

MAY 2019

STOXX[®] INDEX METHODOLOGY GUIDE (PORTFOLIO BASED INDICES)



1. INTRODUCTION TO THE STOXX INDEX GUIDES	7	5.11. NUMBER OF SHARES	19
2. CHANGES TO THE GUIDE BOOK	8	5.12. FREE-FLOAT FACTORS	20
2.1. HISTORY OF CHANGES TO THE STOXX EQUITY METHODOLOGY GUIDE	8	5.13. WEIGHTING FACTOR	20
3. GENERAL PRINCIPLES	12	5.14. FREE-FLOAT MARKET CAPITALIZATION	20
3.1. INDEX RATIONALE	12	5.15. CAPPING FACTORS	20
3.2. METHODOLOGY REVIEW POLICIES	12	5.15.1. WEIGHTING CAP FACTORS	20
3.3. INDEX TERMINATION POLICY	12	5.15.2. LIQUIDITY SCALING FACTORS	21
4. COVERAGE	13	6. STOXX TOTAL MARKET INDICES (TMI)	22
4.1. STOXX GLOBAL EQUITY STOCK UNIVERSE	13	6.1. TOTAL MARKET COUNTRY INDICES	22
4.2. STOXX INVESTABLE UNIVERSE	13	6.1.1. OVERVIEW	22
4.3. COUNTRY AND REGIONAL CLASSIFICATIONS	14	6.1.2. INDEX REVIEW	22
4.3.1. OVERVIEW	14	6.1.3. ONGOING MAINTENANCE	23
4.3.2. COUNTRY SELECTION CRITERIA	14	6.2. TOTAL MARKET REGIONAL INDICES	25
4.3.3. REGIONAL SPECIFICS	16	6.2.1. OVERVIEW	25
5. INDEX CHARACTERISTICS	17	6.2.2. INDEX REVIEW	26
5.1. MARKET CAPITALIZATION-WEIGHTED INDICES AND PRICE-WEIGHTED INDICES	17	6.2.3. ONGOING MAINTENANCE	26
5.2. SELECTION LISTS	17	6.3. TOTAL MARKET SIZE INDICES	27
5.3. INDEX REVIEW	17	6.3.1. OVERVIEW	27
5.4. BUFFERS	18	6.3.2. INDEX REVIEW	27
5.5. LIQUIDITY	18	6.3.3. ONGOING MAINTENANCE	28
5.6. STOCK CHARACTERISTICS	18	7. STOXX BENCHMARK INDICES (BMI)	29
5.7. COUNTRY AND LISTING	19	7.1. STOXX GLOBAL INDICES	29
5.8. CURRENCY	19	7.1.1. OVERVIEW	29
5.9. INDUSTRY CLASSIFICATION BENCHMARK (ICB) CODE19	19	7.1.2. INDEX REVIEW	30
5.10. CORPORATE ACTIONS	19	7.1.3. ONGOING MAINTENANCE	32
		7.2. STOXX GLOBAL 1800 AND DERIVED INDICES	33
		7.2.1. OVERVIEW	33
		7.2.2. INDEX REVIEW	33
		7.2.3. ONGOING MAINTENANCE	35
		7.3. SIZE INDICES BASED ON THE STOXX GLOBAL INDICES	36
		7.3.1. OVERVIEW	36
		7.3.2. INDEX REVIEW	36
		7.3.3. ONGOING MAINTENANCE	38
		7.4. SECTOR INDICES BASED ON THE STOXX GLOBAL INDICES	39
		7.4.1. OVERVIEW	39
		7.4.2. INDEX REVIEW	39
		7.4.3. ONGOING MAINTENANCE	40

7.5. STOXX EUROPE 600 AND EURO STOXX SUPERSECTOR INDICES: 30% / 15% CAPS	41	9.6. STOXX CANADA 60	63
7.5.1. OVERVIEW	41	9.6.1. OVERVIEW	63
7.5.2. INDEX REVIEW	41	9.6.2. INDEX REVIEW	63
7.5.3. ONGOING MAINTENANCE	42	9.6.3. ONGOING MAINTENANCE	64
7.6. STOXX REGIONAL REAL ESTATE INDICES: 20% CAPS	43	10. STOXX DIVIDEND INDICES	65
7.6.1. OVERVIEW	43	10.1. STOXX SELECT DIVIDEND INDICES	65
7.6.2. INDEX REVIEW	43	10.1.1. OVERVIEW	65
7.6.3. ONGOING MAINTENANCE	43	10.1.2. INDEX REVIEW	65
7.7. STOXX EMERGING MARKETS 800 LO	44	10.1.3. ONGOING MAINTENANCE	69
7.7.1. OVERVIEW	44	10.2. STOXX ASEAN-FIVE SELECT DIVIDEND 50	71
7.7.2. INDEX REVIEW	44	10.2.1. OVERVIEW	71
7.7.3. ONGOING MAINTENANCE	44	10.2.2. INDEX REVIEW	71
8. STOXX EQUAL WEIGHT INDICES	46	10.2.3. ONGOING MAINTENANCE	71
8.1. STOXX EQUAL WEIGHT INDICES	46	10.3. STOXX ASEAN SELECT DIVIDEND 30	73
8.1.1. OVERVIEW	46	10.3.1. OVERVIEW	73
8.1.2. INDEX REVIEW	46	10.3.2. INDEX REVIEW	73
8.1.3. ONGOING MAINTENANCE	46	10.3.3. ONGOING MAINTENANCE	74
9. STOXX BLUE-CHIP INDICES	48	10.4. STOXX MAXIMUM DIVIDEND INDICES	75
9.1. STOXX GLOBAL AND COUNTRY BLUE-CHIP INDICES	48	10.4.1. OVERVIEW	75
9.1.1. OVERVIEW	48	10.4.2. INDEX REVIEW	75
9.1.2. INDEX REVIEW	49	10.4.1. ONGOING MAINTENANCE	77
9.1.3. ONGOING MAINTENANCE	52	10.5. EURO STOXX QUALITY DIVIDEND 50	78
9.2. EURO STOXX 50	54	10.5.1. OVERVIEW	78
9.2.1. OVERVIEW	54	10.5.2. INDEX REVIEW	78
9.2.2. INDEX REVIEW	54	10.5.3. ONGOING MAINTENANCE	81
9.2.3. ONGOING MAINTENANCE	55	11. STOXX OPTIMISED INDICES	82
9.3. STOXX REGIONAL BLUE-CHIP INDICES	57	11.1. STOXX OPTIMISED INDICES BASED ON STOXX EUROPE 600	82
9.3.1. OVERVIEW	57	11.1.1. OVERVIEW	82
9.3.2. INDEX REVIEW	57	11.1.2. INDEX REVIEW	82
9.3.3. ONGOING MAINTENANCE	58	11.1.3. ONGOING MAINTENANCE	83
9.4. STOXX GLOBAL 150	60	11.2. STOXX OPTIMISED COUNTRY INDICES	84
9.4.1. OVERVIEW	60	11.2.1. OVERVIEW	84
9.4.2. INDEX REVIEW	60	11.2.2. INDEX REVIEW	84
9.4.3. ONGOING MAINTENANCE	60	11.2.3. ONGOING MAINTENANCE	85
9.5. STOXX BALKAN 50 EQUAL WEIGHT	61	12. STOXX STYLE INDICES	86
9.5.1. OVERVIEW	61	12.1. STOXX TM STYLE INDICES	86
9.5.2. INDEX REVIEW	61	12.1.1. OVERVIEW	86
9.5.3. ONGOING MAINTENANCE	62		

12.1.2. INDEX REVIEW	86	13.7. STOXX LOW CARBON	108
12.1.3. ONGOING MAINTENANCE	88	13.7.1. OVERVIEW	108
12.2. STOXX STRONG STYLE INDICES	89	13.7.2. INDEX REVIEW	108
12.2.1. OVERVIEW	89	13.7.3. ONGOING MAINTENANCE	112
12.2.2. INDEX REVIEW	89	13.8. STOXX CLIMATE IMPACT AND CLIMATE AWARENESS	113
12.2.3. ONGOING MAINTENANCE	91	13.8.1. OVERVIEW	113
12.3. STOXX STRONG QUALITY	92	13.8.2. INDEX REVIEW	114
12.3.1. OVERVIEW	92	13.8.3. ONGOING MAINTENANCE	116
12.3.2. INDEX REVIEW	92		
12.3.3. ONGOING MAINTENANCE	93	14. STOXX SUSTAINABILITY INDICES	117
12.4. STOXX STRONG BALANCE SHEET	94	14.1. STOXX EUROPE SUSTAINABILITY INDICES	117
12.4.1. OVERVIEW	94	14.1.1. OVERVIEW	117
12.4.2. INDEX REVIEW	94	14.1.2. INDEX REVIEW	117
12.4.3. ONGOING MAINTENANCE	95	14.1.3. ONGOING MAINTENANCE	118
		14.2. STOXX EUROPE SUSTAINABILITY EX AGTAF/ EX AGTAF	119
13. STOXX THEME INDICES	96	14.2.1. OVERVIEW	119
13.1. STOXX EUROPE IPO INDICES	96	14.2.2. INDEX REVIEW	119
13.1.1. OVERVIEW	96	14.2.3. ONGOING MAINTENANCE	119
13.1.2. INDEX REVIEW	96	14.3. STOXX SUSTAINABILITY BLUE-CHIPS	120
13.1.3. ONGOING MAINTENANCE	96	14.3.1. OVERVIEW	120
13.2. STOXX EUROPE FOOTBALL INDEX	97	14.3.2. INDEX REVIEW	120
13.2.1. OVERVIEW	97	14.3.3. ONGOING MAINTENANCE	120
13.2.2. INDEX REVIEW	97	14.4. STOXX ESG IMPACT INDICES	121
13.2.3. ONGOING MAINTENANCE	97	14.4.1. OVERVIEW	121
13.3. STOXX GLOBAL INFRASTRUCTURE INDICES	98	14.4.2. INDEX REVIEW	121
13.3.1. OVERVIEW	98	14.4.3. ONGOING MAINTENANCE	122
13.3.2. INDEX REVIEW	98	14.5. STOXX REGIONAL INDUSTRY NEUTRAL ESG AND STOXX	
13.3.3. ONGOING MAINTENANCE	99	REGIONAL EXCLUDING TOBACCO INDUSTRY NEUTRAL ESG	
13.4. STOXX GLOBAL BROAD INFRASTRUCTURE	101	INDICES	123
13.4.1. OVERVIEW	101	14.5.1. OVERVIEW	123
13.4.2. INDEX REVIEW	101	14.5.2. INDEX REVIEW	123
13.4.3. CAPPING PROCEDURE	102	14.5.3. ONGOING MAINTENANCE	126
13.4.4. ONGOING MAINTENANCE	103	14.6. STOXX EUROPE 600 ESG-X INDEX	127
13.5. STOXX GLOBAL 3D PRINTING INDEX FAMILY	104	14.6.1. OVERVIEW	127
13.5.1. OVERVIEW	104	14.6.2. INDEX REVIEW	127
13.5.2. INDEX REVIEW	104	14.6.3. ONGOING MAINTENANCE	128
13.5.3. ONGOING MAINTENANCE	105	14.7. STOXX BENCHMARK ESG-X INDICES	129
13.6. STOXX ACTIVIST INDEX	106	14.7.1. OVERVIEW	129
13.6.1. OVERVIEW	106	14.7.2. INDEX REVIEW	130
13.6.2. INDEX REVIEW	106	14.7.3. ONGOING MAINTENANCE	131
13.6.3. ONGOING MAINTENANCE	107		
		15. STOXX FAITH-BASED INDICES	133

15.1. STOXX EUROPE CHRISTIAN INDEX	133	16.7.2. STOXX LOW CARBON DIVERSIFICATION SELECT INDICES	156
15.1.1. OVERVIEW	133	16.7.2.1. OVERVIEW	156
15.1.2. INDEX REVIEW	133	16.7.2.1. INDEX REVIEW	156
15.1.3. ONGOING MAINTENANCE	133	16.7.2.1. ONGOING MAINTENANCE	158
16. STOXX RISK BASED INDICES	134		
16.1. STOXX MINIMUM VARIANCE AND MINIMUM VARIANCE UNCONSTRAINED INDICES	134	16.8. EURO STOXX ESG-X & EX NUCLEAR POWER SINGLE FACTOR INDICES	159
16.1.1. OVERVIEW	134	16.8.1. OVERVIEW	159
16.1.2. INDEX REVIEW	134	16.8.2. INDEX REVIEW	159
16.1.3. ONGOING MAINTENANCE	137	16.8.3. ONGOING MAINTENANCE	165
16.2. STOXX CHINA A 900 MINIMUM VARIANCE UNCONSTRAINED AM	138	16.9. EURO STOXX ESG-X & EX NUCLEAR POWER MINIMUM VARIANCE UNCONSTRAINED INDEX	166
16.2.1. OVERVIEW	138	16.9.1. OVERVIEW	166
16.2.2. INDEX REVIEW	138	16.9.2. INDEX REVIEW	166
16.2.3. ONGOING MAINTENANCE	138	16.9.3. ONGOING MAINTENANCE	169
16.3. STOXX LOW RISK WEIGHTED	140	17. STOXX EXPOSURE INDICES	170
16.3.1. OVERVIEW	140	17.1. STOXX TRUE EXPOSURE INDICES	170
16.3.2. INDEX REVIEW	140	17.1.1. OVERVIEW	170
16.3.3. ONGOING MAINTENANCE	140	17.1.2. INDEX REVIEW	170
16.4. STOXX EUROPE LOW BETA HIGH DIVIDEND 50	142	17.1.3. ONGOING MAINTENANCE	171
16.4.1. OVERVIEW	142	17.1.4. EXPOSURE PARAMETER	171
16.4.2. INDEX REVIEW	142	17.2. STOXX INTERNATIONAL EXPOSURE INDICES	176
16.4.3. ONGOING MAINTENANCE	143	17.2.1. OVERVIEW	176
16.5. STOXX SHARPE RATIO INDICES	144	17.2.2. INDEX REVIEW	176
16.5.1. OVERVIEW	144	17.2.3. ONGOING MAINTENANCE	177
16.5.2. INDEX REVIEW	144	17.2.4. EXPOSURE PARAMETER	177
16.5.3. ONGOING MAINTENANCE	145	17.3. STOXX EMERGING MARKETS EXPOSED INDICES	181
16.6. STOXX SELECT INDICES	146	17.3.1. OVERVIEW	181
16.6.1. STANDARD STOXX SELECT INDICES	146	17.3.2. INDEX REVIEW	181
16.6.1.1. OVERVIEW	146	17.3.3. ONGOING MAINTENANCE	181
16.6.1.2. INDEX REVIEW	147		
16.6.1.3. ONGOING MAINTENANCE	149	18. STOXX THEMATIC INDICES	182
16.6.2. STOXX LOW CARBON SELECT INDICES	150	18.1. STOXX GLOBAL ARTIFICIAL INTELLIGENCE INDEX	182
16.6.2.1. OVERVIEW	150	18.1.1. OVERVIEW	182
16.6.2.1. INDEX REVIEW	150	18.1.2. INDEX REVIEW	182
16.6.2.2. ONGOING MAINTENANCE	152	18.1.3. ONGOING MAINTENANCE	183
16.7. STOXX DIVERSIFICATION SELECT INDICES	153	18.2. STOXX GLOBAL DIGITAL SECURITY INDEX	185
16.7.1. STANDARD STOXX DIVERSIFICATION SELECT INDICES	153	18.2.1. OVERVIEW	185
16.7.1.1. OVERVIEW	153	18.2.2. INDEX REVIEW	185
16.7.1.2. INDEX REVIEW	154	18.2.3. ONGOING MAINTENANCE	187
16.7.1.3. ONGOING MAINTENANCE	155	18.3. STOXX GLOBAL FINTECH INDEX	188

18.3.1. OVERVIEW	188
18.3.2. INDEX REVIEW	188
18.3.3. ONGOING MAINTENANCE	190
18.4. STOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY INDEX	191
18.4.1. OVERVIEW	191
18.4.2. INDEX REVIEW	191
18.4.3. ONGOING MAINTENANCE	195
18.5. STOXX GLOBAL SHARING ECONOMY DRIVERS INDEX	195
18.5.1. OVERVIEW	195
18.5.2. INDEX REVIEW	195
18.5.3. ONGOING MAINTENANCE	197
18.6. STOXX GLOBAL REVENUES-BASED THEMATIC INDICES	199
18.6.1. OVERVIEW	199
18.6.2. INDEX REVIEW	199
18.6.3. ONGOING MAINTENANCE	203

19. STOXX AI THEMATIC INDICES 204

19.1. STOXX AI GLOBAL ARTIFICIAL INTELLIGENCE INDICES	204
19.1.1. OVERVIEW	204
19.1.2. INDEX REVIEW	205
19.1.3. ONGOING MAINTENANCE	206

20. STOXX PREMIA INDICES 207

20.1. EURO STOXX SINGLE PREMIUM INDICES	207
20.1.1. OVERVIEW	207
20.1.2. INDEX REVIEW	207
20.1.3. ONGOING MAINTENANCE	212
20.2. EURO STOXX MULTI PREMIA INDEX	213
20.2.1. OVERVIEW	213
20.2.2. INDEX REVIEW	213
20.2.3. ONGOING MAINTENANCE	215

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK 216

HIERARCHY	216
SUBSECTOR INDICES	217
SUBSECTOR ASSIGNMENT FOR STOXX OPTIMISED MARKET QUARTILES	226

1. INTRODUCTION TO THE STOXX INDEX GUIDES

The STOXX index guides are separated into the following sub-sets:

- » The **STOXX Calculation guide** provides a general overview of the calculation of the STOXX indices, the dissemination, the index formulas and adjustments due to corporate actions
- » The **STOXX Index Methodology guide** contains the index specific rules regarding the construction and derivation of the portfolio based indices, the individual component selection process and weighting schemes
- » The **STOXX Strategy guide** contains the formulas and description of all non-equity/strategy indices
- » The **STOXX Dividend Points Calculation guide** describes the dividend points products
- » The **STOXX Distribution Points Calculation guide** describes the distribution points products
- » The **STOXX ESG guide** contains the index specific rules regarding the construction and derivation of the ESG indices, the individual component selection process and weighting schemes
- » The **iSTOXX guide** contains the index specific rules regarding the construction and derivation of the iSTOXX indices, the individual component selection process and weighting schemes
- » The **STOXX Reference Rates guide** contains the rules and methodologies of the reference rate indices
- » The **STOXX Statistical Calculations** guide provides a detailed view of definitions and formulas of the statistical calculations as utilized in the reports, factsheets, indices and presentations produced by STOXX

All rule books are available for download on <http://www.stoxx.com/indices/rulebooks.html>

2. CHANGES TO THE GUIDE BOOK

2.1. HISTORY OF CHANGES TO THE STOXX EQUITY METHODOLOGY GUIDE

February 2011: Publication of a complete new rule book series

February 2011: Addition of the STOXX Islamic index family

March 2011: Methodology changes of the STOXX Sustainability index family

April 2011: Modification and addition of further indices to the STOXX Equal Weight section.

May 2011: Addition of the STOXX Infrastructure Index family

July 2011: Addition of the STOXX Rare Earth Index family

August 2011: Modification of 5.3 Index Review procedures and 9.3.3 Fast entry

November 2011: Addition of STOXX ex-Financials and ex-Banks indices, rule change for STOXX Optimized Country indices.

December 2011: Addition of the STOXX Europe Maximum Dividend 40, restructuring of the document and spin-off sections, restructuring of chapter 10

March 2012: Addition of country TMLs and regional expansion

April 2012: Addition of STOXX Benchmark and STOXX regional Total Market indices

June 2012: Reclassification of Red-Chip companies; addition of China into the Asia/Pacific region

July 2012: Amend of 4.3 COUNTRY and REGIONAL CLASSIFICATIONS

November 2012: Addition of STOXX Minimum Variance indices

December 2012: Addition of STOXX EM exposed indices

February 2013: Amendment of chapter 4 COVERAGE, 5 INDEX CHARACTERISTICS and clarification of the index methodologies

April 2013: Addition of STOXX Global 3D Printing indices

June 2013: Change of weighting scheme to Free Float Market Capitalization for STOXX Optimised Country indices (chapter 11.2)

August 2013: Additional subchapters in section 7 to describe the various derived indices based on the STOXX Benchmark indices: regional, size and sector indices.

August 2013: As a result of the review of the country classifications Red Chips are no longer eligible for the Developed Market indices. Therefore, Red Chips are excluded from STOXX Global 1800 and derived indices. August 2013: Clarification of the process to determine Emerging and Developed Markets in chapter 4.3.

September 2013: Addition of the STOXX Global Broad Infrastructure index.

September 2013: Addition of the STOXX ASEAN-Five Select Dividend 50 index

September 2013: Amendments if the Fast Entry rule in chapters 9

October 2013: Addition of STOXX Strong Quality indices

March 2014: Addition of STOXX Nordic Strong Quality indices

March 2014: Addition of the STOXX Europe Low Beta High Dividend 50 index

March 2014: Addition of the STOXX Strong Balance Sheet indices

March 2014: Addition of the EURO STOXX Supersectors 30-15

April 2014: Rule change STOXX Country Classification in chapter 4.3

July 2014: Addition of chapter 3 GENERAL PRINCIPLES

August 2014: Amendment of STOXX MINIMUM VARIANCE AND MINIMUM VARIANCE UNCONSTRAINED in chapter 16.1.2

December 2014: Clarification of review dates of the STOXX Europe Low Beta High Dividend 50 in chapter 16.4, universe definition of the STOXX Europe Private 20 and weighting scheme of the STOXX Global Broad Infrastructure in chapter 13

February 2015: Addition of the STOXX Share Ratio indices

2. CHANGES TO THE GUIDE BOOK

March 2015: Addition of STOXX ASEAN Select Dividend 30
 March 2015: Addition of STOXX International Exposure Indices
 June 2015: Addition of STOXX True Exposure Indices
 July 2015: Addition of STOXX Activist Indices
 October 2015: Addition of STOXX Select & Diversification Select Indices
 November 2015: Clarification of STOXX Select Dividend liquidity screening in chapter 10.1.2
 February 2016: Addition of STOXX Low Carbon indices in chapter 13.11
 March 2016: Clarification of methodology of chapter 4.3 COUNTRY and REGIONAL CLASSIFICATIONS and 6 STOXX TOTAL MARKET INDICES (TMI)
 May 2016: Addition of STOXX Select & Diversification Select Indices
 June 2016: Decommission of STOXX Islamic indices
 June 2016: Addition of STOXX ESG Impact indices
 July 2016: Clarification of rules of STOXX Select & Diversification Select Indices
 September 2016: Implementation of changes to country classification
 September 2016 (2): Change of the exposure calculation for the Emerging Markets Exposed indices
 October 2016: Addition of STOXX USA 900 Equal Weight Index and STOXX Japan 600 Equal Weight Index in Chapter 8.1, STOXX Equal Weight Indices
 October 2016 (2): Addition of STOXX USA Low Risk Weighted 300 Index and STOXX Japan Low Risk Weighted 300 Index in Chapter 16.2, STOXX Low Risk Weighted
 October 2016 (3): Addition of STOXX USA Select Dividend 30 Index in chapter 10.1, STOXX Select Dividend Indices
 October 2016 (4): Addition of Index types and currencies in chapter 10.4, STOXX Maximum Dividend Indices
 October 2016 (5): Addition of revised Minimum Variance methodology in chapter 16.1, STOXX Minimum Variance and Minimum Variance Unconstrained
 October 2016 (6): Addition of STOXX China A 900 Minimum Variance Indices in chapter 16.1.
 November 2016: Addition of STOXX Regional Industry Neutral ESG and STOXX Regional Excluding Tobacco Industry Neutral ESG indices in chapter 14.5
 November 2016 (2): Addition of STOXX South Korea 200 in chapter 7
 January 2017: Addition of EURO STOXX Quality Dividend 50
 January 2017 (2): Addition of the STOXX Global Infrastructure Select 30 Indices into the STOXX Standard Select methodology chapter.
 February 2017: improvement of wording and addition of details to the STOXX Europe Football, STOXX Global Extended Infrastructure 100, STOXX Global Infrastructure Suppliers 50, STOXX Global Broad Infrastructure, STOXX Regional Industry Neutral ESG and STOXX Regional Excluding Tobacco Industry indices. All modifications are intended to better describe the existing processes and no changes have been made to the existing index methodologies.
 February 2017 (2): Addition of STOXX China A 900 Minimum Variance Unconstrained AM Index in chapter 16
 March 2017: Addition of STOXX Climate Impact and Climate Awareness Indices in chapter 13.12
 March 2017 (2): Addition of STOXX North America, Asia/Pacific Size Indices in chapter 7.3.2
 August 2017: Addition of STOXX Emerging Markets ex PK Select 100, STOXX Global Health Care Select 30 and STOXX Global Technology Select 30 indices in chapter 16.6.1, Addition of STOXX USA 500 in Chapter 7.1
 August 2017 (2): Addition of STOXX Emerging Markets 800 LO index in chapter 7.7

2. CHANGES TO THE GUIDE BOOK

October 2017: addition of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: STOXX® Global Broad Infrastructure Index, STOXX® Global ESG Impact Index, STOXX® USA ESG Impact Index

November 2017: Termination of calculation and dissemination of STOXX Optimised Asia Select, STOXX Europe Private Equity 20, STOXX Global Rare Earth Extended and STOXX Global Max Traded 200 indices

November 2017 (2): change of dissemination calendar in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the STOXX USA 500 Index

November 2017 (3): Addition of index STOXX Canada 60 in Chapter 9

November 2017 (4): Termination of calculation and dissemination of STOXX Global Grand Prix Index

December 2017: Clarification of 14.4.2 Index Review of the STOXX ESG Impact Indices

December 2017 (2): Clarification of index-specific dissemination calendars in line with definition of Dissemination Calendar in the STOXX Calculation Guide for the following indices: STOXX® Global Broad Infrastructure Index, STOXX® Global ESG Impact Index, STOXX® USA ESG Impact Index

January 2018: Addition of indices STOXX AI Global Artificial Intelligence Index and STOXX Global Artificial Intelligence Index.

January 2018 (2): Methodology change: COUNTRY and REGIONAL CLASSIFICATIONS and change in free-float market capitalization coverage to at least 95% for the STOXX TOTAL MARKET INDICES (TMI).

January 2018 (3): Addition of indices Euro Stoxx 50 Subindex Germany and Euro Stoxx 50 Subindex Netherlands (Euro Stoxx 50 subindices) in section 9.2.2.

February 2018: Clarification of COUNTRY and REGIONAL CLASSIFICATIONS, STOXX TOTAL MARKET INDICES (TMI) and TOTAL MARKET SIZE INDICES. No conceptual changes, only simplification and clarification of wording.

March 2018: Rewording of Country Classification: the description of the conditions for the classification as Emerging Market has been simplified. The applied logic remains unaltered. Clarification of methodology of STOXX TM Style indices and STOXX Strong Style indices: parts of the methodologies have been rewritten and enriched with additional details to better and more transparently represent the actual review process. The methodology implementation remains unaltered.

March 2018 (2): Change of component announcement dates for major blue-chip and major benchmark indices in section 5.3; change of review cut-off dates in section 7.1 and section 7.2.

March 2018 (3): Addition of STOXX Global Digital Security Index.

April 2018: The simplification applied to the rewording of Emerging Market in the Country Classification during March, did not accurately reflect the desired logic.

April 2018 (2): Country classification: addition of sub-sections, removal of country classification table, reference to STOXX website containing the country classification and STOXX Watch List.

May 2018: Addition of EURO STOXX Single Premium and EURO STOXX Multi Premia indices in section 20.1 and 20.2

May 2018 (2): Addition of STOXX Emerging Markets 800 LO Minimum Variance Index in section 16.1.

May 2018 (3): Addition of STOXX AI Global Artificial Intelligence ADTV5 Index in section 19.1

May 2018 (4): Change in data provider name: South Pole changed to ISS-Ethix Climate Solutions

2. CHANGES TO THE GUIDE BOOK

June 2018: Amendment of STOXX Global Artificial Intelligence Index methodology as per the OC determination in June 2018: change in minimum liquidity filter from ADTV to MDTV

June 2018 (2): Addition of STOXX AI Global Artificial Intelligence ADTV5 USD currency versions in section 19.1

June 2018 (3): Amendment of incorrect weighting cap factor calculation date for the EURO STOXX Single Premium and Multi Premia indices

August 2018: Addition of STOXX Yewno Developed Markets Blockchain Index

August 2018 (2): Change in name resulted to iSTOXX Yewno Developed Markets Blockchain Index being moved to the iSTOXX Index Methodology Guide (previously named STOXX Yewno Developed Markets Blockchain Index)

August 2018 (3): Addition of STOXX Global Fintech Index

September 2018: Removal of ICB Industry and Supersector subindices derived from the following indices due to decommissioning (announced via press release on 19.06.2018): STOXX All Europe 800, STOXX Americas 1200, STOXX Asia 1200, STOXX BRIC 400, STOXX East Asia 1800, STOXX Europe 600 NC, STOXX Europe ex UK Total Market, STOXX Global 1800 ex Asia/Pacific, STOXX Global 1800 ex North America, STOXX Global 3000 ex East Asia, STOXX Nordic Total Market, STOXX Pacific 100. Impacted sections are: 7.1.2, 7.2.2, 7.4.2, 7.5.2.

November 2018: Addition of STOXX Global Electric Vehicles & Driving Technology Index

November 2018 (2): Addition of STOXX Europe 600 ESG-X Index

November 2018 (3): Addition of STOXX China P Chips Total Market and STOXX China ADR Total Market

January 2019: Improvement of wording regarding derived indices in 14.1 STOXX Europe Sustainability Indices

January 2019 (2): Addition of: EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices, EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained Index and STOXX Global Sharing Economy Drivers Index

February 2019: Addition of STOXX Global Silver Economy, STOXX Global Millennials, STOXX Global Housing Construction, STOXX Global Sharing Economy, STOXX Global Industry 4.0, STOXX Global Smart Factory, STOXX Global Smart Cities indices

March 2019: Change of review timing for STOXX China A 900 Minimum Variance Unconstrained AM

May 2019: Addition of STOXX Benchmark ESG-X Indices

3. GENERAL PRINCIPLES

3.1. INDEX RATIONALE

STOXX defines the index rationale as the basis for applying a certain methodology in order to achieve the index objective. STOXX performs intensive research and may conduct conversations with market participants and third parties for this purpose. STOXX discloses the index objective in every case.

3.2. METHODOLOGY REVIEW POLICIES

STOXX constantly monitors the execution of the index calculation rules in order to ensure the validity of the index methodology. STOXX also conducts general methodology reviews in a periodic and ad-hoc basis, to reflect economic and political changes and developments in the investment industry. As result of these activities, STOXX introduces changes to the methodology books. Material changes are notified to subscribers and the media through the usual communication channels. Clarifications of the methodology are updated in the rulebook. All changes are tracked in the section 2.1 HISTORY OF CHANGES TO THE STOXX EQUITY METHODOLOGY GUIDE.

3.3. INDEX TERMINATION POLICY

For the termination of an index or index family for which outstanding products are present in the market to the knowledge of STOXX, a market consultation with the involved clients will be initiated by STOXX to take into account their views and concerns related to the termination or transition. A consultation period will be opened. Its duration depends on the specific issue. After the consultation period and in case of further action needed, a notification will be issued and the process defined above will be followed. In the case of a transition, STOXX will launch the alternative index and will notify of its character as a suitable replacement for an existing index whose calculation should be discontinued in the future. This notification advises clients on the alternative recommended by STOXX as replacement. The timeframe in which both indices will be calculated in parallel will be disclosed in the notification's text and will be no shorter than three months.

For the termination of an index or index family for which, to the knowledge of STOXX, no listed financial products are issued in the market, a press release notification or e-mail notification to subscribers will be communicated at least three months before coming into force. Clients or third parties with interest in the index or index family are urged to communicate as soon as possible their concerns to STOXX. Based on the feedback collected, STOXX may alter the index termination decision. For the termination of an index without financial product issued on there will be no market consultation. Changes to the original notification will be communicated in the same manner.

4. COVERAGE

4.1. STOXX GLOBAL EQUITY STOCK UNIVERSE

All common stocks and equities with similar characteristics from financial markets that provide real-time and historical component and currency pricing form the STOXX global equity universe. This universe and the following framework described in chapter 4 and 5 is used for all STOXX, iSTOXX and customized indices calculated by STOXX.

4.2. STOXX INVESTABLE UNIVERSE

The STOXX investable universe is the fraction of the STOXX global equity universe listed on the following stock exchanges and countries:

Western Europe

Athens Stock Exchange (GR)	NASDAQ OMX Copenhagen (DK)	EURONEXT Lisbon (PT)
Bolsa De Madrid (ES)	NASDAQ OMX Helsinki (FI)	EURONEXT Paris (FR)
Borsa Italiana (IT)	NASDAQ OMX Iceland (IS)	Oslo Børs (NO)
Deutsche Börse (DE)	NASDAQ OMX Stockholm (SE)	SIX Swiss Exchange (CH)
Irish Stock Exchange (IE)	EURONEXT Amsterdam (NL)	Vienna Stock Exchange (AT)
London Stock Exchange (GB)	EURONEXT Brussels (BE)	

Eastern Europe

Belgrade Stock Exchange (RS)	Istanbul Stock Exchange (TR)	NASDAQ OMX Tallinn (EE)
Bratislava Stock Exchange (SK)	Ljubljana Stock Exchange (SI)	NASDAQ OMX Vilnius (LT)
Bucharest Stock Exchange (RO)	Macedonian Stock Exchange (MK)	Prague Stock Exchange (CZ)
Budapest Stock Exchange (HU)	Malta Stock Exchange (MT)	Ukrainian Exchange (UA)
Bulgarian Stock Exchange – XETRA (BG)	MICEX Stock Exchange (RU)	Warsaw Stock Exchange (PL)
Cyprus Stock Exchange (CY)	NASDAQ OMX Riga (LV)	Zagreb Stock Exchange (HR)

Americas

Bolsa de Valores de Colombia (CO)	Bolsa Mexicana de Valores (MX)	NYSE (US)
Bolsa de Valores de Lima (PE)	Buenos Aires Stock Exchange (AR)	Santiago Stock Exchange (CL)
Bolsa de Valores, Mercadorias & Futuros de São Paulo (BR)	NASDAQ (US)	Toronto Stock Exchange (CA)

Asia/Pacific

Australia Securities Exchange (AU)	Korea Exchange (KR)	Singapore Exchange (SG)
Bombay Stock Exchange (IN)	Malaysia Stock Exchange (MY)	Stock Exchange of Thailand (TH)
Ho Chi Minh Stock Exchange (VN)	New Zealand Exchange (NZ)	Taiwan Stock Exchange (TW)
Hong Kong Stock Exchange (HK)	Philippine Stock Exchange (PH)	Tokyo Stock Exchange (JP)
Indonesia Stock Exchange (ID)	Shanghai Stock Exchange (CN)	
Karachi Stock Exchange (PK)	Shenzhen Stock Exchange (CN)	

Africa

Casablanca Stock Exchange (MA)	Johannesburg Stock Exchange (ZA)	Tunis Stock Exchange (TN)
Egyptian Exchange (EG)	Nigerian Stock Exchange (NI)	Tel Aviv Stock Exchange (IL)

4. COVERAGE

4.3. COUNTRY and REGIONAL CLASSIFICATIONS

4.3.1. OVERVIEW

The STOXX country classification model relies on a rules-based methodology. The six criteria for the classification of a country as a developed or emerging market include macroeconomic data, market capitalization, market liquidity, free currency convertibility on on-shore and off-shore markets, restrictions on capital flows and governance based on political stability, control of corruption and regulatory quality.

A formal reassessment of all country classifications is done annually in Q1, when a final classification assignment decision is made for each country. A public announcement¹ of any classification changes resulting from the annual reassessment is released latest by April of each year. Implementation of the classification changes occurs with the quarterly index review in Q3 of the same year.

4.3.2. COUNTRY SELECTION CRITERIA

The selection criteria are the following:

1: World Bank GNI per capita (Source: World Bank)

Definition: Only countries that are classified as Advanced by the World Bank in terms of GNI per capita (GNI/n), are considered as eligible for Developed Market status by STOXX. Advanced countries are those that have a GNI/n equal to or greater than the maximum cut-off value (e.g. \$12 476 for 2016), as published by the World Bank on an annual basis.

2a: Market Capitalization Screening (Source: Thomson Reuters QAD / STOXX internal data)

Definition: Countries must have a market capitalization that is equal to or greater than the 20th percentile, as calculated in terms of the market capitalization of the countries covered by STOXX, to be eligible as either a Developed or Emerging Market. Countries that do not meet this criterion, will be Not Classified.

2b: Liquidity Screening (Source: Thomson Reuters QAD / STOXX internal data)

Definition: The total value of shares traded must be equal to or greater than the 40th percentile, as calculated in terms of the value of shares traded of the countries covered by STOXX, for a country to be eligible for Developed Market status. All countries that have a total value of shares traded of less than the 40th percentile, but equal to or greater than the 30th percentile, will only be eligible for Emerging Market status. All countries that have a total value of shares traded of below the 30th percentile, will be Not Classified.

For criteria 2a and 2b, the average data of the last three consecutive years are used in order to avoid short-term fluctuations, i.e. 2017 decisions are based on average data from 2014 to 2016.

3a: Free Currency Convertibility on On-Shore and Off-Shore Markets (Source: PwC - PricewaterhouseCoopers)

Definition: The remaining countries must have free currency convertibility and availability of developed on-shore and off-shore markets. To get into and out of their positions, foreign investors should be able to freely buy and sell the local currency.

¹ http://www.stoxx.com/indices/country_classification.html

4. COVERAGE

This criterion is only considered at the time of classification. Extraordinary events will be assessed by the STOXX Oversight Committee.

3b: No Restrictions on Capital Flows (Source: PwC – PricewaterhouseCoopers)

Definition: Additionally, international investors have to be able to move funds freely in and out of the country.

3c: Governance Score (Source: World Bank)

Definition: Each country is assigned a governance score based on Political Stability, Control of Corruption and Regulatory Quality as contained within the Worldwide Governance Indicators report of the World Bank.

This criterion is only considered at the time of classification. Extraordinary events will be assessed by the STOXX Oversight Committee.

Only those countries that meet the all criteria as set in steps 1, 2a, considered as eligible for Developed Market status in 2b, as well as all criteria in steps 3a, 3b and 3c, will be classified as a STOXX Developed Market.

Countries that do not meet all the criteria in steps 3a to 3c, but meet the criterion in step 2a and are considered as eligible for Emerging Market status in 2b, are classified as a STOXX Emerging Market.

Countries that cannot be classified as Developed or Emerging Markets are considered Not Classified. Specifically, countries are considered Not Classified and are entirely excluded when they are Not Classified according to either of the minimum criteria in steps 2a or 2b.

STOXX Watch List ²:

The general spirit in which the watch list is managed would follow the principles of maintaining market integrity while striving to minimize unnecessary client impact.

All countries that would have a different classification from the previous year, would be flagged and captured in a watch list. Countries will stay on this watch list for a period of at least 1 year, and in some circumstances may stay on the watch list for many years, in order to avoid countries being classified and reclassified because of a certain data point at a particular point in time.

Countries that oscillate between classification levels will maintain their last classification and remain on the watch list, unless decided otherwise by the STOXX Oversight Committee, within the framework provided by the STOXX Governance Process. The watch list would allow countries to be reclassified should the STOXX Oversight Committee deem in to be in the interest of market participants to expedite a new classification, within the framework provided by the STOXX Governance Process.

Countries may only change classification by a single level at a time, as compared to their current classification. STOXX may consider certain countries as borderline (countries that are either just

² http://www.stoxx.com/indices/country_classification.html

4. COVERAGE

below or just above the set thresholds) and may include these in the watch list to be observed and possibly reclassified by the STOXX Oversight Committee, within the framework provided by the STOXX Governance Process.

STOXX will review the regional classifications and index compositions in case a country announces changes to its currency and its companies adopt a new local currency at a future date. Changes will be implemented with two trading days' notice provided that orderly trading in the original currency is possible following the announcement.

In addition, STOXX generally reviews a country's eligibility to any index at short notice in case of major market disruptions in that country.

4.3.3. REGIONAL SPECIFICS

STOXX classifies EU Enlarged as the current EU region and will be extend in line with the extension of the European union to cover the new EU member states.

The Eurozone contains companies that are allocated to one of the defined Eurozone countries according to the rules set out in chapter 5.7 (COUNTRY and LISTING), and that are traded in Euro. Companies allocated to Eurozone countries and not trading in EUR are not eligible for the Eurozone indices.

To cover the different share classes of companies from China, Taiwan and Hong Kong, the following STOXX index universe and regions exist:

Index family	Shares classes covered	Region
STOXX China	B, H and Red chips	As defined in table above
STOXX China A	A shares	Separate family outside of the STOXX Global index universe
STOXX China B	B shares	Derived from STOXX China universe
STOXX China H	H shares	Derived from STOXX China universe
STOXX China Red Chips	Red chip	Derived from STOXX China universe
STOXX China P Chips	P chip	Separate family outside of the STOXX Global index universe
STOXX China ADR	ADR	Separate family outside of the STOXX Global index universe
STOXX Greater China	B, H, Red chip, Hong Kong, Taiwan	Derived from STOXX China, HK, TW universe
STOXX Hong Kong All Shares	Hong Kong, H, Red Chips	Derived from STOXX HK and China universe

5. INDEX CHARACTERISTICS

The following framework described in chapter 5 is used for all STOXX, iSTOXX and customized indices calculated by STOXX.

5.1. MARKET CAPITALIZATION-WEIGHTED INDICES AND PRICE- WEIGHTED INDICES

The Free-Float Market Capitalization determines the weights of each constituent in Free-Float Market Capitalization weighted indices. Price-weighted indices are weighted by the price and another appropriate weighting factor. For details on the calculation formula please consult the STOXX calculation guide and the weighting factor definition in chapter 5.13 of this document.

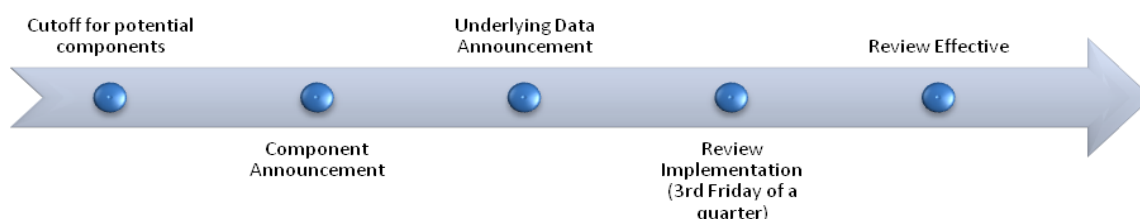
5.2. SELECTION LISTS

The selection lists are produced for indices with a fixed number of constituents in order to determine replacements for any stock deleted from the indices due to a corporate actions. Selection lists can also indicate possible changes in the composition of the index at the next review.

5.3. INDEX REVIEW

To keep up with the latest development of the stock markets, all indices are reviewed on a regular basis to ensure a transparent and up-to-date index basket. The implementation ("the rebalancing") is usually conducted quarterly after the close every third Friday in March, June, September and December and effective the next trading day.

If the implementation day is a non-trading day then all dates will be preponed by one trading day accordingly. The review effective day remains the next trading day following the implementation day.



Component changes are announced:

on the first trading day of the review month for major blue-chip indices and major benchmark indices

on the fifth trading day of the review month for price weighted indices

on the second Friday of the review month for all other indices.

The most recent free-float data as known to STOXX are used for the component selection. The detailed cut off dates are available in the STOXX Calculation Guide.

5. INDEX CHARACTERISTICS

The underlying data (i.e. shares, free-floats, weighting factors and cap factors) are announced prior to the review implementation:

- » for blue-chip indices two trading days ahead
- » for all other indices five trading days ahead

For the calculation of weighting and capping factors, the closing prices on the trading day before the announcements are used.

Diverging announcement schedules may occur and are defined in the specific index methodology and communicated in advance. The detailed review schedule is published on the STOXX website.³

5.4. BUFFERS

Buffers are used in the periodic reviews to reduce turnover. Based on an index-specific characteristic, an upper and a lower limit is set around the index target coverage. Stocks ranked at and above the upper limit are selected for the index. The remaining stocks necessary to achieve the target coverage (fixed number of stocks or market capitalization threshold) are selected from the highest-ranked remaining current stocks between the upper and lower limit. If the target coverage is still not achieved, the highest remaining stocks are selected until the target coverage is achieved.

5.5. LIQUIDITY

During the period review processes liquidity screenings are applied as defined in the specific index methodology sections (e.g. companies must have a minimum Average Daily Traded Value over a given time period). A company's ADTV is based on the trading volumes of the specific listing used for the index calculation. In case the determined ADTV level does not allow a selection of the defined number of constituents in a fixed component index, the liquidity threshold is adjusted downwards accordingly.

In case of market events that negatively influence the aggregated liquidity and market capitalization of entire markets, the liquidity requirements can be lowered or the period index review can be postponed to the next quarterly review date. In such cases, the composition remains unchanged, but new weighting factors will be implemented. Changes will be communicated in advance.

5.6. STOCK CHARACTERISTICS

Index values are calculated within the STOXX framework based on, but not limited to, one or more of the following characteristics. These characteristics are screened during the quarterly review process (ordinary adjustment) and extraordinarily outside of the review period in case of corporate actions. Please refer to the calculation guide for further details about extraordinary adjustments and corporate actions treatment. To access the latest information about extraordinary adjustments

³ http://www.stoxx.com/news/review_dates.html

5. INDEX CHARACTERISTICS

subscribe to the STOXX E-Mail distribution list and download regularly the Corporate Action forecast⁴.

5.7. COUNTRY AND LISTING

Each stock is uniquely assigned to a specific country and listing within the STOXX investable universe. The country classification and listing is based on the country of incorporation, the primary listing and the country with the largest trading volume. American and depositary receipts (e.g. ADRs/GDRs) are assigned to the same country as the stock on which the receipt is issued.

Each country is assigned to one or more regions according to chapter 4.3.

5.8. CURRENCY

Each stock is uniquely assigned a specific currency depending on the selected listing.

5.9. INDUSTRY CLASSIFICATION BENCHMARK (ICB) CODE

Each stock is assigned a specific and unique ICB Code. The Industry Classification Benchmark (ICB) groups together companies that have similar sources of primary revenue. The detailed hierarchy of the Industry Classification Benchmark is shown in Appendix 1.

Sector changes are implemented immediately subsequent to corporate actions. Otherwise they are published at the next component announcement and applied at the quarterly review.

Unless, stated explicitly in the individual index methodologies differently all companies classified into the ICB categories 8985 (Equity Investment Instruments) and 8995 (Non-equity Investment Instruments) are not eligible for inclusion into the indices.

5.10. CORPORATE ACTIONS

All index components are adjusted for corporate actions. Any event is treated in the same way in all indices. Please consult to the STOXX Calculation guide for the detailed treatments.

5.11. NUMBER OF SHARES

A number of shares including treasury stock held by the company itself is assigned uniquely to each stock within the STOXX universe. The number of shares are reviewed on a quarterly basis. They are published on the quarterly underlying data announcement and implemented on the quarterly review implementation.

⁴ <http://www.stoxx.com/mystoxx/activation.html>

http://www.stoxx.com/data/corporate_actions.html, updated daily

5. INDEX CHARACTERISTICS

5.12. FREE-FLOAT FACTORS

Each stock is assigned a unique free-float factor within the STOXX universe. The free-float factor reduces the number of shares to the actual amount available on the market. All fractions of the total number of shares that are larger than 5% and whose holding is of a long-term nature are excluded from the index calculation. This includes:

Cross-ownership: stock owned either by the company itself, in the form of treasury shares, or owned by other companies;

Government ownership: stock owned by either governments or their agencies;

Private ownership: stock owned by either individuals or families;

Restricted shares that cannot be traded during a certain period or have a foreign ownership restriction.

Block ownership is not applied for holdings of custodian nominees, trustee companies, mutual funds, investment companies with short-term investment strategies, pension funds and similar entities.

The free-float factors are reviewed on a quarterly basis. They are published on the quarterly underlying data announcement and implemented on the quarterly review implementation.

5.13. WEIGHTING FACTOR

Weighting factors are applied in price-weighted indices instead of the factor “shares times free-float”. Weighting factors are calculated on the basis of other criteria like for example dividend data. Weighting factors are adjusted for corporate actions. Please consult the STOXX Calculation Guide for further details.

