

Prepared for:



# Portfolio Summary

Portfolio holdings, analytics and insights generated by  
Portfolio360™ by BlackRock

**Prepared for:**

**Martin Cimprich**

**Edward - Investment Services**

**Rizikovost 7**

**25/02/2024**

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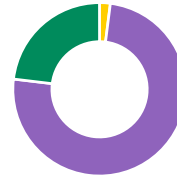
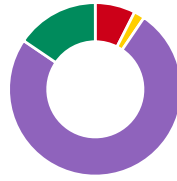
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# Overview

# Holdings



Name	MP7	MC7	ESG7
<b>Cash</b>	<b>2.00%</b>	<b>2.00%</b>	<b>2.00%</b>
CZECH KORUNA*	2.00%	2.00%	2.00%
<b>Fixed Income</b>	<b>15.50%</b>	<b>23.10%</b>	<b>34.50%</b>
iShares VII PLC - iShares Ai Govt Bond 1-3yr ETF EUR Acc	-	-	3.20%
iShares Core Global Aggregate Bond UCITS ETF EUR Hedged (Acc)	4.50%	-	-
Amundi Global Aggregate Green Bond UCITS ETF Acc	-	-	2.50%
iShares \$ Treasury Bond 1-3yr UCITS ETF USD (Acc)	-	-	7.10%
iShares Global High Yield Corp Bond UCITS ETF USD (Acc)	5.00%	-	-
iShares J.P. Morgan ESG \$ EM Bond UCITS ETF USD (Acc)	-	-	3.00%
iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)	-	-	3.80%
iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)	3.00%	-	-
iShares J.P. Morgan \$ EM Bond UCITS ETF EUR Hedged (Acc)*	3.00%	-	-
iShares \$ High Yield Corp Bond ESG UCITS ETF USD (Acc)*	-	5.80%	-
iShares \$ High Yield Corp Bond ESG UCITS ETF USD (Acc)*	-	-	2.40%
iShares Ai Govt Bond Climate UCITS ETF EUR (Acc)*	-	-	5.90%
iShares \$ Corp Bond ESG UCITS ETF USD Acc*	-	-	1.90%
iShares Ai Corp Bond ESG UCITS ETF EUR (Acc)*	-	-	1.80%
iShares \$ TIPS 0-5 UCITS ETF USD (Acc)*	-	-	1.50%
iShares Core Global Aggregate Bond UCITS ETF EUR Hedged (Acc)	-	17.30%	-
iShares Ai Inflation Linked Govt Bond UCITS ETF EUR (Acc)	-	-	1.40%
<b>Equity</b>	<b>75.00%</b>	<b>74.90%</b>	<b>63.50%</b>

iShares MSCI Europe SRI UCITS ETF EUR (Acc)	-	-	9.60%
iShares NASDAQ 100 UCITS ETF USD (Acc)	3.00%	-	-
iShares VII PLC - iShares Core MSCI Pac ex-Jpn ETF USD Acc	2.00%	-	-
Xtrackers MSCI Japan UCITS ETF 4C EUR Hedged	5.00%	-	-
iShares Developed Markets Property Yield UCITS ETF EUR Hedged (Acc)	10.00%	-	-
SPDR MSCI World Small Cap UCITS ETF	9.00%	-	-
iShares Core S&P 500 UCITS ETF USD (Acc)	-	46.70%	-
iShares Core FTSE 100 UCITS ETF GBP (Dist)	-	2.90%	-
Amundi Index Solutions - Amundi MSCI Em Asia UCITS ETF-C EUR	10.00%	-	-
Xtrackers MSCI Japan ESG UCITS ETF 1C	-	-	7.50%
Xtrackers MSCI Japan ESG UCITS ETF 1C	-	4.60%	-
iShares Edge MSCI USA Minimum Volatility ESG UCITS ETF USD (Acc)*	-	-	3.90%
iShares Core MSCI EM IMI UCITS ETF USD (Acc)	7.00%	-	-
iShares VII PLC - iShares Core MSCI Pac ex-Jpn ETF USD Acc	-	2.50%	-
iShares VII PLC -iShares Core MSCI EMU UCITS ETF EUR (Acc)	-	9.80%	-
iShares Core MSCI EM IMI UCITS ETF USD (Acc)	-	8.40%	-
VanEck Morningstar US Sustainable Wide Moat UCITS ETF	19.00%	-	-
iShares Edge MSCI Europe Multifactor UCITS ETF EUR (Acc)	10.00%	-	-
iShares MSCI USA SRI UCITS ETF USD (Acc)	-	-	37.80%
iShares MSCI EM SRI UCITS ETF USD (Acc)	-	-	4.70%
<b>Alternative</b>	<b>7.50%</b>	-	-
iShares Physical Gold ETC	7.50%	-	-

**\*For the marked assets we include parametric past performance simulation to derive overall portfolio returns.** Marked stocks, funds, and alternatives include parametric simulation for periods missing actual returns - for example before an IPO of a stock or inception date of a fund. Past performance of bonds is simulated throughout the performance measurement period. Please refer to the **Parametric Simulated Performance**.

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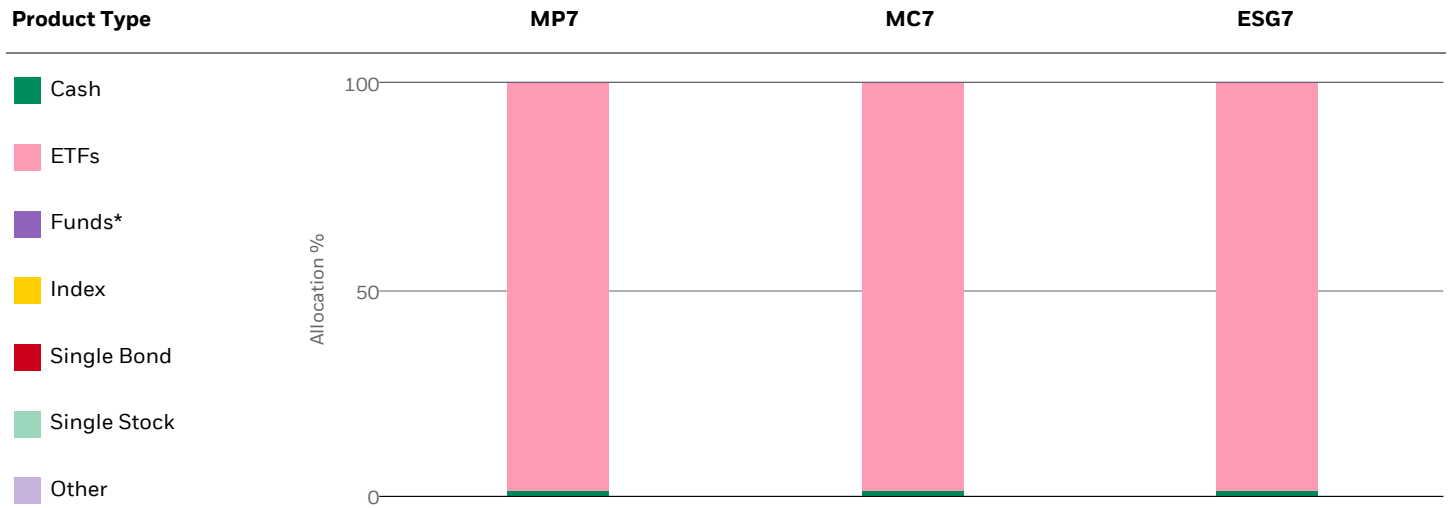
# Characteristics

# CHARACTERISTICS

## Total Breakdown

As of 31/01/2024

### PRODUCT TYPE



Product Type	MP7	MC7	ESG7
Cash	2.00%	2.00%	2.00%
ETFs	98.00%	98.00%	98.00%
Funds*	0.00%	0.00%	0.00%
Index	0.00%	0.00%	0.00%
Single Bond	0.00%	0.00%	0.00%
Single Stock	0.00%	0.00%	0.00%
Other	0.00%	0.00%	0.00%

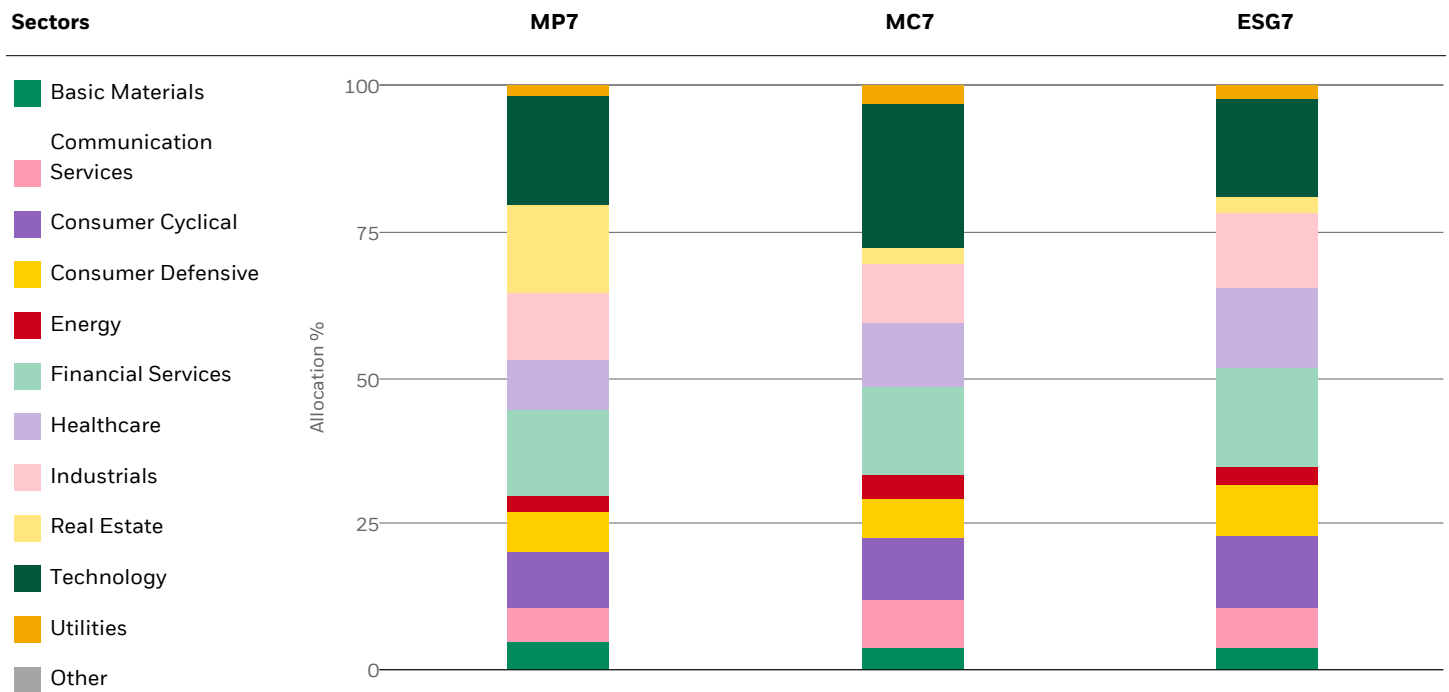
\*Note: Funds excludes ETFs

Source: Morningstar, Refinitiv as of 31/01/2024

# Equity Breakdown

As of 31/01/2024

## EQUITY SECTOR ALLOCATION

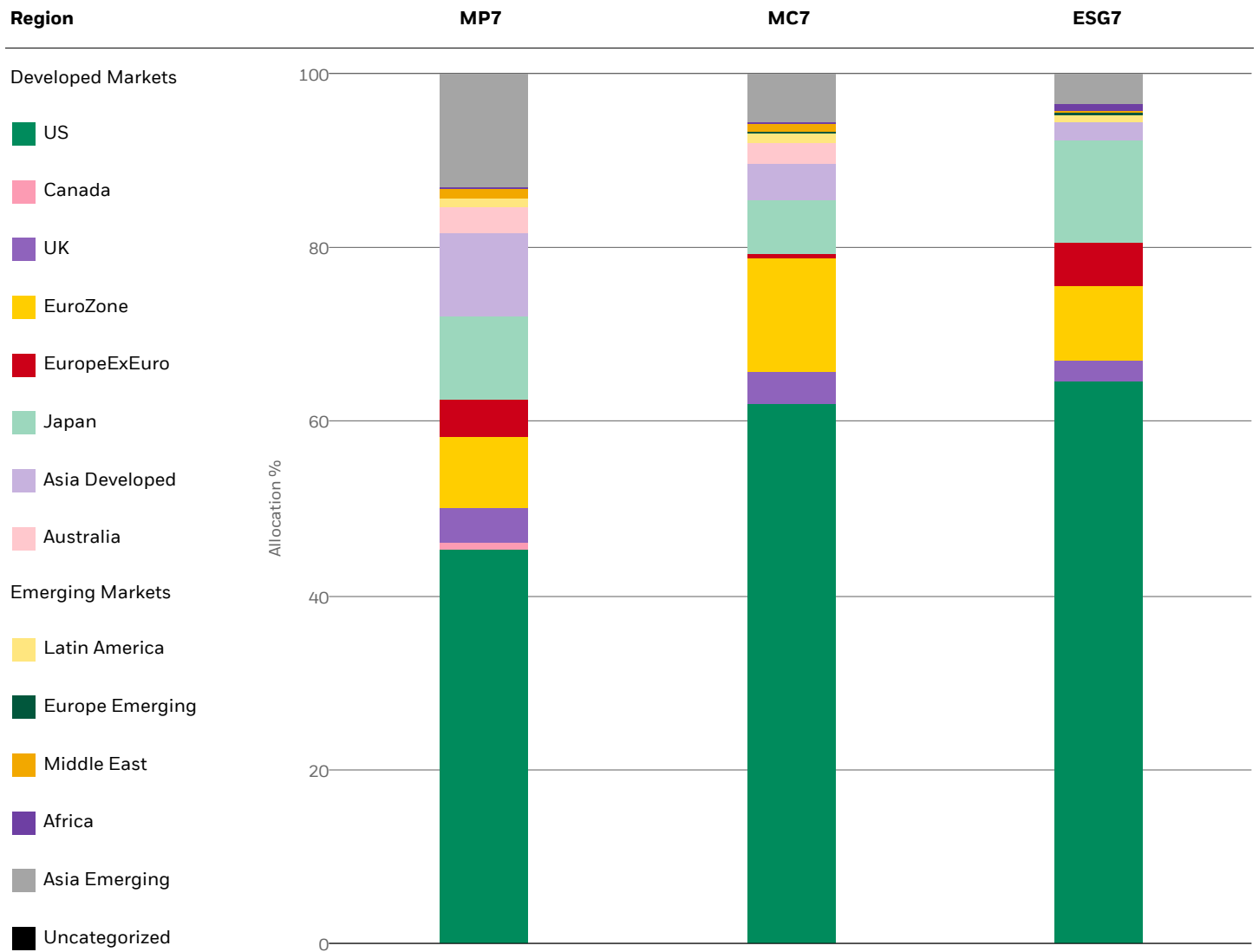


Sectors	MP7	MC7	ESG7
Basic Materials	4.90%	4.20%	4.15%
Communication Services	6.16%	7.94%	6.85%
Consumer Cyclical	9.66%	10.86%	12.33%
Consumer Defensive	6.83%	6.60%	8.78%
Energy	2.40%	4.16%	2.96%
Financial Services	14.64%	15.30%	16.83%
Healthcare	8.63%	10.84%	13.79%
Industrials	11.47%	10.17%	12.92%
Real Estate	15.22%	2.50%	2.83%
Technology	18.62%	24.73%	16.59%
Utilities	1.36%	2.66%	1.96%
Other	0.11%	0.03%	0.01%

