

A background image of a dense forest of evergreen trees shrouded in thick, yellowish-white fog. The fog is most prominent in the upper half of the image, creating a misty atmosphere. The trees are dark green and their silhouettes are visible against the lighter fog. A dark teal banner is overlaid on the bottom half of the image, containing the title and other text.

Monthly Global Equity Market Insight

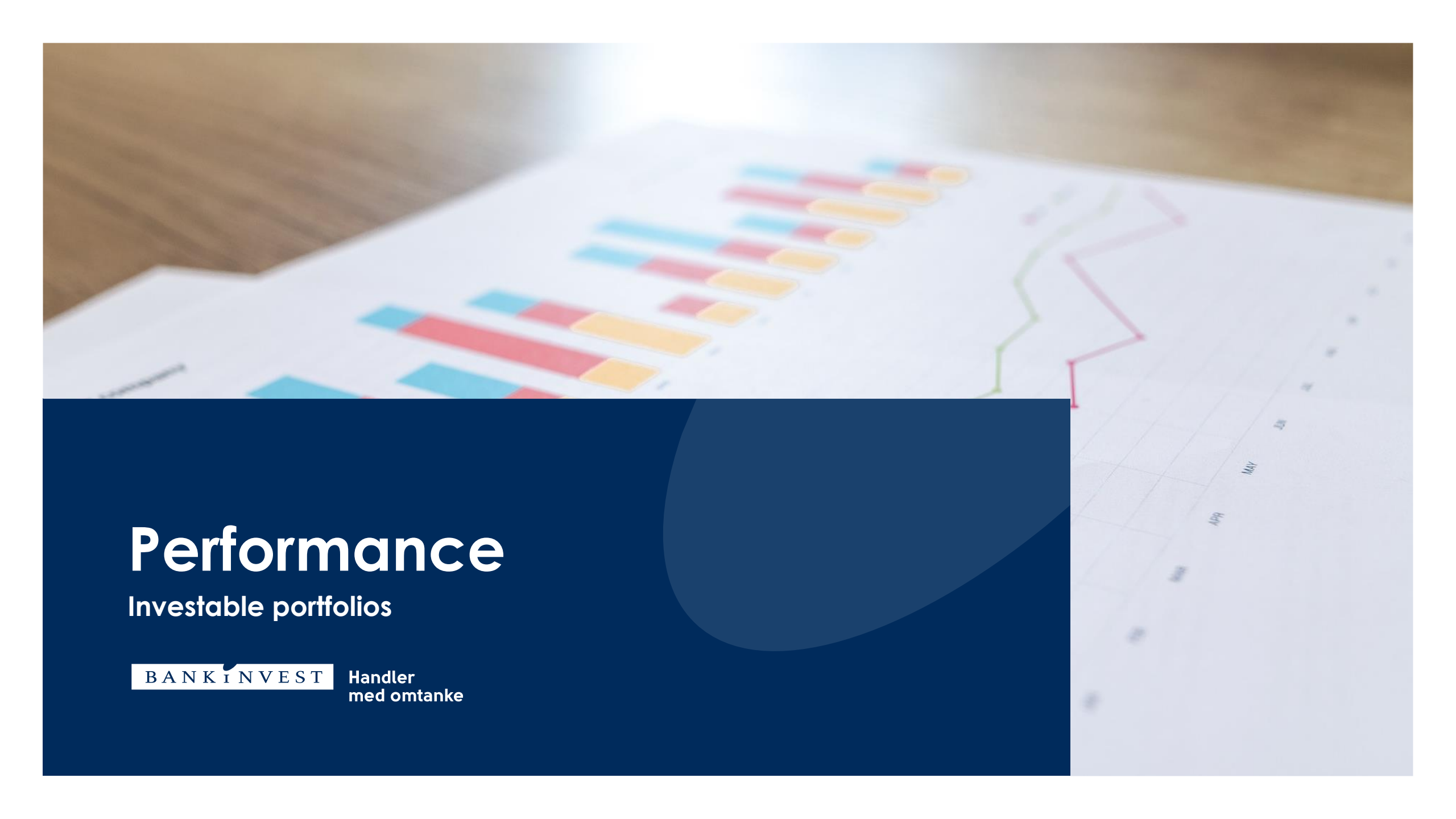
December-2022

BANK INVEST

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Investment strategies definitions

BIQ	Quality BIQ	Profitability, profitability growth and safety
	Momentum BIQ	Price Momentum and Sentiment
	Stability BIQ	A composite of low beta, low price volatility and total shareholder yield
	Value BIQ	Industry specific composite value score. In most industries more emphasis on cash flow value
Academic	Dividend Yield	LTM dividend yield
	Growth	Composite growth in historical and forward-looking earnings and revenue growth
	High volatility	High volatility
	Low Volatility	Low volatility
	Price Momentum	Price momentum on different time horizons (risk-adjusted)
	Classic Quality	Rentability, debt burden and variation in earnings
	Sentiment	A composite measure of analyst revision and recommendation changes
Cap-Size	Deep value	Blend of book and earning measures
	Size: Large Cap	Size: Large Cap
Multi-factor	Size: Mid Cap	Size: Mid Cap
	BIQ-QARP	A multi-factor model emphasizing quality, valuation and safety in earnings.
Cycle model	BIQ-Score	A multi-factor model focusing on classic empirically validated factors
	Expansion	Multi-factor, emphasis on factors that work in expansion ie. low quality, value and momentum
	Recession	Multi-factor, emphasis on factors that work in recession ie. high quality, low volatility, large cap
	Recovery	Multi-factor, emphasis on factors that work in recovery ie. value, high risk, low quality, small cap
	Slowdown	Multi-factor, emphasis on factors that work in slowdown ie. high quality, growth, large cap
Sustainable Target	ESG	Highest ESG
	Low Carbon	Lowest Carbon
	SDG	Highest SDG



Performance

Investable portfolios

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Investable Portfolios - methodology



Portfolios are rebalanced every 2. month



Sector neutral



Size adjusted



Regional neutral



Single Stock capped



Liquidity

Investable Portfolios - methodology

All **Investable** portfolios have been constructed the following

- Portfolios are rebalanced every 2. month
- Sector neutral
- Size adjusted (zSIZE +/-0.20), except the cap portfolios
- Regional neutral
- Single Stock capped at +/-1% active weight
- All companies has a minimum USD 10 m daily traded

	#Stocks
Global	200
US	125
EU	125
JP	80
EM	125

Definition of sustainability



Exclude controversial industries



Low carbon emissions



High ESG Rating



Impact Investing



Norm based screening

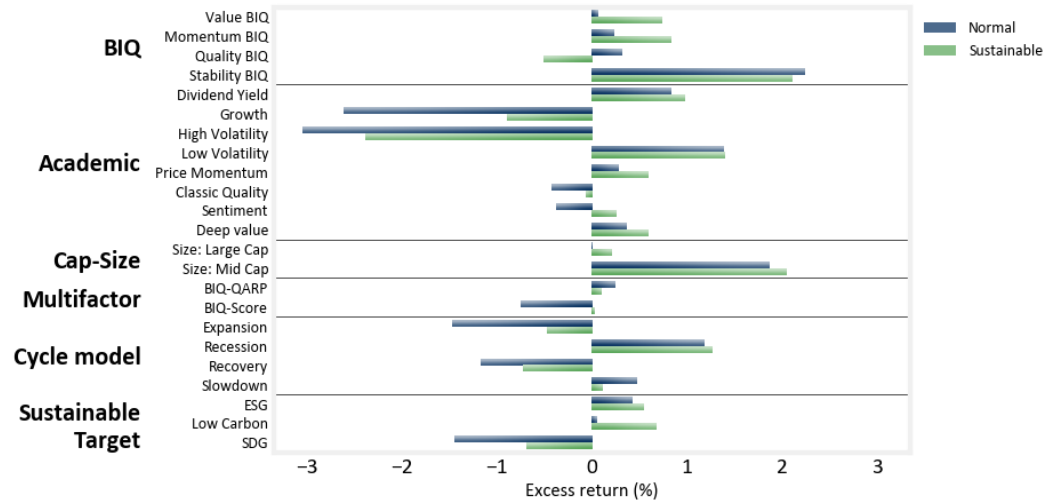
Sustainability

It is hard to define sustainability unambiguously. As it has multiple dimensions and to some extent is individual. At BankInvest we have created the following definition:

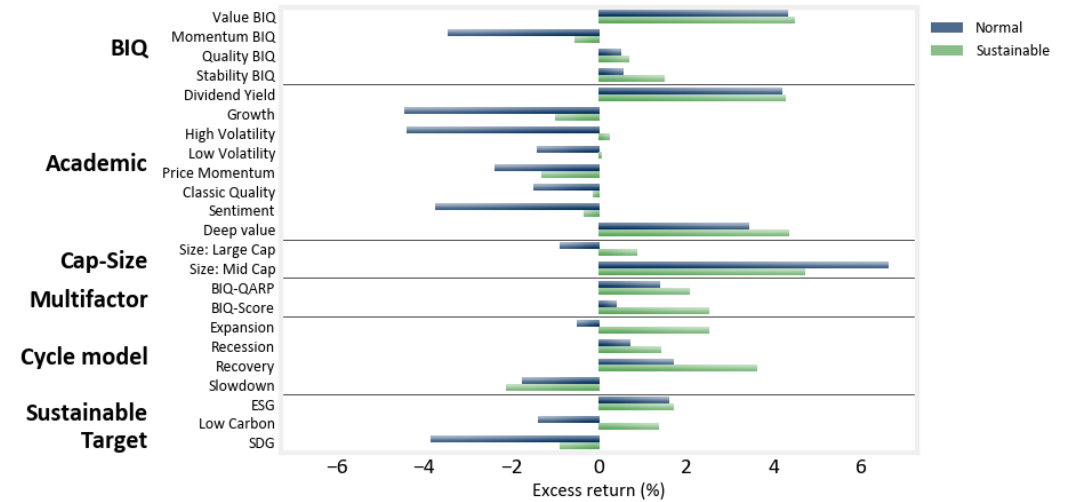
- Exclusion of: tobacco, fossil fuels, weapons and nuclear power
- A sustainable portfolio must not emit more than half as much CO2 as its benchmark
- The individual companies cannot have a CCC or B ESG rating (MSCI). The overall portfolio must have an AA rating except the EM portfolios that have an A.
- Minimum 20% of the revenue in the portfolio must have a positive effect on the UN's global sustainability goals
- All companies must obey the UN's global compact principles

Global style factors

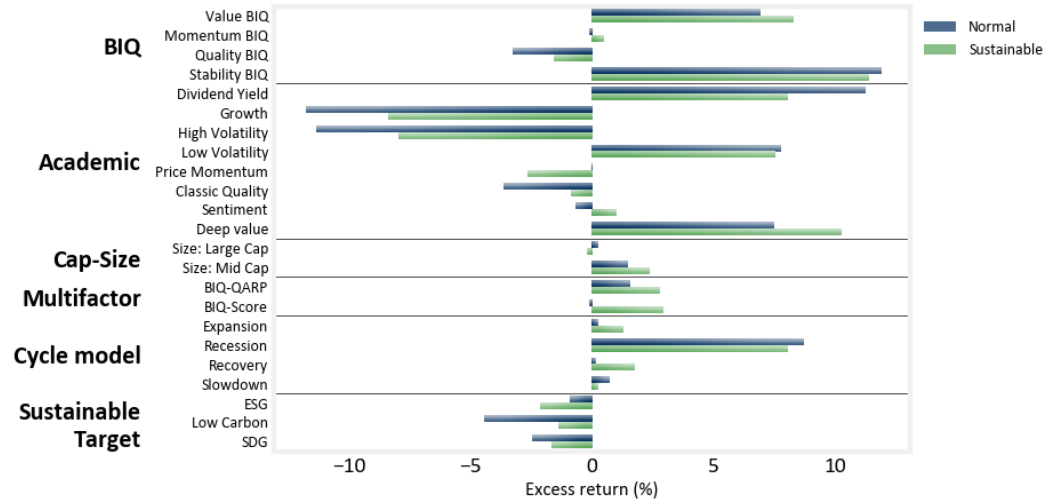
Month-to-date



Quarter-to-date



Year-to-date



Global: Portfolios

Benchmark: MSCI AC World TR Net

			Month-to-date			Quarter-to-date			Year-to-date		
Factor group	Factor name	Date	Factor	Bm	Excess	Factor	Bm	Excess	Factor	Bm	Excess
BIQ	Value BIQ	2022-12-30	-7.26 %	-7.34 %	7 bps	5.09 %	0.77 %	432 bps	-6.09 %	-13.03 %	693 bps
	Momentum BIQ	2022-12-30	-7.10 %	-7.34 %	24 bps	-2.69 %	0.77 %	-346 bps	-13.17 %	-13.03 %	-14 bps
	Quality BIQ	2022-12-30	-7.02 %	-7.34 %	32 bps	1.29 %	0.77 %	52 bps	-16.28 %	-13.03 %	-326 bps
	Stability BIQ	2022-12-30	-5.10 %	-7.34 %	224 bps	1.32 %	0.77 %	55 bps	-1.15 %	-13.03 %	1188 bps
Academic	Dividend Yield	2022-12-30	-6.51 %	-7.34 %	83 bps	4.97 %	0.77 %	420 bps	-1.81 %	-13.03 %	1122 bps
	Growth	2022-12-30	-9.95 %	-7.34 %	-261 bps	-3.68 %	0.77 %	-445 bps	-24.80 %	-13.03 %	-1178 bps
	High Volatility	2022-12-30	-10.38 %	-7.34 %	-304 bps	-3.64 %	0.77 %	-440 bps	-24.37 %	-13.03 %	-1134 bps
	Low Volatility	2022-12-30	-5.95 %	-7.34 %	139 bps	-0.65 %	0.77 %	-142 bps	-5.27 %	-13.03 %	775 bps
	Price Momentum	2022-12-30	-7.06 %	-7.34 %	28 bps	-1.62 %	0.77 %	-239 bps	-12.98 %	-13.03 %	4 bps
	Classic Quality	2022-12-30	-7.77 %	-7.34 %	-43 bps	-0.73 %	0.77 %	-150 bps	-16.67 %	-13.03 %	-365 bps
	Sentiment	2022-12-30	-7.72 %	-7.34 %	-38 bps	-2.97 %	0.77 %	-374 bps	-13.70 %	-13.03 %	-68 bps
	Deep value	2022-12-30	-6.97 %	-7.34 %	37 bps	4.21 %	0.77 %	344 bps	-5.56 %	-13.03 %	747 bps
Cap-Size	Size: Large Cap	2022-12-30	-7.33 %	-7.34 %	1 bps	-0.15 %	0.77 %	-91 bps	-12.77 %	-13.03 %	25 bps
	Size: Mid Cap	2022-12-30	-5.47 %	-7.34 %	187 bps	7.38 %	0.77 %	661 bps	-11.57 %	-13.03 %	146 bps
Multifactor	BIQ-QARP	2022-12-30	-7.08 %	-7.34 %	25 bps	2.18 %	0.77 %	141 bps	-11.44 %	-13.03 %	158 bps
	BIQ-Score	2022-12-30	-8.09 %	-7.34 %	-75 bps	1.18 %	0.77 %	41 bps	-13.14 %	-13.03 %	-11 bps
Cycle model	Expansion	2022-12-30	-8.81 %	-7.34 %	-147 bps	0.27 %	0.77 %	-50 bps	-12.76 %	-13.03 %	26 bps
	Recession	2022-12-30	-6.15 %	-7.34 %	118 bps	1.49 %	0.77 %	72 bps	-4.33 %	-13.03 %	870 bps
	Recovery	2022-12-30	-8.50 %	-7.34 %	-117 bps	2.49 %	0.77 %	172 bps	-12.87 %	-13.03 %	15 bps
	Slowdown	2022-12-30	-6.87 %	-7.34 %	47 bps	-1.00 %	0.77 %	-177 bps	-12.30 %	-13.03 %	72 bps
Sustainable Target	ESG	2022-12-30	-6.91 %	-7.34 %	43 bps	2.38 %	0.77 %	161 bps	-13.96 %	-13.03 %	-93 bps
	Low Carbon	2022-12-30	-7.28 %	-7.34 %	6 bps	-0.62 %	0.77 %	-139 bps	-17.46 %	-13.03 %	-444 bps
	SDG	2022-12-30	-8.79 %	-7.34 %	-145 bps	-3.08 %	0.77 %	-385 bps	-15.50 %	-13.03 %	-248 bps

Global: Sustainable portfolios

Benchmark: MSCI AC World TR Net

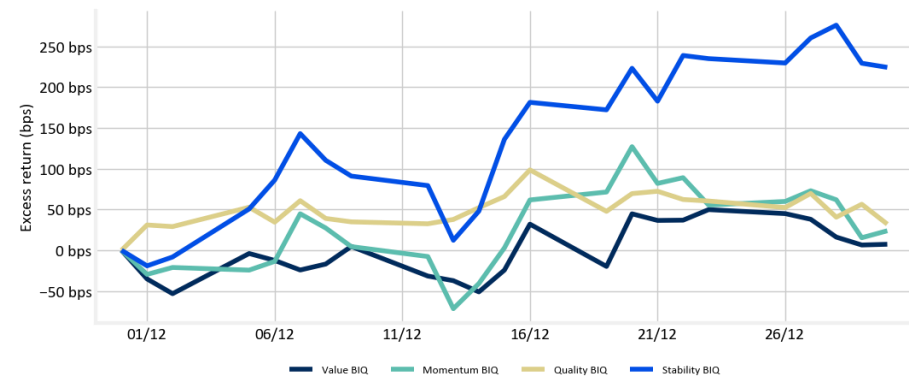
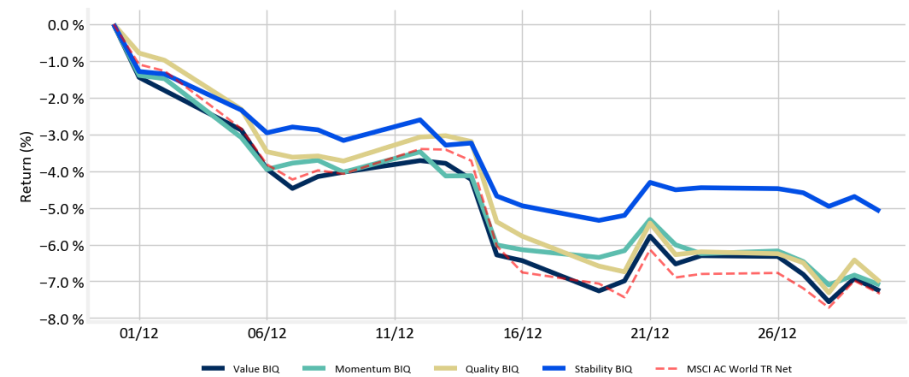
			Month-to-date			Quarter-to-date			Year-to-date		
Factor group	Factor name	Date	Factor	Bm	Excess	Factor	Bm	Excess	Factor	Bm	Excess
BIQ	Value BIQ	2022-12-30	-6.60 %	-7.34 %	74 bps	5.23 %	0.77 %	447 bps	-4.75 %	-13.03 %	828 bps
	Momentum BIQ	2022-12-30	-6.50 %	-7.34 %	84 bps	0.20 %	0.77 %	-57 bps	-12.54 %	-13.03 %	49 bps
	Quality BIQ	2022-12-30	-7.84 %	-7.34 %	-51 bps	1.46 %	0.77 %	70 bps	-14.58 %	-13.03 %	-156 bps
	Stability BIQ	2022-12-30	-5.23 %	-7.34 %	211 bps	2.27 %	0.77 %	151 bps	-1.63 %	-13.03 %	1139 bps
Academic	Dividend Yield	2022-12-30	-6.35 %	-7.34 %	98 bps	5.03 %	0.77 %	426 bps	-4.98 %	-13.03 %	805 bps
	Growth	2022-12-30	-8.23 %	-7.34 %	-89 bps	-0.24 %	0.77 %	-100 bps	-21.42 %	-13.03 %	-839 bps
	High Volatility	2022-12-30	-9.72 %	-7.34 %	-238 bps	1.02 %	0.77 %	26 bps	-20.99 %	-13.03 %	-796 bps
	Low Volatility	2022-12-30	-5.94 %	-7.34 %	140 bps	0.83 %	0.77 %	6 bps	-5.47 %	-13.03 %	755 bps
	Price Momentum	2022-12-30	-6.75 %	-7.34 %	59 bps	-0.54 %	0.77 %	-131 bps	-15.70 %	-13.03 %	-267 bps
	Classic Quality	2022-12-30	-7.41 %	-7.34 %	-7 bps	0.61 %	0.77 %	-15 bps	-13.90 %	-13.03 %	-87 bps
	Sentiment	2022-12-30	-7.08 %	-7.34 %	26 bps	0.42 %	0.77 %	-34 bps	-12.04 %	-13.03 %	99 bps
	Deep value	2022-12-30	-6.74 %	-7.34 %	60 bps	5.12 %	0.77 %	436 bps	-2.79 %	-13.03 %	1024 bps
Cap-Size	Size: Large Cap	2022-12-30	-7.13 %	-7.34 %	21 bps	1.64 %	0.77 %	87 bps	-13.22 %	-13.03 %	-19 bps
	Size: Mid Cap	2022-12-30	-5.29 %	-7.34 %	205 bps	5.47 %	0.77 %	471 bps	-10.67 %	-13.03 %	236 bps
Multifactor	BIQ-QARP	2022-12-30	-7.23 %	-7.34 %	10 bps	2.84 %	0.77 %	207 bps	-10.25 %	-13.03 %	278 bps
	BIQ-Score	2022-12-30	-7.31 %	-7.34 %	3 bps	3.29 %	0.77 %	252 bps	-10.09 %	-13.03 %	294 bps
Cycle model	Expansion	2022-12-30	-7.82 %	-7.34 %	-48 bps	3.30 %	0.77 %	253 bps	-11.73 %	-13.03 %	129 bps
	Recession	2022-12-30	-6.07 %	-7.34 %	127 bps	2.19 %	0.77 %	142 bps	-5.00 %	-13.03 %	803 bps
	Recovery	2022-12-30	-8.07 %	-7.34 %	-73 bps	4.38 %	0.77 %	361 bps	-11.24 %	-13.03 %	178 bps
	Slowdown	2022-12-30	-7.23 %	-7.34 %	11 bps	-1.37 %	0.77 %	-214 bps	-12.79 %	-13.03 %	24 bps
Sustainable Target	ESG	2022-12-30	-6.78 %	-7.34 %	55 bps	2.47 %	0.77 %	170 bps	-15.15 %	-13.03 %	-213 bps
	Low Carbon	2022-12-30	-6.65 %	-7.34 %	68 bps	2.13 %	0.77 %	136 bps	-14.41 %	-13.03 %	-138 bps
	SDG	2022-12-30	-8.03 %	-7.34 %	-69 bps	-0.13 %	0.77 %	-90 bps	-14.69 %	-13.03 %	-167 bps



