

## MarketVector Indexes GmbH

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# Benchmark Statement

## MarketVector™ Sector Indexes Family

Status: 31 December 2022

MarketVector Indexes GmbH ('MarketVector™') administers among other indexes certain sector indexes (the "**MarketVector™ Sector Indexes**"). The MVIS® Sector Indexes are a selection of equity indexes that cover certain sectors of the equity market on a country or global level. The MarketVector™ Sector Indexes follow either a unique pure-play or a thematic approach. The pure play approach considers companies which generate at least 50% of their revenues from the index target to be eligible for index inclusion. The thematic approach considers companies that operate in the index theme by way of revenue exposure or product offering and services from certain sub-sectors as specified in the Index Guides.

MarketVector™ has grouped its MarketVector™ Sector Indexes into one family of indexes (the "**MarketVector™ Sector Indexes Family**") because each of the MVIS® Sector Indexes measure the economic reality of one specific market sector, use common input data, and are calculated according to similar methodologies.

This document must be read in conjunction with the MarketVector™ Global Equity Index Guide, which is available on the MarketVector™ website ([www.marketvector.com](http://www.marketvector.com)).

The European Benchmark Regulation ("**BMR**") on indexes used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds ("**Benchmark/s**" or "**Index**" or "**Indexes**") aims to establish a common framework to ensure the accuracy and integrity of Indexes used as Benchmarks in the EU. Article 27(1) of the BMR requires index administrators to publish a statement for any Benchmark or, where applicable, for any family of Benchmarks if it may be used in the EU ("**Benchmark Statement**"). The Benchmark Statement is a document that is aimed at helping users of an Index to understand the market or economic reality that the Index or family of Indexes seeks to measure, the sources of its input data, the reliability of the index in times of market stress and its susceptibility to manipulation.

This Benchmark Statement refers to a range of documents, policies and procedures available from MarketVector™ website at [www.marketvector.com](http://www.marketvector.com) or on request to [info@marketvector.com](mailto:info@marketvector.com).

A. Index Description of the MarketVector™ Sector Indexes Family

	Reference in BMR	Description of Requirement	MarketVector™ Reaction and Measures
<b>General</b>			
1	Date of publication and last update RTS* Article 1 No. 1(a)	The benchmark statement shall state the date of publication and the date of its last update.	Date of original Benchmark Statement – April 2018.  Last update – December 2022
2	1.2 Review of Benchmark Statement RTS Article 1 No. 1(a)	The administrator shall review and, where necessary, update the benchmark statement for each benchmark or family of benchmarks in the event of any changes to the information to be provided under this Article and at least every two years.	MarketVector™ will review this Benchmark Statement periodically and at least once every two years or in due course, where material changes to the information herein become necessary.
3	1.3 Use of ISIN RTS Article 1 No. 1(b)	A Benchmark Statement for a family of Indexes shall include a reference to a place where the ISINs are publicly accessible free of charge.	The ISIN together with many further identifiers and index parameters is available on <a href="http://www.marketvector.com">www.marketvector.com</a> below the tab “Specifications/Identifiers”.

\* Regulatory Technical Standards, Delegated Regulation 2018/1643

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4	1.4 Contributions of input data RTS Article 1 No. 1(c)	The benchmark statement shall state whether the benchmark or at least one benchmark in the family of benchmarks is determined using contributions of input data.	The MarketVector™ Sector Indexes Family does not use contributions of input data.
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5	1.5 Type of Benchmark RTS Article 1 No. 1(d)	The benchmark statement shall state whether the benchmark qualifies as one of the types of benchmarks listed under Title III of the BMR.	<p>The MarketVector™ Sector Indexes Family qualifies as a family of Benchmarks that consists solely of non-significant Benchmarks according to number 27 of Article 3 (1) of the BMR.</p> <p>Accordingly, the MarketVector™ Sector Indexes Family does not qualify as a family of regulated-data benchmarks, interest rate Benchmarks, commodity Benchmarks, critical Benchmark, significant Benchmarks nor a variety of these.</p>
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## Content