5.14. FREE-FLOAT MARKET CAPITALIZATION

The free-float market capitalization is the share of a stocks’ total market capitalization that is available for trading:

Free-float market capitalization = free-float factor × full market capitalization

The weighting factor multiplied by the price of the share determines the weight of a company within a price-weighted index.

5.15. CAPPING FACTORS

5.15.1. WEIGHTING CAP FACTORS

The factor limits the maximum weighting for a stock at the time of the review. Weighting cap factors are updated during the regular quarterly index reviews and not adjusted for corporate actions. The weighting cap factors are used to achieve a diversification and avoid a dominance of a single stock, region, country or sector in an index.

Depending on the objective of the index different maximum weights are sets. Blue-chip indices are capped at 10% per component while some benchmark indices have a capping at 20%. For other indices, especially the STOXX capped Supersector indices, due to a narrow underlying

5. INDEX CHARACTERISTICS

universe and to reflect the market appropriately the indices are capped at 30% for largest and 15% for the second largest constituent.

Further details can be found in the individual index methodologies of this rule book.

5.15.2. LIQUIDITY SCALING FACTORS

Liquidity scaling factors are used in the STOXX Optimised indices. The factor is based on the average daily turnover (ADTV) of the stock over the most recent three-month period, measured one day before the underlying data announcement date. The factor is kept constant between reviews and is calculated as follows:

1. Determination of free-float market capitalization weights:

$$w_{it} = \frac{p_{it} \cdot n_{it} \cdot ff_{it}}{\sum_{i=1}^n p_{it} \cdot n_{it} \cdot ff_{it}}$$

p_{it} = Price of company (i) at time (t)
 n_{it} = Number of shares of company (i) at time (t)
 ff_{it} = Free-float factor of company (i) at time (t)
 n = Number of shares

2. Calculation of liquidity value:

$$lv_{it} = \frac{w_{it}}{ADTV3m_{it}}$$

w_{it} = Free-float market capitalization weight (i) at time (t) in the specific index basket
 $ADTV3m_{it}$ = Average Daily Traded Value (i) at time (t)

Calculation of sum of weighted liquidity values:

$$wlv_t = \sum_{i=1}^n w_{it} \cdot lv_{it}$$

3. Calculation of liquidity scaling cap factor:

$$cf_{it} = \begin{cases} \frac{wlv_t}{lv_{it}} & \text{if } (lv_{it} > wlv_t) \\ 1 & \text{if } (lv_{it} \leq wlv_t) \end{cases}$$

The factor therefore reduces the liquidity value to the weighted average, if it is larger than that average.

6. STOXX TOTAL MARKET INDICES (TMI)

6.1. TOTAL MARKET COUNTRY INDICES

6.1.1. OVERVIEW

The STOXX Country Total Market indices are the basis for all regional STOXX Total Market indices. Each country index aims to represent a broad market and covers at least 95% of the free-float market capitalization of the respective country. The individual country coverage thresholds are published on a quarterly basis on www.stoxx.com. The STOXX Total Market country indices serve as basis for the component selection of the regional Total Market indices.

Universe: All stocks in the investable universe selected by their unique country code.

6.1.2. INDEX REVIEW

Selection list: For all companies available in the global stock universe pricing, volume and reference data are obtained from Thomson Reuters. For current index constituent the data are enriched by STOXX data. Each company is assigned a unique country code, listing and ICB code valid for all STOXX indices.

For all companies the following screenings and filters are applied to determine eligibility:

Exclusion criteria

- » Only common stocks and equities with similar characteristics from financial markets that provide reliable real-time, historical component and currency pricing, and reference and corporate actions data are eligible according to chapter 4.1
- » Only listed companies on a regulated market on an exchange defined in the STOXX Investable Universe are eligible according to chapter 4.2
- » Equity or Non-Equity Investment Instruments according to the Industry Classification Benchmark (ICB: 8985 or 8995) are not eligible
- » Companies that were recently removed from the indices due to mergers and acquisition are not eligible

China specific rules

- » P Chips are securities of companies not incorporated in the PRC, headquartered either in China or Hong Kong and listed in the Hong Kong stock exchange. For P Chips, the following revenue filters then are applied to determine eligibility to be classified as a P Chip and form part of the investable stock universe: for companies headquartered in China, revenues derived from the PRC should be more than 70% and for companies headquartered in Hong Kong, revenues derived from the PRC should be more than 80%. For existing companies in the index that are headquartered in China, revenues derived from mainland China should be more than 60% and for existing companies in the index headquartered in Hong Kong, revenues derived from mainland China should be more than 70%.
- » ADRs are depositary receipts of companies not incorporated in the PRC, headquartered either in China or Hong Kong and listed in the New York or Nasdaq stock exchanges. For ADRs, the following filters then are applied to determine eligibility: revenues derived from mainland China should be more than 60%. For existing companies in the index, revenues derived from mainland China should be more than 50%.

6. STOXX TOTAL MARKET INDICES (TMI)

Determination of most liquid market

- » For all companies the most liquid market is identified out of all listing and country combinations. The company's listing must be in the same region (Americas, Europe, Asia / Pacific) as the country assignment to be eligible

Country and regional assignments in STOXX universe

- » According to chapters 4.3 and 5.7

Non-trading day screenings

- » Companies are screened for their non-trading days in the three-month period preceding the review cut-off date
- » Spin-offs and companies that were suspended due to corporate actions are considered as eligible
- » Companies with an IPO date in the three-month period preceding the review cut-off date are considered as eligible
- » Companies assigned to Non-Developed Market countries according to the STOXX country classifications are not eligible if they exceed 10 non-trading days

Component selection: Target coverage is at least 95% of the free-float market capitalization of the investable stock universe at the cut-off date in the regarding country.

Review procedure:

All stocks in the investable stock universe of the country in question are ranked in terms of their free-float market capitalization at the cut-off date to produce the review list. A 93-99% buffer is applied as follows:

1. The largest companies in the investible universe with a cumulative free-float market capitalization up to and including 93% of the investible universe, qualify for selection.
2. The stocks covering the next two percent of cumulative free-float market capitalization are selected among the largest remaining current TMI components representing the portion of capitalization above 93% and up to and including 99%.
3. If the country coverage is still below the defined threshold, then the largest remaining stocks are selected until the country coverage is reached, as stated in section 6.1.1.

Review frequency: The reviews are conducted on a quarterly basis. The review cut-off date is the last trading day of the month following the last quarterly index review.

Weighting cap factors: The components are not subject to component weight restrictions and capping.

Derived indices: All STOXX Regional Total Market indices.

6.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

6. STOXX TOTAL MARKET INDICES (TMI)

Spin-offs: Spin-offs are added permanently if qualifying for the STOXX TMI indices as of the latest quarterly review list in terms of free-float market capitalization.

6. STOXX TOTAL MARKET INDICES (TMI)

6.2. TOTAL MARKET REGIONAL INDICES

6.2.1. OVERVIEW

The STOXX Regional Total Market indices are aggregates of the STOXX Total Market country indices. They aim to provide a broad representation of the respective region.

Universe: at least 95% of the free-float market capitalization of the investable stock universe by country.

Regional aggregates exist for several regions as defined in section 4.3:

Global, Developed Markets, Emerging Markets, Americas, North America, Latin America, Asia, East Asia, Pacific, Asia Pacific, Africa, All Europe, Europe, Nordic, Eurozone, Eastern Europe, EU Enlarged, Balkan, Sub Balkan

For a complete list please consult the data vendor code sheet on the website⁵. Customized solutions can be provided upon request.

Weighting scheme: The indices are weighted according to free-float market capitalization: No weighting cap factors are applied. All derived indices can be rolled-up to form the parent index.

Base values and dates: The following base values and dates apply:

STOXX Global Total Market Index: 100 on January 31, 2011
STOXX Americas Total Market Index: 100 on January 31, 2011
STOXX All Europe Total Market Index: 100 on January 31, 2011
STOXX Asia Total Market Index: 100 on January 31, 2011
STOXX Pacific Total Market Index: 100 on January 31, 2011
STOXX BRIC Total Market Index: 100 on January 31, 2011
STOXX Latin America Total Market Index: 100 on January 31, 2011
STOXX Europe Total Market Index: 100 on December 31, 1991
STOXX Nordic Total Market Index: 100 on December 31, 1991
STOXX EU Enlarged TMI: 100 on December 31, 2002
STOXX Eastern Europe Total Market Index: 100 on December 31, 2002
STOXX Balkan Total Market Index: 100 on December 31, 2004
STOXX Sub Balkan Total Market Index: 100 on December 31, 2004
STOXX Emerging Market Total Market Index: 100 on January 31, 2011
STOXX Africa Total Market Index: 100 on January 31, 2011
STOXX East Asia Total Market: 100 on January 31, 2011
STOXX Developed Markets Total Market: 100 on January 31, 2011
STOXX Developed and Emerging Markets Total Market 100 on January 31

Index types and currencies: Price, gross return and net return in EUR and USD

⁵ http://www.STOXX.com/download/indices/vendor_codes.xls

6. STOXX TOTAL MARKET INDICES (TMI)

6.2.2. INDEX REVIEW

Component selection: The indices consist of the components of the relevant Total Market Country indices.

Review frequency: The reviews are conducted on a quarterly basis together with the STOXX Total Market Country indices.

Derived indices:

Sector and Size Indices*	
STOXX {Region}	<Index> <ICB Industry>
STOXX {Region}	<Index> < ICB Supersector>
STOXX {Region}	<Index> < ICB Sector>*
STOXX {Region}	<Index> < ICB Subsector>*
STOXX {Region}	<Index> Large
STOXX {Region}	<Index> Mid
STOXX {Region}	<Index> Small

*As some of these indices would not have enough components, not all indices are disseminated.

Ex Regions: A number of regions are calculated with the exclusion of certain countries.

Furthermore all fixed component benchmark indices are derived from the TMI indices. Please see chapter 7 for details

6.2.3. ONGOING MAINTENANCE

Replacements: In line with the STOXX Total Market country indices, deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are added permanently if qualifying for the STOXX TMI indices as of the latest quarterly review list in terms of free-float market capitalization.

6. STOXX TOTAL MARKET INDICES (TMI)

6.3. TOTAL MARKET SIZE INDICES

6.3.1. OVERVIEW

The size indices are derived from the STOXX Global Total Market indices. They aim in grouping large, mid and small companies by their total market capitalization in their specific regions.

Universe: Sizes are derived for selected countries and the regions Europe, EU-Enlarged and Eastern Europe.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and dates: The following base values and dates apply:

Europe TMI Size indices : 100 on December 31, 1991

Nordic TMI Size: 100 on December 31, 1991

EU Enlarged TMI Size indices: 100 on December 31, 2002

Eastern Europe TMI Size indices: 100 on December 31, 2002

6.3.2. INDEX REVIEW

Component selection: On a quarterly basis, the companies in the given STOXX TMI are ranked in terms of their total market capitalization in descending order. For each company, the total market capitalization based on all its stock classes is used to produce the investible universe. Prices, exchange rates and shares as of the review cut-off date are used. For companies which have been selected for a TMI, sizes will be assigned as follows in order to produce the relevant review selection lists:

STOXX TMI Large Index (67.5 - 75 buffer rule)

Target coverage: The largest companies representing the portion of cumulative total market capitalization up to and including 70% in the investible universe. The companies representing a cumulative capitalization of 67.5% are selected; additionally, current Large companies representing the portion of the cumulative capitalization above 67.5% and up to and including 75%, are also included.

STOXX TMI Mid Index (85 - 92.5 buffer rule)

Target coverage: Companies representing the portion of cumulative total market capitalization in the investible universe above 70% and up to and including 90% in the investible universe. Companies representing the portion of cumulative capitalization up to and including 85% and which have not already been assigned to the Large segment qualify for selection. Current Mid companies representing the portion of cumulative capitalization above 85% and up to and including 92.5%, are also included.

STOXX TMI Small Index

Target coverage: Companies representing the portion of cumulative total market capitalization in the investible universe above 90%. Companies not already assigned to the Large or Mid segments are assigned to the Small segment.

6. STOXX TOTAL MARKET INDICES (TMI)

Review frequency: The reviews are conducted on a quarterly basis together with the STOXX Global Total Market indices.

Weighting cap factors: The components are not subject to component weight restrictions and capping.

Derived indices:

Region	Index
Europe	STOXX Europe Total Market <Size>
Eurozone	EURO STOXX Total Market <Size>
Europe ex UK	STOXX Europe ex UK Total Market <Size>
Europe ex Euro	STOXX Europe ex Eurozone Total Market <Size>
Nordic	STOXX Nordic Total Market <Size>
Eastern Europe	STOXX Eastern Europe Total Market <Size>

6.3.3. ONGOING MAINTENANCE

Replacements: In line with the respective STOXX country TMI index; deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are added permanently if qualifying for the STOXX TMI indices as of the latest quarterly review list in terms of free-float market capitalization. A spin-off is added to same size category as the parent company.

7. STOXX BENCHMARK INDICES (BMI)

7.1. STOXX GLOBAL INDICES

7.1.1. OVERVIEW

In contrast to the STOXX Total Market family the STOXX Benchmarks are indices with a fixed number of constituents. They can be distinguished into the STOXX Global family covering all markets and a family covering only the three developed regional markets (Americas, Asia/Pacific, Europe). The latter one is represented by the STOXX Global 1800 and its sub-indices.

The STOXX Global indices are fixed-number indices which cover the largest stocks of the respective regional or country Total Market index in terms of free-float market capitalization. The basis for all indices is the STOXX Global Total Market index.

The following regional indices are calculated:

- » STOXX Global 3000
- » STOXX Africa 90
- » STOXX All Europe 800
- » STOXX Americas 1200
- » STOXX Asia 1200
- » STOXX BRIC 400
- » STOXX Developed Markets 2400
- » STOXX East Asia 1800
- » STOXX Eastern Europe 300
- » STOXX Emerging Markets 1500
- » STOXX Greater China 480
- » STOXX Hong Kong All Shares 180
- » STOXX Latin America 200
- » STOXX Pacific 100

Note: The STOXX Global 3000 is not an aggregate of the regional benchmark indices Americas, All Europe, Asia and Pacific.

The following country indices are calculated:

- » STOXX Australia 150
- » STOXX Canada 240
- » STOXX China A-900
- » STOXX France 90
- » STOXX Hong Kong 210
- » STOXX Italy 45
- » STOXX Japan 600
- » STOXX Singapore 75
- » STOXX South Korea 200
- » STOXX Spain 30
- » STOXX UK 180
- » STOXX USA 500
- » STOXX USA 900

Universe: The universe is defined by the Total Market indices of the specific region or country.

7. STOXX BENCHMARK INDICES (BMI)

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: The following base values and dates apply: 100 on January 31, 2011

For a complete list please consult the data vendor code sheet on the website⁶.

Index types and currencies: Price, gross return and net return in EUR and USD.

Dissemination calendar: STOXX Europe calendar except STOXX USA 500 (STOXX Americas calendar)

7.1.2. INDEX REVIEW

Component Selection

Target coverage: Largest companies in the respective TMI in terms of Free-Float Market capitalization; for each company only the most liquid stock is considered. The parent of the STOXX USA 500 is the STOXX USA 900.

A liquidity filter is applied for the STOXX Japan 600 selection. It filters out all companies where the 3 months Average Daily Traded Value (ADTV) is smaller than the maximum of (75% percentile of the 3 months ADTVs in STOXX Japan TMI or 0.5m EUR).

Review procedures: On the quarterly review date the eligible stocks are ranked in terms of free-float market capitalization to produce the index selection list.

Buffer Rule: A 10% buffer rule applies to select the constituents (except for Eastern Europe) for the regional indices and country benchmark indices.

Index Name	Components	Upper buffer	Lower buffer
STOXX Africa 90	90	81	99
STOXX All Europe 800	800	720	880
STOXX Americas 1200	1200	1080	1320
STOXX Asia 1200	1200	1080	1320
STOXX BRIC 400	400	360	440
STOXX Developed Markets 2400	2400	2160	2640
STOXX East Asia 1800	1800	1620	1980
STOXX Eastern Europe 300	300	275	375
STOXX Emerging Markets 1500	1500	1350	1650
STOXX Global 3000	3000	2700	3300
STOXX Greater China 480	480	432	528
STOXX Hong Kong All Shares 180	180	162	198

⁶ http://www.STOXX.com/download/indices/vendor_codes.xls

7. STOXX BENCHMARK INDICES (BMI)

STOXX Latin America 200	200	180	220
STOXX Pacific 100	100	90	110

Country indices:

Index Name	Components	Upper buffer	Lower buffer
STOXX Australia 150	150	135	165
STOXX Canada 240	240	216	264
STOXX China A-900	900	810	990
STOXX France 90	90	81	99
STOXX Greater China 480	480	432	528
STOXX Hong Kong 210	210	189	231
STOXX Hong Kong All Shares 180	180	162	198
STOXX Italy 45	45	40	50
STOXX Japan 600	600	540	660
STOXX Singapore 75	75	68	83
STOXX South Korea 200	200	180	220
STOXX Spain 30	30	27	33
STOXX UK 180	180	162	198
STOXX USA 500	500	450	550
STOXX USA 900	900	810	990

The table reads the following:

For the STOXX Global 3000 the largest 2700 stocks (upper buffer) on the selection list qualify for selection. The remaining 300 stocks (components needed minus the upper buffer) are selected from the largest remaining current components ranked between 2701 and 3300 (lower buffer). If the number of stocks selected is still below 3000, the largest remaining stocks are selected until there are enough stocks.

Review Frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last trading day of the month preceding the review month.

Weighting Cap Factors: The indices are uncapped except for the STOXX Eastern Europe 300 which is capped at 20% and the STOXX USA 500 which is capped at 10% on a component level.

Derived Indices: Sector sub-sets exist according to the ICB classification for STOXX Global 3000. A number of regions are calculated under exclusion of certain countries. For a complete list please consult the data vendor code sheet on the website⁶.

7. STOXX BENCHMARK INDICES (BMI)

Type	Index
Supersector	<Index> «ICB Supersector»
Sector	<Index> «ICB Sector»
Ex-Country indices	<Index> ex Country

7.1.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components constant, a deleted stock is replaced by the highest ranked non-component on the selection list. The selection list is updated on a monthly basis according to the review component selection process. During the review implementation month the published review component list is used as selection list.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-offs:

Each spin-off stock qualifies for addition, if it lies within the upper buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

7. STOXX BENCHMARK INDICES (BMI)

7.2. STOXX GLOBAL 1800 AND DERIVED INDICES

7.2.1. OVERVIEW

These indices are fixed component Benchmark indices covering the largest developed market stocks of the relevant regional Total Market Indices in terms of free-float market capitalization.

The parent component benchmark indices are:

STOXX North America 600

STOXX Asia/Pacific 600

STOXX Europe 600

STOXX Global 1800 (an aggregate of the regional 600s of Europe, the North America and Asia/Pacific)

Universe:

The following regional aggregates as defined in section 4.3 are calculated: Global (developed), North America, Asia/Pacific and Europe

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and date: 100 on December 31, 1991.

Index types and currencies: Price, net return and gross return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website⁷.

7.2.2. INDEX REVIEW

Selection list:

The STOXX <Region> 600 Benchmark indices are reviewed on a quarterly basis. The target coverage are the largest 600 companies in the relevant regional Total Market Index. The following criteria are applied:

- » for each company only the most liquid stock is considered
- » Stocks must have a minimum liquidity of greater than one million EUR measured over 3-month average daily trading volume (ADTV)

All eligible stocks are ranked in terms of free-float market capitalization to produce the selection list.

Component Selection:

The largest 550 stocks on the selection list qualify for selection. The remaining 50 stocks are selected from the largest remaining current components ranked between 551 and 750.

If the number of stocks selected is still below 600, the largest remaining stocks are selected until there are enough stocks.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last trading day of the month preceding the review month.

⁷ http://www.STOXX.com/download/indices/vendor_codes.xls

7. STOXX BENCHMARK INDICES (BMI)

Weighting cap factors: 20% on a component level for the following regional indices: Global, Europe, Asia/Pacific, North Americas and the Eurozone subset.

Derived indices and regional subsets:

Further regional subsets are derived from STOXX <Region> 600 Benchmark indices by including only selected countries according to the definitions in section 4.3 of this rule book. The sub-indices do not have a fixed number of constituents. Their constituent numbers depends on how their region is represented in the parent index.

E.g. for the Eurozone the index is derived in the following way: The STOXX Europe 600 is created as specified in this chapter. To obtain the EURO STOXX subset only the stocks with countries eligible for the Eurozone as defined in section 4.3 are chosen from the STOXX Europe 600.

Size and Sector indices:

Size indices and sector indices are derived according to the ICB industry classification for various regions. Further, for the STOXX Europe 600 and the EURO STOXX the following set of Supersector index families exists.

- » The STOXX Europe 600 Supersectors and EURO STOXX Supersectors 30-15 (please refer to chapter 7.5) cap the weight of the largest and second largest company in each Supersector at 30% and 15%.

Please refer to the following sections 7.3 to 7.6 for further details on the sizes and sector indices. For a complete list please consult the data vendor code sheet on the website⁸.

Region	Index
Global (developed)	STOXX Global 1800
Europe	STOXX Europe 600
Eurozone	EURO STOXX
Europe ex UK	STOXX Europe ex UK
Europe ex Euro	STOXX Europe ex Eurozone
Nordic	STOXX Nordic
Americas	STOXX North America 600
Asia/Pacific	STOXX Asia/Pacific 600
Asia/Pacific ex Japan	STOXX Asia/Pacific 600 ex Japan

Sector and Size Indices	Index
STOXX <Region>	<Index> <ICB Industry>
STOXX <Region>	<Index> <Supersector> (with 30% / 15% capping)
STOXX <Region>	<Index> <ICB Sector>*
STOXX <Region>	<Index> <ICB Subsector>*
STOXX <Region>	<Index> Large
STOXX <Region>	<Index> Mid
STOXX <Region>	<Index> Small

⁸ http://www.STOXX.com/download/indices/vendor_codes.xls

7. STOXX BENCHMARK INDICES (BMI)

*As some of these indices would not have enough components, not all indices are disseminated.

Ex-Sector Indices	Index
Ex- Financials (excluding ICB 8000)	STOXX Europe 600 ex- Financials
	EURO STOXX ex-Financials
Ex-Banks (excluding ICB 8300)	STOXX Europe 600 ex- Banks
	EURO STOXX ex-Banks
Ex-Country indices	<Index> ex Country

The ex-Banks and ex-Financial indices use cap factors of the parent indices.

7.2.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components constant, a deleted stock is replaced by the highest-ranked non-component on the selection list in the parent index. The selection list is updated on a monthly basis according to the review component selection process. During the review implementation month the published review component list is used as selection list.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs

Each spin-off stock qualifies for addition, if it lies within the upper buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

7. STOXX BENCHMARK INDICES (BMI)

7.3. SIZE INDICES BASED ON THE STOXX GLOBAL INDICES

7.3.1. OVERVIEW

The Size indices are fixed component indices that divide their benchmark index into three size categories by free-float market capitalization: Large, Mid and Small. They also exist for various sub-regions and countries, e.g. the STOXX Europe 600, the EURO STOXX and STOXX Eastern Europe 300.

Universe:

The following regional aggregates as defined in section 4.3 are calculated: North America, Asia/Pacific, Europe, Eastern Europe, Emerging Markets, USA, Japan, China A.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and date: 100 on December 31, 1991.

Index types and currencies: Price, net return and gross return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website⁹.

7.3.2. INDEX REVIEW

The components of the Size indices are derived from their respective STOXX <Region> Benchmark index. E.g. the STOXX Global 1800 serves as basis for the STOXX Global 1800 Size indices and the STOXX Europe 600 accordingly for the STOXX Europe 600 Size indices.

Selection list:

After the review of the STOXX regional Benchmark Index has been conducted according to chapters 7.1 and 7.2, all components are ranked by the free-float market capitalization to produce the review selection list for the size indices.

Composition list:

Large-Size indices (28⅓% - 38⅓% buffer rule)

Target coverage: Largest ⅓ (33⅓%) of the companies from the relevant fixed component index:

1. The largest 28⅓% stocks on the selection list are selected.
2. The remaining 5% stocks are selected from the largest remaining current components of the according fixed component index, ranked between 28⅓% and 38⅓%.
3. If the number of stocks selected is still below 33⅓%, the largest remaining stocks are selected until there are sufficient stocks in the index.

Mid-Size indices (58⅓% – 75% buffer rule)

Target coverage: The medium ⅓ (33⅓%) of the companies from the relevant fixed component index:

1. The largest 58⅓% stocks on the selection list qualify for selection. Out of these 58⅓% stocks, 33⅓% are already selected in the previous step for the Large-Size index, thus only the remaining 25% are selected for the relevant Mid index.

⁹ http://www.STOXX.com/download/indices/vendor_codes.xls

7. STOXX BENCHMARK INDICES (BMI)

2. To achieve the full coverage of the Mid-Size Index the missing 8⅓% stocks are selected from the largest remaining current Large and Mid-components ranked between 58⅓% and 75%.
3. If the number of stocks selected is still below 33⅓%, the largest remaining stocks from the selection list are selected.

Small-Size indices

The remainder 1/3 (33⅓%) of stocks of the selection list is considered a Small component.

Table for the applied buffer rules of selected indices:

Size /Buffer	STOXX Europe 600	STOXX Eastern Europe 300	STOXX China A 900
Target coverage per Size Index	200	100	300
Large (upper buffer)	170	85	255
Large (lower buffer)	230	115	345
Mid (upper buffer)	350	175	525
Mid (lower buffer)	450	225	675
Small (lower buffer)	600	300	900

Review frequency: The indices are reviewed on a quarterly basis together with the fixed component benchmark indices.

Weighting cap factors: 20% on a component level for the Europe, North America, Asia/Pacific, Eurozone and Eastern Europe regions

Derived indices and regional subsets:

Further regional subsets are derived from the Size indices by including only selected countries according to the definitions in section 4.3 of this rule book. The sub-indices do not have a fixed number of constituents. Their constituent numbers depends on how their region is represented in the parent index.

E.g. for the Eurozone the size indices are derived in the following way: The STOXX Europe 600 is created as specified in chapter 7.2. The STOXX Europe Large 200 is derived as specified in this chapter based on the previously created STOXX Europe 600. To obtain the EURO STOXX Large only the stocks with countries eligible for the Eurozone as defined in section 4.3 are chosen from the STOXX Europe Large 200. All EURO STOXX size indices sum-up again to the parent index, the EURO STOXX.

Region	Index Name
Global	STOXX Global 3000 <size>
Europe	STOXX Europe <Size> 200
Eurozone	EURO STOXX <Size>
Europe ex UK	STOXX Europe ex UK <Size>
Europe ex Euro	STOXX Europe ex Eurozone <Size>
Emerging Markets	STOXX Emerging Markets <Size> 500
Nordic	STOXX Nordic <Size>

7. STOXX BENCHMARK INDICES (BMI)

Americas	STOXX North America <Size> 200
Asia/Pacific	STOXX Asia/Pacific <Size> 200
Asia/Pacific ex Japan	STOXX Asia/Pacific 600 ex Japan <Size>

Ex-Sector Indices	Index
Ex- Financials (excluding ICB 8000)	STOXX Europe Large 200 ex- Financials
	EURO STOXX Large ex-Financials
Ex-Banks (excluding ICB 8300)	STOXX Europe Large 200 ex- Banks
	EURO STOXX Large ex-Banks

The ex-Banks and ex-Financial indices use cap factors of the parent indices.

7.3.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components, a deleted stock is replaced with the highest-ranked non-component on the selection list. The selection list is updated on a monthly basis according to the review component selection process.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the parent index also apply for the size indices.

7. STOXX BENCHMARK INDICES (BMI)

7.4. SECTOR INDICES BASED ON THE STOXX GLOBAL INDICES

7.4.1. OVERVIEW

The STOXX Global indices are divided into sector indices according to the ICB industry classification into Industry, Supersectors, Sectors and Subsectors and reflect the exposure to a certain sector in terms of free-float market capitalization. Regional sub-indices exist which then again are divided into sector indices according to the ICB industry classification and reflect the exposure to a certain sector in the specific region in terms of free-float market capitalization.

Universe:

The following regional aggregates as defined in section 4.3 are calculated: Global (developed), America, Asia/Pacific, Europe, Eurozone, Eastern Europe and Nordic

Weighting scheme: The indices are free-float market capitalization-weighted.

Base value and date: 100 on December 31, 1991.

Index types and currencies: Price, net return and gross return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website¹⁰.

7.4.2. INDEX REVIEW

Component selection:

The components of the STOXX <Region> Sector Index are derived from their respective STOXX <Region> Benchmark according to the ICB standard. E.g. the STOXX Global 1800 serves as basis for the STOXX Global 1800 Sector indices, the STOXX Europe 600 for the STOXX Europe 600 Sector indices and the EURO STOXX accordingly for the EURO STOXX Sector indices.

Please note for the STOXX Europe 600 and EURO STOXX the following set of Supersector index families exists.

The STOXX Europe 600 Supersectors and EURO STOXX 30-15 Supersectors (please refer to chapter 7.5) cap the weight of the largest and second largest company in each Supersector at 30% and 15%.

Review frequency: The indices are reviewed on a quarterly basis together with the STOXX Total Market indices.

Weighting cap factors: The components are not subject to component weight restrictions and capping.

Derived indices:

Region	Supersector Index
Global (developed)	STOXX Global 1800 <ICB Supersector >
Europe	STOXX Europe 600 <ICB Supersector >
Eurozone	EURO STOXX <ICB Supersector >
Europe ex Euro	STOXX Europe ex Eurozone <ICB Supersector >

¹⁰ http://www.STOXX.com/download/indices/vendor_codes.xls

7. STOXX BENCHMARK INDICES (BMI)

Americas	STOXX North America 600 < ICB Supersector >
Asia/Pacific	STOXX Asia/Pacific 600 < ICB Supersector>
Asia/Pacific ex Japan	STOXX Asia/Pacific 600 ex Japan < ICB Supersector>
Eastern Europe (parent index)	STOXX Eastern Europe Total Market < ICB Supersector>
Eastern Europe	STOXX Eastern Europe 300 < ICB Supersector >
<hr/>	
Sector Indices	Index
STOXX <Region>	<Index> <ICB Industry>
STOXX <Region>	<Index> <ICB Supersector>
STOXX <Region>	<Index> <ICB Sector>*
STOXX <Region>	<Index> <ICB Subsector>*

*As some of these indices would not have enough components, not all indices are disseminated.

7.4.3. ONGOING MAINTENANCE

Replacements: All changes affecting the STOXX regional Benchmark index also apply for the STOXX sector indices.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the STOXX Benchmark index also apply for the STOXX sector indices.

7. STOXX BENCHMARK INDICES (BMI)

7.5. STOXX EUROPE 600 AND EURO STOXX SUPERSECTOR INDICES: 30% / 15% CAPS

7.5.1. OVERVIEW

The STOXX Europe 600 Index, covering the 600 largest companies in Europe, is divided into 19 Supersectors according to the ICB industry classification and reflects the exposure to a certain sector in terms of free-float market capitalization. Due to narrow underlying universe per Supersector index, but also to reflect the market appropriately the indices are capped at 30% for largest and 15% for the second largest constituent.

Universe:

The following regional aggregates as defined in section 4.3 are calculated: Europe, Eurozone

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and date: 100 on December 31, 1991.

Index types and currencies: Price, net return and gross return in EUR and USD.

7.5.2. INDEX REVIEW

Component selection: The STOXX Europe 600 Supersectors are derived from the STOXX Europe 600 Index and the EURO STOXX Supersectors 30-15 from the EURO STOXX according to the ICB classification.

Review frequency: The indices are reviewed on a quarterly basis together with the STOXX Total Market indices.

Weighting cap factors: All components of each supersector index are subject to a 30% capping for the largest company and a 15% capping for the second-largest company. The weighting cap factors are published on the second Friday of the quarter, one week prior to quarterly review implementation, and calculated using Thursday's closing prices.

An intra-quarter capping will be triggered if the largest company exceeds 35% or the second-largest exceeds 20%. The process is as follows:

Date t: Weight exceeds 35% / 20% at the close of market

Date t+1: Announcement of the new weighting cap factors (30% / 15%) after close of market

Date t+3: Implementation of the new capping factors after close of market.

Date t+4: Effective date

Note: Violations of the 35 / 20 threshold between dates t+1 and t+3 do not trigger another capping.

Please note for the STOXX Europe 600 and the EURO STOXX the following set of Supersector index families exists. In addition to the index family described in this chapter the EURO STOXX Supersectors (please refer to chapter 7.4) reflects the pure exposure of the Free-Float Market capitalization of each company in their Supersector without capping restrictions.

Derived indices: Not applicable. The indices are separate indices and not related to any other regional or sector indices due to their special capping procedure on the individual constituents.

7. STOXX BENCHMARK INDICES (BMI)

7.5.3. ONGOING MAINTENANCE

Replacements: All changes affecting the STOXX Europe 600 and subindices also apply for the capped indices.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the STOXX Europe 600 and subindices indices also apply for the capped indices.

7. STOXX BENCHMARK INDICES (BMI)

7.6. STOXX REGIONAL REAL ESTATE INDICES: 20% CAPS

7.6.1. OVERVIEW

STOXX Global Benchmark Real Estate indices cover the real estate supersectors for Europe, Americas and Asia / Pacific in terms of free-float market capitalization. Compared to the normal supersector indices they have a cap of 20% imposed on a component level.

Universe:

Europe: STOXX 600 Europe companies with ICB supersector code 8600

Americas: STOXX 600 Americas companies with ICB supersector code 8600

Asia Pacific: STOXX 600 Asia Pacific companies with ICB supersector code 8600

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and dates: 100 on December 31, 1991.

Index types and currencies: Price, net return and gross return in EUR and USD.

7.6.2. INDEX REVIEW

Component selection: The Real Estate Capped indices are derived from the STOXX <Regional> 600 index according to the ICB standard.

Review frequency: The indices are reviewed on a quarterly basis together with the STOXX Total Market indices.

Weighting cap factors: A component capping of 20% is applied.

Derived indices: Not applicable.

7.6.3. ONGOING MAINTENANCE

Replacements: All changes affecting the STOXX Regional 600 Index apply for the Real Estate indices.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: All changes affecting the STOXX Regional 600 Index apply for the Real Estate indices.

7. STOXX BENCHMARK INDICES (BMI)

7.7. STOXX EMERGING MARKETS 800 LO

7.7.1. OVERVIEW

The STOXX Emerging Markets 800 LO (Liquidity Optimized) index is derived from the STOXX Emerging Markets 1500 index, covering the largest 800 companies in the emerging markets.

Universe: The universe is defined by the STOXX Emerging Markets 1500 index.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: 100 as of Dec. 21, 2012.

Index types and currencies: Price, net return, gross return in EUR and USD.

7.7.2. INDEX REVIEW

Selection list: On the quarterly review date the eligible stocks are ranked in terms of free-float market capitalization and companies with a three-month average daily traded value (ADTV) less than EUR 0.5m are excluded to produce the index selection list.

Composition list: A 10% buffer rule applies to select the constituents

Index Name	Components	Upper buffer	Lower buffer
STOXX Emerging Markets 800 LO	800	720	880

Review frequency: The index is reviewed on a quarterly basis together with the STOXX Emerging Markets 1500 index.

Weighting cap factors: The following capping procedure is applied:

1. If the weighting of a component is above the weighted average ADTV it is reduced to that value by introducing a liquidity scaling factor (see chapter 5.15.2 Liquidity Scaling Factors in for calculation).
2. A cap factor of 10% is applied.

Both factors are multiplied and applied as one cap factor.

7.7.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components constant, a deleted stock is replaced by the highest ranked non-component on the selection list. The selection list is updated on a monthly basis according to the review component selection process. During the review implementation month the published review component list is used as selection list.

Fast exit: Not applicable.

Fast entry: Not applicable.

7. STOXX BENCHMARK INDICES (BMI)

Spin-offs: Each spin-off stock qualifies for addition, if it lies within the upper buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

8. STOXX EQUAL WEIGHT INDICES

8.1. STOXX EQUAL WEIGHT INDICES

8.1.1. OVERVIEW

The STOXX Equal Weight indices consists of the same stocks as the standard free-float market capitalization weighted indices, but use a different weighting scheme. All stocks are equal-weighted at the periodic index review.

Universe: The index universe is defined by the parent index.

Weighting scheme: The index is price-weighted with a weighting factor to achieve an equal-weighting

Base value and date: For STOXX USA 900 Equal Weight and STOXX Japan 600 Equal Weight: 100 on March 18, 2002. For all others: defined by the parent index. Please consult the data vendor code sheet for further details.

Index types and currencies: For STOXX Japan 600 Equal Weight: price, net return and gross return in EUR and JPY. For all others: defined by the parent index. For a complete list please consult the data vendor code sheet on the website¹¹.

8.1.2. INDEX REVIEW

Component selection: Identical as the parent index.

The following indices are available as equal weight version:

- » STOXX Europe 600 (please refer to chapter 7.2 for details)
- » STOXX USA 900 (please refer to chapter 7.1 for details)
- » STOXX Japan 600 (please refer to chapter 7.1 for details)
- » EURO STOXX 50 (please refer to chapter 9.2 for details)
- » STOXX China A 50 (please refer to chapter 9.1 for details)
- » STOXX Strong Balance Sheet indices (please refer to chapter 12.4 for details)

Review frequency: The index is reviewed in line with the parent index.

Weighting cap factors: All components are equal-weighted on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Weighting cap factor = $(100,000,000,000 / \text{closing price of the stock in EUR})$ and rounded to integers.

Derived indices: Not applicable.

8.1.3. ONGOING MAINTENANCE

Replacements: All changes affecting the parent index, e.g. the STOXX Europe 600, also apply to the respective STOXX Equal Weight index. The newly added component has the same weight as the deleted one.

¹¹ http://www.STOXX.com/download/indices/vendor_codes.xls

8. STOXX EQUAL WEIGHT INDICES

$$wf_{it} = \frac{wf_{jt} \cdot p_{jt}}{p_{it}}$$

wf_{it} = new weighting factor of replacement at time (t)

T = date of closing price for weighting factor calculation

wf_{jt} = weighting factor of index component (j) at time (t)

p_{jt} = price in EUR of index component (j) at time (t)

p_{it} = price in EUR of replacement company (i) at time (t)

Fast exit: Same as the parent index.

Fast entry: Same as the parent index

Spin-offs: Same as the parent index.

9. STOXX BLUE-CHIP INDICES

9.1. STOXX GLOBAL AND COUNTRY BLUE-CHIP INDICES

9.1.1. OVERVIEW

The STOXX Global and Country Blue-chip indices are fixed-number indices, whose components are the largest companies by free-float market capitalization of their geographic region defined by the respective benchmark indices.

Global / regional blue-chip indices are:

- » STOXX Global 200
- » STOXX BRIC 100
- » STOXX Developed Markets 150
- » STOXX Emerging Markets 50
- » STOXX Emerging Markets 50 ex BRIC
- » STOXX Americas 100
- » STOXX Latin America 50
- » STOXX Asia 100
- » STOXX Greater China 80
- » STOXX Hong Kong All Shares 50
- » STOXX Pacific 50
- » STOXX East Asia 80
- » STOXX East Asia 80 ex Japan
- » STOXX All Europe 100
- » STOXX EU Enlarged 15
- » STOXX Eastern Europe 50
- » STOXX Sub Balkan 30

Country blue-chip indices are:

- » STOXX Australia 50
- » STOXX Canada 50
- » STOXX China A 50
- » STOXX France 50
- » STOXX Hong Kong 50
- » STOXX Italy 20
- » STOXX Japan 50
- » STOXX Singapore 20
- » STOXX Spain 20
- » STOXX UK 50
- » STOXX USA 50

Note: the STOXX Global 200 is not an aggregate of the regional blue-chip indices Americas, All Europe, Asia and Pacific, all regions are reviewed independently.

Universe: The universe is defined by the Benchmark or Total Market indices of the specific region or country.

Weighting scheme: The indices are free-float market capitalization weighted.

Base value and date: 1000 on January 31, 2011.

9. STOXX BLUE-CHIP INDICES

For a complete list please consult the data vendor code sheet on the website¹².

Index types and currencies: Price, net return and gross return in EUR, USD other versions. For a complete list please consult the data vendor code sheet on the website¹³.

9.1.2. INDEX REVIEW

Component selection: There is a minimum liquidity requirement for components: to be eligible, the 3-month average daily trading volume has to be at least EUR 1 million. Components are selected based on the free-float market capitalization and a 10% buffer rule applies for the ranking. If the number of stocks selected is still below required component count after applying the buffer rules the largest remaining stocks are selected until there are enough stocks.

The particular blue-chips index components are selected as follows:

STOXX Global 200

20 largest components of the regions (North America, Latin America, Asia, Pacific and All Europe) in terms of free-float market capitalization

100 largest remaining components (taking into account a 10% buffer rule; current components are eligible if ranked within 110) of the corresponding benchmark Index.

STOXX BRIC 100

- » 20 largest Brazil components of the STOXX BRIC benchmark Index (in terms of free-float market capitalization)
- » 20 largest Russia components of the STOXX BRIC benchmark Index (in terms of free-float market capitalization)
- » 20 largest India components of the STOXX BRIC benchmark Index (in terms of free-float market capitalization)
- » 20 largest China components of the STOXX BRIC benchmark Index (in terms of free-float market capitalization)
- » 20 largest remaining components (taking into account of the 10% upper buffer rule) of the STOXX BRIC benchmark Index (in terms of free-float market capitalization)

STOXX Americas 100 (90 – 110 buffer rule)

20 largest components of North America (in terms of free-float market capitalization)

20 largest components of Latin America (in terms of free-float market capitalization)

60 largest remaining components (taking into account the 10% buffer rule) of the STOXX Americas benchmark Index (in terms of free-float market capitalization)

STOXX Eastern Europe 50 Index (40 – 60 buffer rule)

Target coverage: 50 Supersector leaders from the STOXX Eastern Europe 300 Index:

1. For each of the 19 STOXX Eastern Europe 300 Supersector indices, the stocks are ranked in terms of free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 80% of the free-float market capitalization of the

¹² http://www.STOXX.com/download/indices/vendor_codes.xls

¹³ http://www.STOXX.com/download/indices/vendor_codes.xls

9. STOXX BLUE-CHIP INDICES

corresponding STOXX Eastern Europe TMI Supersector Index. If the next highest-ranked stock brings the coverage closer to 80% in absolute terms, then it is also added to the selection list; all remaining STOXX Eastern Europe 50 stocks are then added to the selection list.

2. All the stocks on the selection list are then ranked in terms of free-float market capitalization and are screened for a minimum level of liquidity to produce the STOXX Eastern Europe 50 Index selection list, of which only the largest 15 stocks per country are selected.
3. The largest 40 stocks on the selection list are selected; the remaining 10 stocks are selected from the largest remaining current stocks ranked between 41 and 60; if the number of stocks selected is still below 50, then the largest remaining stocks are selected until there are 50 stocks.
4. The minimum liquidity criteria of the parent indices apply.

STOXX EU Enlarged 15 Index (10 – 20 buffer rule)

Target coverage: The largest stocks in the STOXX EU Enlarged TMI. Only the most liquid stock class for each company in the STOXX EU Enlarged TMI is included.

1. All of the stocks on the selection list are ranked separately in terms of free-float market capitalization, gross revenue, and net income. The final ranking is calculated by weighting the free-float market capitalization rank at 60%, the gross revenue rank at 20% and the net income rank at 20%. In case two companies have the same rank the company with larger free float market capitalization is preferred.
2. The top 10 ranked stocks are selected. The remaining five stocks are selected from the highest remaining current stocks ranked between 11 and 20. If the number of stocks selected is still below 15, then the highest remaining stocks are selected until there are 15 stocks.
3. The minimum liquidity criteria of the parent indices apply.

STOXX Sub Balkan 30 Index (20 – 40 buffer rule)

Target coverage: 30 Supersector leaders of the STOXX Sub Balkan TMI. Only the most liquid stock class for each company in the STOXX Sub Balkan TMI is included.

1. For each of the 19 STOXX Sub Balkan Total Market Supersector indices, the stocks are ranked in terms of free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 80% of the free-float market capitalization of the corresponding STOXX Sub Balkan Total Market Supersector Index. If the next ranked stock brings the coverage closer to 80% in absolute terms, then it is also added to the selection list; all remaining STOXX Sub Balkan 30 stocks are then added to the selection list.
2. All the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the STOXX Sub Balkan 30 index selection list.
3. The largest 20 stocks on the selection list are selected, and the remaining 10 stocks are selected from the largest remaining current stocks ranked between 21 and 40. If the number of stocks selected is still below 30, the largest remaining stocks are selected until there are 30 stocks.
4. The minimum liquidity criteria of the parent indices apply.

STOXX East Asia 80 Index (72 – 88 buffer rule)

Target coverage: The largest stocks in STOXX East Asia 1800 Index. Secondary share lines, countries with a weighting of less than 2 percent in the STOXX East Asia 1800 Index, and countries with less than 2 securities in the STOXX East Asia 1800 index are excluded.

1. For each of the countries building up the East Asia region, the corresponding stocks of the STOXX East Asia 1800 Index are ranked in terms of free-float market capitalization. For each

9. STOXX BLUE-CHIP INDICES

country, the largest stocks are added to the selection list until the coverage is close to, but still less than, 60% of the free-float market capitalization of the corresponding country within the STOXX East Asia 1800. If the next ranked stock brings the coverage closer to 60% in absolute terms, then it is also added to the selection list.

2. All the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the STOXX East Asia 80 index selection list.
3. The largest 72 stocks on the selection list are selected, and the remaining 8 stocks are selected from the largest remaining current stocks ranked between 73 and 88. If the number of stocks selected is still below 80, the largest remaining stocks are selected until there are 80 stocks. In this step a maximum of 16 components per country can be selected. Once this number is reached stocks from that country are blocked from being selected.

STOXX East Asia 80 ex Japan Index

Variable number of components

All STOXX East Asia 80 components excluding stocks from Japan are selected.

For all other indices the following 10% buffer rules are applied:

E.g. for the STOXX All Europe 100 the largest 90 stocks (upper buffer) in terms of free-float market capitalization on the selection list qualify for selection. The remaining 10 stocks (components needed minus the upper buffer) are selected from the largest remaining current components ranked between 91 and 110 (lower buffer). If the number of stocks selected is still below 100, the largest remaining stocks are selected until there are enough stocks.

Index Name	Universe	Upper buffer	Lower buffer
STOXX Global 200	See above	n/a	n/a
STOXX BRIC 100	BRIC 400	n/a	n/a
STOXX Developed Markets 150	Developed Markets 2400	135	165
STOXX Emerging Markets 50	Emerging Markets 1500	45	55
STOXX Emerging Markets 50 ex BRIC	Emerging Markets 1500	n/a	n/a
STOXX Americas 100	See above	90	110
STOXX Latin America 50	Latin America 200	45	55
STOXX Asia 100	Asia 1200	90	110
STOXX Greater China 80	Greater China 480	72	88
STOXX Hong Kong All Shares 50	Hong Kong All Shares 180	45	55
STOXX Pacific 50	Pacific 100	45	55
STOXX East Asia 80	East Asia 1800	72	88
STOXX East Asia 80 ex Japan	East Asia 1800	n/a	n/a
STOXX All Europe 100	All Europe 800	90	110
STOXX EU Enlarged 15	EU Enlarged TMI	10	20
STOXX Eastern Europe 50	Eastern Europe 300	40	60
STOXX Sub Balkan 30	Sub Balkan TMI	20	40

9. STOXX BLUE-CHIP INDICES

Index Name	Universe	Upper buffer	Lower buffer
STOXX Australia 50	Australia TMI	45	55
STOXX Canada 50	Canada TMI	45	55
STOXX China A-50	China A TMI	45	55
STOXX France 50	France TMI	45	55
STOXX Hong Kong 50	Hong Kong TMI	45	55
STOXX Italy 20	Italy TMI	18	22
STOXX Japan 50	Japan TMI	45	55
STOXX Singapore 20	Singapore TMI	18	22
STOXX Spain 20	Spain TMI	18	22
STOXX UK 50	UK TMI	45	55
STOXX USA 50	USA TMI	45	55

Review frequency: The index is reviewed annually in September. The review cut-off date is the last trading day of August. The STOXX Eastern Europe 50 Index is reviewed semi-annually in March and September based on the last trading day of the previous month.

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on Wednesday, two trading days prior to quarterly review implementation, using Tuesday's closing prices.

For the STOXX EU Enlarged 15 Index a cap factor of 15% is applied.

