

INDEX GUIDELINE

SOLACTIVE SMART CRYPTO ECONOMY 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 Smart Crypto Economy 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 represents the broad value chain of the Crypto Industry from mining up to trading with deep consideration of sensitive diversification. It enables the access to leaders and innovators in the digital assets space as well as crypto currency.
Regional Allocation	Developed Markets [Global]
Rebalancing Fee	-
Rebalancing Frequency	Quarterly

1.2. IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	RIC	BBG ticker
Solactive Smart Crypto Economy Index PR	DE000SLODGG2	USD	PR*	.SOSCRYEP	-
Solactive Smart Crypto Economy Index NTR	DE000SLODGH0	USD	NTR*	.SOSCRYEN	-
Solactive Smart Crypto Economy Index GTR	DE000SLODGJ6	USD	GTR*	.SOSCRYET	-

*PR/NTR/GTR means that the Index is calculated as price return, net total return and 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) 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 25/06/2021, the START DATE, is 100. Historical values from the 25/06/2021, 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 SELECTION PARTY 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**"):

1. Listed on an Exchange in one of the following countries: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Italy, Japan, South Korea, Netherlands, Norway, New Zealand, Portugal, Singapore, Spain, Sweden, Switzerland, United Kingdom, United States of America
2. SHARE CLASS MARKET CAPITALIZATION of at least USD 750 million
3. AVERAGE DAILY VALUE TRADED of at least USD 5 million over the past three months up to and including the Selection Day
4. Companies must belong to the following industry categories:
 - a. CRYPTO MINER
 - b. CRYPTO CHIP DESIGNER, ASSEMBLER & MANUFACTURER
 - c. CRYPTO STOCK EXCHANGES
 - d. CRYPTO PAYMENT PLATFORMS
 - e. BLOCKCHAIN PLATFORMS
 - f. ECOMMERCE PLATFORMS
 - g. INVESTMENT BANKS, RETAIL BANKS & BROKER
 - h. ASSET MANAGER & CUSTODIAN BANKS
5. 21Shares Crypto Basket Index ETP (Ticker: HODL, ISIN: CH0445689208) is part of the INDEX UNIVERSE



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:

1. Each company is assigned a Financial Score which is computed based on 5 financial key figures (Free Cash Flow, Revenue Growth, Research and Development Expenditures, Profit Margin, and Cash Position) using the following scoring tables:

- a) Free Cash Flow (FCF) in million USD in the last fiscal year

FCF	>10	>50	>100	>200	>500	>1,000	>2,000	>5,000	>10,000
Points	10	20	30	40	50	60	70	80	100

- b) Revenue Growth (RG) in the last five fiscal years

RG	>10%	>20%	>30%
Points	10	20	30

- c) Research and Development Expenditures (R&D) in million USD in the last fiscal year

R&D	>10	>50	>100	>200	>500	>1,000	>2,000	>5,000	>10,000
Points	10	20	30	40	50	60	70	80	100

- d) Profit Margin (PM) in the last fiscal year

PM	>10%	>20%	>30%
Points	10	20	30

- e) Cash Position (CP) in million USD in the last fiscal year

CP	>10	>50	>100	>200	>500	>1,000	>2,000	>5,000	>10,000
Points	10	20	30	40	50	60	70	80	100



The Financial Score is computed as the sum of all scores a company receives for each of the 5 financial key figures, based on the scoring tables above. If a financial key figure is too low and does not appear in the corresponding scoring table, a score of 0 is assigned. If two or more stocks exhibit the same ranking based on their Financial Score, they will be ranked according to their SHARE CLASS MARKET CAPITALIZATION in descending order.

2. Within each of the industry categories (as described in 2.1.4), companies are sorted in descending order, according to the Financial Score. For example, the company with the highest Financial Score, within the industry category it has been assigned to, is ranked number one within the corresponding industry category.
3. The top 20 companies are selected according to the ranking of the Financial Score within the corresponding industry category, based on the following distribution:

Industry Categories	Top Ranked Selected
CRYPTO MINER	2
CRYPTO CHIP DESIGNER, ASSEMBLER & MANUFACTURER	3
CRYPTO STOCK EXCHANGES	3
CRYPTO PAYMENT PLATFORMS	3
BLOCKCHAIN PLATFORMS	3
E-COMMERCE PLATFORMS	2
INVESTMENT BANKS, RETAIL BANKS & BROKER	2
ASSET MANAGER & CUSTODIAN BANKS	2

4. If an industry category does not provide the necessary amount of securities, as shown in the table above, the highest ranked security, based on their ranking within the corresponding industry category, from the below industry categories will be selected until the INDEX comprises 20 INDEX COMPONENTS. This process will be repeated until the INDEX comprises 20 INDEX COMPONENTS.
 - 1) CRYPTO CHIP DESIGNER, ASSEMBLER & MANUFACTURER
 - 2) BLOCKCHAIN PLATFORMS
 - 3) CRYPTO PAYMENT PLATFORMS
 - 4) CRYPTO STOCK EXCHANGES



5) ECOMMERCE PLATFORMS

5. The 21Shares Crypto Basket Index ETP is selected as INDEX COMPONENT.

(the "INDEX COMPONENT REQUIREMENTS")

The INDEX consists of 21 INDEX COMPONENTS (20 companies & 1 ETP).