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6 2.1 Market reality RTS Article 1 No. 2(a), (b)	In order to define the market or economic reality the Benchmark Statement shall include the following information:	The Indexes of the MarketVector™ Sector Indexes Family refer to strictly rules-based determinations of markets as described in the Index Guide for “MarketVector™ Global Equity Indexes”. The following indexes are EU Climate Transition Benchmarks, EU Paris-aligned Benchmarks, benchmarks that pursue ESG objectives or benchmarks that take into account ESG factors: MVAI, MVBION, MVBION, MVCET, MVCIRC, MVDEF, MVESPG, MVFOF, MVFHC, MVHTWO, MVMETV, MVNUCL, MVSMC and MVSPC. MVBION, MVCIRC, MVFOF, MVFHC, MVHTWO also pursue ESG objectives. All other indexes within the Sector Indexes Family do not apply ESG factors in its selection and weighting methodology.
	<ul style="list-style-type: none"><li>- A general description of the market or economic reality;</li><li>- The geographical boundaries, if any, of the market or economic reality.</li></ul>	<ol style="list-style-type: none"><li>1. MarketVector™ Artificial Intelligence ESG<ul style="list-style-type: none"><li>- Currency: EUR</li><li>- Approach: Global Thematic: Product offering</li><li>- Potential market participants: Companies whose products or services incorporate artificial intelligence.</li><li>- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.</li><li>- Full market capitalization: 4.7trn EUR</li><li>- Investable market capitalization: 3.7trn EUR</li><li>- Number of constituents of the eligible universe: 99</li><li>- Number of constituents of the Index: 99</li></ul></li></ol>

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2. MVIS® Australia A-Reits (AUD)
    - Currency: AUD
    - Approach: Pure-Play
    - Potential market participants: Australia incorporated or active REITS with an Australian listing.
    - Geographical boundaries: Must be listed in Australia and either incorporated or with significant activities there,
    - Full market capitalization: 118bln AUD
    - Investable market capitalization: 77bln AUD
    - Number of constituents of the eligible universe: 23
    - Number of constituents of the Index: 17
  
  3. MVIS® Australia Banks (AUD)
    - Currency: AUD
    - Approach: Pure-Play
    - Potential market participants: Australia incorporated or active Banks with an Australian listing
    - Geographical boundaries: Must be listed in Australia and either incorporated or with significant activities there,
    - Full market capitalization: 495bln AUD
    - Investable market capitalization: 423bln AUD
    - Number of constituents of the eligible universe: 7
    - Number of constituents of the Index: 7
  
  4. MarketVector™ Bioproduction Tech and Tools ESG
    - Currency: EUR
    - Approach: Pure-Play
    - Potential market participants: Companies involved in the development of technologies, tools, materials, and processes related to the development or
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- manufacture of biopharmaceuticals.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 885bln EUR
  - Investable market capitalization: 645bln EUR
  - Number of constituents of the eligible universe: 77
  - Number of constituents of the Index: 51
5. MVIS® Digital India
- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: India incorporated or active digital companies.
  - Geographical boundaries: Global exposure.
  - Full market capitalization: 654bln USD
  - Investable market capitalization: 255bln USD
  - Number of constituents of the eligible universe: 63
  - Number of constituents of the Index: 35
6. MVIS® Global Bionic Healthcare ESG Index
- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Companies involved in implants, bioprinting, prosthesis, or preservation of organs and tissue.
  - Geographical boundaries: Global exposure.
  - Full market capitalization: 438bln USD
  - Investable market capitalization: 326bln USD
  - Number of constituents of the eligible universe: 53
  - Number of constituents of the Index: 25
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7. MarketVector™ Global Circular Economy ESG
    - Currency: USD
    - Approach: Pure-Play
    - Potential market participants: Companies contributing to the circular economy.
    - Geographical boundaries: Global exposure.
    - Full market capitalization: 280bln USD
    - Investable market capitalization: 210bln USD
    - Number of constituents of the eligible universe: 68
    - Number of constituents of the Index: 30
  
  8. MarketVector™ Global Clean Energy Transition ESG
    - Currency: EUR
    - Approach: Pure-Play
    - Potential market participants: Companies involved in providing technologies and materials contributing to the global transition to clean energy.
    - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
    - Full market capitalization: 443bln
    - Investable market capitalization: 267bln
    - Number of constituents of the eligible universe: 136
    - Number of constituents of the Index: 76
  
  9. MarketVector™ Global Defense Industry
    - Currency: USD
    - Approach: Pure-Play
    - Potential market participants: Companies involved in serving national defense industries.
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- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 233bln USD
- Investable market capitalization: 151bln USD
- Number of constituents of the eligible universe: 33
- Number of constituents of the Index: 30

#### 10. MVIS® Global Digital Assets Equity

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in digital assets business.
- Geographical boundaries: Global exposure.
- Full market capitalization: 45bln USD
- Investable market capitalization: 38bln USD
- Number of constituents of the eligible universe: 21
- Number of constituents of the Index: 20