For the STOXX Eastern Europe 50 Index, the weight of each country is capped at 50% and if the weighting of a stock is greater than 10%, its weighting cap factor is adjusted to reduce the weighting to 10% and the weight is reallocated within the remaining stocks of that country.

For the STOXX East Asia 80 Index and the STOXX East Asia 80 ex Japan Index each country's weight is capped at 20% and if the weighting of a stock is greater than 10%, its weighting cap factor is adjusted to reduce the weighting to 10% and the weight is reallocated within the remaining stocks of that country.

Derived indices: not applicable

9.1.3. ONGOING MAINTENANCE

Replacements: A deleted stock is replaced immediately to maintain the fixed number of stocks. Usually, the replacement is based on the latest selection list that is updated monthly. In case of merger and acquisition where a blue-chip stock is involved, the original stock is replaced by the new stock.

If a stock is deleted from the corresponding STOXX Regional Benchmark Index in between the regular review dates, but is still a component of the STOXX Regional TMI, this stock will remain in the STOXX Blue-Chip Index until the next regular review.

Fast exit: Not applicable.

9. STOXX BLUE-CHIP INDICES

Fast entry: An initial public offering (IPO) stock is reviewed for fast-track addition to the blue-chip indices at the next quarterly review.

The IPO stock is added if it:

Qualifies for the latest blue-chip selection list, i.e. the February, May, August or November blue-chip selection lists;

ranked within the lower buffer on this selection list, and

was the largest non-component on this selection list.

If added, the IPO stock replaces the smallest stock in the Blue-Chip Index.

Spin-offs

Each spin-off stock qualifies for addition, if it lies within the upper buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

9. STOXX BLUE-CHIP INDICES

9.2. EURO STOXX 50

9.2.1. OVERVIEW

The EURO STOXX 50 is derived from the EURO STOXX index and represents the largest Supersector leaders in the Eurozone in terms of free-float market capitalization.

Universe: The index universe are stocks in the Eurozone region defined by the EURO STOXX index.

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and dates: 1000 on December 31, 1991.

Index types and currencies: Price, gross return and net return in EUR, USD, CAD, GBP and JPY.

For a complete list please consult the data vendor code sheet on the website¹⁴.

9.2.2. INDEX REVIEW

Component selection

EURO STOXX 50 index (40 – 60 buffer rule)

Target coverage: 50 Supersector leaders from the EURO STOXX index:

1. For each of the 19 EURO STOXX Supersector indices, the stocks are ranked in terms of free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 60% of the free-float market capitalization of the corresponding EURO STOXX TMI Supersector Index. If the next highest-ranked stock brings the coverage closer to 60% in absolute terms, then it is also added to the selection list. All current EURO STOXX 50 Index stocks are added to the selection list.
2. All the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the final index selection list.
3. The largest 40 stocks on the selection list are selected; the remaining 10 stocks are selected from the largest remaining current stocks ranked between 41 and 60; if the number of stocks selected is still below 50, then the largest remaining stocks are selected until there are 50 stocks.

The minimum liquidity criteria of the parent index, EURO STOXX index applies.

Review frequency: The index is reviewed annually in September. The review cut-off date is the last trading day of August.

¹⁴ http://www.STOXX.com/download/indices/vendor_codes.xls

9. STOXX BLUE-CHIP INDICES

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on Wednesday two trading days prior to quarterly review implementation using Tuesday's closing prices.

Derived indices:

Category	Index
Ex- Financials (excluding ICB 8000)	EURO STOXX 50 ex- Financials
Ex-Banks (excluding ICB 8300)	EURO STOXX ex- Banks
Country sub-indices	EURO STOXX 50 France, Italy, Spain, Germany and Netherlands
Ex-Country indices	EURO STOXX 50 ex Country (e.g. France, Italy, Germany, Spain...)

The ex-Banks and ex-Financial indices use cap factors of the parent index.

9.2.3. ONGOING MAINTENANCE

Replacements: A deleted stock is replaced immediately to maintain the fixed number of stocks. The replacement is based on the latest selection list that is updated monthly. In case of merger and acquisition where a blue-chip stock is involved, the original stock is replaced by the new stock. If a stock is deleted from the EURO STOXX in between the regular review dates but is still a component of the STOXX Regional TMI, then this stock will remain in the EURO STOXX 50 Index until the next regular review.

Fast exit

The components are monitored for any changes based on the monthly selection list ranking, i.e. on an ongoing monthly basis.

A component is deleted if:

- » it ranks 75 or below on the monthly selection list; and
- » it ranked 75 or below or below on the selection list of the previous month

The announcement will be on the first trading day of the month after close of markets.

The addition will be announced based on the monthly selection list, i.e. the highest-ranked non-component will be selected. Changes will be implemented on the close of the fifth trading day and are effective the next trading day.

Fast entry

All stocks on the latest selection lists and initial public offering (IPO) stocks are reviewed for a fast-track addition on a quarterly basis. A stock is added, if

- » it qualifies for the latest blue-chip selection list generated end of February, May, August or November; and
- » it ranks within the lower buffer (ranks 1 - 25) on this selection list

9. STOXX BLUE-CHIP INDICES

If it is added, the stock replaces the smallest stock in the Blue-Chip Index. The announcement will be on the first trading day of the month after close of markets. The implementation is together with the STOXX Total Market indices.

Spin-offs

Each spin-off stock qualifies for addition if it lies within the lower buffer (ranks 1 – 40) on the latest selection list for the index. The spin-off replaces the lowest ranked stock in that index as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

9. STOXX BLUE-CHIP INDICES

9.3. STOXX REGIONAL BLUE-CHIP INDICES

9.3.1. OVERVIEW

The Blue-chip indices are derived from regional subsets of the STOXX Global 1800. The indices cover the largest Supersector leaders of their region in terms of free-float market capitalization.

STOXX Europe 50, selected from the STOXX Europe 600 Index

STOXX Nordic 30, selected from STOXX Nordic Total Market Index

STOXX Asia/Pacific 50, selected from the STOXX Asia/Pacific 600 Index

STOXX North America 50, selected from the STOXX North America 600 Index

For the EURO STOXX 50 please refer to chapter 9.2.

Universe: The index universe is defined as all stocks from regional aggregates as defined in section 4.3: Europe, Nordic, North America and Asia/Pacific.

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and dates: 1000 on December 31, 1991.

Index types and currencies: Price, gross return and net return in EUR, USD and other versions. For a complete list please consult the data vendor code sheet on the website¹⁵.

9.3.2. INDEX REVIEW

Component selection

For all indices the minimum liquidity criteria of the parent indices apply.

STOXX Europe 50 index (40 – 60 buffer rule)

Target coverage: 50 Supersector leaders from the STOXX Europe 600 index:

1. For each of the 19 STOXX regional 600 Supersector indices, the stocks are ranked in terms of free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 60% of the free-float market capitalization of the corresponding STOXX Regional TMI Supersector Index. If the next highest-ranked stock brings the coverage closer to 60% in absolute terms, then it is also added to the selection list. All current STOXX Europe 50 Index stocks are then added to the selection list.
2. All the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the final index selection list.
3. The largest 40 stocks on the selection list are selected; the remaining 10 stocks are selected from the largest remaining current stocks ranked between 41 and 60; if the number of stocks selected is still below 50, then the largest remaining stocks are selected until there are 50 stocks.

¹⁵ http://www.STOXX.com/download/indices/vendor_codes.xls

9. STOXX BLUE-CHIP INDICES

STOXX Nordic 30 Index (20 – 40 buffer rule)

Similarly, target coverage of 30 Supersector leaders from the STOXX Nordic Total Market Index (excluding secondary share lines) and a 80% Supersector coverage.

STOXX Asia/Pacific 50 Index (40 – 60 buffer rule)

Similarly, target coverage of 50 Supersector leaders from the STOXX Asia/Pacific 600 index.

STOXX North America 50 Index (40 – 60 buffer rule)

Similarly, target coverage of 50 Supersector leaders from the STOXX North America 600 index.

Review frequency: The indices are reviewed annually in September. The review cut-off date is the last trading day of August.

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on Wednesday two trading days prior to quarterly review implementation using Tuesday's closing prices.

9.3.3. ONGOING MAINTENANCE

Replacements: A deleted stock is replaced immediately to maintain the fixed number of stocks. Usually, the replacement is based on the latest selection list that is updated monthly. In case of merger and acquisition where a blue-chip stock is involved, the original stock is replaced by the new stock. If a stock is deleted from the STOXX Regional Benchmark Indices (e.g. STOXX Europe 600) in between the regular review dates but is still a component of the STOXX Regional TMI, then this stock will remain in the STOXX Blue-Chip Index until the next regular review.

Fast exit

The components of the STOXX Europe 50, STOXX Nordic 30, STOXX Asia/Pacific 50 and STOXX North America 50 are monitored for any changes based on the monthly selection list ranking, i.e. on an ongoing monthly basis.

A component is deleted if:

- » it ranks 75 (50 for STOXX Nordic 30) or below on the monthly selection list; and
- » it ranked 75 (50 for STOXX Nordic 30) or below on the selection list of the previous month.

The announcement will be on the first trading day after close of markets.

The addition will be announced based on the monthly selection list, i.e. the highest-ranked non-component will be selected.

Changes will be implemented on the close of the fifth trading day and are effective the next trading day.

Fast entry

All stocks on the latest selection lists of the STOXX Europe 50, STOXX Nordic 30, STOXX Asia/Pacific 50 and STOXX North America 50 and initial public offering (IPO) stocks are reviewed for a fast-track addition on a quarterly basis. A stock is added, if

- » it qualifies for the latest blue-chip selection list generated end of February, May, August or November; and
- » it ranks within the lower buffer (ranks 1 – 25; for STOXX Nordic 30: ranks 1-15) on this selection list

9. STOXX BLUE-CHIP INDICES

If it is added, the stock replaces the smallest stock in the Blue-Chip Index. The announcement will be on the first trading day of the month after close of markets. The implementation is together with the STOXX Total Market indices.

Spin-offs

Each spin-off stock qualifies for addition, if it lies within the lower buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

9. STOXX BLUE-CHIP INDICES

9.4. STOXX GLOBAL 150

9.4.1. OVERVIEW

The STOXX Global 150 Blue-Chip Index is a combination of the regional STOXX Blue-Chip indices for North America, Asia Pacific and Europe which cover the supersector leaders of the respective region in terms of free-float market capitalization.

Universe: The index universe is defined as all stocks of the developed markets in Europe, North America and the Asia/Pacific region as defined in section 4.3.

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and date: 1,000 on December 31, 1991.

Index types and currencies: Price, net return in EUR and USD.

9.4.2. INDEX REVIEW

Component selection: The indices consist of the components of the STOXX Europe 50, STOXX Asia/Pacific 50 and STOXX North America 50. Each regional blue-chip consists of 50 stocks covering the largest Supersector leaders in the STOXX Asia/Pacific 600, STOXX North America 600 and STOXX Europe 600 indices.

Review frequency: The index is reviewed annually in September based on the closing prices of the last trading day in August.

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on Wednesday two trading days prior to quarterly review implementation date, using Tuesday's closing prices.

Derived indices: Not applicable.

9.4.3. ONGOING MAINTENANCE

Replacements: All changes affecting the STOXX Europe 50, STOXX Asia/Pacific 50 and STOXX North America 50 apply for the STOXX Global 150 Index.

Fast exit: The rules of the STOXX Europe 50, STOXX Asia/Pacific 50 and STOXX North America 50 apply.

Fast entry: The rules of the STOXX Europe 50, STOXX Asia/Pacific 50 and STOXX North America 50 apply.

Spin-offs: The rules of the STOXX Europe 50, STOXX Asia/Pacific 50 and STOXX North America 50 apply.

9. STOXX BLUE-CHIP INDICES

9.5. STOXX BALKAN 50 EQUAL WEIGHT

9.5.1. OVERVIEW

The STOXX Balkan 50 Equal Weight index represents blue-chip stocks from eight Balkan countries in terms of free-float market capitalization.

Universe: The index universe is defined as the following eight Balkan countries: Bulgaria, Croatia, Macedonia, Romania, Serbia, Slovenia Greece and Turkey.

Weighting scheme: The index is price-weighted with a weighting factor to achieve an equal-weighting

Base value and date: 1,000 as of December 31, 2006.

Index types and currencies: Price, net return in EUR and USD.

9.5.2. INDEX REVIEW

Component selection

STOXX Balkan 50 Equal Weight Index (5/3 - 15/7 buffer rule)

Target coverage: highest-ranked components in the STOXX Balkan Total Market Index by free-float market capitalization; only the most liquid stock class for each company in the STOXX Balkan TMI is included.

1. Selection process: For each country, companies are ranked by free-float market capitalization. The highest-ranked components (20 companies from Greece and Turkey, 10 companies from Bulgaria, Croatia, Macedonia, Romania, Serbia and Slovenia) are chosen for the selection list. The selection list of each country is ranked first by free-float market capitalization and second by liquidity (average daily traded value for the past three months). The final rank is calculated from the average of the two ranks. If two or more companies have the same final ranking, then their free-float market capitalization is used as a tie-breaker.
2. Selection list: The top five ranked stocks are selected for Greece and Turkey. The top three ranked stocks are selected for all other countries. The remaining five stocks for Greece and Turkey are selected from the highest remaining current stocks ranked between six and fifteen. The remaining two stocks for all other countries are selected from the highest remaining current stocks ranked between four and seven. If the number of stocks selected is still below ten for Greece and Turkey, and five for the other countries, then the highest remaining stocks are selected until there are enough stocks.

Review frequency: The index is reviewed annually in September based on the closing prices of the last trading day of the previous month.

Weighting cap factors: All components are equal-weighted. The weighting cap factors are published on the second Friday of the quarter, one week prior to quarterly review implementation using Thursdays' closing prices.

Weighting cap factor = $(100,000,000,000 / \text{closing price of the stock in EUR})$, rounded to integers.

Derived indices: Not applicable.

9. STOXX BLUE-CHIP INDICES

9.5.3. ONGOING MAINTENANCE

Changes are announced immediately, implemented two trading days later and are effective on the next trading day.

Replacements: In case of merger and acquisition, the original stock is replaced by the surviving stock, if it was a component of the same country. Otherwise the highest-ranked non-component on the relevant country selection list qualifies. The selection list is updated on a quarterly basis according to the review component selection procedure. An addition is added at the same weight as the removed company .

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs

Each spin-off stock qualifies for addition, if it lies within the upper buffer on the latest selection list for the specific index. The spin-off replaces the lowest ranked stock in that index, as determined by the selection list.

Qualifying spin-off stocks are added in sequence:

The largest qualifying spin-off stock replaces the original stock in the index.

The next qualifying spin-off stock replaces the lowest ranked stock in the index.

Likewise for the other qualifying spin-off stocks.

9. STOXX BLUE-CHIP INDICES

9.6. STOXX CANADA 60

9.6.1. OVERVIEW

The STOXX Canada 60 Index represents the performance of the 60 largest Canadian companies by free-float market capitalization from among the 10 ICB Industries. It is an industry neutral index and is derived from the STOXX Canada 240 index.

Universe: The index universe is defined as the new composition of the STOXX Canada 240 index which becomes effective on the review date, on the Monday following the 3rd Friday of March, June, September and December.

Weighting scheme: The index is free float market cap weighted with a cap factor in order to maintain industry neutrality with respect to the STOXX Canada 240 index.

Base values and dates: 100 on March 19, 2007

For a complete list please consult the data vendor code sheet on the website¹⁶. Customized solutions can be provided upon request.

Index types and currencies: Price, net return and gross return in CAD, USD and EUR.
For a complete list please consult the data vendor code sheet on the website

9.6.2. INDEX REVIEW

Selection list: The Selection list is obtained by selecting from the universe (defined above) all the stocks which fulfil the following criteria based on data as of last trading day of the month prior to the respective review month.

13. Liquidity: The 3-month average daily trading volume has to be at least EUR 1 million.
 14. For each of the 10 ICB industries in the STOXX Canada 240 index, the stocks are ranked in terms of free float market capitalization. The largest stocks are added to the selection list until the coverage is close to 90% of the free-float market capitalization of the corresponding ICB industry in the STOXX Canada 240 index. If the next highest-ranked stock brings the coverage closer to 90% in absolute terms, then it is also added to the selection list.
 15. All current STOXX Canada 60 Index stocks are added to the selection list.
- All the stocks in the selection list are then ranked in terms of free-float market capitalization.

Composition list: Target Coverage: The largest 60 companies from the Selection list based on their free-float market capitalization; a 20% buffer rule applies for the ranking.

The upper buffer is 48 and the lower buffer is 72. This means, the largest 48 stocks by free-float market capitalization on the selection list qualify for selection.

¹⁶ http://www.STOXX.com/download/indices/vendor_codes.xls

9. STOXX BLUE-CHIP INDICES

The remaining 12 stocks are selected from the largest current components ranked between 48 and 72.

If the number of stocks selected is still below 60 after applying the buffer rules, the largest remaining stocks from the Selection list are selected until there are enough stocks.

Review frequency: The index is reviewed on a quarterly basis in line with the STOXX Canada 240 index.

Weighting and capping factors: The index follows a sector neutral approach with respect to the Canada 240 Index. The sector neutrality is enforced by equating the ICB Industry weights of the STOXX Canada 60 Index with that of the Canada 240 Index. For the capping procedure, the new components of Canada 240 that become effective on the review date (Monday following the 3rd Friday of March, June, September, December) are used. The industry weights of the Canada 240 as well as the STOXX Canada 60 Index are calculated on the Wednesday before the third Friday of the review month using Tuesday's close prices.

- Within each industry of the STOXX Canada 60 Index, all components are weighted based on their free float market capitalization.
- In case there is no representation of a particular industry in the STOXX Canada 60 Index, but this industry is represented in the Canada 240 Index, the weight of the corresponding industry in the Canada 240 Index is distributed among the other industry in the STOXX Canada 60 index in the proportion of their existing industry weights.
- The weighting cap factors are published on Wednesday, two trading days prior to quarterly review implementation, using the previous day's closing prices.

9.6.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components constant, a deleted stock is immediately replaced with the highest-ranked non-component from the Selection List, belonging to the same ICB industry as the deleted stock. The Selection List is updated on a quarterly basis as part of the review component selection process. The newly added component enters with the same weight as that of the deleted one.

In case there is no company available in the Selection List that belongs to the same ICB industry as the deleted component, the highest-ranked non-component from the Selection List is chosen, independently of its industry.

Fast entry: Not Applicable.

Fast exit: Not Applicable.

Spin-offs: Spin-off companies are not permanently added to the index.

Corporate actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com)

10. STOXX DIVIDEND INDICES

10.1. STOXX SELECT DIVIDEND INDICES

10.1.1. OVERVIEW

Similar to the Blue-Chip indices, the STOXX Select Dividend indices are derived from their benchmark indices or their regional subsets. They cover a fixed number of stocks which represent the highest-yielding stocks relative to their home markets in the respective benchmark index.

Universe:

STOXX Europe Select Dividend 30, selected from STOXX Europe 600
 EURO STOXX Select Dividend 30, selected from EURO STOXX
 STOXX Nordic Select Dividend 20, selected from STOXX Nordic TMI
 STOXX EU Enlarged Select Dividend 15, selected from STOXX EU Enlarged TMI
 STOXX North America Select Dividend 40, selected from STOXX North America 600 Index
 STOXX Asia/Pacific Select Dividend 30, selected from STOXX Asia/Pacific 600 Index
 STOXX Global Select Dividend 100, combines the STOXX Select Dividend 30, STOXX North America Select Dividend 40 and STOXX Asia/Pacific Select Dividend 30 indices
 STOXX USA Select Dividend 30, selected from STOXX USA 900

Weighting scheme: The indices are price-weighted with a weighting factor based on the dividend yield.

Base values and dates:

STOXX Europe Select Dividend 30 Index: 1000 on December 30, 1998
 EURO STOXX Select Dividend 30 Index: 1000 on December 30, 1998
 STOXX Nordic Select Dividend 20 Index: 1000 on December 30, 1998
 STOXX EU Enlarged Select Dividend 15 Index: 1000 on December 30, 1998
 STOXX North America Select Dividend 40 Index: 1000 on December 31, 1998
 STOXX Asia/Pacific Select Dividend 30 Index: 1000 on December 31, 1998
 STOXX Global Select Dividend 100 Index: 1000 on December 31, 1998
 STOXX USA Select Dividend 30 Index: 100 on March 22, 2004

Index types and currencies: For EURO STOXX Select Dividend 30, STOXX Global Select Dividend 100 and STOXX USA Select Dividend 30: price, net return and gross return in EUR and USD. For all others: price and net return in EUR and USD.

10.1.2. INDEX REVIEW

Component selection

1. For each regional Select Dividend index the components of the corresponding STOXX Regional Benchmark indices (or fix component benchmarks) and their secondary share lines are eligible.
2. Companies are screened for the following criteria:
 - » Indicated annualized dividend (applies for components and non-components)
 - » Non-negative dividend growth rate over the past five years (applies for non-components only)
 - » Dividend payments in four out of five calendar years (applies for non-components only)
 - » Non-negative payout ratio (applies for components and non-components)
 - » Payout ratio of less than or equal to 60% (applies for non-components only)

10. STOXX DIVIDEND INDICES

- » A minimum level of liquidity, as described in the following section (applies for non-components only)
- » For companies that have more than one share line, the line with the higher dividend yield is chosen.

3. To obtain the selection list all companies are ranked according to an outperformance factor that is calculated as follows:

Net dividend yield of the company versus the net dividend yield of the corresponding home market defined on an index basis.

Liquidity screening for non-components

Depending on the belonging region of the index, the following parameters are considered:

Region	Threshold (EUR)	ADTV days
Asia / Pacific	300,000,000	3
EU Enlarged	2,000,000	10
Eurozone	1,000,000,000	3
Europe	300,000,000	3
Nordic	100,000,000	3
America (developed)	300,000,000	3
USA	300,000,000	3

After defining N as the fixed number of components in the index, each i^{th} non-component stock is considered eligible - in terms of liquidity - if the following inequality holds:

$$ADTV_i > \frac{\text{Threshold}}{N} \cdot \frac{1}{ADTV \text{ days}}$$

where $ADTV_i$ represents the Average Daily Traded Value of the i^{th} non-component stock over the 3-month period ending on the month prior to the review month.

STOXX Europe Select Dividend 30

Coverage: the 30 highest-yielding companies relative to their home market (STOXX Regional/Country TMI) are selected from the STOXX Europe 600 Index (plus secondary lines).

- » Outperformance factor calculation: Net dividend yield of the company divided by the maximum of (STOXX Country TMI net dividend yield; STOXX Europe TMI net dividend yield) - 1
- » Component selection: All current components ranked from 1 to 60 in the selection list will remain in the index. If the number of stocks is below 30, the highest ranked non-components are added until there are enough stocks.

10. STOXX DIVIDEND INDICES

EURO STOXX Select Dividend 30

Coverage: the 30 highest-yielding companies relative to their home market (STOXX Regional/Country TMI) are selected from EURO STOXX (plus secondary lines).

- » Outperformance factor calculation: Net dividend yield of the company divided by the maximum of (STOXX Country TMI net dividend yield; EURO STOXX TMI net dividend yield) -1
- » Component selection: All current components ranked from 1 to 60 in the selection list will remain in the index. If the number of stocks is below 30, the highest ranked non-components are added until there are enough stocks.

STOXX Nordic Select Dividend 20

Coverage: the 20 highest-yielding companies relative to their home market (STOXX Regional/Country TMI) are selected from the STOXX Nordic TMI (plus secondary lines).

- » A payout ratio of less than or equal to 80% applies for non-components.
- » Outperformance factor calculation: Net dividend yield of the company divided by the maximum of (STOXX Country TMI net dividend yield; STOXX Nordic TMI net dividend yield) -1
- » Component selection: the stocks ranked between 1 and 10 are included in the index. Current components ranked between 11 and 30 are added to the index according to their rank. If the number of stocks is still below 20, the highest ranked non-components are added until there are enough stocks.

STOXX EU Enlarged Select Dividend 15

Coverage: the 15 highest-yielding companies relative to their home market (STOXX Regional/Country TMI) are selected from the STOXX EU Enlarged TMI (plus secondary lines).

- » The payout ratio has to be less than or equal to 100 percent
- » The dividend growth rate is based on the past three years.
- » Dividend payments in three out of three calendar years
- » Outperformance factor calculation: Net dividend yield of the company divided by the maximum of the (STOXX Country TMI net dividend yield; STOXX EU Enlarged TMI net dividend yield) - 1.
- » If a home market (STOXX Country TMI) is represented by only five or fewer stocks the outperformance factor is calculated based on the net dividend yield of the STOXX EU Enlarged TMI.
- » Component selection: All stocks ranked between 1 and 10 are included in the index. Current components ranked between 11 and 20 are added to the index according to their rank. If the number of stocks is still below 15, the highest ranked non-components are added until there are enough stocks.

STOXX North America Select Dividend 40

Coverage: the 40 highest-yielding companies relative to their home market (STOXX Country TMI) are selected from the STOXX North America 600 index (plus secondary lines).

- » Outperformance factor calculation: Net dividend yield of the company divided by the STOXX Country TMI net dividend yield -1.
- » Component selection: The companies are ranked by the outperformance factor for each country and the region as a whole. All current components ranked 60 or above in each country ranking will remain in the index. If the number of stocks is still below 40, the highest

10. STOXX DIVIDEND INDICES

ranked non-components from the regional ranking are added until there are enough stocks. A maximum of 30 stocks per country can be included in the index.

STOXX Asia/Pacific Select Dividend 30

Coverage: the 30 highest-yielding companies relative to their home market (STOXX Regional/Country TMI) are selected from the STOXX Asia/Pacific 600 index (plus secondary lines).

- » A payout ratio of less than or equal to 80% applies for non-components.
- » Outperformance factor calculation: Net dividend yield of the company divided by the maximum of (STOXX Country TMI net dividend yield; STOXX Asia/Pacific TMI net dividend yield) -1
- » Component selection: The companies are ranked by the outperformance factor for each country and the region as a whole. All current components ranked 20 or above in each country ranking will remain in the index. If the number of stocks is still below 30, the highest ranked non-components from the regional ranking are added until there are enough stocks. A maximum of 10 stocks per country can be included in the index.

STOXX Global Select Dividend 100

The index is a combination of the STOXX Europe Select Dividend 30 Index, the STOXX North America Select Dividend 40 Index and the STOXX Asia/Pacific Select Dividend 30 Index.

STOXX USA Select Dividend 30

Coverage: the 30 highest-yielding companies in the USA are selected from the STOXX USA 900 Index (plus secondary lines).

- » Component selection: All current components ranked from 1 to 60 in the selection list will remain in the index. If the number of stocks is below 30, the highest ranked non-components are added until there are enough stocks.

Review frequency: The STOXX Select Dividend indices are reviewed on an annual basis in March.

Weighting cap factors: The factors are calculated based on net-dividend yields.

Weight determination:

$$w_i = \frac{\frac{D_i}{p_i}}{\sum_{j=1}^N \frac{D_j}{p_j}}$$

w_i = weight
 D_i = net dividend of company i
 p_i = closing price of company i
 D_j = net dividend of company j
 p_j = closing price of company j
 N = number of index components

10. STOXX DIVIDEND INDICES

Weighting cap factor = $(1,000,000,000 \times \text{initial weight} / \text{closing price of the stock in EUR})$, rounded to integers.

The weighting factors are published on the second Friday in March, one week prior to quarterly review implementation using Thursday's closing prices.

For all Select Dividend indices, except for the STOXX Global Select Dividend, an additional cap factor of 15% applies. The STOXX Select Dividend Global Index has a cap factor of 10%. All weighting cap factors are reviewed quarterly.

10.1.3. ONGOING MAINTENANCE

Replacements: To maintain the number of components constant, a deleted stock is replaced with the highest-ranked non-component on the selection list. The selection list is updated on a quarterly basis according to the review component selection process. The restrictions on the maximum count per country are applied.

If a company is deleted from the STOXX Regional Benchmark indices (or fix component benchmarks) between the STOXX Select Dividend annual review dates, but is still a component of the STOXX Global TMI, the stock will remain in the STOXX Select Dividend indices until the next annual review, provided that it still meets the requirements for the STOXX Select Dividend Index.

Fast exit

If STOXX becomes aware of dividend data changes for the components of the STOXX Select Dividend indices the following index adjustments may occur. The timing of the index adjustment depends on the changes in the dividend data:

- » If the company cancels one of its dividends: the company will be deleted from the index, the replacement announced immediately, implemented two trading days later and become effective the next trading day.
- » If the company lowers its dividend: the company will remain in the index until the next selection list is available. If the company is ranked above the lower buffer on this selection list (e.g. ranked 60 or above for the STOXX Europe Select Dividend 30 Index), it is retained. If it falls below the lower buffer (e.g. ranked 61 or below for the STOXX Europe Select Dividend 30 Index), it is removed and replaced by the highest-ranked non-component on that selection list. The changes will be announced on the 5th trading day of the month together with the selection list and become effective on the first trading day after the third Friday of the month. The weightfactors for the new components will be published on the quarterly underlying data announcement based on previous day closing prices.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not considered for immediate addition in the STOXX Select Dividend indices. If the original company has a significantly lower dividend after the spin-off, then its status will be reviewed for fast exit.

Mergers and takeovers: The original stock is replaced by the surviving stock, if it is ranked at or above the lower buffer limit of the current Select Dividend selection list. If the stocks of the surviving

10. STOXX DIVIDEND INDICES

company fall below the lower buffer limit, the original stocks are replaced with the highest-ranked non-component on the selection list.

Weighting factor calculation: Replacements are added with a weight corresponding to their dividend yield on the current selection list. The new component's dividend yield is weighted against the dividend yields of all companies of the new index composition:

$$w_i = \frac{\frac{D_i}{p_i}}{\sum_{j=1}^N \frac{D_j}{p_j}}$$

w_i = weight of replacement company (i)
 D_i = net dividend of replacement company (i) on cut-off date of current selection list
 p_i = closing price of replacement company (i) on cut-off date of current selection list
 D_j = net dividend of replacement company (j) on cut-off date on current selection list of company j in new index composition
 p_j = closing price on cut-off date of current selection list of company (j) in new index composition
 N = number of index components

$$w_{f_{it}} = \frac{\frac{\sum_{j=1}^{N-k} w_{f_{jt}} \cdot p_{jt} \cdot cf_{jt}}{(1 - \sum_{h=1}^k w_h)}}{p_{it}} \cdot w_i$$

$w_{f_{it}}$ = new weighting factor of replacement (i) at time (t)
 k = number of replacements
 T = date of closing price for weighting factor calculation
 $N-1$ = remaining index components (previous index composition minus the deleted company)
 $w_{f_{jt}}$ = weighting factor of index component (j) at time (t)
 $p_{j,t}$ = price of index component (j) at time (t)
 cf_{jt} = weighting cap factor of index component (j) at time (t)
 w_i = weight of replacement company (i)
 p_{it} = price of replacement company (i) at time (t)

The remaining current components stay in the index with unchanged weighting factors.

10. STOXX DIVIDEND INDICES

10.2. STOXX ASEAN-FIVE SELECT DIVIDEND 50

10.2.1. OVERVIEW

The STOXX ASEAN-Five Select Dividend 50 Index aims to select from the ASEAN universe the 50 highest dividend paying companies. Countries that are considered are the Philippines, Malaysia, Thailand, Singapore and Indonesia. Vietnam is not part of the universe for this index.

Universe: All stocks in the investable universe (Philippines, Malaysia, Thailand, Singapore and Indonesia)

Weighting scheme: The indices are weighted according to the Free Float Market Capitalization

Base values and dates: 1000 as of March 31, 2004

Index types and currencies: Price, net and gross return in EUR, JPY and USD

10.2.2. INDEX REVIEW

Component selection and 35 – 70 buffer rule:

The universe is defined as all stocks in the STOXX Asia Total Market index belonging to the Philippines, Malaysia, Thailand, Singapore and Indonesia.

Stocks are excluded from this universe if:

- their 3 Months Average daily trading volume is below 1.5 Million USD,
- they are assigned to the sector “8670”- Real Estate Investment Trusts companies,
- their Payout ratio is below 0% or exceeds 80%.

All remaining stocks are ranked according to their 12 months historical dividend yield. A maximum of 15 components per country are selected; no minimum number of components per country are set. The highest ranked 35 stocks on the selection list are selected; the remaining 15 stocks are selected from the highest ranked current stocks ranked between 36 and 70; if the number of stocks selected is still below 50, then the highest ranked remaining stocks are selected until there are 50 stocks.

Review frequency: The indices are reviewed on an annual basis in March, the components announced on the first Friday, implemented on the third Friday and effective the next trading day. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

Shares and Free Float factors are updated in line with the STOXX Global Total Market indices on a quarterly basis. All changes are implemented on the third Friday in March, June, September and December and effective the next trading day.

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on the second Friday of the review month using Thursday's closing prices.

10.2.3. ONGOING MAINTENANCE

10. STOXX DIVIDEND INDICES

Replacements: A deleted stock is replaced with the highest-ranked non-component on the selection list if the number of stocks within the index would drop below 45. The selection list is updated once a year at annual review.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not permanently added to the index.

10. STOXX DIVIDEND INDICES

10.3. STOXX ASEAN SELECT DIVIDEND 30

10.3.1. OVERVIEW

The STOXX ASEAN SELECT DIVIDEND 30 Index aims to select from the ASEAN universe the 30 highest dividend paying companies.

Universe: All stocks in the investable universe (ASEAN region)

Weighting scheme: The indices are modified equal weighted. This means price-weighted with a weighting factor to achieve an equal weighting and limiting the maximum weight of a single country.

Base values and dates: 1000 as of March 31, 2004

Index types and currencies: Price, net and gross return in EUR and USD

10.3.2. INDEX REVIEW

Selection List

The following steps are applied:

- » All companies in the STOXX ASIA Total Market Index from Malaysia (MY), Philippines (PH), Thailand (TH), Singapore (SG) and Indonesia (ID) and Vietnam (VN) qualify¹⁷
- » Companies with a 3 months ADTV below 2 Million USD are excluded
- » REITs companies (ICB 8670) are excluded
- » Companies with payout ratios higher than 80% or below 0% are excluded
- » Vietnamese stocks with investment limits below 4% are excluded

- » All remaining companies are ranked by their 12 months historical dividend yield

Component list and selection with a 20-40 buffer rule:

The highest ranked 20 stocks on the selection list are selected; the remaining 10 stocks are selected from the highest ranked current stocks ranked between 21 and 40; if the number of stocks selected is still below 30, then the highest ranked remaining stocks are selected until there are 30 stocks.

During this process a maximum of seven components per country (Thailand: five) can be selected and no minimum numbers of components per country are set.

If during the step by step inclusion of the companies, one country reaches its limit (i.e. the constituent just included in the index brings the number of stocks from Singapore to seven), then all further stocks from the country on the selection list are no longer eligible.

¹⁷ Further ASEAN countries are eligible (Brunei, Myanmar, Cambodia and Laos) for the index when being added to the STOXX trading universe.

10. STOXX DIVIDEND INDICES

Review frequency: The indices are reviewed on an annual basis in March. The review cut-off date for the underlying data is the last trading day of the month preceding the review. The components are announced on the first Friday and implemented on the third Friday in March, June, September and December and effective the next trading day.

Weighting cap factors: Components are equally weighted and Thailand is capped at 15% due to investment restrictions in the local market

10.3.3. ONGOING MAINTENANCE

Replacements: A deleted stock is replaced with the highest-ranked non-component on the selection list. The country constraints apply for replacement and a maximum of seven components per country (Thailand: five) can be selected. The selection list is updated once a year at annual review.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not permanently added to the index.

10. STOXX DIVIDEND INDICES

10.4. STOXX MAXIMUM DIVIDEND INDICES

10.4.1. OVERVIEW

The STOXX Maximum Dividend Indices are designed to maximize the dividend yield of the index portfolio. The index contains the 40 stocks from the STOXX Regional benchmark / TMI Indices with the highest expected dividend yield.

Universe:

STOXX Europe Maximum Dividend 40, selected from STOXX Europe 600
STOXX Asia/Pacific Maximum Dividend 40, selected from STOXX Asia/Pacific 600
STOXX North America Maximum Dividend 40, selected from STOXX North America 600
STOXX Japan Maximum Dividend 40, selected from STOXX Japan 600
STOXX Global Maximum Dividend 40, selected from STOXX Global 1800

Weighting scheme: The indices are price-weighted with a weighting factor based on the adjusted dividend yield.

Base value and dates:

STOXX Europe Maximum Dividend 40 has a base value of 100 as of March 20th, 2000 for net-return and price indices and 29th of December 2000 for gross-return indices

For Asia/Pacific, North America, Global and Japan, the index has a base value of 100 as of January 31st 2011

Index types and currencies: For STOXX Japan Maximum Dividend 40: price, net return and gross return in EUR, USD and JPY. For all others: price, net return and gross return in EUR and USD.

10.4.2. INDEX REVIEW

Component selection**STOXX Regional Maximum Dividend 40**

All components of the STOXX regional Benchmark that pass the following criteria are added to the selection list:

Companies must have a dividend ex-date within the upcoming quarter, i.e. from 3rd Friday of March, June, September and December until the third Friday of the quarterly period afterwards. The dividend data are based on company announcements and estimations known to STOXX by the end of January, April, July and October

Free-float market capitalization of at least 1 billion EUR

Average daily turnover value (ADTV) over the last three months of at least 4 million EUR.

All companies on the selection list are ranked in descending order by the adjusted gross dividend yield (see below for the calculations) and the first 40 companies are selected for the index composition. If fewer than 40 companies meet the above criteria, companies of the previous period with the highest gross dividend yield are selected.

10. STOXX DIVIDEND INDICES

STOXX Country Maximum Dividend 40

All components of the STOXX regional Benchmark that pass the following criteria are added to the selection list:

Companies must have a dividend ex-date within the upcoming quarter. The dividend data are based on company announcements and estimations known to STOXX by the end of January, April, July and October.

Free-float market capitalization of at least 1 billion EUR

Average daily turnover value (ADTV) over the last three months of at least 4 million EUR.

All companies on the selection list are ranked in descending order by the adjusted gross dividend yield (see below for the calculations) and the first 40 companies are selected for the index composition. If fewer than 40 companies meet the above criteria, companies of the previous period with the highest gross dividend yield are selected.

Review frequency:

STOXX Japan Maximum Dividend 40, semiannually in June and December

All other regional indices are reviewed quarterly in March, June, September and December

Weighting cap factors and adjusted dividend yield calculation:

At the cut-off date the dividend yields are calculated based on announced or estimated dividends and the closing price.

The adjusted dividend yield used for index selection and weighting is calculated as follows:

$$DY_{iT} = \frac{D_{it}}{p_{iT}}$$

DY_{it} = Dividend Yield of company (i) at time (t)

D_{it} = announced or estimated dividend for share (i) within calculation period (t)

p_{iT} = closing price of share (i) on the cut-off date (T)

t = time within the upcoming calculation period that starts at implementation date t_0

T = cut-off date

adjusted $DY_{iT} = \text{scaling factor}_{i,T} \times DY_{iT}$

$$\text{scaling factor}_{j,T} = \begin{cases} \frac{\sum_j^m w_{j,T}}{LR_{j,T}}; & \text{if } LR_{j,T} > \sum_j^m w_{j,T} \\ 1; & \text{else} \end{cases}$$

$$w_{j,T} = \frac{DY_{j,T}}{\sum_j^m DY_{j,T}} \times LR_{j,T}$$

10. STOXX DIVIDEND INDICES

$$LR_{jT} = \frac{DY_{jT}}{ADTV(3months)_{jT}}$$

w_{jT} = weighted liquidity ratio of company (j)
 LR_{jT} = liquidity ratio of company (j)
 m = number of companies on the selection list

The weighting cap factors are derived from the adjusted dividend yields:

$$w_i = \frac{\text{adjusted } DY_{it}}{\sum_{j=1}^N \text{adjusted } DY_j}$$

w_i = weight
 DY_{it} = Dividend Yield of company (i) at time (t)
 N = number of index components

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR), rounded to integers.

Weights are capped at a maximum of 10%.

10.4.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit

If STOXX becomes aware of a dividend cancellation for the components of the STOXX Maximum Dividend indices, the company will be deleted from the index without replacement with two trading days notice.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

10. STOXX DIVIDEND INDICES

10.5. EURO STOXX QUALITY DIVIDEND 50

10.5.1. OVERVIEW

The EURO STOXX Quality Dividend 50 index aims to select 50 high quality, high dividend-paying and low volatility stocks.

Universe:

The index universe is defined by the parent index, the EURO STOXX Index (as observed on the review effective date, i.e. future composition).

Weighting scheme:

The index is weighted according to free-float market capitalization.

Base values and dates:

The following base values and dates apply: 100 on 19 June 2006.

For a complete list please consult the data vendor code sheet on the website¹⁸. Customized solutions can be provided upon request.

Index types and currencies:

Price, net and gross return in EUR and USD

10.5.2. INDEX REVIEW

Selection list:

All stocks in the base universe are first screened for liquidity. All stocks that have a 3-month Average Daily Trading Ratio (ADTR) of less than 0.25% are excluded from the base universe. If a stock has missing ADTR information, then the company is also removed from the base universe.

The following indicators are then calculated for all remaining stocks in the base universe:

- i) 12-month trailing gross dividend yield (DY)
- ii) payout ratio
- iii) 3-month and 12-month trailing volatility in EUR
- iv) 3-year historical net income yield growth rate for all 'Financials' (companies that have an ICB industry code of 8000); free cash flow (FCF) yield growth rate for all other companies

All values above are observed as of the cut-off date. Data used for ii) and iv) are from the last reported fiscal year.

If any among the 12-month trailing gross dividend yield, payout ratio, 3-year historical FCF / net income growth rate and both 3-month and 12-month trailing volatility of a stock has missing information, then the company is removed from the base universe. Additionally, if any of the

¹⁸ http://www.STOXX.com/download/indices/vendor_codes.xls

10. STOXX DIVIDEND INDICES

dividend yield, payout ratio, or FCF (or net income for Financials) yield growth rate of a stock is equal to zero, or below zero in the case of dividend yield and payout ratio, then the company is also removed from the base universe.

Ratios and indicators used in the Selection process:

$$ADTR_t = \frac{3 \text{ month } ADTV_t}{MCap_t}$$

where,

t cut-off date

ADTV Average Daily Trading Volume

MCap Free-float Market Capitalization

$$Payout Ratio_t = \frac{Common Dividends_t}{(Net Income_t - Preferred Dividends_t)}$$

where,

t cut-off date

$$Volatility_t = \sqrt{\frac{1}{k-1} \sum_{i=1}^k (r_i - \bar{r})^2}$$

where,

t cut-off date

k number of returns between the cut-off date and:

- i) the date 3 months prior to the cut-off date when calculating the 3-month historical volatility; if this is not a trading day, then the next trading day should be considered
- ii) the date 12 months prior to the cut-off date when calculating the 12-month historical volatility; if this is not a trading day, then the next trading day should be considered

r_i daily return as of day i in the given time series of k returns

\bar{r} mean of all daily returns r_i in the given time series, calculated as: $\bar{r} = \frac{1}{k} \sum_{i=1}^k r_i$

$$FCF_t = Net Cash Flow_t - Net CapEx_t$$

$$FCF \text{ Growth Rate}_t = \frac{FCF_t}{MCap_t} - \frac{FCF_{t-3}}{MCap_{t-3}}$$

$$Net Income \text{ Growth Rate}_t = \frac{Net Income_t}{MCap_t} - \frac{Net Income_{t-3}}{MCap_{t-3}}$$

10. STOXX DIVIDEND INDICES

where,

t	cut-off date
$t - 3$	3 years prior to the cut-off date; if this is not a trading day, then the next trading day should be considered
FCF	Free Cash Flow
Net CapEx	Capital Expenditure on Fixed Assets
MCap	Free-float Market Capitalization

Composition list:

Each stock in the eligible universe is given a standardized score (z-score) for each of the 3 metrics: 12-month historical dividend yield, payout ratio and 3-year FCF (or net income) yield growth rate using the following calculation:

$$z_i = \frac{(x_i - \bar{x})}{\sigma}$$

where:

x_i	value of metric x for stock i
\bar{x}	mean value of the metric x
σ	standard deviation of the metric x

Each stock is then given an overall score (OS) by taking the sum of the 12-month historical dividend yield z-score, the negative of the payout ratio z-score and the 3-year FCF (or net income) yield growth rate z-score:

$$OS = z_{Dividend\ Yield} - z_{Payout\ Ratio} + z_{FCF / Net\ Income\ Growth\ Rate}$$

Next, the Equal Strength Ratio and the size of the target list (n) are calculated as follows:

$$ESR = \sqrt{\frac{50}{N}}$$

$$n = Rounddown (ESR * N)$$

where:

N	number of stocks for which an overall score can be calculated
-----	---

The stocks are sorted in descending order based on their overall score, and the top n stocks are selected in order to create the target list. The final selection list is obtained by sorting the stocks in the target list in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility).

The final composition is obtained by selecting the top 50 (lowest volatility) stocks in the final selection list with the following constraint:

10. STOXX DIVIDEND INDICES

- Maximum of 15 stocks per ICB industry

Review frequency:

The reviews are conducted on a semi-annual basis in June and December. The review cut-off date for the underlying data is the last calculation day of May and November respectively.

Weighting cap factors:

The index is weighted according to free-float market capitalization subject to a 4% cap per constituent on a semi-annual basis.

10.5.3. ONGOING MAINTENANCE

Replacements: Not applicable.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

Corporate Actions:

All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com).

11. STOXX OPTIMISED INDICES

11.1. STOXX OPTIMISED INDICES BASED ON STOXX EUROPE 600

11.1.1. OVERVIEW

Two set of indices exist on the basis of STOXX 600:

STOXX Europe 600 Optimised Supersector

STOXX Europe 600 Optimised Market Quartiles

These indices apply a sector-dependent liquidity cap that reduces the weighting of the components, whose average daily turnover, as a fraction of its free-float market capitalization, is below the sector average. The hybrid market capitalization and the liquidity weighting methodology reflect optimized tradability of the STOXX Optimised indices, while retaining the free-float market capitalization weighted across the larger and more liquid components.

Universe: Indices for the following regions as defined in section 4.3 are calculated: Europe

Weighting scheme: Free-float market capitalization with a liquidity scaling factor.

Base value and date: All STOXX Europe 600 Optimised indices: 1000 on December 31, 2000.

Index types and currencies: Price, net return in EUR and USD.

11.1.2. INDEX REVIEW

Component selection

All STOXX Europe 600 stocks excluding the ones from Czech Republic, Greece and Iceland are eligible.

Equity turnover and the availability of funds to borrow are calculated for each eligible company:

Equity turnover: Average Daily Turnover (ADTV) over three months in EUR ending with the fifth trading day after the review cut-off date.

Availability of funds to borrow: Based on averaged data over seven trading days starting with on the fifth trading day of the review cut-off date, as provided by Data Explorers in EUR.

STOXX Optimised Supersector

The 30 least liquid and the 30 hardest to borrow stocks are deleted, starting with the smallest, considering the following conditions:

- At least ten stocks must remain in the relevant Supersector.
- The combined free-float market capitalization of the excluded stocks from a particular Supersector must not exceed 20%.

Weighting cap factors

The following capping procedure is applied to Optimised Supersector indices:

- If the weighting of a component is above the Supersector's weighted average ADTV, it is reduced to that value by introducing a liquidity scaling factor (see Liquidity Scaling Factors).
- A maximum weight cap factor is applied, based on the number of components (n) in the index:

If $n < 25$ apply 20%

If $25 \leq n < 40$ apply 15%

If $n \geq 40$ apply 10%

11. STOXX OPTIMISED INDICES

For the technical index calculation both factors are multiplied and applied as one weighting cap factor.

STOXX Optimised Market Quartile

The 30 least liquid and the 30 hardest to borrow stocks are removed. These are then assigned to one of four thematic baskets which are clustered from the ICB subsectors. Please see the appendix in chapter 0 for STOXX Optimised Market Quartiles for further information on subsector assignment to the relevant market quartiles.

Weighting cap factors

The following capping procedure is applied to Optimised Market Quartile indices:

1. If the weighting of a component is above the market quartile's weighted average ADTV, it is reduced by a liquidity scaling factor (see Liquidity Scaling Factors).
2. A maximum weight cap factor of 10% is applied.

For the technical index calculation both factors are multiplied and applied as one weighting cap factor.

Review frequency: The Optimised indices are reviewed on a quarterly basis.