Global: BIQ (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

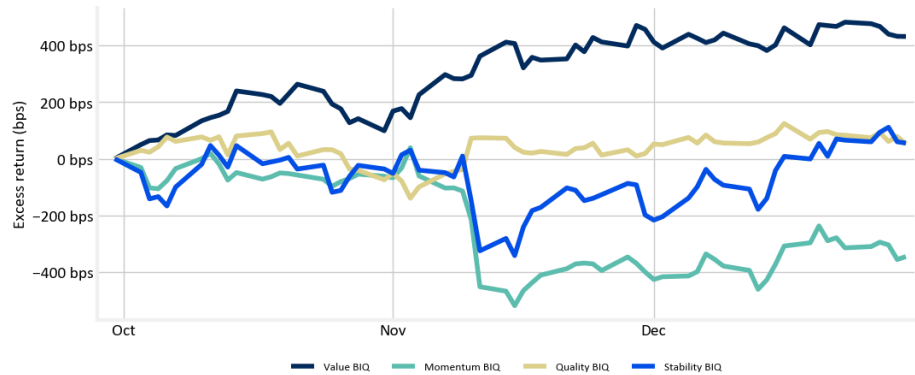
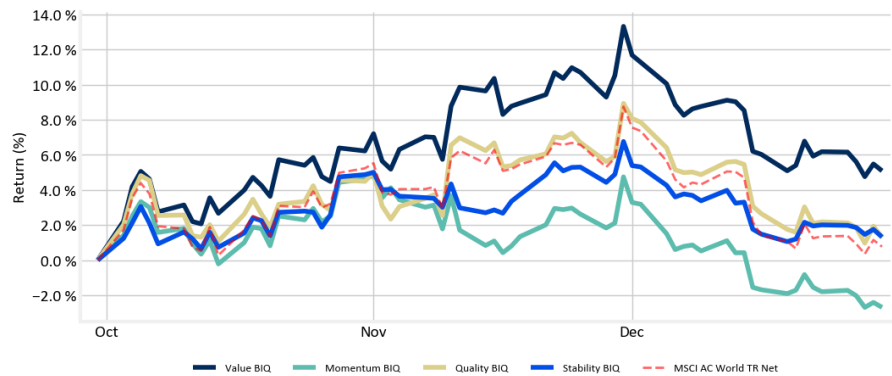


	Factor	Bm	Excess
Value BIQ	-7.26 %	-7.34 %	7 bps
Momentum BIQ	-7.10 %	-7.34 %	24 bps
Quality BIQ	-7.02 %	-7.34 %	32 bps
Stability BIQ	-5.10 %	-7.34 %	224 bps

Global: BIQ (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

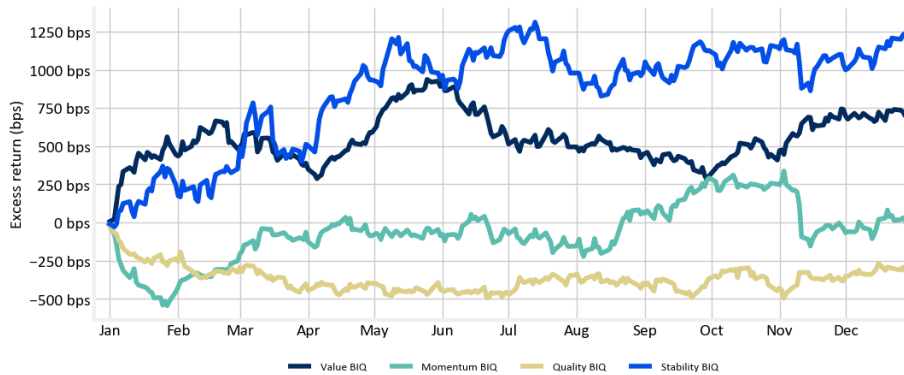
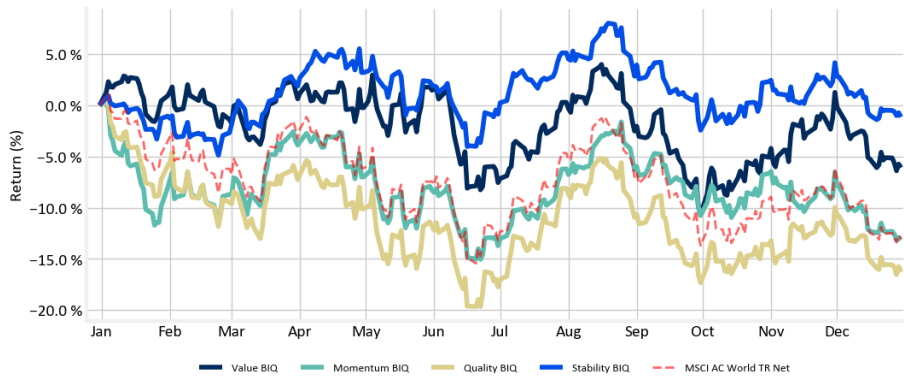


	Factor	Bm	Excess
Value BIQ	5.09 %	0.77 %	432 bps
Momentum BIQ	-2.69 %	0.77 %	-346 bps
Quality BIQ	1.29 %	0.77 %	52 bps
Stability BIQ	1.32 %	0.77 %	55 bps

Global: BIQ (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

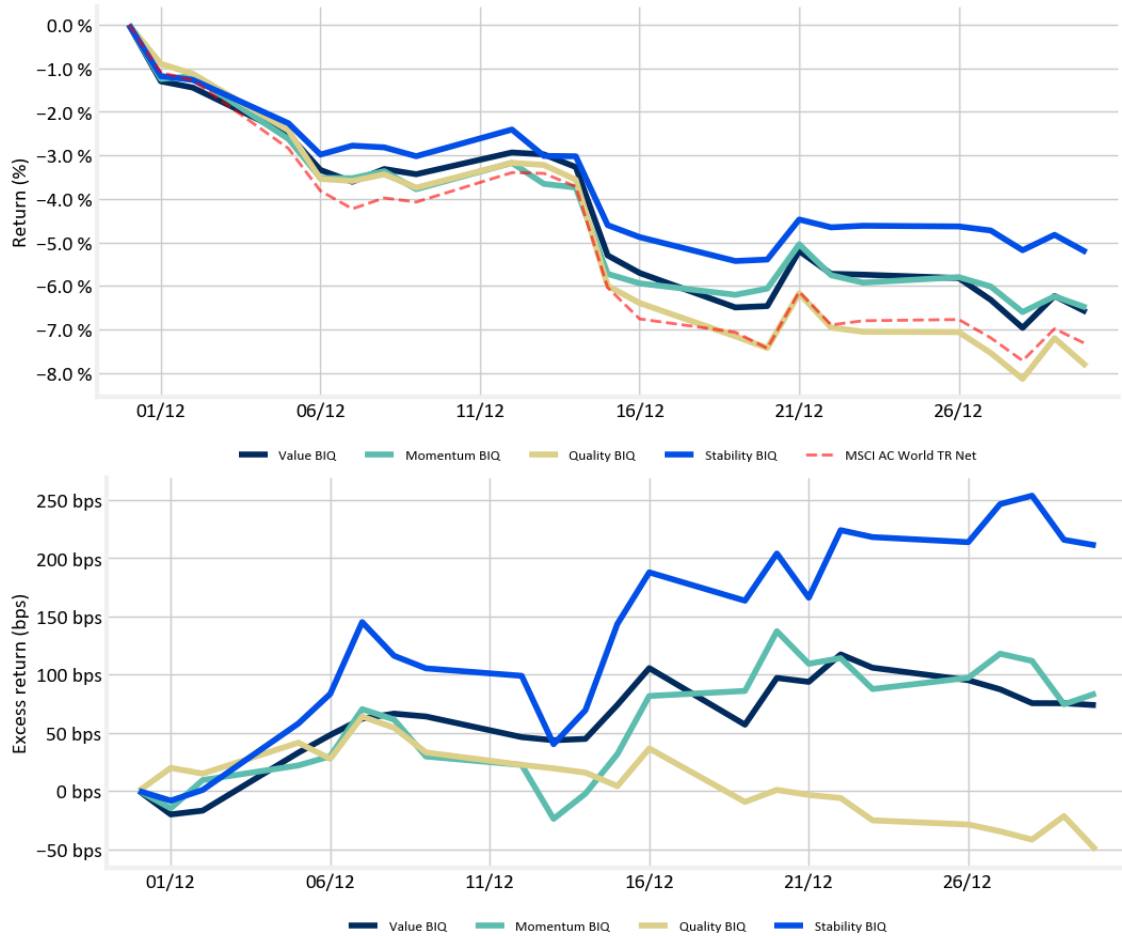


	Factor	Bm	Excess
Value BIQ	-6.09 %	-13.03 %	693 bps
Momentum BIQ	-13.17 %	-13.03 %	-14 bps
Quality BIQ	-16.28 %	-13.03 %	-326 bps
Stability BIQ	-1.15 %	-13.03 %	1188 bps

Global: BIQ (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



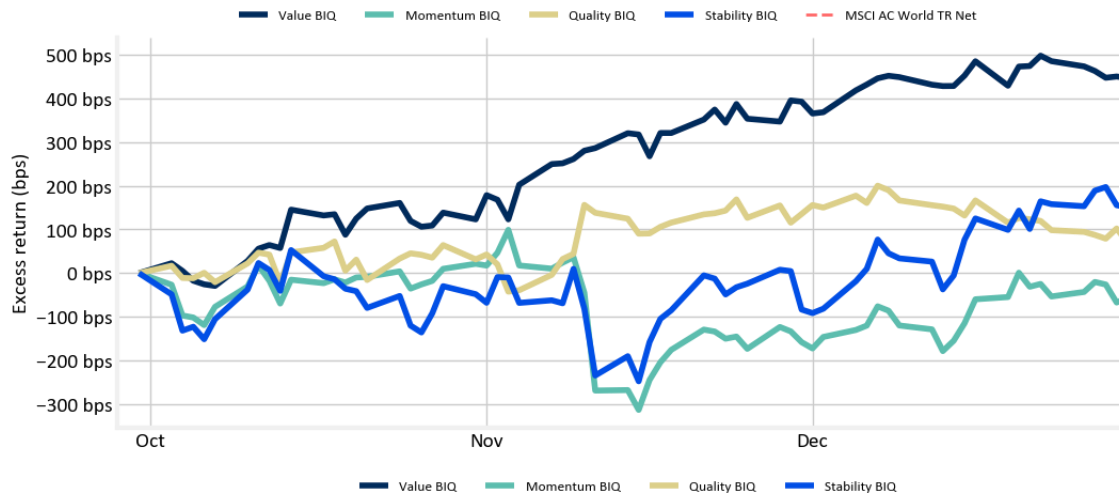
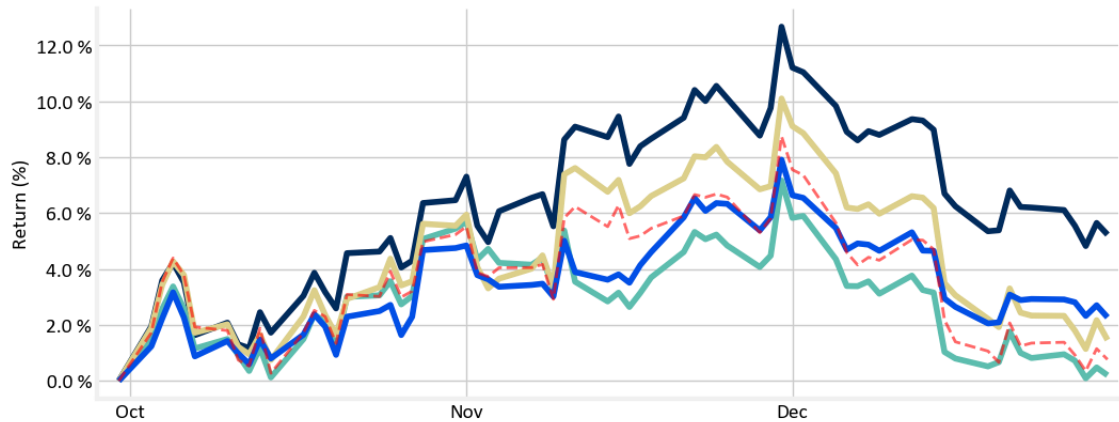
	Factor	Bm	Excess
Value BIQ	-6.60 %	-7.34 %	74 bps
Momentum BIQ	-6.50 %	-7.34 %	84 bps
Quality BIQ	-7.84 %	-7.34 %	-51 bps
Stability BIQ	-5.23 %	-7.34 %	211 bps



Global: BIQ (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



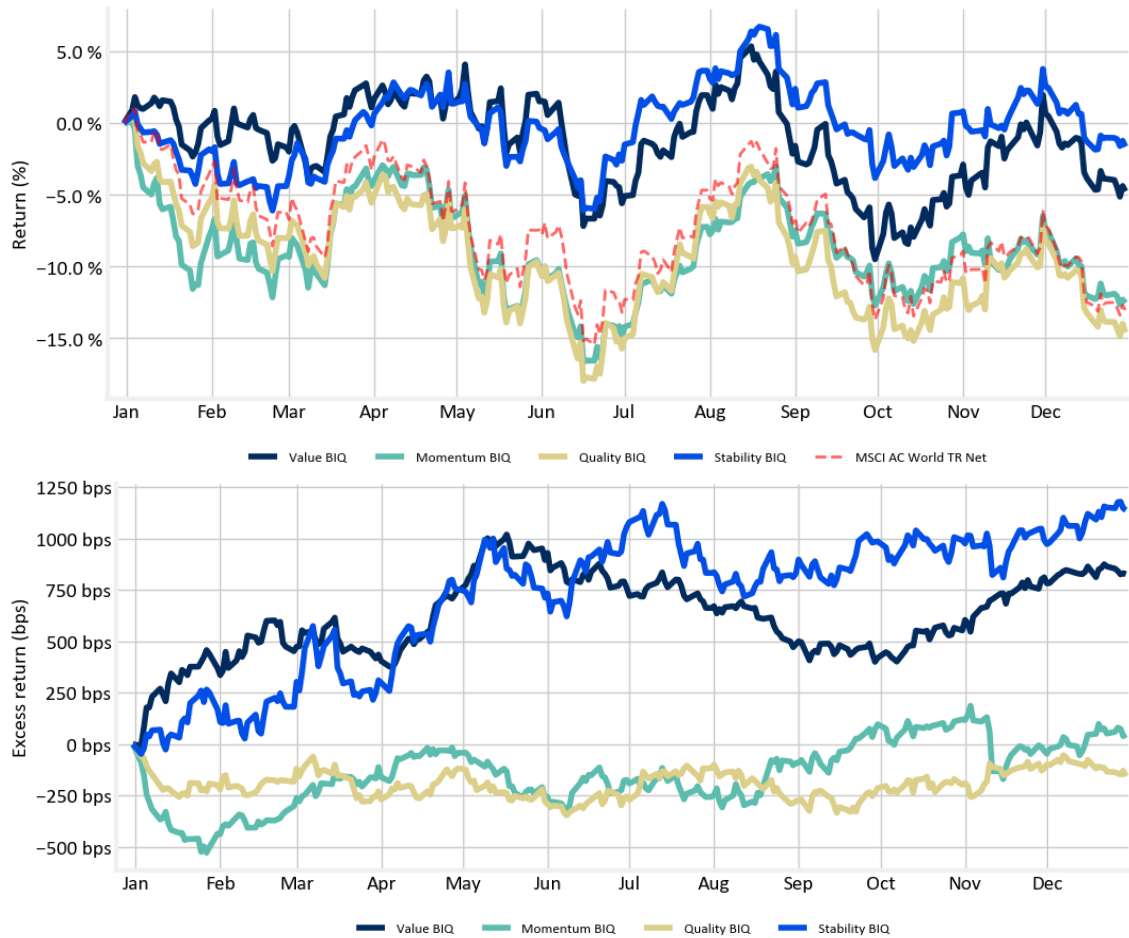
	Factor	Bm	Excess
Value BIQ	5.23 %	0.77 %	447 bps
Momentum BIQ	0.20 %	0.77 %	-57 bps
Quality BIQ	1.46 %	0.77 %	70 bps
Stability BIQ	2.27 %	0.77 %	151 bps



Global: BIQ (sustainable)

Benchmark: MSCI AC World TR Net

Year-to-date



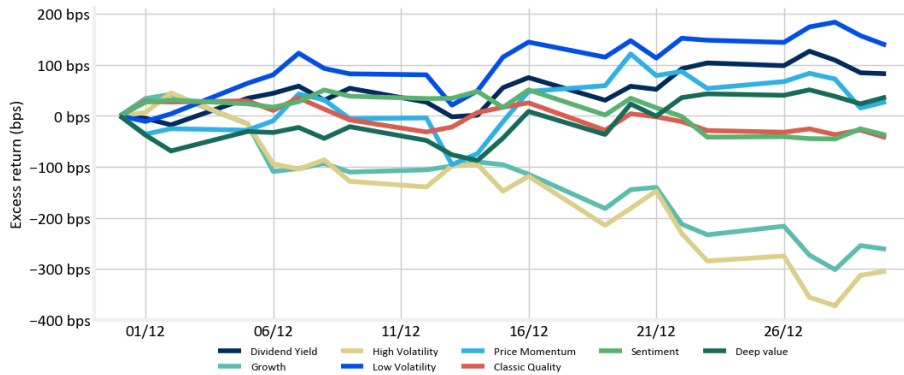
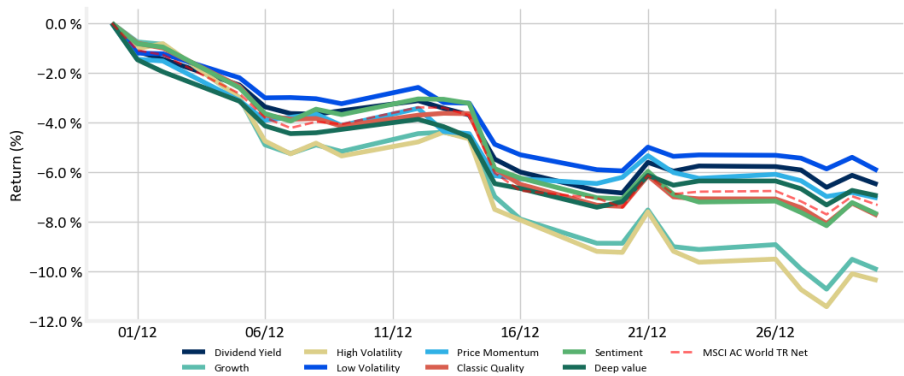
	Factor	Bm	Excess
Value BIQ	-4.75 %	-13.03 %	828 bps
Momentum BIQ	-12.54 %	-13.03 %	49 bps
Quality BIQ	-14.58 %	-13.03 %	-156 bps
Stability BIQ	-1.63 %	-13.03 %	1139 bps



Global: Academic (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

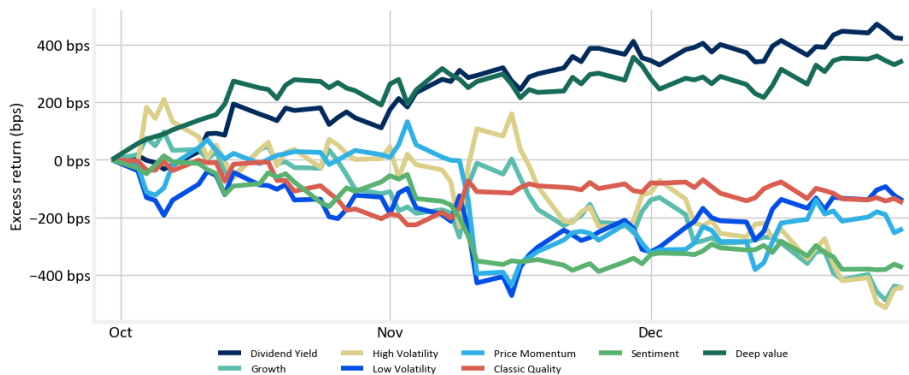
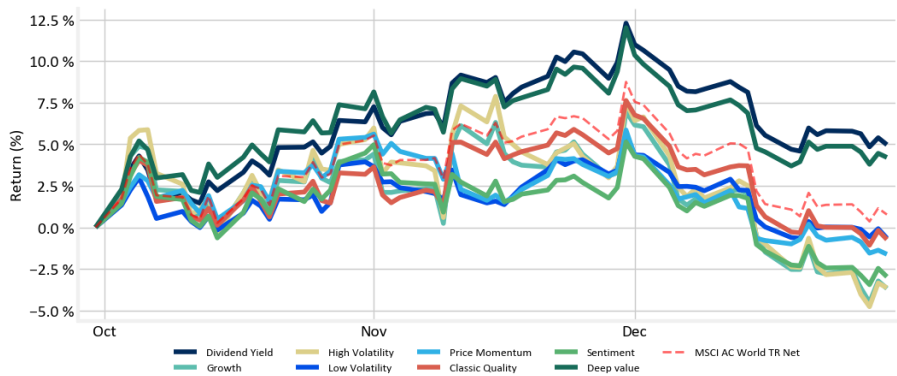


	Factor	Bm	Excess
Dividend Yield	-6.51 %	-7.34 %	83 bps
Growth	-9.95 %	-7.34 %	-261 bps
High Volatility	-10.38 %	-7.34 %	-304 bps
Low Volatility	-5.95 %	-7.34 %	139 bps
Price Momentum	-7.06 %	-7.34 %	28 bps
Classic Quality	-7.77 %	-7.34 %	-43 bps
Sentiment	-7.72 %	-7.34 %	-38 bps
Deep value	-6.97 %	-7.34 %	37 bps

Global: Academic (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

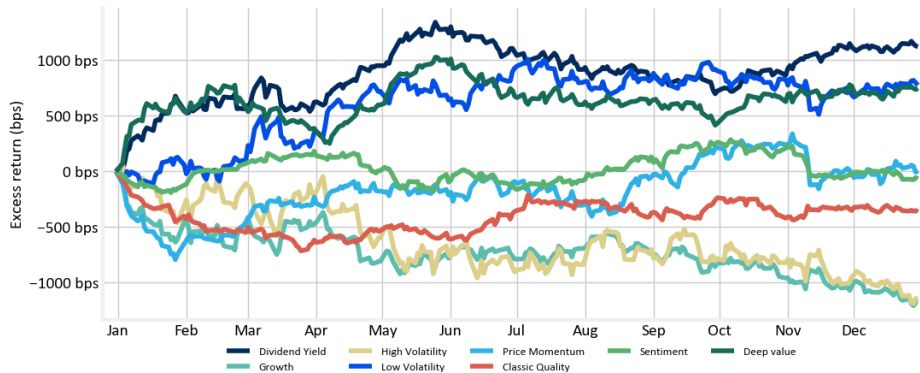
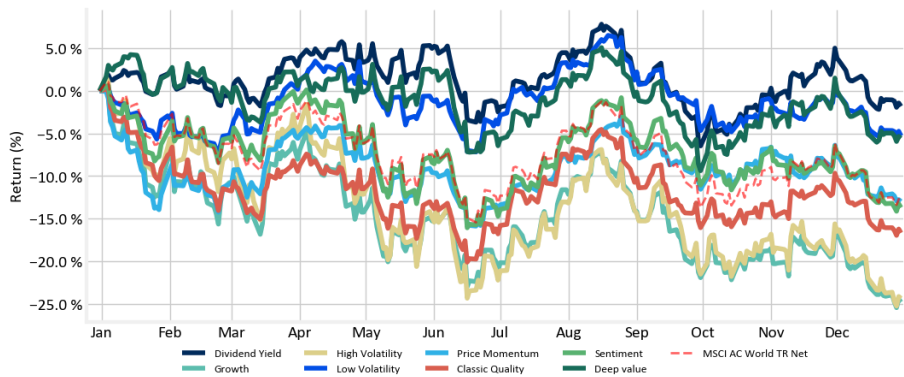


	Factor	Bm	Excess
Dividend Yield	4.97 %	0.77 %	420 bps
Growth	-3.68 %	0.77 %	-445 bps
High Volatility	-3.64 %	0.77 %	-440 bps
Low Volatility	-0.65 %	0.77 %	-142 bps
Price Momentum	-1.62 %	0.77 %	-239 bps
Classic Quality	-0.73 %	0.77 %	-150 bps
Sentiment	-2.97 %	0.77 %	-374 bps
Deep value	4.21 %	0.77 %	344 bps