Source: Morningstar, Refinitiv as of 31/01/2024



**EQUITY REGIONS**

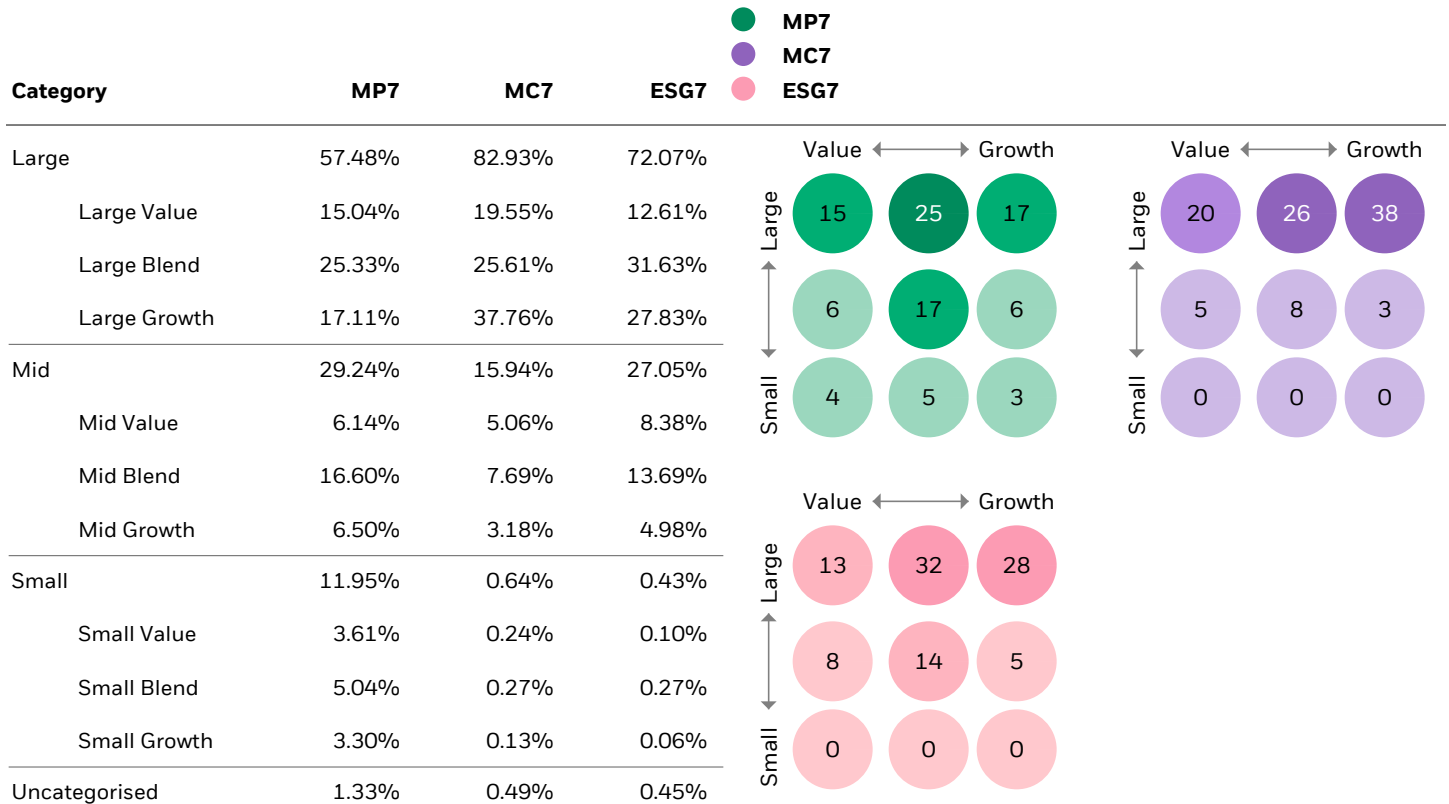


Region	MP7	MC7	ESG7
<b>Developed Markets</b>	84.86%	92.22%	94.71%
US	45.38%	62.28%	64.78%
Canada	0.77%	0.00%	0.00%
UK	4.19%	3.80%	2.56%
EuroZone	8.28%	12.95%	8.39%
EuropeExEuro	4.26%	0.42%	5.08%
Japan	9.45%	6.15%	11.84%
Asia Developed	9.69%	4.32%	2.06%
Australia	2.85%	2.31%	0.00%
<b>Emerging Markets</b>	15.14%	7.77%	5.29%
Latin America	0.94%	1.03%	0.82%
Europe Emerging	0.23%	0.26%	0.15%
Middle East	0.85%	0.82%	0.37%
Africa	0.30%	0.36%	0.82%
Asia Emerging	12.82%	5.31%	3.13%
Uncategorized	0.00%	0.00%	0.00%

Source: Morningstar, Refinitiv as of 31/01/2024

**Equity Style**

The style characteristics of your stocks - like value, growth, & size - can influence your equity portfolio's performance in different market environments.



Source: Morningstar And Aladdin

# Fixed Income Breakdown

As of 31/01/2024

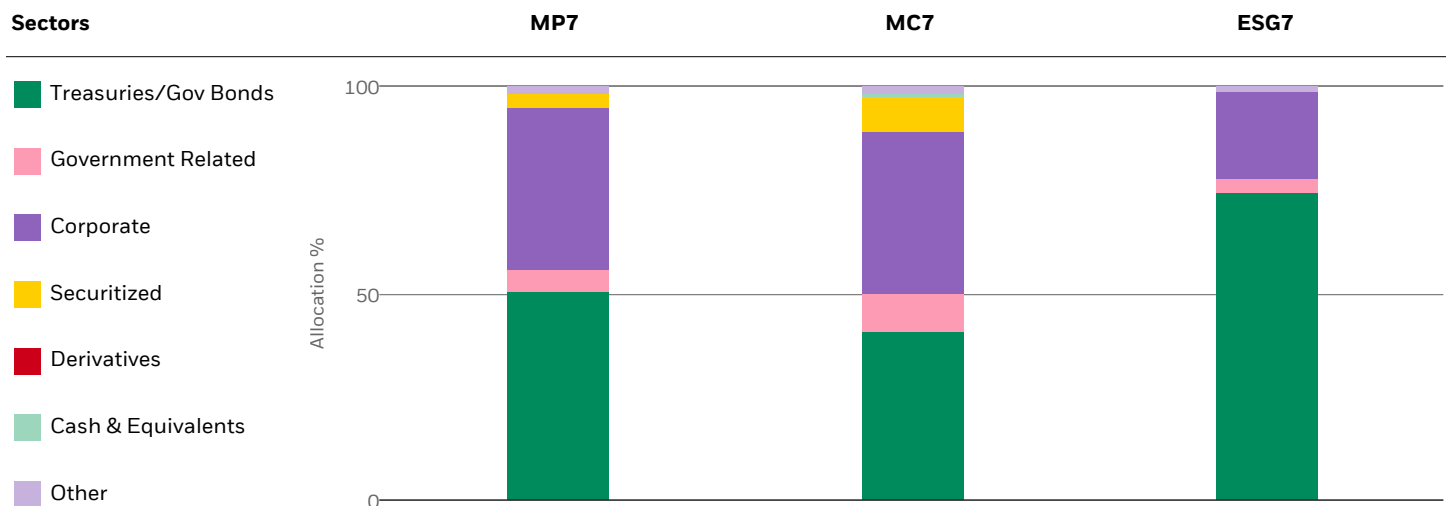
## FIXED INCOME ATTRIBUTES



Attributes	MP7	MC7	ESG7
Current Coupon Yield	0.00%	0.00%	0.00%
Average Effective Duration	7.59yr	5.84yr	6.08yr

Source: Morningstar, Refinitiv as of 31/01/2024

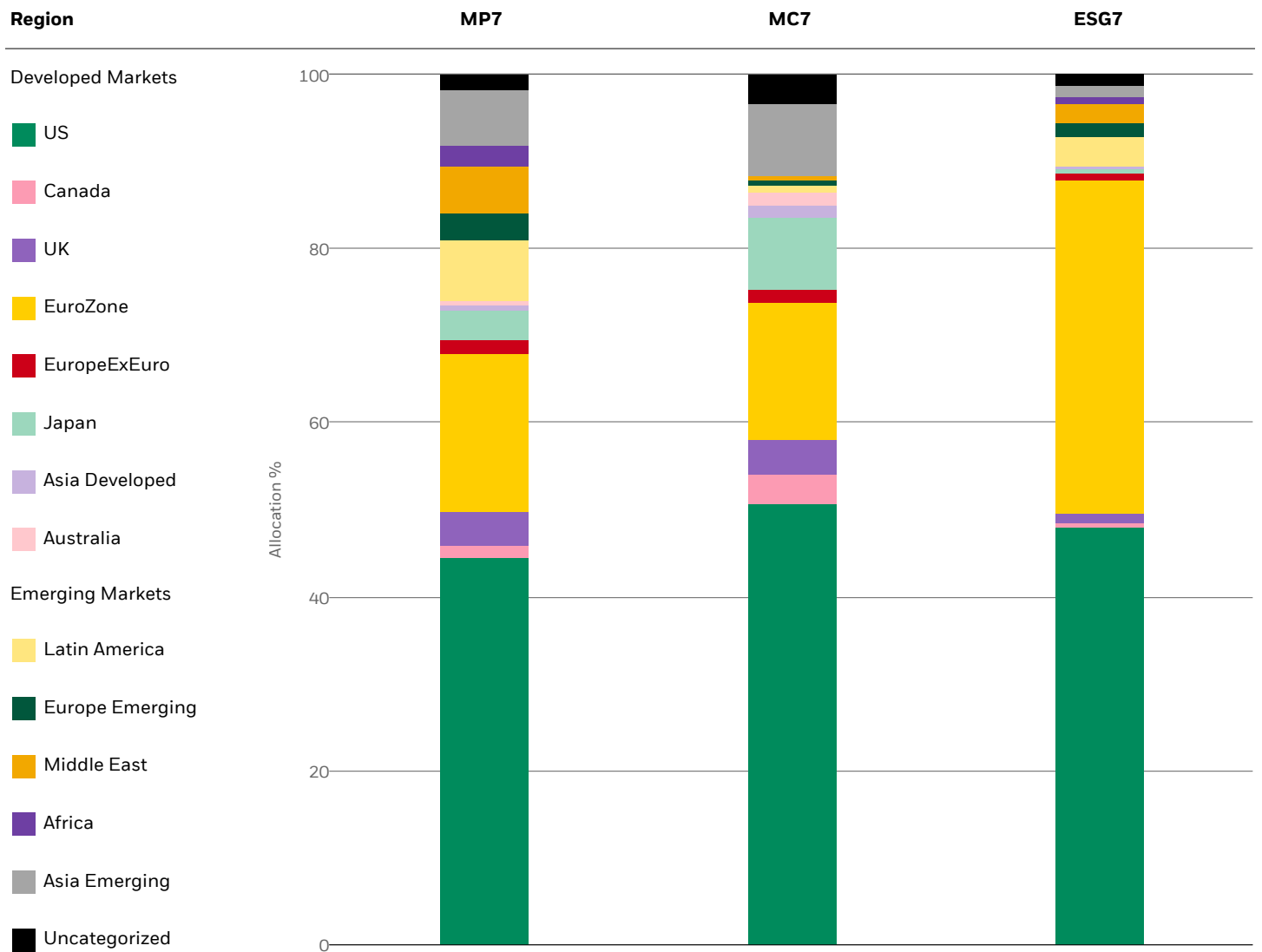
## FIXED INCOME SECTOR ALLOCATION



Sectors	MP7	MC7	ESG7
Treasuries/Gov Bonds	50.77%	41.51%	75.08%
Government Related	5.62%	9.07%	2.86%
Corporate	38.83%	39.25%	21.25%
Securitized	3.17%	8.19%	0.01%
Derivatives	0.00%	0.00%	0.00%
Cash & Equivalents	0.44%	0.47%	0.30%
Other	1.17%	1.51%	0.51%

Source: Morningstar, Refinitiv as of 31/01/2024

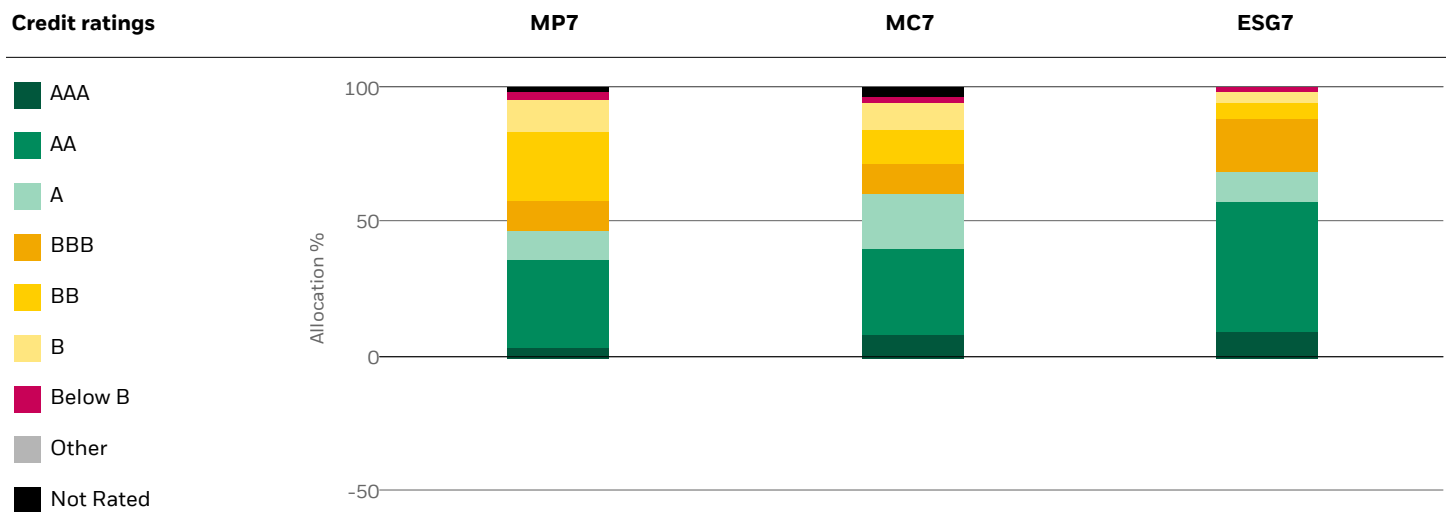
**FIXED INCOME REGIONS**



Region	MP7	MC7	ESG7
<b>Developed Markets</b>	74.25%	86.66%	89.75%
US	44.57%	50.89%	48.17%
Canada	1.53%	3.41%	0.53%
UK	3.88%	4.01%	1.02%
EuroZone	18.04%	15.57%	38.20%
EuropeExEuro	1.66%	1.73%	1.03%
Japan	3.44%	8.15%	0.36%
Asia Developed	0.54%	1.29%	0.21%
Australia	0.58%	1.61%	0.24%
<b>Emerging Markets</b>	24.25%	10.14%	9.21%
Latin America	6.90%	0.76%	3.32%
Europe Emerging	3.09%	0.66%	1.55%
Middle East	5.43%	0.52%	2.17%
Africa	2.25%	0.02%	0.74%
Asia Emerging	6.58%	8.18%	1.43%
Uncategorized	1.50%	3.20%	1.04%


