-off, whilst maintaining full allocation to the relevant equity market.

Reduced volatility is achieved by applying a transparent rules-based approach which minimizes historical variance subject to additional constraints on the weight of individual stocks within an index, and, at aggregate level on the weight of countries and industries represented in the index.

Constituents are selected from the corresponding underlying universe of the FTSE All-World Index Series at the time of the bi-annual review and aspects such as index reviews and company classification are governed by the FTSE All-World Index Series Ground Rules.

10-Year Performance - Total Return



Performance and Volatility - Total Return

Index (USD)	Return %						Return pa %*		Volatility %**		
	3M	6M	YTD	12M	3YR	5YR	3YR	5YR	1YR	3YR	5YR
FTSE Developed Asia Pacific Minimum Variance	-21.8	-17.1	-21.8	-18.9	-8.1	5.5	-2.8	1.1	14.8	13.8	12.6
FTSE Developed Asia Pacific ex Japan Minimum Variance	-28.8	-24.9	-28.8	-27.3	-20.0	-11.9	-7.2	-2.5	19.1	16.5	15.7
FTSE Developed Asia Pacific	-20.6	-14.3	-20.6	-12.9	-3.2	5.2	-1.1	1.0	17.0	16.1	14.2

* Compound annual returns measured over 3 and 5 years respectively

** Volatility – 1YR based on 12 months daily data, 3YR based on weekly data (Wednesday to Wednesday), 5YR based on monthly data

Year-on-Year Performance - Total Return

Index % (USD)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FTSE Developed Asia Pacific Minimum Variance	18.9	-4.1	14.5	13.0	4.2	8.8	5.6	28.3	-10.0	10.4
FTSE Developed Asia Pacific ex Japan Minimum Variance	21.8	-5.1	26.1	4.6	8.0	-2.0	3.9	28.2	-11.6	10.3
FTSE Developed Asia Pacific	17.6	-13.2	16.3	15.7	-3.2	2.8	5.2	28.3	-13.4	18.6

FEATURES

Methodology

The approach applies a rules-based strategy to minimise volatility. Some constraints are applied, for example, to avoid over concentration in any particular stock, sector or country.

Objective

The indices are designed for the creation of index tracking funds, derivatives and as a performance benchmark.

Investability

Stocks in the underlying universe are free-float weighted to ensure that only the investable opportunity set is included.

Liquidity

Stocks in the underlying universe are screened to ensure that the indices are tradable.

Transparency

Index rules are freely available on the FTSE website.

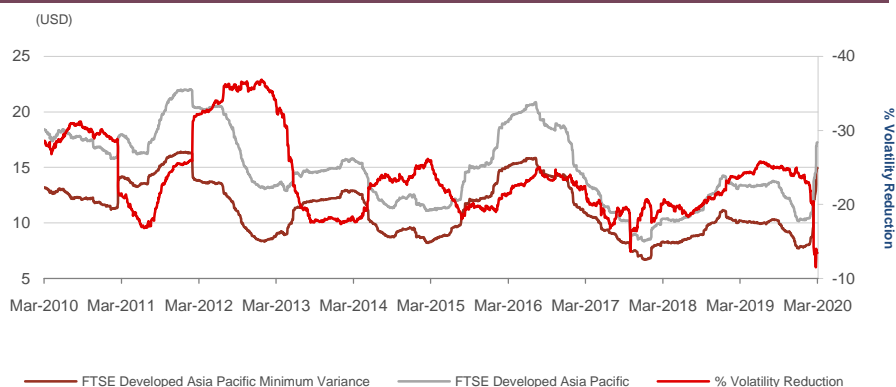
Availability

The indices are calculated based on price and total return methodologies, both real time and end-of-day.

Industry Classification Benchmark

Index constituents are categorized in accordance with the Industry Classification Benchmark (ICB), the global standard for industry sector analysis.