Global: Academic (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

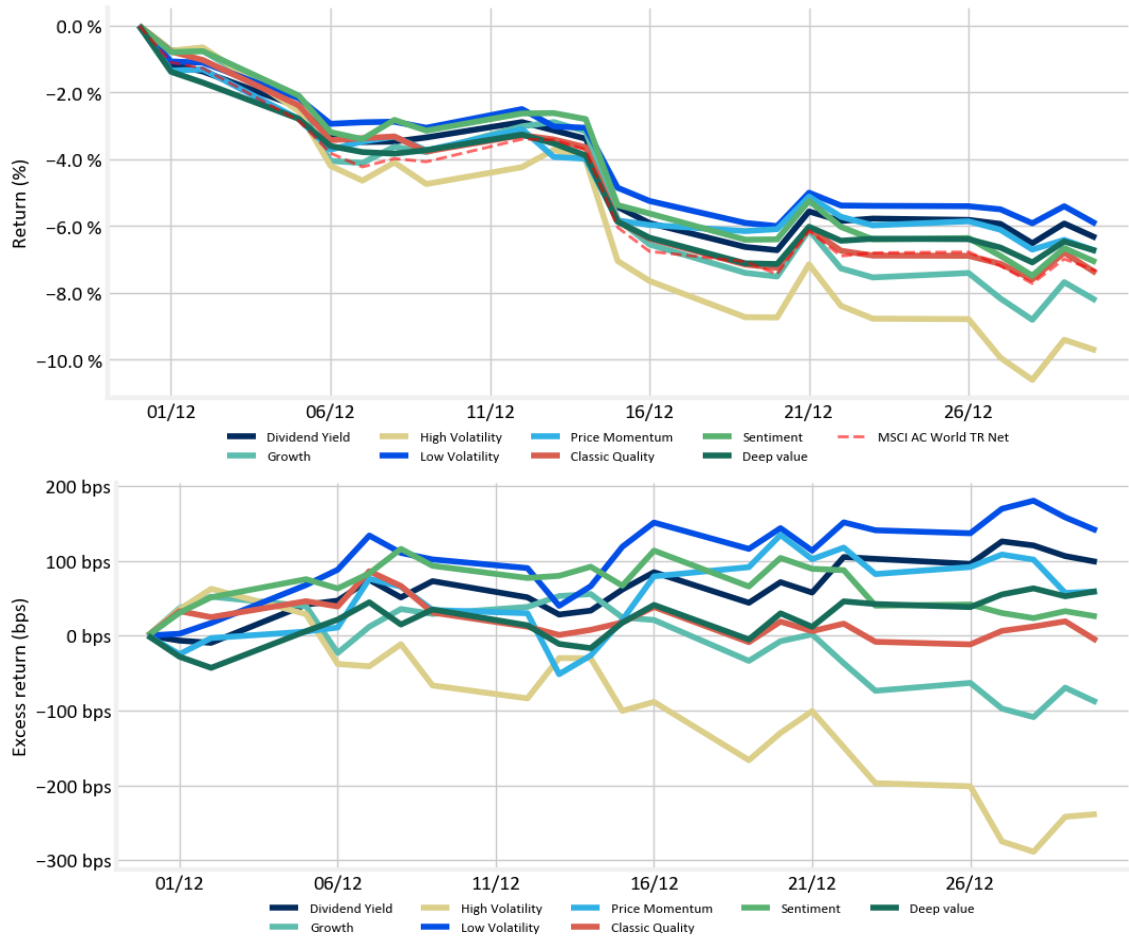


	Factor	Bm	Excess
Dividend Yield	-1.81 %	-13.03 %	1122 bps
Growth	-24.80 %	-13.03 %	-1178 bps
High Volatility	-24.37 %	-13.03 %	-1134 bps
Low Volatility	-5.27 %	-13.03 %	775 bps
Price Momentum	-12.98 %	-13.03 %	4 bps
Classic Quality	-16.67 %	-13.03 %	-365 bps
Sentiment	-13.70 %	-13.03 %	-68 bps
Deep value	-5.56 %	-13.03 %	747 bps

Global: Academic (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



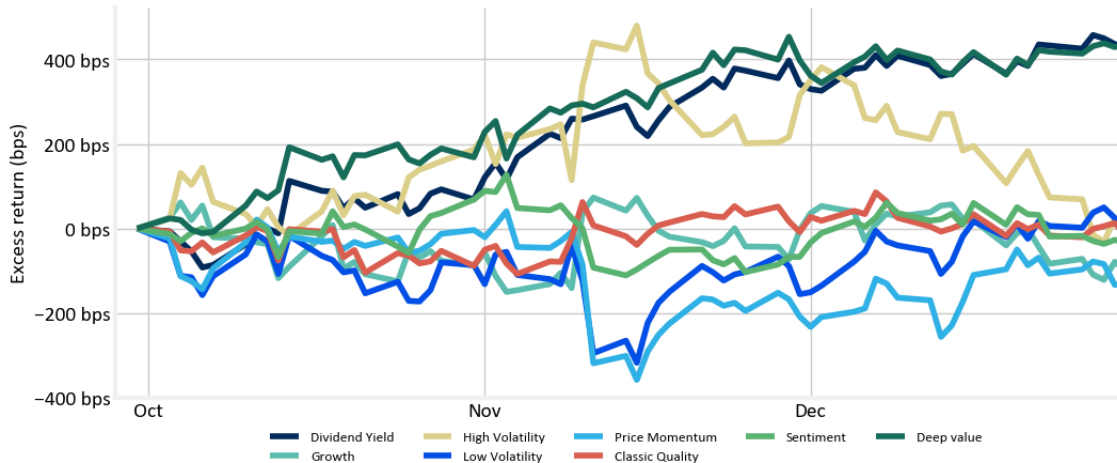
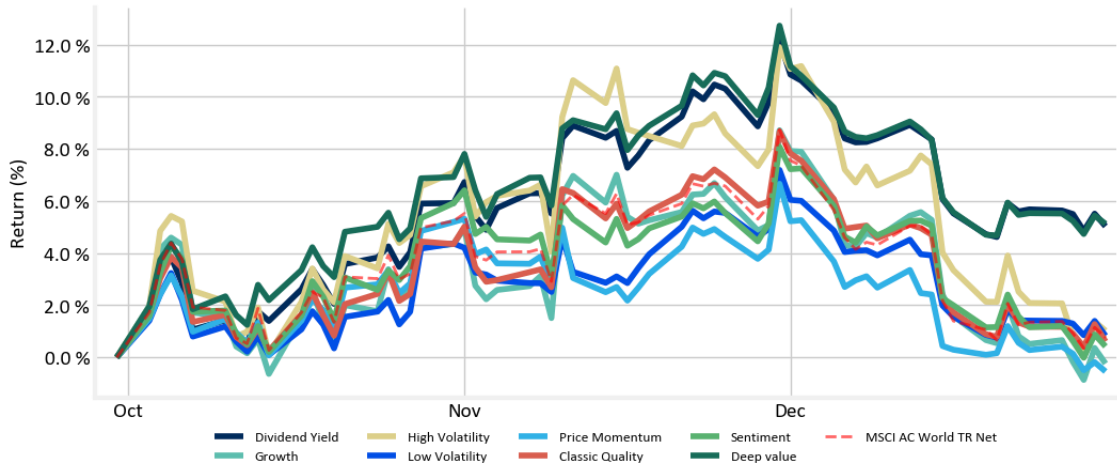
	Factor	Bm	Excess
Dividend Yield	-6.35 %	-7.34 %	98 bps
Growth	-8.23 %	-7.34 %	-89 bps
High Volatility	-9.72 %	-7.34 %	-238 bps
Low Volatility	-5.94 %	-7.34 %	140 bps
Price Momentum	-6.75 %	-7.34 %	59 bps
Classic Quality	-7.41 %	-7.34 %	-7 bps
Sentiment	-7.08 %	-7.34 %	26 bps
Deep value	-6.74 %	-7.34 %	60 bps



Global: Academic (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



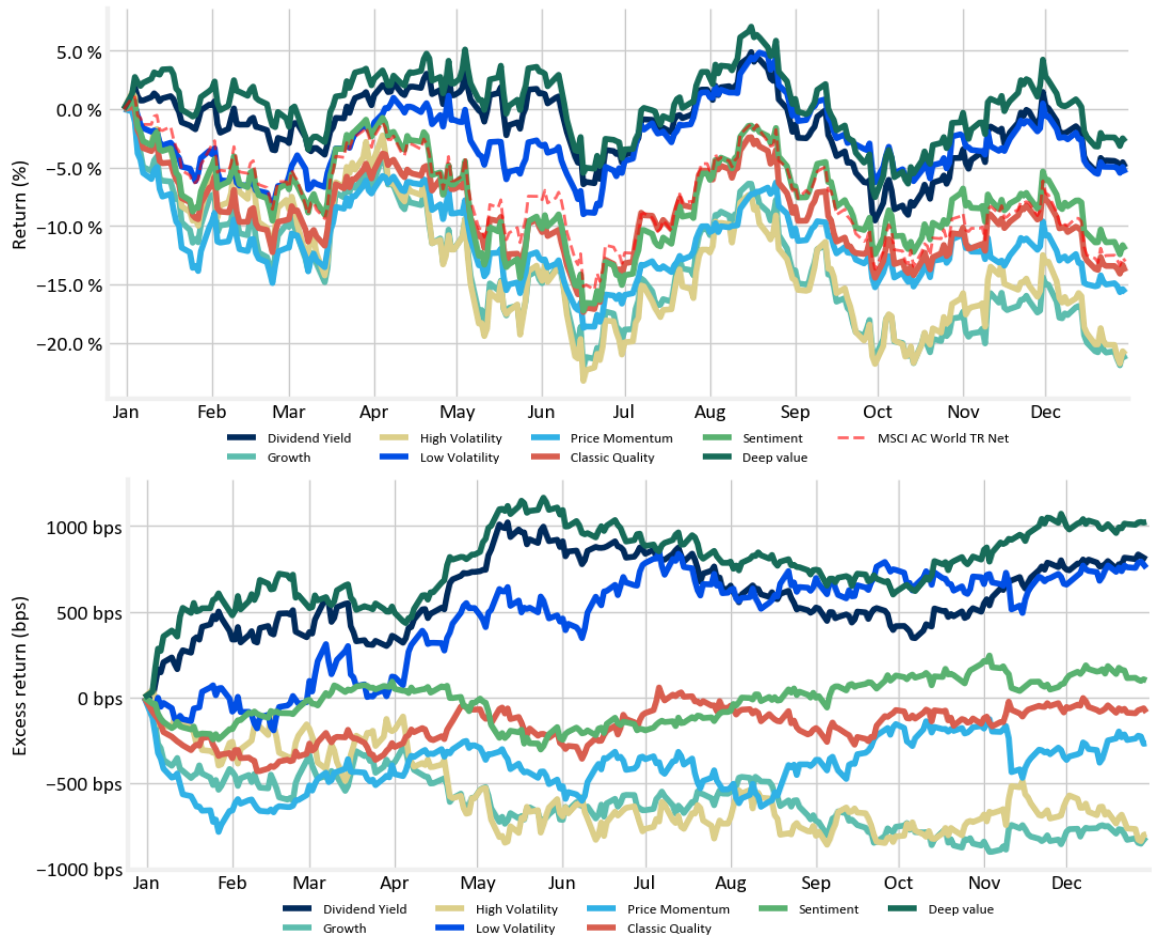
	Factor	Bm	Excess
Dividend Yield	5.03 %	0.77 %	426 bps
Growth	-0.24 %	0.77 %	-100 bps
High Volatility	1.02 %	0.77 %	26 bps
Low Volatility	0.83 %	0.77 %	6 bbps
Price Momentum	-0.54 %	0.77 %	-131 bps
Classic Quality	0.61 %	0.77 %	-15 bbps
Sentiment	0.42 %	0.77 %	-34 bbps
Deep value	5.12 %	0.77 %	436 bps



Global: Academic (sustainable)

Benchmark: MSCI AC World TR Net

Year-to-date



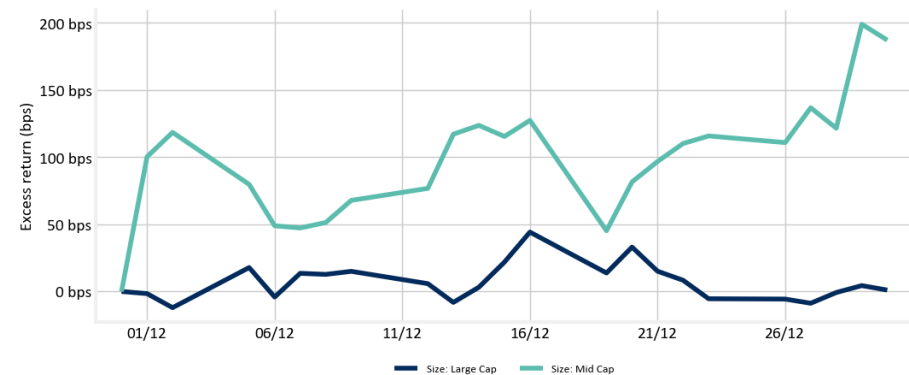
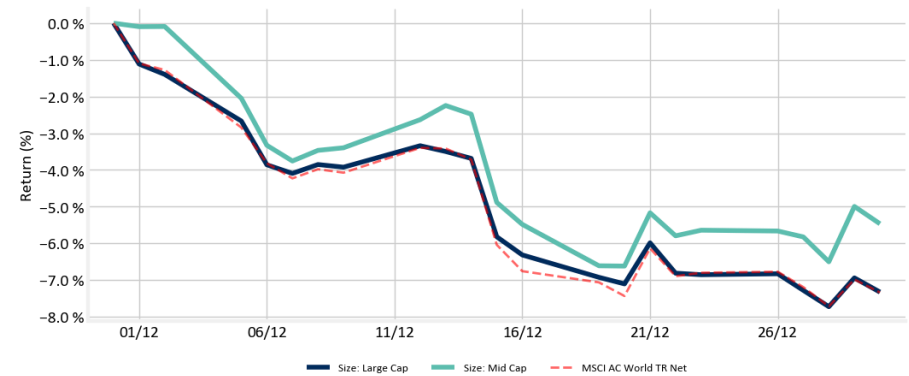
	Factor	Bm	Excess
Dividend Yield	-4.98 %	-13.03 %	805 bps
Growth	-21.42 %	-13.03 %	-839 bps
High Volatility	-20.99 %	-13.03 %	-796 bps
Low Volatility	-5.47 %	-13.03 %	755 bps
Price Momentum	-15.70 %	-13.03 %	-267 bps
Classic Quality	-13.90 %	-13.03 %	-87 bps
Sentiment	-12.04 %	-13.03 %	99 bps
Deep value	-2.79 %	-13.03 %	1024 bps



Global: Cap-Size (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

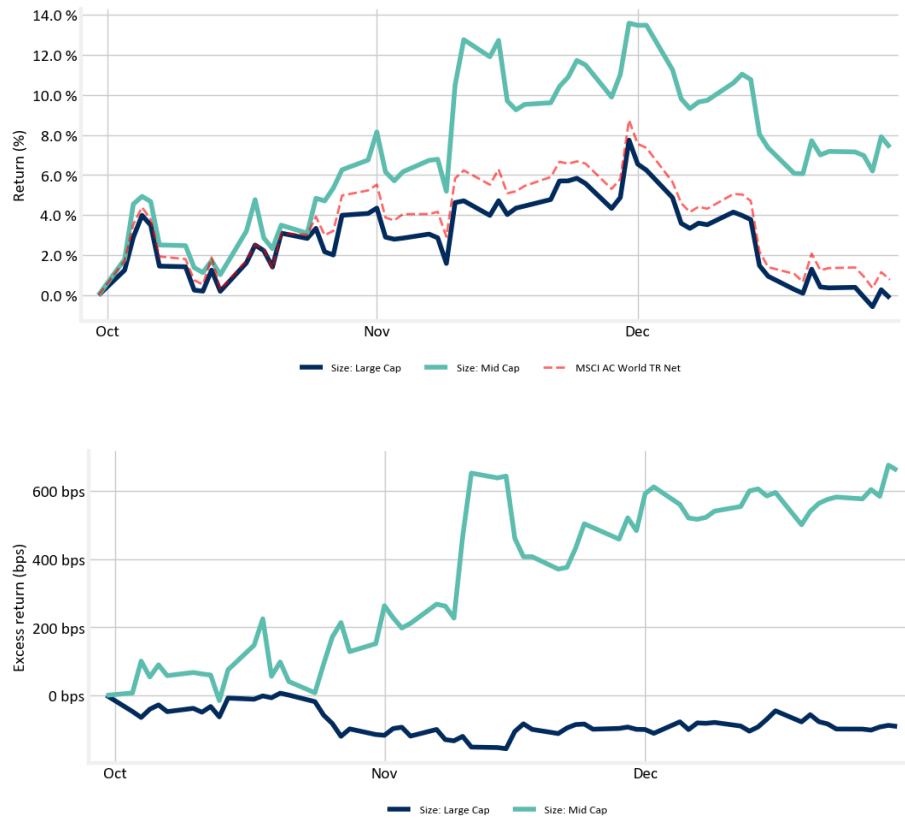


	Factor	Bm	Excess
Size: Large Cap	-7.33 %	-7.34 %	1 bps
Size: Mid Cap	-5.47 %	-7.34 %	187 bps

Global: Cap-Size (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

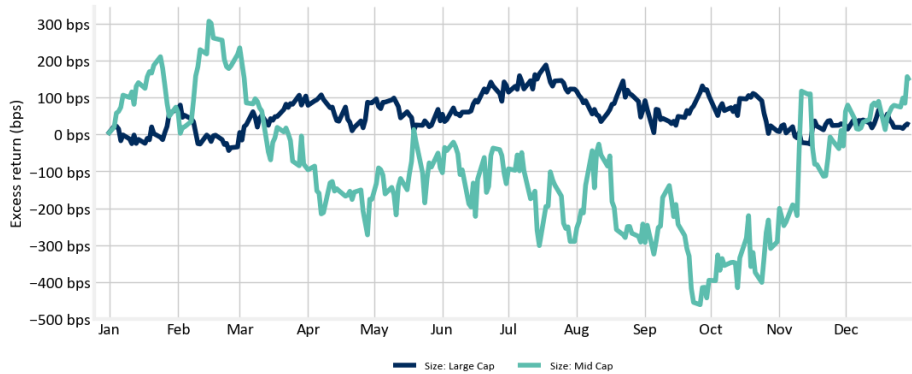
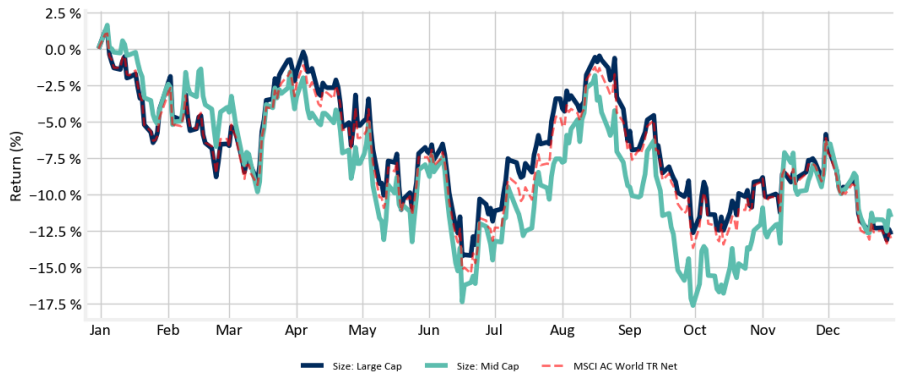


	Factor	Bm	Excess
Size: Large Cap	-0.15 %	0.77 %	-91 bps
Size: Mid Cap	7.38 %	0.77 %	661 bps

Global: Cap-Size (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

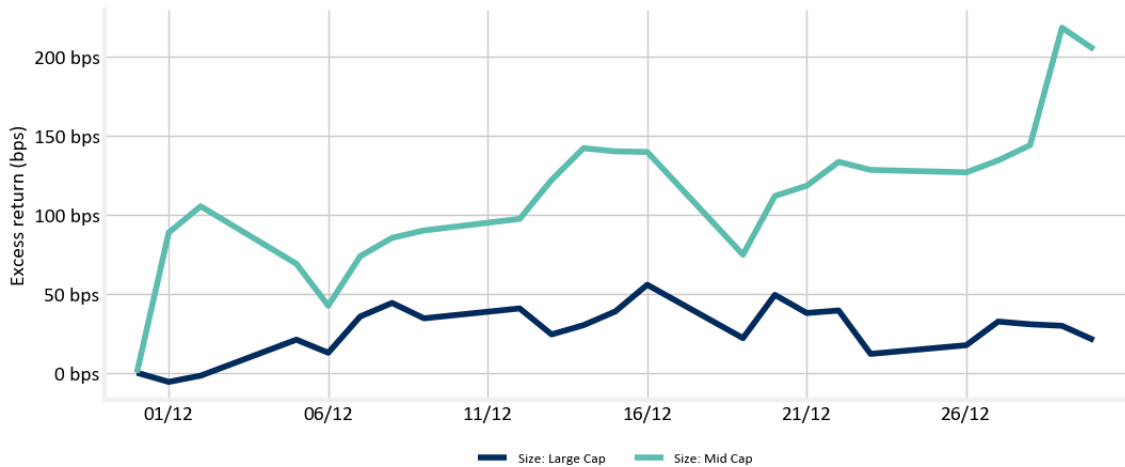
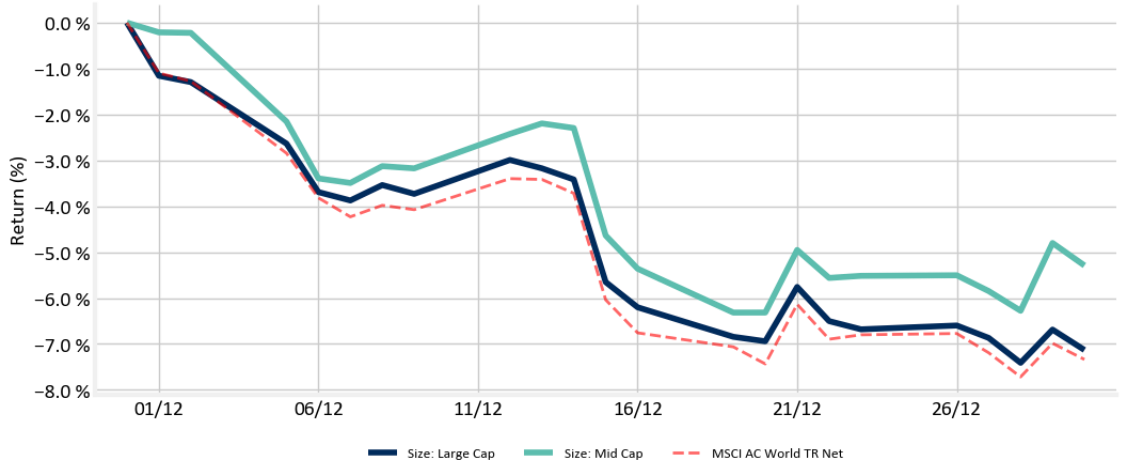


	Factor	Bm	Excess
Size: Large Cap	-12.77 %	-13.03 %	25 bps
Size: Mid Cap	-11.57 %	-13.03 %	146 bps