Source: Morningstar, Refinitiv as of 31/01/2024

**FIXED INCOME CREDIT RATING**



Credit ratings	MP7	MC7	ESG7
AAA	3.27%	8.43%	9.60%
AA	33.34%	32.23%	48.44%
A	11.24%	20.71%	11.54%
BBB	10.08%	10.66%	19.47%
BB	25.92%	13.43%	5.96%
B	12.07%	9.24%	3.68%
Below B	2.86%	2.22%	1.26%
Other	-0.01%	0.00%	0.01%
Not Rated	1.24%	3.08%	0.03%

Source: Morningstar, Refinitiv as of 31/01/2024



# Historical Performance & Risk

# PERFORMANCE

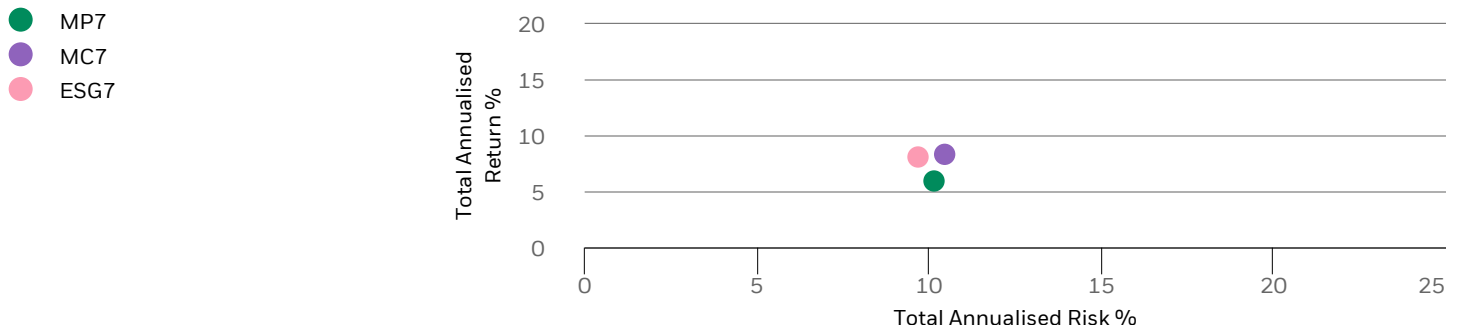
## Year on Year Performance

Year	MP7	MC7	ESG7
02/19-01/20	12.81%	14.47%	16.17%
02/20-01/21	10.39%	8.40%	10.72%
02/21-01/22	4.68%	10.62%	8.57%
02/22-01/23	-6.93%	-7.07%	-7.08%
02/23-01/24	10.52%	16.98%	13.80%

## Historical Returns vs Risk

As of 31/01/2024

Portfolio	Total Annualised Return	Annualised Risk	Sharpe Ratio	Total Return
MP7	6.04%	10.17%	-0.05	34.08%
MC7	8.34%	10.50%	0.16	49.23%
ESG7	8.11%	9.68%	0.14	47.65%



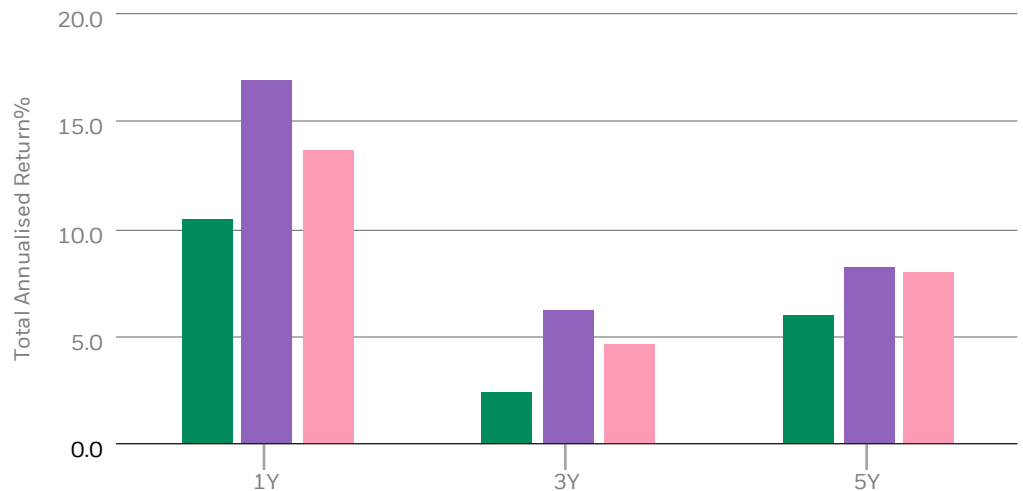
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Source: BlackRock, Aladdin as of 31/01/2024, Currency: CZK, performance is net of fees.



## Performance to Date

■ MP7  
 ■ MC7  
 ■ ESG7



Year	MP7	MC7	ESG7
1Y	10.52%	16.98%	13.80%
3Y	2.49%	6.34%	4.71%
5Y	6.04%	8.34%	8.11%

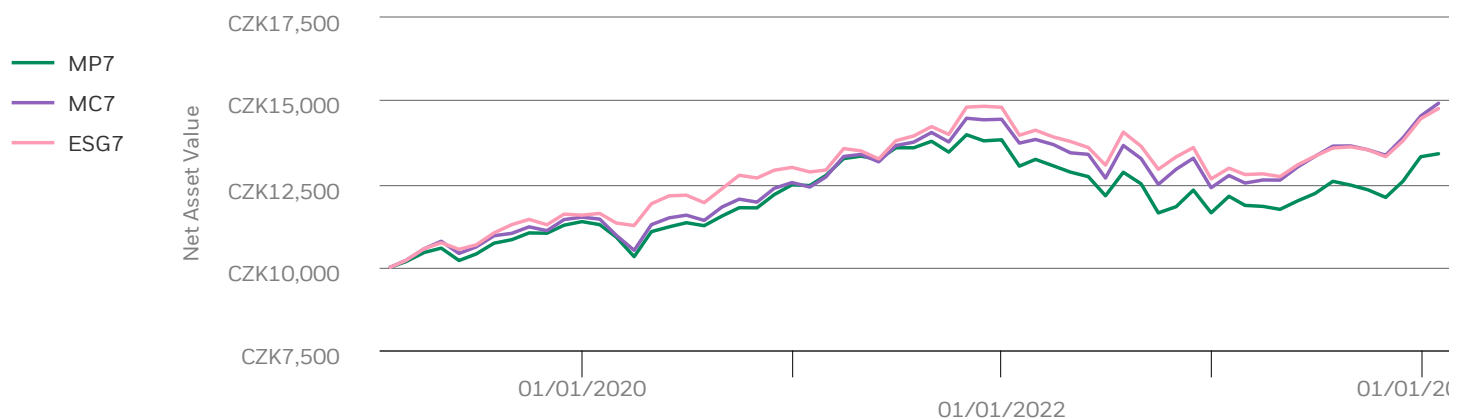
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## Growth of Hypothetical Investment

As of 31/01/2024

Hypothetical Initial Investment: CZK10,000



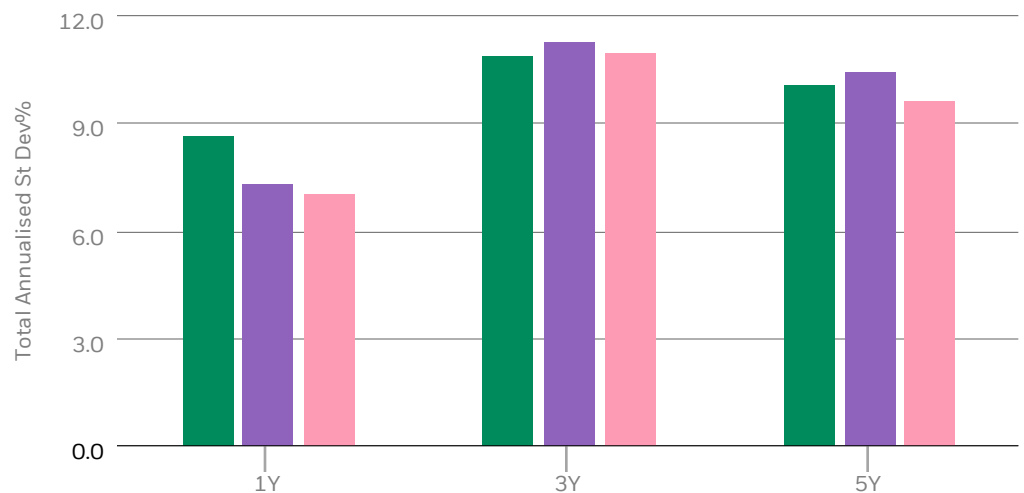
The growth of a hypothetical investment assumes reinvestment of dividends and capital gains.

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## Volatility to Date

- MP7
- MC7
- ESG7



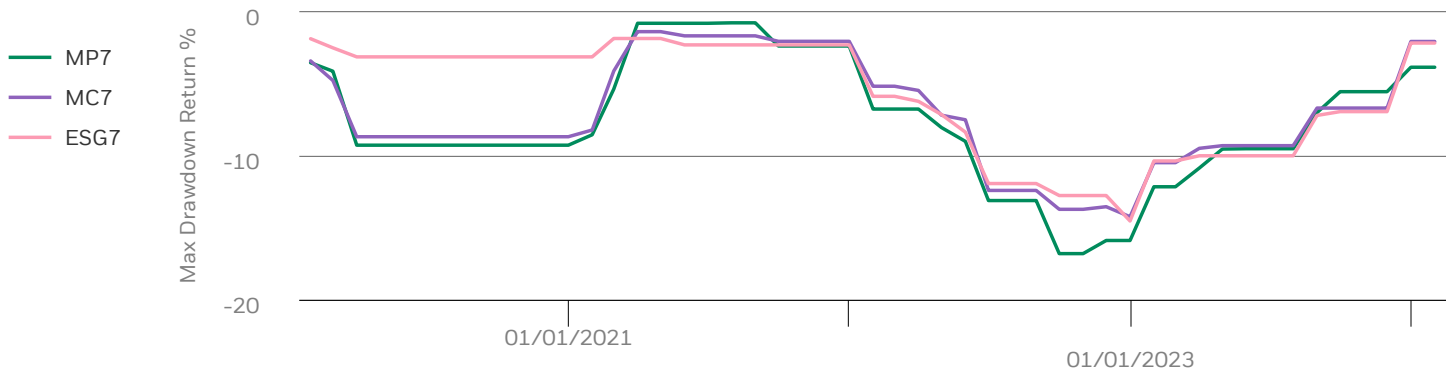
Year	MP7	MC7	ESG7
1Y	8.74%	7.39%	7.09%
3Y	10.96%	11.33%	11.01%
5Y	10.17%	10.50%	9.68%

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## Rolling Performance

### 12-MONTH MAXIMUM DRAWDOWN



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# Risk

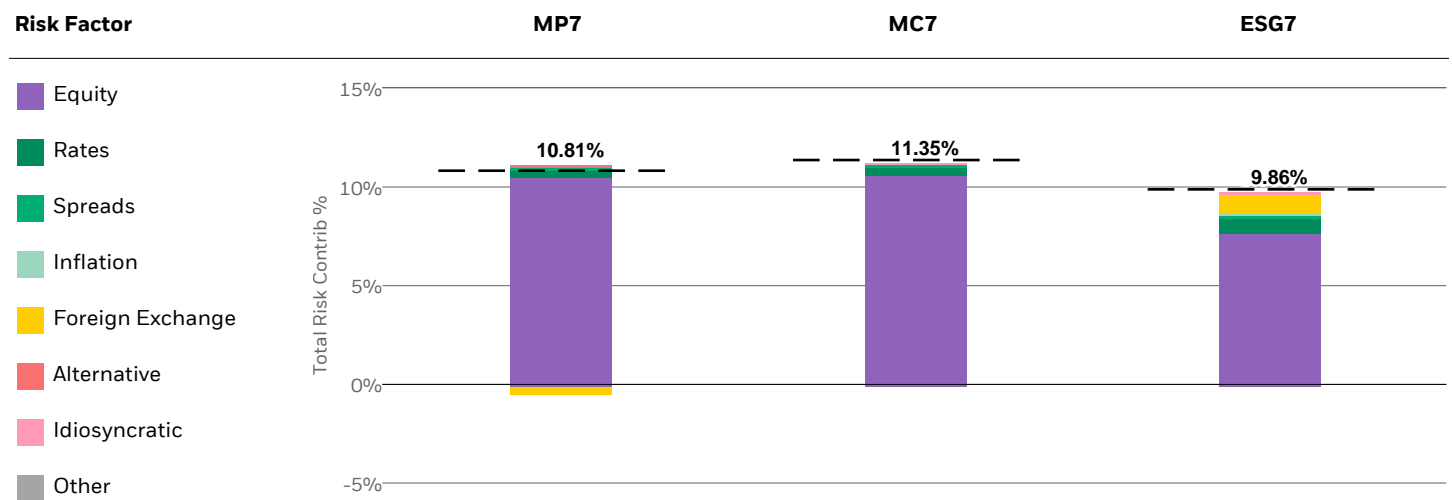
# RISK

While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.

## Ex-ante Risk

Portfolio	Ex-ante Risk	Beta to MSCI All Country World Gross TR Index
MP7	10.81%	0.74
MC7	11.35%	0.79
ESG7	9.86%	0.68

## TOTAL RISK CONTRIBUTION

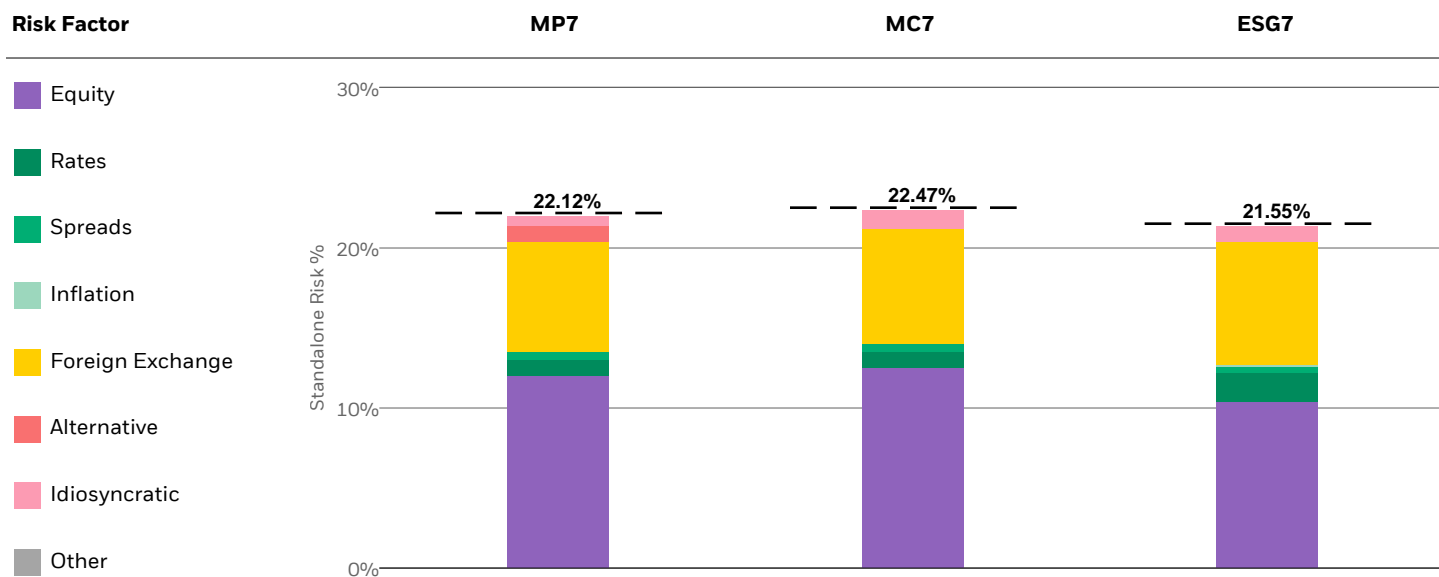


Risk Factor	MP7	MC7	ESG7
Equity	10.48%	10.62%	7.72%
Rates	0.41%	0.40%	0.83%
Spreads	0.25%	0.22%	0.15%
Inflation	0.00%	0.00%	0.02%
Foreign Exchange	-0.46%	-0.01%	1.02%
Alternative	0.09%	0.00%	0.00%
Idiosyncratic	0.04%	0.11%	0.11%
Other	0.00%	0.01%	0.00%

