

# **Euronext Crypto Basket Indices**

# Methodology



November  $4^{\text{th}}$ , 2024

# Version History

Readers can access other versions of the methodology for the Euronext Crpyto Basket Indices online when they become available on Compass Financial Technologies website (www.compass-ft.com).

Date	Version	Change		
05/07/2023 1.0 Met		Methodology Publication		
10/05/2024	1.1	Change of Data Source - Effective on May 10th 2024		
04/11/2024 1.2		Index level computation formula adjustement - Effective on November 15th 2024		

# Table of Contents

1	Introduction	3
2	Data Sources	4
	2.1 Volume Data Providers	4
	2.2 Market Capitalization Data Provider	4
3	Index Underlying Components	5
	3.1 Underlying Components	5
	3.2 Underlying Component Eligibility requirements	5
		6
4	Euronext Crypto Basket Indices	7
	4.1 Euronext Crypto Select Top 25 Index	7
5	Index Calculation	9
	5.1 Business Day	9
	5.2 Index Calculation	9
	5.3 Rounding of Data 1	10
	5.4 Calculation Frequency and Dissemination	10
	5.5 Hard Fork policy	10
	5.6 Market Disruption Adjustments	1
	5.7 Exceptional Circumstances	1
6	Index Governance	12
	6.1 Index Administrator	12
	6.2 Index Calculation Agent	12
	6.3 Index Committees – Supervisor	12
7	Methodology Changes - Maintenance	<b>14</b>
8		4
9		14
10	Potential Limitations	15
11	Cases not covered in rules	15
12	Liability	15
13		17

# 1 Introduction

The Euronext Crypto Basket Indices (the Indices or the Index) are a family of diversified digital asset indices designed with the objective to offer exposure to the cryptoassets space and to its sectors.

The Indices are composed of most representative and liquid cryptocurrencies or tokens satisfying eligible requirements defined in Section 3.2. Weightings are based on multiple criteria including liquidity, market capitalization or other metrics.

The components have to be selected within the Euronext Crypto Indices (ECI) registered as benchmarks under the EU benchmark regulations (BMR).

The Euronext Crypto Basket Indices combine expertise in cryptocurrency and index engineering to offer investors a diversified exposure to the digital asset class.

The Euronext Crypto Basket Indices are part of the Euronext Cryptocurrency Indices family.

The Indices can be accessed online on the Compass Financial Technologies website (www.compass-ft.com), on Euronext website (www.euronext.com), on Bloomberg, Refinitiv and other data vendors.

The Index Administrator and Calculation Agent is Compass Financial Technologies (France).

# 2 Data Sources

### 2.1 Volume Data Providers

The daily volumes are sourced from the eligible exchanges.

### 2.2 Market Capitalization Data Provider

The coin supply figures used to calculate the market capitalization are provided by CoinGecko. (https://www.coingecko.com/).

**CoinGecko:** CoinGecko is a cryptocurrency data aggregation and tracking web site that provides 360 degree overview of digital currencies and provides tools for users to fundamentally analyze the market. In addition to tracking price, volume, and market capitalization, CoinGecko tracks community growth, open-source development, major events and on-chain metrics. It was founded in 2014 and is based in Malaysia.

# 3 Index Underlying Components

### 3.1 Underlying Components

The Euronext Crypto Basket Indices invest in single digital asset crypto indices, called Underlying Components. The prices used to compute the Index are the Underlying Component Closing Prices and the Underlying Component real time prices. They are based on the single coin Euronext Crypto Indices prices. The Euronext Crypto Indices (ECI) have been designed to provide institutional investors with independent and robust cryptocurrency reference prices. Based on a resilient and BMR-ready compliant methodology, they serve as independent and transparent reference prices to value cryptocurrency portfolios or as benchmarks for investors willing to issue investment products tracking cryptocurrencies prices.

More details on the ECI indices including their methodology are available on the Compass website (www.compass-ft.com) or on Euronext website (www.euronext.com).