Derived indices

Region	Index Name
Europe	STOXX Europe 600 Optimised <Supersector>
Eurozone	EURO STOXX Optimised Banks

11.1.3. ONGOING MAINTENANCE

Replacements: Replacements are handled similar to STOXX Europe 600 Sector indices, except for replacements of Greece, Czech Republic or Iceland. A combined factor of 1 is applied to all new components that are added between two reviews.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are treated the same as in STOXX Europe 600 Sector indices.

11. STOXX OPTIMISED INDICES

11.2. STOXX OPTIMISED COUNTRY INDICES

11.2.1. OVERVIEW

The STOXX Optimised Country indices are available in two versions: the STOXX Optimised Country Local indices cover a range of emerging markets, using shares traded on local stock exchanges, and the STOXX Optimised Country DR indices offer a depository receipt version for some of these markets. They use a liquidity scaling factor which aims to improve tradability. The selection is based on market capitalization and minimum liquidity.

Universe

The STOXX Optimised Country Local index universe is defined as all components listed on the stock exchange of the relevant index's country. The following emerging markets are covered in the index family: Brazil, Chile, China, Colombia, Egypt, India, Indonesia, Israel, Malaysia, Mexico, Philippines, Poland, Russia, South Africa, South Korea, Taiwan, Thailand, Turkey and Vietnam.

The STOXX Optimised Country DR index universe is defined as all companies that are incorporated in Brazil, India, Mexico, Russia, or China with depository receipt (DR) listings on the LSE, NYSE or NASDAQ Stock exchanges.

STOXX Optimised Country Local indices:

Brazil, China, India, Indonesia, Israel, Mexico, South Africa, South Korea, Taiwan, Thailand and Turkey; Chile (as of September 19, 2003); Colombia, Egypt, Philippines and Poland (as of September 16, 2005); Russia (as of September 17, 2004); Vietnam (as of September 21, 2007).

STOXX Optimised Country DR indices :

Brazil and Mexico (100 as of September 15, 2000); Russia (as of September 20, 2002); China and India (as of September 19, 2003).

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base value and date: 100 on September 15, 2000.

Index types and currencies: Price, net return, gross return in EUR and USD.

11.2.2. INDEX REVIEW

Component selection

In order to be eligible for index selection, stocks from the relevant universes are screened for the following criteria at the annual review date:

Free-Float market capitalization larger than EUR 180 million for non-components and equal to or larger than EUR 120 million for current components. For the STOXX Optimised Vietnam index, the relevant free-float market capitalization thresholds are EUR 60 million and EUR 40 million.

ADTV over the last 3 months prior to and including the annual review date of at least EUR 1.2 million for non-components and at least EUR 0.7 million for current components. For the STOXX Optimised Vietnam Index, the relevant liquidity thresholds are EUR 0.6 million and EUR 0.3 million.

In case of market events that negatively influence the aggregated liquidity and market capitalization of entire markets, the liquidity requirements can be lowered or the period index review can be postponed to the next quarterly review date. In such cases, the composition remains unchanged, but new weighting factors will be implemented.

11. STOXX OPTIMISED INDICES

If more than one listing per stock qualifies for index inclusion, the listing with the higher market capitalization is chosen. China is represented by Hong Kong listed H-shares and red chips. Foreign shares listed locally on Kuala Lumpur and Thailand stock exchanges are not considered for index inclusion.

For the STOXX Optimised Country indices of India, South Korea, Taiwan and Vietnam all companies are additionally screened for the percentage of shares available to foreign institutional investors. This ratio has to be greater than or equal to 4% for current components and greater than 6% for non-components to be eligible.

The largest 30 stocks in terms of full market capitalization are selected for each index. If fewer than 30 stocks fulfill the liquidity criteria, the index will be calculated with the available number of stocks.

Review frequency: The indices are reviewed annually in September. The review cut-off date is the last trading day in July.

Weighting cap factors

The following capping procedure is applied:

1. If the weighting of a component is above the market quartile's weighted average ADTV, it is reduced to that value by introducing a liquidity scaling factor (see Liquidity Scaling Factors).
2. A cap factor of 10% is applied.

For the technical index calculation both factors are multiplied and applied as one weighting cap factor.

Derived indices: Not applicable.

11.2.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Optimised Country indices due to mergers and acquisitions are not replaced.

Fast exit: For the STOXX Optimised Country indices of India, South Korea, Taiwan and Vietnam all current components are screened quarterly for the percentage of shares available to foreign institutional investors. Index constituents must have a ratio greater than or equal to 4% to be eligible, otherwise they are replaced by the highest-ranked non-component from the selection list. The ratio is calculated at the review cut-off date, and announced on the day of the quarterly underlying data announcement for the benchmark indices.

Companies may be removed due to extraordinary market circumstances.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

12. STOXX STYLE INDICES

12.1. STOXX TM STYLE INDICES

12.1.1. OVERVIEW

The STOXX Total Market Style Indices represent a broad coverage of companies that have similar growth and value characteristics based on fundamental criteria.

Universe: Depending on the Style index, the eligible universe is defined as the components of one of the following parent indices:

- STOXX Europe Total Market
- STOXX Europe Total Market <Size>

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and date: 1,000 on June 30, 1997.

Index types and currencies: Price, net return in EUR and USD.

12.1.2. INDEX REVIEW

Component selection

Target coverage: growth and value stocks selected from the STOXX Europe TM Index at the first and third quarterly reviews.

Review procedures:

The style characteristics of each stock are determined by analyzing six factors, out of which two are projected, two current and two historical:

1. Projected price/earnings (P/E) ratio: Based on the closing price at the time of the review and on the mean annual earnings per share (EPS) expected for the next fiscal period, as reported by the Institutional Brokers' Estimate System (IBES). A high projected P/E ratio is associated with the Growth style.
2. Projected earnings growth: Based on the expected three to five year annual increase in operating EPS, as defined by the IBES long-term growth forecast. . A high projected earnings growth is associated with the Growth style.
3. Trailing P/E ratio: Based on the closing price at the time of the review and on the previous quarter's EPS from continuing operations, as reported by IBES. A high trailing P/E ratio is associated with the Growth style.
4. Trailing earnings growth: Based on average annualized EPS growth for the previous 21 quarters, as reported by IBES. A high trailing earnings growth is associated with the Growth style.
5. Price/book (P/B) ratio: Based on the closing price at the time of the review and the book value per share. A high current P/B ratio is associated with the Growth style.
6. Dividend yield: Based on the closing price at the time of the review and the total dividends declared by the company during the previous 12 months. A high current dividend yield is associated with the Value style.

Stocks for which the value of a factor cannot be determined are excluded from the selection. The remaining stocks are ranked for each of the six factors. For each factor, the stocks beyond the 5th and 95th percentiles are assigned the same factor values as the stocks at the 5th and 95th percentiles.

12. STOXX STYLE INDICES

For each stock the values of the six factors are z-scored for normalization.

A multivariate, statistical cluster analysis is conducted to produce five clusters: Strong Growth (SG) and Weak Growth (WG), Strong Value (SV) and Weak Value (WV), and Neutral (NT).

Each style cluster is represented by a certain seed. A seed expresses the representative z-score value to be attained by each z-score of any given security in order for that security to be classified as part of that cluster.

The table below shows the seeds for each style:

Style	Strong Growth	Weak Growth	Neutral	Weak Value	Strong Value
Seed	1	0.2	0	-0.2	-1

The clustering procedure foresees that, for each i^{th} stock, the five Euclidean distances between its six z-scores and each seed value are calculated:

$$\text{distance}_{i,k} = \sqrt{\sum_{j=1}^6 (\text{z-score}_{i,j} - \text{seed}_k)^2}$$

The seeds act as style attraction points, hence, the smaller the Euclidean distance of a security's z-scores from a seed, the stronger the belief that that security belongs to the style associated with that seed: each security is thus assigned to the style cluster for which the Euclidean distance is smallest among the five.

To properly reflect the fact that a high dividend yield is typically associated with Value stocks, the sign of the dividend yield z-score is reversed in the calculation.

A set of rules aims to avoid that stocks can change more than one cluster from one review to the next and that larger stocks remain in the Neutral cluster for longer than one review period. The rules are as follows:

All stocks that have been classified into the neutral cluster in the last review, will go into the cluster that they classify for in this review.

All stocks that have been classified into the Weak Value (Weak Growth) cluster in the last review, and would be classified in any Growth (Value) or Neutral cluster in the current review, are reclassified to Neutral.

Stocks that:

1. were classified as Neutral in the last review, and
2. are classified as Neutral in the current review, and
3. weigh at least 0.5% in the STOXX Europe Total Market index

are reclassified as either Weak Value or Weak Growth, depending on which cluster seed they are closer to.

Only the stocks associated with a Growth or Value cluster will be part of the respective Style index, all Neutral stocks are excluded from the selection. Additionally, at the second and fourth quarter reviews of the STOXX Europe TM index the following rules apply:

12. STOXX STYLE INDICES

New stocks added to the STOXX Europe TM index are immediately classified as neutral stocks until the next review of the style indices.

Stocks deleted from the STOXX Europe TM index are immediately deleted from the style indices. Stocks reclassified into different STOXX Europe Total Market Size indices are also immediately reclassified into the corresponding STOXX Europe Total Market Style Size indices.

Review frequency: The indices are reviewed semi-annually in March and September.

Weighting cap factors: No weighting cap factors are applied.

Derived indices: Subset for the Eurozone region as defined in section 4.3.

12.1.3. ONGOING MAINTENANCE

Additions and deletions: New stocks added to the parent indices at the June or December review are immediately classified as Neutral stocks until the next review of the Style indices.

Stocks deleted from the parent indices are immediately deleted from the Style indices.

Stocks reclassified into a different parent <Size> index are also immediately reclassified into the corresponding Style <Size> indices.

Replacements: Stocks deleted from the Style indices are not replaced.

Spin-offs: Spin-offs are added permanently if qualifying for the parent indices as of the latest quarterly review list in terms of free-float market capitalization. A spun-off company is added to the same cluster as the parent company.

12. STOXX STYLE INDICES

12.2. STOXX STRONG STYLE INDICES

12.2.1. OVERVIEW

The STOXX Strong Style indices contain companies that have the highest growth and value scores based on fundamental criteria.

Universe: The eligible universe is defined as the components of the STOXX Europe Total Market index.

Weighting scheme: The index is price-weighted according to the growth and value scores.

Base value and date: 1,000 on September 30, 2001.

Index types and currencies: Price, net return in EUR and USD.

12.2.2. INDEX REVIEW

Component selection

STOXX Europe Strong Growth (Value) 20 Index (10 – 30 buffer rule)

Stocks are screened for a minimum level of liquidity: stocks with 6-month average daily traded value below € 2mn will be excluded. If multiple lines of a stock qualify for the index, the less liquid line is removed.

The style characteristics of each stock are determined by analyzing six factors, out of which two are projected, two current and two historical:

1. Projected price/earnings (P/E) ratio: Based on the closing price at the time of the review and on the mean annual earnings per share (EPS) expected for the next fiscal period, as reported by the Institutional Brokers' Estimate System (IBES). A high projected P/E ratio is associated with the Growth style.
2. Projected earnings growth: Based on the expected three to five year annual increase in operating EPS, as defined by the IBES long-term growth forecast. A high projected earnings growth is associated with the Growth style.
3. Trailing P/E ratio: Based on the closing price at the time of the review and on the previous quarter's EPS from continuing operations, as reported by IBES. A high trailing P/E ratio is associated with the Growth style.
4. Trailing earnings growth: Based on average annualized EPS growth for the previous 21 quarters, as reported by IBES. A high trailing earnings growth is associated with the Growth style.
5. Price/book (P/B) ratio: Based on the closing price at the time of the review and the book value per share. A high current P/B ratio is associated with the Growth style.
6. Dividend yield: Based on the closing price at the time of the review and the total dividends declared by the company during the previous 12 months. A high current dividend yield is associated with the Value style.

Stocks for which the value of a factor cannot be determined are excluded from the selection. The remaining stocks are ranked for each of the six factors. For each factor, the stocks beyond the 5th and 95th percentiles are assigned the same factor values as the stocks at the 5th and 95th percentiles.

12. STOXX STYLE INDICES

For each stock the values of the six factors are z-scored for normalization.

A multivariate, statistical cluster analysis is conducted to produce two clusters: Strong Growth (SG) and Strong Value (SV).

Each style cluster is represented by a certain seed. A seed expresses the representative z-score value to be attained by each z-score of any given security in order for that security to be classified as part of that cluster.

The table below shows the seeds for each style:

Style	Strong Growth	Strong Value
Seed	2	-2

In the clustering procedure the five Euclidean distances between the six z-scores and each seed value are calculated for each i-th stock:

$$\text{distance}_{i,k} = \sqrt{\sum_{j=1}^6 (\text{z-score}_{i,j} - \text{seed}_k)^2}$$

Then the growth (value) score is calculated:

$$\text{Growth-score}_i = \frac{\text{distance}_{i,SV}}{\text{distance}_{i,SG} + \text{distance}_{i,SV}} \quad \text{and} \quad \text{Value-score}_i = 1 - \text{Growth-score}_i$$

All stocks ranked 10 or above by their Growth (Value) score on the selection list will be added to the index. The remaining 10 stocks are selected from the largest remaining current stocks ranked between 11 and 30. If the number of stocks selected is still below 20, then the largest remaining stocks are selected until the component count reaches 20.

STOXX Europe Strong Style 40 Index

The STOXX Europe Strong Style 40 Index is the combination of the STOXX Europe Strong Growth 20 and STOXX Europe Strong Value 20 indices.

Review frequency: The indices are reviewed annually in September. The review cut-off date is the last trading day in August.

Weighting cap factors: The component are weighted according to their value and growth score
Initial weight calculation

$$w_i = \frac{S_i}{\sum_{j=1}^N S_j}$$

12. STOXX STYLE INDICES

w_i = target weight
 S_i = respective value or growth score of company i
 S_j = respective value or growth score of company j
 N = number of index components

Weighting cap factor = (1,000,000,000 x target weight / closing price of the stock in EUR), rounded to integers.

All components are capped at a maximum weight of 15% annually.

Derived indices

STOXX Europe Strong Growth 20	STOXX Europe Strong Value 20	STOXX Europe Strong Style Composite 40
EURO STOXX Strong Growth 20	EURO STOXX Strong Value 20	EURO STOXX Strong Style Composite Value 40

12.2.3. ONGOING MAINTENANCE

Replacements: A deleted stock in STOXX Strong Style Index is replaced by the highest-ranked non-component on the relevant STOXX Strong Style selection list. The selection list is updated annually. The new company will be added at the same weight as the company being removed.

Spin-offs: Spun-off companies are not added permanently.

12. STOXX STYLE INDICES

12.3. STOXX STRONG QUALITY

12.3.1. OVERVIEW

The STOXX Strong Quality indices select the best companies based on an average ranking of three fundamentals factors (Return on Capital, Current ratio and Company Equity Yield) and fulfilling minimum liquidity criteria.

Universe:

Indices for the following regions as defined in section 4.3 are calculated: Global, Asia/Pacific, Europe, USA. The indices are derived from their regional benchmark indices:

STOXX Global Strong Quality 50 indices based on STOXX Global 1800

STOXX Europe Strong Quality 30 indices based on STOXX Europe 600

STOXX Asia/Pacific Strong Quality 30 based on STOXX Asia/Pacific 600

STOXX USA Strong Quality 50 indices based on all U.S. stocks from the STOXX North America 600

STOXX Nordic Strong Quality 20 indices based on all Nordic stocks from STOXX Europe 600

Base values and dates: 100 on June 23, 2003

For a complete list please consult the data vendor code sheet on the website¹⁹.

Weighting scheme: Weighted according to the free-float market capitalization

Index types and currencies: Price, net return, gross return, all available in EUR and USD.

12.3.2. INDEX REVIEW

Selection list

All stocks in the universe must fulfill the following criteria on the cut-off date to be eligible for the selection list:

- » Minimum liquidity criteria: 3 months Average Daily Traded Value (ADTV) of 5 mIn EUR for the regional indices for Europe and Asia / Pacific, 10 mIn EUR for the Global and U.S. version, and 1 mIn EUR for the Nordic version
- » Stocks must have a positive and non-constant Return on Capital (ROC) for the past three years, including the current year
- » Stocks must have a Current ratio (CR) greater than one
- » Stocks must have a Company Excess Yield (EY) greater than 0. The Company Excess Yield (EY) is defined as the difference between the Company Equity Yield (CEY = EBITDA/EV) and a Global Equivalent Corporate Bond Yield (GEBY) measured as the US AAA Corporate Bond Yield (CBY) times 1.5.

$$EY = CEY - CBY \times 1.5 = CEY - GEBY$$

The eligible stocks are ranked by ROC, CR and EY in descending order and a final rank is calculated as the average of the three rankings. All stocks are sorted by their final rank in ascending order. If two or more stocks have the same rank, they are sorted by ROC (descending order) first, following CR (descending order) and then CEY (descending order).

¹⁹ http://www.STOXX.com/download/indices/vendor_codes.xls

12. STOXX STYLE INDICES

Composition list

The first 50 stocks in the ranking (30 stocks for Europe and Asia, 20 for Nordic) are selected from the selection list for the index composition. No buffer rules apply.

If less than the required number of stocks can be selected, the index will be calculated with the stocks available on the selection list and will have less constituents until the next periodic index review.

Review frequency: The indices are reviewed annually in June. The cut-off date is the last business day of month preceding the review month.

If a company is deleted from the STOXX Benchmark indices between the annual review dates of the STOXX Strong Quality indices, it will remain in the indices until the next annual review if it is still a component of the STOXX Global TMI.

Weighting cap factors: Components are capped at a maximum weight of 10% quarterly. The weighting cap factors are published on the second Friday of the review month using Thursday's closing prices.

12.3.3. ONGOING MAINTENANCE

Replacements A deleted stock is replaced immediately to maintain the fixed number of stocks. The replacement is based on the latest selection list.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: spin-off companies are not added permanently.

12. STOXX STYLE INDICES

12.4. STOXX STRONG BALANCE SHEET

12.4.1. OVERVIEW

The STOXX Strong Balance Sheet Index family reflects companies with a high Altman Z-Score (a quantitative measure of the financial and fundamental health of a company) and minimum liquidity criteria.

Universe: STOXX Global 1800 und regional subsets excluding Financials

Indices for the following regions as defined in section 4.3 are calculated: Global, Europe, Japan and USA

The indices are derived from their regional benchmark indices excluding Financials (ICB industry 8000):

STOXX Global Strong Balance Sheet based on STOXX Global 1800

STOXX Europe Strong Balance Sheet based on STOXX Europe 600

STOXX Japan Strong Balance Sheet based on all Japanese companies of the STOXX Global 1800

STOXX USA Strong Balance Sheet based on all U.S. companies of the STOXX Global 1800

Weighting scheme:

- » Weighted according to the free-float market capitalization with a 10% maximum capping per constituent
- » Price weighted with a weighting factor to achieve an equal weighting (please see chapter 8 for details on the equal-weighting process)

Base values and dates: 100 on September 24, 2007

For a complete list please consult the data vendor code sheet on the website²⁰.

Index types and currencies: Price, net return, gross return, all available in EUR and USD. The STOXX Japan Strong Balance Sheet indices are also available in JPY.

12.4.2. INDEX REVIEW

Selection list

All stocks in the universe must fulfill the following criteria at the cut-off date to be eligible for the selection list. The cut-off date is the last trading day of the month preceding the review month.

Liquidity criteria:

- » Only stocks with a 3 months average daily traded value (ADTV) above the threshold are eligible for the selection list.
The threshold is chosen as the maximum of the 5% percentile of all ADTVs per country / regional universe ex financials companies and of a fixed floor defined per country / region as follows:

²⁰ http://www.STOXX.com/download/indices/vendor_codes.xls

12. STOXX STYLE INDICES

- Global and USA: 5mln USD
- Europe: 3mln EUR
- Japan: 300mln JPY

Altman Z-Score criteria:

- » The Altman Z-Score is observed on the current cut-off date and on the cut-off dates one and two years before
- » Companies without an Altman Z-Score or with an Altman Z-Score which has been carried over (same value as in previous year) for longer than one year are excluded from the universe

Altman Z-Score = $1.2 * (\text{Working Capital} / \text{Tangible Assets}) + 1.4 * (\text{Retained Earnings} / \text{Tangible Assets}) + 3.3 * (\text{EBIT} / \text{Tangible Assets}) + 0.6 * (\text{Market Value of Equity} / \text{Total Liabilities}) + (\text{Sales} / \text{Tangible Assets})$

Composition list:

All companies with an Altman Z-Score greater 3.5 consecutively on the last current cut-off date and on the cut-off dates one and two years before are selected for the index.

Review frequency: The reviews are conducted on an annual basis in September considering the review results of the STOXX Global 1800 index to capture future component changes. On each quarterly periodic review the free-float market capitalization weighted version is subject to a 10% capping per component and the equal-weighted versions is rebalanced to equal weights.

If a company is deleted from the STOXX Benchmark indices between the annual review dates, it will remain in the STOXX Strong Balance Sheet indices as long as it is still a component of the STOXX Global TMI and until the next annual review.

12.4.3. ONGOING MAINTENANCE

Replacements:

Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

13. STOXX THEME INDICES

13.1. STOXX EUROPE IPO INDICES

13.1.1. OVERVIEW

The STOXX IPO indices consist of the most recent IPOs in the developed European markets. Three different time horizons are available for the STOXX IPO Index family:

STOXX Europe IPO Index (3 months)

STOXX Europe IPO Index (12 months)

STOXX Europe IPO Index (60 months)

Each time horizon defines the length of the membership of each IPO in the index after its addition.

Universe: Indices for the following regions as defined in section 4.3 are calculated: Europe

Weighting scheme: Weighted according to the free-float market capitalization.

Base value and date: 1,000 on December 31, 2004.

Index types and currencies: Price, net return in EUR and USD.

13.1.2. INDEX REVIEW

Component selection

IPO stocks with a free-float market capitalization of between EUR 100 million and EUR 3 billion on their listing date are added to the STOXX Europe IPO Index (3 months) following the close of their listing day. The stocks are automatically added to the STOXX Europe IPO Index (12 months) and the STOXX Europe IPO Index (60 months) after the close of trading on the second Wednesday following their listing date. If the listing date is a Wednesday, this day is counted as the first Wednesday. For the STOXX Europe IPO indices separate addition and deletion announcements will be made (deletion announcements on Mondays).

All constituents of the STOXX Europe IPO indices are reviewed for their liquidity. If a constituent has more than 10 non-trading days in the three months prior to the quarterly review date, it will be deleted from the index unless this deletion would decrease the number of constituents below 10.

Review frequency: The number of shares and the free-float factors of all constituents of the STOXX IPO indices are reviewed on a quarterly basis in line with the review dates of other STOXX indices. Components are reviewed on a continuous basis.

Weighting cap factors: A maximum weighting cap factor of 20% is applied. It is announced for the STOXX Europe IPO Index (12 months) and the STOXX Europe IPO Index (60 months) at the underlying data announcement of each review and effective with all changes in the other indices.

Derived indices: Not applicable.

13.1.3. ONGOING MAINTENANCE

IPO stocks are removed from their STOXX Europe IPO Index after the close of trading on the first Wednesday following 3, 12 or 60 calendar months after inclusion in the relevant index, unless this removal would result in fewer than 10 index components. If several stocks are to be removed on the same date, the removal process starts with the smallest stock in terms of free-float market capitalization as of three days prior to the removal date.

13. STOXX THEME INDICES

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

13.2. STOXX EUROPE FOOTBALL INDEX

13.2.1. OVERVIEW

The STOXX Europe Football Index covers all football clubs that are listed on eligible stock exchanges in Europe and Eastern Europe.

Universe: The index universe is defined as all companies listed in the regions Europe and Eastern Europe as defined in section 4.3.

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and date: 100 on December 31, 1991.

Index types and currencies: Price, net return in EUR and USD.

13.2.2. INDEX REVIEW

Component selection: All football companies in Europe and Eastern Europe are selected for inclusion in the index regardless of their trading volume and their number of days without any trading at all. During the selection process, research is conducted to identify football clubs based on their main purpose and activity for companies in the ICB Subsector 5755, Recreational Services.

Review frequency: The STOXX Europe Football Index is reviewed quarterly in March, June, September and December, based on the closing data of the review cut-off date, the last day of the previous month.

Weighting cap factors: In the STOXX Europe Football index, components are capped at a maximum weight of 10% at the quarterly review.

Derived indices: Not applicable.

13.2.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Europe Football index are not replaced.

Spin-offs: Spin-off companies are not added permanently.

13. STOXX THEME INDICES

13.3. STOXX GLOBAL INFRASTRUCTURE INDICES

13.3.1. OVERVIEW

STOXX Global Extended Infrastructure 100 and STOXX Global Infrastructure Suppliers 50 are Blue Chip indices. The selection of infrastructure-related companies (asset owners or suppliers) is performed by an independent Research Partner. The indices cover the largest components of respective infrastructure sectors.

Universe: The index universe is defined as all stocks from the STOXX Global TMI index that derive at least 50% of the total most recent annual revenues from infrastructure business and/or supplying goods or services to companies from the infrastructure industry.

Infrastructure sectors are based on a proprietary industry classification of our Research Partner Factset and are defined as follows:

- Midstream
- Wireline
- Cable & Satellite
- Rail Transportation
- Road Transportation
- Air Transportation
- Water Transportation
- Passenger Transportation
- Energy Utilities
- Water Utilities
- Waste Management

STOXX uses FactSet Research Systems granular analysis to determine a company's position within the infrastructure subsectors of its FactSet Revere Business Industry Classification System (FactSet RBICS). FactSet Revere is a sector, supply chain, and geographic risk taxonomy expert.

Weighting scheme: The indices are weighted according to free-float market capitalization

Base value and dates: 1'000 on March 21, 2011.

Index types and currencies: Price and net-return in EUR and USD.

Dissemination calendar: STOXX Americas calendar

13.3.2. INDEX REVIEW

Component selection

In the following sections, the cut-off date for the data provided by the Research Partner is the last calculation day in January.

STOXX Global Extended Infrastructure 100 Index

13. STOXX THEME INDICES

Target coverage: 100 infrastructure sector leaders from the stocks considered to be infrastructure related companies by the Research Partner. There is a minimum liquidity requirement for components to be eligible: the 3-month average daily trading value (ADTV) has to be at least of EUR 1 million.

For each of the eleven infrastructure sectors, the stocks are ranked in terms of free-float market capitalization and the largest seven stocks are added to the index. If there are fewer than seven stocks within a sector, only the available stocks that passed the required liquidity filter are added to the index.

All remaining stocks are ranked by free-float market capitalization regardless of their sector.

The largest current components ranked 110 or better which have not been selected in step 1 are added until the component count has been reached.

If the number of stocks is still below the required component count the largest remaining stocks are selected until the components count is reached

STOXX Global Infrastructure Suppliers 50 Index

Target coverage: 50 leaders from the stocks considered to be suppliers of the companies from the infrastructure sector by the Research Partner. There is a minimum liquidity requirement for components to be eligible: the 3-month average daily trading value (ADTV) has to be at least of EUR 1 million.

For each of the eleven infrastructure sectors, the stocks are ranked in terms of free-float market capitalization and the largest four stocks are added to the index. If there are fewer than four stocks within a sector, the available stocks that passed the required liquidity filter are added to the index only.

All remaining stocks are ranked by free-float market capitalization regardless of their sector.

The largest current components ranked 55 or better which have not been selected in step 1 are added until the component count has been reached.

If the number of stocks is still below the required component count the largest remaining stocks are selected until the components count is reached

Review frequency: The indices are reviewed annually in March in line with the STOXX Benchmark index schedule.

Weighting cap factors: A cap of 20% is applied on each of the eleven sectors quarterly. The second largest component of the overall index is subject to maximum weight of 15% at the quarterly review. The weighting cap factors are published on the Wednesday, two trading days prior to quarterly review implementation using Tuesday's closing prices.

Derived indices: Not applicable.

13.3.3. ONGOING MAINTENANCE

Replacements

Stocks deleted from the STOXX Global TMI are deleted from the STOXX Global Infrastructure indices. A deleted stock is replaced to maintain the fixed number of stocks. The replacement is based on the latest quarterly selection list.

13. STOXX THEME INDICES

If the number of companies for a certain infrastructure sector goes below seven for the STOXX Global Extended Infrastructure 100 Index or four for the STOXX Global Infrastructure Suppliers 50 Index, the largest stock from this sector is taken from the selection list.

Otherwise the largest stock from the selection list regardless of its sector is added to the index. Replacements are added with the same weighting cap factor as assigned at the last quarterly review to the specific sector.

Changes are announced immediately, implemented two trading days later and become effective on the next trading day after implementation.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-Offs: Spin-off companies are not added permanently.

13. STOXX THEME INDICES

13.4. STOXX GLOBAL BROAD INFRASTRUCTURE

13.4.1. OVERVIEW

The STOXX Global Broad Infrastructure Index is derived from the STOXX Developed and Emerging Markets Total Market (all developed and emerging markets of the STOXX Global Total Market Index). The components are chosen from five infrastructure related synthetic supersectors which in turn, comprise of 17 synthetic sectors and selected by the free-float market capitalization.

Universe: The index universe is defined as all companies listed in developed or emerging markets which are part of the STOXX Global Total Market Index.

Weighting scheme: The indices are weighted according to free-float market capitalization with additional weighting cap factors

Base value and dates: 100 on March 16, 2007.

Index types and currencies: Price, gross return and net return in EUR and USD.

Dissemination calendar: STOXX Americas calendar

13.4.2. INDEX REVIEW

Component selection:

The companies of universe are screened for the following criteria and then sorted by their free-float market capitalization:

- » Minimum liquidity criteria: 3-month average daily trading volume (ADTV) greater than one million USD.
- » Companies must generate at least 50% of their revenues within the following infrastructure-specific super-sectors / sectors. The infrastructure sectors are based on a proprietary industry classification of a Research Partner and are defined as follows:
 - » Communication: cable & satellite, data centers wireless, wireless towers, wireline
 - » Energy: energy utilities, midstream energy
 - » Government outsourcing / social: correctional facilities, hospitals, postal services
 - » Transportation: air transportation, passenger transportation, rail transportation, road transportation, water transportation
 - » Utilities: waste management, water utilities

Companies are selected according to their free-float market capitalization under the following constraints:

- » A maximum of 40 index constituents from each of the five super-sectors (communications, energy, transportation, government outsourcing/social, utilities) is allowed to enter the index
- » A maximum number of companies per sector is given by $40/n$, with n = number of sectors within each supersector.

Review frequency: The index is reviewed annually in March together with the STOXX Total Market indices. The review cut-off date is the last trading day in January.

13. STOXX THEME INDICES

Weighting cap factors: To prevent companies, supersectors and countries from dominating the portfolio, the index is subject to a quarterly three-dimensional capping with a maximum weight of 5% on constituent level, 30% on super-sector-level and 40% on country level (please refer to following chapter for a detailed description of the capping procedure).

The weighting cap factors are published on the second Friday of the quarter, one week prior to quarterly review implementation, and calculated using Thursday's closing prices

13.4.3. CAPPING PROCEDURE

The capping-procedure is subject to three steps:

Step 1:

The model aims to equally reduce the weights of all index constituents in order to fulfill the predefined capping criteria. To do so, the initials weights (based on the Free Float mcap) are multiplied by a correction factor that is determined as follows:

$$CF_{\min} = \min \begin{cases} CF_{\text{component}} = x/X \\ CF_{\text{country}} = y/Y \\ CF_{\text{supersector}} = z/Z \end{cases}$$

where:

x = maximum component weight
 y = maximum country weight
 z = maximum super-sector weight
 X = largest component weight
 Y = largest country weight
 Z = largest super-sector weight

Step 2:

In a second step, the altered weights of only those components that do not belong to the group of constituents that led to the cap in step 1 are then multiplied with a second factor UFmin which is determined as follows:

$$UF_{\min} = \min \begin{cases} UF_{\text{component}} = \frac{x}{X^u} \\ UF_{\text{country}} = \min_i [UF_{\text{country}_i}] = \min_i \left[\frac{(y - Y_i^c)}{(Y_i - Y_i^c)} \right] \\ UF_{\text{supersector}} = \min_j [UF_{\text{supersector}_j}] = \min_j \left[\frac{(z - Z_j^c)}{(Z_j - Z_j^c)} \right] \\ UF_{\text{index}} = \frac{(1 - A^c)}{(A - A^c)} \end{cases}$$

where:

13. STOXX THEME INDICES

x	= maximum component weight
y	= maximum country weight
z	= maximum super-sector weight
X^u	= largest (uncapped) component weight
Y_i	= weight of all components of country i
Y_i^c	= weight of all capped components of country i
Z_j	= weight of all components of supersector j
Z_j^c	= weight of all capped components of supersector j
A	= weight of all components of the index
A^c	= weight of all capped components of the index

Step 3:

In a third step, it has to be distinguished between four scenarios:

Scenario 1:

If $UF_{\min} = UF_{\text{component}}$: The weight of the largest uncapped component has been increased to reach its maximum of $x\%$. Consequently, it will be fixed until the end of the capping procedure.

Scenario 2:

If $UF_{\min} = UF_{\text{country}_i}$: The weight of country i has been increased to reach its maximum of $y\%$. Consequently, it will be fixed until the end of the capping procedure.

Scenario 3:

If $UF_{\min} = UF_{\text{supersector}_j}$: The weight of super-sector j has been increased to reach its maximum of $z\%$. Consequently, it will be fixed until the end of the capping procedure.

Scenario 4:

If $UF_{\min} = UF_{\text{index}}$: All predefined criteria are met and the capping procedure ends.

In scenarios 1, 2 and 3, step 2 of the above defined capping iteration is reapplied to the uncapped components until scenario 4 occurs.

13.4.4. ONGOING MAINTENANCE

Replacements

A deleted stock is not replaced. Stocks deleted from the STOXX Global TMI are deleted from the STOXX Global Broad Infrastructure index.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-Offs: Spin-off companies are not added permanently.

13. STOXX THEME INDICES

13.5. STOXX GLOBAL 3D PRINTING INDEX FAMILY

13.5.1. OVERVIEW

The STOXX Global 3D Printing Tradable index aims to select the top 30 companies related to the 3D Printing sector (>1% of revenues) with tradability criteria (Average Daily Traded Value (ADTV), Free-Float Market Capitalization, Weighting Cap Limits and Developed Country status).

The STOXX Global 3D Printing Pureplay index aims select the top 30 companies highly related to the 3D Printing sector (>10% of revenues) with lower tradability criteria (Average Daily Traded Value (ADTV), Free-Float Market Capitalization)

Universe: The index universe is defined as all companies (equity and ADR listings) listed in the STOXX investable universe as defined in section 4.2

Weighting scheme:

STOXX Global 3D Printing Tradable: price-weighted with a weightfactor to achieve an equal weighting

STOXX Global 3D Printing Pureplay: Free-Float Market capitalization weighted

Base value and date: 100 on September 17, 2010

Index types and currencies: Price, net return, gross return in EUR and USD.

13.5.2. INDEX REVIEW

Selection and composition list for the STOXX Global 3D Printing Tradable:

The top 50 companies with involvement into 3D Printing are selected from the universe. Companies are excluded if they do not fulfill the following criteria:

- » ADTV 3Months > 250,000 EUR.
- » Free Float Market Capitalization > 80 mIn EUR.
- » Revenues from 3D Printing > 1%.
- » The assigned country belongs to the developed market countries as defined by STOXX. Please refer to section 4.3 for further details.

The remaining companies are ranked according to the Free Float Market Capitalization. The top 30 companies are selected. In case there are less component in the universe, all eligible companies are selected.

Selection and composition list for the STOXX Global 3D Printing Pureplay:

The top 50 companies with involvement into 3D Printing are selected from the universe. Companies are excluded if they do not fulfill the following criteria:

- » ADTV 3Months > 25,000 EUR.
- » Free Float Market Capitalization > 10 mIn EUR.
- » Revenues from 3D Printing > 10%.

The remaining companies are ranked according to the Free Float Market Capitalization. The top 30 companies are selected. In case there are less component in the universe, all eligible companies are selected.

13. STOXX THEME INDICES

Review frequency: The index is reviewed annually in September

Weighting cap factors:

STOXX Global 3D Printing: All components are equal-weighted. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Weighting cap factor = $(100,000,000,000 \times \text{initial weight} / \text{closing price of the stock in EUR})$ and rounded to integers.

STOXX Global 3D Printing Pureplay: the component weights are capped at 20%

Derived indices: Not applicable.

13.5.3. ONGOING MAINTENANCE

Replacements: Deleted stocks are not replaced.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

13. STOXX THEME INDICES

13.6. STOXX ACTIVIST INDEX

13.6.1. OVERVIEW

The STOXX Activist Indices capture the performance of public companies in which the top activist hedge funds have a significant investment stake. The indices are designed to reflect the activists' main goals of increasing shareholder value and outperforming markets.

Universe: Companies are selected from the pool of publicly traded companies in the FactSet Corporate Activism database. Companies need to be traded on a STOXX eligible exchange (see section 4.2).

Weighting scheme: Both, a free-float market capitalization weighted and an equal-weighted version are calculated.

Base values and dates: 100 on Dec 15, 2006

Index types and currencies: Price, net return, gross return in EUR and USD.

13.6.2. INDEX REVIEW

Selection list

The selection list contains all companies that fulfill the following criteria:

- Activism has been announced in the past two years for the company and the related activism is not of type "Short Position/Bear Raid"
- Liquidity and size screenings passed: 3 months average daily traded value equal to or greater than USD 1 million and a free float market capitalization equal to or greater than USD 250 million
- Targeted by a SharkWatch 50 member (top activists as defined by FactSet)
- The shares must be of a regularly listed company and not a mutual fund

Composition list

Companies where the related activist investor holds at least 7% of the market capitalization or an absolute value of at least USD 500 million at the time of the announcement are selected for the index.

Review frequency: The reviews are conducted on a quarterly basis. The review cut-off date for the underlying data is the second Friday of the review month.

Weighting cap factors: For the equal weight version the weighting factors are published on the Wednesday before the review of each quarter using Tuesday's closing prices.

Weighting cap factor = $(100,000,000,000 \times \text{initial weight} / \text{closing price of the stock in EUR})$ and rounded down to integers.

Capping factors: For the market cap weighted version cap factors are applied to cap component weights at a maximum of 5%.

13. STOXX THEME INDICES

13.6.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

13. STOXX THEME INDICES

13.7. STOXX LOW CARBON

13.7.1. OVERVIEW

The constituents for the STOXX Low Carbon family of indices will be selected from the STOXX Global 1800 universe, excluding coal companies. Companies are selected based on their Carbon Intensity Data (Scope 1 + Scope 2 Greenhouse Gas emissions (GHG) / Revenue (\$million)).

The STOXX Low Carbon family of indices consists of the following groups:

- » Low Carbon indices: Global, Regional and Country Low Carbon indices
- » Blue chip indices: Global, Regional and Country ICB Industry Top 50, 100 or 400 indices
- » Reported data indices: Global, Regional and Country Reported Carbon data indices
- » Global ex Countries and ex Regions indices
- » Global and Regional Low Carbon Footprint indices
- » STOXX Global Climate Change Leaders Index

Universe:

All securities from the STOXX Global 1800 index.

Weighting scheme:

Indices are price weighted with a weight factor based on the free-float market capitalization multiplied with the corresponding Z-score carbon intensity factor of each constituent.

Additionally, the Top 50, 100 or 400 indices will be offered with an Equally Weighted version.

A Weight Cap of 5% are applied to all indices.

Base value and date:

100 on 19 December 2011

Index types and currencies:

Price, net and gross return in EUR and USD. Regional indices (e.g. Japan and ex Australia) in JPY and AUD.

13.7.2. INDEX REVIEW

Selection list:

Components are selected from the STOXX Global 1800 universe, excluding ICB Code 1771 (Coal).

The indices will be defined by the parent index (see table below):

Underlying Parent Index	Associated Carbon Index
STOXX Global Total Market Index	STOXX Global Climate Change Leaders Index
STOXX Global 1800 index	STOXX Global 1800 Low Carbon index STOXX Europe 600 Low Carbon index EURO STOXX 50 Low Carbon index

13. STOXX THEME INDICES

	EURO STOXX Low Carbon index STOXX USA Low Carbon index STOXX Japan Low Carbon index STOXX Global Low Carbon Footprint index STOXX Europe Low Carbon Footprint index STOXX Global Reported Low Carbon index STOXX Europe Reported Low Carbon index EURO STOXX Reported Low Carbon index STOXX USA Reported Low Carbon index STOXX Global Low Carbon 100 index STOXX Global Low Carbon 400 index STOXX Europe Low Carbon 50 index STOXX Europe Low Carbon 100 index STOXX USA Low Carbon 50 index STOXX Global Low Carbon 100 Equal Weight index STOXX Global Low Carbon 400 Equal Weight index STOXX Europe Low Carbon 50 Equal Weight index STOXX Europe Low Carbon 100 Equal Weight index STOXX USA Low Carbon 50 Equal Weight index STOXX Global 1800 ex USA Low Carbon index STOXX Global 1800 ex Japan Low Carbon index STOXX Global 1800 ex Australia Low Carbon index STOXX Global 1800 ex Europe Low Carbon index
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Component selection:

Components are screened according to their Carbon Intensity as defined:

Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million))

The data consists of both Reported (from CDP: companies voluntarily annually report, amongst others, Scope 1 & 2 GHG emissions) and Estimated data (from ISS-Ethix Climate Solutions, who uses, amongst others, CDP data to estimate GHG emissions with a model developed in cooperation with the Zurich ETH university, for companies that do not report to CDP). Should data not be available for a security, the security will be excluded from the universe.

For the following explanation, please read together with the matrix above.

1. Low Carbon indices: Global, Regional and Country Low Carbon indices:
 - From the Universe, select all companies that have both Reported and Estimated Carbon Intensity data.
2. Blue chip indices: Global, Regional and Country ICB Industry Top 50, 100 or 400 indices.
 - From the Universe, companies are grouped by ICB Industry and all companies that have both Reported and Estimated Carbon Intensity data are selected.
 - Rank the companies in ascending order by Carbon Intensity. Select the top 5 & 10 (Regional) and Top 10 & 40 (Global) companies with the lowest Carbon Intensity figures to create both Global, Regional and Country Industry Top 50 / 100 / 400 indices.

13. STOXX THEME INDICES

3. Reported data indices: Global, Regional and Country Reported Carbon data indices.
 - From the Universe, select only companies that have Reported Carbon Intensity data from CDP.
4. Global ex Countries and ex Regions indices:
 - From the Universe, exclude companies from Countries and Regions as defined in the table above
5. Global and Regional Low Carbon Footprint indices:
 - From the Universe, follow a 3 step process.
 - Step 1: Exclude the following ICB Supersectors: Chemicals (ICB code 1300), Utilities (ICB code 7500), Oil & Gas (ICB code 0500), Construction & materials (ICB code 2300), Travel & Leisure (ICB code 5700), Real Estate (ICB code 8600) and Basic Resources (ICB code 1700):
 - Step 2: Rank the remaining companies by Carbon Intensity.
 - Step 3: From the remaining universe from step 2, exclude the 10% companies with the highest Carbon Intensities.
6. STOXX Global Climate Change Leaders Index:
 - Components are selected from the CDP A-List (formerly also known as the CDP Climate Performance Leadership) dataset. For more details, see <https://www.cdp.net/en-US/Pages/disclosure-analytics.aspx>.
 - Since the CDP Climate A-list may contain constituents which fall outside the STOXX Global 1800 universe, the universe has been extended to the STOXX Global Total Market index universe. Should a company from the A-list not be contained within the STOXX Global Total Market index, it will be excluded and will not be eligible for the index.

Weighting scheme:

Price weighted with a weight factor based on the free-float market capitalization multiplied with the corresponding Z-score carbon intensity factor of each constituent:

Determination of free-float market capitalization weights:

$$w_{it} = \frac{p_{it} \cdot n_{it} \cdot ff_{it}}{\sum_{i=1}^n p_{it} \cdot n_{it} \cdot ff_{it}}$$

w_{it}	= Free Float Market Capitalization weight of company (i) at time (t)
p_{it}	= Price of company (i) at time (t)
n_{it}	= Number of shares of company (i) at time (t)
ff_{it}	= Free-float factor of company (i) at time (t)
n_{it}	= Number of shares

Step 1: For the Low Carbon, blue chip, reported data, global ex countries and ex regions and global and regional low carbon footprint indices:

13. STOXX THEME INDICES

Calculate the Z-Score for the *sample* (the sample mean & standard deviation are calculated):

$$z_{it} = \frac{x_{it} - \bar{X}_s}{S_s}$$

z_{it} = Z-Score for company (i) at time (t)
 x_{it} = Carbon Intensity value for company (i) at time (t)
 \bar{X}_s = Mean of the sample
 S_s = Standard Deviation of the sample

For the STOXX Global Climate Change Leaders and the EURO STOXX 50 Low Carbon index:
 Calculate the Z-Score for the *population* (the population mean & standard deviation are calculated):

$$z_{it} = \frac{x_{it} - \bar{X}_p}{S_p}$$

z_{it} = Z-Score for company (i) at time (t)
 x_{it} = Carbon Intensity value for company (i) at time (t)
 \bar{X}_p = Mean of the population
 S_p = Standard Deviation of the population

Step 2: Free-float market capitalization multiplied with the corresponding Z-score carbon intensity factor of each constituent:

For negative Z-scores (these companies will be over-weighted):

$$W_{z_{it}:z<0} = w_{it} * (1 - z_{it})$$

For positive Z-scores (these companies will be under-weighted):

$$W_{z_{it}:z\geq 0} = w_{it} * \left(\frac{1}{1 + z_{it}} \right)$$

Step 3: Weights from Step 2 needs to be normalized to 100:

$$W_{it} = \left(\frac{W_{z_{it}}}{\sum W_{z_{it}}} \right)$$

Step 4: Calculate the weighting factor for each component:

Weighting factor = $W_{it} * (100,000,000,000,000 / \text{closing price of the stock in EUR})$, rounded to integers.

For the Equally Weighted indices:

All components are equal-weighted. The weighting factors are published on the second Friday of the quarter, one week prior to quarterly review implementation using Thursdays' closing prices.

Weighting Cap factors:

All indices are subject to a 5% capping per component and the equal-weighted versions are rebalanced quarterly to equal weights.

13. STOXX THEME INDICES

Review frequency:

The components are reviewed annually in December since carbon data only becomes available annually, during October or November, when published by CDP. In the event that CDP is not able to provide data to STOXX by the cut-off date of first week of December preceding the review in December, the review would take place during the following quarterly review in March.

Shares, Free Float, weight factor (based on the free-float market capitalization multiplied with the corresponding Z-score carbon intensity factor) and Cap Factors are reviewed quarterly.

13.7.3. ONGOING MAINTENANCE**Replacements:**

Deleted companies are not replaced. If a company is deleted from the STOXX Global 1800 index, but remains in the STOXX Global Total Market index, the stock will not be excluded from the STOXX Low Carbon indices.

Fast exit:

Not applicable.

Fast entry:

Not applicable.

Spin-offs:

A spin-off is added temporarily for one trading day and is then removed from the index.

13. STOXX THEME INDICES

13.8. STOXX CLIMATE IMPACT AND CLIMATE AWARENESS

13.8.1. OVERVIEW

The STOXX Climate Impact Ex Global Compact and Controversial Weapons and STOXX Climate Impact Ex Global Compact, Controversial Weapons and Tobacco indices will include companies with CDP Performance Bands A to B- (pre-2016 Performance Band A to B). Band A and A- includes companies that are seen as leading companies in terms of climate change: these companies are disclosing particular “actions” which mark them as leaders, as well as high scores across all other levels of the CDP Scoring matrix. Scoring requires detailed company-specific explanations. Band B and B- includes companies that “manage” climate change: companies seek evidence of climate actions implemented and requires company-specific understanding of climate change related issues.

The STOXX Climate Awareness Ex Global Compact and Controversial Weapons and STOXX Climate Awareness Ex Global Compact, Controversial Weapons and Tobacco indices will include companies with a CDP Performance Band A to C- (pre-2016 Performance Band A to C). In addition to the description above of Band A and B, Band C and C- identifies companies who have looked at implications of climate change for, and on, their business and recognizes a high level, contextual knowledge of environmental issues.

All versions will exclude companies who are in contravention of UN Global Compact Principles or are involved in Controversial Weapons activities, as identified by Sustainalytics. Additionally, a version will be available that adds an additional exclusion for the sub-sector Tobacco (ICB Code 3785). The Coal sector (ICB Code 1771) is always excluded from STOXX Low Carbon indices.

Universe:

For the Ex Global Compact Principles and Controversial Weapons indices: all securities from the STOXX Global 1800 index, excluding the Coal sector (ICB Code 1771). Companies without a CDP Performance Band between A and C- will not be included in the index.