Source: BlackRock, Aladdin Risk as of 31/01/2024 Performance as of 31/01/2024, Currency: CZK

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

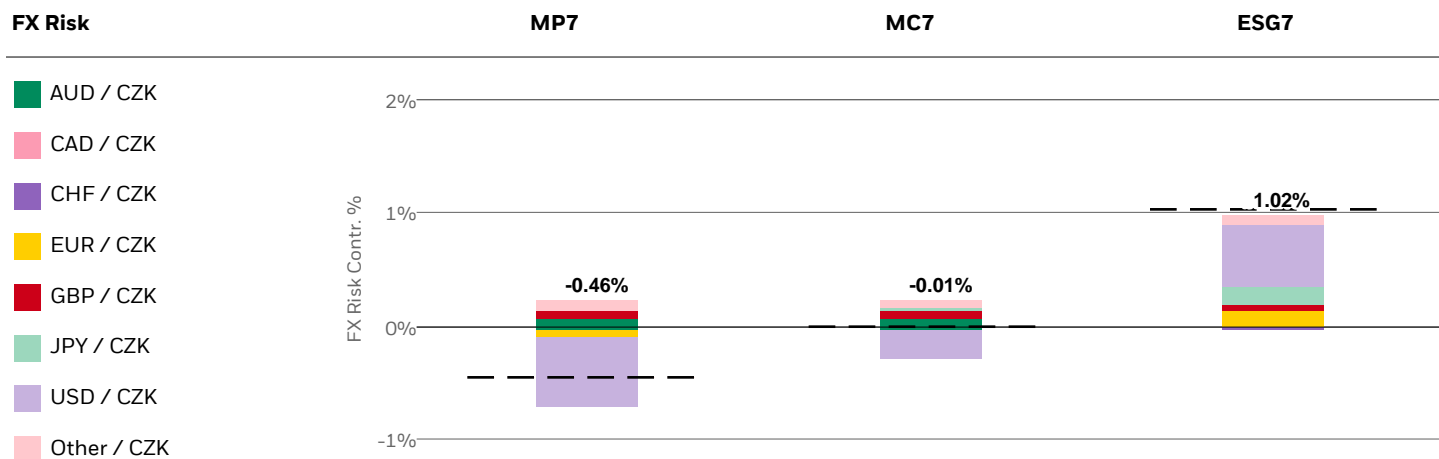
**STANDALONE RISK CONTRIBUTION**



Risk Factor	MP7	MC7	ESG7
Equity	12.19%	12.70%	10.45%
Rates	1.01%	1.01%	1.82%
Spreads	0.45%	0.40%	0.44%
Inflation	0.00%	0.00%	0.09%
Foreign Exchange	6.80%	7.25%	7.69%
Alternative	1.03%	0.00%	0.00%
Idiosyncratic	0.65%	1.09%	1.06%
Other	0.01%	0.02%	0.00%

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**FX RISK CONTRIBUTION**



**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.



**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

## SECURITY RISK CONTRIBUTION (TOP 10)

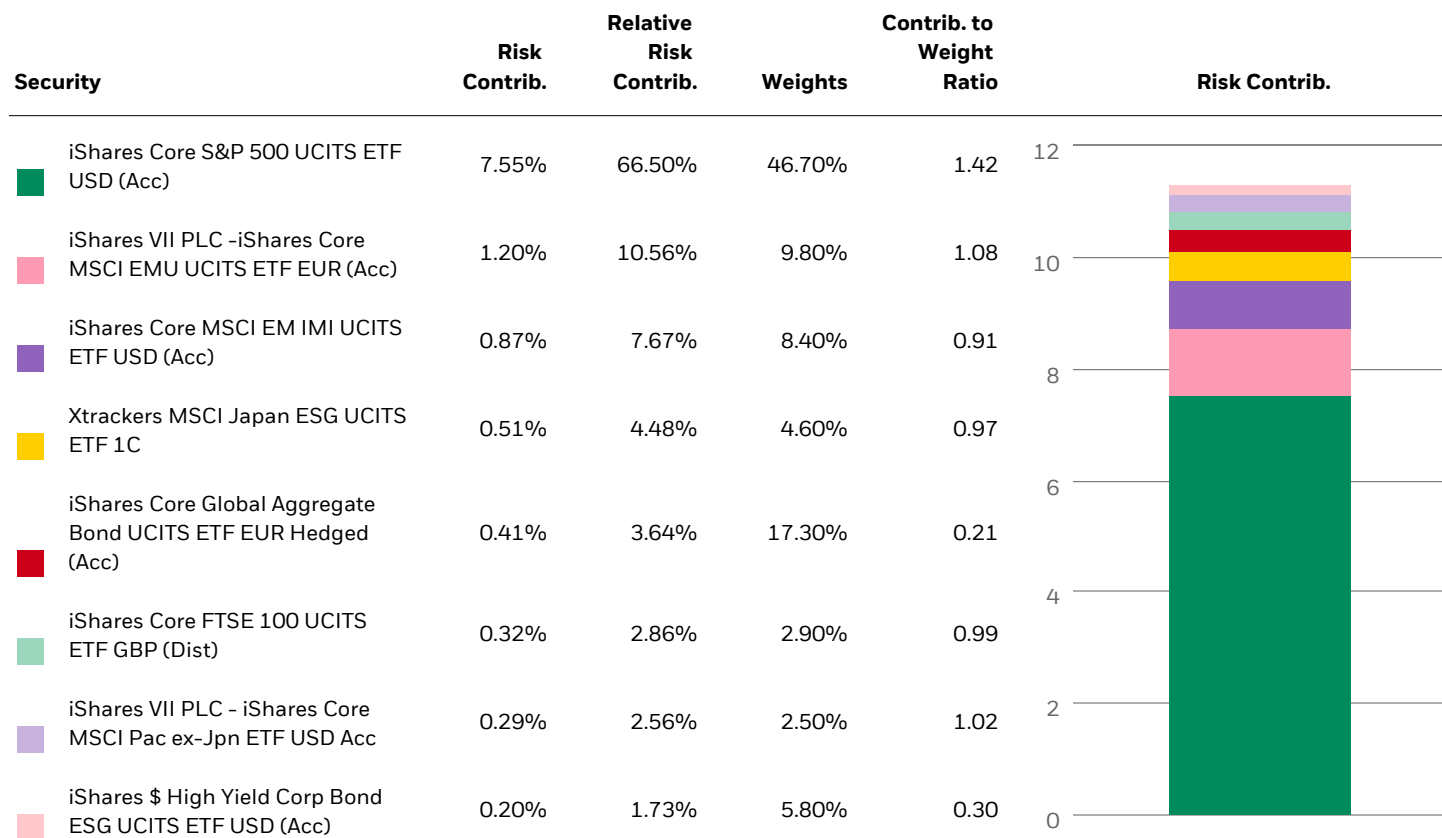
### MP7



Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

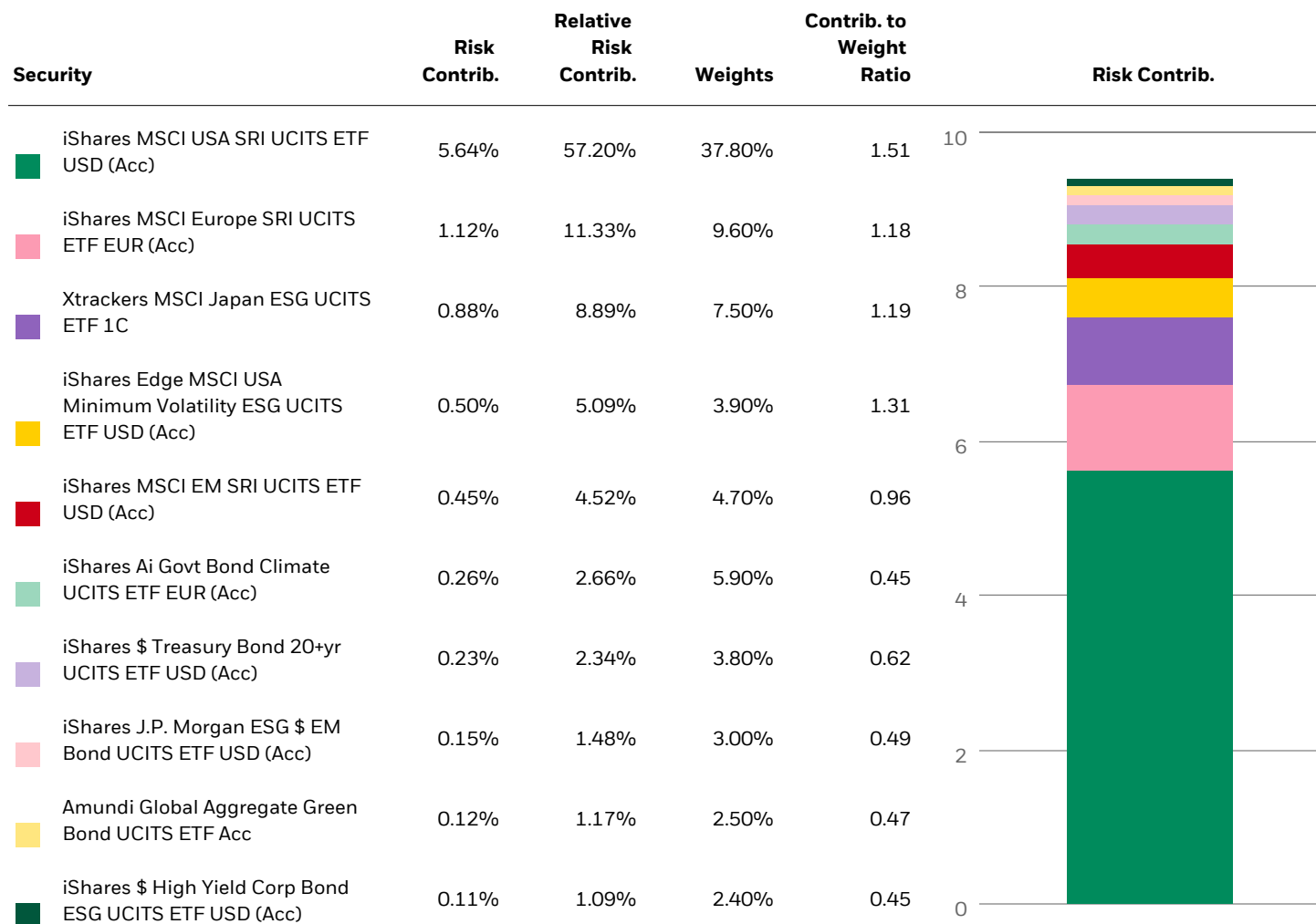
**MC7**



Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

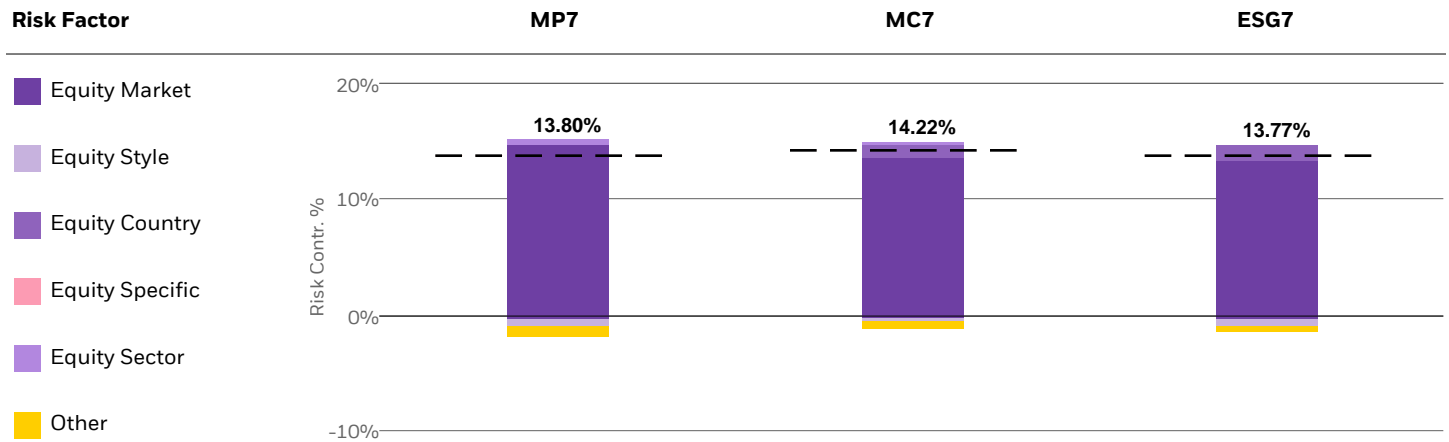
**ESG7**



Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

**EQUITY RISK CONTRIBUTION**

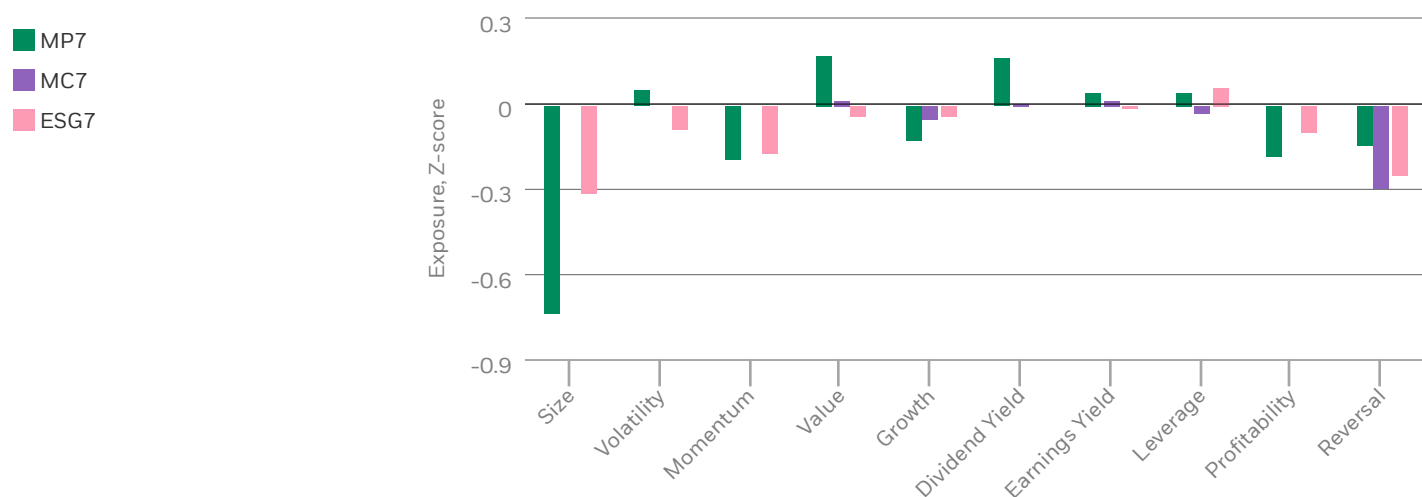


Risk Factor	MP7	MC7	ESG7
Equity Market	14.82%	13.71%	13.55%
Equity Style	-0.77%	-0.35%	-0.76%
Equity Country	-0.03%	1.11%	1.28%
Equity Specific	0.05%	0.15%	0.20%
Equity Sector	0.61%	0.18%	-0.05%
Other	-0.89%	-0.57%	-0.46%