### 3.2 Underlying Component Eligibility requirements

To be considered as an Eligible Underlying Component, a cryptoasset linked to an ECI needs to satisfy the following criteria:

- Trades in USD
- Is not a stablecoin
- Presents favorable protocol tokenomics (taking into consideration supply issuance, distribution of cryptocurrencies/tokens and any parameter which could affect the behaviour of the cryptocurrency/token)
- Has at least a 3-month history of trading on an eligible exchange
- Has no known security vulnerabilities
- Is traded on at least one of the Eligible Exchanges (or equivalent) and supported by one of the Eligible Custodians (or equivalent), described below (Section 3.3)
- Is approved by the Index Committees as an eligible coin

Outside of exceptional circumstances, Eligible Underlying Components are reviewed every quarter based on eligibility requirements described above.

### 3.3 Eligible Exchanges and Custodians

The lists of Eligible Exchanges and Eligible Custodians as of November 4<sup>th</sup> 2024 are:

Eligible Exchanges				
Bitstamp				
Bitfinex				
Coinbase				
Gemini				
Kraken				
LMAX				

Table 1: Eligible Exchanges

Eligible Custodians				
BitGo				
Coinbase				
Gemini				
Fidelity				

Table 2: Eligible Custodians

# 4 Euronext Crypto Basket Indices

### 4.1 Euronext Crypto Select Top 25 Index

#### Index Description - Motivation

The Euronext Crypto Select Top 25 Index is a diversified digital asset index designed with the objective of offering a broad exposure to the market's top cryptoassets, all sectors included, while capping each component exposure to 30%. Weightings are based on market capitalization.

As the top market capitalization cryptoassets represent great indicators of market's evolution, motivation here is to measure the global trend of the crypto market.

#### Index Start Date

July 26<sup>th</sup>, 2023

#### Index Code

Compass : ECI25	Bloomberg : ENXI25 Index	Refinitiv : .ECI25

#### Index Code Real time

Compass : ERI25 Bloomberg : ENXRTI25 Index Refinitiv : .ERI25

#### **Index Components Selection**

On each Rebalancing Determination Date RD(t), the Selected Underlying Components are defined following the steps below:

- 1. Select Eligible Underlying Components
- 2. Select Eligible Underlying Components meeting the following criteria:

 $MC_{RD(t)-1,k} >= MinMktCap \qquad \& \qquad RMC_{RD(t),k} >= MinMktCap \qquad \& \qquad RTV_{RD(t),k} >= MinVolume$ 

Where,

- $MC_{RD(t)-1,k}$  is the USD Market Capitalization of Eligible Underlying Component k at the calculation date preceding RD(t)
- $RMC_{RD(t),k}$  is the rolling average USD Market Capitalization over the last 30 days of Eligible Underlying Component k, RD(t) excluded
- $RTV_{RD(t),k}$  is the rolling median USD Traded Volume over the last 30 days of Eligible Underlying Component k, RD(t) excluded
- MinMktCap is the Minimum Market Cap threshold equal to 250 million USD
- *MinVolume* is the Minimum Traded Volume threshold equal to 250'000 USD
- *MinVolume & MinMktCap* are set to 1 USD before January 1st, 2020. After this date, the market was liquid enough to apply thresholds defined above.
- 3. For the selected components,  $RMC_{RD(t),k}$  are ranked in descending order
- 4. Then we defined the Selected Underlying Components as the first 25 Eligible Components obtained via the process above

In the unlikely event eligibility criteria are not met for 25 Underlying Components, the Index may be composed of less than 25 Underlying Components.

#### Weightings definition

• Market Capitalization Weights

Market Capitalization Weights,  $w_{MktCap}$ , are computed on every Rebalancing Determination Date using the average Market Capitalization over the last 30 days (RD(t) excluded) for the set of Selected Underlying Components. On each day, Market Capitalization is the USD Market Capitalization based on Circulating Supply provided by CoinGecko. For each Selected Underlying Component *i*, Rebalancing Determination Date RD(t) and the number of Selected Underlying Components N, we have :

$$w_{MktCap,RD(t),i} = \frac{RMC_{RD(t),i}}{\sum_{k=1}^{N} RMC_{RD(t),k}}$$
(1)

• Final Weights

Final Weights,  $w_{final}$ , are defined according to the following steps:

1. First, Primary Weights,  $pw_{final}$ , are defined as the Market Capitalization Weights.

$$pw_{Final,RD(t)} = w_{MktCap,RD(t)} \tag{2}$$

2. Final Weights are then derived from the Primary Weights by applying the following:

Primary Weight exceeding the CapWeight (CapWeight = 30%) are fixed to CapWeight and the excess weight is allocated proportionately to the Selected Underlying Components with a Final Weight superior to 0 and inferior to CapWeight. This process will be repeated iteratively as long as a Final Weight is greater than CapWeight.

