

# INDEX GUIDELINE

*SOLACTIVE QUANTUM COMPUTING INDEX*

*Version 1.1*

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## INTRODUCTION

This document (the "**GUIDELINE**") is to be used as a guideline with regard to the composition, calculation and maintenance of the Solactive Quantum Computing Index (the "**INDEX**"). Any amendments to the rules made to the **GUIDELINE** are approved by the **OVERSIGHT COMMITTEE** specified in Section 5.5. The **INDEX** is owned, calculated, administered and published by Solactive AG ("**SOLACTIVE**") assuming the role as administrator (the "**INDEX ADMINISTRATOR**") under the Regulation (EU) 2016/1011 (the "**BENCHMARK REGULATION**" or "**BMR**"). The name "Solactive" is trademarked.

*The text uses defined terms which are formatted with "SMALL CAPS". Such Terms shall have the meaning assigned to them as specified in Section 6 (Definitions).*

**The **GUIDELINE** and the policies and methodology documents referenced herein contain the underlying principles and rules regarding the structure and operation of the **INDEX**. **SOLACTIVE** does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the **INDEX** nor the level of the **INDEX** at any certain point in time nor in any other respect. **SOLACTIVE** strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for **SOLACTIVE** – irrespective of possible obligations to issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the **INDEX**. The publication of the **INDEX** by **SOLACTIVE** does not constitute a recommendation for capital investment and does not contain any assurance or opinion of **SOLACTIVE** regarding a possible investment in a financial instrument based on this **INDEX**.**



# 1. INDEX SPECIFICATIONS

## 1.1. SCOPE OF THE INDEX

Category	Description
Asset Class	Equity
Strategy	The Index intends to track the price movements of different companies with a significant exposure to the Quantum Computing industry. These companies generate a majority of their revenue in one of the following categories: QUANTUM COMPUTING-SPECIFIC COMPANIES, SOFTWARE PLATFORMS, HARDWARE PLATFORMS, PROMISING SECTORS.
Regional Allocation	Developed Markets
Rebalancing Fee	-
Rebalancing Frequency	Semi-annually

## 1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	RIC	BBG ticker
Solactive Quantum Computing Index PR	DE000SLOAVC6	USD	PR*	.SOLQCP	-
Solactive Quantum Computing Index NTR	DE000SLOAVD4	USD	NTR*	.SOLQCN	-
Solactive Quantum Computing Index TR	DE000SLOAVE2	USD	GTR*	.SOLQCT	-

\* PR, NTR, GTR means that the Index is calculated as price return, net total return, gross total return Index as described in the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>

The INDEX is published on the website of the INDEX ADMINISTRATOR ([www.solactive.com](http://www.solactive.com)) and is, in addition, available via the price marketing services of Boerse Stuttgart GmbH and may be distributed to all of its affiliated vendors. Each vendor decides on an individual basis as to whether it will distribute or display the INDEX via its information systems.

Any publication in relation to the INDEX (e.g. notices, amendments to the GUIDELINE) will be available at the website of the INDEX ADMINISTRATOR: <https://www.solactive.com/news/announcements/>.



### 1.3. INITIAL LEVEL OF THE INDEX

The initial level of the INDEX on the 29/06/2020, the START DATE, is 100. Historical values from the 29/06/2020, the LIVE DATE, will be recorded in accordance with Article 8 of the BMR.

### 1.4. PRICES AND CALCULATION FREQUENCY

The level of the INDEX is calculated on each CALCULATION DAY from 9:00 a.m. to 10:50 p.m. CET based on the TRADING PRICES on the EXCHANGES on which the INDEX COMPONENTS are listed. TRADING PRICES of INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the current Intercontinental Exchange (ICE) spot foreign exchange rate. Should there be no current TRADING PRICE for an INDEX COMPONENT, the later of: (i) the most recent CLOSING PRICE; or (ii) the last available TRADING PRICE for the preceding TRADING DAY is used in the calculation.