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

**EQUITY ACTIVE EXPOSURES**

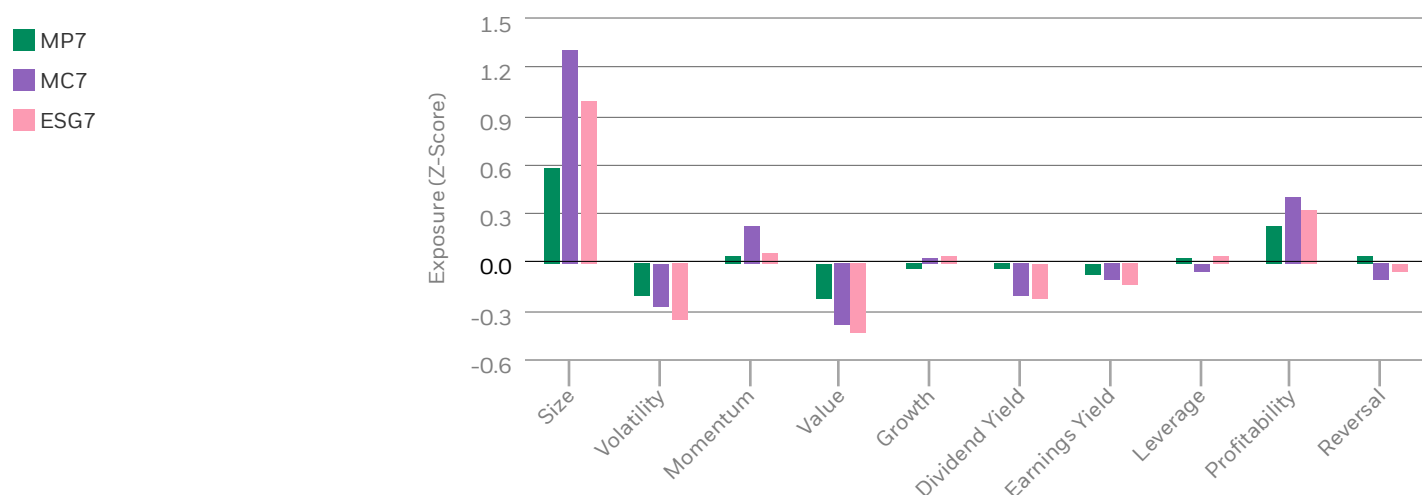


Factors	MP7	MC7	ESG7
Size	-0.73	0.00	-0.31
Volatility	0.06	0.00	-0.09
Momentum	-0.19	0.00	-0.17
Value	0.18	0.02	-0.04
Growth	-0.12	-0.05	-0.04
Dividend Yield	0.17	0.01	0.00
Earnings Yield	0.05	0.02	-0.01
Leverage	0.05	-0.03	0.07
Profitability	-0.18	0.00	-0.09
Reversal	-0.14	-0.29	-0.24

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

**EQUITY RISK EXPOSURE**

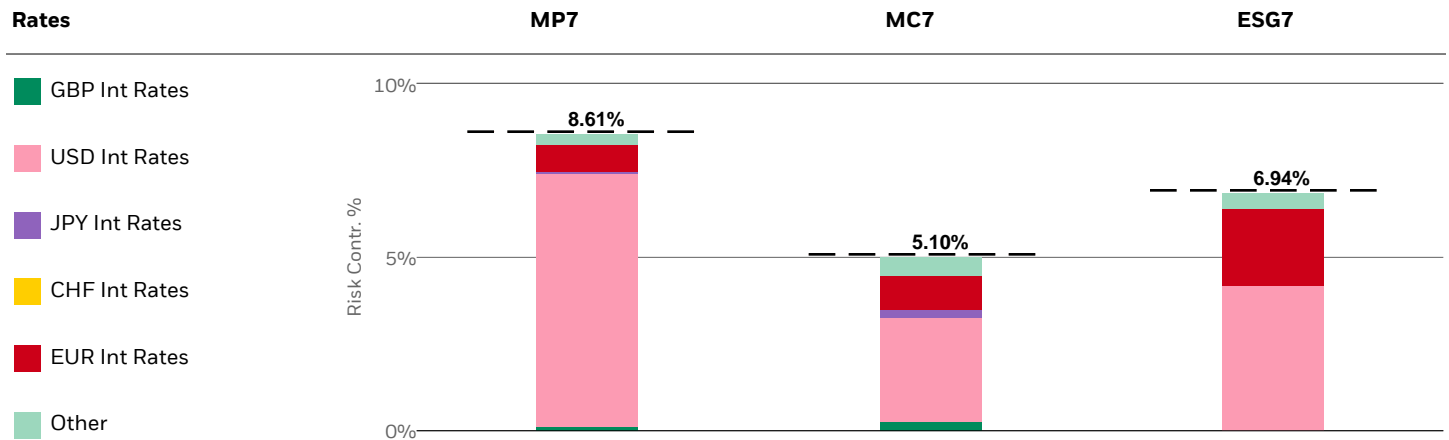


Factors	MP7	MC7	ESG7
Size	0.59	1.32	1.01
Volatility	-0.19	-0.25	-0.34
Momentum	0.05	0.24	0.08
Value	-0.20	-0.36	-0.41
Growth	-0.03	0.05	0.05
Dividend Yield	-0.03	-0.19	-0.20
Earnings Yield	-0.06	-0.09	-0.12
Leverage	0.04	-0.03	0.06
Profitability	0.24	0.42	0.33
Reversal	0.06	-0.09	-0.05

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

**RATES RISK CONTRIBUTION - STANDALONE RISK**

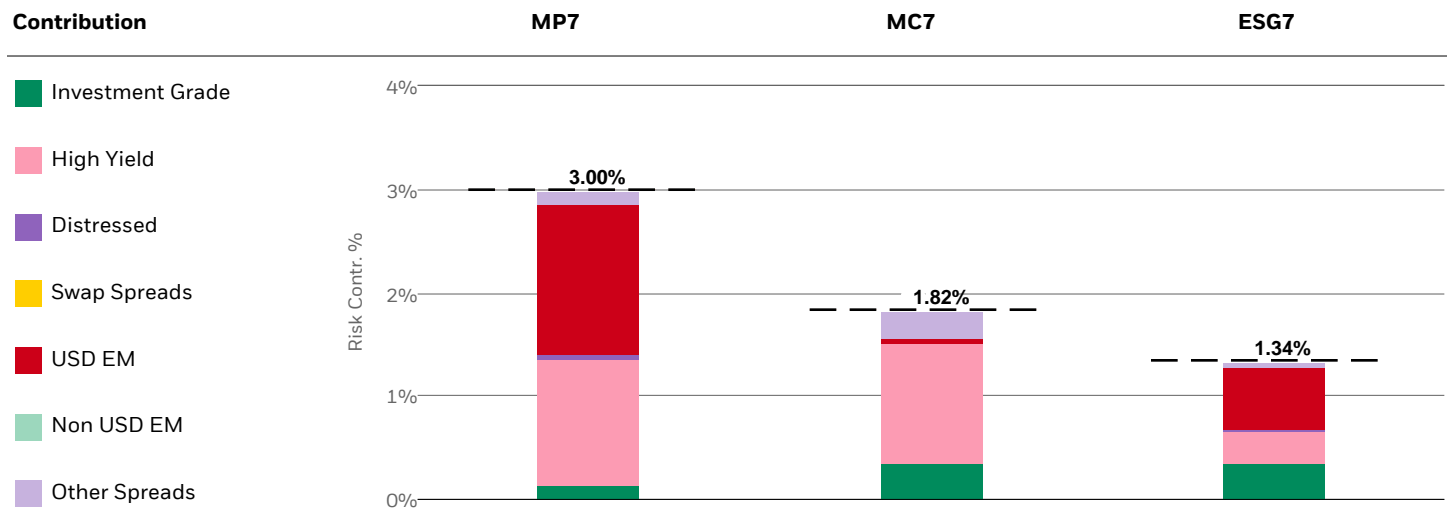


Rates	MP7	MC7	ESG7
GBP Int Rates	0.15%	0.28%	0.00%
USD Int Rates	7.29%	3.04%	4.26%
JPY Int Rates	0.09%	0.23%	0.00%
CHF Int Rates	0.01%	0.02%	0.00%
EUR Int Rates	0.80%	0.98%	2.18%
Other	0.27%	0.54%	0.50%

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.

**While proprietary technology platforms may help manage risk, risk cannot be eliminated. Risk management cannot fully eliminate the risk of investment loss.**

**SPREAD RISK CONTRIBUTION - STANDALONE RISK**



Contribution	MP7	MC7	ESG7
Investment Grade	0.16%	0.36%	0.36%
High Yield	1.20%	1.16%	0.32%
Distressed	0.06%	0.01%	0.00%
Swap Spreads	0.00%	0.00%	0.00%
USD EM	1.45%	0.04%	0.60%
Non USD EM	0.00%	0.00%	0.00%
Other Spreads	0.13%	0.25%	0.05%

Source: BlackRock, Aladdin as at 31/01/2024, Currency: CZK, performance is net of fees.



**Rizikovost 7**

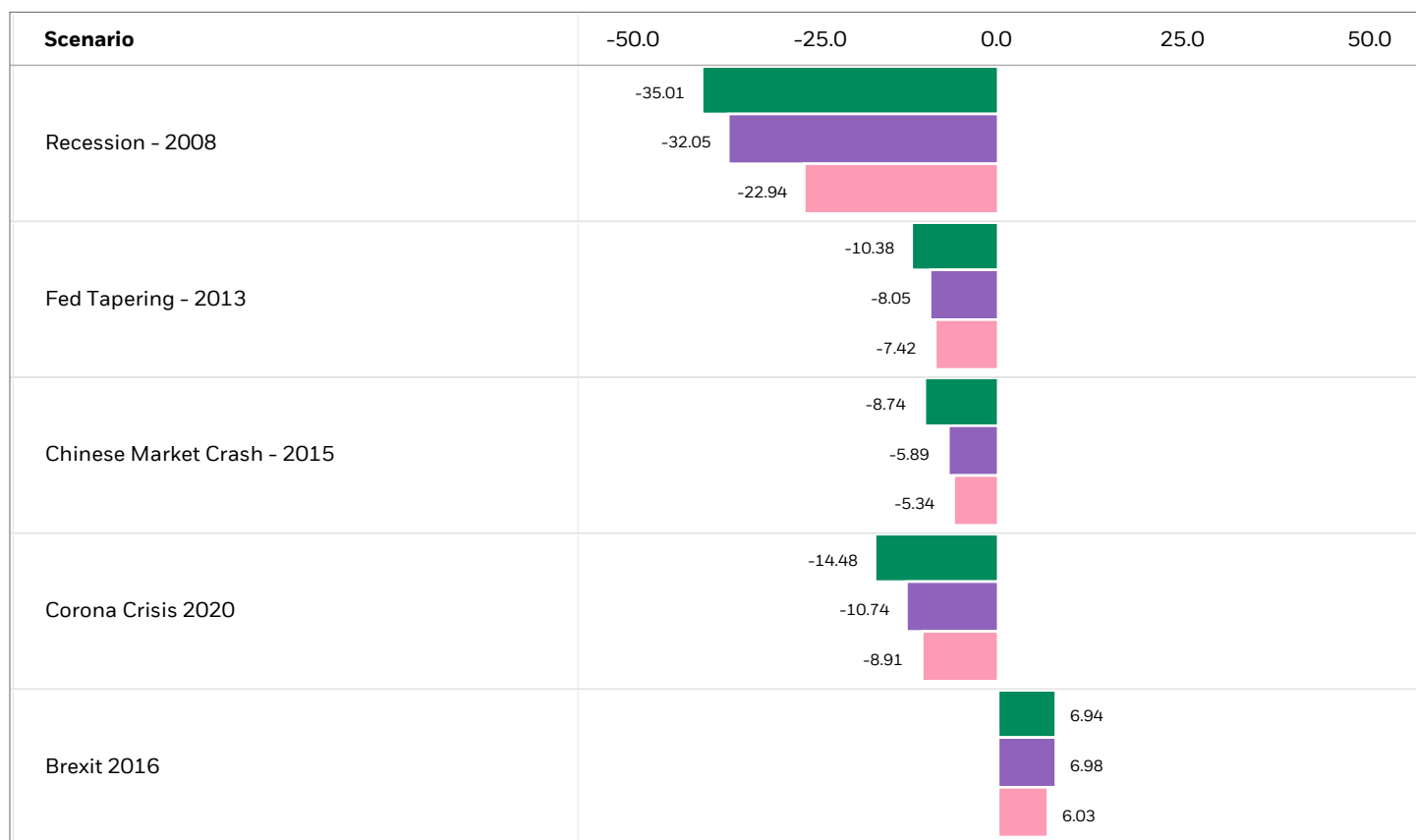
# Scenarios

# SCENARIO ANALYSIS

**There is no guarantee that stress testing will eliminate the risk of investing in a portfolio overall or any instrument within a portfolio nor that the outcome will be the same as the Profit & Loss movements depicted in the stress testing.**

## Historical Scenarios

Anticipating how your portfolio may react to different market moves can help you better prepare for what's next. This analysis helps you understand potential impacts to your portfolio during selected market events. All calculations are based on the current weights of the securities in your portfolio.



