

## Portfolio Seasons

### Singapore: Finding Shelter

#### Financials sector drove MSCI Singapore's performance

MSCI Singapore 3M -0.55% return (US\$) signals a relatively defensive posture compared to ASEAN's -3% and Asia ex Japan's deeper -4.38% sell down. Underpinning this performance, the top five performers were OCBC, DBS, ST Eng, UOB and SGX. On the broader universe covering all Singapore listcos, our factor return analysis on the spreads between the top (F1) and worst (FN) fractiles show that investors prioritized Value, Momentum and Growth factor styles over others.

#### Oil and interest rate themes in focus

Within Value style, real estate/REITs (Centurion, Keppel Pacific Oak, Manulife) and O&G (Rex International) delivered the best returns as sentiment improved following the FOMC Jul 26 meeting that the Fed was close to the end of the tightening cycle. For Momentum, consumer (Food Empire, Jardine Cycle & Carriage) delivered the strongest performance, while in Growth, the oil & gas sector (CSE Global and Dyna-Mac) fired its cylinders on a rising Brent market which took off in Jul. With escalating tensions in the Middle East and the 10y UST topping 5% for the first time since 2007, we believe oil and yield curve will hog the limelight.

#### Markets likely rotation to high dividend yield and low P/B

Current 10y-2y spreads are trading at 1.4 SD below 20-year mean. Empirical evidence suggests that when negative yield curves reverse as was the case during Gulf War and Global Financial Crisis, it is informative that rates direction can also strongly correlate to MSCI Singapore's underperformance. Long durations have led the selloff so far with cyclical factors - notably an overheated US Sep non-farm payrolls and Federal Reserve's 5.4% nowcast of 3Q GDP - being major contributors to this bear steepening event. With Fed Chairman reiterating on 19 Oct that monetary policy is not too restrictive at the moment, we believe the market's focus will shift to Middle East contagion risks as phase 2 of the ground offensives get underway. The yield curve will eventually flatten due to slower economic activity and markets will prioritise allocations to high yield and low P/B plays. SREITs sector will be among this theme.

#### Portfolio Strategy

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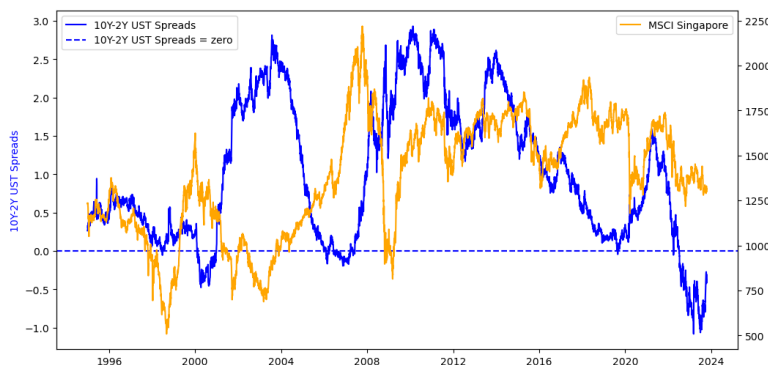
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Fig 1: AxJ 3-month market performance (USD)

MSCI Malaysia	3.24%
MSCI India	1.62%
MSCI Singapore	-0.55%
MSCI AC ASEAN	-3.02%
MSCI China	-3.74%
MSCI Philippines	-3.82%
MSCI Vietnam	-4.28%
MSCI AC Asia ex JP	-4.38%
MSCI Indonesia	-5.26%
MSCI Taiwan	-5.59%
MSCI Hong Kong	-8.64%
MSCI Thailand	-8.93%
MSCI Korea	-10.50%

Source: MSCI, Maybank IBG Research

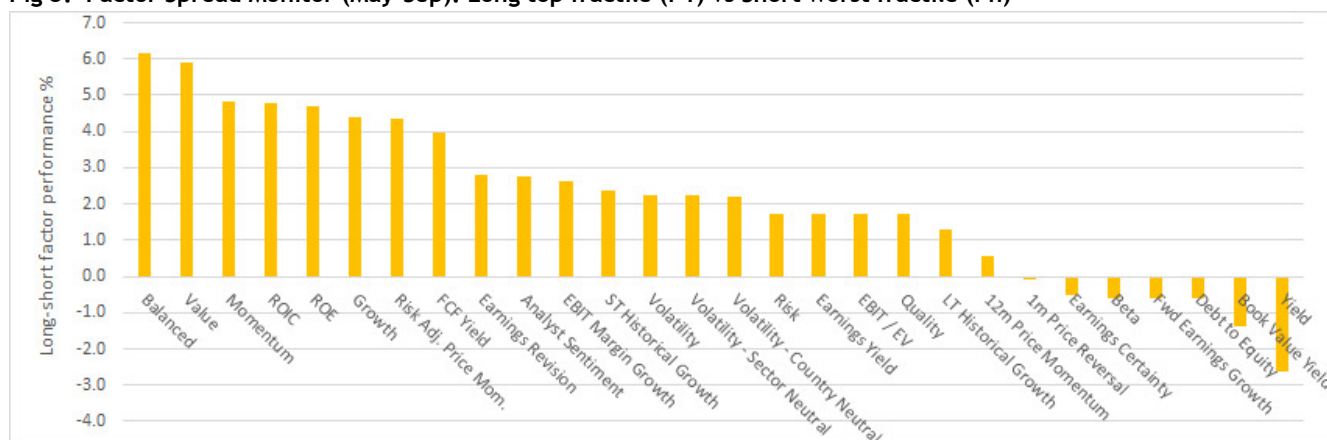
Fig 1: US Treasury 10y-2y Spread vs MSCI Singapore



Source: Maybank IBG Research, Factset

## Key Charts & Tables

Fig 3: Factor Spread Monitor (May-Sep): Long top fractile (F1) vs Short worst fractile (Fn)