In addition to the intraday calculation a closing level of the INDEX for each CALCULATION DAY is also calculated. This closing level is based on the CLOSING PRICES for the INDEX COMPONENTS on the respective EXCHANGES on which the INDEX COMPONENTS are listed. The CLOSING PRICES of INDEX COMPONENTS not listed in the INDEX CURRENCY are converted using the 04:00 p.m. London time WM Fixing quoted by Reuters. If there is no 04:00 p.m. London time WM Fixing for the relevant CALCULATION DAY, the last available 04:00 p.m. London time WM Fixing will be used for the closing level calculation.

### 1.5. LICENSING

Licenses to use the INDEX as the underlying value for financial instruments, investment funds and financial contracts may be issued to stock exchanges, banks, financial services providers and investment houses by SOLACTIVE.



## 2. INDEX SELECTION

On each SELECTION DAY, the INDEX ADMINISTRATOR will revise the composition of the INDEX.

In a first step, the SELECTION PARTY determines the INDEX UNIVERSE in accordance with Section 2.1. The INDEX UNIVERSE comprises all those financial instruments which fulfill the INDEX UNIVERSE REQUIREMENTS (as specified in Section 2.1) and will constitute a starting pool from which the components of the INDEX will be selected. Based on this INDEX UNIVERSE, the new composition of the INDEX will be determined by applying the rules outlined in Section 2.2.

Each new INDEX COMPONENT will be assigned a weight as described in Section 2.3.

### 2.1. INDEX UNIVERSE REQUIREMENTS

The INDEX UNIVERSE is comprised of all financial instruments which fulfill the below requirements (the "**INDEX UNIVERSE REQUIREMENTS**"):

- > Listed on an EXCHANGE in one of the following countries: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Hong Kong, Ireland, Italy, Japan, South Korea, Netherlands, Norway, New Zealand, Portugal, Singapore, Spain, Sweden, Switzerland, United Kingdom, United States.
- > SHARE CLASS MARKET CAPITALIZATION of at least USD 750 million.
- > AVERAGE DAILY VALUE TRADED of at least USD 5 million over the past three months up to and including the SELECTION DAY.
- > Companies must generate at least 50% of their revenue in one of the four categories outlined below.
  1. QUANTUM COMPUTING-SPECIFIC COMPANIES
  2. HARDWARE PLATFORMS
  3. SOFTWARE PLATFORMS
  4. PROMISING SECTORS (with the greatest value creation potential): CHEMICALS, ENERGY, FINANCIAL SERVICE PROVIDERS, HEALTHCARE, MEDIA, MOBILITY/TRANSPORTATION, PHARMACEUTICALS, TRADE.

The INDEX ADMINISTRATOR has outsourced part of the determination of the INDEX UNIVERSE to the SELECTION PARTY. Such outsourcing has been made in accordance with the requirements of the BMR (Article 10 BMR).

The determination of the INDEX UNIVERSE is fully rule-based and the SELECTION PARTY cannot make any discretionary decisions.



## 2.2. SELECTION OF THE INDEX COMPONENTS

Based on the INDEX UNIVERSE, the initial composition of the INDEX as well as any selection for an ordinary rebalance is determined on the SELECTION DAY in accordance with the following rules:

- > In the first step the INDEX ADMINISTRATOR calculates the Thematic Score and the Financial Score for each stock in the INDEX UNIVERSE based on the criteria outlined below.

### Thematic Score

The Thematic Score is calculated as the sum of the scores of the criteria described in a. and b., multiplied by the multiplier defined in c.