#### 11. MVIS® Global Future of Food ESG

- Currency: USD
- Approach: Global Thematic: Revenue Exposure
- Potential market participants: Companies involved in the organic or alternative meat/dairy products, precision agriculture or urban farming technology, or food flavors industries.
- Geographical boundaries: Global exposure.
- Full market capitalization: 233bln USD
- Investable market capitalization: 158bln USD
- Number of constituents of the eligible universe: 36
- Number of constituents of the Index: 35



12. MVIS® Global Future Healthcare ESG

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies must be involved in the genomic health care and electronic healthcare industries.
- Geographical boundaries: Global exposure.
- Full market capitalization: 611bln USD
- Investable market capitalization: 379bln USD
- Number of constituents of the eligible universe: 129
- Number of constituents of the Index: 56

13. MVIS® Global Gaming

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in gaming business.
- Geographical boundaries: Global exposure.
- Full market capitalization: 342bln USD
- Investable market capitalization: 186bln USD
- Number of constituents of the eligible universe: 62
- Number of constituents of the Index: 36

14. MVIS® Global Hydrogen Economy ESG

- Currency: USD
  - Approach: Pure-Play (incl. exceptions)
  - Potential market participants: Companies involved in hydrogen economy.
  - Geographical boundaries: Global exposure.
  - Full market capitalization: 334bln USD
  - Investable market capitalization: 271bln USD
  - Number of constituents of the eligible universe: 25
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Number of constituents of the Index: 25

15. MVIS® Global Low Carbon Energy

- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Companies involved with renewable sources of energy and reduction of energy consumption.
  - Geographical boundaries: Global exposure.
  - Full market capitalization: 1.2trn USD
  - Investable market capitalization: 846bln USD
  - Number of constituents of the eligible universe: 162
- Number of constituents of the Index: 70

16. MarketVector™ Global Metaverse and e-Games ESG

- Currency: EUR
- Approach: Pure-Play
- Potential market participants: Companies involved in technologies and services related to the metaverse, e-gaming and eSports.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 3.3trn EUR
- Investable market capitalization: 2.5trn EUR
- Number of constituents of the eligible universe: 98
- Number of constituents of the Index: 74

17. MVIS® Global Space Industry ESG

- Currency: USD
  - Approach: Global Thematic: Revenue Exposure
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- Potential market participants: Companies involved in space travel or exploration, or satellite-based communication industries.
- Geographical boundaries: Global exposure.
- Full market capitalization: 52blnUSD
- Investable market capitalization: 30bln USD
- Number of constituents of the eligible universe: 28
- Number of constituents of the Index: 25

18. MVIS® Global Video Gaming & eSports

- Currency: USD and AUD
- Approach: Pure-Play
- Potential market participants: Companies involved in video gaming and eSports.
- Geographical boundaries: Global exposure.
- Full market capitalization: 1.3trn USD
- Investable market capitalization: 884bln USD
- Number of constituents of the eligible universe: 74
- Number of constituents of the Index: 25

19. MarketVector™ Global Video Gaming & eSports ESG

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in video gaming and eSports.
- Geographical boundaries: Global exposure.
- Full market capitalization: 1.3trn USD
- Investable market capitalization: 884bln USD
- Number of constituents of the eligible universe: 73
- Number of constituents of the Index: 25

20. MVIS® US Business Development Companies

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies classified as business development companies in the USA.
- Geographical boundaries: Must be listed and incorporated in the USA.
- Full market capitalization: 45bln USD
- Investable market capitalization: 42bln USD
- Number of constituents of the eligible universe: 29
- Number of constituents of the Index: 25

21. MarketVector™ US Business Development Companies Liquid

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies classified as business development companies in the USA.
- Geographical boundaries: Must be listed and incorporated in the USA.
- Full market capitalization: 45bln USD
- Investable market capitalization: 42bln USD
- Number of constituents of the eligible universe: 29
- Number of constituents of the Index: 25