Source: Maybank IBG Research, Factset

Fig 4: Value style top performers (May-Sep)

Company Name	Periods	Universe Returns	Value (Score)
Rex International Holding Ltd.	31/08/2023	35.62	8.40
Rex International Holding Ltd.	30/06/2023	21.37	9.20
Centurion Corporation Limited	30/06/2023	20.95	8.60
Boustead Singapore Limited	30/06/2023	7.99	9.00
Jardine Matheson Holdings Limited	31/05/2023	5.50	8.20
Keppel Pacific Oak US REIT	31/05/2023	5.00	8.20
Golden Agri-Resources Ltd	31/08/2023	4.88	9.60
Bumitama Agri Ltd.	31/08/2023	2.54	8.60
Manulife US REIT	31/05/2023	2.37	9.00
Yanlord Land Group Limited	31/05/2023	0.11	9.40

Source: Maybank IBG Research, Factset

Fig 5: Momentum style top performers (May-Sep)

Company Name	Periods	Universe Returns	Momentum (Score)
Keppel Corporation Limited Sponsored ADR	31/05/2023	8.60	8.80
Jardine Cycle & Carriage Limited	31/05/2023	7.76	8.95
Keppel Corporation Limited	31/05/2023	6.46	8.95
Food Empire Holdings Limited	31/05/2023	5.27	8.85
Raffles Medical Group Ltd	31/05/2023	4.73	9.05
Dyna-Mac Holdings Ltd.	31/08/2023	4.08	9.45
Delfi Limited	31/07/2023	3.79	9.50
Genting Singapore Limited	30/06/2023	1.92	8.95

Source: Maybank IBG Research, Factset

Fig 6: Growth style top performers (May-Sep)

Company Name	Periods	Universe Returns	Growth (Score)
UP Fintech Holding Ltd. Sponsored ADR Class A	30/06/2023	56.34	9.20
CSE Global Limited	30/06/2023	25.45	8.30
Sea Limited Sponsored ADR Class A	30/06/2023	14.61	8.20
UP Fintech Holding Ltd. Sponsored ADR Class A	31/07/2023	10.59	9.00
Boustead Singapore Limited	30/06/2023	7.99	7.90
Food Empire Holdings Limited	30/06/2023	7.92	8.25
Food Empire Holdings Limited	31/08/2023	6.63	7.80
UP Fintech Holding Ltd. Sponsored ADR Class A	31/08/2023	4.28	9.60
Dyna-Mac Holdings Ltd.	31/08/2023	4.08	9.20
AEM Holdings Ltd.	31/05/2023	3.17	8.90
UMS Holdings Limited	31/08/2023	2.90	8.45
CSE Global Limited	31/07/2023	1.90	8.45
Sea Limited Sponsored ADR Class A	31/05/2023	1.10	8.85

Source: Maybank IBG Research, Factset

Fig 7: Balanced style top performers (May-Sep)

Company Name	Periods	Universe Returns	Quant (Score)
Civmec Ltd.	30/06/2023	12.19	7.32
Food Empire Holdings Limited	31/08/2023	6.63	7.38
Food Empire Holdings Limited	31/05/2023	5.27	7.32
Civmec Ltd.	31/05/2023	5.05	7.42
Delfi Limited	31/07/2023	3.79	7.32
BRC Asia Limited	30/06/2023	3.16	7.44
Sheng Siong Group Ltd.	30/06/2023	1.92	7.26
Sheng Siong Group Ltd.	31/05/2023	1.35	7.24

Source: Maybank IBG Research, Factset

Fig 8: F1-Fn Upside/Downside (+/-) implied by current cycle vs crisis years

Style	Factor	Dot Com	GFC	Crisis Years	Current (Jun-Sep 2023)	Mean Reversion: (Jun-Sep 2023) vs Crisis Years
Balanced	Balanced	2.12	2.21	2.17	7.35	-5.18
Value	Value	2.40	3.72	3.06	5.28	-2.22
Growth	Growth	-0.34	-3.15	-1.74	5.26	-7.00
Momentum	Momentum	1.67	0.62	1.15	4.69	-3.54
Quality	Quality	1.50	0.28	0.89	1.94	-1.05
Low Volatility	Low Volatility	-2.72	5.84	1.56	0.83	+0.73
Quality	Yield	3.62	Not Avail.	3.62	-2.63	+6.25
Quality	ROE	-0.18	-0.34	-0.26	4.71	-4.97
Growth	Analyst Sentiment	-1.05	-1.00	-1.03	4.65	-5.68
Quality	ROIC	0.28	-0.07	0.10	4.53	-4.43
Growth	EBIT Margin Growth	4.40	0.55	2.48	3.51	-1.03
Value	Earnings Revision	2.09	0.27	1.18	3.44	-2.27
Momentum	Risk Adjusted Price Momentum	1.14	0.40	0.77	3.37	-2.60
Value	Earnings Yield	2.39	-0.52	0.93	2.75	-1.81
Value	FCF Yield	-0.27	2.35	1.04	2.61	-1.57
Low Volatility	Volatility - Country Neutral	-1.79	5.72	1.97	2.46	-0.49
Growth	ST Historical Growth	1.92	-1.46	0.23	2.39	-2.16
Low Volatility	Volatility - Sector Neutral	-3.04	5.18	1.07	2.32	-1.25
Low Volatility	Volatility	-3.04	5.18	1.07	2.32	-1.25
Growth	LT Historical Growth	-0.52	-3.76	-2.14	1.57	-3.71
Value	EBIT / EV	0.62	1.47	1.04	0.47	+0.57
Growth	Fwd Earnings Growth (FY2 vs FY1)	-1.95	-3.67	-2.81	0.28	-3.09
Momentum	12m Price Momentum	0.71	-2.43	-0.86	0.28	-1.13
Quality	Debt to Equity	-0.09	-0.12	-0.10	0.25	-0.35
Quality	Earnings Certainty	-1.00	-0.52	-0.76	-0.18	-0.58
Momentum	1m Price Reversal	-1.09	-0.22	-0.66	-1.14	+0.48
Value	Book Value Yield	1.14	2.34	1.74	-1.45	+3.18
Low Volatility	Beta	-1.06	0.62	-0.22	-2.10	+1.88