Global: Cap-Size (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



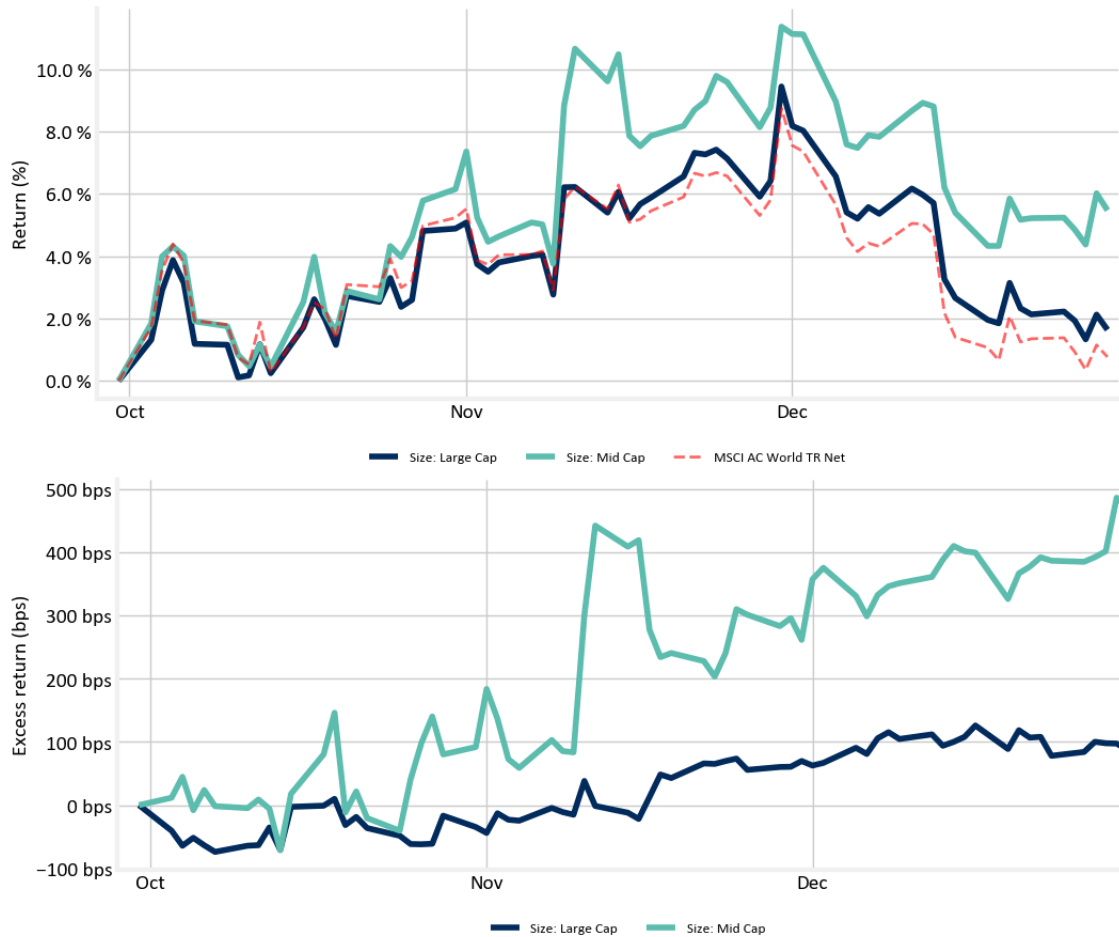
	Factor	Bm	Excess
Size: Large Cap	-7.13 %	-7.34 %	21 bps
Size: Mid Cap	-5.29 %	-7.34 %	205 bps



Global: Cap-Size (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



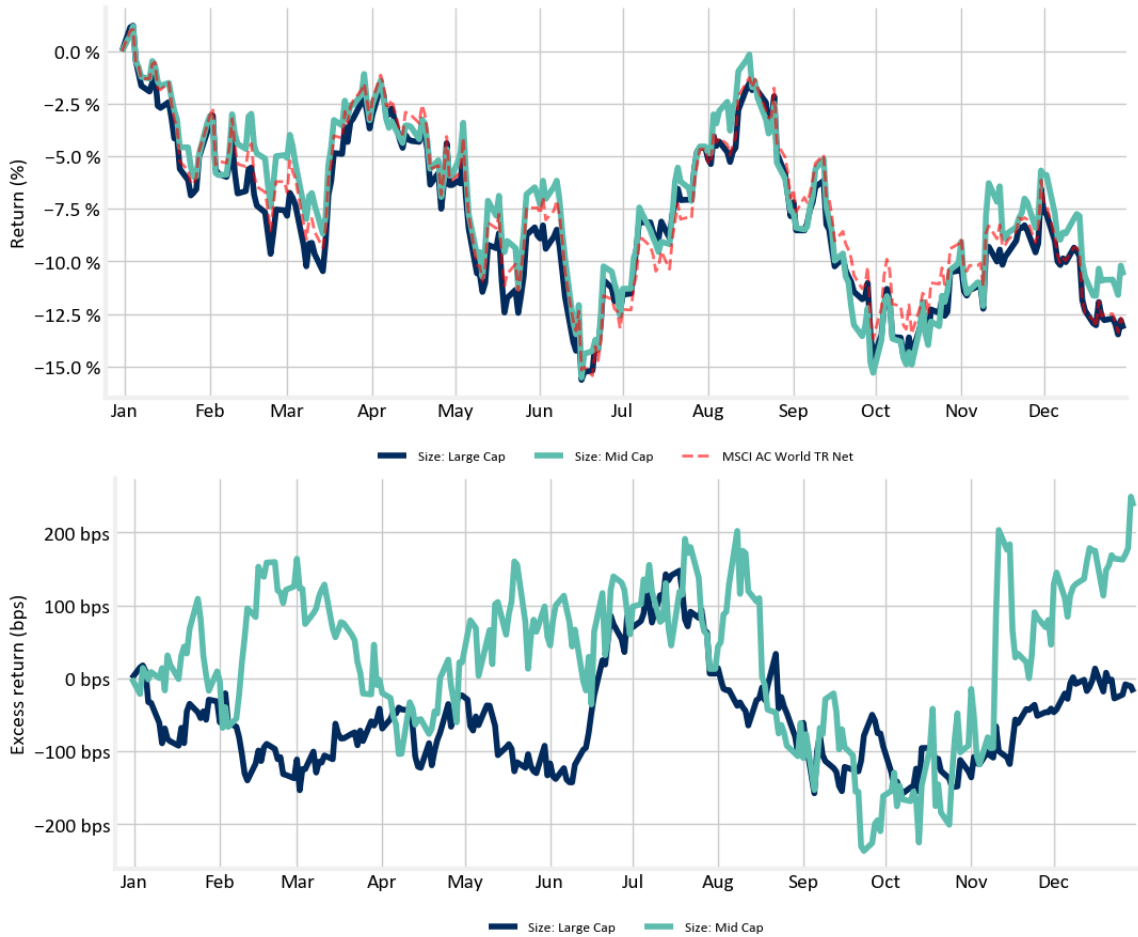
	Factor	Bm	Excess
Size: Large Cap	1.64 %	0.77 %	87 bps
Size: Mid Cap	5.47 %	0.77 %	471 bps



Global: Cap-Size (sustainable)

Benchmark: MSCI AC World TR Net

Year-to-date



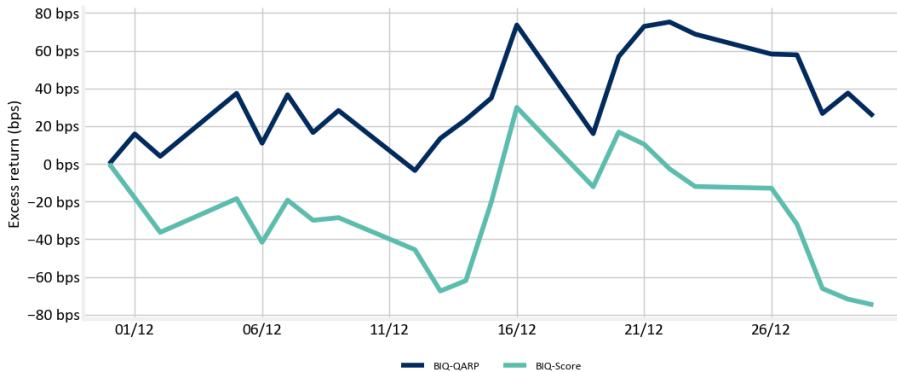
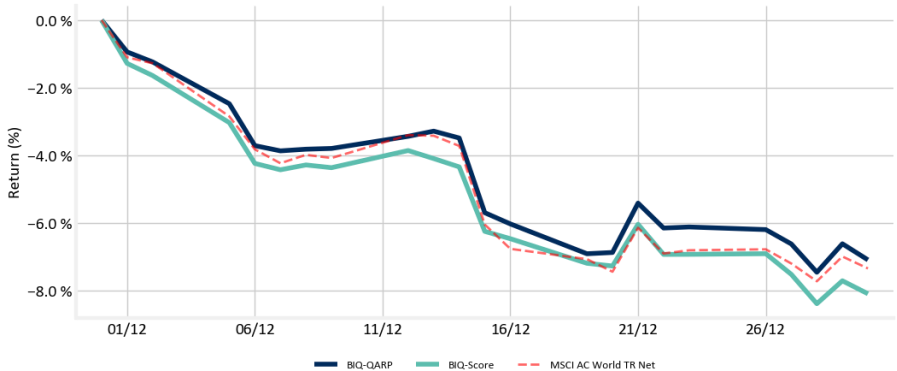
	Factor	Bm	Excess
Size: Large Cap	-13.22 %	-13.03 %	-19 bps
Size: Mid Cap	-10.67 %	-13.03 %	236 bps



Global: Multifactor (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

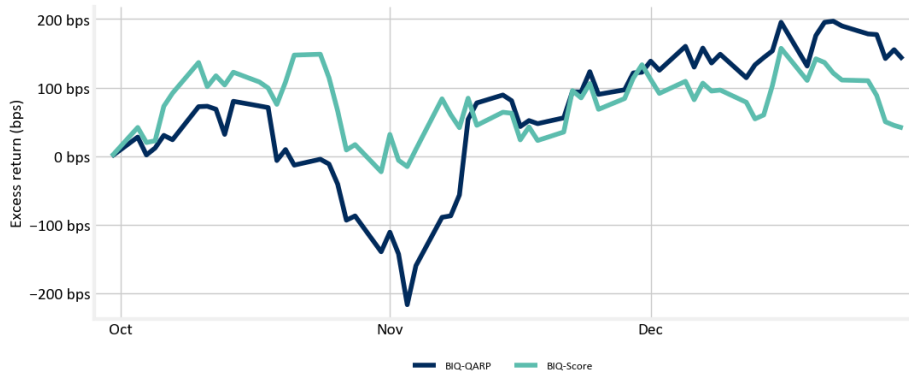
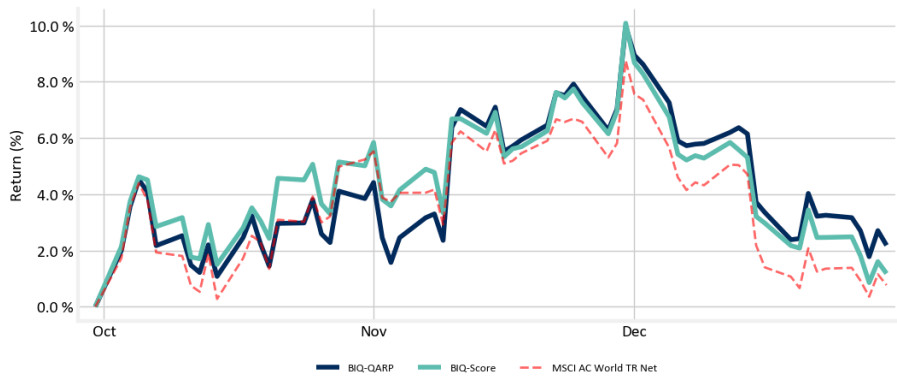


	Factor	Bm	Excess
BIQ-QARP	-7.08 %	-7.34 %	25 bps
BIQ-Score	-8.09 %	-7.34 %	-75 bps

Global: Multifactor (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

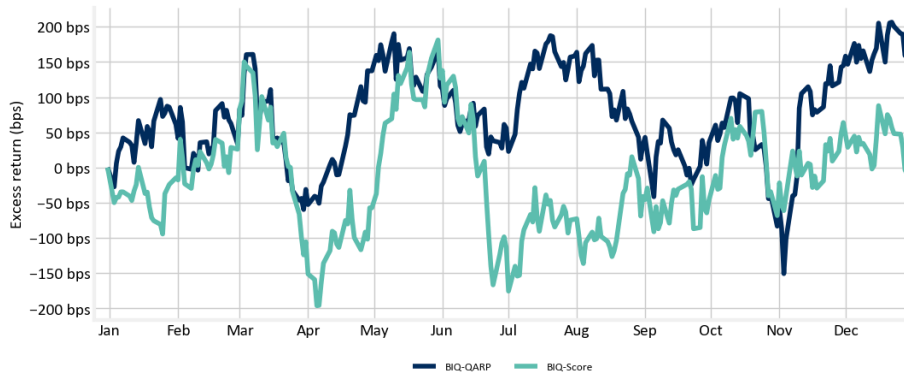
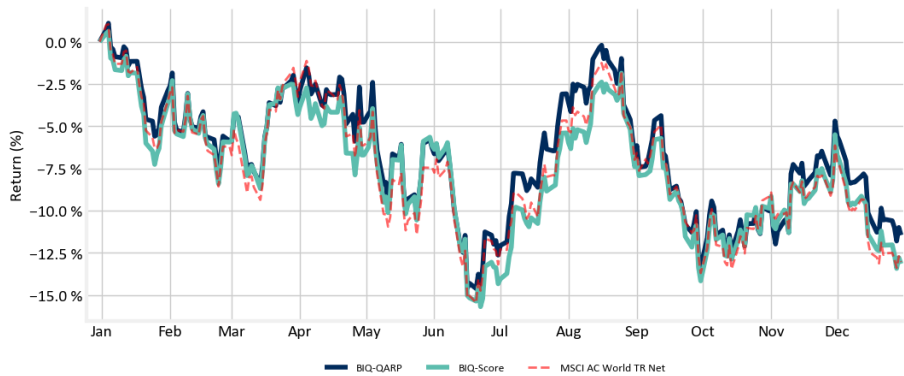


	Factor	Bm	Excess
BIQ-QARP	2.18 %	0.77 %	141 bps
BIQ-Score	1.18 %	0.77 %	41 bps

Global: Multifactor (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

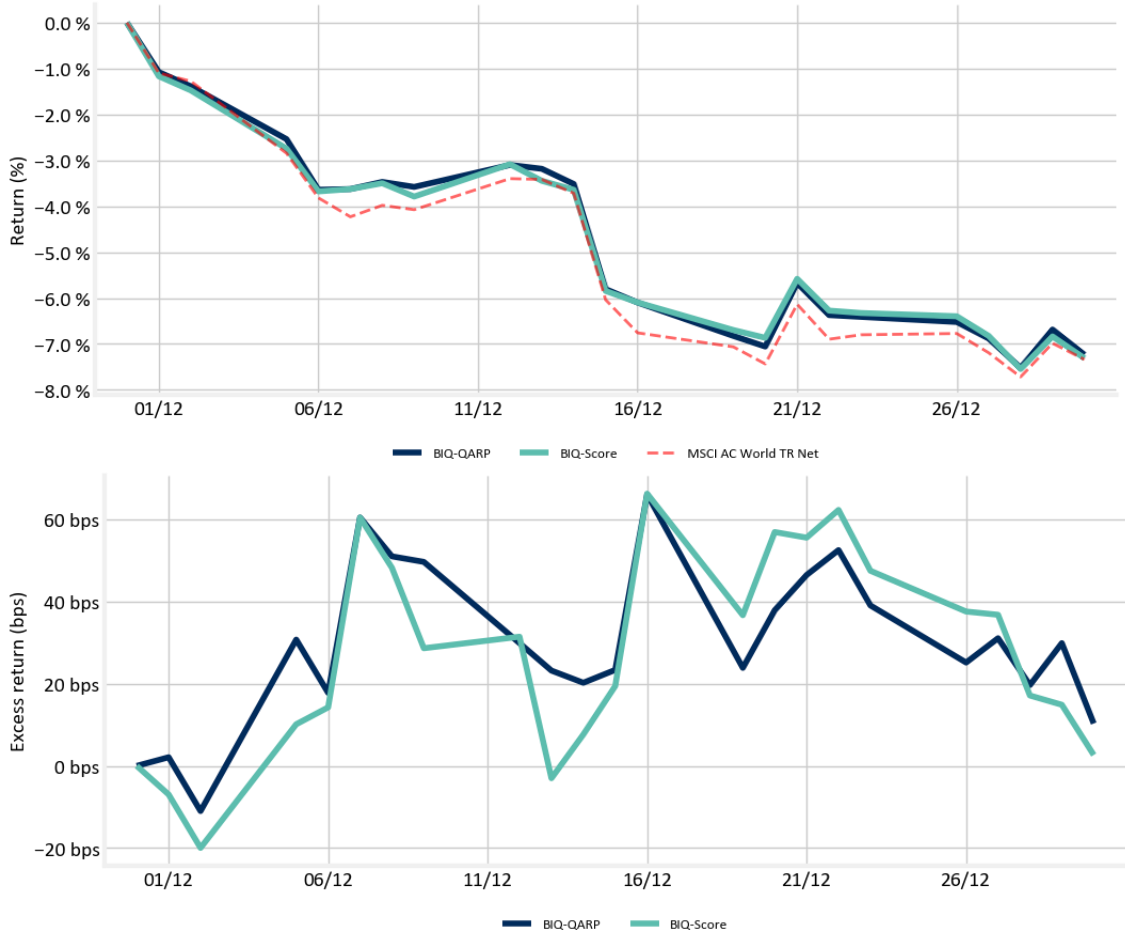


	Factor	Bm	Excess
BIQ-QARP	-11.44 %	-13.03 %	158 bps
BIQ-Score	-13.14 %	-13.03 %	-11 bps

Global: Multifactor (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



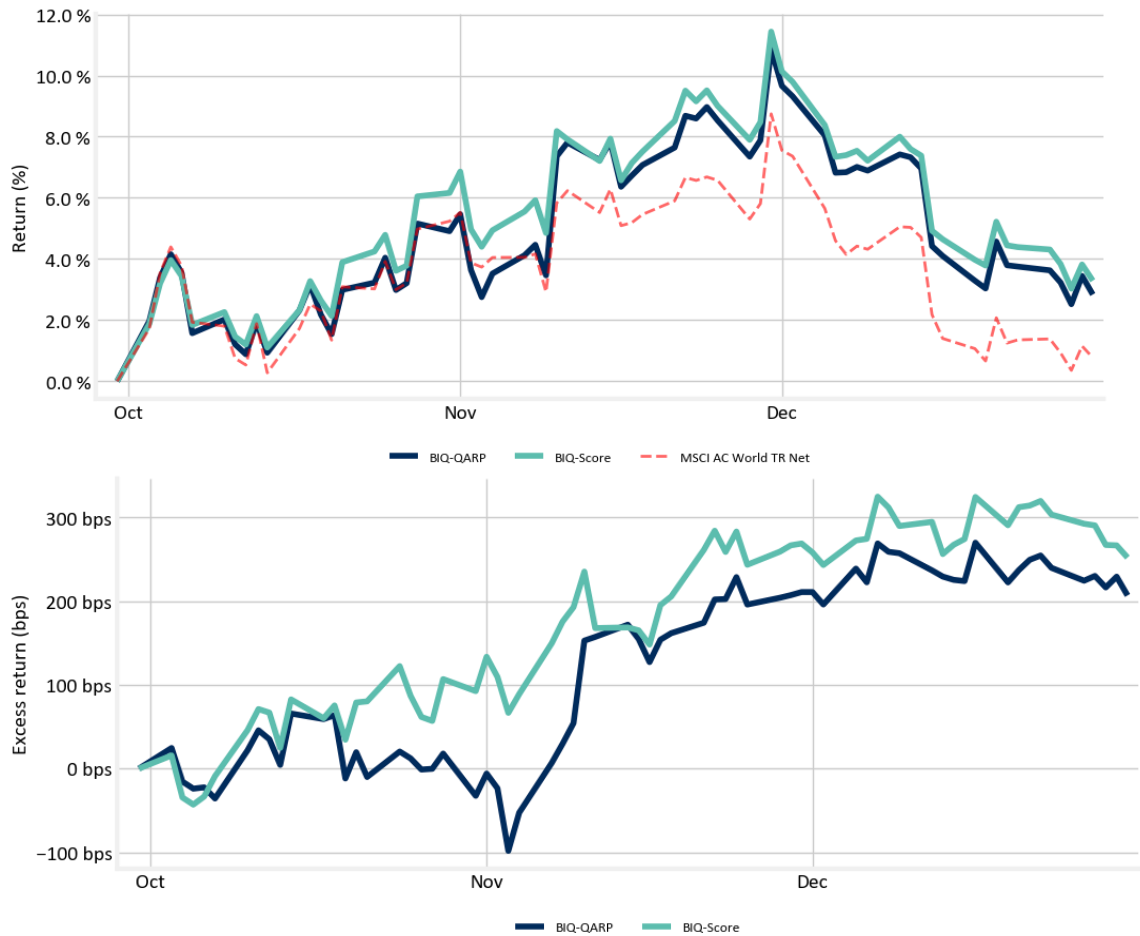
	Factor	Bm	Excess
BIQ-QARP	-7.23 %	-7.34 %	10 bps
BIQ-Score	-7.31 %	-7.34 %	3 bps



Global: Multifactor (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



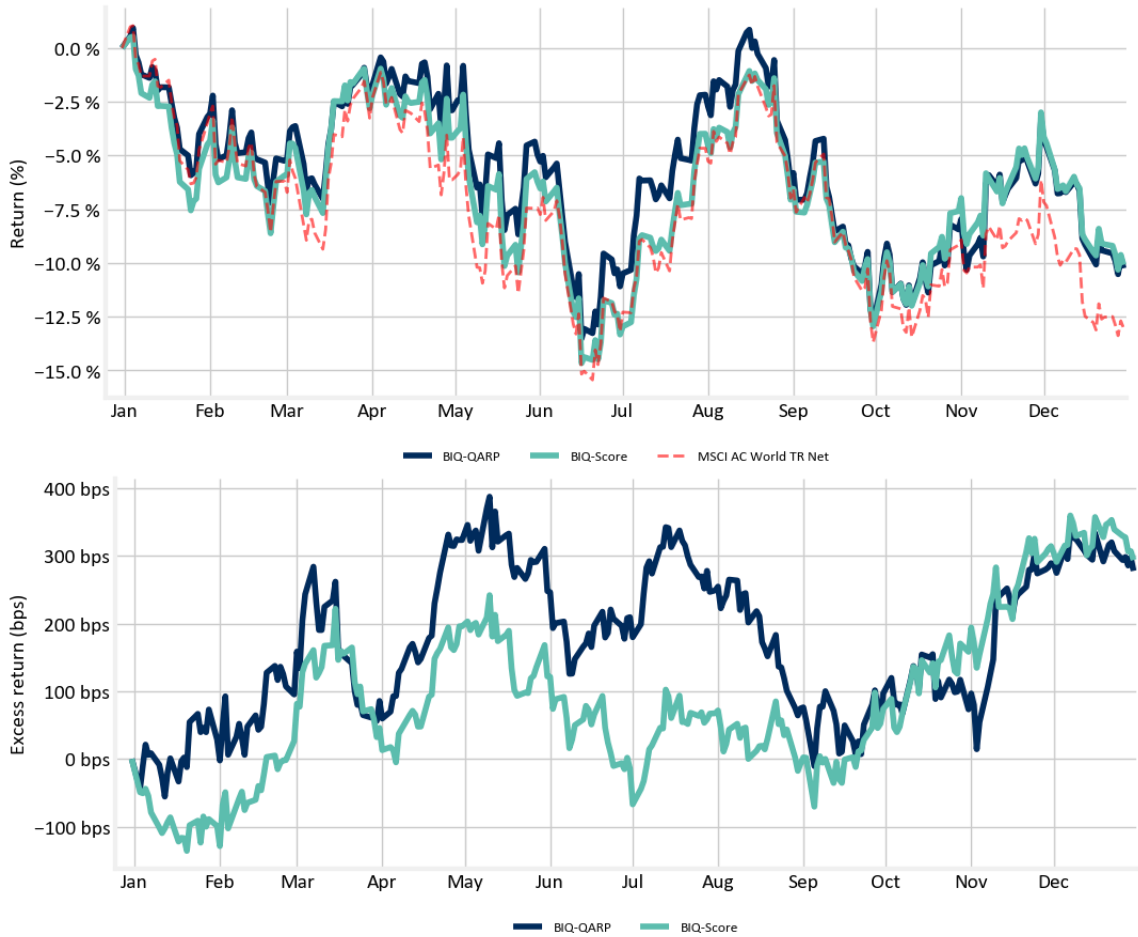
	Factor	Bm	Excess
BIQ-QARP	2.84 %	0.77 %	207 bps
BIQ-Score	3.29 %	0.77 %	252 bps