#### **Index Rebalancing**

We define R(t) as the Rebalancing Date preceding t and RD(t), the Rebalancing Determination Date, as the third Business Day preceding R(t). R(t) is the third Friday of December, March, June and September. In case of this day not being a Business Day, R(t) will be the first Business Day preceding the 3<sup>rd</sup> Friday.

The Index is rebalanced quarterly on every Rebalancing Date. The list of Selected Underlying Components may change every quarter. New weights and Selected Underlying Components are determined on every Rebalancing Determination Date.

#### 5 Index Calculation

#### 5.1 Business Day

A Business Day means any day other than a Saturday or a Sunday which is also a Euronext trading day.

#### 5.2 Index Calculation

Euronext Crypto Bakset Indices are computed based on the following formula.

$$Index_{t_0} = 100 \tag{3}$$

Else,

$$Index_{t} = Index_{t-1} + \sum_{i \in N_{c,t}} Q_{Final,i,t} \times (P_{i,t} - P_{i,t-1})$$

With,

$$Q_{Final,i,t} = \begin{cases} Index_{t-1} \times \frac{w_{Final,i,RD(t-1)}}{P_{i,t-1}}, & \text{if } R_i(t-1) = R(t-1) \\ Q_{Adj,i,t}, & \text{if } t \text{ is an Index Reconstitution Date and} \\ & i \text{ is impacted by the Index composition change} \\ Q_{Final,i,t-1}, & \text{otherwise} \end{cases}$$

Where,

- $N_{c,t}$  is the set of the Selected Underlying Components of each index on day t
- R(t) is the most recent date in the set  $\{R_i(t), i \text{ being a Selected Underlying Component on } RD(t)$  or on  $RD(RD(t)) \}$
- $R_i(t)$  is with respect to Selected Underlying Components *i* and Business Day *t*, the fifth Business Day strictly succeeding RD(t) and strictly preceding *t* on which the Selected Underlying Components *i* is unaffected by an Market Disruption Event. If such a date does not exist,  $R_i(t)$  is the fifth Business Day strictly following RD(RD(t)) and strictly preceding *t* on which the Selected Underlying Components *i* is unaffected by a Market Disruption Event.
- RD(t) is the most recent Index Rebalancing Determination Date preceding t
- $P_{i,t}$  is the Underlying Component Closing Price representing the USD price of cryptocurrency or token i on day t
- $w_{Final,i,RD(t)}$  is the Final Weight of Selected Underlying Component *i* of each index, on the last Rebalancing Determination Date preceding t
- $Index_t$  is the Index price level on t
- An Index Reconstitution Date is any date outside a Rebalancing Date on which the composition of the basket changes
- $Q_{Adj,i,t}$  is the new quantity of Underlying Component *i* which should apply after the Reconstitution Date

The real time indices price level on day t at time h are calculated as:

$$Index_{t,h} = \sum_{i \in N_{c,t}} Q_{Final,i,t} \times P_{i,t,t}$$

Where,

 $P_{i,t,h}$  is the real time level of the Underlying Component *i* representing the USD price of cryptocurrency or token *i* on day *t* at time *h* 

#### 5.3 Rounding of Data

Weights are rounded to 6 decimals. Index values are computed with all decimals available and are published with a precision of 2 decimals .

#### 5.4 Calculation Frequency and Dissemination

The Euronext Crypto Indices are computed and published on every Euronext trading days (https://www.euronext.com/en/trade/trading-hours-holidays).