Source: BlackRock, Aladdin as of 31/01/2024, Currency: CZK

**There is no guarantee that stress testing will eliminate the risk of investing in a portfolio overall or any instrument within a portfolio nor that the outcome will be the same as the Profit & Loss movements depicted in the stress testing.**

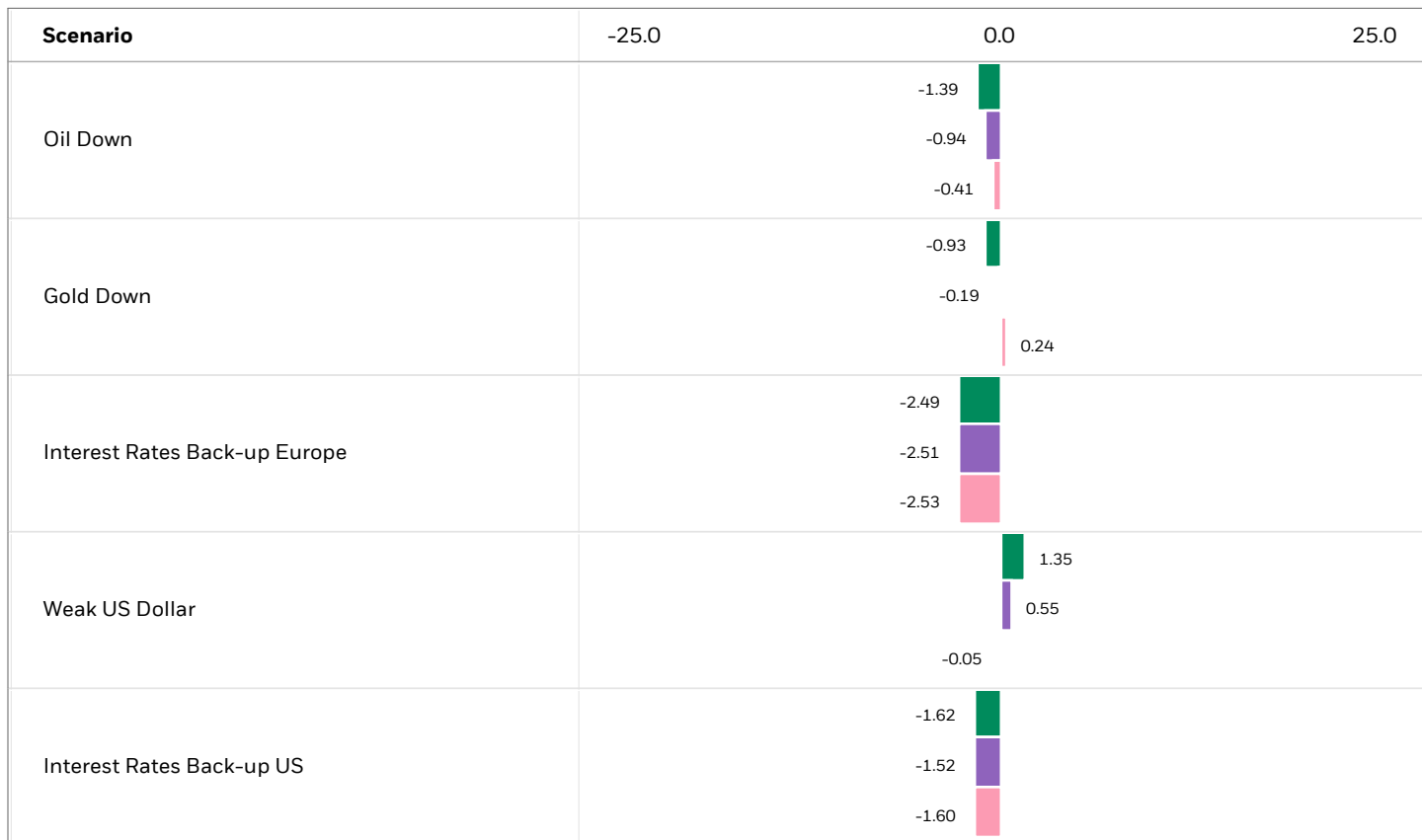
## Univariate Scenarios

Anticipating how your portfolio may react to different market moves can help you better prepare for what's next. This analysis helps you understand potential impacts to your portfolio during selected market events. All calculations are based on the current weights of the securities in your portfolio.

■ MP7
 ■ MC7
 ■ ESG7

Scenario	-25.0	0.0	25.0
Stock Market Drop Global		-5.15 -5.19 -3.99	
Equity Volatility Increase		-4.76 -4.89 -3.75	
Interest Rates Back-Up UK		-3.01 -2.84 -2.91	
Strong GBP		-4.20 -3.26 -1.78	
Stock Market Drop Europe		-7.79 -7.66 -5.82	
Rising inflation GBP		0.92 0.95 0.74	
Strong CHF		-2.16 -1.16 -0.10	
Interest Rates Back-Up Switzerland		-3.62 -3.61 -3.55	
Rising Inflation Europe		2.01 1.88 1.26	

**There is no guarantee that stress testing will eliminate the risk of investing in a portfolio overall or any instrument within a portfolio nor that the outcome will be the same as the Profit & Loss movements depicted in the stress testing.**



Source: BlackRock, Aladdin as of 31/01/2024, Currency: CZK

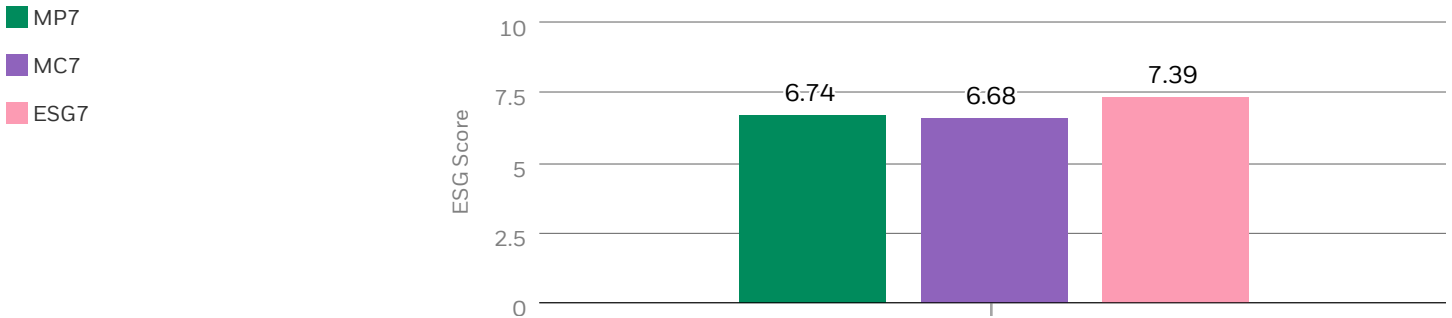
Rizikovost 7

**ESG**

# ESG

## MSCI ESG Quality Score

### OVERALL QUALITY SCORE



Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)**. The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of: 31/01/2024

### MSCI TOP & BOTTOM 5 ESG QUALITY SCORE (FUNDS ONLY)

	Fund Name	ESG Quality Score	ESG Rating
Top ESG Holdings	iShares MSCI Europe SRI UCITS ETF EUR (Acc)	9.03	AAA
	Xtrackers MSCI Japan ESG UCITS ETF 1C	8.31	AA
	Xtrackers MSCI Japan ESG UCITS ETF 1C	8.31	AA
	iShares MSCI USA SRI UCITS ETF USD (Acc)	8.00	AA
	iShares Edge MSCI Europe Multifactor UCITS ETF EUR (Acc)	7.95	AA
Bottom ESG Holdings	iShares J.P. Morgan \$ EM Bond UCITS ETF EUR Hedged (Acc)	3.94	BB
	iShares J.P. Morgan ESG \$ EM Bond UCITS ETF USD (Acc)	4.29	BBB
	iShares Core MSCI EM IMI UCITS ETF USD (Acc)	5.52	BBB
	iShares Core MSCI EM IMI UCITS ETF USD (Acc)	5.52	BBB
	iShares \$ Treasury Bond 1-3yr UCITS ETF USD (Acc)	5.72	A

Reference to the names of each security is merely for the purposes of providing and explaining the analysis and should not be construed as investment advice or investment recommendation of those securities. Please note, for funds, MSCI provides an ESG Score as long as at least 65% of the underlying are scored.

As of: 31/01/2024

**ESG COVERAGE**

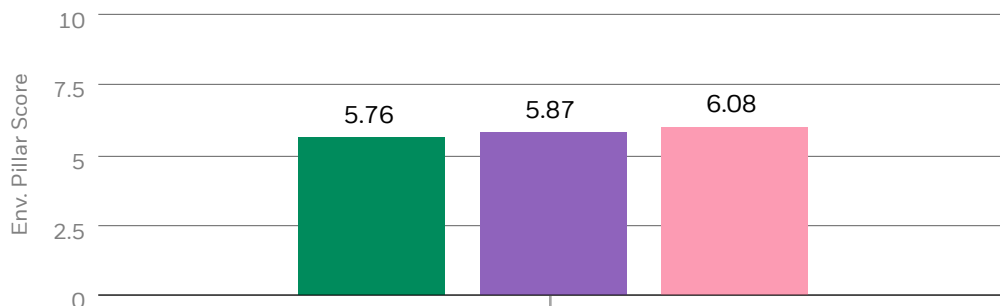
<b>Portfolio</b>	<b>Percentage</b>
MP7	74.30%
MC7	95.20%
ESG7	97.70%

Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)**. The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of: 31/01/2024

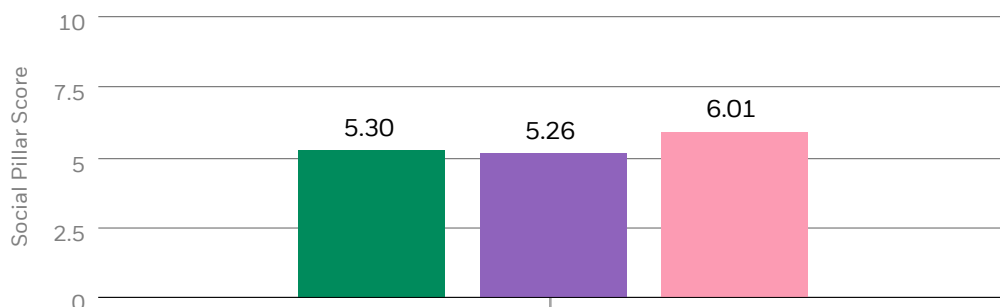
**ENVIRONMENTAL PILLAR SCORE**

- MP7
- MC7
- ESG7



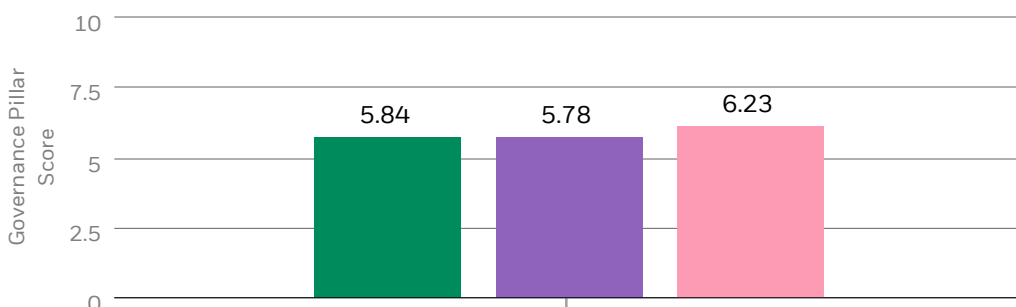
**SOCIAL PILLAR SCORE**

- MP7
- MC7
- ESG7



**GOVERNANCE PILLAR SCORE**

- MP7
- MC7
- ESG7

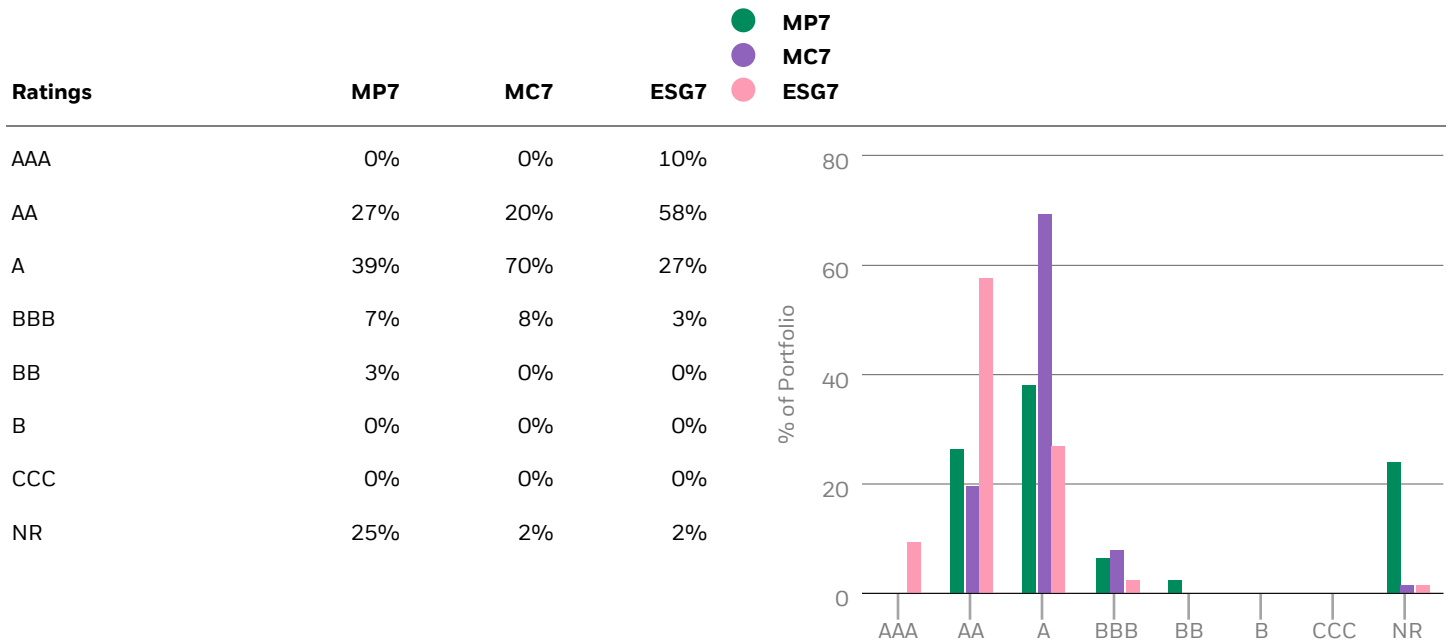


Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)**. The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of: 31/01/2024



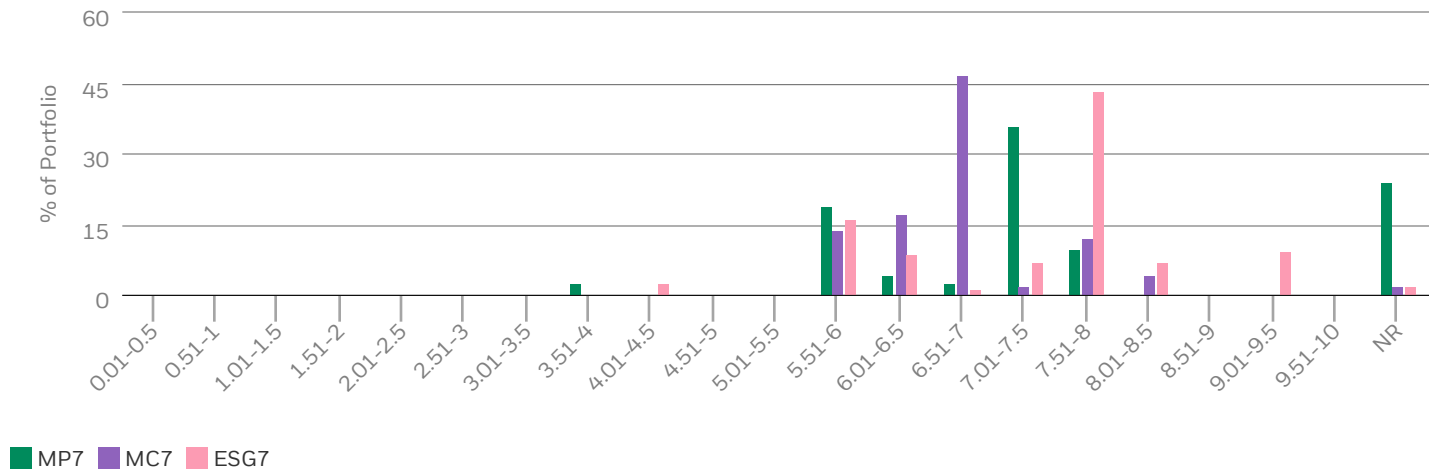
## ESG Rating Distribution



Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)**. The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of 31/12/2021

### ESG Score Distribution



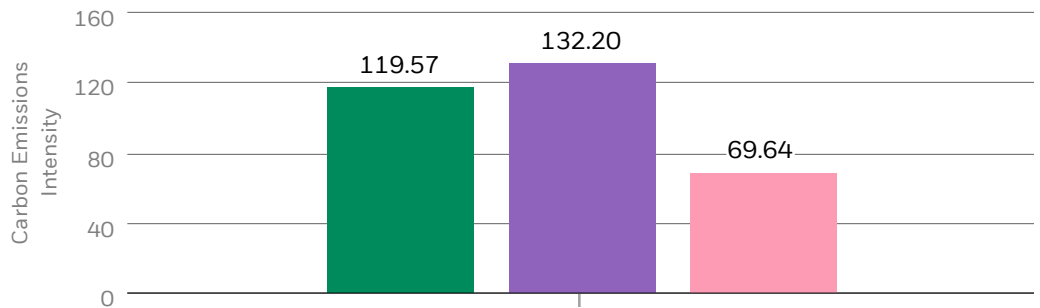
Source: Based on portfolio holdings data. For information only, subject to change. For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings). The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.  
 As of: 31/01/2024

# Carbon Emissions Intensity

Carbon emissions intensity measures a fund’s exposure to carbon-intensive companies. The figure is the sum of security weight multiplied by the security carbon intensity.