For the Ex Global Compact Principles, Controversial Weapons and Tobacco indices, the universe will be all securities from the STOXX Global 1800 index, excluding the Coal sector (ICB Code 1771) as well as the Tobacco sector (ICB 3785).

Only companies that will be a constituent of the STOXX Global 1800 index when the selection list is published in November each year will be considered for the annual review performed in December.

Weighting scheme:

Indices are price weighted with a weight factor based on the free-float market capitalization percentage weight multiplied with the corresponding Z-score carbon intensity factor of each constituent.

All indices are subject to a 5% capping per component

Base value and date:

100 on 24 December 2012

13. STOXX THEME INDICES

Index types and currencies:

Price, net and gross return in EUR and USD.

13.8.2. INDEX REVIEW**Selection list:**

For the Climate Impact Ex Global Compact and Controversial Weapons Indices: from the STOXX Global 1800 index, exclude the Coal sector (ICB Code 1771). For the Climate Impact Ex Global Compact Principles, Controversial Weapons and Tobacco Indices: from the STOXX Global 1800 index, exclude the Coal sector (ICB Code 1771) and the Tobacco sector (ICB 3785). In both cases, exclude companies in breach of Global Compact Principles and Controversial Weapons, as identified by Sustainalytics.

For the Climate Awareness Ex Global Compact and Controversial Weapons Indices: from the STOXX Global 1800 index, exclude the Coal sector (ICB Code 1771). For the STOXX Climate Awareness Ex Global Compact Principles, Controversial Weapons and Tobacco Indices: from the STOXX Global 1800 index, exclude the Coal sector (ICB Code 1771) and the Tobacco sector (ICB 3785). In both cases, exclude companies in breach of Global Compact Principles and Controversial Weapons, as identified by Sustainalytics.

Only companies that will be a constituent of the STOXX Global 1800 index when the selection list is published in November each year will be considered for the annual review performed in December.

Component selection:

For the STOXX Climate Impact Ex Global Compact and Controversial Weapons Indices: from the selection list, exclude companies in breach of UN Global Compact Principles and Controversial Weapons, as identified by Sustainalytics. Select all remaining companies with a CDP Performance Band between A and B-.

For the STOXX Climate Impact Ex Global Compact, Controversial Weapons and Tobacco Indices: from the selection list, exclude companies in breach of UN Global Compact Principles and Controversial Weapons, as identified by Sustainalytics. Select all remaining companies with a CDP Performance Band between A and B-.

For the STOXX Climate Awareness Ex Global Compact and Controversial Weapons Indices: from the selection list exclude companies in breach of UN Global Compact Principles and Controversial Weapons, as identified by Sustainalytics. Select all remaining companies with a CDP Performance Band between A and C-.

For the STOXX Climate Awareness Ex Global Compact, Controversial Weapons and Tobacco Indices: from the selection list exclude companies in breach of UN Global Compact Principles and Controversial Weapons, as identified by Sustainalytics. Select all remaining companies with a CDP Performance Band between A and C-.

Only companies that will be a constituent of the STOXX Global 1800 index when the selection list is published in November each year will be considered for the annual review performed in December.

13. STOXX THEME INDICES

Weighting scheme:

Price weighted with a weight factor based on the free-float market capitalization percentage weight multiplied with the corresponding Z-score carbon intensity factor of each constituent:

Step 1: Calculate the Z-Score for the population (the population mean & standard deviation are calculated):

$$z_{it} = \frac{x_{it} - \bar{X}_p}{S_p}$$

z_{it} = Z-Score for company (i) at time (t)

x_{it} = Carbon Intensity value for company (i) at time (t)

\bar{X}_p = Mean of the population

S_p = Standard Deviation of the population

Step 2: Free-float market capitalization percentage weight (as per usual STOXX calculation methodology) multiplied with the corresponding Z-score carbon intensity factor of each constituent:

1) For negative Z-scores (these companies will be over-weighted):

$$W_{z_{it}:z<0} = w_{it} * (1 - z_{it})$$

2) For positive Z-scores (these companies will be under-weighted):

$$W_{z_{it}:z\geq 0} = w_{it} * \left(\frac{1}{1 + z_{it}} \right)$$

Step 3: Weights from Step 2 needs to be normalized to 100%:

$$W_{it} = \left(\frac{W_{z_{it}}}{\sum W_{z_{jt}}} \right)$$

Step 4: Calculate the weighting factor for each component:

Weighting factor = $W_{it} * (100,000,000,000,000 / \text{closing price of the stock in EUR})$, rounded to integers.

Weighting Cap factors:

All indices are subject to a 5% capping per component.

Review frequency:

The components are reviewed annually in December when data becomes available from CDP. In the event that CDP is not able to provide data to STOXX by the cut-off date of first week of December preceding the review in December, the review would take place during the following quarterly review in March.

Shares, Free Float, weight factor (based on the free-float market capitalization multiplied with the corresponding Z-score carbon intensity factor) and Cap Factors are reviewed quarterly.

13. STOXX THEME INDICES

13.8.3. ONGOING MAINTENANCE

Replacements:

Deleted companies are not replaced. If a company is deleted from the STOXX Global 1800 index, but remains in the STOXX Global Total Market index, the stock will not be excluded from the relevant index. If a constituent is deleted, its weight will be distributed among the remaining constituents in proportion to their weight.

Fast exit:

In case a company which is an index constituent increases in its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two trading days after the announcement, i.e. at the open of the 3rd trading day. The constituent's weight will be distributed among the remaining constituents in proportion to their weight.

Fast entry:

Not applicable.

Spin-offs:

A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers:

Standard STOXX process.

Corporate Actions:

All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com).

14. STOXX SUSTAINABILITY INDICES

14.1. STOXX EUROPE SUSTAINABILITY INDICES

14.1.1. OVERVIEW

Universe: The index universe is defined by the STOXX Europe 600.

Weighting scheme: The index is free-float market capitalization weighted.

Base value and date: 100 as of 31 December 1998.

Index types and currencies: Price, net return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website²¹.

14.1.2. INDEX REVIEW

Component selection

Components are selected from the STOXX Europe 600 indices according to their sustainability rating (combination of company and sector rating). All companies with a positive sustainability rating will be included in the index. A rating is defined as positive, if the combination of the company and the sector rating result in a shaded matrix field of the Sarasin Sustainability Matrix.

In deviation from Bank J. Safra Sarasin's standard approach, STOXX is including tobacco, adult entertainment and defense & armament in the universe for STOXX Europe Sustainability and EURO STOXX Sustainability. These criteria are considered for exclusion in the indices STOXX Europe/ EURO STOXX Sustainability ex AGTAF/ ex AGTAFA respectively.

Sarasin Sustainability Matrix®

Company	high	1	2	3	4	5
	above	6	7	8	9	10
	average	11	12	13	14	15
	below	16	17	18	19	20
	low	21	22	23	24	25
		low	below	average	above	high
		Sector				

Review frequency: The index is reviewed annually in September.

Weighting cap factors: The index is free-float market capitalization weighted without cappings.

²¹ http://www.STOXX.com/download/indices/vendor_codes.xls

14. STOXX SUSTAINABILITY INDICES

Derived indices: The EURO STOXX Sustainability Index is a subset of the STOXX Europe Sustainability Index covering only Eurozone countries.

14.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the STOXX Sustainability indices.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

14. STOXX SUSTAINABILITY INDICES

14.2. STOXX EUROPE SUSTAINABILITY EX AGTAF/ EX AGTAFA

14.2.1. OVERVIEW

Universe: The index universe is defined by the STOXX Europe 600 Index excluding the sectors alcohol, gambling, tobacco, armaments, firearms (AGTAF) and adult entertainment (AGTAFA)

Weighting scheme: The index is free-float market capitalization weighted.

Base value and date: 100 on December 31, 1998.

Index types and currencies: Price, net return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website²².

14.2.2. INDEX REVIEW

Component selection: Components are selected from the STOXX Europe Sustainability indices. Based on the Sarasin industry classification all companies which gain less than 5% of their revenues in the industries alcohol, gambling, tobacco, armaments, firearms (AGTAF) and / or adult entertainment (AGTAFA) are included in the index.

In deviation from Bank J. Safra Sarasin's standard approach, STOXX is including tobacco, adult entertainment and defense & armament in the universe for STOXX Europe Sustainability and EURO STOXX Sustainability. These criteria are considered for exclusion in the indices STOXX Europe/ EURO STOXX Sustainability ex AGTAF/ ex AGTAFA respectively.

Review frequency: The index is reviewed annually in September.

Weighting cap factors: The indices are free-float market capitalization weighted without cappings.

Derived indices: The EURO STOXX Sustainability Index ex AGTAF/ ex AGTFA Index covers only the following countries: Austria, Belgium, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal and Spain.

14.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the STOXX Sustainability indices.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

²² http://www.STOXX.com/download/indices/vendor_codes.xls

14. STOXX SUSTAINABILITY INDICES

14.3. STOXX SUSTAINABILITY BLUE-CHIPS

14.3.1. OVERVIEW

European sustainable blue-chip companies are included in the STOXX Europe Sustainability 40 Index and Eurozone companies in the EURO STOXX Sustainability 40 Index.

Universe: The indices are derived from the STOXX Europe Sustainability and the EURO STOXX Sustainability indices.

Weighting scheme: The indices are price-weighted.

Base value and date: 100 as of 31 December 1998.

Index types and currencies: Price, net return in EUR and USD.

For a complete list please consult the data vendor code sheet on the website²³.

14.3.2. INDEX REVIEW

Component selection: Components are selected from the STOXX Europe Sustainability / EURO STOXX Sustainability indices. All companies are ranked according to their free-float market capitalization. The top 40 companies are selected, however, only a maximum of five companies per supersector can be included in the index.

Review frequency: The index is reviewed annually in September.

Weighting cap factors: Constituents are weighted according to the value of the company rating (score). The score is normalized by the maximum score of all eligible companies.

A weighting cap factor is calculated as follows: $1.000.000.000 \times \text{initial weight} / \text{closing price of stock}$, where the initial weight is calculated as $\text{normalized score} / \text{sum of normalized score of each constituent}$. Each component's weight is then calculated as: $\text{closing price (EUR)} \times \text{weighting factor}$. Component weight are not capped.

Derived indices: Not applicable.

14.3.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced in the STOXX Sustainability indices.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off companies are not added permanently.

²³ http://www.STOXX.com/download/indices/vendor_codes.xls

14. STOXX SUSTAINABILITY INDICES

14.4. STOXX ESG IMPACT INDICES

14.4.1. OVERVIEW

The STOXX ESG Impact Indices offer a broad market exposure that is tilted towards companies that score better with respect to a small set of environmental, social, and governance (ESG) KPIs. A global and a US version exist.

Universe: The universe are the STOXX Global 1800 Index and the US companies in the STOXX Global 1800 Index respectively.

Weighting scheme: The indices are weighted by free-float market cap combined with a cap factor that depends on a company's aggregate ESG KPI score. All components are subject to a cap of 5%.

Base values and dates: 1000 on May 18, 2016.

Dissemination calendar: STOXX Americas calendar

14.4.2. INDEX REVIEW

Component list and weighting: In a first step, all companies that do not adhere to the UN Global compact principles, are involved in controversial weapons, or are coal miners (ICB Subsector 1771) are excluded from the universe.

Secondly, for all remaining companies, 5 KPIs are determined and standardized by industry²⁴. The standardized KPIs are aggregated using a linear combination with coefficients as stated in the table below.

KPI	Coefficient
CDP emission reduction target (binary)	0.4
% of independent board members	0.05
% women on the board	0.3
Policy against child labor (binary)	0.4
Golden 'chute agreement (binary)	-0.3

Thirdly, all companies with an ESG score greater or equal to the median ESG score build up the composition list.

The companies on the composition list are grouped into quintiles by their respective aggregated ESG score and are assigned cap factors ranging from 1.5 (higher score) to 0.5 (lower score) in 0.25 increments.

The companies are weighted by the product of their free-float market cap and the cap factor:

²⁴ For each company the average KPI within its ICB industry is subtracted and the result is divided by the standard deviation of the KPI within its industry. Afterwards companies without a KPI are assigned the mean (0).

14. STOXX SUSTAINABILITY INDICES

$$w_i = \frac{ffmcap_i \cdot cf_i}{\sum_{j \text{ in comp.list}} ffmcap_j \cdot cf_j}$$

For the global version, country weights are capped to not deviate from those of the universe by more than one percentage point (1%).

Components are capped to a maximum weight of 5%.

Review frequency: The indices are reviewed and rebalanced quarterly. The data cut-off date is the last business day of the month preceding the review month.

14.4.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Global 1800 are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

14. STOXX SUSTAINABILITY INDICES

14.5. STOXX REGIONAL INDUSTRY NEUTRAL ESG AND STOXX REGIONAL EXCLUDING TOBACCO INDUSTRY NEUTRAL ESG INDICES

14.5.1. OVERVIEW

The STOXX Regional Industry Neutral ESG and STOXX Regional Excluding Tobacco Industry Neutral ESG indices track the performance of the leading companies with regard to Environmental, Social and Governance criteria, based on ESG indicators based on a transparent rating model as provided by Sustainalytics.

Universe:

All securities from the STOXX Global 1800 index. Companies without a rating will not be included in the index. Only companies that are a constituent of STOXX Global 1800 as of July 15th are considered for the annual review in September.

Weighting scheme:

Free Float Market Cap with a capping algorithm to calculate component weights so that the ICB Industry weight of the index is similar to the ICB Industry weight of the Benchmark.

Base values and dates:

100 on 24 September 2012.

14.5.2. INDEX REVIEW

Selection list:

All securities from the STOXX Global 1800 index. Companies without a rating will not be included in the index. Only companies that are a constituent of STOXX Global 1800 as of July 15th are considered for the September review.

Before starting with the selection process a set of exclusion criteria is applied. The criteria follow the UN Global Compact Compliance Principles as well as a set of definitions for controversial weapons.

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies identified to be involved with controversial weapons. The following weapons are considered controversial: anti-personnel landmines, cluster weapons, chemical and biological weapons, depleted uranium munitions and nuclear weapons.

The criteria for involvement are:

- » Activity: A company is involved with the development, production, maintenance or trade of controversial weapons or key components of these weapons.
- » Ownership: A company is involved with controversial weapons if:

14. STOXX SUSTAINABILITY INDICES

- » it owns $\geq 20\%$ of the company involved with controversial weapons
- » it is owned $\geq 20\%$ by the company involved with controversial weapons

Additionally, for the STOXX Europe Excluding Tobacco Industry Neutral ESG and STOXX North America Excluding Tobacco Industry Neutral ESG indices, the sub-sector Tobacco (ICB Code 3785) is also excluded.

Component selection:

- **Regional Unbiased Industry Neutral ESG indices**

Regional Industry Neutral ESG indices for Europe and North America are created by selecting companies with an Environmental (E), Social (S) and Governance (G) score ≥ 50 for each of the E, S & G criteria, from the dataset as provided by Sustainalytics.

For the STOXX Europe Industry Neutral ESG and STOXX North America Industry Neutral ESG all companies fulfilling the requirements are selected.

The STOXX Europe Industry Neutral ESG 200 & 250 and the STOXX North America Industry Neutral ESG 150 & 200 indices are selected from the constituents of the broad indices (STOXX Europe Industry Neutral ESG and STOXX North America Industry Neutral ESG). For each constituent, Sustainalytics provides a Total Rating Score.

For the universe of the broad indices, rank the companies in descending order in terms of the Total Rating Score, i.e. from the highest to the lowest Total Rating Score.

For the Europe versions, select the top 200 and 250 companies. In the event where the 200th or 250th constituents have identical Total Rating Scores, the constituent with the highest free float market capitalization is selected.

For the North America versions, select the top 150 and 200 companies. In the event where the 150th or 200th constituents have identical Total Rating Scores, the constituent with the highest free float market capitalization is selected.

The following versions of the indices are available:

Benchmark Index	Associated ESG Index
STOXX Europe 600 Index	STOXX Europe Industry Neutral ESG
	STOXX Europe Industry Neutral ESG 200
	STOXX Europe Industry Neutral ESG 250
STOXX North America 600 Index	STOXX North America Industry Neutral ESG
	STOXX North America Industry Neutral ESG 150
	STOXX North America Industry Neutral ESG 200

- **Regional Excluding Tobacco Industry Neutral ESG indices**

From the universe, exclude all companies from the sub-sector Tobacco (ICB Code 3785). Regional Excluding Tobacco Industry Neutral ESG indices for Europe and North America are created by selecting companies with an Environmental (E), Social (S) and Governance (G) score ≥ 50 for each of the E, S & G criteria, from the dataset as provided by Sustainalytics.

14. STOXX SUSTAINABILITY INDICES

For the STOXX Europe Excluding Tobacco Industry Neutral ESG and STOXX North America Excluding Tobacco Industry Neutral ESG all companies fulfilling the requirements are selected.

The STOXX Europe Excluding Tobacco Industry Neutral ESG 200 & 250 and the STOXX North America Excluding Tobacco Industry Neutral ESG 150 & 200 indices are selected from the constituents of the broad indices (STOXX Europe Excluding Tobacco Industry Neutral ESG and STOXX North America Excluding Tobacco Industry Neutral ESG). For each constituent, Sustainalytics provides a Total Rating Score.

For the universe of the broad indices, rank the companies in descending order in terms of the Total Rating Score, i.e. from the highest to the lowest Total Rating Score.

For the Europe Excluding Tobacco versions, select the top 200 and 250 companies. In the event where the 200th or 250th constituents have identical Total Rating Scores, the constituent with the highest free float market capitalization is selected.

For the North America Excluding Tobacco versions, select the top 150 and 200 companies. In the event where the 150th or 200th constituents have identical Total Rating Scores, the constituent with the highest free float market capitalization is selected.

The following versions of the indices are available:

Benchmark Index	Associated ESG Index
STOXX Europe 600 Index	STOXX Europe Ex Tobacco Industry Neutral ESG
	STOXX Europe Ex Tobacco Industry Neutral ESG 200
	STOXX Europe Ex Tobacco Industry Neutral ESG 250
STOXX North America 600 Index	STOXX North America Ex Tobacco Industry Neutral ESG
	STOXX North America Ex Tobacco Industry Neutral ESG 150
	STOXX North America Ex Tobacco Industry Neutral ESG 200

Weighting scheme:

All components are free float market cap weighted with an capping algorithm which delivers an ICB Industry Neutral weighting compared to the benchmark, on a quarterly basis. The weightings are published on the second Friday of each quarter, one week prior to quarterly review implementation using Thursday's closing prices.

Determination of free-float market capitalization weights:

$$w_{it} = \frac{p_{it} \cdot n_{it} \cdot ff_{it}}{\sum_{i=1}^n p_{it} \cdot n_{it} \cdot ff_{it}}$$

w_{it} = Free Float Market Capitalization weight of company (i) at time (t)

p_{it} = Price of company (i) at time (t)

14. STOXX SUSTAINABILITY INDICES

n_{it} = Number of shares of company (i) at time (t)

ff_{it} = Free-float factor of company (i) at time (t)

n_{it} = Number of shares

Weighting Cap factors:

A capping algorithm is applied to calculate component weights so that the ICB Industry weight of the index is similar to the ICB Industry weight of the Benchmark.

Review frequency:

The components are reviewed annually in September. Shares, Free Float, and Capping are reviewed quarterly. For the capping procedure, the benchmark is defined as the new composition of the STOXX Europe 600 and STOXX North America 600 which becomes effective on the review date on the 3rd Friday of March, June, September and December.

14.5.3. ONGOING MAINTENANCE

Replacements:

Deleted companies are not replaced. If a company is deleted from the STOXX Global 1800 index, but remains in the STOXX Global Total Market index, the stock will not be excluded from the relevant Regional or Regional Excluding Tobacco ESG index. If a constituents is deleted, its weight will be distributed among the remaining constituents.

Fast exit:

In case a company which is an index constituent increases in its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two trading days after the announcement, i.e. at the open of the 3rd trading day. The constituent's weight will be distributed among the remaining constituents.

Fast entry:

Not applicable.

Spin-offs:

A spin-off is added temporarily for one trading day and is then removed from the index.

Mergers and takeovers:

Standard STOXX process.

Corporate Actions:

All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com)

14. STOXX SUSTAINABILITY INDICES

14.6. STOXX EUROPE 600 ESG-X INDEX

14.6.1. OVERVIEW

The objective of the STOXX Europe 600 ESG-X index is to reflect the STOXX Europe 600 index with standardized ESG exclusion screens applied for Global Compact Principles, Controversial Weapons, Thermal Coal and Tobacco Producers, with the aim of taking responsible investment criteria into account.

Universe: STOXX Europe 600

Weighting scheme: The indices are weighted according to free-float market capitalization.

Base values and dates: 100 on March 19, 2012.

For a complete list please consult the data vendor code sheet on the website²⁵. Customized solutions can be provided upon request.

Index types and currencies: Price, net return and gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar

14.6.2. INDEX REVIEW

Selection list:

From the universe, a set of exclusion criteria are applied which follow the UN Global Compact Compliance Principles, a set of definitions for Controversial Weapons, Tobacco and Coal.

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

- » Internal production or sale of controversial weapons
- » The ultimate holding company owns >10% of voting rights of an involved company

²⁵ http://www.STOXX.com/download/indices/vendor_codes.xls

14. STOXX SUSTAINABILITY INDICES

» >10% of voting rights of a company is owned by the involved company

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to be tobacco producers (0% revenue threshold).

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:

- » >25% revenues from thermal coal extraction (including thermal coal mining and exploration)
- » >25% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

Composition list: The composition list will consist of the companies that remain from the selection list once all the exclusion criteria have been applied.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

Weighting cap factors: Components are capped at a maximum weight of 20%.

Derived indices: None.

14.6.3. ONGOING MAINTENANCE

Replacements:

Deleted companies are not replaced.

Fast exit:

In case a company which is an index constituent increases in its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents, proportionally to their weights.

Fast entry:

Not applicable.

Spin-offs:

A spin-off is added temporarily for one dissemination day and is then removed from the index.

Mergers and takeovers:

Standard STOXX process.

Corporate Actions:

All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com)

14. STOXX SUSTAINABILITY INDICES

14.7. STOXX BENCHMARK ESG-X INDICES

14.7.1. OVERVIEW

The objective of the STOXX Benchmark ESG-X indices is to reflect STOXX Benchmark Indices with standardized ESG exclusion screens applied for Global Compact Principles, Controversial Weapons, Thermal Coal and Tobacco Producers, with the aim of taking responsible investment criteria into account.

STOXX country ESG-X indices

STOXX Australia 150 ESG-X

STOXX Canada 60 ESG-X

STOXX Canada 240 ESG-X

STOXX France 90 ESG-X

STOXX Italy 45 ESG-X

STOXX Japan 600 ESG-X

STOXX Singapore 75 ESG-X

STOXX Spain 30 ESG-X

STOXX UK 180 ESG-X

STOXX USA 500 ESG-X

STOXX USA 900 ESG-X

STOXX regional ESG-X indices

EURO STOXX 50 ESG-X

EURO STOXX ESG-X

STOXX Europe 50 ESG-X

STOXX Nordic 30 ESG-X

STOXX North America 600 ESG-X

STOXX Asia/Pacific 600 ESG-X

STOXX Global 1800 ESG-X

STOXX Global 3000 ESG-X

STOXX Developed Markets 2400 ESG-X

STOXX Emerging Markets 50 ESG-X

STOXX Emerging Markets 800 LO ESG-X

STOXX Emerging Markets 1500 ESG-X

Size subsets

EURO STOXX Large ESG-X

EURO STOXX Mid ESG-X

EURO STOXX Small ESG-X

STOXX Europe Large 200 ESG-X

STOXX Europe Mid 200 ESG-X

STOXX Europe Small 200 ESG-X

Sector subsets

EURO STOXX Banks ESG-X

STOXX Europe 600 Banks ESG-X

14. STOXX SUSTAINABILITY INDICES

STOXX total market ESG-X indices

EURO STOXX Total Market ESG-X

STOXX Europe Total Market ESG-X

STOXX Nordic Total Market ESG-X

STOXX Australia Total Market ESG-X

STOXX Developed Markets Total Market ESG-X

Size subsets

EURO STOXX Total Market Large ESG-X

EURO STOXX Total Market Mid ESG-X

STOXX Developed Markets Total Market Large ESG-X

STOXX Developed Markets Total Market Mid ESG-X

STOXX Emerging Markets Total Market Large ESG-X

STOXX Emerging Markets Total Market Mid ESG-X

Universe: The index universe is defined by the corresponding STOXX benchmark index.

Base values and dates: 100 on March 19, 2012 for all indices except for the STOXX Emerging Markets ESG-X indices, which have base values of 100 on December 21, 2012

Index types and currencies: Price, net return and gross return in EUR and USD. Local currency versions available for some country indices

Dissemination calendar: STOXX Europe calendar, except for STOXX USA 500 ESG-X Index, which relies on the STOXX Americas Calendar

For a complete list please consult the data vendor code sheet on the website²⁶. Customized solutions can be provided upon request.

14.7.2. INDEX REVIEW

Selection list:

From the universe, a set of exclusion criteria are applied which follow the UN Global Compact Compliance Principles, a set of definitions for Controversial Weapons, Tobacco and Coal.

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

²⁶ http://www.STOXX.com/download/indices/vendor_codes.xls

14. STOXX SUSTAINABILITY INDICES

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

- » Internal production or sale of controversial weapons
- » The ultimate holding company owns >10% of voting rights of an involved company
- » >10% of voting rights of a company is owned by the involved company

Tobacco:

STOXX will exclude companies that Sustainalytics identifies to be tobacco producers (0% revenue threshold).

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies to have:

- » >25% revenues from thermal coal extraction (including thermal coal mining and exploration)
- » >25% power generation capacity: coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operates coal-fired power plants).

Composition list: The composition list will consist of the companies that remain from the selection list once all the exclusion criteria have been applied.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December. The review cut-off date is the last dissemination day of the month preceding the review month.

Weighting cap factors: All components are capped at a maximum weight of 20%, except for the EURO STOXX 50 ESG-X components, which are capped at 10%

Derived indices: None.

14.7.3. ONGOING MAINTENANCE

Replacements:

Deleted companies are not replaced.

Fast exit:

In case a company which is an index constituent increases in its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents, proportionally to their weights.

Fast entry:

Not applicable.

Spin-offs:

A spin-off is added temporarily for one dissemination day and is then removed from the index.

14. STOXX SUSTAINABILITY INDICES

Mergers and takeovers:

Standard STOXX process.

Corporate Actions:

All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com)

15. STOXX FAITH-BASED INDICES

15.1. STOXX EUROPE CHRISTIAN INDEX

15.1.1. OVERVIEW

The STOXX Europe Christian Index is designed to provide European equity market availability to investors who seek equity ownership in alignment with the moral and social teachings of the Christian religion (social, environmental, ethical and economic responsibility).

Universe: Calculated for the following region as defined in section 4.3: Europe

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and date: 100 on December 31, 2004.

Index types and currencies: Price and net return in EUR and USD.

15.1.2. INDEX REVIEW

Component selection

Target coverage: all companies in the STOXX Europe 600 Index that indicate high levels of competence in addressing Christian values (social, environmental, ethical and economic responsibilities) as a business approach.

For inclusion to the index, strict limits are applied to the company's share of revenues generated in the following areas: pornography, weapons, tobacco, birth control and gambling. The screening of companies is performed by an independent committee.

Review frequency: The STOXX Europe Christian index is reviewed on a semi-annual basis.

Weighting cap factors: The components are capped at 20% on the quarterly review.

15.1.3. ONGOING MAINTENANCE

The components of the STOXX Europe Christian index are monitored for eligibility. If a company is no longer eligible it is removed from the index at the next quarterly review.

Replacements: Stocks deleted from the STOXX Europe 600 are deleted from the STOXX Europe Christian index without replacements.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently.

16. STOXX RISK BASED INDICES

16.1. STOXX MINIMUM VARIANCE AND MINIMUM VARIANCE UNCONSTRAINED INDICES

16.1.1. OVERVIEW

The STOXX Minimum Variance indices are based on benchmark indices, including the STOXX Global 1800 index, regional and country indices, but weighting will be done via a minimum variance optimization. The index family is designed as a strategic overlay on the existing global family of market-cap weighted STOXX indices. The aim will be to have these covering major regions, and then most major countries, still at the benchmark level.

Universe: The components of the STOXX Global 1800 Minimum Variance and STOXX Global 1800 Minimum Variance Unconstrained indices are selected from the STOXX Global 1800 index. Similarly, other STOXX [region] [number] Minimum Variance indices are derived from other STOXX [region] [number] benchmark indices.

Weighting scheme: The indices are price weighted according to a minimum variance optimization

Base values and date: 100 on May 04, 2012

Index types and currency: Price, net and gross return in EUR and USD. Further currency version for local countries available.

For a complete list please consult the data vendor code sheet on the website²⁷.

16.1.2. INDEX REVIEW

Component selection and weighting cap-factors:

The indices are derived from the STOXX regional country benchmark indices. Axioma's Second-Order Cone with Branch-and-Bound Optimisation process is used.

For each benchmark index, there will be two different types of minimum variance overlays. The first will aim to optimize the portfolio with respect to variance, while not modifying other attributes (other factors, country/industry exposure) too much. That way the Minimum Variance index will be very similar to the parent benchmark index but with reduced variance, suitable for investors seeking a better benchmark or an improved version of a benchmark. The second version will have more loosely stated constraints and will aim seek to obtain a more raw minimum variance portfolio, suitable for investors seeking either an even superior benchmark or a good strategy index. Due to the optimization process the Minimum Variance indices may have less constituents than the original index.

The following indices use a revised optimization model for the Minimum Variance ("Tracking error constrained") methodology:

²⁷ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

Name

STOXX China A 900 Minimum Variance**STOXX Emerging Markets 800 LO Minimum Variance**

Constraint	Minimum Variance Unconstrained	Minimum Variance ("Regular")	Minimum Variance ("Tracking error constrained")
Individual capping	4.5% / 8% / 35%	4.5% / 8% / 35%	Max(2%, weight in parent) / 8% / 35%
Effective number of assets Rebalancing and max. turnover	30% of parent benchmark Monthly, 5%	30% of parent benchmark Quarterly, 7.5%	60% of parent benchmark Quarterly, 5%
Country/industry exposure	None	Within 5% of parent benchmark	Within 5% of parent benchmark
Factor exposure (except Size/Volatility)	None	Within 0.25 std. dev. of parent benchmark	Within 0.25 std. dev. of parent benchmark
Tracking error	None	None	Within 5% w.r.t. parent benchmark
Max. number of names	None	None	Less or equal to Max(Min(Names in parent / 4, 500), 80)

Individual capping

We apply constraints such that maximum weights (5%/10%/40%) are not exceeded, whereby a component cannot have a weight more than 10%, and the sum of all those who have at least 5% cannot exceed 40%. By applying tighter constraints, we reduce the chance of breaching these figures, and reduce the gravity of the breaches if and when they occur.

The tracking error constrained version's methodology in addition limits the individual weights to the greater of the company's weight in the corresponding parent benchmark or 2%.

If the benchmark index itself does not satisfy the individual capping constraints those are not enforced on the corresponding Minimum Variance indices.

Effective number of assets

The effective number of assets of an index is the value, H, defined as:

$$H = \frac{1}{\sum w^2}$$

which gives an accurate measure of the number of assets that affect a portfolio. The number of components in an index that is weighted by optimisation must be defined along those lines as otherwise, we force the optimization to have many component with insignificant weights.

The constraint is defined as follows for the Unconstrained and regular index:

$$H_{\text{MinVar}} \geq H_{\text{Base}} \cdot 30\%$$

For the tracking error constrained version it is defined as:

$$H_{\text{MinVar}} \geq H_{\text{Base}} \cdot 60\%$$

16. STOXX RISK BASED INDICES

Maximum turnover

The Unconstrained version has a 5% one-way turnover constraint, or 10% two-way. This means up to 5% of the portfolio is sold in order to purchase other components (absolute maximum annual turnover is 120%).

The regular versions have 7.5% one-way or 15% two-way (absolute maximum annual turnover is 60%).

The tracking error constrained version have 5% one-way or 10% two-way (absolute maximum annual turnover is 40%).

Minimum liquidity requirement

Recognizing that minimum variance portfolios may sometimes prefer to hold slightly less liquid stocks, the minimum liquidity requirement ensures that there is no material buildup in illiquid positions in certain segments of the portfolio.

The weighted average days-to-trade d_s for a given group of holdings S are defined as:

$$d_s = \sum_{i \in S} w_i \cdot \frac{h_i}{ADV_i}$$

where $h_i = w_i \cdot N$ represents the holdings for stock i and ADV_i represents its average 20-day average daily volume.

Stocks in the benchmark index are ranked by trading volume, and liquidity constraints are imposed on stocks in the two least liquid quintiles. For each of these quintiles Q , the weighted average days to trade of the positions therein is required to be no more than 10 times the weighted average days to trade of the same stocks held at corresponding benchmark weights.

$$\sum_{i \in Q} w_i \cdot \frac{w_i \cdot N}{ADV_i} \leq \gamma \cdot \sum_{i \in Q} b_i \cdot \frac{b_i \cdot N}{ADV_i}$$

Each position value has been rewritten in terms of the portfolio notional value N .

The parameter γ is set to 10.

b_i represents weights in the corresponding capitalization-weighted benchmark index.

Countries, Industries and Factors exposure

These constraints are not applied to the Unconstrained version.

The exposure to each country and industry is summed up for the parent benchmark index, and the percentage exposure of the Minimum Variance index has to be within 5% of those numbers.

The parent index' exposure to each factor is computed and the Minimum Variance is constrained to be within a quarter standard deviation of that.

These constraints make sure the Minimum Variance index is closely related in structure to the parent index, except for risk. Size is redundant as the parent index is a benchmark index excluding micro caps and most small caps.

16. STOXX RISK BASED INDICES

Tracking error

The tracking error constrained version's tracking error is limited to a maximum of 5% with the exception of the Emerging Market version which has a 7% limit.

Maximum number of names

The tracking error constrained version's number of names in the index is limited to:

$$|MV| \leq \text{Max} \left(\text{Min} \left(\frac{|BM|}{4}, 500 \right), 80 \right)$$

where

|MV| = number of names in the Minimum Variance index

|BM| = number of names in the corresponding parent benchmark index

Review frequency

The Unconstrained versions are reviewed monthly (implementation of all changes after the close of the third Friday and effective the next trading day), all other indices rebalance quarterly, in sync with the parent index (implementation after the close of the third Friday and effective the next trading day in March, June, September and December).

Derived indices: Not applicable.

16.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

16. STOXX RISK BASED INDICES

16.2. STOXX CHINA A 900 MINIMUM VARIANCE UNCONSTRAINED AM

16.2.1. OVERVIEW

The STOXX China A 900 Minimum Variance Unconstrained AM (Accessible Market) index represents the shares available to foreign investors through Northbound Trading segments of the Shanghai-Hong Kong Stock Connect or Shenzhen-Hong Kong Stock Connect programs of its parent index STOXX China A 900 Minimum Variance Unconstrained.

Universe: The index universe is defined by the parent index, STOXX China A 900 Minimum Variance Unconstrained.

Weighting scheme: The indices are price weighted according to a minimum variance optimization.

Base values and dates: 100 on May 4, 2012

Index types and currencies: Price, net return, and gross return in EUR, USD, and CNY.

16.2.2. INDEX REVIEW

Composition list: The data cut-off date is the second Friday. All components of the STOXX China A 900 Minimum Variance Unconstrained index implemented on the following Friday that, as of the cut-off day, are eligible for Northbound trading (for both buying and selling) on either Shanghai Connect or Shenzhen Connect²⁸ build up the composition list.

Review frequency: The index is reviewed monthly in line with its parent index. Starting with the April 2019 review, in case the implementation date falls on a day on which Northbound trading via Stock Connect at the Hong Kong Exchange is not available the implementation day is postponed to the next dissemination day when Northbound trading is available.

Weighting cap factors: Weighting cap factors of the parent index are used.

16.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently. They will be deleted at the close of the day they start to trade with traded price being available.

Mergers and takeovers: The surviving stock remains in the index.

²⁸ An updated list is available on

https://www.hkex.com.hk/eng/market/sec_tradinfra/chinaconnect/Eligiblestock.htm

16. STOXX RISK BASED INDICES

Corporate Actions: All components are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com)

16. STOXX RISK BASED INDICES

16.3. STOXX LOW RISK WEIGHTED

16.3.1. OVERVIEW

The STOXX Low Risk Weighted Indices select and weight companies from their respective benchmark indices and provide access to a low volatility portfolio.

Universe

STOXX Europe Low Risk Weighted 100, 200, 300 selected from STOXX Europe 600

EURO STOXX Low Risk Weighted 50, 100, 150 selected from EURO STOXX

EURO STOXX 50 Low Risk Weighted 30, 50 selected from EURO STOXX 50

STOXX USA Low Risk Weighted 300 selected from STOXX USA 900

STOXX Japan Low Risk Weighted 300 selected from STOXX Japan 600

Weighting scheme: Price-weighted with a weighting factor based on the inverse of the 12-month volatility with 10% component capping.

Base value and dates: For STOXX USA Low Risk Weighted 300 and STOXX Japan Low Risk Weighted 300: 100 on March 18, 2002. For all others: 100 on January 31, 2011.

Index types and currencies: For STOXX Japan Low Risk Weighted 300: price, net return and gross return in EUR and JPY. For all others: price, net return and gross return in EUR and USD.

16.3.2. INDEX REVIEW

Component selection

At cut-off date of the quarterly review month for all components of the respective benchmark the 12-month historical volatility is calculated on component level.

All components are ranked from lowest to highest volatility and depending on the target number of index constituents, the top ranked components are selected for the index.

Although a 12-month historical volatility is used for the selection of the constituents, a 12-month index membership is not required.

Review frequency: The index is reviewed on a quarterly basis, in line with the STOXX Benchmark indices.

Weighting and capping factors: The weighting factors are calculated based on the inverse of the 12-month historical volatility, as follows:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i = weight of component (i)

σ_i historical 12 month volatility of component (i)

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR), rounded to integers

Additionally components are capped at a maximum weight of 10% quarterly.

16.3.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

16. STOXX RISK BASED INDICES

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-Offs: Spin-off stocks are not added permanently.

16. STOXX RISK BASED INDICES

16.4. STOXX EUROPE LOW BETA HIGH DIVIDEND 50

16.4.1. OVERVIEW

The index is tracking 50 companies out of STOXX Europe 600 with the lowest beta to the EURO STOXX 50 and which have a higher dividend yield than the EURO STOXX 50 index

Universe: All companies of the STOXX Europe 600 as it will be effective at the periodic index review in December

Weighting scheme: Price weighted with a weighting factor based on the average daily traded value – (ADTV) over three months. Maximum weights are capped at 5% for each components

Base values and dates: 100 on December 31, 2002

Index types and currencies: Price, net return, gross return in EUR and USD

16.4.2. INDEX REVIEW

Selection list

All stocks in the universe must fulfill the following criteria at the cut-off date, the last trading day in November, to be eligible for the selection list:

- » A price history of at least one year prior to the cut-off date
- » A 3 months average daily traded value (ADTV) of at least 5mln EUR
- » A net dividend yield greater than the EURO STOXX 50 net dividend yield measured over 12 months

$$NDY_{iT} = \frac{\sum D_{it}(1 - \text{taxrate}_t)}{P_{iT}}$$

NDY_{iT} = Dividend Yield of company i at the cut-off date T

D_{it} = dividend of company i at time t where $T - 12 \text{ months} < t \leq T$

taxrate_t = Taxrate of the home country of company i prevailing at time t

P_{iT} = closing price of company i at the cut-off date T

$$NDY_{\text{EURO STOXX 50}} = 1Y \text{ perf}_{\text{EURO STOXX 50 Ret Return}} - 1Y \text{ perf}_{\text{EURO STOXX 50 Price}}$$

- » All stocks are ranked by the beta²⁹ over 12 months against the EURO STOXX 50 in ascending order. Positive and negative beta values are included. If two stocks have the same beta, the one with the largest 3 months ADTV will have the best rank

Composition list

The 50 highest ranked stocks from the selection list are chosen for the index composition (the one with lowest beta). No buffer rules are applied. From each country a maximum of 8 stocks can be selected

²⁹ The formulas for statistical calculations are available in the STOXX Statistical Calculation Guide under <http://www.stoxx.com/indices/rulebooks.html>

16. STOXX RISK BASED INDICES

Review frequency

The index composition is reviewed annually in December. All changes are implemented on the third Friday and effective the next trading day following the STOXX periodic review calendar. The cut-off date for the selection list and the ADTV data to calculate the weights is the last business day of the month preceding the review month. The selection list is produced annually.

Weighting and capping factors:

Weight of company i is calculated as following:

$$w_i = \frac{3M \text{ ADTV } EUR_i}{\sum_{j=1}^{50} 3M \text{ ADTV } EUR_j}$$

where the denominator is the sum of 3 months ADTV in EUR of all the 50 companies within the index.

Weighting cap factor = $(1,000,000,000 \times \text{initial weight} / \text{closing price of the stock in EUR})$, rounded to integers

The final components weights are capped at 5% each quarter.

16.4.3. ONGOING MAINTENANCE

Replacements:

A deleted company is replaced with highest ranked non-component from the selection list and added with weight of the leaving company (weight in = weight out)

If one company is excluded from the STOXX Europe 600 between review dates, but remains in the STOXX Global TMI, this company will not be excluded from the STOXX Europe Low Beta High Div 50 Index.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index.

16. STOXX RISK BASED INDICES

16.5. STOXX SHARPE RATIO INDICES

16.5.1. OVERVIEW

The STOXX Sharpe Ratio indices include stocks from the respective benchmarks that have the highest Sharpe ratios, while excluding those with low dividend yields and low liquidity.

Universe: STOXX Global 1800 for the Global version, STOXX [Region] 600 for the regional versions (Europe, North America, Asia/Pacific)

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical one year volatility

Base values and dates: 100 on Dec 31, 2004

Index types and currencies: Price, net and gross return in EUR and USD
For a complete list please consult the data vendor code sheet on the website³⁰.

16.5.2. INDEX REVIEW

Selection list:

At the cutoff date, every stocks from the starting universe is screened for liquidity and the gross dividend yield. Stocks are excluded if:

- Their average daily traded value over six month (ADTV 6M) is below 1 mln EUR (below 5mln for the Global version)
- Their gross dividend yield is not in the top 20% of the universe

In case, less than 50 (100 for the global version) stocks are passing the criteria, the gross dividend yield threshold is loosened to have at least 50 (100) companies (the best 50 /100 stocks by gross dividend yield) on the selection list.

If more than 50 (100) stock pass the initial screening for each stock the Sharpe Ratio is calculated as following and all stocks are ranked according to their Sharpe Ratio value:

$$Sharpe\ ratio_i = \frac{(1Y\ return\ in\ EUR_i - Max[0; GC\ Pooling\ 12M\ in\ EUR_i])}{Volatility\ of\ the\ EUR\ price_i}^{31}$$

In case the GC pooling value is not available at the calculation time, the most recent value is used.

Composition list:

The highest ranked 50 stocks are selected for inclusion for the regional version (the highest ranked 100 stocks for the global version).

³⁰ http://www.STOXX.com/download/indices/vendor_codes.xls

³¹ Derived from Sharpe (1966) "reward-to-variability ratio"

16. STOXX RISK BASED INDICES

Review frequency: The reviews are conducted on a quarterly basis. The review cut-off date for the underlying data is the last trading day of the month preceding the review.

Weighting and capping factors: The weighting factors are calculated based on the inverse of the 12-month historical volatility, as follows:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i weight of component (i)

σ_i historical 12 month volatility of component (i)

Weighting cap factor = (100,000,000 x initial weight / closing price of the stock i in EUR), rounded to integers

Additionally components are capped at a maximum weight of 10% quarterly.

16.5.3. ONGOING MAINTENANCE

Replacements: A deleted company is replaced with highest ranked non-component from the selection list and added with weight of the leaving company (weight in = weight out). A company excluded from the parent index but not from the STOXX Total Market index will not be excluded from the STOXX Sharpe ratio indices

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: A spin-off is added temporarily for one trading day and is then removed from the index

16. STOXX RISK BASED INDICES

16.6. STOXX SELECT INDICES

16.6.1. STANDARD STOXX SELECT INDICES

16.6.1.1. OVERVIEW

The STOXX Select family of indices measures the performance of stocks with low volatility and high dividend yield. The index family is derived from regional standard benchmark and thematic indices. The components are weighted by the inverse of the volatility.

Universe: The index universe is defined by the parent index as of the review effective date.

Parent Index/Universe	STOXX Select Index
STOXX Global 1800	STOXX Global Select 100 EUR
STOXX Global 1800	STOXX Global Select 100 USD
STOXX Europe 600	STOXX Europe Select 50 EUR
STOXX North America 600	STOXX North America Select 50 USD
STOXX North America 600	STOXX North America Select 50 EUR
STOXX Asia/Pacific 600	STOXX Asia/Pacific Select 50 JPY
STOXX Asia/Pacific 600	STOXX Asia/Pacific Select 50 EUR
STOXX Nordic Total Market	STOXX Nordic Select 30 SEK
EURO STOXX	EURO STOXX Select 50 EUR
STOXX Emerging Markets 1500	STOXX Emerging Markets Select 100 EUR
STOXX Emerging Markets 1500	STOXX Emerging Markets Select 100 USD
STOXX Emerging Markets 1500 excluding Pakistani stocks	STOXX Emerging Markets ex PK Select 100 EUR
STOXX Emerging Markets 1500 excluding Pakistani stocks	STOXX Emerging Markets ex PK Select 100 USD
STOXX USA 900	STOXX USA Select 50 USD
STOXX Japan 600	STOXX Japan Select 50 JPY
STOXX Canada Total Market	STOXX Canada Select 30 CAD
STOXX Global ESG Leaders	STOXX Global ESG Leaders Select 50 EUR
STOXX Global ESG Leaders	STOXX Global ESG Leaders Select 50 USD
All European stocks from the Global ESG Leaders	STOXX Europe ESG Leaders Select 30 EUR
STOXX Europe Sustainability	STOXX Europe Sustainability Select 30 EUR
STOXX Europe Christian	STOXX Europe Christian Select 30 EUR
STOXX Europe True Exposure 50%	STOXX Europe True Exposure 50% Select 30 EUR
STOXX Europe True Exposure 50%	STOXX Europe True Exposure 50% Select 30 USD
All stocks from the STOXX Europe 600 but not in STOXX Europe True Exposure 50%	STOXX Europe International Exposure Select 30 EUR
All stocks from the STOXX Europe 600 but not in STOXX Europe True Exposure 50%	STOXX Europe International Exposure Select 30 USD
STOXX Global ESG Social Leaders	STOXX Global ESG Social Leaders Select 30 EUR
All European stocks from the STOXX Global ESG Social Leaders	STOXX Europe ESG Social Leaders Select 30 EUR
STOXX Global ESG Environmental Leaders	STOXX Global ESG Environmental Leaders Select 30 EUR
All European stocks from the STOXX Global ESG Environmental Leaders	STOXX Europe ESG Environmental Leaders Select 30 EUR
STOXX Global ESG Governance Leaders	STOXX Global ESG Governance Leaders Select 30 EUR

16. STOXX RISK BASED INDICES

All European stocks from the STOXX Global ESG Governance Leaders	STOXX Europe ESG Governance Leaders Select 30 EUR
All stocks from the STOXX Global Broad Infrastructure, STOXX Global Infrastructure Extended 100 and STOXX Global Infrastructure Suppliers 50 indices	STOXX Global Infrastructure Select 30 EUR
All stocks from the STOXX Global Broad Infrastructure, STOXX Global Infrastructure Extended 100 and STOXX Global Infrastructure Suppliers 50 indices	STOXX Global Infrastructure Select 30 USD
STOXX Global 1800 Industry Health Care	STOXX Global Health Care Select 30 EUR
STOXX Global 1800 Industry Health Care	STOXX Global Health Care Select 30 USD
STOXX Global 1800 Industry Technology	STOXX Global Technology Select 30 EUR
STOXX Global 1800 Industry Technology	STOXX Global Technology Select 30 USD

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility)

Base values and dates: 100 on March 22, 2004 for the STOXX Global Infrastructure Select 30, STOXX Global Health Care Select 30 and STOXX Global Technology Select 30 indices. 100 on June 18, 2007 for the STOXX Emerging Markets ex PK Select indices. 100 on June 21, 2004 for all the others.