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 the 21Shares Crypto Basket Index ETP is assigned a weight of 25%. The remaining weight will be equally distributed to the remaining INDEX COMPONENTS.



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 website 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 and 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.

For the INDEX, a SELECTION PARTY is used. The determinations of the INDEX UNIVERSE are subject to decisions of the SELECTION PARTY where the exercise of discretion is needed. The SELECTION PARTY has confirmed, that such discretionary decision is performed in accordance with the specifications established by the INDEX ADMINISTRATOR.

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", 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”.

“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.

“REBALANCE DAY” is the 1st Thursday in February, May, August and November. If that day is not a TRADING DAY the REBALANCE DAY will be the immediately following TRADING DAY.

“SELECTION DAY” is 10 Calculation Days prior to 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.

"**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.

DATA RELATED DEFINITIONS

"**CRYPTO MINER**" Crypto mining is an essential part of the crypto industry and value chain. Mining is a validation of transactions. Based on special hardware specialized data processing companies with huge server farms are the typical miners. For this effort, successful miners obtain new cryptocurrency as a reward. The reward decreases transaction fees by creating a complementary incentive to contribute to the processing power of the network. With more people venturing into the world of virtual currency, generating hashes for this validation has become far more complex over the years, with miners having to invest large sums of money on employing multiple high performance ASICs.

"**CRYPTO CHIP DESIGNER, ASSEMBLER, & MANUFACTURER**" are companies in the semiconductor industry specialized in crypto related hardware. Crypto mining hardware has very special requirements in case of the crypto calculations. Therefore special processor designs, types and architectures are necessary. They are preferably based on modern programmable FPGA and ASIC architectures.



“CRYPTO STOCK EXCHANGES” A stock exchange, securities exchange, or bourse is an exchange where stockbrokers and traders can buy and sell digital assets and digital securities. Stock exchanges may also provide facilities for the issue and redemption of such digital assets and digital securities and instruments. With the tokenization of assets, new forms of security issuing, trading and custody services are already emerging in the context of blockchain and crypto technologies.

“CRYPTO PAYMENT PLATFORMS” Typically, a Payment-Service-Provider (PSP) can connect to multiple acquiring banks, card, and payment networks. In many cases, the PSP will fully manage these technical connections, relationships with the external network, and bank accounts and therefore takes care of the technical processing of payment methods for online shops. More and more of these PSPs see Crypto currencies as a further payment option for their customers and offer Crypto Currencies in their payment processes.

“BLOCKCHAIN PLATFORMS” are the infrastructure and backbone of crypto currencies. They offer functionalities for issuing, storing and transferring of digital assets. There are existing many blockchain networks and consortias, also for industry specific use cases with individual programmable suites.

“E-COMMERCE PLATFORMS” E-commerce (electronic commerce) is the activity of electronically buying or selling of products on online services or over the Internet. E-commerce businesses may also employ some or all of the followings:

- > Online shopping for retail sales direct to consumers via Web sites and mobile apps, and conversational commerce via live chat, chatbots, and voice assistants
- > Providing or participating in online marketplaces, which process third-party business-to-consumer (B2C) or consumer-to-consumer (C2C) sales
- > Business-to-business (B2B) buying and selling;
- > Gathering and using demographic data through web contacts and social media
- > Business-to-business (B2B) electronic data interchange
- > Marketing to prospective and established customers by e-mail or fax (for example, with newsletters)
- > Engaging in pretail for launching new products and services
- > Online financial exchanges for currency exchanges or trading purposes.

“INVESTMENT BANKS, RETAIL BANKS & BROKER” conceptioning, offering, distributing, trading, advising and/or handling financial products via their platforms.

“ASSET MANAGER & CUSTODIAN BANKS” The most common usage of the term "asset manager" refers to investment management, the sector of the financial services industry that manages investment funds and segregated client accounts. Asset management is part of a financial company that employs experts who manage money and handle the investments of clients. This is done either actively or passively. A custodian bank, or simply custodian, is a specialized financial institution responsible for safeguarding a brokerage



firm's or individual's financial assets and is not engaged in "traditional" commercial or consumer/retail banking such as mortgage or personal lending, branch banking, personal accounts, Automated Teller Machines (ATMs) and so forth.

CONTACT

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