## CARBON EMISSIONS INTENSITY

- MP7
- MC7
- ESG7



Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)**. The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of: 31/01/2024

## HIGHEST & LOWEST CARBON EMISSIONS INTENSITY (FUNDS ONLY)

	Fund Name
Highest	iShares J.P. Morgan \$ EM Bond UCITS ETF EUR Hedged (Acc)
	iShares Core MSCI EM IMI UCITS ETF USD (Acc)
	iShares Core MSCI EM IMI UCITS ETF USD (Acc)
	iShares J.P. Morgan ESG \$ EM Bond UCITS ETF USD (Acc)
	Amundi Global Aggregate Green Bond UCITS ETF Acc
Lowest	iShares VII PLC - iShares Ai Govt Bond 1-3yr ETF EUR Acc
	iShares Ai Inflation Linked Govt Bond UCITS ETF EUR (Acc)
	iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)
	iShares \$ TIPS 0-5 UCITS ETF USD (Acc)
	iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)

Reference to the names of each security is merely for the purposes of providing and explaining the analysis and should not be construed as investment advice or investment recommendation of those securities.

Please note, for funds, MSCI provides an ESG Score as long as at least 65% of the underlying are scored.

As of: 31/01/2024






**CARBON EMISSIONS INTENSITY COVERAGE**

<b>Portfolio</b>	<b>Percentage</b>
MP7	65.59%
MC7	85.33%
ESG7	71.25%

Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)** . The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

As of: 31/01/2024

## Carbon Emission Equivalent

Metrics	MP7	MC7	ESG7
 Refrigerators p.a.	3,475.53	3,842.87	2,024.28
 Kilometers per car driven	636,449.61	703,718.15	370,691.58
 LCD TVs p.a.	2,829.33	3,128.37	1,647.90
 Dishwashers p.a.	1,915.09	2,117.50	1,115.42
 Water heating p.a.	595.81	658.78	347.02

Source: Based on portfolio holdings data. For information only, subject to change. **For explanations about the methodology, refer to the MSCI Fund Ratings page [www.msci.com/esg-fund-ratings](http://www.msci.com/esg-fund-ratings)** . The ratings, metrics, methodologies and scores may differ from those of other providers. Certain information ©2022 MSCI ESG Research LLC. Reproduced with permission; no further distribution.

Carbon equivalents are based on publications by Her Majesty's Department for Business, Energy & Industrial Strategy. Refer to page [www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021](http://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021)

**Rizikovost 7**

# Holdings Details

# HOLDINGS DETAILS

As of 31/01/2024

● MP7

● MC7

● ESG7

Morningstar Category % Rank 25 50 75 100

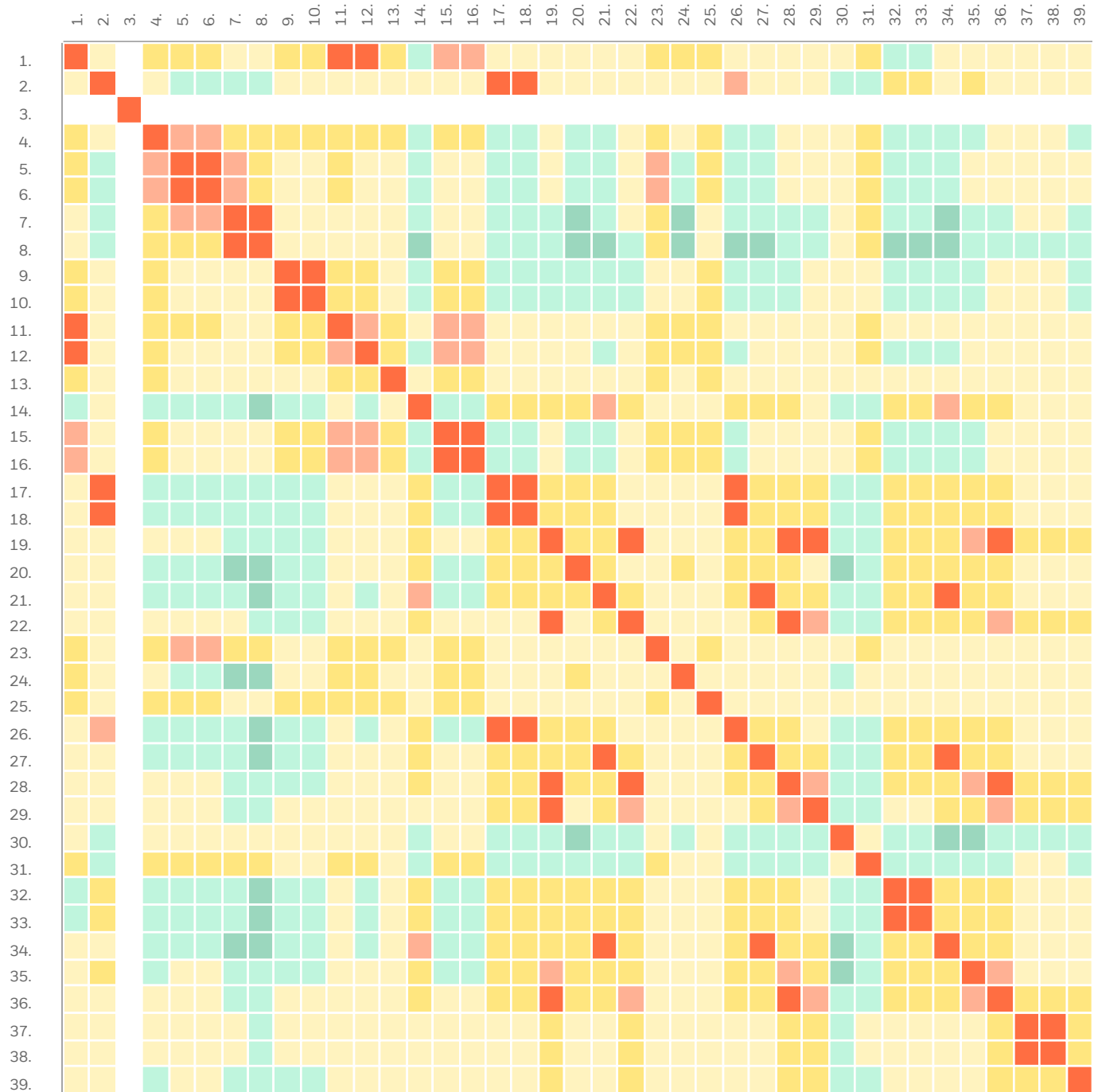
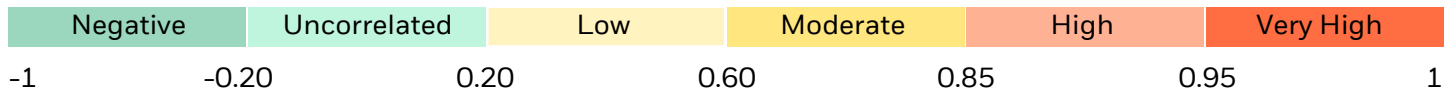
Holding	Morningstar Category	1yr Return	5yr Return	1yr Std Dev	5yr Std Dev	Portfolio Occurrence
<b>Amundi Global Aggregate Green Bond UCITS ETF Acc</b>	Global Corporate Bond	4.49%	-1.07%	11.60%	10.28%	●
<b>Amundi Index Solutions - Amundi MSCI Em Asia UCITS ETF-C EUR</b>	Asia ex-Japan Equity	-6.15%	2.56%	17.06%	19.53%	●
<b>SPDR MSCI World Small Cap UCITS ETF</b>	Global Small/Mid-Cap Equity	2.95%	6.88%	19.44%	21.56%	●
<b>VanEck Morningstar US Sustainable Wide Moat UCITS ETF</b>	US Large-Cap Blend Equity	8.21%	10.70%	16.00%	19.52%	●
<b>Xtrackers MSCI Japan ESG UCITS ETF 1C</b>	Japan Large-Cap Equity	15.13%	5.80%	11.64%	14.54%	● ●
<b>Xtrackers MSCI Japan UCITS ETF 4C EUR Hedged</b>	Other Equity	36.99%	12.74%	15.56%	17.59%	●
<b>iShares \$ Corp Bond ESG UCITS ETF USD Acc</b>	USD Corporate Bond	4.13%	-	9.43%	-	●
<b>iShares \$ High Yield Corp Bond ESG UCITS ETF USD (Acc)</b>	USD High Yield Bond	8.35%	-	7.18%	-	● ●
<b>iShares \$ TIPS 0-5 UCITS ETF USD (Acc)</b>	USD Inflation-Linked Bond	4.20%	-	2.55%	-	●
<b>iShares \$ Treasury Bond 1-3yr UCITS ETF USD (Acc)</b>	USD Government Bond - Short Term	3.90%	1.27%	2.44%	1.92%	●
<b>iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)</b>	USD Government Bond	-6.55%	-2.35%	19.28%	16.35%	● ●
<b>iShares Ai Corp Bond ESG UCITS ETF EUR (Acc)</b>	EUR Corporate Bond	5.64%	-	4.15%	-	●
<b>iShares Ai Govt Bond Climate UCITS ETF EUR (Acc)</b>	EUR Government Bond	4.12%	-	6.43%	-	●
<b>iShares Ai Inflation Linked Govt Bond UCITS ETF EUR (Acc)</b>	EUR Inflation-Linked Bond	3.14%	1.74%	5.53%	7.60%	●
<b>iShares Core FTSE 100 UCITS ETF GBP (Dist)</b>	UK Large-Cap Equity	1.95%	5.68%	10.40%	13.69%	●
<b>iShares Core Global Aggregate Bond UCITS ETF EUR Hedged (Acc)</b>	Global Bond - EUR Hedged	2.07%	-1.05%	5.91%	4.95%	● ●
<b>iShares Core MSCI EM IMI UCITS ETF USD (Acc)</b>	Global Emerging Markets Equity	-0.77%	1.85%	16.71%	18.83%	● ●
<b>iShares Core S&amp;P 500 UCITS ETF USD (Acc)</b>	US Large-Cap Blend Equity	20.46%	13.95%	13.98%	18.27%	●
<b>iShares Developed Markets Property Yield UCITS ETF EUR Hedged (Acc)</b>	Property - Indirect Other	-4.61%	-1.16%	24.31%	22.62%	●
<b>iShares Edge MSCI Europe Multifactor UCITS ETF EUR (Acc)</b>	Europe Large-Cap Blend Equity	14.58%	8.23%	10.64%	15.94%	●
<b>iShares Edge MSCI USA Minimum Volatility ESG UCITS ETF USD (Acc)</b>	US Large-Cap Blend Equity	10.93%	-	13.06%	-	●

Holding	Morningstar Category	1yr Return	5yr Return	1yr Std Dev	5yr Std Dev	Portfolio Occurrence
iShares Global High Yield Corp Bond UCITS ETF USD (Acc)	Global High Yield Bond	8.09%	2.65%	8.37%	10.66%	●
iShares J.P. Morgan \$ EM Bond UCITS ETF EUR Hedged (Acc)	Global Emerging Markets Bond - EUR Biased	3.18%	-	9.72%	-	●
iShares J.P. Morgan ESG \$ EM Bond UCITS ETF USD (Acc)	Global Emerging Markets Bond	5.34%	0.22%	9.45%	11.35%	●
iShares MSCI EM SRI UCITS ETF USD (Acc)	Global Emerging Markets Equity	-10.79%	-0.05%	17.97%	20.42%	●
iShares MSCI Europe SRI UCITS ETF EUR (Acc)	Europe Large-Cap Blend Equity	11.97%	10.51%	11.15%	15.86%	●
iShares MSCI USA SRI UCITS ETF USD (Acc)	US Large-Cap Blend Equity	14.92%	15.40%	16.32%	18.94%	●
iShares NASDAQ 100 UCITS ETF USD (Acc)	US Large-Cap Growth Equity	42.19%	20.44%	17.30%	21.81%	●
iShares Physical Gold ETC	Commodities - Precious Metals	6.60%	9.01%	13.96%	14.36%	●
iShares VII PLC - iShares Ai Govt Bond 1-3yr ETF EUR Acc	EUR Government Bond - Short Term	3.22%	-0.35%	1.77%	1.35%	●
iShares VII PLC - iShares Core MSCI Pac ex-Jpn ETF USD Acc	Pacific ex-Japan Equity	-5.59%	3.40%	18.61%	20.86%	● ●
iShares VII PLC -iShares Core MSCI EMU UCITS ETF EUR (Acc)	Eurozone Large-Cap Equity	11.17%	9.17%	11.78%	18.33%	●

**The figures shown relate to actual past performance and simulated past performance. Past performance (whether actual or simulated) is not a reliable indicator of current or future results and should not be the sole factor of consideration when selecting a product or strategy.** All actual and simulated historical performance is shown on a net basis. For stocks, funds, and alternative instruments with at least five years of performance history, the actual returns are used within the simulated past performance calculation on a portfolio level. Where a stock, fund or alternative instrument has less than five years actual historical performance, simulated past performance will be used from the date where there is no actual past performance history for that instrument available. For all bonds, the whole period is simulated. Please refer to the table "Holdings" in this report for which instrument a simulated past performance was used to calculate portfolio performance. For the simulation, a parametric returns methodology is applied. The parametric returns methodology attaches a set of factors to individual instruments. Actual inputs (including indices, other instruments, yields, spreads etc.) for these factor returns are then combined to form the parametric simulated performance for that instrument. Details can be found in the Parametric Simulated Performance section at the back of this report. Further information is available upon request. Data Frequency: Monthly. Index performance returns do not reflect any management fees, transaction costs or expenses. Indices are unmanaged and one cannot invest directly in an index. This information demonstrates, in part, BlackRock's Risk/Return analysis. This material is provided for informational purposes only and is not intended to be investment advice or a recommendation to take any particular investment action.