Annualised Rolling 252 Volatility - Total Return



Top 10 Constituents - FTSE Developed Asia Pacific Minimum Variance Index

Constituent	Country	ICB Sector	FTSE Developed Asia Pacific Minimum Variance (Wgt %)	FTSE Developed Asia Pacific (Wgt %)	Diff %
Chugoku Electric Power	Japan	Electricity	0.65	0.08	0.58
Evolution Mining	Australia	Mining	0.64	0.05	0.59
PCCW	Hong Kong	Fixed Line Telecommunications	0.62	0.04	0.58
Skylark Holdings	Japan	Travel & Leisure	0.52	0.05	0.47
Northern Star Resources	Australia	Mining	0.52	0.09	0.43
Lawson	Japan	Food & Drug Retailers	0.51	0.05	0.46
Toyo Suisan Kaisha	Japan	Food Producers	0.49	0.08	0.41
Tokyo Gas	Japan	Gas Water & Multiutilities	0.49	0.19	0.29
Newcrest Mining	Australia	Mining	0.48	0.21	0.27
NTT Docomo	Japan	Mobile Telecommunications	0.48	0.69	-0.21
Totals			5.40	1.53	

Country Breakdown

Country	FTSE Developed Asia Pacific Minimum Variance		FTSE Developed Asia Pacific		Diff %
	No. of Cons	Wgt %	No. of Cons	Wgt %	
Australia	79	13.33	104	14.15	-0.82
Hong Kong	74	14.46	92	9.06	5.39
Japan	319	52.95	509	62.45	-9.50
Korea	60	8.29	136	10.76	-2.47
New Zealand	11	3.47	12	0.73	2.73
Singapore	37	7.50	38	2.85	4.66
Totals	580	100.00	891	100.00	

INFORMATION

Index Universe

FTSE Developed Asia Pacific Index

Index Launch

July 2012

Base Date

18 June 2012

Base Value

100

Investability Screen

Actual free float applied and liquidity screened

Index Calculation

Real time and end of day

End-of-Day Distribution

Via FTP and email

Currency

USD, Euro, GBP, JPY, AUD, Local

Review Dates

March and September

History

Available from September 2001

ICB Supersector Breakdown

ICB Code	ICB Supersector	FTSE Developed Asia Pacific Minimum Variance		FTSE Developed Asia Pacific		Diff %
		No. of Cons	Wgt %	No. of Cons	Wgt %	
0500	Oil & Gas	13	1.74	18	1.28	0.45
1300	Chemicals	22	1.90	44	3.18	-1.28
1700	Basic Resources	15	3.30	31	3.05	0.25
2300	Construction & Materials	26	3.17	44	2.33	0.84
2700	Industrial Goods & Services	74	12.77	153	15.04	-2.27
3300	Automobiles & Parts	24	2.31	42	6.50	-4.19
3500	Food & Beverage	45	8.67	54	3.39	5.28
3700	Personal & Household Goods	39	5.45	60	7.77	-2.33
4500	Health Care	33	5.32	53	9.69	-4.37
5300	Retail	52	10.22	61	4.56	5.66
5500	Media	11	1.60	16	0.75	0.86
5700	Travel & Leisure	45	8.64	59	4.82	3.82
6500	Telecommunications	14	4.25	16	4.47	-0.21
7500	Utilities	26	8.62	26	2.54	6.08
8300	Banks	36	4.89	49	8.71	-3.82
8500	Insurance	15	3.23	21	4.56	-1.33
8600	Real Estate	49	8.76	54	4.62	4.14
8700	Financial Services	14	1.58	35	2.92	-1.34
9500	Technology	27	3.57	55	9.82	-6.25
Totals		580	100.00	891	100.00	

Index Characteristics

Attributes	FTSE Developed Asia Pacific Minimum Variance	FTSE Developed Asia Pacific ex Japan Minimum Variance
Number of constituents	580	221
Dividend Yield %	4.00	5.35
Constituent (Wgt %)		
Average	0.17	0.45
Largest	0.65	1.91
Median	0.15	0.38
Top 10 Holdings (Wgt %)	5.40	14.03

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