Source: Maybank IBG Research, Factset

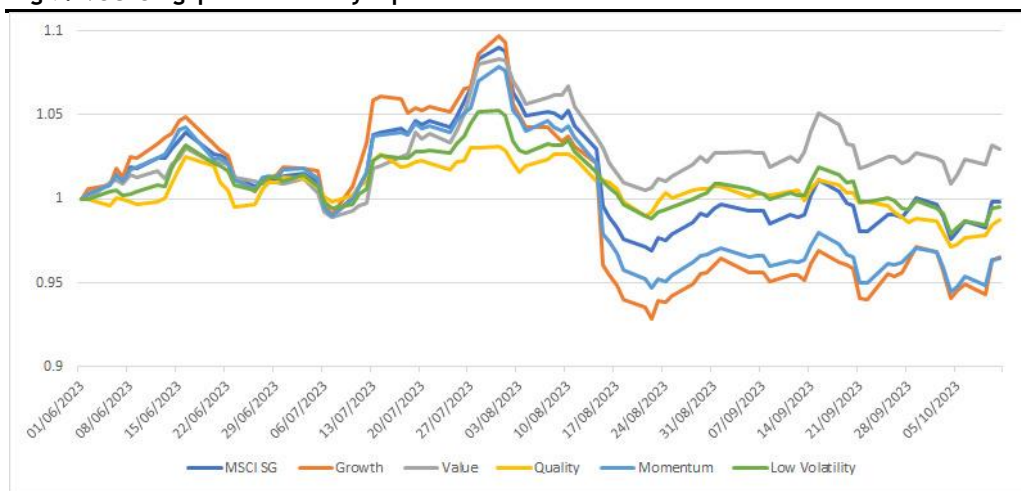
Notes:

- F1-FN returns are derived by aggregating the returns from taking long positions in the best scoring fragile stock universe and subtracting these returns from taking short positions in the worst scoring fragile.
- Crisis years is the mean average F1-Fn return averages of the Dot Com bubble and Global Financial Crisis periods.
- Mean Reversion estimates are derived from subtracting the Crisis Years F1-Fn return averages from the current period F1-Fn return averages.

5/6 factor styles have outperformed vs crisis years, implying downside risks should another market crisis emerge.

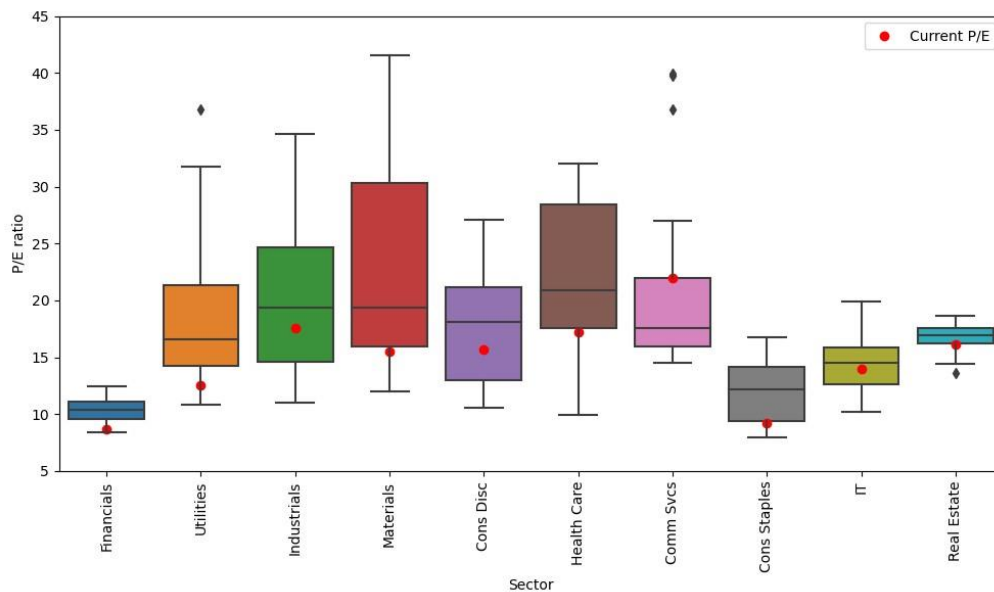
If markets revert back to mean, the Low Volatility style and stocks with low price to book valuation emerge as our favoured defensive strategy in times of adversity.

Fig 9: MSCI Singapore factor style performance



Source: Maybank IBG Research, MSCI, Factset

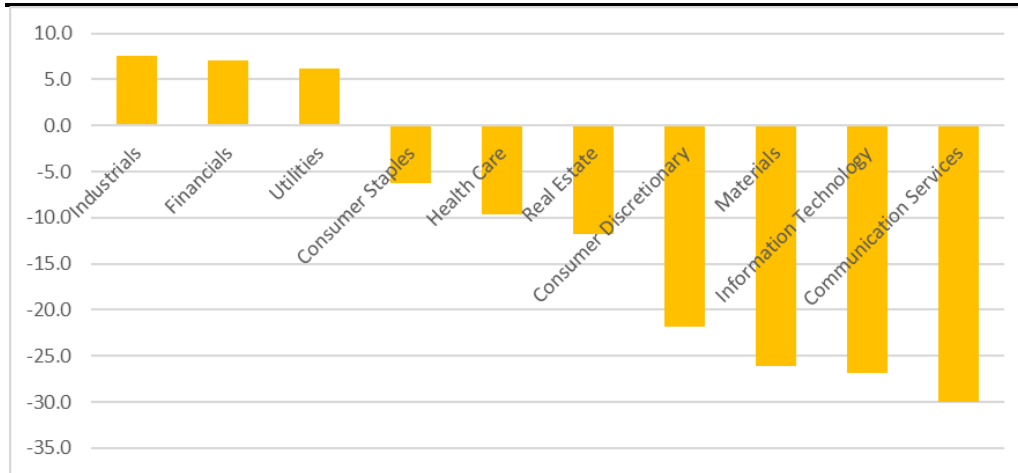
Fig 10: MSCI Singapore sector PE box plot (trailing 12-months)



Source: Maybank IBG Research, Factset, MSCI. 5-year data as of 31 August 2023

Note: A box plot displays a dataset's distribution including outliers, 1st quartile, median, 3rd quartile and maximum (Min, Q1, Median, Q3, Max).