Index types and currencies: Price, net and gross return
For a complete list, please consult the data vendor code sheet on the website³².

16.6.1.2. INDEX REVIEW

Selection list:

The review cut-off date is the last trading day of the month preceding the review month of the index.

All stocks in the relevant base universe are screened for their 12-month historical dividend yield. If the value is not available for a stock, the company is removed from the base universe. Additionally, if there are more than 10% of trading days suspension, the stock is excluded:

$$\text{Min Number of Price Observations}_{\text{period}} = \text{Number of Trading Days}_{\text{period}} \times 0.9$$

For the following base indices a liquidity screening is applied and the remaining stocks compose the Eligible Universe:

Base index	3 Months ADTV Threshold
STOXX Emerging Markets 1500	EUR 1 Mln / USD 1 Mln
STOXX USA 900	USD 1 Mln
STOXX Japan 600	JPY 100 Mln

³² http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

STOXX Canada Total Market	CAD 1 Mln
STOXX Nordic Total Market	SEK 10 Mln
STOXX Global Infrastructure	EUR 3 Mln / USD 3 Mln
Select 30	

Composition list:

The following Equal Strength Ratio is calculated

$$ESR = \sqrt{\frac{x}{N}}$$

where,

N Number of stocks in the Eligible Universe
 x Number of stocks in the final index

All stocks from the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in the currency of the final index) and companies are selected based on the ESR:

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (ESR \times N)$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked x stocks are selected for the final index. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The weights are based on the prices of the Thursday prior to the second Friday of the review month:

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i weight of component (i)

σ_i Maximum between the historical 12-months and 3-months volatility of component, based on prices converted to the index currency (i)

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR), rounded to integers

Additionally, components are capped at a maximum weight of 10%.

16. STOXX RISK BASED INDICES

16.6.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com).

16. STOXX RISK BASED INDICES

16.6.2. STOXX LOW CARBON SELECT INDICES

16.6.2.1. OVERVIEW

The STOXX Low Carbon Select family of indices measures the performance of low carbon emissions stocks with low volatility and high dividend yield. The components are weighted by the inverse of their volatility.

Universe: The index universe is defined by the parent index as of the review effective date, excluding ICB Code 1771 (Coal).

Parent Index/Universe	STOXX Select Index
STOXX Global 1800	STOXX Global Low Carbon Select 100 EUR
EURO STOXX	EURO STOXX Low Carbon Select 50 EUR
STOXX Europe 600	STOXX Europe Low Carbon Select 50 EUR
All US stocks from the STOXX Global 1800	STOXX USA Low Carbon Select 50 USD

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility)

Base values and dates: 100 on June 21, 2004

Index types and currencies: Price, net and gross return

For a complete list please consult the data vendor code sheet on the website³³.

16.6.2.1. INDEX REVIEW

Selection list:

The review cut-off date is the last trading day of the month preceding the review month of the index. The review in March, June and September will use the same carbon intensity score as the one used in the last December review.

All stocks in the relevant base universe are screened for their Carbon Intensity (reported and estimated) and 12-months historical dividend yield. If one or more values are not available for a stock, the company is removed from the base universe. Additionally, if there are more than 10% of trading days suspension, the stock is excluded:

$$\text{Min Number of Price Observations}_{\text{period}} = \text{Number of Trading Days}_{\text{period}} \times 0.9$$

Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million)

The data consists of both Reported (from CDP: companies voluntarily reporting on annual basis, amongst others, Scope 1 & 2 GHG emissions) and Estimated data (from ISS-Ethics Climate Solutions, who uses, amongst others, CDP data to estimate GHG emissions with a model developed in cooperation with the Zurich ETH university, for companies that do not report to CDP).

³³ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

Composition list:

The following Equal Strength Ratio is calculated

$$ESR = \sqrt[3]{\frac{x}{N}}$$

where,

N Number of stocks in the Eligible Universe

x Number of stocks in the final index

In each of the 10 ICB industries, all stocks are sorted in ascending order in terms of Carbon Intensity and companies are selected based on the ESR:

$$\begin{aligned} &\text{number of companies to select in industry A (Carbon Intensity screen)} \\ &= \text{round down of } (ESR \times N_A) \end{aligned}$$

where,

A one of the 10 ICB industries

N_A Number of stocks in the Eligible Universe from industry A

All selected stocks are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in the currency of the final index) and companies are selected based on the ESR.

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (ESR^2 \times N)$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked x stocks are selected for the final index. If two stocks have the same carbon intensity, priority goes to the stock with the highest dividend yield. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The weights are based on the prices of the Thursday prior to the second Friday of the review month

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i weight of component (i)

σ_i Maximum between the historical 12-month and 3-month volatility of component (i), based on prices converted to the index currency

16. STOXX RISK BASED INDICES

Weighting cap factor = $(1,000,000,000 \times \text{initial weight} / \text{closing price of the stock in EUR})$, rounded to integers

Additionally, components are capped at a maximum weight of 10%.

16.6.2.2. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com).

16. STOXX RISK BASED INDICES

16.7. STOXX DIVERSIFICATION SELECT INDICES

16.7.1. STANDARD STOXX DIVERSIFICATION SELECT INDICES

16.7.1.1. OVERVIEW

The STOXX Diversification Select family of indices measure the performance of stocks with low correlation, low volatility and high dividend yield. The index family is derived from regional standard benchmark and thematic indices. The components are weighted by the inverse of the volatility.

Universe: The index universe is defined by the parent index as of the review effective date.

Parent Index/Universe	STOXX Diversification Select Index
STOXX Global 1800	STOXX Global Diversification Select 100 EUR
STOXX Global 1800	STOXX Global Diversification Select 100 USD
STOXX Europe 600	STOXX Europe Diversification Select 50 EUR
STOXX North America 600	STOXX North America Diversification Select 50 USD
STOXX North America 600	STOXX North America Diversification Select 50 EUR
STOXX Asia/Pacific 600	STOXX Asia/Pacific Diversification Select 50 JPY
STOXX Asia/Pacific 600	STOXX Asia/Pacific Diversification Select 50 EUR
STOXX Nordic Total Market	STOXX Nordic Diversification Select 30 SEK
EURO STOXX	EURO STOXX Diversification Select 50 EUR
STOXX Emerging Markets 1500	STOXX Emerging Markets Diversification Select 100 EUR
STOXX Emerging Markets 1500	STOXX Emerging Markets Diversification Select 100 USD
STOXX USA 900	STOXX USA Diversification Select 50 USD
STOXX Japan 600	STOXX Japan Diversification Select 50 JPY
STOXX Canada Total Market	STOXX Canada Diversification Select 30 CAD
STOXX Global ESG Leaders	STOXX Global ESG Leaders Diversification Select 50 EUR
STOXX Global ESG Leaders	STOXX Global ESG Leaders Diversification Select 50 USD
All European stocks from the Global ESG Leaders	STOXX Europe ESG Leaders Diversification Select 30 EUR
STOXX Europe Sustainability	STOXX Europe Sustainability Diversification Select 30 EUR
STOXX Europe Christian	STOXX Europe Christian Diversification Select 30 EUR
STOXX Europe True Exposure 50%	STOXX Europe True Exposure 50% Diversification Select 30 EUR
STOXX Europe True Exposure 50%	STOXX Europe True Exposure 50% Diversification Select 30 USD
All stocks from the STOXX Europe 600 but not in STOXX Europe True Exposure 50%	STOXX Europe International Exposure Diversification Select 30 EUR
All stocks from the STOXX Europe 600 but not in STOXX Europe True Exposure 50%	STOXX Europe International Exposure Diversification Select 30 USD
STOXX Global ESG Social Leaders	STOXX Global ESG Social Leaders Diversification Select 30 EUR
All European stocks from the STOXX Global ESG Social Leaders	STOXX Europe ESG Social Leaders Diversification Select 30 EUR
STOXX Global ESG Environmental Leaders	STOXX Global ESG Environmental Leaders Diversification Select 30 EUR
All European stocks from the STOXX Global ESG Environmental Leaders	STOXX Europe ESG Environmental Leaders Diversification Select 30 EUR

16. STOXX RISK BASED INDICES

STOXX Global ESG Governance Leaders	STOXX Global ESG Governance Leaders Diversification Select 30 EUR
All European stocks from the STOXX Global ESG Governance Leaders	STOXX Europe ESG Governance Leaders Diversification Select 30 EUR

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility)

Base values and dates: 100 on June 21, 2004

Index types and currencies: Price, net and gross return

For a complete list please consult the data vendor code sheet on the website³⁴.

16.7.1.2. INDEX REVIEW

Selection list:

The review cut-off date is the last trading day of the month preceding the review month of the index.

All stocks in the relevant base universe are screened for their 12-months historical dividend yield. If the value is not available for a stock, the company is removed from the base universe. Additionally, if there are more than 10% of trading days suspension, the stock is excluded:

$$\text{Min Number of Price Observations}_{\text{period}} = \text{Number of Trading Days}_{\text{period}} \times 0.9$$

For the following base indices, a liquidity screening is applied and the remaining stocks compose the Eligible Universe:

Base index	3 Months ADTV Threshold
STOXX Emerging Markets 1500	EUR 1 Mln / USD 1 Mln
STOXX USA 900	USD 1 Mln
STOXX Japan 600	JPY 100 Mln
STOXX Canada Total Market	CAD 1 Mln
STOXX Nordic Total Market	SEK 10 Mln

Composition list:

The following Equal Strength Ratio is calculated

$$ESR = \sqrt[3]{\frac{\bar{x}}{N}}$$

where,

³⁴ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

N Number of stocks in the Eligible Universe
 x Number of stocks in the final index

All stocks from the Eligible Universe are sorted in ascending order in terms of correlation (average of the 12-month correlation of one stock with all other stocks of the Eligible Universe in the currency of the final index) and companies are selected based on the ESR.

$$\text{number of companies to select (Correlation screen)} = \text{round down of } (ESR \times N)$$

All stocks from the Eligible Universe are sorted in ascending order in terms of volatility (maximum between the 3-month and 12-month historical volatility in the currency of the final index) and companies are selected based on the ESR.

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (ESR^2 \times N)$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked x stocks are selected for the final index. In case of identical average correlation, priority goes to the stock with the highest dividend yield. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The weights are based on the prices of the Thursday prior to the second Friday of the review month

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i weight of component (i)

σ_i Maximum between the historical 12-month and 3-month volatility of component (i), based on prices converted to the index currency

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR) rounded to integers

Additionally, components are capped at a maximum weight of 10%.

16.7.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently to the index.

16. STOXX RISK BASED INDICES

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on stoxx.com.

16.7.2. STOXX LOW CARBON DIVERSIFICATION SELECT INDICES

16.7.2.1. OVERVIEW

The STOXX Low Carbon Diversification Select family of indices measure the performance of low carbon emissions stocks with low correlation, low volatility and high dividend yield. The components are weighted by the inverse of the volatility.

Universe: The index universe is defined by the parent index as of the review effective date, excluding ICB Code 1771 (Coal).

Parent Index/Universe	STOXX Diversification Select Index
STOXX Global 1800	STOXX Global Low Carbon Diversification Select 100 EUR
EURO STOXX	EURO STOXX Low Carbon Diversification Select 50 EUR
STOXX Europe 600	STOXX Europe Low Carbon Diversification Select 50 EUR
All US stocks from the STOXX Global 1800	STOXX USA Low Carbon Diversification Select 50 USD

Weighting scheme: The indices are price-weighted with a weighting factor based on the inverse of their historical volatility (maximum between their 3-month and 12-month historical volatility)

Base values and dates: 100 on June 21, 2004

Index types and currencies: Price, net and gross return

For a complete list please consult the data vendor code sheet on the website³⁵.

16.7.2.1. INDEX REVIEW

Selection list:

The review cut-off date is the last trading day of the month preceding the review month of the index. The review in March, June and September will use the same carbon intensity score as the one used for the last December review.

All stocks in the relevant base universe are screened for their Carbon Intensity (reported and estimated) and 12-month historical dividend yield. If one or more values are not available for a stock, the company is removed from the base universe. Additionally, if there are more than 10% of trading days suspension, the stock is excluded:

$$\text{Min Number of Price Observations}_{\text{period}} = \text{Number of Trading Days}_{\text{period}} \times 0.9$$

Carbon Intensity = (Scope 1 + Scope 2 GHG emissions) / Revenue (USD million))

³⁵ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

The data consists of both Reported (from CDP: companies voluntarily annually report, amongst others, Scope 1 & 2 GHG emissions) and Estimated data (from ISS-Ethix Climate Solutions, who uses, amongst others, CDP data to estimate GHG emissions with a model developed in cooperation with the Zurich ETH university, for companies that do not report to CDP).

The following Equal Strength Ratio is calculated

$$ESR = \sqrt[4]{\frac{x}{N}}$$

where,

N Number of stocks in the Eligible Universe

x Number of stocks in the final index

In each of the 10 ICB industries, all stocks are sorted in ascending order in terms of Carbon Intensity (Reported and Estimated) and companies are selected based on the ESR.

$$\begin{aligned} &\text{number of companies to select in industry A (Carbon Intensity screen)} \\ &= \text{round down of } (ESR \times N_A) \end{aligned}$$

where,

A one of the 10 ICB industries

N_A Number of stocks in the Eligible Universe from industry A

All selected stocks are sorted in ascending order in terms of correlation (average of the 12-month correlation of one stock with all other stocks of the Eligible Universe in the currency of the final index) and companies are selected based on the ESR.

$$\text{number of companies to select (Correlation screen)} = \text{round down of } (ESR^2 \times N)$$

All selected stocks are sorted in ascending order in terms of volatility (maximum between the 3-Months and 12-Months historical volatility in the currency of the final index) and companies are selected based on the ESR.

$$\text{number of companies to select (Volatility screen)} = \text{round down of } (ESR^3 \times N)$$

All selected stocks are ranked in descending order in terms of dividend yield and the highest ranked x stocks are selected for the final index. If two stocks have the same carbon intensity, priority goes to the stock with the highest dividend yield. In case of identical dividend yields, priority goes to the stock with the lowest volatility from the volatility screen. In case of identical volatilities, priority goes to the stock with the lowest average correlation from the correlation step.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December.

Weighting and capping factors: The weighting factors are calculated based on the inverse of their historical volatility. The weights are based on the prices of the Thursday prior to the second

16. STOXX RISK BASED INDICES

Friday of the review month

$$w_i = \frac{\frac{1}{\sigma_i}}{\sum_{j=1}^N \frac{1}{\sigma_j}}$$

w_i weight of component (i)

σ_i Maximum between the historical 12-month and 3-month volatility of component (i), based on prices converted to the index currency

Weighting cap factor = (1,000,000,000 x initial weight / closing price of the stock in EUR), rounded to integers

Additionally components are capped at a maximum weight of 10%.

16.7.2.1. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently to the index.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX calculation guide available on [stoxx.com](https://www.stoxx.com).

16. STOXX RISK BASED INDICES

16.8. EURO STOXX ESG-X & EX NUCLEAR POWER SINGLE FACTOR INDICES

16.8.1. OVERVIEW

The EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices are constructed on the EURO STOXX index with standardized ESG exclusion screens applied for Global Compact Principles, Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco Producers. The objective is to extract the following factor risk premia: Value (Earnings Yield and Value), Quality (Leverage and Profitability) and Medium-term Momentum, while controlling for risk and focusing on tradability. The weighting is determined by a single-factor optimization process.

Universe: EURO STOXX

Weighting scheme: The index is price weighted according to a minimum variance optimization

Base values and dates: 100 on March 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD.
For a complete list please consult the data vendor code sheet on the website³⁶.

Dissemination calendar: STOXX Europe

16.8.2. INDEX REVIEW

Component selection and weighting cap-factors:

From the universe, a set of exclusion criteria are applied which follow the UN Global Compact Compliance Principles, a set of definitions for Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco.

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

³⁶ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

The criteria for involvement are:

- » Internal production or sale of controversial weapons (0% revenue threshold)
- » The ultimate holding company owns >10% of voting rights of an involved company
- » >10% of voting rights of a company is owned by the involved company

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies as having:

- » >25% revenues from thermal coal extraction (including thermal coal mining and exploration)
- » >25% power generation capacity from coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operate coal-fired power plants).

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:

- » >25% revenues from nuclear power production:
 - » Utilities that own/operate nuclear power generators;
 - » Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power.
- » >25% revenues from nuclear power supporting products / services, including:
 - Design and construction of nuclear power plants;
 - Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls;
 - » Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
 - » Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate.
- » >25% revenues from nuclear power distribution, including:
 - The resale or distribution of electricity generated from nuclear power;
 - » This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix.

Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power.

Tobacco:

STOXX will exclude companies that Sustainalytics identifies as tobacco producers (0% revenue threshold).

The EURO STOXX ESG-X & Ex Nuclear Power Single Factor optimization is performed using Axioma's Portfolio Optimization software. This portfolio construction tool includes a Second-Order Cone optimization engine as well as a Branch-and-Bound algorithm for combinatorial problems that has been specialized for financial problems.

Risk predictions are made using Axioma's European, Medium-Horizon, Equity Fundamental Factor Risk Model.

The EURO STOXX ESG-X & Ex Nuclear Power Single Factor index may have less constituents than the original index.

16. STOXX RISK BASED INDICES

Constraint

Individual capping
Effective number of assets
Rebalancing and max. turnover
Country / Industry / Sector exposure

Factor exposures

Value (Earnings Yield and Value)

Quality (Leverage and Profitability)

Medium-Term Momentum

Size

Market Sensitivity

Volatility

Tracking error

Max. number of names

Single Factor Model

4.5% / 8% / 35%
At least 30% of parent benchmark
Quarterly, 7.5%
Within 5% of parent benchmark

For EURO STOXX ESG-X & Ex Nuclear Power Value Index, Earnings Yield and Value are each at least 0.25 cross sectional standard deviations greater than parent benchmark.

For other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, within 0.05 cross sectional standard deviations of the parent benchmark.
For EURO STOXX ESG-X & Ex Nuclear Power Quality Index, Profitability is at least 0.25 cross sectional standard deviations greater than the parent benchmark and Leverage is 0.25 cross sectional standard deviations less than the parent benchmark.

For other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, within 0.05 cross sectional standard deviations of the parent benchmark.
For EURO STOXX ESG-X & Ex Nuclear Power Momentum Index, Medium-Term Momentum is at least 0.25 cross sectional standard deviations greater than parent benchmark.

For other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, within 0.05 cross sectional standard deviations of the parent benchmark.
At least as large as parent benchmark and less than within 0.05 cross sectional standard deviations of the parent benchmark.

Within 0.05 cross sectional standard deviations of the parent benchmark.

Within 0.05 cross sectional standard deviations of the parent benchmark.

None

None

The cross-sectional standard deviation is computed as the standard deviation of factor exposures across assets in the Axioma risk model estimation universe as of the rebalance date (market close on the 2nd Friday of the Review Month).

Individual capping

STOXX aims to build the index such that constituent weights fulfil the 5% / 10% / 40% diversification rule, whereby a component cannot weigh more than 10%, and the weights sum of all those weighing at least 5% cannot exceed 40%. By applying the tighter constraints of 4.5% / 8% / 35%, STOXX aims to reduce the chance of breaching the above mentioned levels and to reduce the gravity of the breaches if and when they occur.

16. STOXX RISK BASED INDICES

Effective number of assets

The effective number of assets of an index is the value, H , defined as:

$$H = \frac{1}{\sum w^2}$$

where w is the weight in each portfolio asset. H gives an accurate measure of the number of assets that affect a portfolio. The number of holdings in an index that is weighted by optimisation should be constrained along those lines as well, as otherwise, the portfolio may hold an overly concentrated portfolio, with holdings with insignificant weights.

The constraint is defined as follows for the Unconstrained index:

$$H_{Multi\ Factor} \geq H_{Base} \cdot 30\%$$

Maximum turnover

The EURO STOXX ESG-X Ex Nuclear Power Single Factor indices have a 7.5% one-way turnover constraint, or 15% two-way turnover. This means up to 7.5% of the portfolio is sold in order to purchase other components (with the aim of having a maximum annual turnover of 60%).

Minimum liquidity requirement

Recognizing that minimum variance portfolios may prefer to hold slightly less liquid stocks, the minimum liquidity requirement ensures that there is no material buildup in illiquid positions in the portfolio.

The weighted average days-to-trade d_s for a given group of holdings S are defined as:

$$d_s = \sum_{i \in S} w_i \cdot \frac{h_i}{MDTV_i}$$

where $h_i = w_i \cdot N$ represents the holdings for stock i and $MDTV_i$ represents its 60-day median daily traded value.

Stocks in the benchmark index are ranked by traded value, and liquidity constraints are imposed on stocks in the two least liquid quintiles. For each of these quintiles Q , the weighted average days to trade of the positions (w_i) therein is required to be no more than 3 times the weighted average days to trade of the same stocks held at corresponding benchmark weights (b_i).

$$\sum_{i \in Q} w_i \cdot \frac{w_i \cdot N}{MDTV_i} \leq \gamma \cdot \sum_{i \in Q} b_i \cdot \frac{b_i \cdot N}{MDTV_i}$$

Each position value has been rewritten in terms of the portfolio notional value N (since the term appears in both sides of the inequality constraint, it cancels out and the actual value is irrelevant). The parameter γ is set to 3.

b_i represents weights in the corresponding capitalization-weighted benchmark index weight.

16. STOXX RISK BASED INDICES

Country, Industry and Sector exposure

The exposure to each country, industry and sector is summed up for the parent benchmark index, and the percentage exposure of the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices have to be within 5% of those values. These constraints make sure the Single Factor indices are closely related in structure to the parent index, except for risk.

Factor exposures

The parent index' exposure to each factor is computed and the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices are constrained to be within a quarter standard deviation of that. The factor exposures for each asset are determined by Axioma's European, Medium-Horizon, Equity Fundamental Factor Risk Model, which gives factor exposures as Z scores.

- **Value (Earnings Yield and Value)**

For EURO STOXX ESG-X & Ex Nuclear Power Value index, the percentage exposure to Value and Earnings Yield are each at least 0.25 standard deviations greater than the parent benchmark.

For the other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, the percentage exposure to Earnings Yield and Value are within 0.05 standard deviations of the parent benchmark.

Value gives a measure of how fairly a stock is priced within the market. It is calculated as book-to-price. Book-to-price is calculated as the ratio of common equity to average 30-calendar-day total issuer market capitalization. The calculation uses the most recently reported annual common equity value

Earnings yield is calculated as a combination of three parts realized to one part forecast earnings-to-price. Realized earnings to price is calculated as the most recently reported annual net income value, divided by the average total issuer market capitalization computed over the last 30 calendar days. Forecast earnings-to-price is calculated as forward-looking earnings estimate, divided by the average total issuer market capitalization computed over the last 30 calendar days. Research has indicated that the combination of these two factors is particularly effective at capturing the risk premium associated with Value.

- **Quality (Leverage and Profitability)**

For EURO STOXX ESG-X & Ex Nuclear Power Quality index, the percentage exposure to Leverage is at least 0.25 standard deviations less than the parent benchmark and the percentage exposure to Profitability is at least 0.25 standard deviations greater than the parent benchmark.

For the other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, the percentage exposure to Leverage and Profitability are within 0.05 standard deviations of the parent benchmark.

Leverage provides a measure of a company's exposure to debt levels. It is calculated as the equal-weighted average of the descriptors, debt-to-assets and debt-to-equity. Both descriptors are standardized prior to summation. Debt-to-assets is calculated as the ratio

16. STOXX RISK BASED INDICES

of long-term and short-term debt to total assets, where total assets are computed as the most recently reported value from annual reports. Debt-to-equity is calculated as the ratio of long-term and short-term debt to common equity, where common equity is computed as the average of the four most recently reported values from annual reports.

Profitability of a company is a measure of the company's profitability, and it is often associated with the quality of the company. Profitability is constructed as a linear combination of the return-on-equity, return-on-assets, cash-flow-to-assets, cash-flow-to-income, gross margin, and sales-to-assets descriptors. Return-on-equity is calculated as the most recently reported annual earnings values, divided by the average of the two most recently reported annual common equity values. Return-on-assets is calculated as the most recently reported annual earnings values, divided by the average of the two most recently reported annual total assets values. Cash-flow-to-assets is calculated as the most recently reported annual operating cash flow divided by the average of the two most recently reported annual total assets values. Cash-flow-to-income is calculated as the average of the two most recently reported annual operating cash flows divided by the average of the two most recently reported annual income values. Gross margin is calculated as net sales (sales minus the cost of goods sold), divided by sales. Both the numerator and the denominator values are computed as the most recently reported annual values. Sales-to-assets is calculated as the most recently reported annual sales values, divided by the most recently reported annual total assets values.

- **Medium-term Momentum**

For EURO STOXX ESG-X & Ex Nuclear Power Momentum index, the percentage exposure to Medium-Term Momentum is at least 0.25 standard deviations greater than the parent benchmark.

For the other EURO STOXX ESG-X & Ex Nuclear Power Single Factor Indices, the percentage exposure to Medium-Term Momentum is within 0.05 standard deviations of the parent benchmark.

Medium-Term Momentum gives a measure of a stock's past performance over the medium term. It is defined as an asset's cumulative return over the last 250 trading days, with the last 20 trading days progressively down weighted (approximately the past year excluding the past month). To improve the stability of exposures, the return histories used to calculate the exposures are weighted by a trapezoidal weighting scheme instead of an equal weighting scheme.

- **Size**

The percentage exposure of the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices is no less than the parent benchmark exposure and less than 0.05 standard deviations greater than the parent benchmark exposure.

Size differentiates large and small stocks and is defined as the natural logarithm of the total issuer market capitalization, averaged over the last month. Issuer market capitalization is computed as the product of the total shares outstanding and closing price, summed over all issues common to the issuer.

16. STOXX RISK BASED INDICES

- **Market Sensitivity**

The percentage exposure of the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices is within 0.05 standard deviations of the parent benchmark exposure.

Market Sensitivity is a measure of an asset's performance relative to that of the overall market, based on historical data. It is calculated by regressing the historical time series of an asset's return against the European market return and an intercept term. Two years of weekly returns are used for the regression. To improve the stability of exposures, the return histories used to calculate the exposures are weighted by a trapezoidal weighting scheme instead of equal weighting.

- **Volatility**

The percentage exposure of the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices is within 0.05 standard deviations of the parent benchmark exposure.

Volatility gives a measure of an asset's relative volatility over time according to its historical behavior. It is calculated as the square-root of the 125-day average of the asset's absolute return divided by the cross-sectional volatility of the market. The Volatility factor is fully orthogonalized to the Market Sensitivity factor. To improve the stability of exposures, the return histories used to calculate the exposures are weighted by a trapezoidal weighting scheme instead of equal weighting.

Tracking error

This constraint is not applicable to the EURO STOXX ESG-X & Ex Nuclear Power Single Factor indices.

Review frequency

The index is reviewed quarterly in line with the parent index (implementation after the close of the third Friday and effective the next dissemination day in March, June, September and December).

The review cut-off date is the last dissemination day of the month preceding the review month.

The review cut-off date for Axioma data is the second Friday of the review month.

Derived indices: Not applicable.

16.8.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

16. STOXX RISK BASED INDICES

16.9. EURO STOXX ESG-X & EX NUCLEAR POWER MINIMUM VARIANCE UNCONSTRAINED INDEX

16.9.1. OVERVIEW

The Objective of the EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained index is to reflect the EURO STOXX index with standardized ESG exclusion screens applied for Global Compact Principles, Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco Producers, with weighting determined by a minimum variance optimization.

Universe: EURO STOXX

Weighting scheme: The index is price weighted according to a minimum variance optimization

Base values and dates: 100 on March 19, 2012

Index types and currencies: Price, net and gross return in EUR and USD.
For a complete list please consult the data vendor code sheet on the website³⁷.

Dissemination calendar: STOXX Europe

16.9.2. INDEX REVIEW

Component selection and weighting cap-factors:

From the universe, a set of exclusion criteria are applied which follow the UN Global Compact Compliance Principles, a set of definitions for Controversial Weapons, Thermal Coal, Nuclear Power and Tobacco.

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

» Internal production or sale of controversial weapons (0% revenue threshold)

³⁷ http://www.STOXX.com/download/indices/vendor_codes.xls

16. STOXX RISK BASED INDICES

- » The ultimate holding company owns >10% of voting rights of an involved company
- » >10% of voting rights of a company is owned by the involved company

Thermal Coal:

STOXX will exclude companies that Sustainalytics identifies as having:

- » >25% revenues from thermal coal extraction (including thermal coal mining and exploration)
- » >25% power generation capacity from coal-fired electricity, heat or steam generation capacity / thermal coal electricity production (including utilities that own/operate coal-fired power plants).

Nuclear Power:

STOXX will exclude companies that Sustainalytics identifies as having:

- » >25% revenues from nuclear power production:
 - » Utilities that own/operate nuclear power generators;
Note: in this category Sustainalytics tracks the percentage of a company's generating capacity that is based on nuclear power.
- » >25% revenues from nuclear power supporting products / services, including:
 - Design and construction of nuclear power plants;
 - Design and manufacture of specialized parts for use in nuclear power plants, including steam generators, control rod drive mechanisms, reactor vessels, cooling systems, containment structures, fuel assemblies, and digital instrumentation and controls;
 - Special services, such as the transport of nuclear power materials, and nuclear plant maintenance;
 - » Uranium mining and exploration, including companies that mine uranium and convert, enrich, and fabricate.
- » >25% revenues from nuclear power distribution, including:
 - The resale or distribution of electricity generated from nuclear power;
 - This applies to distributors, resellers and utilities that distribute nuclear power as a part of their energy mix.
Note: In this category Sustainalytics tracks the percentage of a company's energy mix that is generated from nuclear power.

Tobacco:

STOXX will exclude companies that Sustainalytics identifies as tobacco producers (0% revenue threshold).

The EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance optimization is performed using Axioma's Portfolio Optimization software. This portfolio construction tool includes a Second-Order Cone optimization engine as well as a Branch-and-Bound algorithm for combinatorial problems that has been specialized for financial problems.

Risk predictions are made using Axioma's European, Medium-Horizon, Equity Fundamental Factor Risk Model.

The EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained index aims to obtain a pure minimum variance portfolio, suitable for investors seeking either a superior benchmark or a good strategy index. The Minimum Variance Unconstrained index may have less constituents than the original index.

16. STOXX RISK BASED INDICES

Constraint	Minimum Variance Unconstrained
Individual capping	4.5% / 8% / 35%
Effective number of assets	At least 30% of parent benchmark
Rebalancing and max. turnover	Quarterly, 7.5%
Country/industry exposure	None
Factor exposure	None
Tracking error	None
Max. number of names	None

Individual capping

STOXX aims to build the index such that constituent weights fulfil the 5% / 10% / 40% diversification rule, whereby a component cannot weigh more than 10%, and the weights sum of all those weighing at least 5% cannot exceed 40%. By applying the tighter constraints of 4.5% / 8% / 35%, STOXX aims to reduce the chance of breaching the above mentioned levels and to reduce the gravity of the breaches if and when they occur.

Effective number of assets

The effective number of assets of an index is the value, H , defined as:

$$H = \frac{1}{\sum w^2}$$

where w is the weight in each portfolio asset. H gives an accurate measure of the number of assets that affect a portfolio. The number of holdings in an index that is weighted by optimization should be constrained along those lines as well, as otherwise, the portfolio may hold an overly concentrated portfolio, with holdings with insignificant weights.

The constraint is defined as follows for the Unconstrained index:

$$H_{\text{MinVar}} \geq H_{\text{Base}} \cdot 30\%$$

Maximum turnover

The EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained index has a 7.5% one-way turnover constraint, or 15% two-way turnover. This means up to 7.5% of the portfolio is sold in order to purchase other components (with the aim of having a maximum annual turnover of 60%).

Minimum liquidity requirement

Recognizing that minimum variance portfolios may prefer to hold slightly less liquid stocks, the minimum liquidity requirement ensures that there is no material buildup in illiquid positions in the portfolio.

The weighted average days-to-trade d_s for a given group of holdings S are defined as:

$$d_s = \sum_{i \in S} w_i \cdot \frac{h_i}{MDTV_i}$$

16. STOXX RISK BASED INDICES

where $h_i = w_i \cdot N$ represents the holdings for stock i and $MDTV_i$ represents its 60-day median daily traded value.

Stocks in the benchmark index are ranked by traded value, and liquidity constraints are imposed on stocks in the two least liquid quintiles. For each of these quintiles Q , the weighted average days to trade of the positions (w_i) therein is required to be no more than 10 times the weighted average days to trade of the same stocks held at corresponding benchmark weights (b_i).

$$\sum_{i \in Q} w_i \cdot \frac{w_i \cdot N}{MDTV_i} \leq \gamma \cdot \sum_{i \in Q} b_i \cdot \frac{b_i \cdot N}{MDTV_i}$$

Each position value has been rewritten in terms of the portfolio notional value N (since the term appears in both sides of the inequality constraint, it cancels out and the actual value is irrelevant). The parameter γ is set to 10.

b_i represents weights in the corresponding capitalization-weighted benchmark index weight.

Country, Industry, Sector and Factor exposures

These constraints are not applicable to the EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained index.

Tracking error

This constraint is not applicable to the EURO STOXX ESG-X & Ex Nuclear Power Minimum Variance Unconstrained index.

Review frequency

The index is reviewed quarterly in line with the parent index (implementation after the close of the third Friday and effective the next dissemination day in March, June, September and December).

The review cut-off date is the last dissemination day of the month preceding the review month. The review cut-off date for Axioma data is the second Friday of the review month.

Derived indices: Not applicable.

16.9.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-off stocks are not added permanently.

17. STOXX EXPOSURE INDICES

17.1. STOXX TRUE EXPOSURE INDICES

17.1.1. OVERVIEW

The STOXX True Exposure indices provide investors with exposure to companies that generate a substantial portion of their revenues inside their home region.

Universe: The universe is given by the components of the corresponding benchmark indices (see table below).

Weighting scheme: The indices are weighted by free-float market capitalization multiplied with the corresponding exposure factor. All components are subject to a cap of 5%.

$$w_i = \frac{ffmcap_i \cdot exposure_i}{\sum_{j \text{ in comp.list}} ffmcap_j \cdot exposure_j}$$

Details on how the exposure parameter is calculated can be found in chapter 17.1.4.

Base values and dates: 100 on September 24, 2007.

17.1.2. INDEX REVIEW

Component list and selection:

At the cut-off date based on the universe companies that generate at least the defined minimum share of revenues in the respective “home region” are selected into the index. The revenue information is based on most recent annual reports. If the underlying universe does not include a liquidity criterion a three months average daily traded value filter of EUR 1 million is applied. In addition companies that only report a single revenue number (see chapter 17.1.4, case 4) are excluded.

In order to control the turnover a buffer-rule is applied. Current components are removed from the index only if their exposure falls below the threshold.

Index	Home/Universe	Exposure threshold for additions (%)	Exposure threshold for deletion (%)
EURO STOXX True Exposure	EURO STOXX	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Asia/Pacific	STOXX Asia/Pacific 600	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Australia	STOXX Australia 150	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Canada	STOXX Canada 240	25, 50, 75, 100	20, 40, 65, 90

17. STOXX EXPOSURE INDICES

STOXX True Exposure Developed Markets	STOXX Developed Markets TMI Large + STOXX Developed Markets TMI Mid	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Developed Markets ex Europe	STOXX Developed Markets TMI Large + STOXX Developed Markets TMI Mid excl. Europe	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Developed Markets ex USA	STOXX Developed Markets TMI Large + STOXX Developed Markets TMI Mid excl. USA	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Emerging Markets	STOXX Emerging Markets TMI Large + STOXX Emerging Markets TMI Mid	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Europe	STOXX Europe 600	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure Japan	STOXX Japan 600	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure North America	STOXX North America 600	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure UK	STOXX UK 180	25, 50, 75, 100	20, 40, 65, 90
STOXX True Exposure USA	STOXX USA 900	25, 50, 75, 100	20, 40, 65, 90

Review frequency:

The index composition including the revenue exposure factor is reviewed annually in September based on most recent available data at the cut-off date at the end of August. The needed data points are updated in the third quarter of each calendar year. Hereby, company revenues data related to the most recent fiscal period. For macroeconomic data points, e.g. exports of commodities and services, GDPs and imports, the previous calendar year's figures are taken into account. In case a macroeconomic data point is not available, the most recent data is used for calculations.

In addition, the indices are rebalanced and capped quarterly.

Weighting cap factors: The components are capped based on the exposure factor. In case the weight exceeds 5% an additional capping to 5% is applied.

17.1.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Global TMI are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

17.1.4. EXPOSURE PARAMETER

In a first step the raw revenue break down data per company is standardized (i.e. translated to predefined countries and regions). In order to calculate the percentage of the revenue exposure of a company to a single country which was not necessarily reported in a first step, the regions

17. STOXX EXPOSURE INDICES

need to be split into countries. In a second step a metric is needed that assigns a certain percentage to a country within a region (e.g. how much of revenues which were assigned to Europe come from Germany).

In order to calculate the respective exposures, revenues have to be broken down to the country level. Hereby four cases need to be distinguished:

Case 1: The company already reports revenues broken down to the country level

The share of total revenues TR_i generated in country c is determined by dividing the ratio of the reported country revenues $S_{i,c}$ and total revenues.

$$x_{i,c} = \frac{S_{i,c}}{TR_i}$$

Case 2: Revenues are reported on a regional level (while the reported region does not include the company's home country)

In case revenues are reported solely on a more aggregated (i.e. regional) level, the respective country revenues are determined based on export relations between the reporting company's home country's industry's exports to all countries of the respective region. Hereby, exports comprise exported goods and services.

In order to link exported goods and services to companies, a mapping of goods and services to ICB Supersectors has been conducted. The respective table including the mapping can be found at the end of the document.

The revenues of company i (located in country H and belonging to industry J) that are generated in country c of region R is calculated as:

$$S_{i,c_R} = \frac{EXP_{H,J,c_R}}{\sum_{c_R} EXP_{H,J,c_R}} S_{i,R}$$

where $S_{i,R}$ indicates the revenues of company i generated in region R , and EXP_{H,J,c_R} indicates the exports from company i 's home country's (H) industry J to country c of region R .

In case disaggregated commodity and services data is not available for a given home-country – region combination, the estimation is done based on a country (no longer country and industry specific) approach.

If i denotes the company and H denotes this company's home country, then the revenues S_{i,c_R} generated by company i located in country H that are generated in country c_R of region R is be calculated as follows:

$$S_{i,c_R} = \frac{EXP_{H,c_R}}{\sum_{c_R} EXP_{H,c_R}} S_{i,R}$$

17. STOXX EXPOSURE INDICES

where $S_{i,R}$ indicates the revenues of company i generated in region R . EXP_{H,c_R} indicates the exports from country H to country c_R of region R . $\sum_{c_R}^C EXP_{H,c_R}$ indicates the sum of exports from country H to all countries c in region R .

The share of total revenues TR_i generated in country c_R is then again determined by dividing the ratio of the estimated country revenues $S_{i,c}$ and total revenues.

$$x_{i,c_R} = \frac{S_{i,c_R}}{TR_i}$$

Case 3: Revenues are reported on a regional level (while the reported region includes the company's home country)

In case the reported region does include the reporting company's home country, the portion of revenues that is assumed to be generated in company i 's home country H may first be extracted from the revenues of company i generated in region R .

The home country portion $S_{i,H}$ is calculated as follows:

$$S_{i,H} = \left(1 - \frac{\sum_{c_R}^C EXP_{H,c_R}}{\sum_{c_R}^C EXP_{H,c_R} + GDP_H - EXP_{H,V} + IMP_{H,V}} \right) S_{i,R}$$

where GDP_H indicates the gross domestic product of company i 's home country H , $EXP_{H,V}$ indicated the exports from the home country H of company i to the rest of the world V , and $IMP_{H,V}$ indicated the imports from the rest of the world V to company i 's home country H .

The corresponding share of total revenues being generated locally is determined as follows:

$$x_{i,H} = \frac{S_{i,H}}{TR_i}$$

The portion of revenues $S_{i,K}$ generated in the reported home region K outside of reporting company i 's home country H is then calculated as:

$$S_{i,K} = S_{i,R} - S_{i,H}$$

Finally, the remaining country revenues are again determined as follows:

$$S_{i,c_R} = \frac{EXP_{H,J,c_R}}{\sum_{c_R}^C EXP_{H,J,c_R}} S_{i,K}$$

17. STOXX EXPOSURE INDICES

Again, in case disaggregated commodity and services data is not available for a given home-country – region combination, the estimation is done based on a country (no longer country and industry specific) approach:

$$S_{i,c_R} = \frac{EXP_{H,c_R}}{\sum_{c_R} EXP_{H,c_R}} S_{i,K}.$$

Following the above described procedure, share of total revenues being generated locally is determined as follows:

$$x_{i,c_R} = \frac{S_{i,c_R}}{TR_i}$$

Case 4: Revenues are reported for the entire world

In this case a company only reports a single revenue number for the entire world W , without any further breakdown to a country or lower regional level, a methodology similar to that explained above may be applied to break down revenues to a per country level.

The home portion of total reported revenues is determined by separating the home country portion:

$$S_{i,H} = \left(1 - \frac{EXP_{H,V}}{GDP_H + IMP_{H,V}}\right) S_{i,W}$$

With the corresponding revenue share being:

$$x_{i,H} = \frac{S_{i,H}}{TR_i}$$

where $S_{i,W}$ indicates revenues of company i generated in the world W .

Again, the portion of revenues generated locally may alternatively be determined as the average share of local revenues determined across all those companies NH from country H in the data sample that directly report their local revenues, as was described above.

The portion of revenues generated in the “rest of the world” V is calculated as:

$$S_{i,V} = S_{i,W} - S_{i,H}.$$

Finally, the remaining country revenues may be determined as follows:

$$S_{i,c_V} = \frac{EXP_{H,J,c_V}}{\sum_{c_V} EXP_{H,J,c_V}} S_{i,V}$$

where EXP_{H,J,c_V} indicates the exports from company i 's home country's (H) industry J to country c in the rest of the world V .

17. STOXX EXPOSURE INDICES

Following the procedure outlined in case 2 and 3, in case disaggregated commodity and services data is not available for a given home-country – region combination, the estimation is done based on a country (no longer country and industry specific) approach:

$$S_{i,cv} = \frac{EXP_{H,cv}}{\sum_{cv} EXP_{H,cv}} S_{i,v}$$

With the corresponding revenue shares being:

$$x_{i,cv} = \frac{S_{i,cv}}{TR_i}.$$

17. STOXX EXPOSURE INDICES

17.2. STOXX INTERNATIONAL EXPOSURE INDICES

17.2.1. OVERVIEW

The STOXX International Exposure indices provide investors with exposure to companies that generate a substantial portion of their revenues outside their home region.

Universe: The universe is given by the components of the corresponding benchmark indices the EURO STOXX and STOXX Japan 600 respectively.

Weighting scheme: The indices are weighted by free-float market capitalization multiplied with the corresponding exposure factor. All components are subject to a cap of 5%.

$$w_i = \frac{\text{ffmcap}_i \cdot \text{exposure}_i}{\sum_{j \text{ in comp.list}} \text{ffmcap}_j \cdot \text{exposure}_j}$$

Details on how the exposure parameter is calculated can be found in chapter Exposure Parameter.

Base values and dates: 100 on September 24, 2007.

For a complete list please consult the data vendor code sheet on the website³⁸. Customized solutions can be provided upon request.

Index types and currencies: Price, net return, gross return in EUR, USD, GBP for the Eurozone and JPY for Japanese version

17.2.2. INDEX REVIEW

Component list and selection:

At the cut-off date based on the universe companies that generate at least the defined minimum share of revenues in the respective “target region” are selected into the index. The revenue information is based on most recent annual-reports

In order to control the turnover in the index the selection is subject to a buffer-rule on a component level. Current components are removed from the index only if their exposure falls below the threshold:

Index	Universe	Target Region	Exposure threshold for additions (%)	Exposure threshold for deletion(%)
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³⁸ http://www.STOXX.com/download/indices/vendor_codes.xls

17. STOXX EXPOSURE INDICES

EURO STOXX International Exposure	EURO STOXX	Global ex Eurozone	50	40
STOXX Japan International Exposure	STOXX Japan 600	Global ex Japan	50	40

Review frequency:

The index-composition including the revenue-exposure factor is reviewed annually in September based on most recent available data at the cut-off date at the end of August. The needed data-points are updated in the third quarter of each calendar year. Hereby, company-revenues data relates to the most recent fiscal period. For macroeconomic data points, e.g. exports of commodities and services, GDPs and imports, the previous calendar years' figures are taken into account. In case a macroeconomic data-point is not available, the most recent data is used for the calculations.

The underlying free-float factors and the number of shares are updated in line with the quarterly review-frequency of the respective parent index.

Weighting cap factors: The components are capped based on the exposure factor. In case the weight exceeds 5% an additional capping to 5% is applied.

17.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

17.2.4. EXPOSURE PARAMETER

The raw revenue break-down data per company is provided by Capital IQ and standardized. In order to calculate the percentage of the revenue exposure of a company to a single country which was not necessarily reported in a first step, the regions need to be split into countries. In a second step a metric is needed that assigns a certain percentage to a country within a region (e.g. how much of revenues which were assigned to Europe come from Germany).

In order to calculate the respective exposures, revenues have to be broken down to the country level and hereby four cases need to be distinguished:

Case 1: The company already reports revenues broken down to the country level

The share of total revenues TR_i generated in country c is determined by dividing the ratio of the reported country revenues $S_{i,c}$ and total revenues.

$$x_{i,c} = \frac{S_{i,c}}{TR_i}$$

17. STOXX EXPOSURE INDICES

Case 2: Revenues are reported on a regional level (while the reported region does not include the company's home country)

In case revenues are reported solely on a more aggregated (i.e. regional) level, the respective country revenues are determined based on export relations between the reporting company's home country and all countries of the respective region. Hereby, exports comprise exported goods and services.

If i denotes the company and H denotes this company's home country, then the revenues S_{i,c_R} generated by company i located in country H that are generated in country c_R of region R is be calculated as follows:

$$S_{i,c_R} = \frac{EXP_{H,c_R}}{\sum_{c_R}^C EXP_{H,c_R}} S_{i,R}$$

where $S_{i,R}$ indicates the revenues of company i generated in region R . EXP_{H,c_R} indicates the exports from country H to country c_R of region R . $\sum_{c_R}^C EXP_{H,c_R}$ indicates the sum of exports from country H to all countries c in region R .

The share of total revenues TR_i generated in country c_R is then again determined by dividing the ratio of the estimated country revenues $S_{i,c}$ and total revenues.

$$x_{i,c_R} = \frac{S_{i,c_R}}{TR_i}$$

Case 3: Revenues are reported on a regional level (while the reported region includes the company's home country)

In case the reported region does include the reporting company's home country, the portion of revenues that is assumed to be generated in company i 's home country H may first be extracted from the revenues of company i generated in region R .

The home country portion $S_{i,H}$ is calculated as follows:

$$S_{i,H} = \left(1 - \frac{\sum_{c_R}^C EXP_{H,c_R}}{\sum_{c_R}^C EXP_{H,c_R} + GDP_H - EXP_{H,V} + IMP_{H,V}} \right) S_{i,R}$$

where GDP_H indicates the gross domestic product of company i 's home country H , $EXP_{H,V}$ indicated the exports from the home country H of company i to the rest of the world V , and $IMP_{H,V}$ indicated the imports from the rest of the world V to company i 's home country H .

The corresponding share of total revenues being generated locally is determined as follows:

$$x_{i,H} = \frac{S_{i,H}}{TR_i}$$

17. STOXX EXPOSURE INDICES

The portion of revenues $S_{i,K}$ generated in the reported home region K outside of reporting company i's home country H is then calculated as:

$$S_{i,K} = S_{i,R} - S_{i,H}.$$

Finally, the remaining country revenues are again determined as follows:

$$S_{i,cR} = \frac{EXP_{H,cR}}{\sum_{cR} EXP_{H,cR}} S_{i,K}.$$

Following the above described procedure, share of total revenues being generated locally is determined as follows:

$$x_{i,cR} = \frac{S_{i,cR}}{TR_i}$$

Case 4: Revenues are reported for the entire world

In this case a company only reports a single revenue number for the entire world W, without any further breakdown to a country or lower regional level, a methodology similar to that explained above may be applied to break down revenues to a per country level.

The home portion of total reported revenues is determined by separating the home country portion:

$$S_{i,H} = \left(1 - \frac{EXP_{H,V}}{GDP_H + IMP_{H,V}}\right) S_{i,W}$$

With the corresponding revenue share being:

$$x_{i,H} = \frac{S_{i,H}}{TR_i}$$

where $S_{i,W}$ indicates revenues of company i generated in the world W.

