



INDEX METHODOLOGY

NASDAQ GLOBAL ARTIFICIAL INTELLIGENCE AND BIG DATA™ INDEX

NYGBIG™

INDEX DESCRIPTION

The Nasdaq Global Artificial Intelligence and Big Data Index is designed to track the performance of a selection of companies engaged in the following Nasdaq Sub-Themes: Deep Learning, Image Recognition, NLP, Speech Recognition & Chatbots, Big Data, Cloud Computing and Cybersecurity.

Nasdaq has created a theme and sub-theme classification process to review innovative technologies by analyzing millions of approved patents on a rolling one-year basis. The Index aims to select companies that may be innovative in their space based on their rolling one-year patent data.

SECURITY ELIGIBILITY CRITERIA

Security universe

A security must be included in the Nasdaq Global Disruptive Technology Benchmark™ Index (NYDTB™) as of the Index Reconstitution Effective Date. Please refer to NYDTB's methodology for further information on its constituent selection.

Eligible exchanges

A security must be listed on an exchange named in Appendix A.

Market capitalization eligibility

A security's float-adjusted company market capitalization must be at least \$500 million (USD).

Liquidity eligibility

A security must have a six-month average daily traded value of at least \$2 million (USD).

ESG eligibility

A security's issuer must not be positively identified by Sustainalytics as exhibiting any of the following characteristics:

- Having an ESG Risk Score of 40 or higher.
- Non-compliance with the United Nations Global Compact (UNGC) principles and related international norms and standards, such as the Organization for Economic Cooperation and Development (OECD) Guidelines and United Nations (UN) Guiding Principles.
- Involvement of certain degrees in tobacco products, thermal coal, oil sands, controversial weapons, civilian firearms, small arms and military contracting, nuclear weapons, depleted uranium, adult entertainment or gambling, as described in Appendix B.

Wherein a security's data are unavailable for any field from Sustainalytics that is used to identify the aforementioned characteristics, the security is excluded from consideration for Index inclusion.

Other eligibility criteria

If, at reconstitution, Nasdaq becomes aware that an issuer or security will soon undergo a fundamental change that makes it ineligible, Nasdaq will remove the security from consideration. This includes entering into a definitive merger or acquisition agreement or other pending arrangement that would make it ineligible for Index inclusion, or a filing of bankruptcy or similar protection from creditors.

INDEX CALENDAR

Reconstitution schedule

The Index is reconstituted semi-annually in January and July by applying the constituent selection process.

Reconstitution reference dates

Unless otherwise specified, the Security Eligibility Criteria and Constituent Selection Process are applied using data as of the end of November and May, respectively.

Reconstitution announcement dates

Index Reconstitutions generally are announced five (5) trading days prior to the Reconstitution Effective Date.

Reconstitution effective dates

Index Reconstitutions become effective at market open on the trading day following the third Friday of January and July.

Rebalance schedule

The Index is rebalanced semi-annually in conjunction with the Reconstitution. The Rebalance Effective and Announcement Dates are the same as those of the Reconstitution.

Rebalance reference dates

The constituent weighting process is applied using data as of the end of December and June.

Holiday schedule

The Index is calculated Monday through Friday and does not close for holidays, as it is a Global Index.

Index calculation and dissemination schedule

The Index Value is calculated five (5) days a week, Monday through Friday, once per second from the start of the trading day in Tokyo (09:00:01 Japan Standard Time) until the close of the trading day in New York (17:16:00 Eastern Time).

CONSTITUENT SELECTION

Constituent selection process

Securities meeting all applicable Security Eligibility Criteria are considered for inclusion in the Index. Index constituents are selected according to the following steps.

I. Assignment and Calculation of Nasdaq Scores

Eligible securities are matched with their issuers' Nasdaq Scores for each Nasdaq Sub-Theme represented in the Index (see Appendix C for a complete list of Nasdaq Themes and Sub-Themes). Companies receive scores for each theme in which they're involved, and no scores for themes in which they're uninvolved.

- Pure Score – The extent to which a company is involved in a particular theme relative to all other themes in which it is involved
- Contribution Score – The extent to which a company is involved in a particular theme relative to other companies involved in that theme

II. Comparison Groups Ranking and Exclusion

Securities are partitioned into Comparison Groups, the cross-sections of market cap segment (large, mid and small) and Sub-Theme.

Any security is removed from consideration if its Pure Score and Contribution Score both fall below the 50th percentiles, respectively, of its Comparison Group's scores.

Any security that is not in the Index as of the Reconstitution Reference Date is removed from consideration if its Pure Score and Contribution Score both fall below the 65th percentiles, respectively, of its Comparison Group's scores.

An intensity score is calculated for each security. Intensity score is defined as the number of Sub-Themes in which the issuing company qualifies.