Global: Multifactor (sustainable)

Benchmark: MSCI AC World TR Net

Year-to-date



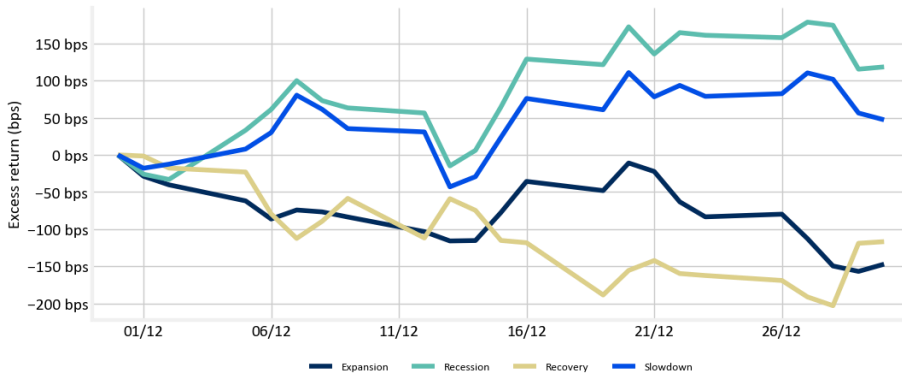
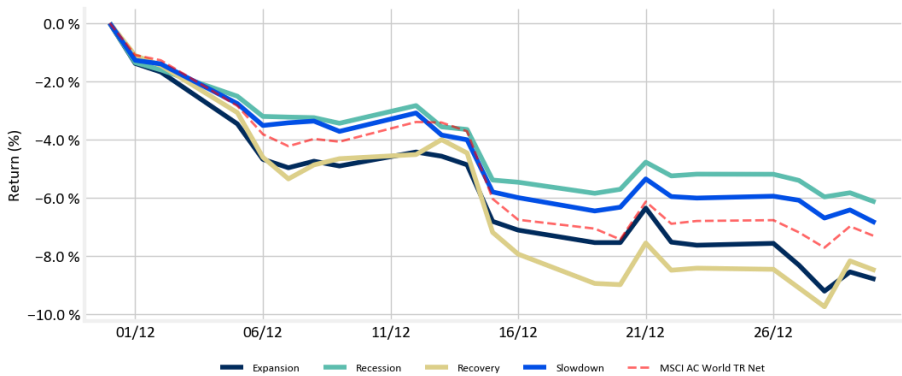
	Factor	Bm	Excess
BIQ-QARP	-10.25 %	-13.03 %	278 bps
BIQ-Score	-10.09 %	-13.03 %	294 bps



Global: Cycle model (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

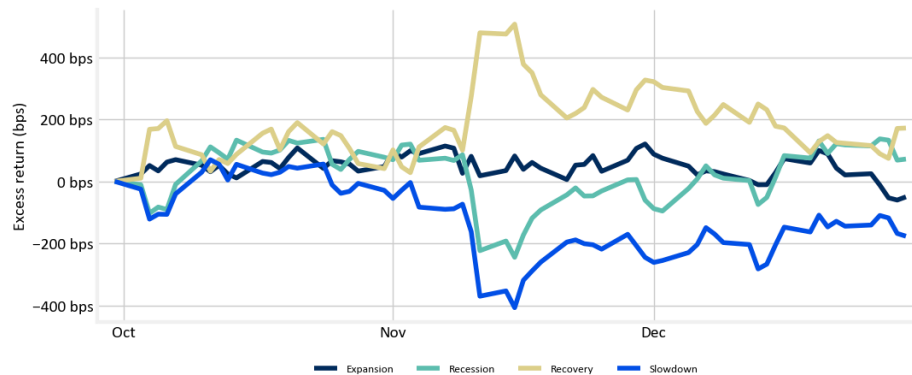
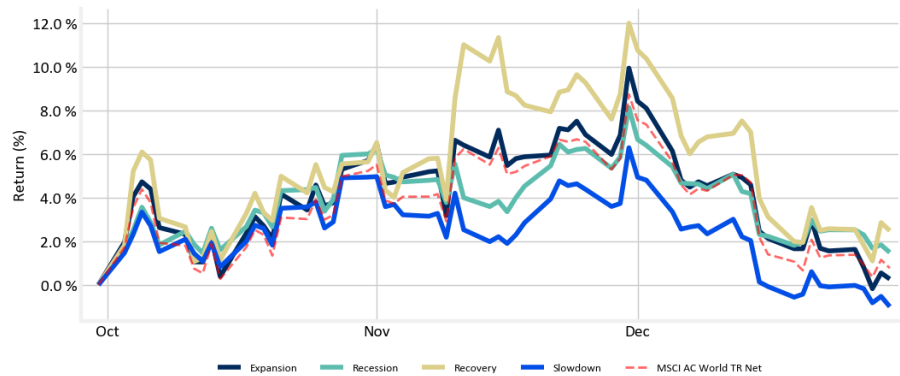


	Factor	Bm	Excess
Expansion	-8.81 %	-7.34 %	-147 bps
Recession	-6.15 %	-7.34 %	118 bps
Recovery	-8.50 %	-7.34 %	-117 bps
Slowdown	-6.87 %	-7.34 %	47 bps

Global: Cycle model (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

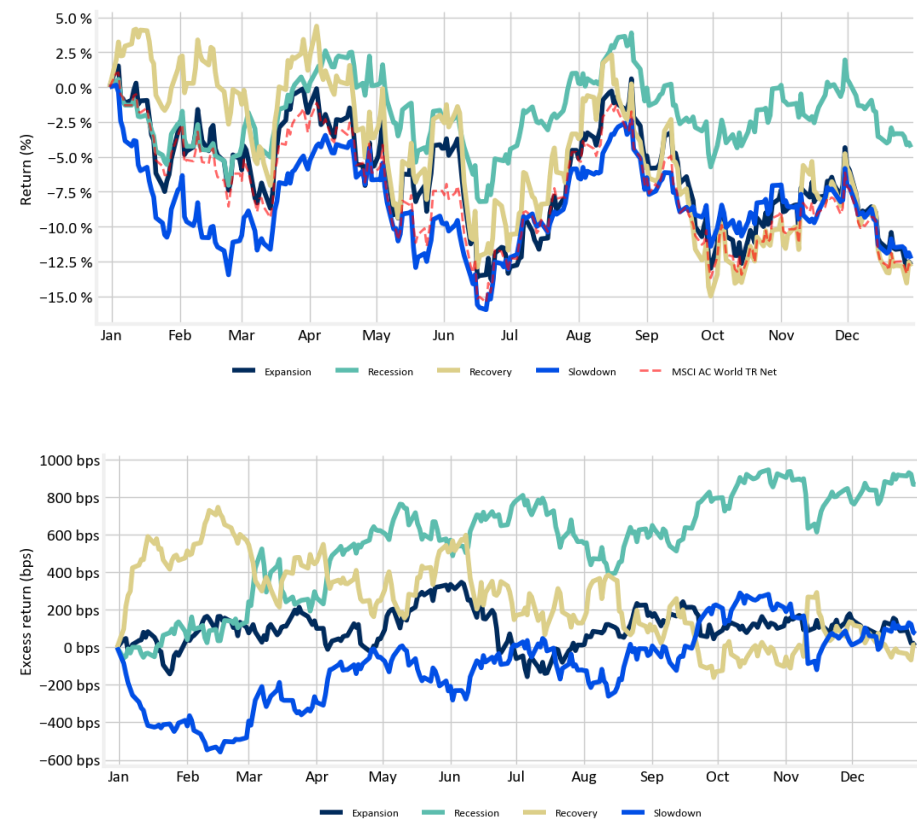


	Factor	Bm	Excess
Expansion	0.27 %	0.77 %	-50 bps
Recession	1.49 %	0.77 %	72 bps
Recovery	2.49 %	0.77 %	172 bps
Slowdown	-1.00 %	0.77 %	-177 bps

Global: Cycle model (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

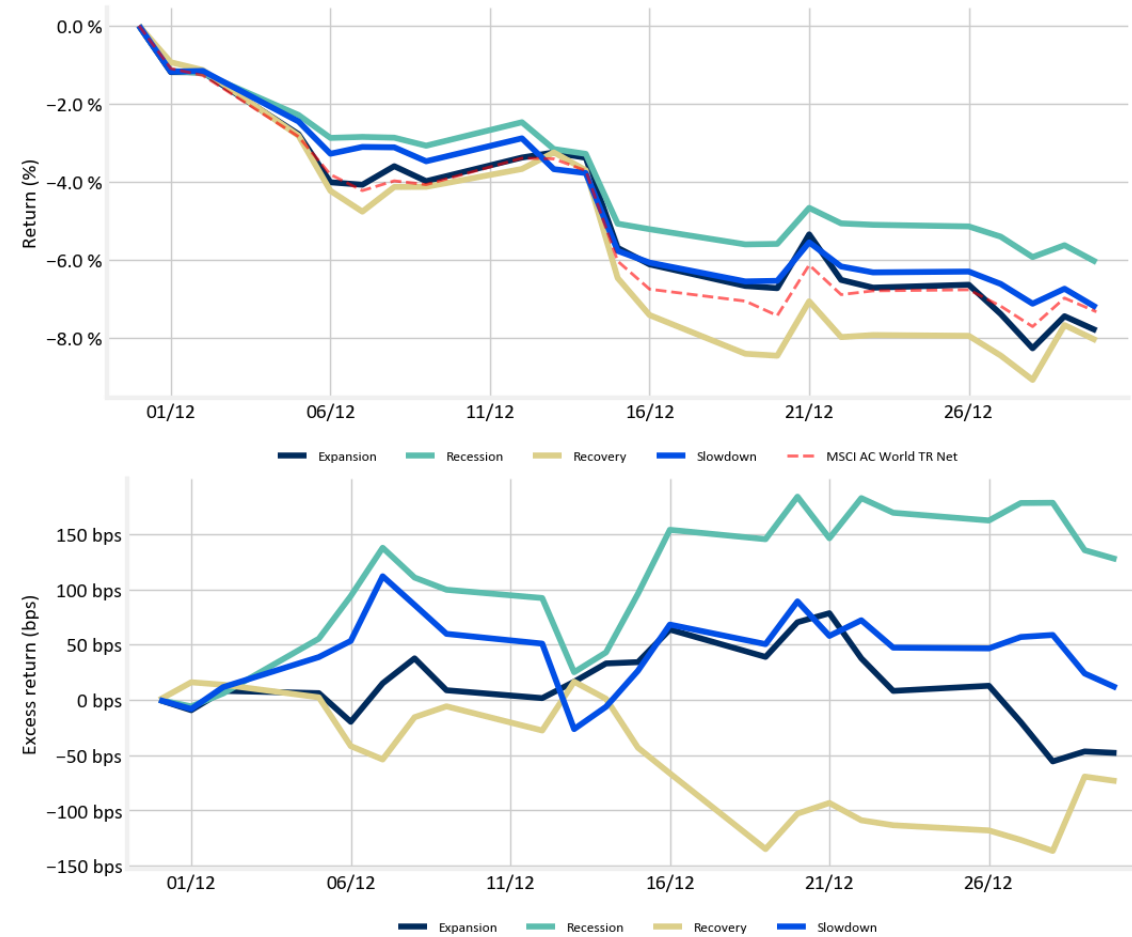


	Factor	Bm	Excess
Expansion	-12.76 %	-13.03 %	26 bps
Recession	-4.33 %	-13.03 %	870 bps
Recovery	-12.87 %	-13.03 %	15 bps
Slowdown	-12.30 %	-13.03 %	72 bps

Global: Cycle model (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



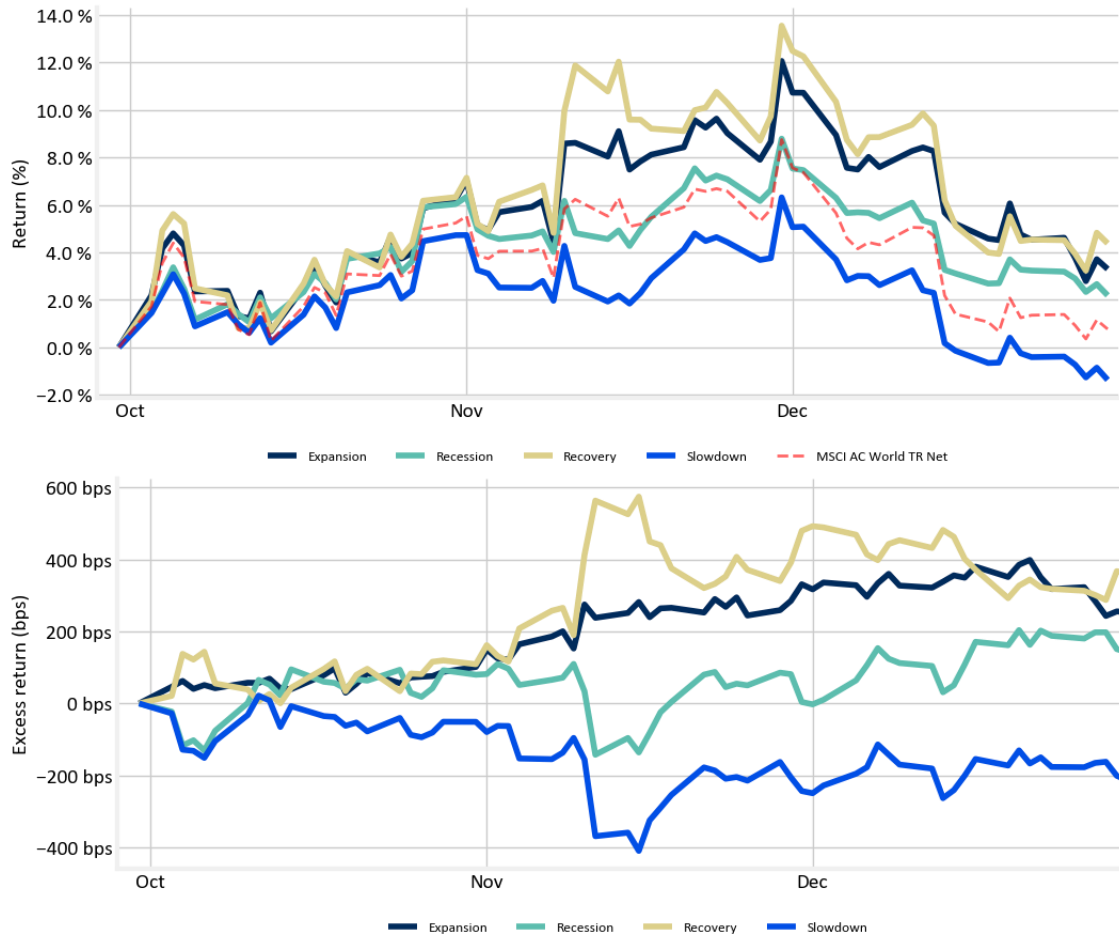
	Factor	Bm	Excess
Expansion	-7.82 %	-7.34 %	-48 bps
Recession	-6.07 %	-7.34 %	127 bps
Recovery	-8.07 %	-7.34 %	-73 bps
Slowdown	-7.23 %	-7.34 %	11 bps



Global: Cycle model (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



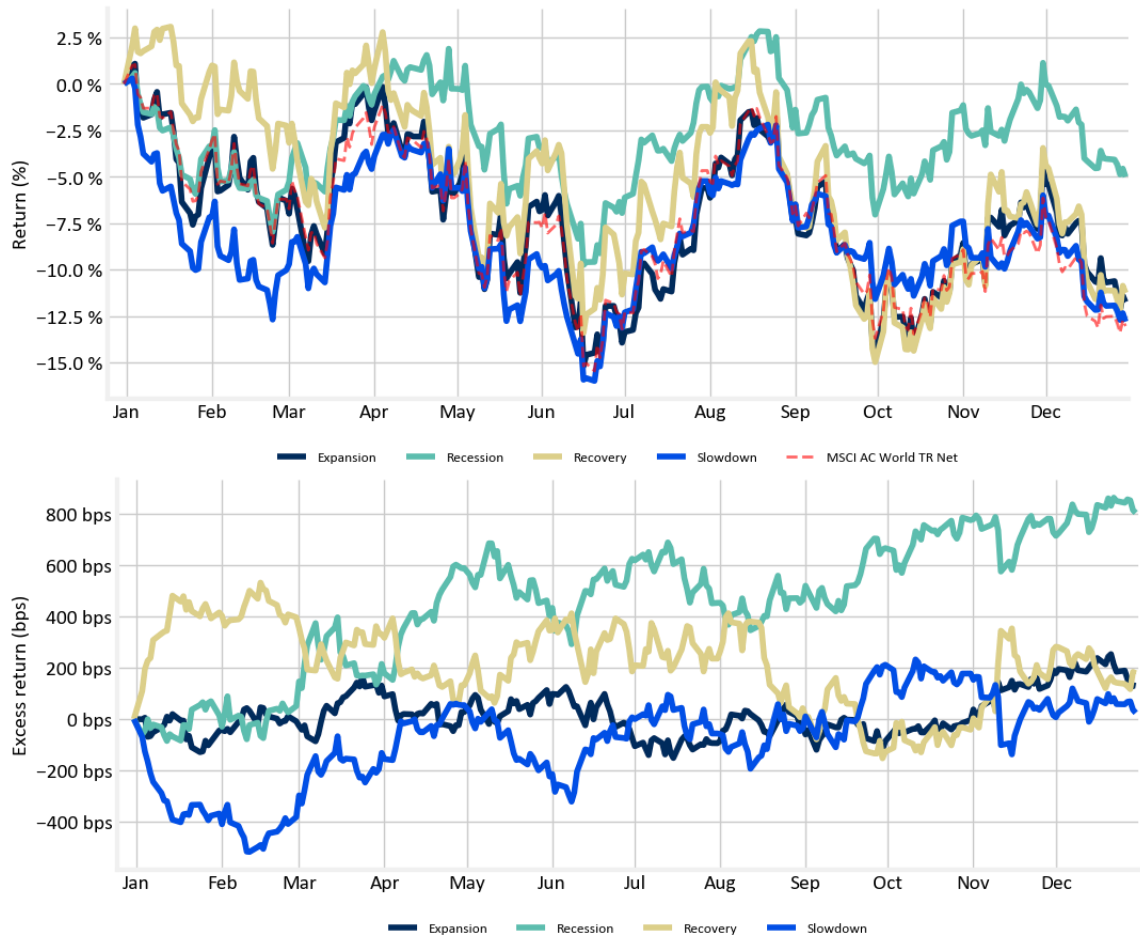
	Factor	Bm	Excess
Expansion	3.30 %	0.77 %	253 bps
Recession	2.19 %	0.77 %	142 bps
Recovery	4.38 %	0.77 %	361 bps
Slowdown	-1.37 %	0.77 %	-214 bps



Global: Cycle model (sustainable)

Benchmark: MSCI AC World TR Net

Year-to-date



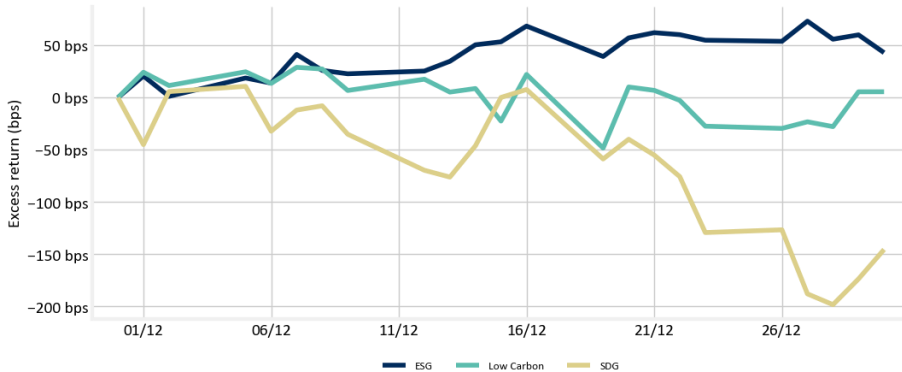
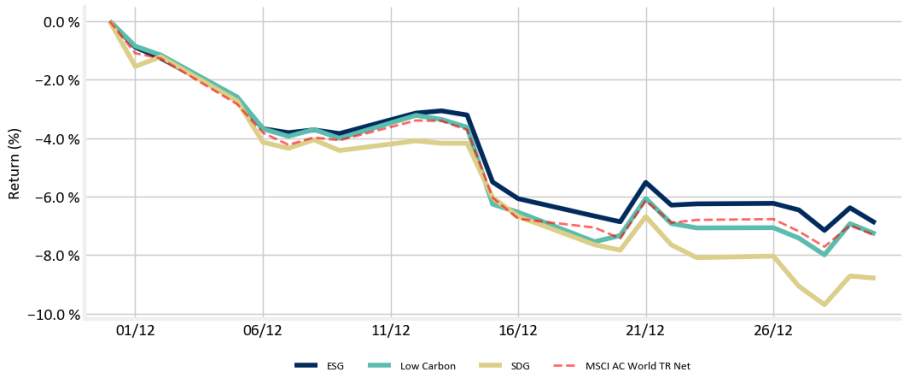
	Factor	Bm	Excess
Expansion	-11.73 %	-13.03 %	129 bps
Recession	-5.00 %	-13.03 %	803 bps
Recovery	-11.24 %	-13.03 %	178 bps
Slowdown	-12.79 %	-13.03 %	24 bps



Global: Sustainable Target (pure)