Fig 11: MSCI Singapore sector performance (% change last 5 months, local currency)



Source: Maybank IBG Research, MSCI, Factset

Fig 12: MSCI Singapore constituent's performance return

	Index Weight	1M return % (LC)	3M return % (LC)	YTD return % (LC)
Oversea-Chinese Banking Corporation Limited	12.9%	3.75	10.47	13.30
DBS Group Holdings Ltd	19.2%	0.69	10.29	4.78
Singapore Technologies Engineering Ltd	2.7%	0.78	8.31	19.10
United Overseas Bank Limited	10.6%	0.28	7.75	-1.95
Singapore Exchange Ltd.	2.3%	2.27	6.00	12.40
Keppel Corporation Limited	2.7%	-2.77	4.29	47.77
Wilmar International Limited	5.1%	1.91	1.61	-6.47
Singapore Telecommunications Limited	8.8%	4.27	1.12	-2.02
CapitaLand Ascendas REIT	2.6%	-4.27	0.21	3.88
City Developments Limited	1.3%	0.75	-0.59	-15.92
UOL Group Limited	1.2%	1.08	-1.06	-0.15
Mapletree Logistics Trust	1.7%	-5.95	-1.82	3.63
CapitaLand Integrated Commercial Trust	2.7%	-5.24	-1.95	-6.05
Grab Holdings Limited Class A	2.8%	-6.68	-1.97	8.39
Seatrium Limited	1.9%	-7.91	-3.03	-7.25
CapitaLand Investment Limited	3.6%	-0.32	-4.86	-10.75
Sembcorp Industries Ltd.	1.9%	-3.56	-6.45	48.22
Jardine Cycle & Carriage Limited	2.7%	-4.12	-8.93	11.87
Genting Singapore Limited	2.2%	-4.55	-9.04	-8.38
Singapore Airlines Ltd.	4.2%	-4.76	-9.36	20.80
Mapletree Pan Asia Commercial Trust	1.6%	-8.05	-13.01	-13.86
Sea Limited Sponsored ADR Class A	5.2%	16.08	-24.90	-14.68

Source: MIBG Research, MSCI, Factset

Fig 13: MSCI ASEAN earnings revision for 2024 (calendar year)

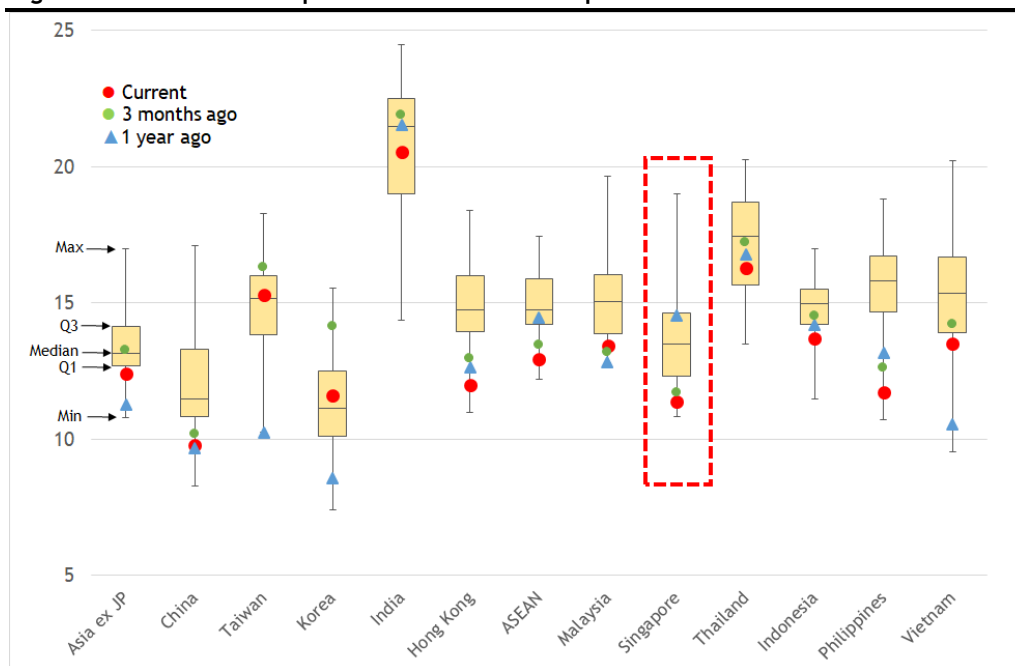
	FY 2023 Index EPS last 3mth	FY 2023 Index EPS Current	FY 2023 Earnings Revision	FY 2024 Index EPS last 3mth	FY 2024 Index EPS Current	FY 2024 Earnings Revision	FY 24/23 EPS Growth
MSCI Korea	45.10	43.49	-3.6%	75.87	74.57	-1.7%	71.5%
MSCI Vietnam	28.77	26.01	-9.6%	36.10	34.24	-5.1%	31.6%
<b>MSCI AC Asia ex JP</b>	<b>43.25</b>	<b>41.55</b>	<b>-3.9%</b>	<b>52.61</b>	<b>50.83</b>	<b>-3.4%</b>	<b>22.3%</b>
MSCI Taiwan	35.61	35.31	-0.8%	44.47	43.00	-3.3%	21.8%
MSCI India	90.71	96.01	5.8%	106.73	112.74	5.6%	17.4%
MSCI Hong Kong	887.64	801.42	-9.7%	1017.82	938.18	-7.8%	17.1%
MSCI China	5.12	4.93	-3.7%	5.87	5.70	-3.0%	15.5%
MSCI Thailand	27.20	26.30	-3.3%	30.77	30.26	-1.7%	15.0%
MSCI Malaysia	31.78	30.98	-2.5%	34.60	34.36	-0.7%	10.9%
MSCI Philippines	83.91	85.86	2.3%	91.64	93.50	2.0%	8.9%
MSCI Indonesia	475.52	508.89	7.0%	521.87	553.73	6.1%	8.8%
<b>MSCI AC ASEAN</b>	<b>44.49</b>	<b>43.80</b>	<b>-1.5%</b>	<b>48.11</b>	<b>47.05</b>	<b>-2.2%</b>	<b>7.4%</b>
<b>MSCI Singapore</b>	<b>111.55</b>	<b>112.96</b>	<b>1.3%</b>	<b>118.51</b>	<b>116.51</b>	<b>-1.7%</b>	<b>3.1%</b>