Real Time Indices are computed every 15 seconds of each minute, from 07:15 to 22:30 pm CET on every Euronext trading days.

Indices levels are published on the Compass Financial Technologies website (www.compass-ft.com), on Euronext website (www.euronext.com) and are distributed to Bloomberg and Refinitiv under the ticker symbols listed in table 4.

#### 5.5 Hard Fork policy

#### Hard fork policy

A hard fork occurs when a change is made to the transaction validation rules of a crypto asset's underlying blockchain protocol in a way that is not compatible with its earlier version. Nodes that wish to continue to participate are expected to upgrade to the new version of the protocol's software. Usually such a fork is planned and accepted by the overwhelming majority of nodes. However, where the fork is contentious enough that a non-negligible number of nodes continue to run the old version of the software, a chain split occurs.

The Steering Committee will evaluate all upcoming hard forks. The treatment of hard forks will be led by decisions of exchanges with respect to the ticker symbols used to represent the resulting crypto assets and the markets that they maintain. Concretely, suppose some crypto asset traded under ticker COIN is expected to undergo a hard fork resulting in an original chain Chain with crypto asset C and a modified chain Chain' with crypto asset C'. There are a few scenarios to consider:

- C continues to trade under ticker symbol COIN while C' starts trading under a newly-created ticker symbol COIN'. In this case, C continues as a constituent of the Index. C' is not eligible to become a constituent of the Index (as it does not have enough price history) and does not contribute to the Index value. C' may be sold by stakeholders tracking the Index as an excess return; the precise decision of when (or whether) to sell will be a matter of judgment for the tracking investment products.
- C' trades under ticker symbol COIN while C starts trading under a new ticker symbol COIN'. In this case, C' replaces C as a constituent of the Index. The pricing history for C' is taken as being that of C prior to the fork. C is no longer a constituent of the Index, does not contribute to the Index value and may be sold by stakeholders tracking the Index as an excess return.
- There is significant disagreement amongst exchanges as to the ticker symbols that C' and C should trade under. It is expected that this situation would apply to Index constituents only in very rare circumstances. In this case, an extraordinary meeting of the Steering Committee will be organized in order to decide on an appropriate course of action which may include replacing C by the next eligible crypto asset or rebalancing across the remaining constituent crypto assets.

#### Airdrop policy

An "airdrop" occurs when a blockchain project distributes free crypto assets to investors in the hopes of attracting more people to use their platform. Requirements to qualify for an airdrop may vary; in some cases the participant has to hold the crypto asset in their wallet while other times they have to promote the project on an online forum. The Index does not incorporate potential airdrop values in their computation process. Stakeholders tracking the Index may sell valuable airdrops at their earliest convenience, thus contributing to deliver excess returns over the base Index.

#### Staking

A staking reward is granted to holders of a crypto asset when they lock up that asset as collateral to secure fairness when validating transactions or other network actions. Staking rewards require agency on the part of crypto asset holders and also introduce liquidity restrictions since the act of staking includes locking up coins for a period of time. The Index does not incorporate the value of staking rewards in their computation process Stakeholders tracking the Index may use the value of the resulting staking to deliver excess returns over the base Index.

### 5.6 Market Disruption Adjustments

A Market Disruption event occurs when the trading activity of an Index constituent is disrupted or the fair determination of its price is obstructed. Such scenarios take place when:

- The trading of an Index constituent is closed on the specific day on all eligible exchangess
- All eligible exchanges suspend their trading for an Index constituent at a time prior to the scheduled Index published closing time unless the altered closing time was brought to public attention by the index closing time on the trading day prior to the day in question

The occurrence of a Market Disruption Event is determined by the Index Committees.

If a Market Disruption Event occurs during a rebalancing date, the constituents involved are not rebalanced and their respective quantities are equal to those they had on the first business day preceding the Market Disruption Event. The rebalancing period for the involved constituents will be postponed until the next available business day upon which no Market Disruption Event occurs them.