22. MVIS® US Listed Biotech 25

- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Companies involved in biotech.
  - Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
  - Full market capitalization: 831bln USD
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- Investable market capitalization: 575bln USD
  - Number of constituents of the eligible universe: 296
  - Number of constituents of the Index: 25
23. MarketVector™ US Listed Emerging Technologies Strategy Index
- Currency: USD
  - Approach: Not applicable
  - Potential market participants: ETFs included in the Broad Technology Industries Bucket and Emerging Technologies Bucket
  - Geographical boundaries: Global exposure. ETFs must be listed on a US exchange.
  - Full market capitalization: Not applicable
  - Investable market capitalization: Not applicable
  - Number of constituents of the eligible universe: 17
  - Number of constituents of the Index: 17
24. MarketVector™ US Listed Office and Commercial REITs Index
- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Real Estate Investment Trusts that focus on the office, industrial, or retail real estate segments.
  - Geographical boundaries: Stocks must be listed on a US exchange.
  - Full market capitalization: 250bln USD
  - Investable market capitalization: 164bln USD
  - Number of constituents of the eligible universe: 65
  - Number of constituents of the Index: 25
25. MVIS® US Listed Pharmaceutical 25
- Currency: USD
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- Approach: Pure-Play
- Potential market participants: Companies involved in the pharmaceutical industry.
- Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
- Full market capitalization: 2.9trn USD
- Investable market capitalization: 2.4trn USD
- Number of constituents of the eligible universe: 62  
Number of constituents of the Index: 25

26. MVIS® US Listed Retail 25

- Currency: USD
- Approach: Pure-Play
- Potential market participants: : Companies involved in retail.
- Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
- Full market capitalization: 2.7trn USD
- Investable market capitalization: 2.0trn USD
- Number of constituents of the eligible universe: 129  
Number of constituents of the Index: 25

27. MVIS® US Listed Semiconductor 25

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the semiconductor industry.
- Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
- Full market capitalization: 2.3trn USD

- Investable market capitalization: 1.9trn USD
- Number of constituents of the eligible universe: 75  
Number of constituents of the Index: 25

28. MVIS® US Listed Semiconductor 10% Capped ESG

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the semiconductor industry.
- Geographical boundaries: Global exposure. Stocks must be listed on a US exchange.
- Full market capitalization: 2.3trn USD
- Investable market capitalization: 1.9trn USD
- Number of constituents of the eligible universe: 71  
Number of constituents of the Index: 25

29. MVIS® US Mortgage REITs

- Currency: USD
- Approach: Pure-Play
- Potential market participants: US listed real estate investment trusts active in mortgages.
- Geographical boundaries: Must be listed and incorporated in the USA.
- Full market capitalization: 53bln USD
- Investable market capitalization: 41bln USD
- Number of constituents of the eligible universe: 31  
Number of constituents of the Index: 26

30. BlueStar® Artificial Intelligence Index

- Currency: USD
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- Approach: Global Thematic: Product offering
- Potential market participants: Companies whose products or services incorporate artificial intelligence
- Geographic boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 5.9trn USD
- Investable market capitalization: 4.6trn USD
- Number of constituents of the eligible universe: 102
- Number of constituents of the Index: 102

#### 31. BlueStar® Asia Technology Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be incorporated in South East Asian Emerging Markets, China or Hong Kong and involved in the technology or biotechnology industries.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 2.3trn USD
- Investable market capitalization: 1.6trn USD
- Number of constituents of the eligible universe: 116
- Number of constituents of the Index: 92

#### 32. BlueStar® Autonomous Driving Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies whose products and services are



- related to the autonomous driving and connected vehicles industries
- Geographic boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 4.2trn USD
  - Investable market capitalization: 3.1trn USD
  - Number of constituents of the eligible universe: 102
  - Number of constituents of the Index: 102

### 33. BlueStar® Big Data & AI

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be involved in the 'Big Data' and 'Artificial Intelligence' business.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 335bln USD
- Investable market capitalization: 199bln USD
- Number of constituents of the eligible universe: 17
- Number of constituents of the Index: 17

### 34. BlueStar® China Internet Software Index

- Currency: USD
  - Approach: Global Thematic: Product Offering
  - Potential market participants: Companies must be incorporated in China or Hong Kong and offer internet-based services.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the
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index guide.

- Full market capitalization: 1.2trn USD
- Investable market capitalization: 820bln USD
- Number of constituents of the eligible universe: 58
- Number of constituents of the Index: 40

#### 35. BlueStar® Data Center and Logistics Real Estate Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies must be involved in the operation or ownership of real estate facilities used for logistics/warehousing or data centers.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 352bln USD
- Investable market capitalization: 241bln USD
- Number of constituents of the eligible universe: 40
- Number of constituents of the Index: 40

#### 36. BlueStar® Digital Advertising Index

- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Companies must be involved in digital advertising
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 70bln USD
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- Investable market capitalization: 40bln USD
- Number of constituents of the eligible universe: 40
- Number of constituents of the Index: 36

#### 37. BlueStar® E-Commerce US Leaders Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be incorporated in the US and involved in the online retail industry
- Geographical boundaries: Must be listed and incorporated in the US.
- Full market capitalization: 2.3trn USD
- Investable market capitalization: 1.7trn USD
- Number of constituents of the eligible universe: 67
- Number of constituents of the Index: 50