III. Foreign Ownership Exclusion

Any security is removed from consideration if it has a foreign ownership limit of less than 20%.

IV. Pooling and Selection

The securities still considered for Index inclusion are partitioned into two security pools—Primary Subsector securities and Wildcard securities—that are used to determine the Index constituents. The Index contains up to 100 securities; the Index size is dependent on the size of two security pools. Index Securities are selected according to the following steps:

Primary Subsector and Wildcard security designation

- All securities belonging to Primary ICB Subsectors, named in Appendix D, are identified as Primary Subsector securities. All other securities are identified as Wildcard securities. ICB is a product of FTSE International Limited that is used under license.

Primary Subsector security pool designation

- If fewer than 100 Primary Subsector securities exist, all are designated to the Primary Subsector security pool. Otherwise, Primary Subsector securities are ordered by Intensity Score (highest to lowest), average Contribution Score percentile (highest to lowest) and six-month average daily traded value (highest to lowest). Securities within the 100 first-ordered are designated to the Primary Subsector security pool.

Wildcard security selection

- A Wildcard security is removed from consideration if it has an Intensity Score equal to or less than the minimum Intensity Score among securities in the Primary Subsector security pool.
- Wildcard securities are ordered by Intensity Score (highest to lowest), average Contribution Score percentile (highest to lowest) and six-month average daily traded value (highest to lowest). A Wildcard security is selected for Index inclusion if it is ordered within the first five percent (rounded down to the nearest integer) of the number of securities in the Primary Subsector security pool; e.g., if the Primary Subsector security pool consists of 99 securities, the four first-ordered Wildcard securities are selected for Index inclusion.

Primary Subsector security selection

- Up to 100 Primary Subsector securities are selected based on the order determined above such that the Index does not exceed 100 total Index Securities; e.g., if the Primary Subsector security pool consists of 99 securities and four Wildcard securities are selected, the 96 first-ordered Primary Subsector securities are selected.

CONSTITUENT WEIGHTING

Constituent weighting scheme

The Index is a modified float-adjusted company market capitalization-weighted index.

Constituent weighting process

Index Securities' initial weights are determined by dividing each Index Security's float-adjusted company market capitalization by the aggregate float-adjusted company market capitalization of all Index Securities. Initial weights are then adjusted to meet the following constraint:

- No Index Security weight may exceed 4.5%.

For additional information about index weighting, see **Nasdaq Index Weight Calculations**.

INDEX MAINTENANCE

Deletion policy

If, at any time, Nasdaq determines that an Index Security has or will become ineligible for continued inclusion in the Index due to bankruptcy, delisting, or a definitive agreement that would likely result in the security no longer being Index eligible, the security is removed from the Index as soon as practicable and is not replaced. Ordinarily, a security will be removed from the Index at its Last Sale Price. If, however, at the time of its removal the Index Security is halted from trading on its primary listing market and an official closing price cannot readily be determined, the Index Security may, in Nasdaq's discretion, be removed at a zero price. The zero price will be applied to the Index Security after the close of the market but prior to the time the official closing value of the Index is disseminated, which is ordinarily 17:16:00 ET.

Corporate actions

In the periods between scheduled index reconstitution and rebalancing events, individual Index securities may be the subject to a variety of corporate actions and events that require maintenance and adjustments to the Index. Specific treatment of each type of corporate action or event is described in **Nasdaq Corporate Actions and Events Manual – Equities**, which is incorporated herein by reference.

In certain cases, corporate actions and events are handled according to the weighting scheme or other index construction techniques employed. Wherever alternate methods are described, the Index will follow the "Non-Market Cap Corporate Action Method."

Index share adjustments

Index Share changes are not made outside of the selection/weighting process; however, changes arising from stock dividends and stock splits are made to the Index on the evening prior to the effective date of

such corporate actions. In the case of certain spin-offs or rights issuances, the price of the Index Security is adjusted.

ADDITIONAL INFORMATION

Announcements

Nasdaq announces Index-related information via the Nasdaq Global Index Watch (GIW) website at <http://indexes.nasdaqomx.com>.

For more information on the general Index Announcement procedures, please refer to the **Nasdaq Index Methodology Guide**.

Unexpected market closures

For information on Unexpected Market Closures, please refer to the **Nasdaq Index Methodology Guide**.

Calculation types

For information on the Index calculation types as well as the mathematical approach used to calculate the Index(es), please refer to the **Calculation Manual – Equities & Commodities**.

Recalculation and restatement policy

For information on the Recalculation and Restatement Policy, please refer to the **Nasdaq Index Recalculation Policy**.

Data sources

For information on data sources, please refer to the **Nasdaq Index Methodology Guide**.

Contact information

For any questions regarding an Index, please contact the Nasdaq Index Client Services team at indexservices@nasdaq.com.