- a. Number of QUANTUM COMPUTING PATENT filings:

Number of Patents	0	≥1	≥5	≥10	≥20	≥30	≥40	≥50	≥70	≥100
Score	0	10	20	30	40	50	60	70	80	100

- b. Number of VENTURE CAPITAL INVESTMENTS in Quantum Computing

Number of Investments	0	≥1	≥2	≥3	≥4	≥5	≥6	≥7	≥10	≥20
Score	0	10	20	30	40	50	60	70	80	100

- c. Industrial Classification Multiplier

Category	Multiplier
QUANTUM COMPUTING-SPECIFIC COMPANIES	5
SOFTWARE PLATFORMS	4
HARDWARE PLATFORMS	3
PROMISING SECTORS (with the greatest value creation potential)	2

### Financial Score

The Financial Score consists of the five financial key figures stated below:

- a. Free Cash Flow in the last fiscal year (FCF):
- b. Revenue Growth in the last five fiscal years (RG):
- c. Research and Development Expenditures in the last fiscal year (R&D):



d. Profit Margin in the last fiscal year (PM):

e. Cash Position in the last fiscal year (CP):

Each stock receives a score for each of its financial key figures based on the following methodology<sup>1</sup>:

FCF (Mio USD)	RG (%)	R&D (Mio USD)	PM (%)	CP (Mio USD)
> Score	> Score	> Score	> Score	> Score
10	10	10	10	10
50	20	50	20	50
100	30	100	30	100
200	40	200	40	200
500	50	500	50	500
1,000	60	1,000	60	1,000
2,000	70	2,000	70	2,000
5,000	80	5,000	80	5,000
10,000	100	10,000	100	10,000

The Financial Score of each stock is computed as the sum of all scores a stock receives based on its financial key figures.

- > In the second step the Top 20 stocks are selected based on their Thematic Score and Financial Score. The distribution of the Top 20 stocks across the four categories is depicted in the following table:

Category	Number of Firms
QUANTUM COMPUTING-SPECIFIC COMPANIES	10
SOFTWARE PLATFORMS	
HARDWARE PLATFORMS	
PROMISING SECTORS (with the greatest value creation potential)	10

<sup>1</sup> If  $FCF \leq \$10M$ ,  $RG \leq 10\%$ ,  $R\&D \leq 10\%$ ,  $PM \leq 10\%$ ,  $Cash \leq \$10M$ , the stock receives a score of 0.



The Top 20 stocks are select based on the following steps:

A. Selection of the top 10 stocks from the three categories QUANTUM COMPUTING-SPECIFIC COMPANIES, SOFTWARE PLATFORMS and HARDWARE PLATFORMS.

1. Stocks are ranked by the Thematic Score in descending order within each of the three categories. In example, the stock which is ranked number 1 has the highest Thematic Score within the respective category.<sup>2</sup>
2. Based on the ranking in 1., the Top 10 stocks within each of the three categories are selected.
3. Subsequently the Top 10 stocks of each of the three categories are ranked in descending order based on their Financial Score. In example, the stock with the highest Financial Score is assigned rank 1.<sup>3</sup>
4. From the Top 10 stocks the Top 3 of each of the three categories are selected. If there are less than three stocks for one of the categories available, all stocks are selected.
5. The remaining stocks, which have been selected in 2. as the Top 10 but not in 4. as the Top 3, are ranked in descending order across categories, based on their Financial Score.<sup>3</sup>
6. Starting from the highest ranked stock in 5., stocks will be added to the selected stocks in 4. until 10 stocks are reached.

B. Selection of the 10 stocks from the PROMISING SECTOR.

1. Within each of the eight sectors (CHEMICALS, ENERGY, FINANCIAL SERVICE PROVIDERS, HEALTHCARE, MEDIA, MOBILITY/TRANSPORTATION, PHARMACEUTICALS, TRADE) of the PROMISING

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<sup>2</sup> If two or more stocks exhibit the same ranking based on their Thematic Score, they will be ranked according to their Financial Score in descending order. The stock with the highest Financial Score receives the highest ranking (e.g. number 1). If the Financial Score leads to the identical ranking as well, the stocks will be ranked in descending order by their SHARE CLASS MARKET CAPITALIZATION. In example, the stock with the highest SHARE CLASS MARKET CAPITALIZATION will be ranked number 1.

<sup>3</sup> If two or more stocks exhibit the same ranking based on their Financial Score, they will be ranked according to their Thematic Score in descending order. The stock with the highest Thematic Score receives the highest ranking (e.g. number 1). If the Thematic Score leads to the identical ranking as well, the stocks will be ranked in descending order by their SHARE CLASS MARKET CAPITALIZATION. In example, the stock with the highest SHARE CLASS MARKET CAPITALIZATION will be ranked number 1.