#### 38. BlueStar® E-Games Index

- Currency: USD
- Approach: Global Thematic: Revenue Exposure and Product Offering
- Potential market participants: Companies involved in the video game, e-sports, and online gambling industries
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 3.2trn USD
- Investable market capitalization: 2.5trn USD
- Number of constituents of the eligible universe: 65
- Number of constituents of the Index: 60

39. BlueStar® Electric Vehicle Industry Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the e-healthcare industry.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 518bln USD
- Investable market capitalization: 366bln USD
- Number of constituents of the eligible universe: 41
- Number of constituents of the Index: 35

40. BlueStar® Europe Infrastructure Index

- Currency: EUR
- Approach: Pure-Play
- Potential market participants: Companies involved in the infrastructure segment in the European market.
- Geographical boundaries: Stocks must be listed on an exchange in Europe. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 373 bln
- Investable market capitalization: 287 bln
- Number of constituents of the eligible universe: 73
- Number of constituents of the Index: 50

41. BlueStar® Europe Travel and Vacation Index

- Currency: EUR
  - Approach: Global Thematic: Revenue Exposure
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- Potential market participants: Companies must be involved in the travel industry.
- Geographical boundaries: Stocks must be listed on an exchange in Europe. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 87bln EUR
- Investable market capitalization: 62bln EUR
- Number of constituents of the eligible universe: 25
- Number of constituents of the Index: 25

#### 42. BlueStar® 5G Communications Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies involved in mobile communications industry
- Geographical boundaries: Must be listed in the US
- Full market capitalization: 5.6trn USD
- Investable market capitalization: 4.3trn USD
- Number of constituents of the eligible universe: 80
- Number of constituents of the Index: 80

#### 43. BlueStar® Fintech Index

- Currency: USD
- Approach: Global Thematic: Revenue Exposure
- Potential market participants: Companies involved in mobile payments, electronic transaction processing, and financial or accounting technology.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.

- Full market capitalization: 1.6trn USD
- Investable market capitalization: 1.2trn USD
- Number of constituents of the eligible universe: 85
- Number of constituents of the Index: 56

#### 44. BlueStar® Genomic Health Care Index

- Currency: USD
- Approach: Global Thematic: Revenue Exposure
- Potential market participants: Companies involved in developing genetics-based healthcare therapies or technologies.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 452bln USD
- Investable market capitalization: 291bln USD
- Number of constituents of the eligible universe: 91
- Number of constituents of the Index: 75

#### 45. BlueStar® Global 5G Connectivity Index

- Currency: USD
  - Approach: Global Thematic: Product Offering
  - Potential market participants: Companies involved in mobile communications industry.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 4.8trn USD
  - Investable market capitalization: 3.6trn USD
  - Number of constituents of the eligible universe: 98
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- Number of constituents of the Index: 98

#### 46. BlueStar® Global E-Brokers and Digital Capital Markets

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies in the global online brokerage industry.
- Geographical boundaries: Global exposure.
- Full market capitalization: 224bln USD
- Investable market capitalization: 160bln USD
- Number of constituents of the eligible universe: 27
- Number of constituents of the Index: 25

#### 47. BlueStar® Global GreenTech Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be involved in renewable energy, building materials, or waste management industries.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 1.5trn USD
- Investable market capitalization: 1.1trn USD
- Number of constituents of the eligible universe: 135
- Number of constituents of the Index: 108

#### 48. BlueStar® Global Logistics Index

- Currency: EUR
  - Approach: Global Thematic: Revenue Exposure and Product Offering
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- Potential market participants: Companies involved in the logistics industry
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 1.7trn USD
- Investable market capitalization: 1.3trn USD
- Number of constituents of the eligible universe: 59
- Number of constituents of the Index: 59

#### 49. BlueStar® Global Logistics Benchmark Index

- Currency: EUR
- Approach: Global Thematic: Revenue Exposure and Product Offering
- Potential market participants: Companies involved in the logistics industry
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 1.7trn USD
- Investable market capitalization: 1.3trn USD
- Number of constituents of the eligible universe: 59
- Number of constituents of the Index: 59

#### 50. BlueStar® Global Online Gambling, Video Gaming and eSports Index

- Currency: USD
- Approach: Global Thematic: Revenue Exposure and Product Offering
- Potential market participants: Companies involved in the online gambling, video gaming and eSports industries
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.