Benchmark: MSCI AC World TR Net

Month-to-date

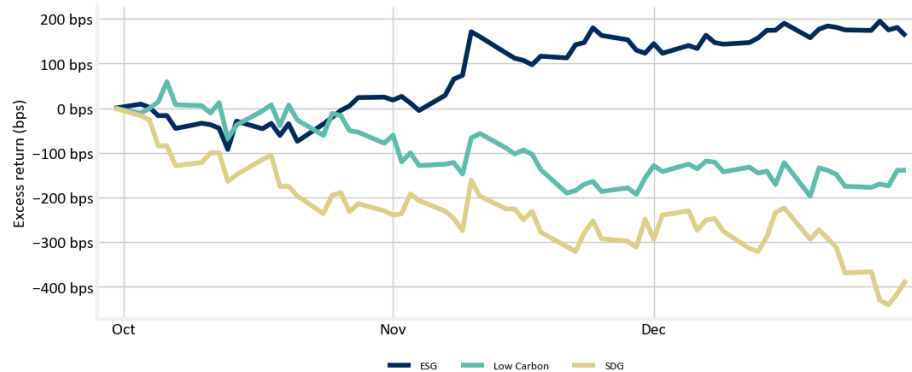
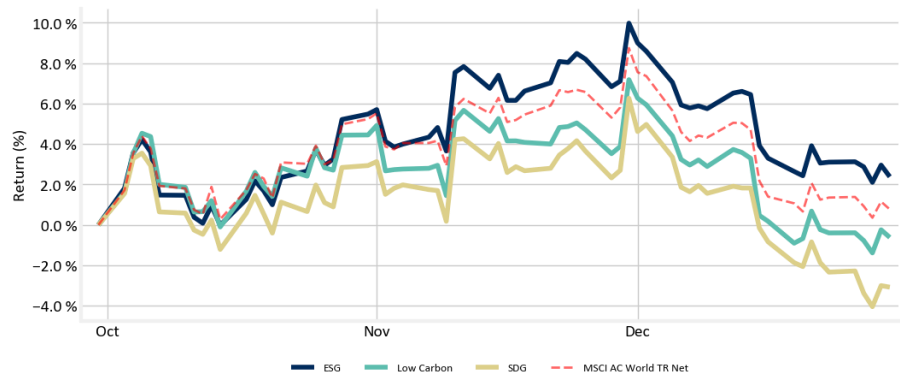


	Factor	Bm	Excess
ESG	-6.91 %	-7.34 %	43 bps
Low Carbon	-7.28 %	-7.34 %	6 bps
SDG	-8.79 %	-7.34 %	-145 bps

Global: Sustainable Target (pure)

Benchmark: MSCI AC World TR Net

Quarter-to-date

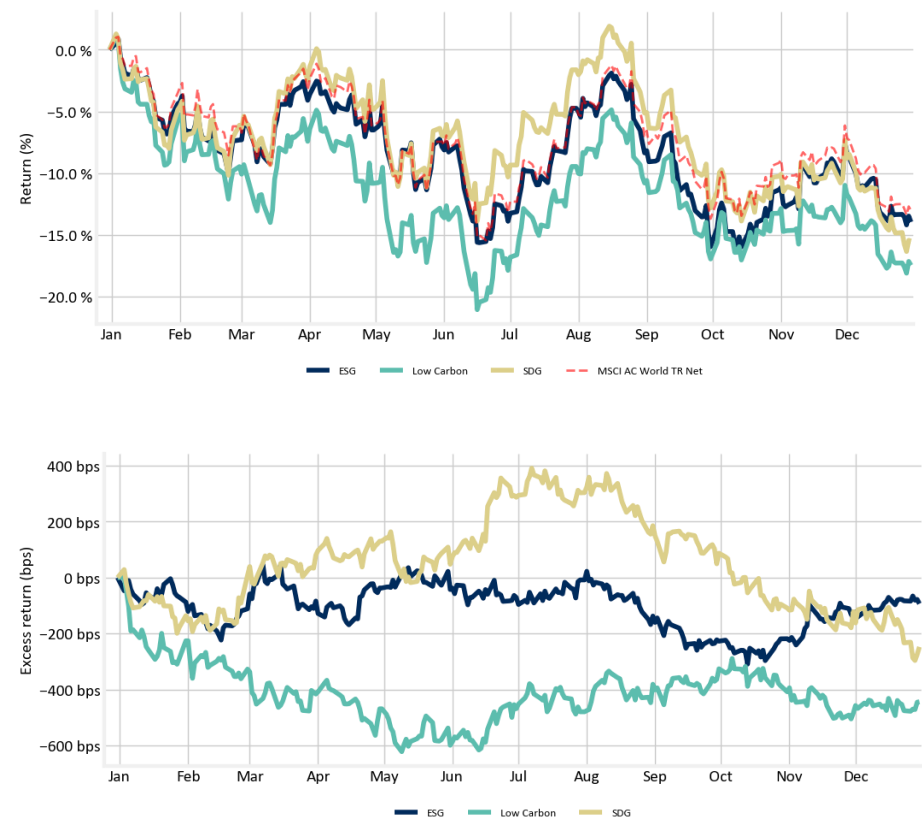


	Factor	Bm	Excess
ESG	2.38 %	0.77 %	161 bps
Low Carbon	-0.62 %	0.77 %	-139 bps
SDG	-3.08 %	0.77 %	-385 bps

Global: Sustainable Target (pure)

Benchmark: MSCI AC World TR Net

Year-to-date

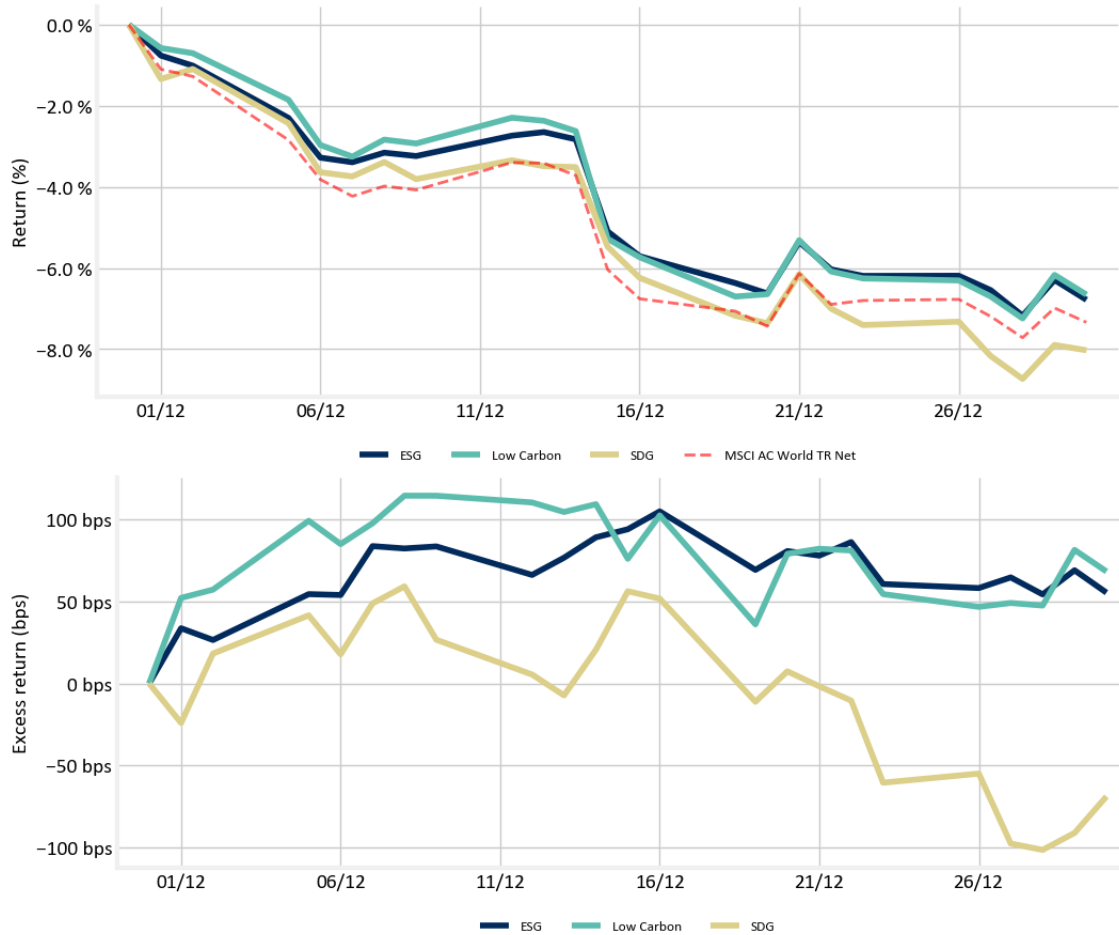


	Factor	Bm	Excess
ESG	-13.96 %	-13.03 %	-93 bps
Low Carbon	-17.46 %	-13.03 %	-444 bps
SDG	-15.50 %	-13.03 %	-248 bps

Global: Sustainable Target (sustainable)

Benchmark: MSCI AC World TR Net

Month-to-date



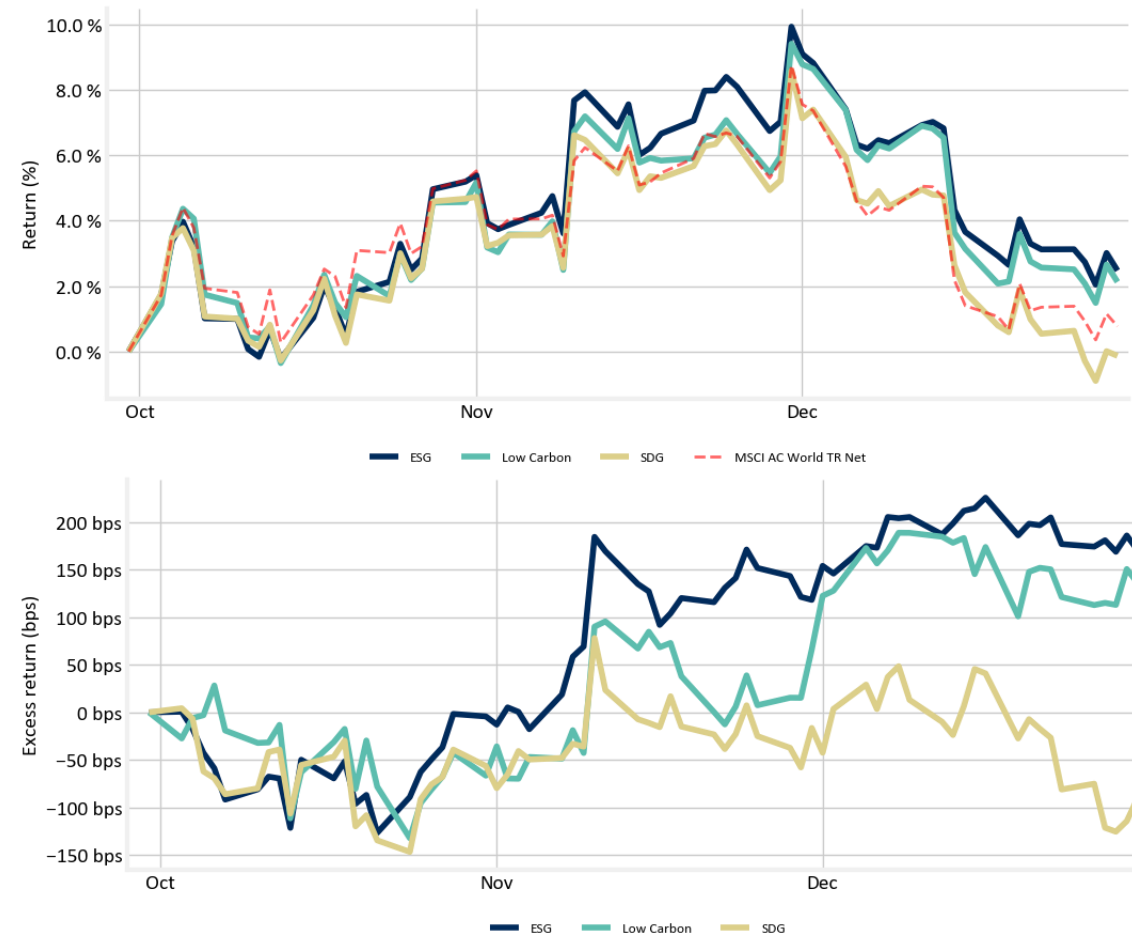
	Factor	Bm	Excess
ESG	-6.78 %	-7.34 %	55 bps
Low Carbon	-6.65 %	-7.34 %	68 bps
SDG	-8.03 %	-7.34 %	-69 bps



Global: Sustainable Target (sustainable)

Benchmark: MSCI AC World TR Net

Quarter-to-date



	Factor	Bm	Excess
ESG	2.47 %	0.77 %	170 bps
Low Carbon	2.13 %	0.77 %	136 bps
SDG	-0.13 %	0.77 %	-90 bps



Global: Sustainable Target (sustainable)

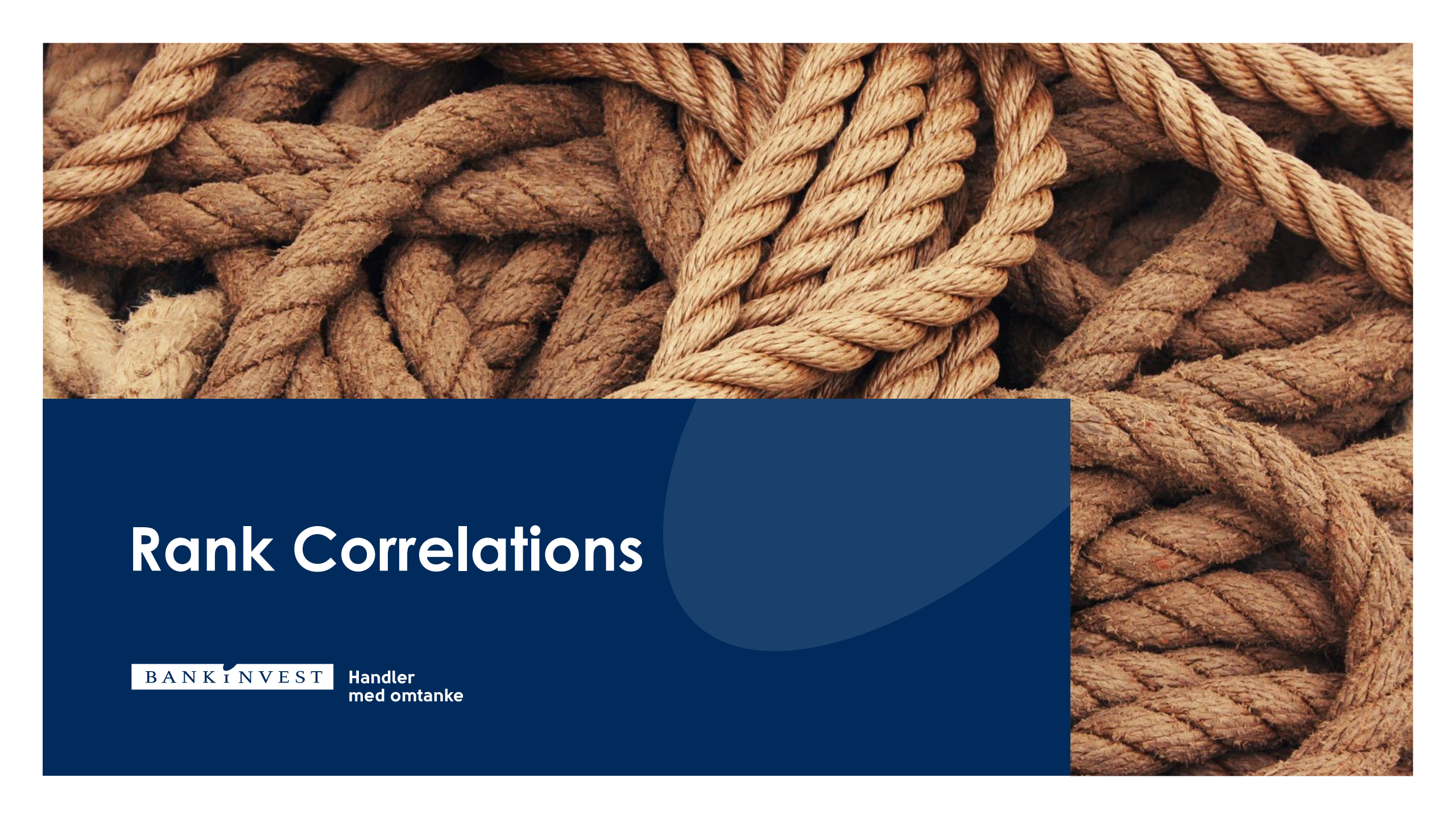
Benchmark: MSCI AC World TR Net

Year-to-date



	Factor	Bm	Excess
ESG	-15.15 %	-13.03 %	-213 bps
Low Carbon	-14.41 %	-13.03 %	-138 bps
SDG	-14.69 %	-13.03 %	-167 bps





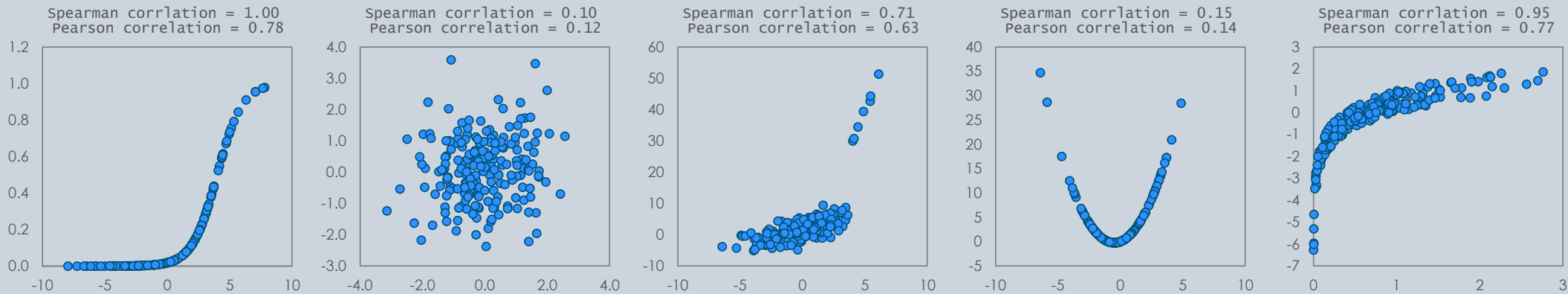
Rank Correlations

BANKINVEST

Handler
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Methodology

Rank correlation, or Spearman correlation, measures the rank relationship between two variables. Instead of assessing the linear relationship as a "normal" (Pearson) correlation coefficient, the Spearman correlation measures the ordinal relationship. A few examples:



When evaluating the rank correlation between two factors, we try to **quantify the level of co-variation and underlying commonalities**. At a given point in time all N stocks are ranked from 1 to N on factor loadings, and the correlation between rankings are calculated.

The **benefit** of using this kind of correlation measure is that we are capable of giving a current state of factor-correlation. We are not dependent on factor time series. On huge market rotations we do not need to wait until the new relationships materialize in the time series.

Global Factor Correlations

	Value BIQ	Momentum BIQ	Quality BIQ	Stability BIQ	Dividend Yield	Growth	Profitability Growth	High Volatility	Price Momentum	Classic Quality	Profitability	Sentiment	Deep Value	Safety	Leverage	Size: Large Cap	BIQ-Score	BIQ-QARP
Value BIQ	100	3	3	36	55	-12	22	-9	10	-2	-4	-4	80	-5	-19	6	58	47
Momentum BIQ	3	100	-7	12	-2	-6	3	-9	83	-9	-11	71	2	-8	-8	5	26	-9
Quality BIQ	3	-7	100	9	-3	27	53	-13	7	69	83	-21	-19	75	-11	10	59	82
Stability BIQ	36	12	9	100	54	-30	0	-80	18	15	-7	-1	31	22	3	13	15	25
Dividend Yield	55	-2	-3	54	100	-23	9	-34	5	-2	-17	-8	60	2	1	8	18	20
Growth	-12	-6	27	-30	-23	100	27	29	1	13	35	-9	-15	3	-6	4	34	11
Profitability Growth	22	3	53	0	9	27	100	6	19	16	43	-17	14	11	-11	7	65	36
High Volatility	-9	-9	-13	-80	-34	29	6	100	-11	-25	6	-3	-6	-35	-9	-12	2	-17
Price Momentum	10	83	7	18	5	1	19	-11	100	-4	3	24	8	-4	-9	13	35	2
Classic Quality	-2	-9	69	15	-2	13	16	-25	-4	100	53	-10	-15	73	-38	8	30	63
Profitability	-4	-11	83	-7	-17	35	43	6	3	53	100	-22	-29	43	-7	9	60	68
Sentiment	-4	71	-21	-1	-8	-9	-17	-3	24	-10	-22	100	-5	-11	-4	-7	5	-19
Deep Value	80	2	-19	31	60	-15	14	-6	8	-15	-29	-5	100	-19	-22	-1	30	16
Safety	-5	-8	75	22	2	3	11	-35	-4	73	43	-11	-19	100	-8	5	19	70
Leverage	-19	-8	-11	3	1	-6	-11	-9	-9	-38	-7	-4	-22	-8	100	-9	-22	-18
Size: Large Cap	6	5	10	13	8	4	7	-12	13	8	9	-7	-1	5	-9	100	14	10
BIQ-Score	58	26	59	15	18	34	65	2	35	30	60	5	30	19	-22	14	100	70
BIQ-QARP	47	-9	82	25	20	11	36	-17	2	63	68	-19	16	70	-18	10	70	100

Rankcorrelation matrix

A snapshot of the current factor rank correlations.

On the following slide is the changes in one month and three months horizon shown to illustrate the changes in the relationship between the factors.