SECTOR category, stocks are ranked in descending order based on their Thematic Score. That is, the stock with the highest Thematic Score is ranked number 1.<sup>2</sup>

2. According to the ranking of the stocks within the eight sectors, the Top 4 of each sector are selected.
3. For each sector the Top 4 stocks are ranked by their Financial Score. In example, the stock with the highest Financial Score is assigned rank 1.<sup>3</sup>
4. The Top 1 stock of each of the eight sectors is selected. If there is no stock available for any of the eight sectors, no stock is selected.
5. The remaining stocks, which have been selected in 2. but not in 4., are ranked by their Financial Score in descending order across all sectors.<sup>3</sup>
6. Starting from the highest ranked stock in 5., stocks will be added to the selected stocks in 4. until 10 stocks are reached.

C. The INDEX COMPONENTS are the Top 10 stocks selected in A. and the Top 10 stocks selected in B.

(the "INDEX COMPONENT REQUIREMENTS")

The selection of the INDEX COMPONENTS is fully rule-based and the INDEX ADMINISTRATOR cannot make any discretionary decision.

## 2.3. WEIGHTING OF THE INDEX COMPONENTS

On each SELECTION DAY each INDEX COMPONENT is assigned an equal weight.

At the LIVE DATE of the Index on 29/06/2020, the composition of the Solactive Quantum Computing Index is as follows:

Name	ISIN	CCY	Exchange	Index Weight
Intel Corporation	US4581401001	USD	NASDAQ	5%
International Business Machines Corporation	US4592001014	USD	NYSE	5%
Microsoft Corporation	US5949181045	USD	NASDAQ	5%
Alphabet Inc. Class A	US02079K3059	USD	NASDAQ	5%
Nippon Telegraph and Telephone Corporation	JP3735400008	JPY	Tokyo	5%
Siemens Healthineers AG	DE000SHL1006	EUR	Xetra	5%



Samsung Electronics Co., Ltd.	KR7005930003	KRW	Korea	5%
Airbus SE	NL0000235190	EUR	Euronext Paris	5%
Alibaba Group Holding Ltd. Sponsored ADR	US01609W1027	USD	NYSE	5%
Tencent Holdings Ltd.	KYG875721634	HKD	Hong Kong	5%
Trip.com Group Ltd. Sponsored ADR	US89677Q1076	USD	NASDAQ	5%
Visa Inc. Class A	US92826C8394	USD	NYSE	5%
Toyota Motor Corp.	JP3633400001	JPY	Tokyo	5%
China Petroleum & Chemical Corporation Class H	CNE1000002Q2	HKD	Hong Kong	5%
Amazon.com, Inc.	US0231351067	USD	NASDAQ	5%
Roche Holding AG	CH0012032048	CHF	SIX Swiss	5%
3M Company	US88579Y1010	USD	NYSE	5%
Merck KGaA	DE0006599905	EUR	Xetra	5%
Johnson & Johnson	US4781601046	USD	NYSE	5%
Royal Dutch Shell Plc Class A	GB00B03MLX29	GBP	London	5%



## 3. REBALANCE

### 3.1. ORDINARY REBALANCE

In order to reflect the new selection of the INDEX COMPONENTS determined on the SELECTION DAY (in accordance with Section 2.1 and 2.2) the INDEX is adjusted on the REBALANCE DAY after CLOSE OF BUSINESS.

This is carried out by implementing the weights as determined on the SELECTION DAY.

For more information on the rebalance procedure please refer to the Equity Index Methodology, which is incorporated by reference and available on the Solactive website: <https://www.solactive.com/documents/equity-index-methodology/>

SOLACTIVE will publish any changes made to the INDEX COMPONENTS with sufficient notice before the REBALANCE DAY on the SOLACTIVE webpage under the section "Announcement", which is available at <https://www.solactive.com/news/announcements/>

### 3.2. EXTRAORDINARY REBALANCE

The INDEX is not rebalanced extraordinarily.