Again, the portion of revenues generated locally may alternatively be determined as the average share of local revenues determined across all those companies NH from country H in the data sample that directly report their local revenues, as was described above.

The portion of revenues generated in the "rest of the world" V is calculated as:

$$S_{i,V} = S_{i,W} - S_{i,H}.$$

Finally, the remaining country revenues may be determined as follows:

$$S_{i,cv} = \frac{EXP_{H,cv}}{\sum_{cv} EXP_{H,cv}} S_{i,V}$$

With the corresponding revenue shares being:

17. STOXX EXPOSURE INDICES

$$x_{i,cv} = \frac{S_{i,cv}}{TR_i}.$$

17. STOXX EXPOSURE INDICES

17.3. STOXX EMERGING MARKETS EXPOSED INDICES

17.3.1. OVERVIEW

The STOXX Emerging Markets Exposed (EM Exposed) indices are a subset of the STOXX Global 1800. Constituents are selected and weighted based on their exposure towards emerging markets.

Universe:

The index universe is based on the STOXX Global 1800 and the following regions as defined in section 4.3 are calculated: Global (developed) and Europe.

Weighting scheme: The index is weighted according to free-float market capitalization.

Base value and dates: 100 on March 19, 2007.

Index types and currencies: EUR, USD as Price, Net, and Gross Return.

17.3.2. INDEX REVIEW

Selection list

- » All companies within the universe are screened for their exposure to the emerging markets (as defined in chapter 4.3)
- » The exposure is calculated using the same formulas as described in chapter 17.1.4
- » Red Chips as well as Chinese companies listed in Hong Kong, but operating in Mainland China are excluded from the universe

Composition list

- » The composition is determined based on the exposure to emerging markets
- » All companies on the selection list with an exposure towards emerging markets higher than 33% are selected

Weighting Scheme:

The weight of each component is calculated using the company's free-float market capitalization and the exposure to emerging markets as following:

$$\text{Weight}_i = \frac{\text{EM Exposure}_i \cdot \text{Free Float Market Capitalization}_i}{\sum_{i=1}^n (\text{EM Exposure}_i \cdot \text{FreeFloatMarketCapitalization}_i)}$$

Review frequency: The index is reviewed annually in September.

Weighting cap factors: The components are capped based on the exposure factor.

17.3.3. ONGOING MAINTENANCE

Replacements: No replacements.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-Offs: Spin-Offs are not added permanently.

18. STOXX THEMATIC INDICES

18.1. STOXX GLOBAL ARTIFICIAL INTELLIGENCE INDEX

18.1.1. OVERVIEW

Derived from the STOXX® Developed & Emerging Markets Total Market Index, the STOXX® Global Artificial Intelligence Index is comprised of companies that are positively exposed to artificial intelligence (AI). AI is the science of creating computing programs that mimic – as closely as possible – the patterns of learning, growth and mastery exhibited in human intelligence. As AI develops, these companies are positioned to take advantage of the long-term trend towards automation, which may have a substantial impact on their revenue in the future.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial positive AI exposure.

Universe: The index universe is defined as all stocks from the STOXX Developed and Emerging Total Market index.

Weighting scheme: The indices are weighted proportionally to the free-float market cap of selected stocks multiplied by the aggregate revenue exposure of each stock to the Sectors listed below.

Base values and dates: 100 on 18 June 2012.

Index types and currencies: Price, net return, gross return in EUR and USD.

18.1.2. INDEX REVIEW

For each STOXX Global Artificial Intelligence Index the companies in the index universe are screened for all of the following criteria (applied in the order in which they are listed):

- » **Minimum liquidity:** 3-month median daily trading value (MDTV) greater than one million EUR
- » **Revenues:** more than 50% of revenues over the past year generated within the aggregate of the RBICS sectors associated with AI (see table below)
- » **Multiple share lines:** in case a company is present with multiple listings in an index, only the most liquid share line will be kept

List of RBICS sectors associated with AI for the purposes of constituent selection:

- Programmable Logic Device Semiconductors (551020351510)
- Video Multimedia Semiconductors (551020401525)
- Other Programmable Logic and ASIC Semiconductors (551020351010)
- Microprocessor (MPU) Semiconductors (551020302510)
- Imaging Laboratories (351515151510)
- Communication and Collaboration Content Sites (552010351015)
- Web Search Sites and Software (552010351520)
- Web Navigation Sites and Software (552010351510)
- Business Intelligence Software (552015151510)
- Machine Vision and Quality Control Manufacturing (401020202010)
- Data Storage Drives and Peripherals (551520201010)
- Data Storage Media (551520201510)
- Multi-Type Data Storage Hardware Makers (551520202510)
- Colocation and Data Center Services (552010201010)

18. STOXX THEMATIC INDICES

- Data Transport Carrier Services (601010301015)
- Disk Storage Systems (551520202010)
- Information Storage Systems (551520202015)
- Other Memory Semiconductors (551020251510)
- Networking Semiconductors (551020401010)
- Flash Memory Semiconductors (551020251010)
- Other Nonvolatile Memory Semiconductors (551020251015)

Review frequency: The index composition is reviewed annually in June. The review cut-off date is the last trading day of the preceding May. The index Weighting Cap Factors are recalculated quarterly in March, June, September and December.

Weighting cap factors:

Index weighting cap factors are recalculated quarterly in March, June, September and December. They are published on the second Friday of each of those months and based on the stocks' prices of the preceding Thursday.

Initial weight calculation:

$$w_i = \frac{ae_i \cdot ff_i}{\sum_j ae_j \cdot ff_j}$$

ae_i is the sum of all exposures of company i to the sectors that are included in the index;

ff_i is the free float market capitalization of company i

Capped weight calculation

The capped weights (cw_i) are derived from the initial weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their current weight in the index.

In the event that 19 or fewer securities are included in the index, the capped weights for all securities will be equal to $1/n$ where n is the number of securities included in the index.

Weight factor calculation

$$wcf_i = \frac{cw_i}{p_i} \times 10,000,000,000$$

rounded to the closest integer and where:

cw_i is the capped weight of company i as described above

p_{s_i} = close price in EUR of company i on the Thursday preceding the second Friday of the review month

wcf_i = weighting cap factor of company i

18.1.3. ONGOING MAINTENANCE

18. STOXX THEMATIC INDICES

Replacements: Stocks deleted from the STOXX Developed & Emerging TMI are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

18. STOXX THEMATIC INDICES

18.2. STOXX GLOBAL DIGITAL SECURITY INDEX

18.2.1. OVERVIEW

The STOXX Global Digital Security Index is comprised of companies from selected countries exposed to a defined theme: Digital Security. This includes firms which are involved in the transmission, safeguarding and/or handling of sensitive data and/or access control of secure locations (e.g. data centers). These companies, or components of their business lines, are positioned to benefit from long-term structural trends driving economic change and which, in the future, may have a substantial impact on their performance.

Universe: The index universe is defined as all stocks from the STOXX Global Total Market index.

Base values and dates: 1000 on 18 June 2012

For a complete list, please consult the data vendor code sheet on the website³⁹. Customized solutions can be provided upon request.

Index types and currencies: Price, net return, gross return in EUR and USD.

Dissemination calendar: STOXX Europe calendar.

18.2.2. INDEX REVIEW

In order to be included in the STOXX Global Digital Security Index, the companies in the index universe are screened for all of the following criteria:

- » **Minimum liquidity:** 3-month median daily traded volume (MDTV) greater than one million EUR
- » **Minimum size:** free-float market capitalization greater than 200 million EUR
- » **Country classification:** stocks classified as belonging to the eligible countries list
- » **Revenues:** more than 50% of revenues generated within the sectors associated with the relevant index theme. Within each individual index, the threshold is lowered to 45% for current components.

The STOXX Global Digital Security Index aims to have a minimum number of 80 constituents at each review. If the screening process above described results to be too restrictive, the revenue filter is progressively lowered in steps of 5% for the index, to a minimum of 30%, until the number of constituents is equal to or greater than 80 (i.e. all stocks which pass the lowered threshold are added to the index).

STOXX uses FactSet Research Systems granular analysis to determine a company's position within the subsectors of its FactSet Revere Business Industry Classification System (FactSet RBICS). FactSet Revere is a sector, supply chain, and geographic risk taxonomy expert.

The eligible countries are defined as follows:

³⁹ http://www.STOXX.com/download/indices/vendor_codes.xls

18. STOXX THEMATIC INDICES

Australia	Japan	Brazil	Peru
Austria	Netherlands	Chile	Philippines
Belgium	New Zealand	China (B, H shares, Red Chips)	Poland
Canada	Norway	Colombia	South Africa
Denmark	Portugal	Czech Republic	Taiwan
Finland	Singapore	Egypt	Thailand
France	Spain	Greece	Turkey
Germany	Sweden	Hungary	
Hong Kong	Switzerland	India	
Ireland	United Kingdom	Indonesia	
Israel	United States	Korea	
Italy		Malaysia	
		Mexico	

The included FactSet RBICS groups are:

Nr.	Group
01	Access Systems Manufacturing
02	Aerospace and Defense IT Services
03	Alarm Systems Manufacturing
04	Carrier Core (Backbone) Equipment
05	Carrier Edge Network Management Equipment
06	Closed Circuit Television (CCTV) Systems/Products
07	Colocation and Data Center Services
08	Customer Premises Network Security Equipment
09	Diversified Electronic Security Equipment
10	Diversified IT Infrastructure Software
11	Document Management Software
12	Electronic Security Identification Equipment
13	Electronic System Security Equipment
14	Enterprise Security Management Software
15	Fixed Microwave Systems Equipment
16	General Analog and Mixed Signal Semiconductors
17	General Carrier Edge (Access) Equipment
18	General Information Technology (IT) Consulting
19	General Infrastructure and Network Consulting
20	General Internet and Online Services
21	General Security Services
22	Government IT Services
23	Healthcare IT Services
24	Inspection and Detection Systems Manufacturing
25	Mixed Building/Physical Security Equipment Makers
26	Monitoring and Control Sensor/Instrument Products
27	Network Administration Software

18. STOXX THEMATIC INDICES

28	Network Security Access Policy Software
29	Network Security Software
30	Other Local Area Networking Equipment
31	Other Network Software
32	Other Wide Area Networking (WAN) Equipment
33	Point-of-Sale (POS) Terminal Manufacturing
34	Security and Identification Semiconductors
35	Security and Management Consulting
36	Security Systems Services
37	Wireless and Wi-Fi Equipment
38	Wireline Equipment

Review frequency: The index is reviewed annually in June. The review cut-off date for the observation of the parent index, liquidity, size and revenues is the last index dissemination day in May. No further capping applies between reviews.

Weighting scheme: The index is equal-weighted. In case a company is present with multiple listings in the index, the weight of that company is shared equally among its different share lines. Weight factors are published on the second Friday of the Review month and based on the stocks' prices of the preceding Thursday.

Weighting cap factors:

$$wf_{s_i} = \frac{\frac{1/N}{n_i}}{p_{s_i}} \cdot 10,000,000,000$$

rounded to the closest integer and where:

N = number of companies in the index

n_i = number of share lines of company i in index

p_{s_i} = close price of share line s_i of company i on the Thursday preceding the second Friday of the review month

wf_{s_i} = weight factor of share line s_i of company i.

18.2.3. ONGOING MAINTENANCE

Replacements

Stocks deleted from the STOXX Global Total Market index are deleted from the STOXX Global Digital Security Index. Any deleted stocks are not replaced.

Fast Exit: Not applicable.

Fast entry: Not applicable.

Spin-Offs: Spin-off companies are not added permanently.

18. STOXX THEMATIC INDICES

18.3. STOXX GLOBAL FINTECH INDEX

18.3.1. OVERVIEW

The STOXX® Global Fintech Index is comprised of companies associated with financial technology (fintech). These businesses use technology to change how financial services are offered to end customers, and/or to boost the competitive edge of traditional financial services providers by improving efficiencies and driving new products and solutions. As the evolution of fintech progresses, and its support from governments and regulators increases, these companies are well-positioned to benefit from the long-term trend towards fintech, which may have a substantial impact on their revenues in the future.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial fintech exposure.

Universe: The STOXX Developed and Emerging Total Market index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is weighted proportionally to the free-float market cap of the selected stocks multiplied by the aggregate revenue exposure of each stock to the sectors listed below.

Base values and dates: 100 on June 18, 2012

Index types and currencies: Price, net return, gross return in EUR, USD and JPY

Dissemination calendar: STOXX Europe calendar

18.3.2. INDEX REVIEW

All companies in the index universe are screened for all of the following criteria (applied in the order in which they are listed):

- » **Minimum liquidity:** 3-month median daily trading value (MDTV) greater than one million EUR
- » **Revenues:** more than 50% of revenues over the past year generated within the aggregate of the RBICS sectors associated with Fintech (see table below)
- » **Multiple share lines:** in case a company is present with multiple listings, only the most liquid share line is considered

List of RBICS sectors associated with Fintech for the purposes of constituent selection:

- Alternative Exchanges and ECNs (302010252510)
 - Automated Teller Machines (ATMs) (303010153010)
 - Automated Teller Machines (ATMs) Hardware Makers (551510201010)
 - Blockchain Technology (303015101040)
 - Commercial Bank and Credit Union Software (303015101010)
 - Commodities Trading Services (302010252010)
 - Credit and Information Bureaus (101015103010)
 - Cryptocurrency Trading/Exchanges (303010153030)
 - Diversified Brokerage Services (302010251010)
 - Diversified Enterprise Resource Planning Software (552015153015)
 - Electronic Payment Processing (303010153015)
 - Finance and Banking Systems Production (551510201015)
-

18. STOXX THEMATIC INDICES

- Finance Information and News Media and Sites (552010101025)
- Financial and Compliance ERP Software (552015153020)
- Institutional Brokerage Services (302010251015)
- Institutional Financial and Research Content Sites (552010301025)
- Insurance Software (303015101015)
- Investment Management/Brokerage Software (303015101020)
- Issuance and Securitization Services (302010251515)
- Market Makers and Specialists (302010251020)
- Mixed Electronic Transaction Processing (303010153020)
- Money Transfer Services (303010153025)
- Multi-Type Financial Data Content Providers/Sites (552010301030)
- Other Finance Industry Software (303015101025)
- Payment Processing Software (303015101030)
- Point-of-Sale (POS) Terminal Manufacturing (551510101510)
- Retail Brokerage Services (302010251035)
- Retail Industry Software (201515301010)
- Securities Exchanges (302010252515)
- Trade Execution Services (302010251040)
- Trading Software (303015101035)

Review frequency: The index composition is reviewed annually in June. The review cut-off date is the last dissemination day of the preceding month.

Weighting cap factors: Index weighting cap factors are calculated quarterly in March, June, September and December. They are published on the second Friday of each of these months, based on the stocks' prices of the preceding Thursday.

Initial weight calculation:

$$w_i = \frac{ae_i \cdot ff_i}{\sum_j ae_j \cdot ff_j}$$

,where:

- ae_i the sum of all exposures of company i to the sectors associated with fintech
- ff_i the free float market capitalization of company i , calculated using close price in EUR on the Thursday preceding the second Friday of the review month

Capped weight calculation

The capped weights (cw_i) derive from the initial weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their current weight in the index.

In the event that 19 or fewer securities are included in the index, the capped weights for all securities will be equal to $1/n$ where n is the number of securities included in the index.

18. STOXX THEMATIC INDICES

Weight factor calculation

$$wcf_i = \frac{cw_i}{p_i} \cdot 10,000,000,000$$

rounded to the closest integer, where:

wcf_i weighting cap factor of company i

cw_i capped weight of company i as described above

p_i close price in EUR of company i on the Thursday preceding the second Friday of the review month

18.3.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Developed & Emerging Total Market Index are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

18. STOXX THEMATIC INDICES

18.4. STOXX GLOBAL ELECTRIC VEHICLES & DRIVING TECHNOLOGY INDEX

18.4.1. OVERVIEW

The STOXX Global Electric Vehicles & Driving Technology Index is comprised of companies from selected countries exposed to a defined theme: electric vehicles and assisted-driving technologies. This includes firms which are involved in the manufacturing of electric and autonomous vehicles, battery suppliers for electric vehicles, and other suppliers in the electric and autonomous vehicle manufacturers' supply chain. These companies, or components of their business lines, are expected to benefit from long-term structural trends driving economic change and which, in the future, may have a substantial impact on their performance.

Universe: The index universe is defined as all stocks from the STOXX Global Total Market index.

Weighting scheme: The index is equal-weighted. In case a company is present with multiple listings in the index, the weight of that company is shared equally among its different share lines. Weight factors are published on the second Friday of the Review month and based on the stocks' prices of the preceding Thursday.

Base values and dates: 1000 on 18 June 2012

For a complete list please consult the data vendor code sheet on the website⁴⁰. Customized solutions can be provided upon request.

Index types and currencies: Price, net return, gross return in EUR and USD

Dissemination calendar: STOXX Europe calendar

18.4.2. INDEX REVIEW

STOXX uses FactSet Research Systems granular analysis to determine a company's position within the subsectors of its FactSet Revere Business Industry Classification System (FactSet RBICS). FactSet Revere is a sector, supply chain, and geographic risk taxonomy expert.

At the review cut-off date an iterative process takes place to derive three groups of stocks that will compose the final index: Electric Vehicle Manufacturers, Electric Vehicle Battery Suppliers and Electric Vehicle Manufacturers' Supply Chain. The following steps are followed in the exact order as noted.

Initially, companies with more than 50% of aggregate revenues generated within the L6 RBICS sectors listed below, are grouped and tagged as "potential Electric Vehicle Manufacturers". The threshold is lowered to 45% for current components. Companies from this pre-selection list will at a later step be screened for eligibility to be included in the final "Electric Vehicle Manufacturers" selection list.

⁴⁰ http://www.STOXX.com/download/indices/vendor_codes.xls

18. STOXX THEMATIC INDICES

Nr. Potential Electric Vehicle Manufacturers

- 1 Alternative Energy Car Manufacturers
- 2 Autonomous Control Transit Production
- 3 Autonomous Control Truck Production
- 4 Commercial and Public Service Vehicles Makers
- 5 Conventional Engine Car Manufacturers
- 6 Diversified Consumer Vehicle Manufacturing
- 7 Heavy Duty Trucks and Trailers Makers
- 8 Multi-Type Car Manufacturers
- 9 Other Commercial Transportation Equipment Makers

Similarly, companies with more than 50% of revenues generated within the RBICS sector “Heavy-Duty and High-End Batteries Manufacturing” are grouped and tagged as “potential Electric Vehicle Battery Suppliers”. The threshold for current components is 45% for this group also.

Consequently, all companies in the “potential Electric Vehicle Battery Suppliers” pre-selection list, are screened for their customers, and if they are supplying companies which fall in the “potential Electric Vehicle Manufacturers” pre-selection list, then these companies are included in the final “Electric Vehicle Battery Suppliers” selection list.

Similarly, companies from the “potential Electric Vehicle Manufacturers” pre-selection list that are customers of companies in the “potential Electric Vehicle Battery Suppliers” pre-selection list, are also included in their corresponding selection list: “Electric Vehicle Manufacturers”.

Moreover, two additional screenings are applied to the remaining companies in the “potential Electric Vehicle Manufacturers” pre-selection list. If a company is highlighted as not being a customer of any “potential Electric Vehicle Battery Suppliers”, then it is only admitted in the “Electric Vehicle Manufacturers” selection list if:

- It has more than 50% of aggregate revenues generated within the following sectors (45% in the case of current components):
 - Alternative Energy Car Manufacturers
 - Autonomous Control Transit Production
 - Autonomous Control Truck Production

, or:

- It has more than 0% of revenues generated within:
 - Heavy-Duty and High-End Batteries Manufacturing

Finally, all companies that are suppliers of “Electric Vehicle Manufacturers”, and have more than 50% of aggregate revenues generated within the sectors below, are included in the “Electric Vehicle Manufacturers’ Supply Chain” selection list. Once again, the threshold stands at 45% for current components.

Nr. Potential Electric Vehicle Manufacturers’ Supply Chain

- 1 Auto Exterior Comfort/Safety/Electronics Products
 - 2 Auto Interior Comfort/Safety/Electronics Products
 - 3 Automotive and Marine Electronics Manufacturing
 - 4 Conventional Flat Panel Display Equipment
 - 5 Diversified Electrical/Power System Manufacturing
-

18. STOXX THEMATIC INDICES

- 6 Diversified Semiconductors
- 7 Electric Motors Manufacturing
- 8 Electrical Systems and Equipment Manufacturing
- 9 Electronic Interconnect Components
- 10 Electronic Materials Manufacturing
- 11 Fuse Passive Electronic Components
- 12 General Analog and Mixed Signal Semiconductors
- 13 Global Positioning Systems (GPS) Manufacturing
- 14 Heavy-Duty and High-End Batteries Manufacturing
- 15 Image Sensor and Image Capture Semiconductors
- 16 Microprocessor (MPU) Semiconductors
- 17 Monitoring and Control Sensor/Instrument Products
- 18 Motion Control and Precision Motors Manufacturing
- 19 Multi-Type Motor Vehicle Parts Manufacturers
- 20 Optoelectronics Electronic Components
- 21 Other Auto Comfort, Safety and Electronic Products
- 22 Other Discrete Semiconductors
- 23 Other Electric Motors and Motion Control Products
- 24 Other Industrial Electrical Product Manufacturing
- 25 Other Module and Subassembly Electronic Components
- 26 Other Optoelectronics Discrete Semiconductors
- 27 Other Passive Electronic Components
- 28 Other Power Analog and Mixed Signal Semiconductors
- 29 Other Processor Semiconductors
- 30 Pan-Powertrain and Chassis Manufacturing
- 31 Peripheral Semiconductors
- 32 Power Module and Subassembly Electronic Components
- 33 Powertrain and Chassis Thermal Management Products
- 34 Powertrain Manufacturing
- 35 Programmable Logic Device Semiconductors
- 36 Specialty Analog and Mixed Signal Semiconductors
- 37 Vehicle Autonomous Control Electronics Makers
- 38 Vehicle Autonomous Control Software
- 39 Video Multimedia Semiconductors
- 40 Other Communications Semiconductors

All companies composing the three selection lists (“Electric Vehicle Manufacturers”, “Electric Vehicle Battery Supplier” and “Electric Vehicle Manufacturers’ Supply Chain”) that fulfil the filters below are selected for inclusion in the index:

» **Minimum liquidity filter:** 3-month median daily traded volume (MDTV) greater than one million EUR

» **Minimum size filter:** free-float market capitalization greater than 200 million EUR

» **Country filter:** stocks classified as belonging to the eligible countries list

The eligible countries are defined as follows:

Australia	Japan	Brazil	Mexico
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18. STOXX THEMATIC INDICES

Austria	Netherlands	Chile	Peru
Belgium	New Zealand	China (B, H shares, RedChips)	Philippines
Canada	Norway	Colombia	Poland
Denmark	Portugal	Czech Republic	South Africa
Finland	Singapore	Egypt	Taiwan
France	Spain	Greece	Thailand
Germany	Sweden	Hungary	Turkey
Hong Kong	Switzerland	India	
Ireland	United Kingdom	Indonesia	
Israel	United States	Korea	
Italy		Malaysia	

The STOXX Global Electric Vehicles & Driving Technology Index aims to have a minimum number of 80 constituents at each review. If the screening process described above results in being too restrictive, the revenue filter for the “potential Electric Vehicle Battery Suppliers” is progressively lowered in steps of 5%, and the selection process is repeated until the number of constituents is equal to or greater than 80. If for a threshold of 5%, the process still returns less than 80 components, then all companies with a revenue exposure above 0% are considered as “potential Electric Vehicle Battery Suppliers”, and the selection process is repeated.

If again the process returns less than 80 companies, the revenue filters for both “potential Electric Vehicle Manufacturers” and “potential Electric Vehicle Manufacturers’ Supply Chain” are then progressively lowered in steps of 5%, in a similar way as explained above, until the minimum number of companies is met.

During the iterative process explained above, the revenue thresholds for current components, are correspondingly lowered for all groups, just so they are 5% lower than the threshold set for non-components.

Review frequency: The index is reviewed annually in June. The review cut-off date for the observation of the parent index, liquidity, size and revenues is the last index dissemination day in May. No further capping applies between reviews.

Weighting cap factors:

$$wf_{s_i} = \frac{\frac{1/N}{n_i}}{p_{s_i}} \cdot 10,000,000,000$$

rounded to the closest integer and where:

18. STOXX THEMATIC INDICES

N = number of companies in the index

n_i = number of share lines of company i in index

p_{s_i} = close price of share line s_i of company i in EUR on the Thursday preceding the second Friday of the review month

wf_{s_i} = weight factor of share line s_i of company i .

18.4.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Global Total Market index are deleted from the STOXX Global Electric Vehicles & Driving Technology Index. Any deleted stocks are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-off companies are not added permanently.

18.5. STOXX GLOBAL SHARING ECONOMY DRIVERS INDEX

18.5.1. OVERVIEW

The STOXX® Global Sharing Economy Drivers Index is comprised of companies that are prominent disruptors in the Sharing Economy trend.

Sharing Economy is an economic model that is based on acquiring, providing or sharing access to goods and services via community based platforms. The shared resources are reusable and required for a temporary use, leading to extensive and productive use of underutilized resources. The index selects companies that are the major drivers in this area.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial Sharing Economy Drivers exposure. Furthermore, STOXX will exclude companies that Sustainalytics considers are non-compliant with the global compact principles or companies that Sustainalytics identifies to be involved with controversial weapons.

Universe: The STOXX Developed and Emerging Total Market index, as observed on the review effective date defines the index universe.

Weighting scheme: The index is weighted proportionally to the free-float market cap of the selected stocks multiplied by the aggregate revenue exposure of each stock to the sectors listed below.

Base values and dates: 100 on June 18, 2012

Index types and currencies: Price, net return, gross return in EUR, USD and JPY

Dissemination calendar: STOXX Europe calendar

18.5.2. INDEX REVIEW

All companies in the index universe are screened for all of the following criteria (applied in the order in which they are listed):

» **Minimum liquidity:** 3-month median daily trading value (MDTV) greater than one million EUR

18. STOXX THEMATIC INDICES

- » **Revenues:** more than 50% of revenues over the past year generated within the aggregate of the RBICS sectors associated with Fintech (see table below)
- » **Multiple share lines:** in case a company is present with multiple listings, only the most liquid share line is considered

List of RBICS sectors associated with Sharing Economy Drivers for the purposes of constituent selection:

- Construction and Mining Machinery Distributors (401520101515)
- Consumer Electronics and Appliance Rental (202515101510)
- Education Information and News Media and Sites (552010101020)
- Educational Support Services (502510101010)
- Food Delivery Services (151010202010)
- Industrial Equipment Leasing Services (303010101515)
- Internet Department Stores (501015103010)
- Media Download and Streaming Digital Content Sites (552010351030)
- Other Automotive Equipment Rental (201510201010)
- Other Leasing Services (303010101525)
- Other Post-Secondary Education (502510101515)
- Parking Facility Services (101020101035)
- Passenger Car Rental (201510201015)
- Real Estate Classifieds and Directories Sites (552010101040)
- Travel Agencies (151010302010)
- Travel Publishers (151010302510)
- Truck, Trailer and Recreational Vehicle Rental (201510201020)

Finally, on the remaining companies, the additional exclusion criteria below are applied:

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

- » Internal production or sale of controversial weapons (0% revenue threshold)
- » The ultimate holding company owns >10% of voting rights of an involved company
- » >10% of voting rights of a company is owned by the involved company

Review frequency: The index composition is reviewed annually in June. The review cut-off date is the last dissemination day of the preceding month.

Weighting cap factors: Index weighting cap factors are calculated quarterly in March, June, September and December. They are published on the second Friday of each of these months, based on the stocks' prices of the preceding Thursday.

18. STOXX THEMATIC INDICES

Initial weight calculation:

$$w_i = \frac{ae_i \cdot ff_i}{\sum_j ae_j \cdot ff_j}$$

,where:

- ae_i the sum of all exposures of company i to the sectors associated with Sharing Economy Drivers
- ff_i the free float market capitalization of company i , calculated using close price in EUR on the Thursday preceding the second Friday of the review month

Capped weight calculation

The capped weights (cw_i) derive from the initial weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their current weight in the index.

In the event that 19 or fewer securities are included in the index, the capped weights for all securities will be equal to $1/n$ where n is the number of securities included in the index.

Weight factor calculation

$$wcf_i = \frac{cw_i}{p_i} \cdot 10,000,000,000$$

rounded to the closest integer, where:

- wcf_i weighting cap factor of company i
- cw_i capped weight of company i as described above
- p_i close price in EUR of company i on the Thursday preceding the second Friday of the review month

18.5.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Developed & Emerging Total Market Index are not replaced.

Fast exit: In case a company which is an index constituent increases its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents, proportionally to their weights.

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently.

18. STOXX THEMATIC INDICES

Mergers and takeovers: The original stock is replaced by the surviving stock.

18. STOXX THEMATIC INDICES

18.6. STOXX GLOBAL REVENUES-BASED THEMATIC INDICES

18.6.1. OVERVIEW

The STOXX Thematic indices are comprised of companies exposed to a defined set of themes: Silver Economy, Smart Cities, Global Millennials, Industry 4.0, Smart Factory, Sharing Economy and Housing Construction. These companies or components of their business lines are positioned to benefit from long-term structural trends driving social, economic and environmental change, which, in the future, will have a substantial impact on their performance.

Revere (RBICS) data allow a detailed breakdown of the revenue sources of the eligible companies, helping this index to select companies with substantial exposure to the respective themes.

Universe: The STOXX Developed and Emerging Total Market index, as observed on the review effective date defines the index universe.

Weighting scheme: The indices are weighted proportionally to the free-float market cap of the selected stocks multiplied by the aggregate revenue exposure of each stock to the sectors listed below, associated with each theme.

Base values and dates: 100 on June 18, 2012

Index types and currencies: Price, net return, gross return in EUR, USD

Dissemination calendar: STOXX Europe calendar

18.6.2. INDEX REVIEW

Selection list: All companies in the index universe are screened for all of the following criteria (applied in the order in which they are listed):

- » **Minimum liquidity:** 3-month median daily trading value (MDTV) greater than 1,000,000 EUR
- » **Revenues:** more than 50% revenues generated within the aggregate of the RBICS sectors associated to the specific theme (see table below).
- » **Multiple share lines:** in case a company is present with multiple listings in a specific thematic cluster, only the most liquid share line will be retained.

List of RBICS sectors associated with respective themes for the purposes of constituent selection:

Nr	Silver Economy	Nr	Industry 4.0
1	Ambulatory and Outpatient Care	1	3D Modeling/Rapid Prototyping Automation Providers
2	Anesthesiology Devices	2	Application Management Consulting
3	Assisted Living	3	Audio Multimedia Semiconductors
4	Autonomous Control Transit Production	4	Automotive Industry Software
5	Burial Casket Manufacturing	5	Blockchain Technology
6	Cardiology Non-Surgical Devices	6	Business Intelligence Software
7	Cardiology Surgical Devices	7	Business Intelligence/Data Warehousing Consulting
8	Cardiovascular System Biopharmaceuticals	8	Carrier Edge Network Management Equipment
9	Casinos and Casino Hotels	9	Colocation and Data Center Services
10	Dental Devices	10	Computer Aided Design (CAD) Software
11	Dietary and Naturopathic Supplements	11	Customer Premises Network Security Equipment
12	Diverse Asset Management and Financial Advisors	12	Data Storage Infrastructure Software
13	Diverse Institutional/High-Net Advisory Finance	13	Disk Storage Systems
14	Diversified Healthcare Business Management	14	Drone Manufacturers

18. STOXX THEMATIC INDICES

15	Diversified Patient Care
16	Ear, Nose and Throat (ENT) Devices
17	Full Service Hotels and Resorts
18	Funeral and Cemetery Services
19	General Analog and Mixed Signal Semiconductors
20	General and Acute Hospitals
21	General Death Care Services
22	Healthcare and Life Sciences Equity REITs
23	Healthcare Consulting
24	Hematological Oncology Biopharmaceuticals
25	Home Healthcare
26	Home Testing Clinical Diagnostics Devices
27	Household Robots
28	IC-Level Electronic Design Software
29	IC-Level Intellectual Property Software Libraries
30	Internet Department Stores
31	Internet Pharmacies and Drug Retail
32	Joint Replacement and Reconstruction Devices
33	Lower Respiratory Biopharmaceuticals
34	Luxury Hotels and Resorts
35	Microprocessor (MPU) Semiconductors
36	Mixed Usage Travel Arrangement and Reservation
37	Mixed-Type Hotels, Motels and Resorts
38	Musculoskeletal System Biopharmaceuticals
39	Neurology Biopharmaceuticals
40	Neurology Devices
41	Nutraceuticals
42	Ocean-Going Cruise Lines
43	Oncology Devices
44	Ophthalmology Biopharmaceuticals
45	Ophthalmology Devices
46	Other Building Materials and Garden Supply Stores
47	Other Communications Semiconductors
48	Other Hospitals
49	Other Long-Term Care Facilities
50	Other Memory Semiconductors
51	Other Oncology Biopharmaceuticals
52	Other Orthopedics Devices
53	Pension Funds
54	Peripheral Semiconductors
55	Pharmacies and Drug Stores
56	Plastic and Reconstructive Surgery Devices
57	Point of Care Testing Kits
58	Power, Control and Mixed Signal Semiconductors
59	Primary Patient Care
60	Private Wealth Managers
61	Programmable Logic Device Semiconductors
62	Retail Advisory Services
63	Skilled Nursing Facility (Nursing Home)
64	Specialized Patient Care
65	Tour Operators
66	Travel Agencies
67	Travel Publishers
68	Type 1 Diabetes Biopharmaceuticals
69	Urology Biopharmaceuticals
70	Urology Devices
71	Vacation Ownership Operators
72	Vehicle Autonomous Control Electronics Makers
73	Vehicle Autonomous Control Software
74	Volatile Memory Semiconductors
75	Wearable Technology

Nr	Sharing Economy
1	Communication and Collaboration Content Sites
2	Construction and Mining Machinery Distributors
3	Consumer Electronics and Appliance Rental
4	Education Information and News Media and Sites
5	Educational Support Services
6	Electronic Payment Processing
7	Food Delivery Services
8	Industrial Equipment Leasing Services
9	Internet Department Stores
10	Mapping/Geographic Information Systems Software
11	Media Download and Streaming Digital Content Sites
12	Other Automotive Equipment Rental

15	Drone Parts Manufacturers
16	Enterprise Middleware Software
17	Enterprise Security Management Software
18	Flash Memory Semiconductors
19	General Analog and Mixed Signal Semiconductors
20	General Enterprise Management Software
21	General Factory Automation Makers
22	General Information Technology (IT) Consulting
23	General Infrastructure and Network Consulting
24	Image Sensor and Image Capture Semiconductors
25	Industrial Robots and Robotic Assembly Line Makers
26	Information Storage Systems
27	Lasers and Optical Instrument Manufacturing
28	Machine Vision and Quality Control Manufacturing
29	Manufacturing Industry Software
30	Microprocessor (MPU) Semiconductors
31	Monitoring and Control Sensor/Instrument Products
32	Multi-Industry-Specific Factory Machinery Makers
33	Multi-Tactic Enterprise Solutions Consulting
34	Network Administration Software
35	Network Design and Implementation Consulting
36	Network Security Software
37	Operating Systems Software
38	Other Automation Support Product Manufacturing
39	Other Communications Semiconductors
40	Other Design and Engineering Software
41	Other Memory Semiconductors
42	Other Network Software
43	Other Nonvolatile Memory Semiconductors
44	Other Processor Semiconductors
45	Other Test and Measurement Equipment
46	Peripheral Semiconductors
47	Power, Control and Mixed Signal Semiconductors
48	Programmable Logic Device Semiconductors
49	RF Analog and Mixed Signal Semiconductors
50	Security and Management Consulting
51	Smart Grid Technology and Smart Meter Products
52	Software Design and Engineering Consulting
53	Solid Waste Recycling Equipment Manufacturing
54	Specialty Analog and Mixed Signal Semiconductors
55	Supply Chain ERP Software
56	Virtual Reality Design and Engineering Software
57	Virtual Reality Equipment
58	Volatile Memory Semiconductors
59	Wireline Equipment

Nr	Millennials
1	Activewear and Outerwear Apparel Production
2	Athletic Footwear Production
3	Budget Hotels and Motels
4	Career Classifieds and Directories Media and Sites
5	City Guides Content Providers and Sites
6	Communication and Collaboration Content Sites
7	Console Games Software
8	Dietary and Naturopathic Supplements
9	Education Information and News Media and Sites
10	Electronic Gaming/Entertainment Electronics Makers
11	Events, Tickets and Mixed-Type Recreation
12	Fitness and Exercise Equipment
13	Fitness and Recreational Sports Centers
14	Food Delivery Services
15	General Entertainment Content Providers and Sites
16	Handheld and Smart Phone Games Software
17	Internet Accessories Retail
18	Internet Apparel Retail
19	Internet Department Stores
20	Internet Discount Stores
21	Internet Electronics Retail
22	Internet Entertainment Retail
23	Internet Footwear Retail
24	Internet Off-Price Retail
25	Internet Warehouse / Superstore Retail
26	Media Download and Streaming Digital Content Sites
27	Mixed Apparel and Footwear Production
28	Mixed Usage Travel Arrangement and Reservation

18. STOXX THEMATIC INDICES

- 13 Other Leasing Services
- 14 Other Post-Secondary Education
- 15 Parking Facility Services
- 16 Passenger Car Rental
- 17 Payment Processing Software
- 18 Real Estate Classifieds and Directories Sites
- 19 Travel Agencies
- 20 Travel Publishers
- 21 Truck, Trailer and Recreational Vehicle Rental

Nr Smart Factory

- 1 3D Modeling/Rapid Prototyping Automation Providers
- 2 Computer Aided Design (CAD) Software
- 3 Flash Memory Semiconductors
- 4 General Analog and Mixed Signal Semiconductors
- 5 General Factory Automation Makers
- 6 Industrial Robots and Robotic Assembly Line Makers
- 7 Lasers and Optical Instrument Manufacturing
- 8 Machine Vision and Quality Control Manufacturing
- 9 Manufacturing Industry Software
- 10 Microprocessor (MPU) Semiconductors
- 11 Multi-Industry-Specific Factory Machinery Makers
- 12 Other Automation Support Product Manufacturing
- 13 Other Communications Semiconductors
- 14 Other Memory Semiconductors
- 15 Other Nonvolatile Memory Semiconductors
- 16 Other Processor Semiconductors
- 17 Peripheral Semiconductors
- 18 Power, Control and Mixed Signal Semiconductors
- 19 Programmable Logic Device Semiconductors
- 20 RF Analog and Mixed Signal Semiconductors
- 21 Solid Waste Recycling Equipment Manufacturing
- 22 Specialty Analog and Mixed Signal Semiconductors
- 23 Supply Chain ERP Software
- 24 Volatile Memory Semiconductors

Nr Smart Cities

- 1 Access Systems Manufacturing
- 2 Alarm Systems Manufacturing
- 3 Alternative Energy Car Manufacturers
- 4 Autonomous Control Transit Production
- 5 Autonomous Control Truck Production
- 6 Closed Circuit Television (CCTV) Systems/Products
- 7 Customer Premises Network Security Equipment
- 8 Diversified Electrical/Power System Manufacturing
- 9 Diversified Semiconductor Manufacturing Services
- 10 Diversified Technology Hardware
- 11 Drone Manufacturers
- 12 Drone Parts Manufacturers
- 13 Education Information and News Media and Sites
- 14 Educational Support Services
- 15 Electronic Security Identification Equipment
- 16 Electronic System Security Equipment
- 17 Energy Efficient Lighting and LED Manufacturing
- 18 Enterprise Middleware Software
- 19 Enterprise Security Management Software
- 20 Flash Memory Semiconductors
- 21 Fuel Cell Equipment and Technology Providers
- 22 General Communications Equipment
- 23 Healthcare Management Software
- 24 Healthcare Operations Support Software
- 25 Household Robots
- 26 Microprocessor (MPU) Semiconductors
- 27 Mixed Renewable Energy Generation Manufacturing
- 28 Network Security Software
- 29 Other Memory Semiconductors
- 30 Other Nonvolatile Memory Semiconductors
- 31 Other Optoelectronics Discrete Semiconductors
- 32 Other Post-Secondary Education
- 33 Other Wireless Equipment
- 34 Photovoltaic and Solar Cells and Systems Providers
- 35 Power, Control and Mixed Signal Semiconductors
- 36 Programmable Logic Device Semiconductors
- 37 RF Analog and Mixed Signal Semiconductors
- 38 RFID Asset Tracking Equipment Manufacturing

- 29 Mobile Platform Applications Software
- 30 Nutraceuticals
- 31 Nutritional Supplement OEMs
- 32 Off-Price Retail Stores
- 33 Online Game Websites and Software
- 34 Other Automotive Equipment Rental
- 35 Other Classifieds and Directories Media and Sites
- 36 Other Games Software
- 37 Other Sporting and Athletic Goods
- 38 Passenger Car Rental
- 39 Performing Arts and Exhibitions
- 40 Smart Phone Manufacturing
- 41 Sporting Goods Stores
- 42 Team, Individual and Other Sports Manufacturing
- 43 Travel Agencies
- 44 Travel Publishers
- 45 Virtual Reality Equipment
- 46 Wearable Technology
- 47 Web Search Sites and Software
- 48 Winter Sports

Nr Housing Construction

- 1 Access Systems Manufacturing
- 2 Alarm Systems Manufacturing
- 3 Building Construction
- 4 Building Maintenance and Engineering Services
- 5 Cabinets and Countertops Manufacturing
- 6 Cement Manufacturing
- 7 Closed Circuit Television (CCTV) Systems/Products
- 8 Concrete Blocks, Bricks and Aggregates Makers
- 9 Decorative Component Manufacturing
- 10 Electrical Systems and Equipment Manufacturing
- 11 Flooring Manufacturing
- 12 General Analog and Mixed Signal Semiconductors
- 13 General Architectural Component Manufacturing
- 14 General Building Materials Retail
- 15 General Coatings and Paints Makers
- 16 General Construction Materials Manufacturing
- 17 Hardware, Plumbing and HVAC Supplies
- 18 Heating, Ventilation and Air Conditioning Products
- 19 Home Builders
- 20 IC-Level Electronic Design Software
- 21 IC-Level Intellectual Property Software Libraries
- 22 Industrial and Engineering Hand Tool Manufacturing
- 23 Insulation Manufacturing
- 24 Integrated Steel Mills Mixed Production Makers
- 25 Interior and Exterior Covering Materials Stores
- 26 Lime and Gypsum Products Manufacturing
- 27 Locks and Deadbolts Manufacturing
- 28 Manufactured Building Makers
- 29 Microprocessor (MPU) Semiconductors
- 30 Minimills Manufacturing Flats
- 31 Mining and Excavation Equipment Manufacturing
- 32 Mixed Architecture/Infrastructure Component Makers
- 33 Mixed Building/Physical Security Equipment Makers
- 34 Mixed Heavy Building Materials/Aggregates Makers
- 35 Mixed Specialty and Commodity Chemical Makers
- 36 Multi-Product Adhesive, Sealant and Paint Makers
- 37 Oriented Strand Board (OSB) Manufacturing
- 38 Other Communications Semiconductors
- 39 Other Construction Wood Products Makers
- 40 Other Memory Semiconductors
- 41 Other Metal Processing and Recycling Providers
- 42 Paints Manufacturing
- 43 Peripheral Semiconductors
- 44 Photovoltaic and Solar Cells and Systems Providers
- 45 Pipes and Pipe Fittings Manufacturing
- 46 Plumbing Fixtures and Trim Manufacturing
- 47 Power, Control and Mixed Signal Semiconductors
- 48 Programmable Logic Device Semiconductors
- 49 Public Infrastructure Components Manufacturing
- 50 Ready-Mix Concrete Makers
- 51 Residential Specialty Engineering Contractors
- 52 Structural Support Component Manufacturing
- 53 Tools and Outdoor Care Building Hand Tool Products

18. STOXX THEMATIC INDICES

39	Security and Management Consulting	54	Utility Meter Manufacturing
40	Server Computer Systems	55	Volatile Memory Semiconductors
41	Smart Grid Technology and Smart Meter Products	56	Windows and Doors Manufacturing
42	Specialty Analog and Mixed Signal Semiconductors		
43	Test and Measurement Communications Equipment		
44	Utility Meter Manufacturing		
45	Vehicle Autonomous Control Electronics Makers		
46	Vehicle Autonomous Control Software		

Finally, on the remaining companies, the additional exclusion criteria below are applied:

Global Compact Compliance:

STOXX will exclude the companies that Sustainalytics considers are non-compliant with the global compact principles. Sustainalytics has defined five ESG-risk levels which range from 1 (low risk) to 5 (very high risk). Level 5 companies are considered non-compliant with the global compact principles.

Controversial Weapons:

STOXX will exclude the companies that Sustainalytics identifies to be involved with controversial weapons.

The following weapons are considered controversial: anti-personnel mines, biological and chemical weapons, cluster weapons, depleted uranium, nuclear weapons and white phosphorus weapons.

The criteria for involvement are:

- Internal production or sale of controversial weapons
- The ultimate holding company owns >10% of voting rights of an involved company
- >10% of voting rights of a company is owned by the involved company

Review frequency: The index composition is reviewed annually in June. The review cut-off date is the last dissemination day of the preceding month.

Weighting cap factors: Index weighting cap factors are calculated quarterly in March, June, September and December. They are published on the second Friday of each of these months, based on the stocks' prices of the preceding Thursday.

Initial weight calculation:

$$w_i = \frac{ae_i \cdot ff_i}{\sum_j ae_j \cdot ff_j}$$

, where:

- ae_i the sum of all exposures of company i to the sectors associated with respective theme
- ff_i the free float market capitalization of company i , calculated using close price in EUR on the Thursday preceding the second Friday of the review month

Capped weight calculation

The capped weights (cw_i) derive from the initial weights via an iterative process that seeks to maintain the following conditions:

- The sum of all weights above 4.5% should not exceed 35%
- No single weight should exceed 8%

To that end, any excess weight is redistributed from a company to the rest of the components of the index that are not already subject to capping under the above rules, proportionally to their current weight in the index.

18. STOXX THEMATIC INDICES

In the event that 19 or fewer securities are included in the index, the capped weights for all securities will be equal to $1/n$ where n is the number of securities included in the index.

Weight factor calculation

$$wcf_i = \frac{cw_i}{p_i} \cdot 10,000,000,000$$

rounded to the closest integer, where:

wcf_i weighting cap factor of company i

cw_i capped weight of company i as described above

p_i close price in EUR of company i on the Thursday preceding the second Friday of the review month

18.6.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Developed & Emerging Total Market Index are not replaced.

Fast exit: In case a company which is an index constituent increases in its ESG-risk level to level 5, the respective constituent will be deleted from the index. The deletion will take place two dissemination days after the announcement, i.e. at the open of the 3rd dissemination day. The constituent's weight will be distributed among the remaining constituents, proportionally to their weights.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

19. STOXX AI THEMATIC INDICES

19.1. STOXX AI GLOBAL ARTIFICIAL INTELLIGENCE INDICES

19.1.1. OVERVIEW

Artificial intelligence (AI) is the science of creating computer programs and machines that exhibit human-like intelligence and cognitive skills. The STOXX® AI Global Artificial Intelligence Indices are comprised of companies from a wide range of industries that invest heavily in the development of new AI technologies. These companies are therefore considered to be well-positioned to benefit from the increased adoption of AI technologies.

STOXX teamed up with an award-winning AI company, Yewno, whose proprietary AI algorithms, which include machine learning, computational linguistics and knowledge graph techniques, are used to identify the index constituents from the universe of the STOXX® Developed and Emerging Markets Total Market Index. The key criterion used in the selection process is patent filings related to AI IP, thereby identifying AI innovators as well as AI adopters.