Source: Maybank IBG Research, MSCI, Factset

Note: Index EPS based on sell-side analysts' earnings estimates and MSCI's weighting methodology



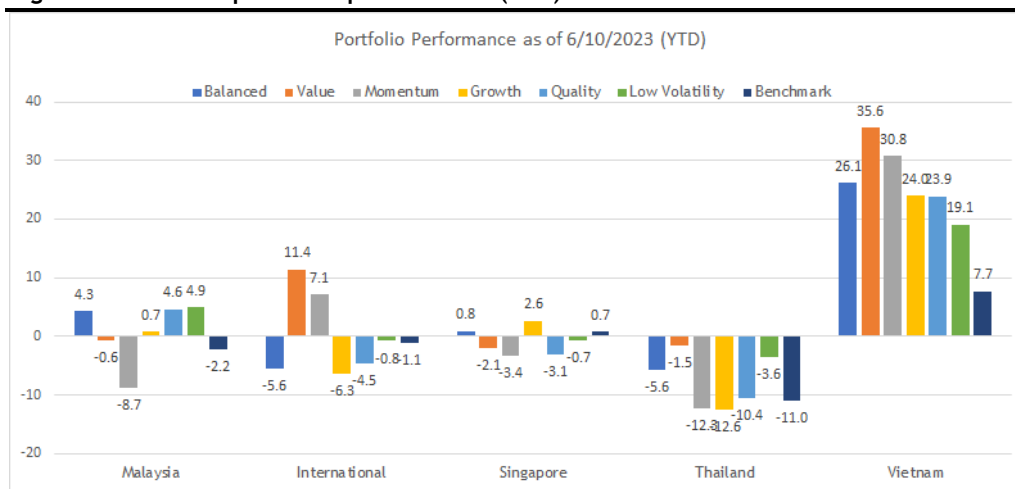
Fig 14: MSCI AC Asia ex Japan 12m forward PE box plot



Source: Maybank IBG Research, Factset, MSCI. 5-year data as of 31 August 2023

Note: A box plot displays a dataset's distribution including outliers, 1st quartile, median, 3rd quartile and maximum (Min, Q1, Median, Q3, Max).

Fig 15: MIBG model portfolios performance (YTD)



Source: Maybank IBG Research, Factset, MSCI

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# MIBG Singapore Model Portfolios

## Singapore **BALANCED** Model Portfolio

Trailing Returns:

-4.8 % 1 Year  
2.2 % 3 Years Annualised  
6.4 % 5 Years Annualised

*Risk: Below Average*

## Singapore **VALUE** Model Portfolio

Trailing Returns:

-0.1 % 1 Year  
10.5 % 3 Years Annualised  
4.1 % 5 Years Annualised

*Risk: Above Average*

## Singapore **MOMENTUM** Model Portfolio

Trailing Returns:

-4.9 % 1 Year  
-9.3 % 3 Years Annualised  
7.8 % 5 Years Annualised

*Risk: Above Average*

## Singapore **GROWTH** Model Portfolio

Trailing Returns:

7.2 % 1 Year  
-1.5 % 3 Years Annualised  
8.0 % 5 Years Annualised

*Risk: Average*

## Singapore **QUALITY** Model Portfolio

Trailing Returns:

8.2 % 1 Year  
-2.7 % 3 Years Annualised  
-1.7 % 5 Years Annualised

*Risk: Average*

## Singapore **LOW VOLATILITY** Model Portfolio

Trailing Returns:

4.4 % 1 Year  
1.6 % 3 Years Annualised  
-3.0 % 5 Years Annualised

*Risk: Below Average*



# Balanced Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
DBS Group Holdings	Financials	20.00	33.64	4.4
Sheng Siong Group	Consumer Discretionary	20.00	1.52	3.8
Singapore Techs Eng	Industrials	20.00	3.91	4.8
United Overseas Bank	Financials	11.47	28.50	4.4
Jardine Cycle & Carriage	Industrials	8.46	31.93	5.3
Food Empire	Consumer Discretionary	6.75	1.11	6.9
Yangzijiang Shipbuilding	Industrials	3.33	1.66	3.7
Genting Singapore	Consumer Discretionary	3.33	0.85	3.1

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	6.2	-5.0	0.9	2.7	25.6	90.1
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