## 4. CALCULATION OF THE INDEX

### 4.1. INDEX FORMULA

The INDEX is calculated as a price return, net total return, gross total return, Index.

The calculation is performed according to the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>. The standard index formula stipulates that the level of the INDEX changes based on the change of the prices of its INDEX COMPONENTS taking into account their weight in the INDEX and any currency conversion in case the price of an INDEX COMPONENT is quoted in a currency other than the INDEX CURRENCY.

Any dividends or other distributions are reinvested back into the INDEX COMPONENT paying the dividend or other distribution at the opening of the effective date (the so called ex-date) of the payment of such dividend or other distribution.]

A more detailed description of the mechanics of the index calculation formula can be found in the Equity Index Methodology under Section 1.2.

### 4.2. ACCURACY

The level of the INDEX will be rounded to two decimal places. TRADING PRICES and foreign exchange rates will be rounded to six decimal places.

### 4.3. ADJUSTMENTS

Under certain circumstances, an adjustment of the INDEX may be necessary between two regular REBALANCE DAYS. Such adjustment has to be made if a corporate action (as specified in Section 4.4 below) in relation of an INDEX COMPONENT occurs. Such adjustment may have to be done in relation to an INDEX COMPONENT and/or may also affect the number of INDEX COMPONENTS and/or the weighting of certain INDEX COMPONENTS and will be made in compliance with the Solactive Equity Index Methodology, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>.

SOLACTIVE will announce the INDEX adjustment giving a notice period of at least two TRADING DAYS (with respect to the affected INDEX COMPONENT) on the SOLACTIVE website under the Section “Announcements”, which is available at <https://www.solactive.com/news/announcements/>. The INDEX adjustments will be implemented on the effective day specified in the respective notice.



## 4.4. CORPORATE ACTIONS

As part of the INDEX maintenance SOLACTIVE will consider various events – also referred to as corporate actions – which result in an adjustment to the INDEX between two regular REBALANCE DAYS. Such events have a material impact on the price, weighting or overall integrity of INDEX COMPONENTS. Therefore, they need to be accounted for in the calculation of the INDEX. Corporate actions will be implemented from the cum-day to the ex-day of the corporate action, so that the adjustment to the INDEX coincides with the occurrence of the price effect of the respective corporate action.

Adjustments to the INDEX to account for corporate actions will be made in compliance with the Equity Index Methodology, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/equity-index-methodology/>. This document contains for each corporate action a brief definition and specifies the relevant adjustment to the INDEX variables.

While SOLACTIVE aims at creating and maintaining its methodology for treatment of corporate actions as generic and transparent as possible and in line with regulatory requirements, it retains the right in accordance with the Equity Index Methodology to deviate from these standard procedures in case of any unusual or complex corporate action or if such a deviation is made to preserve the comparability and representativeness of the INDEX over time.

SOLACTIVE considers following, but not conclusive, list of corporate actions as relevant for INDEX maintenance:

- > Cash Distributions (e.g. payment of a dividend)
- > Stock distributions (e.g. payment of a dividend in form of additional shares)
- > Stock distributions of another company (e.g. payment of a dividend in form of additional shares of another company (e.g. of a subsidiary))
- > Share splits (company's present shares are divided and therefore multiplied by a given factor)
- > Reverse splits (company's present shares are effectively merged)
- > Capital increases (such as issuing additional shares)
- > Share repurchases (a company offer its shareholders the option to sell their shares to a fixed price)
- > Spin-offs (the company splits its business activities into two or more entities and distributes new equity shares in the created entities to the shareholders of the former entity)
- > Mergers & Acquisitions (transaction in which the ownership of a company (or other business organizations) are transferred or consolidated with other entities, e.g. fusion of two or more separate companies into one entity)
- > Delistings (company's shares are no longer publicly traded at a stock exchange)
- > Nationalization of a company (effective control of a legal entity is taken over by a state)



> Insolvency

## 4.5. RECALCULATION

SOLACTIVE makes the greatest possible efforts to accurately calculate and maintain its indices. However, errors in the determination process may occur from time to time for variety reasons (internal or external) and therefore, cannot be completely ruled out. SOLACTIVE endeavors to correct all errors that have been identified within a reasonable period of time. The understanding of "a reasonable period of time" as well as the general measures to be taken are generally depending on the underlying and is specified in the Solactive Correction Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/correction-policy/>.