Index name	Symbol	Bloomberg ticker	Reuters RIC
STOXX AI Global Artificial Intelligence EUR (Price)	STXAAIP	STXAAIP Index	.STXAAIP
STOXX AI Global Artificial Intelligence EUR (Net Return)	STXAAIR		.STXAAIR
STOXX AI Global Artificial Intelligence EUR (Gross Return)	STXAAIG R	STXAAIGR Index	.STXAAI GR
STOXX AI Global Artificial Intelligence USD (Price)	STXAAIL	STXAAIL Index	.STXAAIL
STOXX AI Global Artificial Intelligence USD (Net Return)	STXAAIV		.STXAAIV
STOXX AI Global Artificial Intelligence USD (Gross Return)	STXAAIG V	STXAAIGV Index	.STXAAI GV
STOXX AI Global Artificial Intelligence ADTV5 EUR (Price)	STXAA5P		.STXAAIP
STOXX AI Global Artificial Intelligence ADTV5 EUR (Net Return)	STXAA5R	STXAAIR Index	.STXAAIR
STOXX AI Global Artificial Intelligence ADTV5 EUR (Gross Return)	STXAA5G R		.STXAAI GR
STOXX AI Global Artificial Intelligence ADTV5 USD (Price)	STXAA5L		.STXAA5 L
STOXX AI Global Artificial Intelligence ADTV5 USD (Net Return)	STXAA5V		.STXAA5 V
STOXX AI Global Artificial Intelligence ADTV5 USD (Gross Return)	STXAA5G V		.STXAA5 GV

Universe: The index universe is defined as all stocks from the STOXX Developed and Emerging Total Market Index as of the last calculation day of the month two months preceding the review month. Any stocks that are removed from the index between that day and the time of index review will not be considered for inclusion in the index.

19. STOXX AI THEMATIC INDICES

Weighting scheme: The indices are equal-weighted. In case a company is present with multiple listings in an index, only the most liquid share line will be kept. Weight factors are published on the second Friday of the Review month and based on the stocks' prices of the preceding Thursday.

Base values and dates: 100 on 18 March 2013

Index types and currencies: Price, Net Return, Gross Return in EUR and USD

19.1.2. INDEX REVIEW

For the purposes of the STOXX AI Global Artificial Intelligence Indices, Yewno Inc. calculates two metrics relevant to a company's involvement in the field of Artificial Intelligence:

AI Intellectual Property Exposure is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of patents awarded to that company over the same period. It provides an indication of the importance AI research and applications to the overall activities of each company.

AI Contribution is defined as the ratio of the number of AI patents awarded to a company over the most recent 3-year period to the total number of AI patents awarded to all companies in the indices' Universe. It provides an indication of the importance of each company's AI research and applications to the overall AI-related activities of other companies in the index Universe.

The companies in the STOXX AI Global Artificial Intelligence indices' universe are screened for all of the following criteria (in the order in which they are listed below):

- » **Exposure:** Companies which fall above the 25th percentile in both measures mentioned above (AI Intellectual Property Exposure and AI Contribution) will be included in the indices. For the purposes of calculating the 25th percentile of each measure, companies with a value of zero in that measure will be ignored.
- » **Minimum liquidity:** 3-month average daily trading value (ADTV) greater than 1,000,000 EUR (5,000,000 EUR for the STOXX AI Global Artificial Intelligence ADTV5 Index). This filter will be applied after all relevant calculations for the exposure filter above are complete.
- » **Multiple share lines:** in case a company is present with multiple listings in an index, only the most liquid share line will be kept

Review frequency: Each index is reviewed quarterly in March, June, September and December. No further capping applies between reviews.

Weighting cap factors:

$$wf_i = \frac{1/N}{p_i} \cdot 10,000,000,000$$

rounded to the closest integer and where:

N = number of companies in the index

p_i = close price in EUR of company i on the Thursday preceding the second Friday of the review month

wf_i = weight factor of company i.

19. STOXX AI THEMATIC INDICES

19.1.3. ONGOING MAINTENANCE

Replacements: Stocks deleted from the STOXX Developed & Emerging TMI are not replaced.

Fast exit: Not applicable

Fast entry: Not applicable

Spin-offs: Spin-offs are not added permanently.

Mergers and takeovers: The original stock is replaced by the surviving stock.

20. STOXX PREMIA INDICES

20.1. EURO STOXX SINGLE PREMIUM INDICES

20.1.1. OVERVIEW

The EURO STOXX Single Premium Indices are based on the EURO STOXX Index and aim to extract factor risk premia on equities while controlling risks and focusing on tradability. The index strategy was developed based on research by Finreon, a provider of innovative asset management solutions and spin-off from the University of St. Gallen. These indices differ from each other by the risk premia they exploit, which consist of the following: Value, Size, Momentum, Residual Momentum, Reversal, Low Risk and Quality.

Universe: The index universe is defined by the parent index, the EURO STOXX Index

Weighting scheme: The indices are price-weighted according to the principle of risk parity

Base values and dates: The following base values and dates apply: 100 on Dec 19, 2003

Index types and currencies: Price, Net Return and Gross Return in EUR, USD and CHF

Dissemination calendar: STOXX Europe calendar

For a complete list please consult the data vendor code sheet on the website⁴¹. Customized solutions can be provided upon request.

20.1.2. INDEX REVIEW

The data cut-off date for the underlying data is the Friday 4 weeks prior to the review implementation date.

Selection list:

Components are selected from the EURO STOXX index by filtering on various indicators that have been normalized and combined, reflecting the relevant factor premium in each case. Only components with a price history of at least 156 weeks are eligible to be included.

Normalization and Combination

Each factor consists of several indicators. These indicators are calculated from fundamental data or price data. The indicators are standardized as follows:

$$z_i = \frac{S_i - S_{mean}}{\sigma(S)}$$

where

S_i = indicator value for stock i^{th}

S_{mean} = average indicator value of the stocks in the relevant ICB industry or universe

$\sigma(S)$ = standard deviation of the indicator across stocks in the relevant ICB industry or universe

⁴¹ http://www.STOXX.com/download/indices/vendor_codes.xls

20. STOXX PREMIA INDICES

All indicators in a Factor Score must be available for a stock to be included in a single premium index. In order to reduce sensitivity to statistical outliers, values for each indicator that lie below the 5th percentile or above the 95th percentile for that indicator are adjusted to be equivalent to the 5th or 95th percentile respectively before standardisation.

The standardized scores are combined to arrive at an aggregated factor score as follows:

$$Factor\ Score_i^j = \sum_{k=1}^m w^k z_i^k$$

Where

m = number of indicators in Factor Score j

z_i^k = standardized indicator k for stock i

w^k = weighting for indicator k with all the weightings summing up to 1, $\sum_{k=1}^m w^k = 1$

The target number of components in the relevant EURO STOXX Single Premium Index is set to 1/3 (rounded up to the closest integer) of the eligible stocks. The aggregated Factor Scores are ranked in descending order for value, momentum, residual momentum and quality and in ascending order for size, reversal and low risk indicators. A list composed of the top ranking stocks up to the target number of components and an additional selection buffer of 10% (i.e. target number multiplied by 10% rounded down to the closest integer) is compiled. In order to reduce turnover, current index components that are in this list are selected. Then, as many stocks as necessary to reach the target number of components are selected among the remaining top-ranked stocks in the list.

Factors Calculation

1. VALUE

The underlying value indicators consist of the following:

1. Book Value per Share to Price (B/P)
2. Earnings per Share to Price (E/P)
3. Dividend per Share over last 12 months to Price (D/P)

The indicators are standardized by ICB industry if there are at least 10 eligible stocks within the industry, otherwise the indicators for components in that ICB industry are standardized across all eligible stocks with respect to that factor, and the aggregated Value Score is:

$$Factor\ Score_i^{VALUE} = \frac{1}{2} z_i^{B/P} + \frac{1}{4} z_i^{E/P} + \frac{1}{4} z_i^{D/P}$$

2. SIZE

The underlying size indicators consist of the following:

1. The natural logarithm of the free-float market capitalization (MCAP)
 2. The natural logarithm of the company's Total Assets (TA)
-

20. STOXX PREMIA INDICES

The indicators are standardized by ICB industry if there are at least 10 stocks within the industry, otherwise the indicators for components in that ICB Industry are standardized across all eligible stocks with respect to that factor, and the aggregated Size Score is:

$$Factor\ Score_i^{SIZE} = \frac{1}{2} z_i^{MCAP} + \frac{1}{2} z_i^{TA}$$

3. MOMENTUM

The underlying momentum indicators consist of the following:

- The 52 minus 4 weeks gross return (52-4TR)
- The 26 minus 4 weeks gross return (26-4TR)

The indicators are standardized across all eligible stocks with respect to that factor the aggregated Momentum Score is:

$$Factor\ Score_i^{MOMENTUM} = \frac{1}{2} z_i^{52-4TR} + \frac{1}{2} z_i^{26-4TR}$$

4. RESIDUAL MOMENTUM

The underlying residual momentum indicators consist of the following:

- The 52 minus 4 weeks standardised residual return (52-4RR), based on CAPM regression over weekly data covering 156 weeks of the component against the reference market
- The 26 minus 4 weeks standardised residual return (26-4RR), based on CAPM regression over weekly data covering 156 weeks of the component against the reference market

The risk free rate used is the Germany 3m deposit rate. The indicators are standardized across all eligible stocks with respect to that factor and the aggregated Residual Momentum Score is:

$$Factor\ Score_i^{RESIDUAL_MOMENTUM} = \frac{1}{2} z_i^{52-4RR} + \frac{1}{2} z_i^{26-4RR}$$

5. REVERSAL

The underlying reversal indicators consist of the following:

- The 260 minus 52 weeks gross return (260-52TR)
- The 156 minus 52 weeks gross return (156-52TR)

The indicators are standardized across all eligible stocks with respect to that factor and the aggregated Reversal Score is:

$$Factor\ Score_i^{REVERSAL} = \frac{1}{2} z_i^{260-52TR} + \frac{1}{2} z_i^{156-52TR}$$

6. LOW RISK

The underlying low risk indicators consist of the following:

20. STOXX PREMIA INDICES

- a) Volatility calculated on the basis of weekly gross return data over the previous 156 weeks (VOL)
- b) 90% value-at-risk for the weekly gross returns over the previous 156 weeks (VaR). The loss is represented as a positive number.
- c) Correlation coefficient between the weekly gross returns of the component against the weekly gross return of the EURO STOXX Index over the previous 156 weeks (CORR)

The indicators are standardized across all eligible stocks with respect to that factor and the aggregated Low Risk Score is:

$$Factor\ Score_i^{LOW_RISK} = \frac{1}{3}z_i^{VOL} + \frac{1}{3}z_i^{VaR} + \frac{1}{3}z_i^{CORR}$$

7. QUALITY

The underlying quality indicators consist of the following:

- a) Gross income divided by Total Asset (ROA)
- b) Earnings per share divided by revenue per share (NetMargin)

The indicators are standardized by ICB Industry if there are at least 10 eligible stocks within the industry, otherwise the indicators for components in that ICB Industry are standardized across all eligible stocks with respect to that factor, and the aggregated Quality Score is:

$$Factor\ Score_i^{QUALITY} = \frac{1}{2}z_i^{ROA} + \frac{1}{2}z_i^{NetMargin}$$

Optimization

The objective of the optimization is to have a balanced risk contribution of each of the components of the index to overall volatility of the respective EURO STOXX Single Premium Index. The relative contribution to risk is defined as the risk contribution divided by the volatility. The risk contribution of each component is equal to the product of its weight by its marginal risk contribution. The marginal risk contribution corresponds to the change in volatility of the EURO STOXX Single Premium Index induced by a small change in the weight of the component.

The relative contribution to risk (RC) of the i^{th} component is given by the following formula:

$$RC_i = w_i \frac{\left(\frac{\partial \sigma(w)}{\partial w_i} \right)}{\sigma(w)} = w_i \frac{(\sum w)_i}{w' \sum w}$$

$\sigma(w)$ = Volatility of the EURO STOXX Single Premium Index calculated using weekly gross return times series over a period of 156 weeks

w_i = Weight of component i in the EURO STOXX Single Premium Index

w = Vector composed of all the weights w_i

20. STOXX PREMIA INDICES

Σ = Covariance matrix⁴² of the components in the EURO STOXX Single Premium Index calculated using weekly gross return times series over a period of 156 weeks

The following optimization is performed to arrive at the weights in accordance with the principles of risk parity:

$$w_t^* = \underset{w}{\operatorname{argmin}} \left(\sum_i^n \left(RC_i - \frac{1}{n} \right)^2 + (w_t - w_{t-1})' * (w_t - w_{t-1}) + \sum_j 100 * \min \left(0, \text{upper limit constraint weight } j - \sum_i w_{i,t}^j \right)^2 \right)$$

where n is the total number of components in the EURO STOXX Single Premium Index.

The objective function consists of the following 3 terms:

- $\sum_i^n \left(RC_i - \frac{1}{n} \right)^2$ is the equal risk contribution term
- $(w_t - w_{t-1})' * (w_t - w_{t-1})$ is the turnover control term where w_t denotes the weight vector of the new components in the current rebalancing period which the objective function is minimizing for and w_{t-1} denotes the weight vector on the cut-off date of the components from the previous rebalancing period
- The third term is the penalty on the upper limit ICB industry weight and upper limit country weight for the set j of all ICB industries and countries. The upper limit ICB industry weight is defined as $\min(1.5 \times \text{EURO STOXX ICB industry weight}, \text{EURO STOXX industry weight} + 5\%)$ and the upper limit country weight is defined as $\min(1.5 \times \text{EURO STOXX country weight}, \text{corresponding EURO STOXX country weight} + 5\%)$.

This optimization has the following constraints:

- Each component weight, w_i , should be non-negative and the sum of all the component weights should be equal to 100%
- Maximum component weight, $w_i^{\text{MAX}} = \min(4\%, 20 \times w_i^{\text{REF}})$. The reference weight, w_i^{REF} , is defined as $0.5 * w_i^{\text{MktCap}} + 0.5 * w_i^{\text{ADTV}}$ normalized to sum to 100%.

$$w_i^{\text{MktCap}} = \frac{\text{Market Cap}_i}{\sum_{j=1}^n \text{Market Cap}_j}$$

$$w_i^{\text{ADTV}} = \frac{\text{ADTV}_i}{\sum_{j=1}^n \text{ADTV}_j}$$

where

Market Cap_i is the 52-week average of the weekly closing free-float market capitalization of component i,

ADTV_i is the 52-week average of the 5-day average traded volume of component i,

⁴² The covariance matrix is denoised using Random Matrix Theory

20. STOXX PREMIA INDICES

3. Minimum ICB industry weight of $\min(\text{sum of } w_i^{\text{MAX}} \text{ of the components within this ICB industry, } \max(0.5 \times \text{EURO STOXX ICB industry weight, EURO STOXX ICB industry weight} - 5\%))$.
4. Minimum country weight of $\min(\text{sum of } w_i^{\text{MAX}} \text{ of the components within this country, } \max(0.5 \times \text{EURO STOXX country weight, EURO STOXX country weight} - 5\%))$.

Composition list: Variable number of constituents depending on the selection and optimization process

Review frequency: The review are conducted on a quarterly basis in March, June, September and December, together with the parent EURO STOXX index.

Weighting cap factors: weight * (100,000,000,000 / closing price of the stock), rounded to integers based on the closing prices on the Thursday prior to the second Friday of the review month.

Derived indices: EURO STOXX Multi Premia Index

20.1.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX Calculation Guide available on stoxx.com

20. STOXX PREMIA INDICES

20.2. EURO STOXX MULTI PREMIA INDEX

20.2.1. OVERVIEW

The EURO STOXX Multi Premia Index is derived from the seven EURO STOXX Single Premium Indices: EURO STOXX Value Premium Index, EURO STOXX Size Premium Index, EURO STOXX Momentum Premium Index, EURO STOXX Residual Momentum Premium Index, EURO STOXX Reversal Premium Index, EURO STOXX Low Risk Premium Index and EURO STOXX Quality Premium Index. Each of the factor portfolios contains the top third of the stocks of the eligible securities that have the best characteristics with respect to the targeted factor. The underlying universe of the factor portfolios is the EURO STOXX Index.

The EURO STOXX Multi Premia Index has the objective of diversifying across these different sources of return. The index strategy was developed based on research by Finreon, a provider of innovative asset management solutions and spin-off from the University of St. Gallen. The index combines each of these Single Premium Indices in such a way that each of the factor portfolios contributes equally to the resulting tracking error to the underlying universe.

Universe: The index universe is the underlying components in the EURO STOXX Single Premium Indices i.e. EURO STOXX Value Premium Index, EURO STOXX Size Premium Index, EURO STOXX Momentum Premium Index, EURO STOXX Residual Momentum Premium Index, EURO STOXX Reversal Premium Index, EURO STOXX Low Risk Premium Index and EURO STOXX Quality Premium Index.

Weighting scheme: The indices are price-weighted according to the principle of risk parity based on the tracking error of the EURO STOXX Single Premium Indices to the EURO STOXX Index.

Base values and dates: The following base values and dates apply: 100 on Dec 19, 2003

Index types and currencies: Price, net and gross return in EUR, USD and CHF

Dissemination calendar: STOXX Europe calendar

For a complete list please consult the data vendor code sheet on the website⁴³. Customized solutions can be provided upon request.

20.2.2. INDEX REVIEW

The data cut-off date for the underlying data is the Friday 4 weeks prior to the review implementation date.

Selection list:

The weights of the components are calculated by multiplying the optimized weights of each of the EURO STOXX Single Premium Indices in the EURO STOXX Multi Premia Index by their respective component weights.

⁴³ http://www.STOXX.com/download/indices/vendor_codes.xls

20. STOXX PREMIA INDICES

Optimization

The objective of the optimization is to have a balanced contribution of each of the single premium index to overall tracking error of the EURO STOXX Multi Premia Index to the EURO STOXX Index. The relative contribution to the tracking error is the tracking error contribution divided by the overall tracking error to the EURO STOXX Index. The tracking error contribution of each single premium index is equal to the product of its weight by its marginal tracking error contribution. The marginal tracking error contribution corresponds to the change in the tracking error of the EURO STOXX Multi Premia Index induced by a small increase in the weight of each single premium index.

The relative contribution to the tracking error (TEC) of the i^{th} EURO STOXX Single Premium Index is given by the following formula:

$$TEC_i = w_i \frac{\frac{\partial \sigma(w)}{\partial w_i}}{\sigma(w)} = w_i \frac{(\sum w)_i}{w' \sum w}$$

$\sigma(w)$ = Tracking Error of the EURO STOXX Multi Premia Index

w_i = weight of the i^{th} EURO STOXX Single Premium Index in the EURO STOXX Multi Premia Index

w = Vector composed of all the weights w_i

\sum = Tracking Error Covariance matrix⁴⁴ of the EURO STOXX Single Premium Indices

The objective is to determine the weight of each EURO STOXX Single Premium Index such as the tracking error contribution of each EURO STOXX Single Premium Index in the EURO STOXX Multi Premia Index is equal.

The optimization problem minimizes the total of the squared deviations between the tracking error contributions and the desired tracking error contribution. The vector w which is composed of all the weights w_i minimising the objective function is computed.

$$w^* = \underset{w}{\operatorname{argmin}} \sum_i \left(TEC_i - \frac{1}{n} \right)^2$$

TEC_i = Tracking error contribution of the i^{th} EURO STOXX Single Premium Index to the EURO STOXX Multi Premia Index

n = number of EURO STOXX Single Premium Indices

Under the following constraints:

- Weight of each EURO STOXX Single Premium Index shall be between 11% and 17.5%
- Cumulated weights of the EURO STOXX Single Premium Indices must be equal to 100%.

⁴⁴ The covariance matrix is denoised using Random Matrix Theory

20. STOXX PREMIA INDICES

Tracking Error Covariance Matrix Calculation

The data cut-off date is the Friday 4 weeks prior to the review implementation date using the composition in the review month. The covariance matrix is computed on the review date using the closing weekly price for each EURO STOXX Single Premium Index over the past 156 weeks whenever the EURO STOXX Index is calculated.

For each single premium index, the closing levels are observed on a window of 156 weeks $t=1, \dots, T$ from the cut-off and the weekly returns computed based on the gross return versions of the index. The tracking error is calculated as the difference between the weekly gross return of the EURO STOXX Single Premium Index with the weekly gross return of the EURO STOXX Index.

Composition list: Variable number of constituents depending on the number of components in the EURO STOXX Single Premium Indices. The component weights are calculated by multiplying the single premium index weight with the respective component weights in the index.

Review frequency: The reviews are conducted on a quarterly basis in March, June, September and December, together with the parent EURO STOXX index.

Weighting cap factors: weight * (100,000,000,000 / closing price of the stock), rounded to integers based on the closing prices on the Thursday prior to the second Friday of the review month.

Derived indices: none

20.2.3. ONGOING MAINTENANCE

Replacements: Deleted companies are not replaced.

Fast exit: Not applicable.

Fast entry: Not applicable.

Spin-offs: Spin-offs are not added permanently.

Corporate Actions: All component are maintained for corporate actions as outlined in the STOXX Calculation Guide available on [stoxx.com](https://www.stoxx.com)

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Each stock in the ICB stock universe is uniquely classified into one of the 114 Subsectors, based on the company's primary revenue source. Consequently, it is automatically and uniquely assigned to one of the 41 Sectors, one of the 19 Supersectors and one of the ten industries. For a detailed overview please refer to <http://www.STOXX.com/indices/ICB.html> and <http://www.ICBenchmark.com/>

HIERARCHY

10 Industries	19 Supersectors	41 Sectors	114 Subsectors
Oil & Gas [0001]	Oil & Gas [0500]	Oil & Gas Producers [0530]	Exploration & Production [0533] Integrated Oil & Gas [0537]
		Oil Equipment, Services & Distribution [0570]	Oil Equipment & Services [0573] Pipelines [0577]
		Alternative Energy [0580]	Renewable Energy Equipment [0583] Alternative Fuels [0587]
Basic Materials [1000]	Chemicals [1300]	Chemicals [1350]	Commodity Chemicals [1353] Speciality Chemicals [1357]
		Forestry Paper [1730]	Forestry [1733] Paper [1737]
	Basic Resources [1700]	Industrial Metals & Mining [1750]	Aluminium [1753] Nonferrous Metals [1755] Iron & Steel [1757]
		Mining [1770]	Coal [1771] Diamonds & Gemstones [1773] General Mining [1775] Gold Mining [1777] Platinum & Precious Metals [1779]
		Construction & Materials [2300]	Building Materials & Fixtures [2353] Heavy Construction [2357]
		Aerospace & Defense [2710]	Aerospace [2713] Defense [2717]
		General Industrials [2720]	Containers & Packaging [2723] Diversified Industrials [2727]
		Electronic & Electrical Equipment [2730]	Electrical Components & Equipment [2733] Electronic Equipment [2737]
		Industrial Engineering [2750]	Commercial Vehicles & Trucks [2753] Industrial Machinery [2757]
		Industrial Transportation [2770]	Delivery Services [2771] Marine Transportation [2773] Railroads [2775] Transportation Services [2777] Trucking [2779]
		Support Services [2790]	Business Support Services [2791] Business Training & Employment Agencies [2793] Financial Administration [2795] Industrial Suppliers [2797] Waste & Disposal Services [2799]
Consumer Goods [3000]	Automobiles & Parts [3300]	Automobiles & Parts [3350]	Automobiles [3353] Auto Parts [3355] Tires [3357]
		Beverages [3530]	Brewers [3533] Distiller & Vintners [3535] Soft Drinks [3537]
	Food & Beverage [3500]	Food Producers [3570]	Farming, Fishing and Plantations [3573] Food Products [3577]
		Household Goods & Home Construction [3720]	Durable Household Products [3722] Nondurable Household Products [3724] Furnishings [3726] Home Construction [3728]
	Personal & Household Goods [3700]	Leisure Goods [3740]	Consumer Electronics [3743] Recreational Products [3745] Toys [3747]
		Personal Goods [3760]	Clothing & Accessories [3763] Footwear [3765]

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

			Personal Products [3767]
		Tobacco [3780]	Tobacco [3785]
10 Industries	19 Supersectors	41 Sectors	114 Subsectors
Health Care [4000]	Health Care [4500]	Health Care Equipment & Services [4530]	Health Care Providers [4533]
			Medical Equipment [4535]
			Medical Supplies [4537]
		Pharmaceuticals & Biotechnology [4570]	Biotechnology [4573]
			Pharmaceuticals [4577]
Consumer Services [5000]	Retail [5300]	Food & Drug Retailers [5330]	Drug Retailers [5333]
			Food Retailers & Wholesalers [5337]
		General Retailers [5370]	Apparel Retailers [5371]
			Broadline Retailers [5373]
			Home Improvement Retailers [5375]
			Specialized Consumer Services [5377]
			Specialty Retailers [5379]
	Media [5500]	Media [5550]	Broadcasting & Entertainment [5553]
			Media Agencies [5555]
			Publishing [5557]
	Travel & Leisure [5700]	Travel & Leisure [5750]	Airlines [5751]
			Gambling [5752]
			Hotels [5753]
			Recreational Services [5755]
			Restaurants & Bars [5757]
			Travel & Tourism [5759]
Telecommunications [6000]	Telecommunications [6500]	Fixed Line Telecommunications [6530]	Fixed Line Telecommunications [6535]
		Mobile Telecommunications [6570]	Mobile Telecommunications [6575]
Utilities [7000]	Utilities [7500]	Electricity [7530]	Conventional Electricity [7535]
			Alternative Electricity [7537]
		Gas, Water & Multi-utilities [7570]	Gas Distribution [7573]
			Multi-utilities [7575]
			Water [7577]
Financials [8000]	Banks [8300]	Banks [8350]	Banks [8355]
	Insurance [8500]	Nonlife Insurance [8530]	Full Line Insurance [8532]
			Insurance Brokers [8534]
			Property & Casualty Insurance [8536]
			Reinsurance [8538]
		Life Insurance [8570]	Life Insurance [8575]
	Real Estate [8600]	Real Estate Investment & Services [8630]	Real Estate Holding & Development [8633]
			Real Estate Services [8637]
		Real Estate Investment Trusts [8670]	Industrial & Office REITs [8671]
			Retail REITs [8672]
			Residential REITs [8673]
			Diversified REITs [8674]
			Specialty REITs [8675]
			Mortgage REITs [8676]
			Hotel & Lodging REITs [8677]
	Financial Services [8700]	Financial Services [8770]	Asset Managers [8771]
			Consumer Finance [8773]
			Specialty Finance [8775]
			Investment Services [8777]
			Mortgage Finance [8779]
		Equity Investment Instruments [8980]	Equity Investment Instruments [8985]
		Nonequity Investment Instruments [8990]	Nonequity Investment Instruments [8995]
Technology [9000]	Technology [9500]	Software & Computer Services [9530]	Computer Services [9533]
			Internet [9535]
			Software [9537]
		Technology Hardware & Equipment [9570]	Computer Hardware [9572]
			Electronic Office Equipment [9574]
			Semiconductors [9576]
			Telecommunications Equipment [9578]

SUBSECTOR INDICES

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Subsector	Definition
0533 Exploration & Production	Companies engaged in the exploration for and drilling, production, refining and supply of oil and gas products.
0537 Integrated Oil & Gas	Integrated oil and gas companies engaged in the exploration for and drilling, production, refining, distribution and retail sales of oil and gas products.
0573 Oil Equipment & Services	Suppliers of equipment and services to oil fields and offshore platforms, such as drilling, exploration, seismic-information services and platform construction.
0577 Pipelines	Operators of pipelines carrying oil, gas or other forms of fuel. Excludes pipeline operators that derive the majority of their revenues from direct sales to end users, which are classified under Gas Distribution.
0583 Renewable Energy Equipment	Companies that develop or manufacture renewable energy equipment utilizing sources such as solar, wind, tidal, geothermal, hydro and waves.
0587 Alternative Fuels	Companies that produce alternative fuels such as ethanol, methanol, hydrogen and bio-fuels that are mainly used to power vehicles, and companies that are involved in the production of vehicle fuel cells and/or the development of alternative fuelling infrastructure.
1353 Commodity Chemicals	Producers and distributors of simple chemical products that are primarily used to formulate more complex chemicals or products, including plastics and rubber in their raw form, fiberglass and synthetic fibers.
1357 Specialty Chemicals	Producers and distributors of finished chemicals for industries or end users, including dyes, cellular polymers, coatings, special plastics and other chemicals for specialized applications. Includes makers of colorings, flavors and fragrances, fertilizers, pesticides, chemicals used to make drugs, paint in its pigment form and glass in its unfinished form. Excludes producers of paint and glass products used for construction, which are classified under Building Materials & Fixtures.
1733 Forestry	Owners and operators of timber tracts, forest tree nurseries and sawmills. Excludes providers of finished wood products such as wooden beams, which are classified under Building Materials & Fixtures.
1737 Paper	Producers, converters, merchants and distributors of all grades of paper. Excludes makers of printed forms, which are classified under Business Support Services, and manufacturers of paper items such as cups and napkins, which are classified under Nondurable Household Products.
1753 Aluminum	Companies that mine or process bauxite or manufacture and distribute aluminium bars, rods and other products for use by other industries. Excludes manufacturers of finished aluminum products, such as siding, which are categorized according to the type of end product.
1755 Nonferrous Metals	Producers and traders of metals and primary metal products other than iron, aluminum and steel. Excludes companies that make finished products, which are categorized according to the type of end product.
1757 Iron & Steel	Manufacturers and stockholders of primary iron and steel products such as pipes, wires, sheets and bars, encompassing all processes from smelting in blast furnaces to rolling mills and foundries. Includes companies that primarily mine iron ores.
1771 Coal	Companies engaged in the exploration for or mining of coal.
1773 Diamonds & Gemstones	Companies engaged in the exploration for and production of diamonds and other gemstones.
1775 General Mining	Companies engaged in the exploration, extraction or refining of minerals not defined elsewhere within the Mining sector.
Subsector	Definition
1777 Gold Mining	Prospectors for and extractors or refiners of gold-bearing ores.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

1779 Platinum & Precious Metals	Companies engaged in the exploration for and production of platinum, silver and other precious metals not defined elsewhere.
2353 Building Materials & Fixtures	Producers of materials used in the construction and refurbishment of buildings and structures, including cement and other aggregates, wooden beams and frames, paint, glass, roofing and flooring materials other than carpets. Includes producers of bathroom and kitchen fixtures, plumbing supplies and central air-conditioning and heating equipment. Excludes producers of raw lumber, which are classified under Forestry.
2357 Heavy Construction	Companies engaged in the construction of commercial buildings, infrastructure such as roads and bridges, residential apartment buildings, and providers of services to construction companies, such as architects, masons, plumbers and electrical contractors.
2713 Aerospace	Manufacturers, assemblers and distributors of aircraft and aircraft parts primarily used in commercial or private air transport. Excludes manufacturers of communications satellites, which are classified under Telecommunications Equipment.
2717 Defense	Producers of components and equipment for the defense industry, including military aircraft, radar equipment and weapons.
2723 Containers & Packaging	Makers and distributors of cardboard, bags, boxes, cans, drums, bottles and jars and glass used for packaging.
2727 Diversified Industrials	Industrial companies engaged in three or more classes of business within the Industrial industry that differ substantially from each other.
2733 Electrical Components & Equipment	Makers and distributors of electrical parts for finished products, such as printed circuit boards for radios, televisions and other consumer electronics. Includes makers of cables, wires, ceramics, transistors, electric adapters, fuel cells and security cameras.
2737 Electronic Equipment	Manufacturers and distributors of electronic products used in different industries. Includes makers of lasers, smart cards, bar scanners, fingerprinting equipment and other electronic factory equipment.
2753 Commercial Vehicles & Trucks	Manufacturers and distributors of commercial vehicles and heavy agricultural and construction machinery, including rail cars, tractors, bulldozers, cranes, buses and industrial lawn mowers. Includes non-military shipbuilders, such as builders of cruise ships and ferries.
2757 Industrial Machinery	Designers, manufacturers, distributors and installers of industrial machinery and factory equipment, such as machine tools, lathes, presses and assembly line equipment. Includes makers of pollution control equipment, castings, pressings, welded shapes, structural steelwork, compressors, pumps, bearings, elevators and escalators.
2771 Delivery Services	Operators of mail and package delivery services for commercial and consumer use. Includes courier and logistic services primarily involving air transportation.
2773 Marine Transportation	Providers of on-water transportation for commercial markets, such as container shipping. Excludes ports, which are classified under Transportation Services, and shipbuilders, which are classified under Commercial Vehicles & Trucks.
2775 Railroads	Providers of industrial railway transportation and railway lines. Excludes passenger railway companies, which are classified under Travel & Tourism, and manufacturers of rail cars, which are classified under Commercial Vehicles & Trucks.
2777 Transportation Services	Companies providing services to the Industrial Transportation sector, including companies that manage airports, train depots, roads, bridges, tunnels, ports, and providers of logistic services to shippers of goods. Includes companies that provide aircraft and vehicle maintenance services.
Subsector	Definition

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

2779 Trucking	Companies that provide commercial trucking services. Excludes road and tunnel operators, which are classified under Transportation Services, and vehicle rental and taxi companies, which are classified under Travel & Tourism.
2791 Business Support Services	Providers of nonfinancial services to a wide range of industrial enterprises and governments. Includes providers of printing services, management consultants, office cleaning services, and companies that install, service and monitor alarm and security systems.
2793 Business Training & Employment Agencies	Providers of business or management training courses and employment services.
2795 Financial Administration	Providers of computerized transaction processing, data communication and information services, including payroll, bill payment and employee benefit services.
2797 Industrial Suppliers	Distributors and wholesalers of diversified products and equipment primarily used in the commercial and industrial sectors. Includes builders merchants.
2799 Waste & Disposal Services	Providers of pollution control and environmental services for the management, recovery and disposal of solid and hazardous waste materials, such as landfills and recycling centers. Excludes manufacturers of industrial air and water filtration equipment, which are classified under Industrial Machinery.
3353 Automobiles	Makers of motorcycles and passenger vehicles, including cars, sport utility vehicles (SUVs) and light trucks. Excludes makers of heavy trucks, which are classified under Commercial Vehicles & Trucks, and makers of recreational vehicles (RVs and ATVs), which are classified under Recreational Products.
3355 Auto Parts	Manufacturers and distributors of new and replacement parts for motorcycles and automobiles, such as engines, carburetors and batteries. Excludes producers of tires, which are classified under Tires.
3357 Tires	Manufacturers, distributors and retreaders of automobile, truck and motorcycle tires.
3533 Brewers	Manufacturers and shippers of cider or malt products such as beer, ale and stout.
3535 Distillers & Vintners	Producers, distillers, vintners, blenders and shippers of wine and spirits such as whisky, brandy, rum, gin or liqueurs.
3537 Soft Drinks	Manufacturers, bottlers and distributors of nonalcoholic beverages, such as soda, fruit juices, tea, coffee and bottled water.
3573 Farming, Fishing and Plantations	Companies that grow crops or raise livestock, operate fisheries or own nontobacco plantations. Includes manufacturers of livestock feeds and seeds and other agricultural products but excludes manufacturers of fertilizers or pesticides, which are classified under Specialty Chemicals.
3577 Food Products	Food producers, including meatpacking, snacks, fruits, vegetables, dairy products and frozen seafood. Includes producers of pet food and manufacturers of dietary supplements, vitamins and related items. Excludes producers of fruit juices, tea, coffee, bottled water and other nonalcoholic beverages, which are classified under Soft Drinks.
3722 Durable Household Products	Manufacturers and distributors of domestic appliances, lighting, hand tools and power tools, hardware, cutlery, tableware, garden equipment, luggage, towels and linens.
3724 Nondurable Household Products	Producers and distributors of pens, paper goods, batteries, light bulbs, tissues, toilet paper and cleaning products such as soaps and polishes.
3726 Furnishings	Manufacturers and distributors of furniture, including chairs, tables, desks, carpeting, wallpaper and office furniture.
3728 Home Construction	Constructors of residential homes, including manufacturers of mobile and prefabricated homes intended for use in one place.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Subsector	Definition
3743 Consumer Electronics	Manufacturers and distributors of consumer electronics, such as TVs, VCRs, DVD players, audio equipment, cable boxes, calculators and camcorders.
3745 Recreational Products	Manufacturers and distributors of recreational equipment. Includes musical instruments, photographic equipment and supplies, RVs, ATVs and marine recreational vehicles such as yachts, dinghies and speedboats.
3747 Toys	Manufacturers and distributors of toys and video/computer games, including such toys and games as playing cards, board games, stuffed animals and dolls.
3763 Clothing & Accessories	Manufacturers and distributors of all types of clothing, jewelry, watches or textiles. Includes sportswear, sunglasses, eyeglass frames, leather clothing and goods, and processors of hides and skins.
3765 Footwear	Manufacturers and distributors of shoes, boots, sandals, sneakers and other types of footwear.
3767 Personal Products	Makers and distributors of cosmetics, toiletries and personal-care and hygiene products, including deodorants, soaps, toothpaste, perfumes, diapers, shampoos, razors and feminine-hygiene products. Includes makers of contraceptives other than oral contraceptives, which are classified under Pharmaceuticals.
3785 Tobacco	Manufacturers and distributors of cigarettes, cigars and other tobacco products. Includes tobacco plantations.
4533 Health Care Providers	Owners and operators of health maintenance organizations, hospitals, clinics, dentists, opticians, nursing homes, rehabilitation and retirement centers. Excludes veterinary services, which are classified under Specialized Consumer Services.
4535 Medical Equipment	Manufacturers and distributors of medical devices such as MRI scanners, prosthetics, pacemakers, X-ray machines and other nondisposable medical devices.
4573 Biotechnology	Companies engaged in research into and development of biological substances for the purposes of drug discovery and diagnostic development, and which derive the majority of their revenue from either the sale or licensing of these drugs and diagnostic tools.
4577 Pharmaceuticals	Manufacturers of prescription or over-the-counter drugs, such as aspirin, cold remedies and birth control pills. Includes vaccine producers but excludes vitamin producers, which are classified under Food Products.
5333 Drug Retailers	Operators of pharmacies, including wholesalers and distributors catering to these businesses.
5337 Food Retailers & Wholesalers	Supermarkets, food-oriented convenience stores and other food retailers and distributors. Includes retailers of dietary supplements and vitamins.
5371 Apparel Retailers	Retailers and wholesalers specializing mainly in clothing, shoes, jewelry, sunglasses and other accessories.
5373 Broadline Retailers	Retail outlets and wholesalers offering a wide variety of products including both hard goods and soft goods.
5375 Home Improvement Retailers	Retailers and wholesalers concentrating on the sale of home improvement products, including garden equipment, carpets, wallpaper, paint, home furniture, blinds and curtains, and building materials.
5377 Specialized Consumer Services	Providers of consumer services such as auction houses, day-care centers, dry cleaners, schools, consumer rental companies, veterinary clinics, hair salons and providers of funeral, lawn-maintenance, consumer-storage, heating and cooling installation and plumbing services.
5379 Specialty Retailers	Retailers and wholesalers concentrating on a single class of goods, such as electronics, books, automotive parts or closeouts. Includes automobile dealerships, video rental stores, dollar stores, duty-free shops and automotive fuel stations not owned by oil companies.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

5553 Broadcasting &
Entertainment

Producers, operators and broadcasters of radio, television, music and filmed entertainment. Excludes movie theaters, which are classified under Recreational Services.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Subsector	Definition
5555 Media Agencies	Companies providing advertising, public relations and marketing services. Includes billboard providers and telemarketers.
5557 Publishing	Publishers of information via printed or electronic media.
5751 Airlines	Companies providing primarily passenger air transport. Excludes airports, which are classified under Transportation Services.
5752 Gambling	Providers of gambling and casino facilities. Includes online casinos, racetracks and the manufacturers of pachinko machines and casino and lottery equipment.
5753 Hotels	Operators and managers of hotels, motels, lodges, resorts, spas and campgrounds.
5755 Recreational Services	Providers of leisure facilities and services, including fitness centers, cruise lines, movie theaters and sports teams.
5757 Restaurants & Bars	Operators of restaurants, fast-food facilities, coffee shops and bars. Includes integrated brewery companies and catering companies.
5759 Travel & Tourism	Companies providing travel and tourism related services, including travel agents, online travel reservation services, automobile rental firms and companies that primarily provide passenger transportation, such as buses, taxis, passenger rail and ferry companies.
6535 Fixed Line Telecommunications	Providers of fixed-line telephone services, including regional and long-distance. Includes companies that primarily provides telephone services through the internet. Excludes companies whose primary business is Internet access, which are classified under Internet.
6575 Mobile Telecommunications	Providers of mobile telephone services, including cellular, satellite and paging services. Includes wireless tower companies that own, operate and lease mobile site towers to multiple wireless service providers.
7535 Conventional Electricity	Companies generating and distributing electricity through the burning of fossil fuels such as coal, petroleum and natural gas, and through nuclear energy.
7537 Alternative Electricity	Companies generating and distributing electricity from a renewable source. Includes companies that produce solar, water, wind and geothermal electricity.
7573 Gas Distribution	Distributors of gas to end users. Excludes providers of natural gas as a commodity, which are classified under the Oil & Gas industry.
7575 Multiutilities	Utility companies with significant presence in more than one utility.
7577 Water	Companies providing water to end users, including water treatment plants.
8355 Banks	Banks providing a broad range of financial services, including retail banking, loans and money transmissions.
8532 Full Line Insurance	Insurance companies with life, health, property & casualty and reinsurance interests, no one of which predominates.
8534 Insurance Brokers	Insurance brokers and agencies.
8536 Property & Casualty Insurance	Companies engaged principally in accident, fire, automotive, marine, malpractice and other classes of nonlife insurance.
8538 Reinsurance	Companies engaged principally in reinsurance.
8575 Life Insurance	Companies engaged principally in life and health insurance.
8633 Real Estate Holding & Development	Companies that invest directly or indirectly in real estate through development, investment or ownership. Excludes real estate investment trusts and similar entities, which are classified as Real Estate Investment Trusts.
8637 Real Estate Services	Companies that provide services to real estate companies but do not own the properties themselves. Includes agencies, brokers, leasing companies, management companies and advisory services. Excludes real estate investment trusts and similar entities, which are classified as Real Estate Investment Trusts.
8671 Industrial & Office REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that primarily invest in office, industrial and flex properties.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Subsector	Definition
8672 Retail REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that primarily invest in retail properties. Includes malls, shopping centers, strip centers and factory outlets.
8673 Residential REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that primarily invest in residential home properties. Includes apartment buildings and residential communities.
8674 Diversified REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that invest in a variety of property types without a concentration on any single type.
8675 Specialty REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that invest in self storage properties, properties in the health care industry such as hospitals, assisted living facilities and health care laboratories, and other specialized properties such as auto dealership facilities, timber properties and net lease properties.
8676 Mortgage REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that are directly involved in lending money to real estate owners and operators or indirectly through the purchase of mortgages or mortgage backed securities.
8677 Hotel & Lodging REITs	Real estate investment trusts or corporations (REITs) or listed property trusts (LPTs) that primarily invest in hotels or lodging properties.
8771 Asset Managers	Companies that provide custodial, trustee and other related fiduciary services. Includes mutual fund management companies.
8773 Consumer Finance	Credit card companies and providers of personal finance services such as personal loans and check cashing companies.
8775 Specialty Finance	Companies engaged in financial activities not specified elsewhere. Includes companies not classified under Equity Investment Instruments or Nonequity Investment Instruments engaged primarily in owning stakes in a diversified range of companies.
8777 Investment Services	Companies providing a range of specialized financial services, including securities brokers and dealers, online brokers and security or commodity exchanges.
8779 Mortgage Finance	Companies that provide mortgages, mortgage insurance and other related services.
8985 Equity Investment Instruments	Corporate closed-ended investment entities identified under distinguishing legislation, such as investment trusts and venture capital trusts.
8995 Non-equity Investment Instruments	Non-corporate, open-ended investment instruments such as open-ended investment companies and funds, unit trusts, ETFs, currency funds and split capital trusts.
9533 Computer Services	Companies that provide consulting services to other businesses relating to information technology. Includes providers of computer-system design, systems integration, network and systems operations, data management and storage, repair services and technical support.
9535 Internet	Companies providing Internet-related services, such as Internet access providers and search engines and providers of Web site design, Web hosting, domain-name registration and e-mail services.
9537 Software	Publishers and distributors of computer software for home or corporate use. Excludes computer game producers, which are classified under Toys.
9572 Computer Hardware	Manufacturers and distributors of computers, servers, mainframes, workstations and other computer hardware and subsystems, such as mass-storage drives, mice, keyboards and printers.
9574 Electronic Office Equipment	Manufacturers and distributors of electronic office equipment, including photocopiers and fax machines.
9576 Semiconductors	Producers and distributors of semiconductors and other integrated chips, including other products related to the semiconductor industry, such as semiconductor capital

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

	equipment and motherboards. Excludes makers of printed circuit boards, which are classified under Electrical Components & Equipment.
9578 Telecommunications Equipment	Makers and distributors of high-technology communication products, including satellites, mobile telephones, fiber optics, switching devices, local and wide-area networks, teleconferencing equipment and connectivity devices for computers, including hubs and routers.

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

STOXX Ltd. introduced ICB on September 20, 2004 and applies the current classification based on the latest modification effective September 22, 2008.

SUBSECTOR ASSIGNMENT FOR STOXX OPTIMISED MARKET QUARTILES

The STOXX Optimised Market Quartile indices combine subsectors to four market segments which are used in the calculation of the Market Quartile indices.

Description	ICB	ICB Name
Consumer Discretionary	3353	Automobiles
	3355	Auto Parts
	3357	Tires
	3722	Durable Household Products
	3726	Furnishings
	3728	Home Construction
	3745	Recreational Products
	3747	Toys
	3763	Clothing & Accessories
	3765	Footwear
	5371	Apparel Retailers
	5373	Broadline Retailers
	5375	Home Improvement Retailers
	5377	Specialized Consumer Services
	5379	Specialty Retailers
	5553	Broadcasting & Entertainment
	5555	Media Agencies
	5557	Publishing
	5752	Gambling
	5753	Hotels
	5755	Recreational Services
	5757	Restaurant & Bars
	5759	Travel & Tourism
Consumer Staples	3533	Brewers
	3535	Distillers & Vintners
	3537	Soft Drinks
	3573	Farming & Fishing
	3577	Food Products
	3724	Nondurable Household Products
	3767	Personal Products
	3785	Tobacco
	5337	Food Retailers & Wholesalers
Defensive	0537	Integrated Oil & Gas
	4533	Health Care Providers
	4535	Medical Equipment
	4537	Medical Supplies
	4573	Biotechnology

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Description	ICB	ICB Name
Defensive	4577	Pharmaceuticals
	5333	Drug Retailers
	6535	Fixed Line Telecommunications
	6575	Mobile Telecommunications
	7535	Conventional Electricity
	7537	Alternative Electricity
	7573	Gas Distribution
	7575	Multiutilities
	7577	Water
	8534	Insurance Brokers
	8536	Property & Casualty Insurance
	8538	Reinsurance
Cyclical	0533	Exploration & Production
	0573	Oil Equipment & Services
	0577	Pipelines
	0583	Renewable Energy Equipment
	0587	Alternative Fuels
	1353	Commodity Chemicals
	1357	Specialty Chemicals
	1733	Forestry
	1737	Paper
	1753	Aluminium
	1755	Nonferrous Metals
	1757	Iron & Steel
	1771	Coal
	1773	Diamonds & Gemstones
	1775	General Mining
	1777	Gold Mining
	1779	Platinum & Precious Metals
	2353	Building Materials & Fixtures
	2357	Heavy Construction
	2713	Aerospace
	2717	Defense
	2723	Containers & Packaging
	2727	Diversified Industrials
	2733	Electrical Components & Equipment
	2737	Electronic Equipment
	2753	Commercial Vehicles & Trucks
	2757	Industrial Machinery
	2771	Delivery Services
	2773	Marine Transportation
	2775	Railroads
	2777	Transportation Services
	2779	Trucking
	2791	Business Support Services

APPENDIX A: INDUSTRY CLASSIFICATION BENCHMARK

Description	ICB	ICB Name
Cyclical cont.	2793	Business Training & Employment Agencies
	2795	Financial Administration
	2797	Industrial Suppliers
	2799	Waste & Disposal Services
	3743	Consumer Electronics
	5751	Airlines
	8355	Banks
	8532	Full Line Insurance
	8575	Life Insurance
	8633	Real Estate Holding & Development
	8637	Real Estate Services
	8671	Industrial & Office REITs
	8672	Retail REITs
	8673	Residential REITs
	8674	Diversified REITs
	8675	Specialty REITs
	8676	Mortgage REITs
	8677	Hotel & Lodging REITs
	8771	Asset Managers
	8773	Consumer Finance
	8775	Specialty Finance
	8777	Investment Services
	8779	Mortgage Finance
	8985	Equity Investment Instruments
	8995	Nonequity Investment Instruments
	9533	Computer Services
	9535	Internet
	9537	Software
	9572	Computer Hardware
	9574	Electronic Office Equipment
	9576	Semiconductors
	9578	Telecommunications Equipment