- Full market capitalization: 1.3trn USD
- Investable market capitalization: 941bln USD
- Number of constituents of the eligible universe: 99
- Number of constituents of the Index: 50

#### 51. BlueStar® Hotels, Airlines and Cruises Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies whose activities are in the passenger airlines, hotels and resorts (excl. motel chains) and/or cruise industries.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 400bln USD
- Investable market capitalization: 254bln USD
- Number of constituents of the eligible universe: 87
- Number of constituents of the Index: 55

#### 52. BlueStar® Hydrogen and NextGen Fuel Cell Index

- Currency: USD
  - Approach: Pure-Play (incl. exceptions)
  - Potential market participants: Companies involved in hydrogen energy and fuel cell industries.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 334bln USD
  - Investable market capitalization: 270bln USD
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- Number of constituents of the eligible universe: 25
- Number of constituents of the Index: 25

#### 53. BlueStar® Israel Global Technology Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be incorporated, head quartered or with significant operations in Israel and involved in technology, biotechnology, renewable energy, or defense technology industries.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 152bln USD
- Investable market capitalization: 98bln USD
- Number of constituents of the eligible universe: 66
- Number of constituents of the Index: 60

#### 54. BlueStar® Israel Global Technology North America

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Israeli technology companies listed on exchanges in North America.
- Geographical boundaries: Global exposure.
- Full market capitalization: 139bln USD
- Investable market capitalization: 92bln USD
- Number of constituents of the eligible universe: 49
- Number of constituents of the Index: 49

55. BlueStar® Israel Infrastructure Index

- Currency: ILS
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies must be incorporated, head quartered or with significant operations in Israel and involved in infrastructure and related industries.
- Global boundaries: Must be listed in Israel with significant activities there.
- Full market capitalization: 115bln ILS
- Investable market capitalization: 43bln ILS
- Number of constituents of the eligible universe: 24
- Number of constituents of the Index: 24

56. BlueStar® Machine Learning and Quantum Computing Index

- Currency: USD
- Approach: Global Thematic: Product Offering
- Potential market participants: Companies involved in the development of technology related to machine learning or quantum computing.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 6.2trn USD
- Investable market capitalization: 4.9trn USD
- Number of constituents of the eligible universe: 87
- Number of constituents of the Index: 70

57. BlueStar® Robotics Index

- Currency: USD
  - Approach: Global Thematic: Revenue Exposure and Product Offering
  - Potential market participants: Companies involved in the robotics and
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industrial automation industries

- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 1.9trn USD
- Investable market capitalization: 1.4trn USD
- Number of constituents of the eligible universe: 78
- Number of constituents of the Index: 65

#### 58. BlueStar® Global Robotics & 3D Printing Index

- Currency: USD
- Approach: Global Thematic: Revenue Exposure and Product Offering
- Potential market participants: Companies involved in the robotics, industrial automation and 3D printing industries
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 1.2trn USD
- Investable market capitalization: 858bln USD
- Number of constituents of the eligible universe: 72
- Number of constituents of the Index: 54

#### 59. BlueStar® Solar Energy Industry Index

- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Companies involved in the solar energy industry.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the
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index guide.

- Full market capitalization: 147bln USD
- Investable market capitalization: 101bln USD
- Number of constituents of the eligible universe: 44
- Number of constituents of the Index: 38

#### 60. BlueStar® Top 10 US Banks Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the banking, market making or institutional wealth management industries.
- Geographical boundaries: Must be listed in the US
- Full market capitalization: 1.4trn USD
- Investable market capitalization: 1.1trn USD
- Number of constituents of the eligible universe: 41
- Number of constituents of the Index: 10

#### 61. BlueStar® Top 10 US Listed Alternative Asset Managers Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the management of investments in privately-held companies, real estate or infrastructure projects.
- Geographical boundaries: Must be listed in the US
- Full market capitalization: 185bln USD
- Investable market capitalization: 145bln USD
- Number of constituents of the eligible universe: 44
- Number of constituents of the Index: 10

62. BlueStar® Top 10 US Residential Real Estate Index
- Currency: USD
  - Approach: Pure-Play
  - Potential market participants: Real Estate Investment Trusts that focus on residential real estate.
  - Geographical boundaries: Companies must be listed on a US exchange, and Incorporated in the US.
  - Full market capitalization: 191.44bln USD
  - Investable market capitalization: 126.82bln USD
  - Number of constituents of the eligible universe: 52  
Number of constituents of the Index: 10
63. BlueStar® Total Security Index
- Currency: USD
  - Approach: Global Thematic: Revenue Exposure and Product Offering
  - Potential market participants: Companies involved in the cyber security or defense industries.
  - Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
  - Full market capitalization: 1.4trn USD
  - Investable market capitalization: 956bln USD
  - Number of constituents of the eligible universe: 102
  - Number of constituents of the Index: 89
64. BlueStar® Travel & Vacation Index
- Currency: USD
  - Approach: Global Thematic: Revenue Exposure
  - Potential market participants: Companies involved in the travel industry.
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- Geographical boundaries: Must be listed in the US
- Full market capitalization: 756bln USD
- Investable market capitalization: 549bln USD
- Number of constituents of the eligible universe: 64
- Number of constituents of the Index: 50