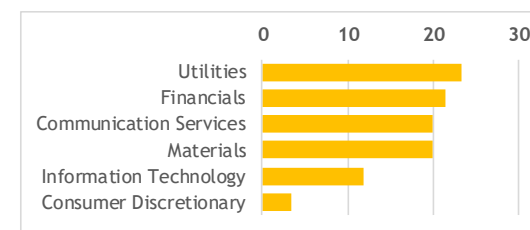
Annual Returns (%)	2022	2021	2020
Portfolio Style	50.3	20.0	4.6
MSCI Singapore	-9.0	13.5	-6.2

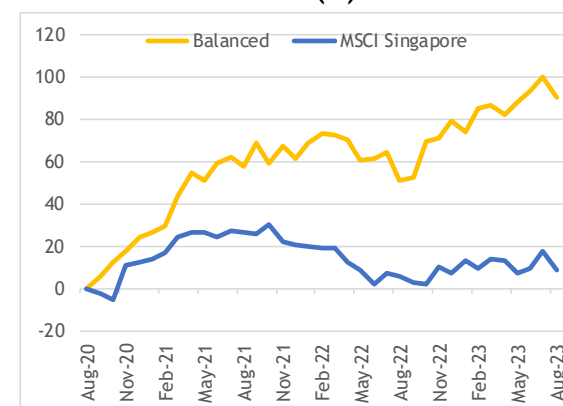
Sharpe Ratio /Risk-Return (3Y)	Style ISCI Singapore
Sharpe Ratio	1.23 0.05
Volatility (%)	15.8 16.6
Max Drawdown (%)	-12.7 -22.0
Max Drawdown Duration (months)	9 22

Source: Factset, MSCI, Maybank IBG Research  
 Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

## Sector Weights (%)



## 3-Year Performance (%)



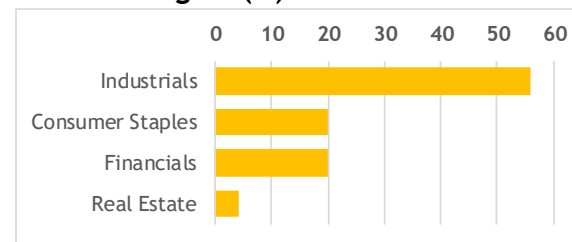
# Value Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
Jardine Matheson Holdings	Industrials	20.00	46.42	4.2
Oversea-Chinese Banking	Financials	20.00	12.81	5.6
Bumitama Agri	Consumer Staples	20.00	0.57	9.6
Civmec	Industrials	20.00	0.81	5.9
ComfortDelGro	Industrials	6.59	1.30	3.7
Jardine Cycle & Carriage	Industrials	5.07	31.93	5.3
LHN	Real Estate	4.17	0.34	5.8
Marco Polo Marine	Industrials	4.17	0.05	0.0

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Sector Weights (%)



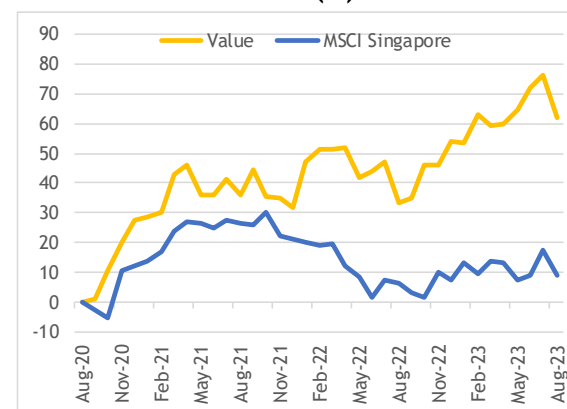
## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	5.0	-8.3	-1.6	-0.7	21.4	61.9
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

Annual Returns (%)	2022	2021	2020
Portfolio Style	37.4	13.0	-2.4
MSCI Singapore	-9.0	13.5	-6.2

Sharpe Ratio /Risk-Return (3Y)	Style	MSCI Singapore
Sharpe Ratio	0.81	0.05
Volatility (%)	17.6	16.6
Max Drawdown (%)	-12.1	-22.0
Max Drawdown Duration (months)	8	22

## 3-Year Performance (%)



Source: Factset, MSCI, Maybank IBG Research

Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

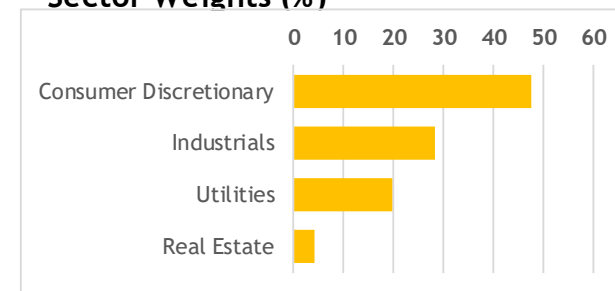
# Momentum Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
Singapore Airlines	Industrials	20.00	6.46	6.6
Delfi	Consumer Discretionary	20.00	1.27	6.2
Sembcorp Industries	Utilities	19.84	5.09	2.4
Genting Singapore	Consumer Discretionary	18.39	0.85	3.1
Food Empire	Consumer Discretionary	9.26	1.11	6.9
LHN	Real Estate	4.17	0.34	5.8
Dyna-Mac	Industrials	4.17	0.41	1.5
Seatrium	Industrials	4.17	0.13	0.0

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Sector Weights (%)



## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	12.4	-4.8	0.5	6.0	36.0	86.7
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

Annual Returns (%)	2022	2021	2020
Portfolio Style	71.5	17.3	-2.1
MSCI Singapore	-9.0	13.5	-6.2