Index dissemination

Index values and weightings information are available through Nasdaq Global Index Watch (GIW) website at <https://indexes.nasdaqomx.com/> as well as the Nasdaq Global Index FlexFile Delivery Service (GIFFD) and Global Index Dissemination Services (GIDS). Similar to the GIDS offerings, Genium Consolidated Feed (GCF) provides real-time Index values and weightings for the Nordic Indexes.

For more detailed information regarding Index Dissemination, see the **Nasdaq Index Methodology Guide**.

Website

For further information, please refer to Nasdaq GIW website at <https://indexes.nasdaqomx.com/>.

FTP and dissemination service

Index values and weightings are available via FTP on the Nasdaq Global Indexes FlexFile Delivery Service (GIFFD). Index values are available via Nasdaq's Global Index Dissemination Services (GIDS).

GOVERNANCE

All Nasdaq Indexes are managed by the governance committee structure and have transparent governance, oversight, and accountability procedures for the Index determination process. For further details on the Index Methodology and Governance overlay, refer to the **Nasdaq Index Methodology Guide**.

GLOSSARY OF TERMS AS USED IN THIS DOCUMENT

For the glossary of key terms, please refer to the **Nasdaq Index Methodology Guide**.

APPENDIX A: ELIGIBLE EXCHANGES

| Country | Operating Exchange |
|-----------|--|
| AUSTRALIA | ASX - ALL MARKETS |
| AUSTRIA | WIENER BOERSE AG |
| BELGIUM | EURONEXT - EURONEXT BRUSSELS |
| BRAZIL | BM&FBOVESPA S.A. - BOLSA DE VALORES, MERCADORIAS E FUTUROS |
| CANADA | TORONTO STOCK EXCHANGE |
| CHINA | SHANGHAI STOCK EXCHANGE |
| CHINA | SHENZHEN STOCK EXCHANGE |
| DENMARK | NASDAQ COPENHAGEN A/S |
| FINLAND | NASDAQ HELSINKI LTD |
| FRANCE | EURONEXT - EURONEXT PARIS |
| GERMANY | DEUTSCHE BOERSE AG |
| GERMANY | XETRA |
| HONG KONG | HONG KONG EXCHANGES AND CLEARING LTD |
| IRELAND | IRISH STOCK EXCHANGE - ALL MARKET |

| Country | Operating Exchange |
|--------------------------|--|
| ISRAEL | TEL AVIV STOCK EXCHANGE |
| ITALY | BORSA ITALIANA S.P.A. |
| JAPAN | JAPAN EXCHANGE GROUP |
| KOREA, REPUBLIC OF | KOREA EXCHANGE (STOCK MARKET) |
| MALAYSIA | BURSA MALAYSIA |
| MEXICO | BOLSA MEXICANA DE VALORES (MEXICAN STOCK EXCHANGE) |
| NEW ZEALAND | NEW ZEALAND EXCHANGE LTD |
| NORWAY | OSLO BORS ASA |
| PORTUGAL | EURONEXT - EURONEXT LISBON |
| SINGAPORE | SINGAPORE EXCHANGE |
| SOUTH AFRICA | JOHANNESBURG STOCK EXCHANGE |
| SPAIN | BME - BOLSAS Y MERCADOS ESPANOLES |
| SWEDEN | NASDAQ STOCKHOLM AB |
| SWITZERLAND | SIX SWISS EXCHANGE |
| TAIWAN | TAIWAN STOCK EXCHANGE |
| THE NETHERLANDS | EURONEXT - EURONEXT AMSTERDAM |
| UNITED KINGDOM | LONDON STOCK EXCHANGE |
| UNITED STATES OF AMERICA | CBOE GLOBAL MARKETS INC. |
| UNITED STATES OF AMERICA | NASDAQ - ALL MARKETS |
| UNITED STATES OF AMERICA | NEW YORK STOCK EXCHANGE, INC. |

APPENDIX B: PROHIBITED AREAS OF INVOLVEMENT

Companies positively identified by Sustainalytics as being involved in the areas described below are excluded from consideration for Index inclusion. Wherein a security’s data are unavailable for any field from Sustainalytics that is used to identify such involvement, the security is likewise excluded from consideration for Index inclusion.