65. BlueStar® US Listed E-Brokers and Digital Capital Markets Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the online securities brokerage, market making, or digital asset capital markets industries.
- Geographical boundaries: Must be listed in the US.
- Full market capitalization: 207bln USD
- Investable market capitalization: 148bln USD
- Number of constituents of the eligible universe: 15
- Number of constituents of the Index: 15

66. BlueStar® US Listed Internet Infrastructure Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in internet infrastructure
- Geographical boundaries: Global exposure. Must be listed in the US.
- Full market capitalization: 362bln USD
- Investable market capitalization: 235bln USD
- Number of constituents of the eligible universe: 48
- Number of constituents of the Index: 38

67. BlueStar® US Machine Learning and Quantum Computing Index

- Currency: USD

- Approach: Global Thematic: Product Offering
- Potential market participants: Companies involved in the development of technology related to machine learning or quantum computing.
- Geographical boundaries: Must be listed in the US.
- Full market capitalization: 6.2trn USD
- Investable market capitalization: 4.9trn USD
- Number of constituents of the eligible universe: 87
- Number of constituents of the Index: 70

68. BlueStar® Wind Energy Industry Index

- Currency: USD
- Approach: Pure-Play
- Potential market participants: Companies involved in the wind energy industry.
- Geographical boundaries: Global exposure. Stocks listed on exchanges in hard to access markets may not be eligible for this index, as defined in the index guide.
- Full market capitalization: 380bln USD
- Investable market capitalization: 272bln USD
- Number of constituents of the eligible universe: 28
- Number of constituents of the Index: 22

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7	2.2. Potential Limitations RTS Article 1 No. 3 (a)	The Benchmark Statement shall describe the potential limitations of each Index and	There may be events outside the influence of MarketVector™ that limit the availability of relevant input data for an Index. Examples for possible events are
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circumstances in which the measurement of the market of economic reality may become unreliable. It shall include:

- A description of the circumstances in which the administrator would lack sufficient input data to determine the benchmark in accordance with the methodology.

the temporary closure of a stock exchange, measures imposed by a governmental body, central bank or regulatory or monetary authority like sanctions or the prohibition to trade certain securities.

MarketVector™ policies and procedures consider such situations and provide for measures and steps to be taken to manage respective situations in the best interest of, on one side, the users of the relevant Index or family of Indexes and, on the other side, the integrity of capital markets.

The Index Guide of the relevant Index determines the kind of input data and the prices used for an Index. If a price is not available, the benchmark may cease to provide an accurate representation of the underlying economic reality because in these cases the last available closing price for the relevant constituent will be used to calculate the Index. This will also be the case if the relevant constituents continue to trade on venues that are not eligible for use by the relevant Index, or if they trade over-the counter.

MarketVector™ will not use input data from a contributor if it has any indication that the Contributor does not adhere to its Code of Conduct for Contributors and in such a case shall obtain representative publicly available data.

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8 2.2 Use of discretion  
RTS Art. 1 No. 4

The Benchmark Statement shall describe the controls and rules that govern any exercise of judgement or discretion by the administrator or any contributors in calculating the Index.

The MarketVector™ Sector Indexes Family is administered based on strict rules and methodologies and allows very limited discretion of the administrator throughout the process determining the constituent of the index. No committee and/or individual has the power to exercise discretion if it comes to the selection of the components of an Index.

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It shall also include an outline of each step of the process for any ex post evaluation of the use of discretion, together with a clear indication of the position of any persons responsible for carrying out the evaluations.

Only if input data are or appear to be qualitatively inferior or different sources provide different data, or a situation is not covered by the index rules, MarketVector™ may use discretion according to the following rules that apply for all of MarketVector™ Indexes.