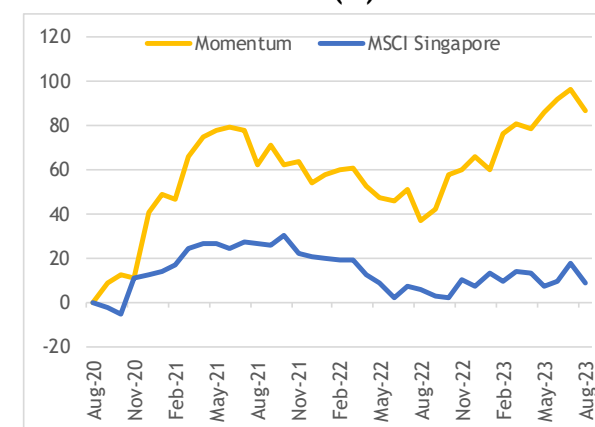
  

Sharpe Ratio /Risk-Return (3Y)	Style	MSCI Singapore
Sharpe Ratio	0.87	0.05
Volatility (%)	23.0	16.6
Max Drawdown (%)	-23.4	-22.0
Max Drawdown Duration (months)	20	22

Source: Factset, MSCI, Maybank IBG Research

Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

## 3-Year Performance (%)



# Growth Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
CSE Global	Information Technology	20.00	0.46	8.1
UMS Holdings	Information Technology	17.69	1.30	4.2
Food Empire	Consumer Discretionary	16.53	1.11	6.9
Delfi	Consumer Discretionary	11.80	1.27	6.2
Dyna-Mac	Industrials	10.72	0.41	1.5
Civmec	Industrials	10.14	0.81	5.9
Marco Polo Marine	Industrials	8.95	0.05	0.0
Sea Sp ADR-A	Communication Services	4.17	43.95	0.0

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	1.4	-4.4	2.1	-1.4	11.8	23.2
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

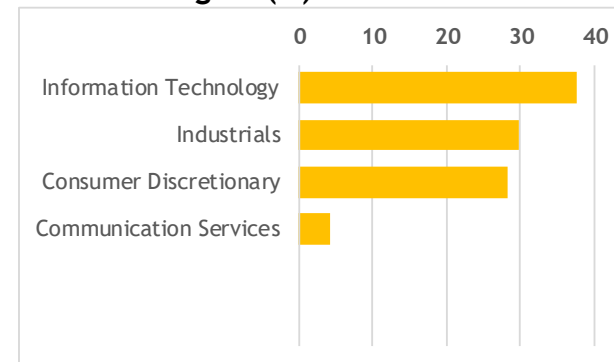
Annual Returns (%)	2022	2021	2020
Portfolio Style	50.9	-11.3	0.7
MSCI Singapore	-9.0	13.5	-6.2

Sharpe Ratio /Risk-Return (3Y)	Style ISCI Singapore
Sharpe Ratio	0.28 0.05
Volatility (%)	19.6 16.6
Max Drawdown (%)	-28.0 -22.0
Max Drawdown Duration (months)	29 22

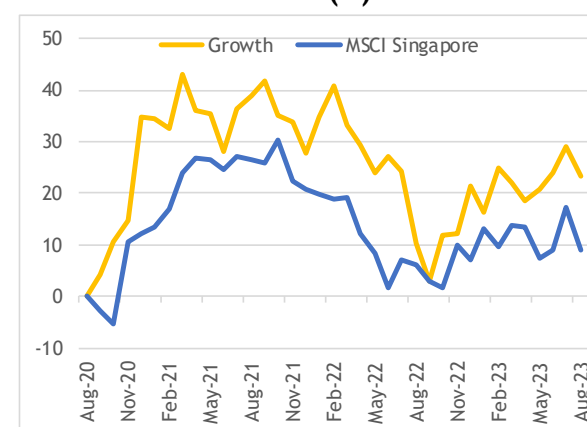
Source: Factset, MSCI, Maybank IBG Research

Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

## Sector Weights (%)



## 3-Year Performance (%)



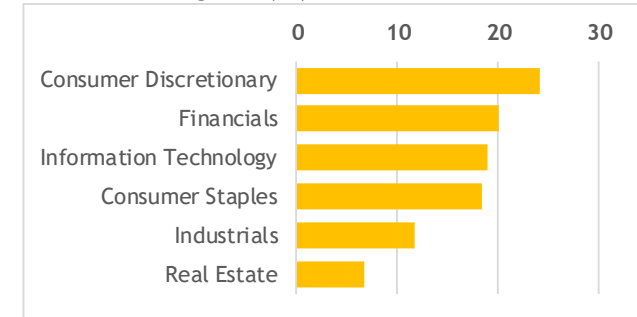
# Quality Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
Sheng Siong Group	Consumer Discretionary	20.00	1.52	3.8
Singapore Exchange	Financials	20.00	9.75	3.4
First Resources	Consumer Staples	18.43	1.53	9.8
Venture	Information Technology	14.75	12.37	4.4
HRnetGroup	Industrials	11.71	0.74	5.1
PropNex	Real Estate	6.77	0.88	4.4
UMS Holdings	Information Technology	4.17	1.30	4.2
Food Empire	Consumer Discretionary	4.17	1.11	6.9

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Sector Weights (%)



## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	-2.7	-3.1	-1.8	-3.7	20.2	27.6
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

Annual Returns (%)	2022	2021	2020
Portfolio Style	27.7	4.4	-2.3
MSCI Singapore	-9.0	13.5	-6.2

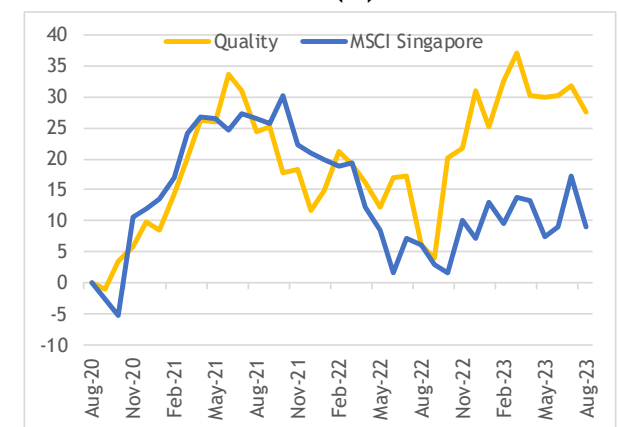
  

Sharpe Ratio /Risk-Return (3Y)	Style	MSCI Singapore
Sharpe Ratio	0.37	0.05
Volatility (%)	16.8	16.6
Max Drawdown (%)	-22.3	-22.0
Max Drawdown Duration (months)	20	22