- Tobacco products – Significant ownership of or any involvement in production; at least five percent involvement in related products/services or in retail
- Thermal coal – Significant ownership in extraction or at least five percent involvement in extraction or in power generation
- Oil sands – Significant ownership in or at least five percent involvement in extraction
- Controversial weapons – Significant ownership in or any involvement in tailor-made and essential or non-tailor-made or non-essential weapons

- Civilian firearms – At least five percent involvement in sales of assault weapons to civilian customers or in sales of non-assault weapons to civilian customers, or at least five percent of revenue from the combined sales of assault and non-assault weapons to retail/distribution customers
- Small arms and military contracting – At least five percent of revenue from the combined sales of assault and non-assault small arms to civilian and retail/distribution customers; small arms to military/law enforcement customers; small arms key components; and weapons, weapon-related products and/or services and non-weapon-related products and/or services for military contracting
- Nuclear weapons and depleted uranium – Any involvement
- Adult Entertainment – At least five percent of revenue from the combined revenue from production and distribution
- Gambling – At least five percent of revenue from the combined revenue from operations, specialized equipment and supporting products/services

APPENDIX C: NASDAQ THEMES AND SUB-THEMES

| Theme | Sub-Theme |
|-----------------------------|-------------------------------|
| Artificial Intelligence | Deep Learning |
| Artificial Intelligence | Image Recognition |
| Artificial Intelligence | NLP |
| Artificial Intelligence | Speech Recognition & Chatbots |
| Data Computing & Processing | Big Data |
| Data Computing & Processing | Cloud Computing |
| Data Computing & Processing | Cyber Security |

APPENDIX D: PRIMARY ICB SUBSECTORS

| ICB Subsector | ICB Subsector Code |
|---|--------------------|
| Electronic Equipment: Gauges and Meters | 50202025 |
| Consumer Services: Misc. | 40201070 |
| Media Agencies | 40301020 |
| Telecommunications Services | 15102015 |
| Computer Services | 10101010 |
| Consumer Digital Services | 10101020 |
| Software | 10101015 |

| ICB Subsector | ICB Subsector Code |
|------------------------------|--------------------|
| Computer Hardware | 10102030 |
| Semiconductors | 10102010 |
| Telecommunications Equipment | 15101010 |

APPENDIX E: METHODOLOGY CHANGE LOG

| Effective Date | Methodology Section | Description or Summary of Changes |
|----------------|--|--|
| July 24, 2023 | Index name | The Index name is changed from Nasdaq Yewno Global Artificial Intelligence and Big Data Index to Nasdaq Global Artificial Intelligence and Big Data Index. |
| July 24, 2023 | Index description | The index description is changed to reflect the replacement of Yewno. Inc. (Yewno) with Nasdaq, Inc. (Nasdaq) as the developer of the theme and sub-theme classification process. |
| July 24, 2023 | Security eligibility criteria: Security universe | The security universe name is changed from Nasdaq Yewno Global Disruptive Technology Benchmark Index to Nasdaq Global Disruptive Technology Benchmark Index. |
| July 24, 2023 | Constituent selection: Constituent selection process | The constituent selection process is changed to reflect the replacement of Yewno with Nasdaq as the calculator of the scores used in selecting Index Securities. |
| July 24, 2023 | Appendix C: Nasdaq themes and sub-themes | Appendix C is changed to reflect the replacement of Yewno with Nasdaq as the provider of eligible themes and sub-themes. |
| June 30, 2023 | Security eligibility criteria: ESG eligibility | The ESG criterion “Non-Compliance of the United Nations Global Compact” is changed to “Non-compliance with the United Nations Global Compact (UNGC) principles and related international norms and standards, such as the Organization for Economic Cooperation and Development (OECD) Guidelines and United Nations (UN) Guiding Principles.” |
| July 18, 2022 | Security Eligibility Criteria: ESG eligibility | An ESG criterion is added to the Index. |
| July 18, 2022 | Constituent weighting | The Index is switched from an equal weight to a modified float-adjusted market capitalization weighting scheme. |

| Effective Date | Methodology Section | Description or Summary of Changes |
|----------------|--------------------------------|---|
| March 9, 2022 | Appendix A: Eligible exchanges | The Moscow Exchange is removed as an eligible exchange. |

DISCLAIMER

Nasdaq may, from time to time, exercise reasonable discretion as it deems appropriate in order to ensure Index integrity, including but not limited to, quantitative inclusion criteria. Nasdaq may also, due to special circumstances, if deemed essential, apply discretionary adjustments to ensure and maintain the high quality of the index construction and calculation. Additionally, Nasdaq utilizes an AI Model trained on a diverse range of data as part of the constituent selection process. While efforts have been made in-line with industry practices to ensure the quality and reliability of the content, there may be limitations, inaccuracies, or biases present. Nasdaq does not guarantee that any Index accurately reflects future market performance. Neither Nasdaq, Inc., its third-party providers, nor any of their respective affiliates (collectively “Corporations”) make any recommendation to buy or sell any security or any representation about the financial condition of any company. Investors should undertake their own due diligence and carefully evaluate companies before investing. The information contained herein is provided for informational and educational purposes only, and nothing contained herein should be construed as investment advice, either on behalf of a particular security or an overall investment strategy. **ADVICE FROM A SECURITIES PROFESSIONAL IS STRONGLY ADVISED.**