## 4.6. MARKET DISRUPTION

In periods of market stress SOLACTIVE calculates its indices following predefined and exhaustive arrangements as described in the Solactive Disruption Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/disruption-policy/>. Such market stress can arise due to a variety of reasons, but generally results in inaccurate or delayed prices for one or more INDEX COMPONENTS. The determination of the INDEX may be limited or impaired at times of illiquid or fragmented markets and market stress.



## 5. MISCELLANEOUS

### 5.1. DISCRETION

Any discretion which may need to be exercised in relation to the determination of the INDEX (for example the determination of the INDEX UNIVERSE (if applicable), the selection of the INDEX COMPONENTS (if applicable) or any other relevant decisions in relation to the INDEX) shall be made in accordance with strict rules regarding the exercise of discretion or expert judgement.

### 5.2. METHODOLOGY REVIEW

The methodology of the INDEX is subject to regular review, at least annually. In case a need of a change of the methodology has been identified within such review (e.g. if the underlying market or economic reality has changed since the launch of the INDEX, i.e. if the present methodology is based on obsolete assumptions and factors and no longer reflects the reality as accurately, reliably and appropriately as before), such change will be made in accordance with the Solactive Methodology Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.

Such change in the methodology will be announced on the SOLACTIVE website under the Section "[Announcement](https://www.solactive.com/news/announcements/)", which is available at <https://www.solactive.com/news/announcements/>. The date of the last amendment of this INDEX is contained in this GUIDELINE.

### 5.3. CHANGES IN CALCULATION METHOD

The application by the INDEX ADMINISTRATOR of the method described in this document is final and binding. The INDEX ADMINISTRATOR shall apply the method described above for the composition and calculation of the INDEX. However, it cannot be excluded that the market environment, supervisory, legal and financial or tax reasons may require changes to be made to this method. The INDEX ADMINISTRATOR may also make changes to the terms and conditions of the INDEX and the method applied to calculate the INDEX that it deems to be necessary and desirable in order to prevent obvious or demonstrable error or to remedy, correct or supplement incorrect terms and conditions. The INDEX ADMINISTRATOR is not obliged to provide information on any such modifications or changes. Despite the modifications and changes, the INDEX ADMINISTRATOR will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.



## 5.4. TERMINATION

SOLACTIVE makes the greatest possible efforts to ensure the resilience and continued integrity of its indices over time. Where necessary, SOLACTIVE follows a clearly defined and transparent procedure to adapt Index methodologies to changing underlying markets (see Section 5.2 "Methodology Review") in order to maintain continued reliability and comparability of the indices. Nevertheless, if no other options are available the orderly cessation of the INDEX may be indicated. This is usually the case when the underlying market or economic reality, which an index is set to measure or to reflect, changes substantially and in a way not foreseeable at the time of inception of the index, the index rules, and particularly the selection criteria, can no longer be applied coherently or the index is no longer used as the underlying value for financial instruments, investment funds and financial contracts.

SOLACTIVE has established and maintains clear guidelines on how to identify situations in which the cessation of an index is unavoidable, how stakeholders are to be informed and consulted and the procedures to be followed for a termination or the transition to an alternative index. Details are specified in the Solactive Termination Policy, which is incorporated by reference and available on the SOLACTIVE website: <https://www.solactive.com/documents/termination-policy/>.

## 5.5. OVERSIGHT

An oversight committee composed of staff from SOLACTIVE and its subsidiaries (the "**OVERSIGHT COMMITTEE**") is responsible for decisions regarding any amendments to the rules of the INDEX. Any such amendment, which may result in an amendment of the GUIDELINE, must be submitted to the OVERSIGHT COMMITTEE for prior approval and will be made in compliance with the Methodology Policy, which is available on the SOLACTIVE website: <https://www.solactive.com/documents/methodology-policy/>.