Source: Factset, MSCI, Maybank IBG Research

Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

## 3-Year Performance (%)



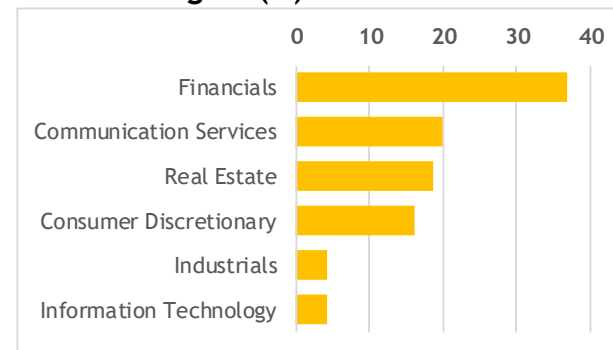
# Low Volatility Model Portfolio

## Holdings

Company Name	Sector	Portfolio Weight (%)	Price (Local)	Dividend Yield (%)
NetLink NBN Trust	Communication Services	20.00	0.84	6.1
Singapore Exchange	Financials	19.62	9.75	3.4
DBS Group Holdings	Financials	17.20	33.64	4.4
Sheng Siong Group	Consumer Discretionary	16.07	1.52	3.8
Mapletree Industrial	Real Estate	14.59	2.26	5.7
Singapore Techs Eng	Industrials	4.17	3.91	4.8
Suntec REIT	Real Estate	4.17	1.16	6.4
Venture	Information Technology	4.17	12.37	4.4

Source: Factset; Prices as of 29 September 2023. Model portfolio weights as of 25 August 2023.

## Sector Weights (%)



## Performance table

Cumulative Returns (%)	YTD	1M	3M	6M	1Y	3Y
Portfolio Style	-6.6	-0.6	0.3	-3.5	5.0	7.3
MSCI Singapore	1.8	-7.1	1.5	-0.5	2.7	9.0

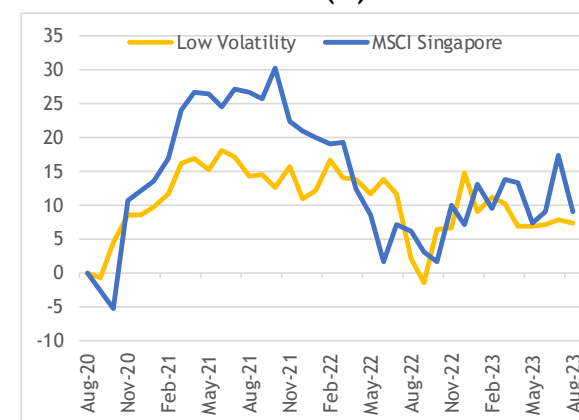
Annual Returns (%)	2022	2021	2020
Portfolio Style	5.0	21.9	3.3
MSCI Singapore	-9.0	13.5	-6.2

Sharpe Ratio /Risk-Return (3Y)	Style ISCI Singapore
Sharpe Ratio	-0.03 0.05
Volatility (%)	11.6 16.6
Max Drawdown (%)	-16.5 -22.0
Max Drawdown Duration (months)	26 22

Source: Factset, MSCI, Maybank IBG Research

Note: Performance prior to 1 June 2023 based on backtest results. MSCI AxJ represents USD total return of MSCI AxJ Index including dividends. All performance data (USD) as of 29 September 2023.

## 3-Year Performance (%)



# Appendix: MIBG Model Portfolio Framework

## Quantitative factors for each model portfolio

Style Name	Factor Name	Factor Description
Value	Earnings Yield	next 12m forecast eps scaled by price (country neutral)
Value	Book Value Yield	last reported book value per share scaled by price (sector neutral)
Value	Free Cash Flow Yield	last 12m FCF per share scaled by price
Value	EBIT/EV Multiple	last 12m EBIT scaled by Enterprise Value
Value/Momentum	Earnings Revision	3m change in next 12m forecast eps
Momentum	Long-term Price Momentum (12m)	past 12m USD total return
Momentum	Short-term Price Reversal (1m)	past 1m USD total return - <i>lower better</i>
Momentum	Risk-adjusted Price Momentum	past 12m USD total return excluding past 1m scaled by past 12m total return standard deviation
Growth	Short-term Historical Growth	past 12m eps growth and past 12m sales per share growth
Growth	Long-term Historical Growth	past 5y CAGR EPS and past 5y CAGR sales per share
Growth	Forward Earnings Growth	FY2 eps forecast vs FY1 eps forecast
Growth	EBIT Margin Growth	last 12m EBIT scaled by sales vs 1y ago
Growth	Analyst Sentiment	3m change in analyst rating and eps upgrades vs downgrades over past 3m
Quality	Return on Equity	last 12m net income scaled by average equity
Quality	Return on Invested Capital	last 12m net income scaled by average invested capital
Quality	Debt to Equity	last reported debt to equity - <i>lower better</i>
Quality	Earnings Certainty	FY2 eps standard deviation scaled by mean and standard deviation of 5y annual eps growth - lower better
Quality	Yield	last 12m dividend yield
Low Volatility	Return Volatility	past 12m standard deviation of USD total return - lower better
Low Volatility	Return Volatility (country neutral)	past 12m standard deviation of local total return (country neutral) - lower better
Low Volatility	Return Volatility (sector neutral)	past 12m standard deviation of USD total return (sector neutral) - lower better
Low Volatility	Beta	3y market beta - lower better

Source: Maybank IBG Research

Note: Balanced model portfolio uses all factors specified above. Yield factor added to Quality style as of 6 April 2022.



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