Changes in Global factor correlations

1-month changes

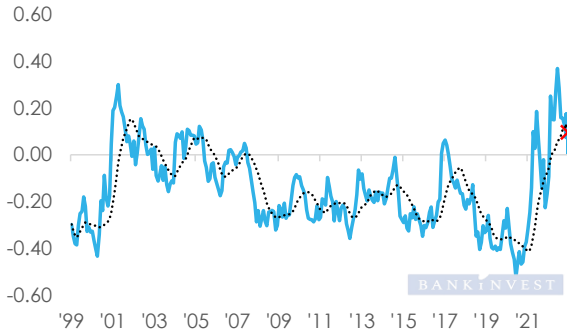
	Value BIQ	Momentum BIQ	Quality BIQ	Stability BIQ	Dividend Yield	Growth	Profitability Growth	High Volatility	Price Momentum	Classic Quality	Profitability	Sentiment	Deep Value	Safety	Leverage	Size: Large Cap	BIQ-Score	BIQ-QARP
Value BIQ		-6	0	0	0	-1	0	1	-4	0	2	-5	-1	0	0	0	0	1
Momentum BIQ	-6		-4	-6	-6	-2	-3	3	-3	-4	-3	-4	-6	-2	3	1	-9	-5
Quality BIQ	0	-4		0	0	0	1	0	3	-2	2	-10	-1	-2	3	-1	2	-1
Stability BIQ	0	-6	0		0	-1	1	1	-11	1	1	2	-1	1	0	2	-3	-1
Dividend Yield	0	-6	0	0		-1	1	1	-2	0	1	-5	-1	0	1	3	-1	1
Growth	-1	-2	0	-1	-1		-2	0	4	-1	-1	-4	-1	-1	3	-3	0	-1
Profitability Growth	0	-3	1	1	1	-2		-1	7	-1	0	-12	0	0	1	-1	1	0
High Volatility	1	3	0	1	1	0	-1		7	-1	-2	-3	2	-1	-1	-1	2	1
Price Momentum	-4	-3	3	-11	-2	4	7	7		-1	4	-10	-4	1	2	6	-1	0
Classic Quality	0	-4	-2	1	0	-1	-1	-1	-1		-1	-2	0	0	1	0	-1	-1
Profitability	2	-3	2	1	1	-1	0	-2	4	-1		-8	0	0	1	-1	3	2
Sentiment	-5	-4	-10	2	-5	-4	-12	-3	-10	-2	-8	0	-4	-3	1	-5	-14	-7
Deep Value	-1	-6	-1	-1	-1	-1	0	2	-4	0	0	-4		-1	0	1	-2	0
Safety	0	-2	-2	1	0	-1	0	-1	1	0	0	-3	-1		1	0	0	-2
Leverage	0	3	3	0	1	3	1	-1	2	1	1	1	0	1		1	2	1
Size: Large Cap	0	1	-1	2	3	-3	-1	-1	6	0	-1	-5	1	0	1		-1	-1
BIQ-Score	0	-9	2	-3	-1	0	1	2	-1	-1	3	-14	-2	0	2	-1		2
BIQ-QARP	1	-5	-1	-1	1	-1	0	1	0	-1	2	-7	0	-2	1	-1	2	

3-month changes

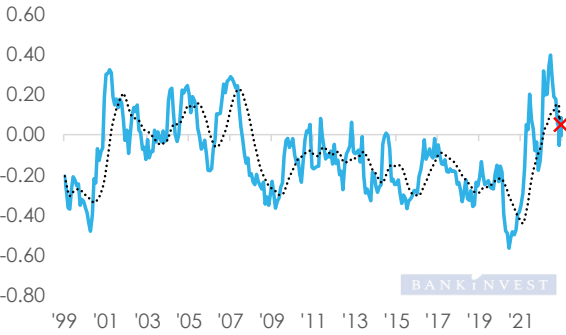
	Value BIQ	Momentum BIQ	Quality BIQ	Stability BIQ	Dividend Yield	Growth	Profitability Growth	High Volatility	Price Momentum	Classic Quality	Profitability	Sentiment	Deep Value	Safety	Leverage	Size: Large Cap	BIQ-Score	BIQ-QARP
Value BIQ		-2	-3	1	1	2	-6	0	-6	0	-3	6	-1	-1	3	0	-1	-2
Momentum BIQ	-2		-6	-8	-7	-5	-5	8	-6	-5	-3	-2	1	-4	-9	-2	-5	-6
Quality BIQ	-3	-6		-2	-4	-3	-1	-1	5	1	1	-16	-3	1	1	-1	-2	0
Stability BIQ	1	-8	-2		-4	-2	-5	0	-14	0	-1	4	2	0	-1	0	-4	-1
Dividend Yield	1	-7	-4	-4		0	-7	2	-13	-1	-4	6	2	-1	2	1	-4	-2
Growth	2	-5	-3	-2	0		-1	1	3	-3	0	-12	1	-4	4	-1	1	-2
Profitability Growth	-6	-5	-1	-5	-7	-1		1	9	0	-1	-20	-6	-3	2	0	-3	-5
High Volatility	0	8	-1	0	2	1	1		14	1	1	-4	-2	-1	0	2	4	0
Price Momentum	-6	-6	5	-14	-13	3	9	14		-3	8	-14	-3	-2	-9	6	2	-2
Classic Quality	0	-5	1	0	-1	-3	0	1	-3	0	0	-4	1	1	0	-3	-1	2
Profitability	-3	-3	1	-1	-4	0	-1	1	8	0		-15	-3	2	0	-2	0	0
Sentiment	6	-2	-16	4	6	-12	-20	-4	-14	-4	-15		8	-4	-5	-11	-11	-8
Deep Value	-1	1	-3	2	2	1	-6	-2	-3	1	-3	8		-1	1	2	-2	-3
Safety	-1	-4	1	0	-1	-4	-3	-1	-2	1	2	-4	-1		0	1	-3	1
Leverage	3	-9	1	-1	2	4	2	0	-9	0	0	-5	1	0		2	-1	1
Size: Large Cap	0	-2	-1	0	1	-1	0	2	6	-3	-2	-11	2	1	2		-1	0
BIQ-Score	-1	-5	-2	-4	-4	1	-3	4	2	-1	0	-11	-2	-3	-1	-1		-2
BIQ-QARP	-2	-6	0	-1	-2	-2	-5	0	-2	2	0	-8	-3	1	1	0	-2	

Selected correlation charts in Global

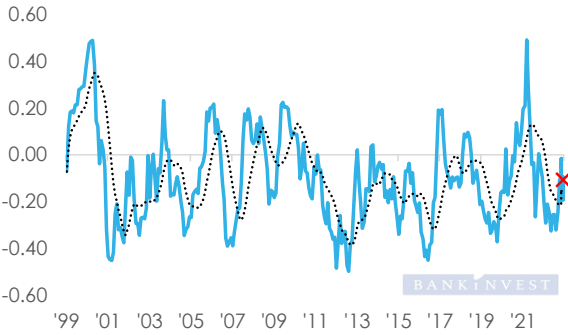
Price Momentum vs. Value BIQ
Rank Correlation in Global



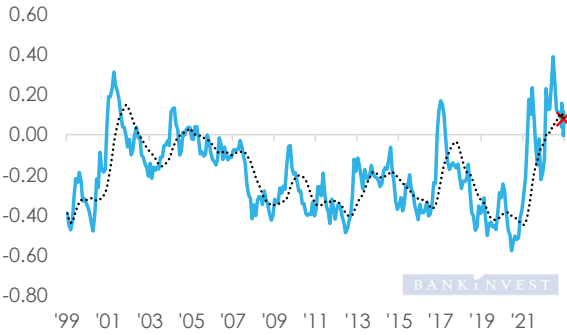
Price Momentum vs. Dividend Yield
Rank Correlation in Global



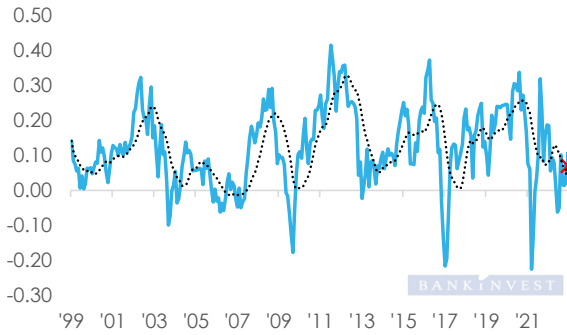
Price Momentum vs. High Volatility
Rank Correlation in Global



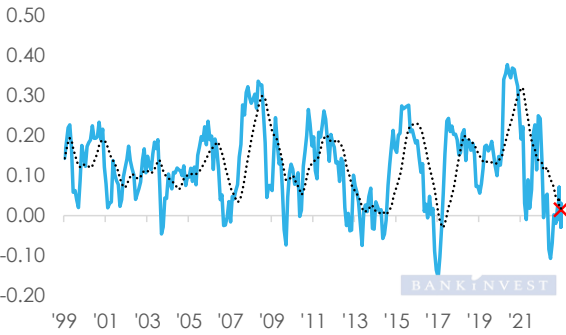
Price Momentum vs. Deep Value
Rank Correlation in Global



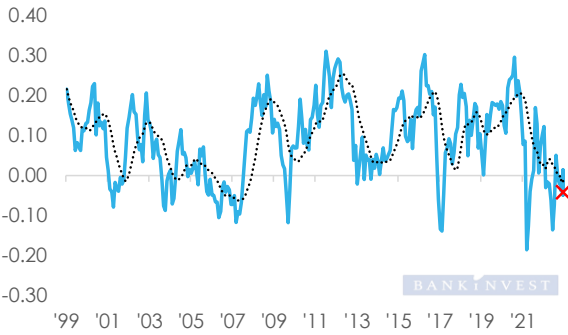
Price Momentum vs. Quality BIQ
Rank Correlation in Global



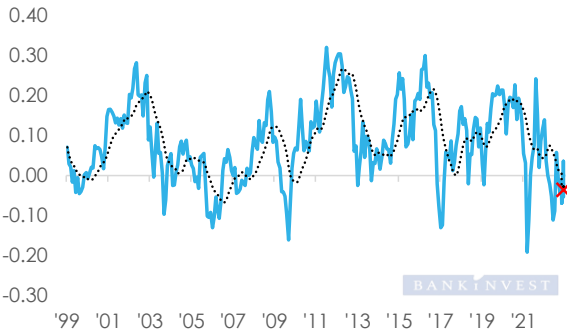
Price Momentum vs. Growth
Rank Correlation in Global



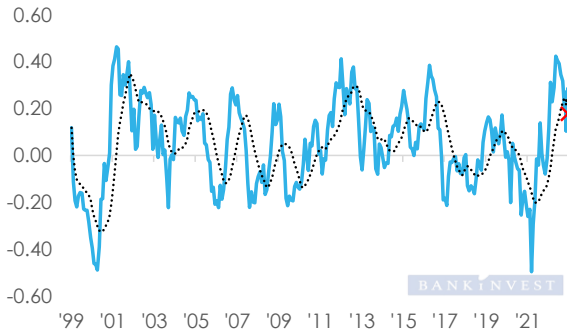
Price Momentum vs. Classic Quality
Rank Correlation in Global



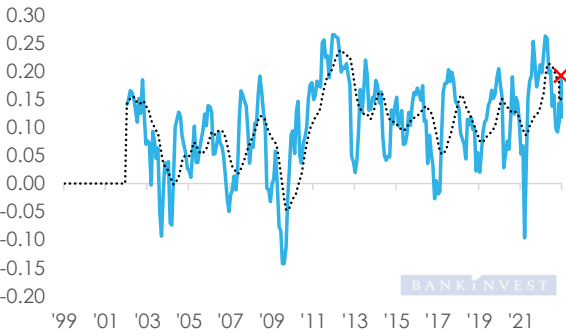
Price Momentum vs. Safety
Rank Correlation in Global



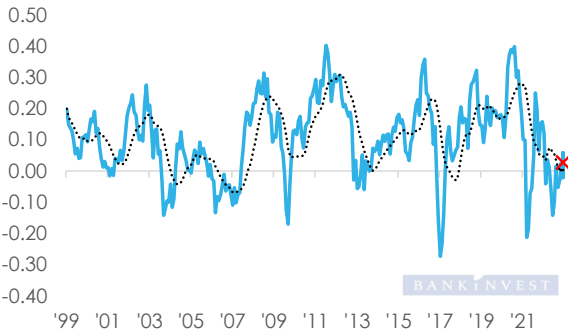
Price Momentum vs. Stability BIQ
Rank Correlation in Global



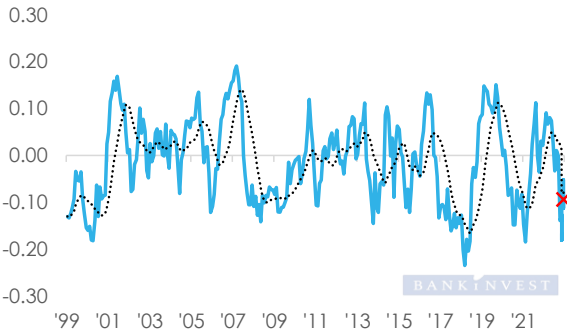
Price Momentum vs. Profitability Growth
Rank Correlation in Global



Price Momentum vs. Profitability
Rank Correlation in Global

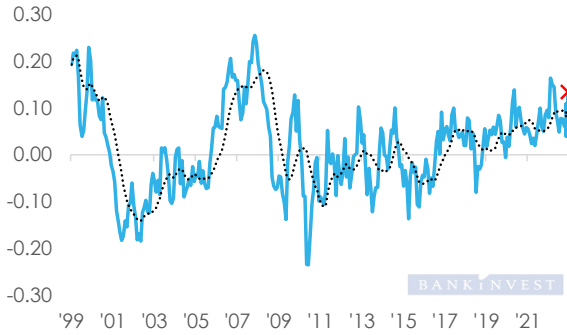


Price Momentum vs. Leverage
Rank Correlation in Global

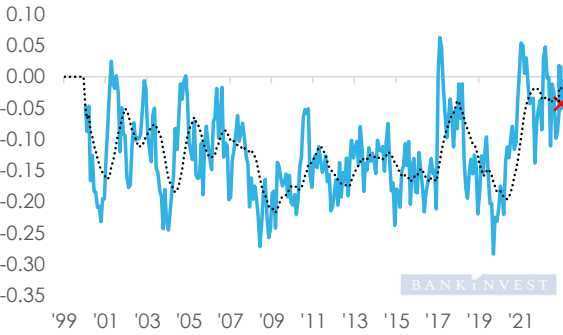


Selected correlation charts in Global

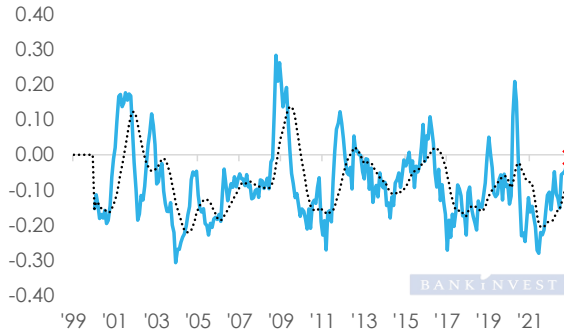
Price Momentum vs. Size: Large Cap
Rank Correlation in Global



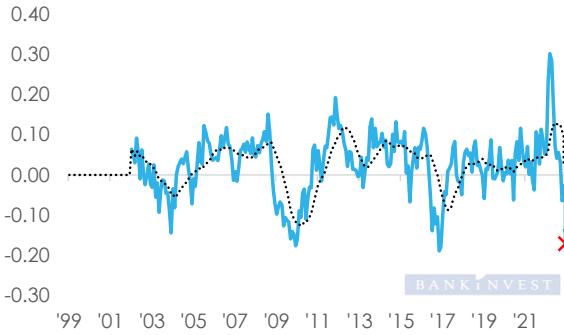
Sentiment vs. Value BIQ
Rank Correlation in Global



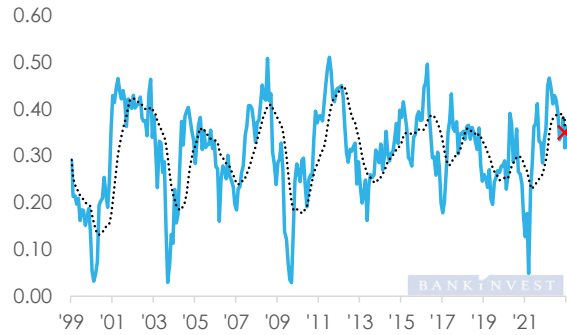
Sentiment vs. Stability BIQ
Rank Correlation in Global



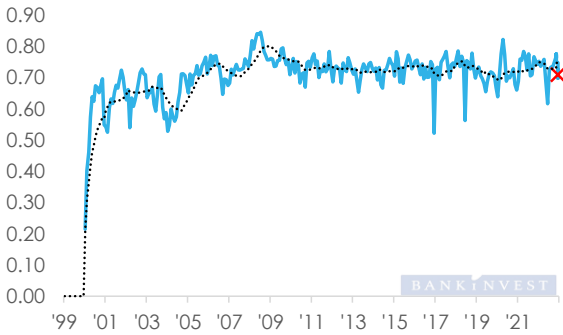
Sentiment vs. Profitability Growth
Rank Correlation in Global



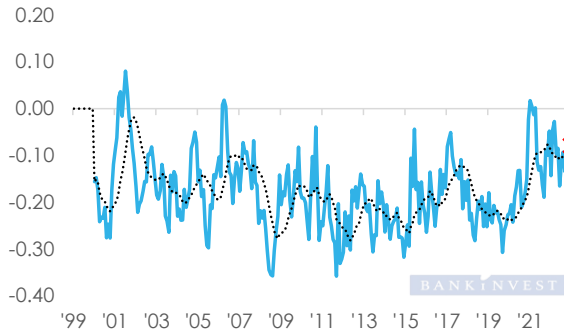
Price Momentum vs. BIQ-Score
Rank Correlation in Global



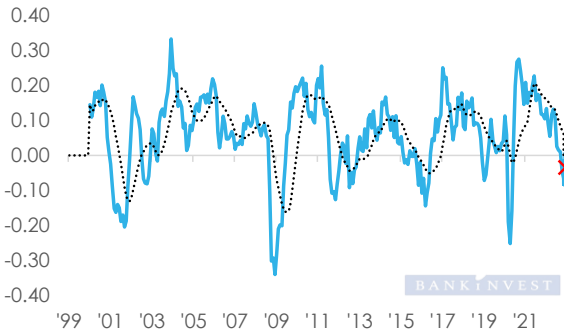
Sentiment vs. Momentum BIQ
Rank Correlation in Global



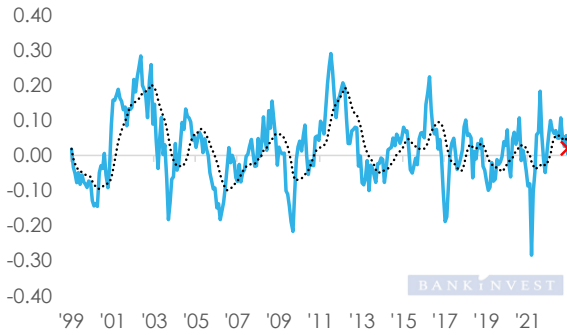
Sentiment vs. Dividend Yield
Rank Correlation in Global



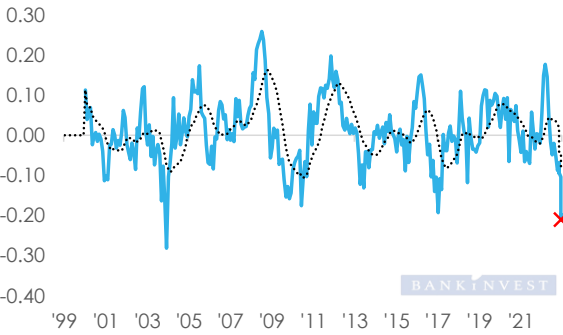
Sentiment vs. High Volatility
Rank Correlation in Global



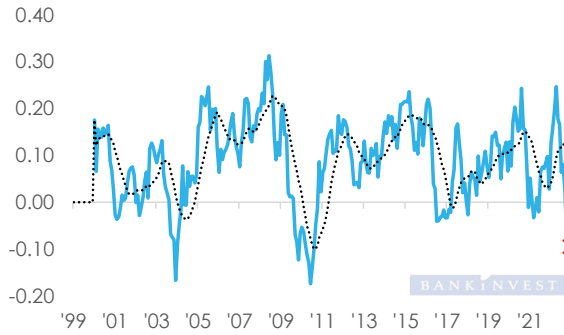
Price Momentum vs. BIQ-QARP
Rank Correlation in Global



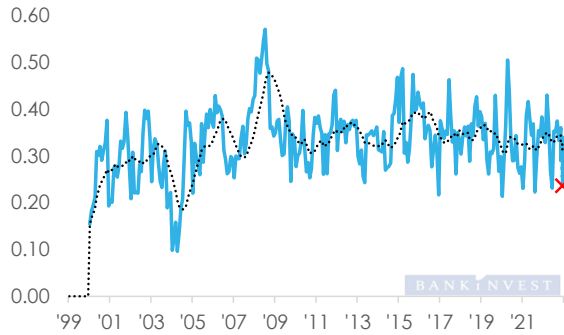
Sentiment vs. Quality BIQ
Rank Correlation in Global



Sentiment vs. Growth
Rank Correlation in Global

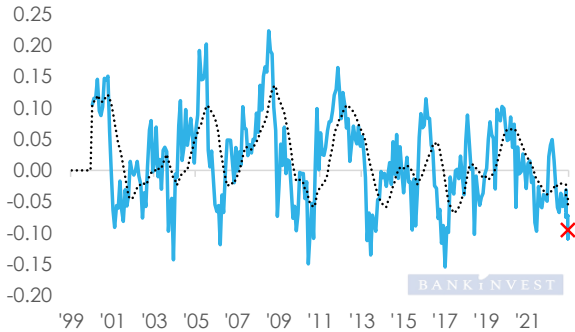


Sentiment vs. Price Momentum
Rank Correlation in Global

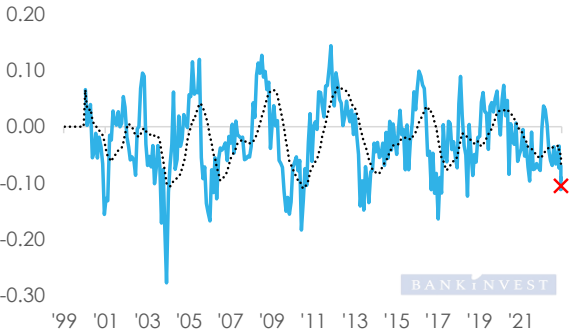


Selected correlation charts in Global

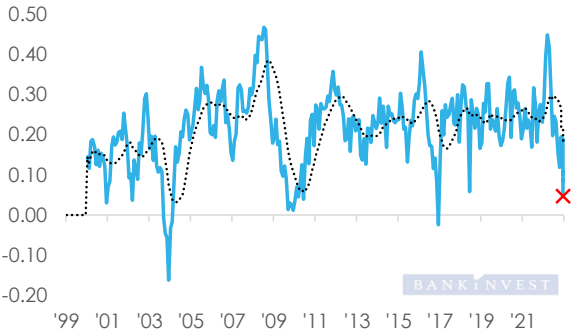
Sentiment vs. Classic Quality
Rank Correlation in Global



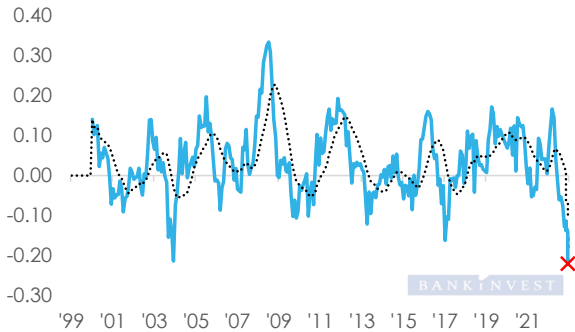
Sentiment vs. Safety
Rank Correlation in Global



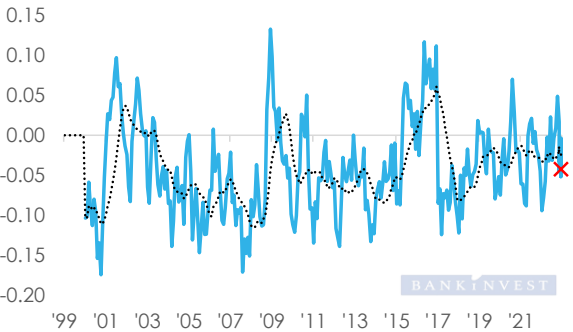
Sentiment vs. BIQ-Score
Rank Correlation in Global



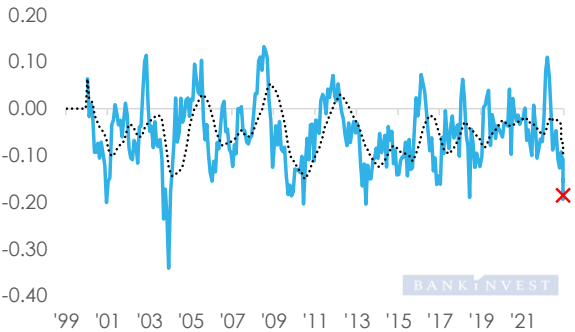
Sentiment vs. Profitability
Rank Correlation in Global



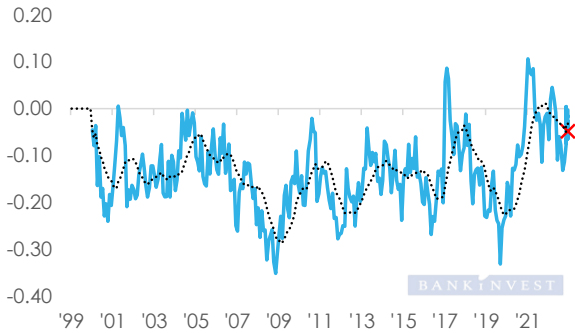
Sentiment vs. Leverage
Rank Correlation in Global



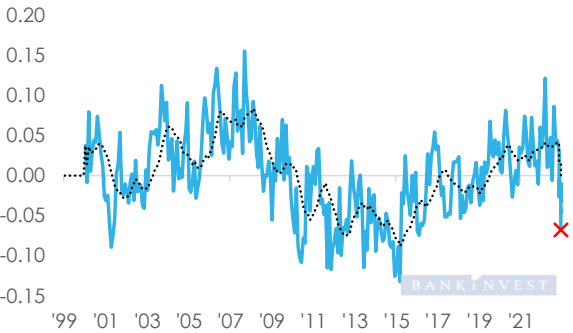
Sentiment vs. BIQ-QARP
Rank Correlation in Global



Sentiment vs. Deep Value
Rank Correlation in Global



Sentiment vs. Size: Large Cap
Rank Correlation in Global





Valuation charts

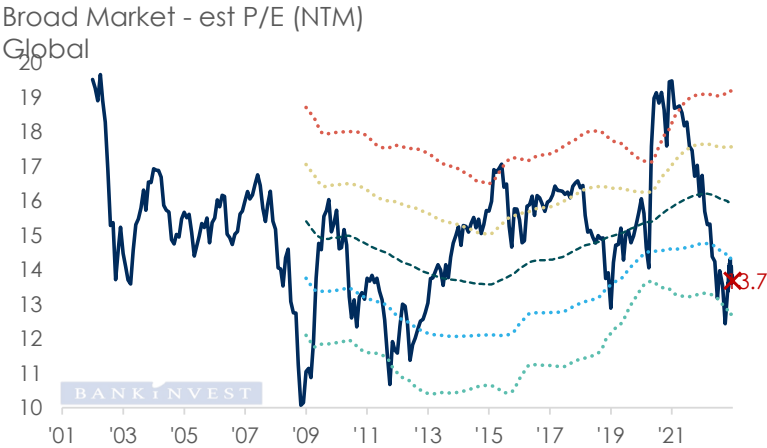
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Methodology

- To express the valuation level we use blended **12 month forward Price/Earnings** (FPE NTM).
- The aggregation method used is **weighted harmonic mean**, which is preferred when dealing with averages of rates. This method mitigates the impact of outliers.
- FPE values are **winsorized at 3 and 100**.
- Negative values are set to the largest value.
- Missing values are replaced by the associated regional-industry average.
- Factors are formed daily by sorting stocks on the factor score and **equal weighting the top quintile**.
- Confidence intervals are calculated with rolling 7 years monthly data

Overall market valuation

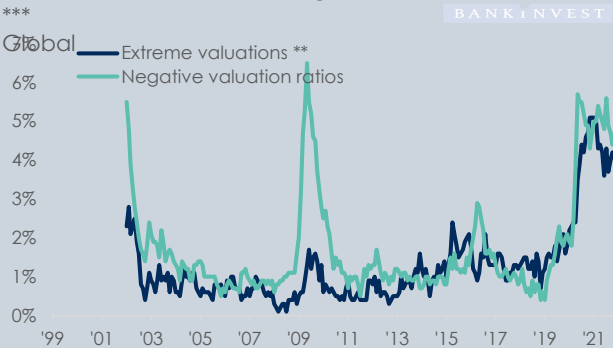


Broad Market - Valuation Dispersion *



* Dispersion measures the mean absolute deviation from the median. In other word a measure of the difference between the most expensive and the least expensive stocks in the selected universe.