1. As the result of plausibility check of liquidity and size data, ownership structures, revenue and asset breakdowns, corporate action information, dividends, volatility and other secondary data is or appears to be inferior or different in different data sources; or
2. A situation is not covered by the index rules (for example: The number or constituents required by the Index rules is higher than the number of constituents selected according to the Index methodology)
3. The index operations team must analyze if the decision in which it uses discretion is required, appropriate, commensurable and in line with the respective index scope and objective and does reasonably consider in a balance way the interest of users, investors in related products and the integrity of the market.
4. Any decision involving material judgement or discretion and the reasoning must be documented and, in case of material decisions, the respective documentation must be provided to the Independent Oversight Function (“IOF”), senior management and compliance for prior approval of the relevant decision.
5. In case of material decisions, the Independent Oversight Function, senior management and Compliance check if the decision reasonably weights the different interest of the index users, the integrity of the market and other involved parties. It will also be reviewed if the suggested decision is the least disadvantageous measure that equally considers the relevant interests best.
6. In order to avoid similar individual decisions on the use of data in similar cases for the future an update of the index rules, the change of input data sources or providers and/or own data research where possible and reasonable and other possible mitigation measures will be considered.

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9 Index Methodology  
Change  
RTS Art. 1 No. 5

The Benchmark Statement shall specify the public consultation process that applies to any material changes of the Index methodology.

Significant changes and/or amendments to the methodology of an Index of the MarketVector™ Sector Index Family will be subject to public consultation according to a respective MarketVector™ procedure.

An intended change of the Index Methodology will only be published if the internal control and governance bodies including the relevant operations employee, senior management, the Independent Oversight Function and the Compliance Department, have approved it internally.

In case of material changes of the methodology of an Index an advance notice will be published and provided to users. MarketVector™ will generally publicly disseminate a notification related to an Index Guide change 60 days prior to the change on its Website. A shorter period may be applied at MarketVector™ discretion if either the relevant Index has not been licensed to a third party or if the index is not used for a registered financial product in the EU. The notice will describe a clear period that gives the opportunity to analyze and comment upon the impact of such proposed material change. Any material comments received in relation to the Index Methodology change and MarketVector™ response to those comments will be made publicly accessible after any consultation, except where confidentiality has been requested by the originator of the comments.

## B. Additional Information for MarketVector™ Indexes

This Benchmark Statement is part of the entire Index documentation and framework and therefore refers to the documents in the following table. These documents are publicly available on [www.marketvector.com](http://www.marketvector.com). You may need to register in order to get access to the documents.

<b>Privacy Policy</b>	The privacy policy describes how MarketVector™ deals with personal information of its customers, website visitors and other individuals.
<b>Terms of Service</b>	The Terms of Service define the way to register for Index Information and govern the use of Index data, the requirement to enter into licensing agreements for commercial use of the Indexes and Index data, complaints handling and other elements of the relationship with users of the website and clients.
<b>Index Guide</b>	The Index Guide contains the relevant definitions of all key terms relating to the Indexes (Article 27 (2) a BMR). It also describes the Index methodology, key procedures and policies for the change of the Index Methodology and cessation of the Index, the use of discretion, the use of Input Data and the key rules for the Index calculation.
<b>Factsheet</b>	The Factsheet contains current information about Key Features, Index Data, Country and Size Weightings, Sector Weightings, Index Components and Symbols.
<b>History</b>	The History of an Index means the historical pricing data that shows the value of the Index on a specific date in the past.
<b>Components</b>	The Components document shows the current components of the index, incl. identifiers, prices, weighting factors, weights and the index divisor.

**Review** The latest Review document shows the latest changes during the last review. It shows which components were deleted or added to an Index and the weighting factors for the period until the next review is implemented.

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**Trading Calendar** The Trading Calendar describes the non-dissemination days of the MarketVector™ Indexes for the current year.

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**Index Symbols** The Index Symbols document shows the available Index identifiers as ISIN, Sedol, WKN, Bloomberg ticker and others.

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## C. Important Information and Disclaimer

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MarketVector™ reviews this Benchmark Statement on an ongoing basis, at least once every two years. In case of material changes to the methodology of an Index MarketVector Indexes will make an appropriate and timely update of the Benchmark Statement to ensure that it remains correct, precise and complies with the current requirements of investors, Index users as well as rules and regulations.

MarketVector Indexes GmbH is authorized and regulated by the German Federal Financial Services Supervisory Agency (Bundesanstalt für Finanzdienstleistungsaufsicht, BaFin) as a benchmark administrator.

You require a license to launch any product whose performance is linked to the value of a particular MarketVector™ Index, for example, derivatives, bonds, swaps and OTC products and for all use of the MarketVector™ name or name of the MarketVector™ Index in the marketing of the product. See the [Terms of Service](#) for more information. The prices may vary depending on the product and the assets under management. The data comprised in the MarketVector™ Indexes is provided via this website, and via specialized data vendors. However, the subscription to such services does not cover the use of a MarketVector™ Index for a financial product.

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