## 6. DEFINITIONS

**“AVERAGE DAILY VALUE TRADED”** means, in respect of an INDEX COMPONENT, the sum of DAILY VALUE TRADED over the specified period divided by the number of TRADING DAYS that fall in the specified period.

**“BENCHMARK REGULATION”** shall have the meaning as defined in Section “Introduction”.

**“BMR”** shall have the meaning as defined in Section “Introduction”.

**“CALCULATION DAY”** is every weekday from Monday to Friday.

**“CLOSE OF BUSINESS”** is the calculation time of the closing level of the INDEX as outlined in Section 1.4.

The **“CLOSING PRICE”** in respect of an INDEX COMPONENT and a TRADING DAY is a security's final regular-hours TRADING PRICE published by the EXCHANGE and determined in accordance with the EXCHANGE regulations. If the EXCHANGE has no or has not published a CLOSING PRICE in accordance with the EXCHANGE rules for an INDEX COMPONENT, the last TRADING PRICE will be used.

**“DAILY VALUE TRADED”** means, in respect of an INDEX COMPONENT and a TRADING DAY, the product of (i) the CLOSING PRICE of such INDEX COMPONENT and (ii) the volume traded (measured as a number of shares) of such INDEX COMPONENT on the EXCHANGE during such TRADING DAY.

**“EXCHANGE”** is with respect to the INDEX and every INDEX COMPONENT, the respective exchange where the INDEX COMPONENT has its listing as determined in accordance with the rules in Section 2.

**“GUIDELINE”** shall have the meaning as defined in Section “Introduction”.

**“HARDWARE PLATFORM”**: Companies that are semiconductors and chip manufacturers, assemblers and manufacturers of computers, electronics, network and communication solutions. This includes hardware manufacturers who offer products, solutions and services to both end users and corporate customers. The products can be offered by manufacturers, for example, physically or via the cloud.

**“INDEX”** shall have the meaning as defined in Section “Introduction”.

**“INDEX ADMINISTRATOR”** shall have the meaning as defined in Section “Introduction”.

**“INDEX COMPONENT”** is each security reflected in the INDEX.

**“INDEX COMPONENT REQUIREMENTS”** shall have the meaning as defined in Section 2.2.

**“INDEX CURRENCY”** is the currency specified in the column “Currency” in the table in Section 1.2.

**“INDEX UNIVERSE REQUIREMENTS”** shall have the meaning as defined in Section 2.1.

**“INDEX UNIVERSE”** is the sum of all financial instruments which fulfill the INDEX UNIVERSE REQUIREMENTS.

**“LIVE DATE”** shall have the meaning as defined in Section 1.3.

**“OVERSIGHT COMMITTEE”** shall have the meaning as defined in Section 5.5.

**“PROMISING SECTORS”** are sectors with the greatest value creation potential due to the Quantum Computing applications. In particular, maximization of user utility due to the enormous acceleration of



simulations and calculations. For example, new drugs can be tested digitally for maximum utility by means of Quantum Computing algorithms, development of innovative traffic simulations of different modes of transport in different situations, real-time optimization of securities portfolios, just to name a few. The following sectors promise great potential benefits:

- **“CHEMICALS”**: Companies that offer products, solutions or consulting services in the chemicals sector. Such as manufacturers of basic, intermediate and speciality chemicals. For example, dyes, pigments, industrial gases, petrochemicals, agrochemicals and other organic and inorganic chemicals and commodities.
- **“ENERGY”**: Companies engaged in oil and gas exploration and production as well as companies which provide associated services, such as seismic and drilling contractors, service rig operators, and engineering/construction firms.
- **“FINANCIAL SERVICE PROVIDERS”**: Institutions that offer banking, insurance, investment and real estate related services, such as asset management, financial advisory, securities sales and trading, corporate finance and investment banking.
- **“HEALTHCARE”**: Companies that provide products and services which are designed, developed, and utilized in the promotion of health and well-being, including medical services, health plans and medical devices. For example, manufacturers of medical instruments and machines to diagnose, prevent or treat human disease.
- **“MEDIA”**: Companies that are engaged in the production, publication and distribution of media content such as movies, music, video games, streaming media, graphics, newspaper and radio shows.
- **“MOBILITY/TRANSPORTATION”**: Companies that provide products and services in the field of transportation of people and goods as well as development of infrastructure. These include the construction and maintenance of road and rail connections, logistics, marine and airlines.
- **“PHARMACEUTICALS”**: Companies that offer products, solutions or consulting services related to research, manufacturing and distribution of pharmaceutical drugs. These include, for example, pharmaceuticals, biotechnology and life sciences companies.
- **“TRADE”**: Companies with operating activities related to the exchange of goods and services on all levels of the supply chain. These comprise, ports, brokers and container companies

**“QUANTUM COMPUTING-SPECIFIC COMPANIES”** generate more than 50% of their sales through Quantum Computing related services. These include for example the sale of software licenses and hardware, consulting services, transaction processing fees that are directly related to Quantum Computing solutions or Quantum Computing based transactions.

**“QUANTUM COMPUTING PATENT”**: Patent data is obtained via the API of the Open Patent Service of the European Patent Office (<https://www.epo.org/searching-for-patents/data/web-services/ops.html>). The Open Patent Service provides patents of over 80 countries. Among others, included countries are listed on



the following web pages: <https://www.epo.org/about-us/foundation/member-states.html> and <https://www.epo.org/searching-for-patents/helpful-resources/asian/links.html>.

“**REBALANCE DAY**” is the third Wednesday in February and August. If that day is not a TRADING DAY the REBALANCE DAY will be the immediately following TRADING DAY.

“**SELECTION DAY**” is the first Wednesday in February and August, disregarding any potential change of the REBALANCE DAY.

“**SELECTION PARTY**” is:

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The “**SHARE CLASS MARKET CAPITALIZATION**” is with regard to each of the securities in the INDEX on a SELECTION DAY the share class-specific market capitalization for any security in the INDEX UNIVERSE. It is calculated as the multiplication of the shares outstanding with the CLOSING PRICE of the share class as of the respective SELECTION DAY.

“**SOFTWARE PLATFORM**”: Companies that offer software, data services, internet platforms and consulting services with software relevance. In particular, software solutions for installation on individual computers (on premise), as software-as-a-service in the cloud or through the operation of internet platforms (such as search engines, social networks, CRM solutions, AI solutions, cyber security, big data, standard business solutions, databases, document management and office software). This includes vendors who offer products, solutions and services to both end consumers and corporate customers.

“**SOLACTIVE**” shall have the meaning as defined in Section “Introduction”.

“**START DATE**” shall have the meaning as defined in Section 1.3.

“**TRADING DAY**” is with respect to an INDEX COMPONENT included in the INDEX at the REBALANCE DAY and every INDEX COMPONENT included in the INDEX at the CALCULATION DAY immediately following the REBALANCE DAY (for clarification: this provision is intended to capture the TRADING DAYS for the securities to be included in the INDEX as new INDEX COMPONENTS with close of trading on the relevant EXCHANGE on the REBALANCE DAY) a day on which the relevant EXCHANGE is open for trading (or a day that would have been such a day if a market disruption had not occurred), excluding days on which trading may be ceased prior to the scheduled EXCHANGE closing time and days on which the EXCHANGE is open for a scheduled shortened period. The INDEX ADMINISTRATOR is ultimately responsible as to whether a certain day is a TRADING DAY.

The “**TRADING PRICE**” in respect of an INDEX COMPONENT and a TRADING DAY is the most recent published price at which the INDEX COMPONENT was traded on the respective EXCHANGE.

“**VENTURE CAPITAL INVESTMENTS**” are corporate venture capital invested into privately held Quantum Computing related companies.



# CONTACT

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