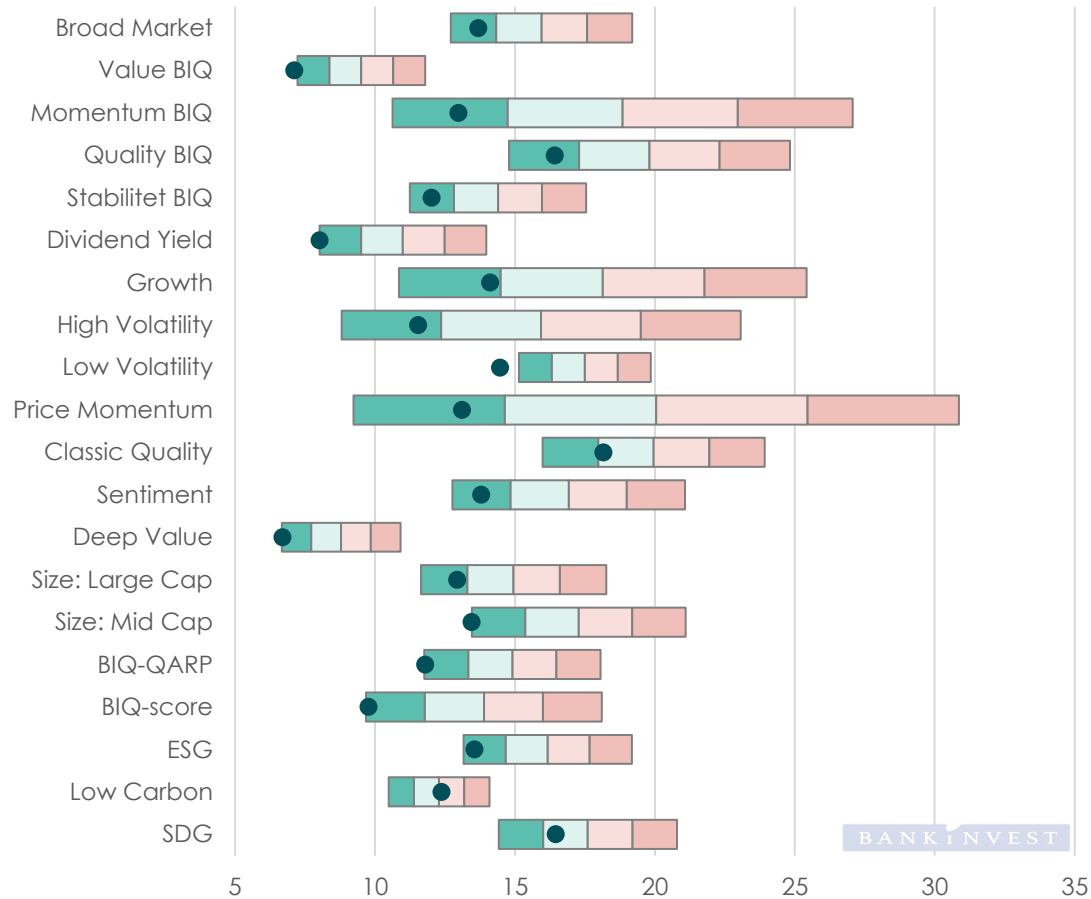
Broad Market - Extreme & negative P/E ratios



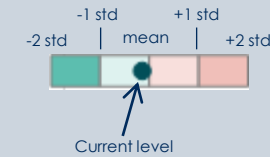
** An extreme valuation is defined as: estimate P/E (NTM) > 100.

*** In terms of number of stocks in the universe. 5% extreme valuations means that 5% of the stocks in the selected universe are above est P/E 100.

Factor valuation overview



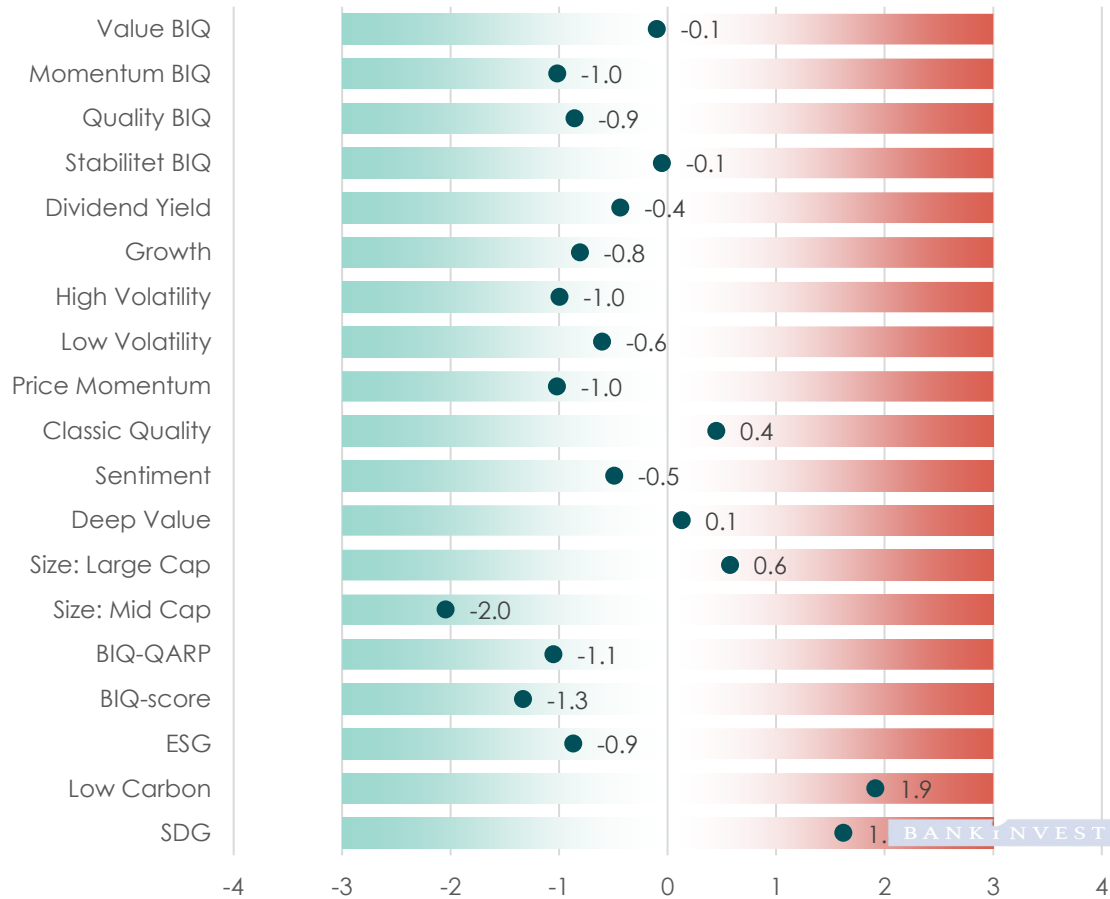
- Absolute valuation levels compared.
- The bar visualizes the given factor's historical confidence intervals, i.e., "valuation range":



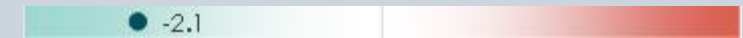
corresponding to the chart figures:



Factor relative valuation overview



- Relative valuation vs. the broad market.
- How is that premium/discount compared to the factor's own historical premium/discount?
- E.g. this factor trades -2.1 standard deviations below is historical average premium to the market:



Corresponding to the relative valuation chart figures:



Factor valuation charts

Value BIQ

Value BIQ - est P/E (NTM)
Global



Momentum BIQ

Momentum BIQ - est P/E (NTM)
Global



Quality BIQ

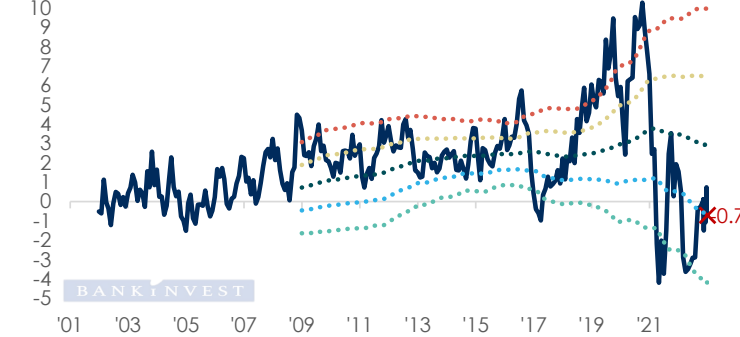
Quality BIQ - est P/E (NTM)
Global



Value BIQ(Global) vs. Broad Market(Global)
est P/E (NTM)



Momentum BIQ(Global) vs. Broad Market(Global)
est P/E (NTM)



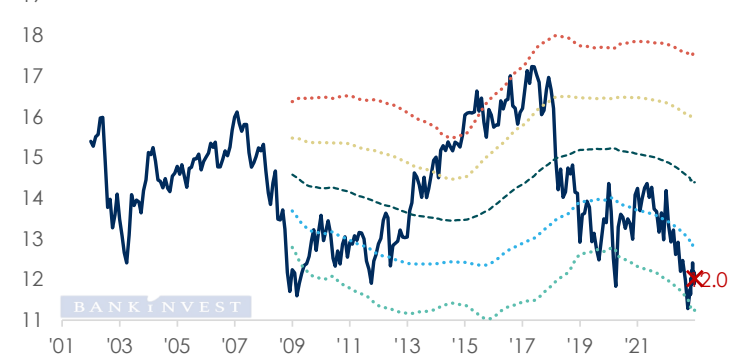
Quality BIQ(Global) vs. Broad Market(Global)
est P/E (NTM)



Factor valuation charts

Stability BIQ

Stability BIQ - est P/E (NTM)
Global



Dividend Yield

Dividend Yield - est P/E (NTM)
Global



Growth

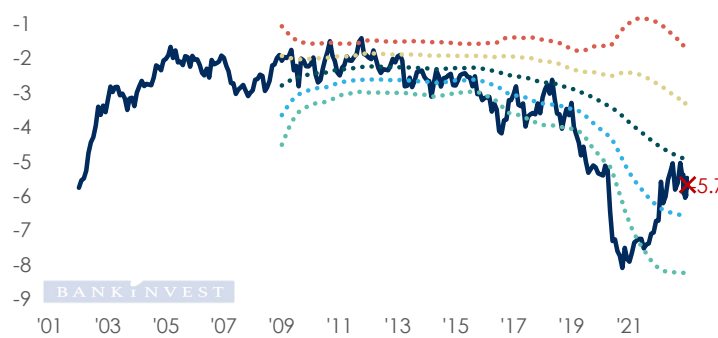
Growth - est P/E (NTM)
Global



Stability BIQ(Global) vs. Broad Market(Global)
est P/E (NTM)



Dividend Yield(Global) vs. Broad
Market(Global)
est P/E (NTM)



Growth(Global) vs. Broad Market(Global)
est P/E (NTM)



Factor valuation charts

High Volatility

High Volatility - est P/E (NTM)
Global



Low Volatility

Low Volatility - est P/E (NTM)
Global



Price Momentum

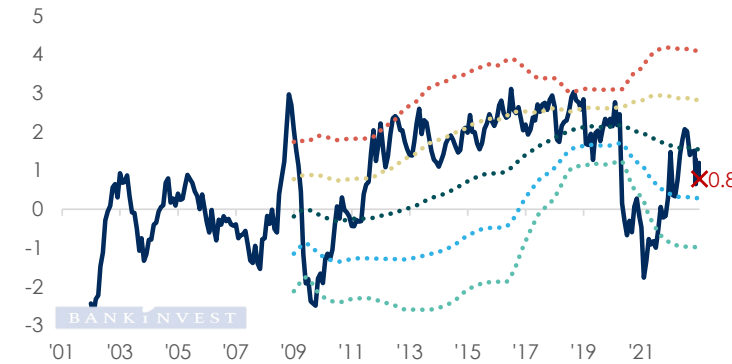
Price Momentum - est P/E (NTM)
Global



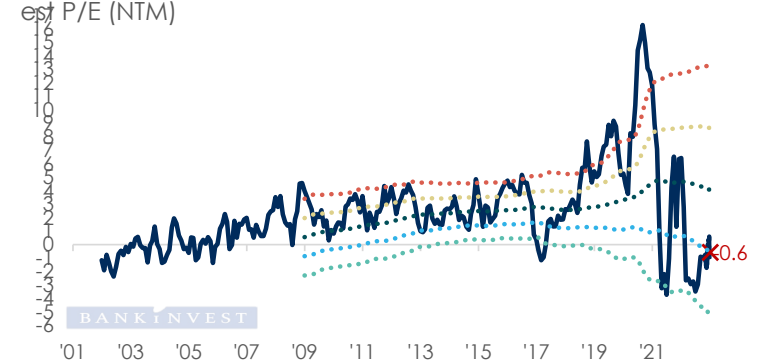
High Volatility(Global) vs. Broad Market(Global)
est P/E (NTM)



Low Volatility(Global) vs. Broad Market(Global)
est P/E (NTM)



Price Momentum(Global) vs. Broad
Market(Global)
est P/E (NTM)



Factor valuation charts

Classic Quality

Classic Quality - est P/E (NTM)
Global



Sentiment

Sentiment - est P/E (NTM)
Global



Deep Value

Deep Value - est P/E (NTM)
Global



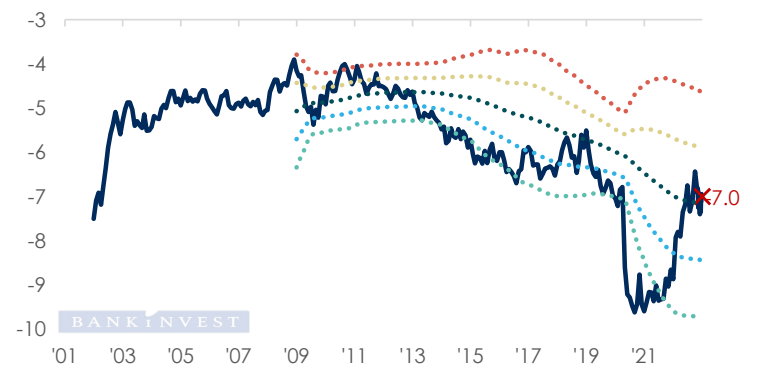
Classic Quality(Global) vs. Broad Market(Global)
est P/E (NTM)



Sentiment(Global) vs. Broad Market(Global)
est P/E (NTM)



Deep Value(Global) vs. Broad Market(Global)
est P/E (NTM)



Factor valuation charts

Large Cap

Size: Large Cap - est P/E (NTM)
Global



Mid Cap

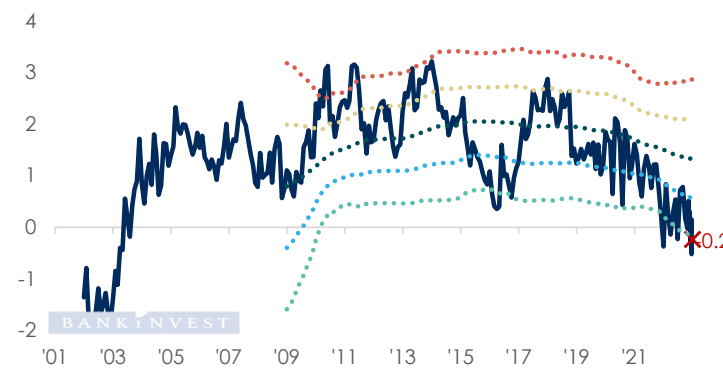
Size: Mid Cap - est P/E (NTM)
Global



Size: Large Cap(Global) vs. Broad Market(Global)
est P/E (NTM)



Size: Mid Cap(Global) vs. Broad Market(Global)
est P/E (NTM)



Factor valuation charts in Global

BIQ-QARP

BIQ-QARP - est P/E (NTM)
Global



BIQ-score

BIQ-score - est P/E (NTM)
Global



BIQ-QARP(Global) vs. Broad Market(Global)
est P/E (NTM)

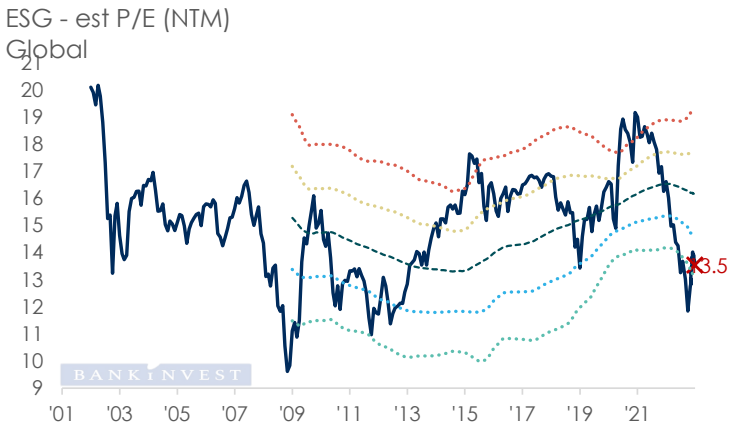


BIQ-score(Global) vs. Broad Market(Global)
est P/E (NTM)



Factor valuation charts

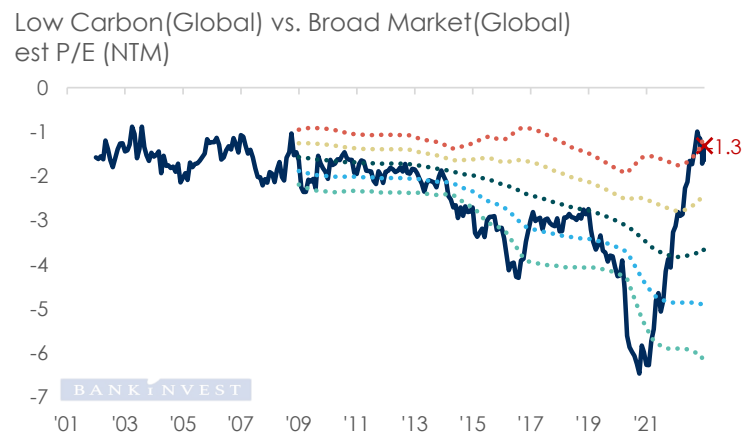
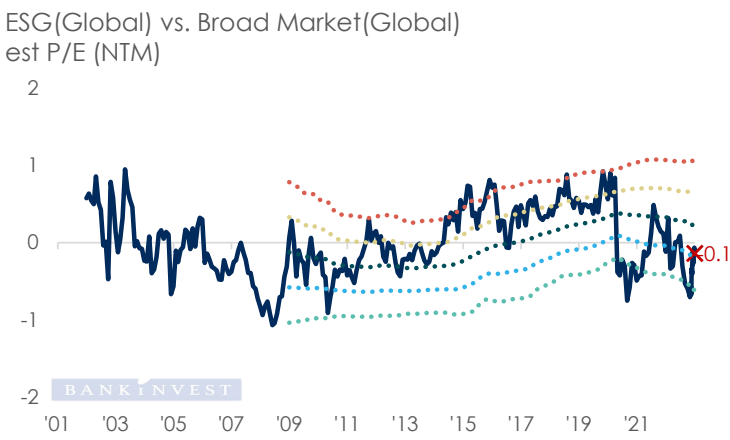
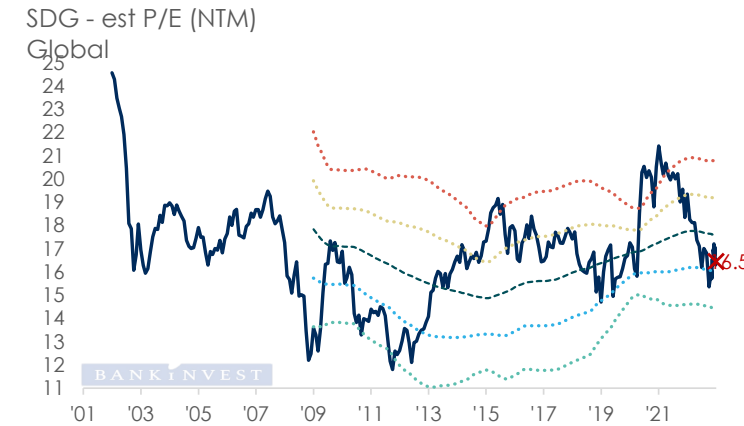
ESG



Low Carbon



SDG



In case of questions, request for time-series or current holdings within a strategy your more than welcome to contact us.

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