# Correlation Matrix



1. Amundi Global Aggregate Green Bond UCITS ETF Acc	15. iShares Core Global Aggregate Bond UCITS ETF EUR Hedged (Acc)	29. iShares NASDAQ 100 UCITS ETF USD (Acc)
2. Amundi Index Solutions - Amundi MSCI Em Asia UCITS ETF-C EUR	16. iShares Core Global Aggregate Bond UCITS ETF EUR Hedged (Acc)	30. iShares Physical Gold ETC
3. CZECH KORUNA	17. iShares Core MSCI EM IMI UCITS ETF USD (Acc)	31. iShares VII PLC - iShares Ai Govt Bond 1-3yr ETF EUR Acc
4. iShares \$ Corp Bond ESG UCITS ETF USD Acc	18. iShares Core MSCI EM IMI UCITS ETF USD (Acc)	32. iShares VII PLC - iShares Core MSCI Pac ex-Jpn ETF USD Acc
5. iShares \$ High Yield Corp Bond ESG UCITS ETF USD (Acc)	19. iShares Core S&P 500 UCITS ETF USD (Acc)	33. iShares VII PLC - iShares Core MSCI Pac ex-Jpn ETF USD Acc
6. iShares \$ High Yield Corp Bond ESG UCITS ETF USD (Acc)	20. iShares Developed Markets Property Yield UCITS ETF EUR Hedged (Acc)	34. iShares VII PLC -iShares Core MSCI EMU UCITS ETF EUR (Acc)
7. iShares \$ TIPS 0-5 UCITS ETF USD (Acc)	21. iShares Edge MSCI Europe Multifactor UCITS ETF EUR (Acc)	35. SPDR MSCI World Small Cap UCITS ETF
8. iShares \$ Treasury Bond 1-3yr UCITS ETF USD (Acc)	22. iShares Edge MSCI USA Minimum Volatility ESG UCITS ETF USD (Acc)	36. VanEck Morningstar US Sustainable Wide Moat UCITS ETF
9. iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)	23. iShares Global High Yield Corp Bond UCITS ETF USD (Acc)	37. Xtrackers MSCI Japan ESG UCITS ETF 1C
10. iShares \$ Treasury Bond 20+yr UCITS ETF USD (Acc)	24. iShares J.P. Morgan \$ EM Bond UCITS ETF EUR Hedged (Acc)	38. Xtrackers MSCI Japan ESG UCITS ETF 1C
11. iShares Ai Corp Bond ESG UCITS ETF EUR (Acc)	25. iShares J.P. Morgan ESG \$ EM Bond UCITS ETF USD (Acc)	39. Xtrackers MSCI Japan UCITS ETF 4C EUR Hedged
12. iShares Ai Govt Bond Climate UCITS ETF EUR (Acc)	26. iShares MSCI EM SRI UCITS ETF USD (Acc)	
13. iShares Ai Inflation Linked Govt Bond UCITS ETF EUR (Acc)	27. iShares MSCI Europe SRI UCITS ETF EUR (Acc)	
14. iShares Core FTSE 100 UCITS ETF GBP (Dist)	28. iShares MSCI USA SRI UCITS ETF USD (Acc)	

# PARAMETRIC SIMULATED PERFORMANCE

In order to display in this report past performance of a given portfolio allocation for any complete measurement period of five years (a “**Performance Period**”), we may need to approximate past performance on a portfolio level. Where consistent actual returns for the underlying instruments (with the exception of bonds) are available we use those as inputs for the portfolio performance calculation. Otherwise we simulate past performance by approximating historic instrument returns, using BlackRock Solutions’ Aladdin® multi-factor parametric return simulation methodology, as described below.

The method of parametric simulated performance as outlined below is subject to certain limitations. The results of any parametric simulated performance shown in any Performance Period cannot account for the impact of all economic, market and other factors on a given investment portfolio. Unlike actual portfolio outcomes, the results shown in any parametric simulated performance cannot reflect all actual trading, liquidity constraints, fees, expenses, taxes and other factors that could impact investment returns. The Aladdin portfolio risk modelling process may rely on certain assumptions using available data for any Performance Period and may be subject to change.

## General method and assumptions

For past portfolio performance, the given portfolio allocation can consist of the following asset classes: (i) stocks, (ii) bonds, (iii) cash (assuming 0% interest), (iv) alternatives, and (v) funds (composed of any or all of these asset classes).

We assume that the given portfolio allocation at the time of upload into Portfolio 360 has been static over a Performance Period. This means the underlying portfolio has been previously rebalanced to the same given allocation on a quarterly basis in the past. We do not take into account an active investment or trading strategy with changes in weightings or instruments on the portfolio level.

For bonds, we will use only parametric simulated returns for any Performance Period where we rely on the Aladdin® input systematic risk factors from the Aladdin® portfolio risk modelling process, such as yield curve and credit spreads. Further details can be found in the “Risk Factor Summary”.

For stocks, we will use actual past returns (where available) and parametric simulated returns for periods (where actual returns are not available), in any Performance Period. Thus, for stocks, a Performance Period may include a mix of actual and parametric simulated returns.

For funds, the method we use will depend on the underlying asset class exposures of the relevant fund. In the case of any underlying stocks held by the fund, we will use the applicable method for equity, as described below. In the case of any underlying bonds held by the fund, we will use the applicable method for bonds, as described below.

Parametric simulated returns for an instrument in any Performance Period cannot capture idiosyncratic fluctuations (e.g. a company’s specific stock move on a quarterly earnings announcement day) and thus the parametric simulated returns for an instrument should only be seen through a portfolio performance lens.

For individual instruments, we express parametric simulated asset returns in any Performance Period using a standard linear factor model as vector of factor returns with asset exposures. Factor returns are expressed either as ratios or absolute differences. Equities, foreign exchange, and other price-based factors are expressed in ratio

terms. We assume in the underlying statistical models that prices are lognormally distributed. Daily interest rate changes and noncorporate spread changes are expressed in absolute difference terms and we assume that arithmetic differences in levels are normally distributed. Because parametric simulated asset returns are calculated as a weighted sum of the underlying factor returns, it follows that asset returns are assumed to be normally distributed. We calculate weekly and monthly factor returns by linking daily returns. The normal distribution model of return assumption allows us to simulate returns but actual returns of most instruments are not always perfectly aligned to this distribution model.

## **Bonds**

As outlined above we use only parametric simulated returns for bonds (even when actual prices are available) based on the available input systematic risk factors from the Aladdin® portfolio risk modelling process, such as interest rate yield curves and credit spreads. We will use the interest rate levels that are readily available in the market, and spread factors are estimated on a daily basis by the fixed income risk models, leveraging a calibration universe which is generally a fixed income index. The idiosyncratic movements of an individual bond (e.g. price changes due to market speculation of a rating change of a particular instrument) are not captured, nor are defaults of specific issuers reflected with subsequent actual recovery amounts or losses. However, we believe that the advantage of this method is that it seeks to capture consistently the exposure of bond prices to factors in a portfolio irrespective of the reducing maturity of the individual bond over time. Hence the parametric simulation methodology for bonds should only be seen through a portfolio performance lens in any Performance Period where due to the diversification effect of less than perfect correlated returns the impact of idiosyncratic movements of an individual instrument may only constitute a minor driver for the overall portfolio performance.

For bonds, BlackRock calculates key rate durations as exposures to key interest rates in the government curves. The parametric simulated return model calculates the hypothetical return for a security based on security exposures and risk factor changes. Further details can be found in the “Risk Factor Summary”. A parametric simulated return calculation for a period of time can include the time return, a deterministic component of return due to the passage of time assuming that all systematic market risk factors in the economy remain unchanged (often referred to as “the nominal scenario”). The time return in the parametric simulated return model is calculated based on the horizon rate of return. For those securities that trade in price space instead of spread space such as distressed fixed income securities, the parametric simulated return of the security is calculated from the return of price-based risk factor and the beta to the factor.

## **Equity**

Actual past returns for each stock within a portfolio are used where available. For periods before actual returns are available, such as before the IPO of a company, we estimate returns using the BlackRock Fundamental Risk for Equities (“BFRE”) model, which uses company fundamentals in addition to historical market data to describe the risk profile of equity assets and portfolios. The inputs to the model include balance sheet variables, income statements, analyst estimates, country and industry of business and historical market data. Further details can be found in the “Risk Factor Summary”. The resulting exposures of a given stock to factors in the Aladdin® risk model and the return of each of the factors within the risk model are used to estimate that stock’s return.

Unlike using returns of a stock’s industry peer group or a market index, BFRE takes into account a range of factor exposures to derive a return estimate. However, this methodology cannot capture the idiosyncratic movements of an individual stock (e.g. a company’s specific stock move on a quarterly earnings announcement date). The parametric simulation method reduces distortions from an individual stock return and uses only the systematic drivers comprised of market, country, industry, currency and style factors. Further details can be found in the “Risk Factor Summary”. The method of Parametric simulated stock returns should only be seen through a portfolio performance lens in any Performance Period where due to the diversification effect of less than perfect correlated returns the impact of idiosyncratic movements of an individual instrument may only constitute a minor driver for the overall portfolio performance.

**Funds & Alternatives**

For funds, we will use actual past returns for periods where actual fund prices are available. For periods where actual performance is not available (e.g. before the launch date of a fund) we will use parametric simulated returns. This applies also to alternatives e.g. hedge funds or commodity products where we will follow the same calculation principles used for the “Equity” method (as outlined above) and apply risk factors from the Aladdin® portfolio risk modelling process we consider applicable to alternative investments. Further details can be found in the “Risk Factor Summary”.

As we apply the same calculation principles for alternatives (such as hedge funds or commodities) as the Equity methodology, we are not able to capture the idiosyncratic movements of an individual alternative instrument (e.g. the default of one private equity fund holding). The parametric simulation method may reduce distortions from an individual alternative instrument return and uses only the systematic drivers. Further details can be found in the “Risk Factor Summary”. Parametric simulated returns for alternatives should only be seen through a portfolio performance lens in any Performance Period where due to the diversification effect of less than perfect correlated returns the impact of idiosyncratic movements of an individual instrument may only constitute a minor driver for the overall portfolio performance.

To capture a fund’s risk factor exposures, Aladdin® uses what we consider to be the best available data, which can vary across asset classes, regions and fund types. With frequently disclosed and transparent holdings, many funds can be modelled through a look-through approach driven by portfolio holdings. For other funds, the model leverages fund category, asset and sector allocation, fund return history provided by third party data vendor and fund factsheets from the fund manager’s website.

Once a fund’s risk factor exposures have been captured, the parametric simulated returns are calculated using the same methods as described in the “Bonds” and “Equity” sections above.

The methods and limitations for parametric simulated fund return follow those for the underlying asset classes and thus also apply consequently for funds. Idiosyncratic movements of the underlying fund holdings plus those due to active fund investment strategies are not captured. Parametric simulated fund returns should only be seen through a portfolio performance lens in any Performance Period where due to the diversification effect of less than perfect correlated returns the impact of idiosyncratic movements of an individual instrument may only constitute a minor driver for a portfolio performance.

Further information is available upon request at [portfoliosupport@blackrock.com](mailto:portfoliosupport@blackrock.com).

# Appendix 1 – Modelling Methodology for Ex-Ante Analysis

Portfolio 360™ leverages Aladdin® portfolio risk modelling process to capture the systematic risk factors that typically drive a fund's risk and return profile. The process utilises a combination of fund holdings disclosures, historical returns and fund summaries such as fact sheets and fund commentaries.

As described in more detail below, the specific modelling process applied to a fund will depend on the asset class as well as the investment style (e.g. active, passive).

**Equity Funds:** For all equity index mutual funds, ETFs and European domiciled active equity funds with an AUM > \$100mn USD, fund holdings disclosures (where available) are used to model the funds' risk exposures. If unavailable, historical return series, and information found on fact sheets and fund commentaries will be used in order to regress the funds' returns to a series of appropriate factors.

For all other registered investment company products, the holdings of the Morningstar Category benchmark are used to model the funds' risk exposures.

**Fixed Income Funds:** For all fixed income index mutual funds and ETFs, fund holdings disclosures are used to model the funds' risk exposures.

European domiciled active fixed income funds with an AUM > \$100 USD have been modelled using a combination of fund holdings disclosures, fund asset allocations and returns-based style analysis. These results are validated with statistical analysis.

For all other fixed income funds, the holdings of the Morningstar Category benchmark are used to model the funds' risk exposures.

**Multi-asset Funds:** Multi-asset funds are modelled based on the funds' exposure to major asset classes. A combination of fund holdings disclosures, fund asset allocations and returns-based style analysis is used to derive each fund's asset class exposure. These results are validated with statistical analysis.

**Alternatives Funds:** Alternative funds are modelled using Aladdin's alternative asset risk factors based on the fund type and the fund strategy. Alternative funds are mapped to a set of primary, secondary and idiosyncratic risk factors. A combination of fund strategy disclosures, fund asset allocations and returns-based style analysis is used to derive each fund's risk exposures.

Factors are **fundamental** and **technical** characteristics of asset returns. The BlackRock Aladdin® Risk Factor Models decompose the overall risk/return of a financial asset into the underlying factor drivers. Risk models used are: BlackRock Fundamental Risk for Equities Model (BFRE World), BlackRock Fixed Income Risk Factor Model and BlackRock Alternatives Risk Factor Model. As a default, we measure risk in one standard deviation annualised volatility or 84% confidence annualised analytical VaR, with a one year risk horizon. 72 monthly observations are used, with a half life of 36 months (decay: 0.9809).

The risk contribution of any portfolio component is equal to the portfolio exposure to that component multiplied by its volatility, multiplied by the correlation to the portfolio. Portfolio risk is the linear sum of contributions from all components.

# Appendix 2 – Risk Factor Summary

Factors are **fundamental** and **technical** characteristics of asset returns. The BlackRock Aladdin® Risk Factor Models decompose the overall risk/return of a financial asset into the underlying factor drivers. Risk models used are: BlackRock Fundamental Risk for Equities Model (BFRE World), BlackRock Fixed Income Risk Factor Model and BlackRock Alternatives Risk Factor Model. As a default, we measure risk in one standard deviation annualised volatility or 84% confidence annualised analytical VaR, with a one year risk horizon. 72 monthly observations are used, with a half life of 36 months (decay: 0.9809).

The risk contribution of any portfolio component is equal to the portfolio exposure to that component multiplied by its volatility, multiplied by the correlation to the portfolio. Portfolio risk is the linear sum of contributions from all components.

**Equity Factors Equity Market Factor:** Contribution to portfolio risk arising from a portfolio's exposure to the returns across the equity market. This factor captures the risk associated with general equity market movements.

**Equity Style Factor:** Contribution to portfolio risk arising from a portfolio's exposure to the returns of factors such as value, growth, size and momentum. Style factors are constructed from company fundamentals, analyst estimate data and historical market data. These are modelled through the BlackRock Fundamental Risk for Equities Model (BFRE):

- Size: Underlying companies' size of based on market capitalisation & fundamental data
- Volatility: Various measures of historical volatility & historical beta
- Reversal: One month return capturing short-term overreaction
- Momentum: Longer-term trend in stock prices over the last year
- Value: Identifies "cheap" vs. "expensive" stocks relative to fundamentals
- Earnings Yield: Earnings-to-price & related measures
- Dividend Yield: Dividend-to-price
- Profitability: Return on equity (ROE) & related measures
- Growth: Historical growth in assets & sales
- Leverage: Various measures of indebtedness

**Equity Sector Factor:** Contribution to portfolio risk arising from a portfolio's exposure to the returns of sector-specific equities, adjusting for market, country and style effects.

**Equity Country Factor:** Contribution to portfolio risk arising from a portfolio's exposure to returns of country-specific equities, adjusted for market, sector and style effects.

**Equity Specific Factor:** Contribution to portfolio risk arising from a portfolio's exposure to stock specific idiosyncratic risk not captured by the common risk factors.

## Fixed Income Factors

**Rates Factor:** Contribution to portfolio risk arising from a portfolio's exposure to the risk associated with changes in yield curves. This can be at a high level (overall exposure) or broken down by different yield curves

**Inflation Factor:** Contribution to portfolio risk arising from a portfolio's exposure to the risk associated with

changes in inflation curves. This can be at a high level (overall exposure) or broken down by different inflation curves.

**Spreads Factor:** Contribution to portfolio risk arising from a portfolio's exposure to credit spreads factor. Credit spreads factors capture risk associated with investment grade, high yield and distressed debt credit spreads over benchmark interest rates.

**FX Factors:** Contribution to portfolio risk arising from a portfolio's exposure to the risk associated with changes in foreign exchange rates.

**Alternatives Factors:** Contribution to portfolio risk arising from a portfolio's exposure to alternative assets and strategies including Private Equity, Infrastructure Equity, Commodities, Hedge Funds and Real Estate.



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