### 5.7 Exceptional Circumstances

In exceptional circumstances, the Index Committees governing the Index may trigger an exceptional rebalancing to adjust the composition if it considers that some of the Selected Underlying Components do break one or more of the requirements defined in Section 3.2

The calculations of the Index is obstructed when there are no price available for one of the Underlying Component ECI at the official time of publication. If no closing price is available for the calculation date t, the Index will use the last available closing price for their Underlying Components.

The ECI methodology outlines management of extraordinary circumstances where data used in the ECI computation is delayed or missing. In the event of failure to retrieve the official closing prices for the Underlying Components, the Index Committees will do its best effort to determine relevant Underlying Component prices from alternative providers that are readily available.

## 6 Index Governance

### 6.1 Index Administrator

Compass Financial Technologies (France) is the Administrator of the Index ("the Index Administrator"). The Index Administrator is responsible for the day-to-day management of the Index and is also responsible for decisions regarding the interpretation of these rules.

### 6.2 Index Calculation Agent

Compass Financial Technologies (France) is the Calculation Agent of the Euronext Crypto Basket Indices. It is responsible for the day-to-day management of Indices computation according to this methodology.

### 6.3 Index Committees – Supervisor

Compass Financial Technologies has established governance functions to review and provide challenges on all aspects of the Indices determination process. Governance functions are managed by the Compass Committees and by the Euronext Crypto Basket Indices Steering Committee.

#### **Compass Oversight Committee:**

The Compass Oversight Committee oversees all areas of the benchmark determination processes. It is responsible for supervising and controlling the Index operations team on all Compass Indices. It is also responsible for:

- 1. Periodic review of incidents
- 2. Making final decisions in case the Compass Index operations team are not capable or allowed to take decisions
- 3. Defining and implementing organisation procedures for the Compass Index operations team
- 4. Defining and overseeing measures that allow for mitigation of operational risks
- 5. Supervising internal or external audit results
- 6. The implementation and supervision of the potential codes of conduct that have to be implemented

Compass, using its own Committees, is responsible for:

- 1. Determining the calculation methodology and the rules governing the publication of the Euronext Cryptocurrency Indices (including the Euronext Crypto Basket Indices)
- 2. Making periodic reviews of the Euronext Cryptocurrency Indices (including the Euronext Crypto Basket Indices) to validate the robustness of the methodology and to analyse the impact of methodology changes
- 3. Adding or deleting exchanges in the Eligible Exchange list after consultation with the Oversight Committee and the Euronext Cryptocurrency Indices Steering Committee

#### **Euronext Crypto Indices Steering Committee:**

The Euronext Crypto Indices Steering Committee will:

- 1. Have the possibility to veto proposed changes regarding the Euronext Cryptocurrency Indices methodology
- 2. Have the possibility to consult Euronext Cryptocurrency Indices stakeholders
- 3. Regularly assess whether Euronext Cryptocurrency Indices offers a reliable and representative view of the market
- 4. Suggest the adding or deleting of exchanges in the Eligible Exchange list and having the possibility to veto proposed changes of this Eligible Exchange list

5. Have the possibility to veto the eligibility of a cryptoasset as a basket Eligible Underlying Component

The Euronext Crypto Indices Steering Committee is composed of members from Compass and may include individuals or representatives of companies, academics, external counsels, or market participants.

The Euronext Crypto Indices Steering Committee assembles every quarter. However, at the request of a member of the committee, the Committee may meet on any other day of the year to discuss potential "market emergency" and "force majeure" events or any other situation, which makes an extraordinary meeting necessary.

All Committee decisions will be published without delay following the Committee decision.

The Euronext Crypto Indices Steering Committee members as of November 2024 are:

- Edouard Mouton, Compass Financial Technologies
- Guillaume Le Fur, Compass Financial Technologies
- David Leblache, Euronext
- Gregory Gautier, Euronext

As of November 15<sup>th</sup>, 2024, Guillaume Le Fur chairs the Euronext Crypto Indices Steering Committee.

# 7 Methodology Changes - Maintenance

This methodology may be supplemented, amended in whole or in part, revised or withdrawn at any time. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the Index is compiled or calculated or affect the Index in another way.

In the absence of exceptional circumstances affecting the Index calculation or methodology, this Methodology is reviewed annually. The review will includes, inter alia, the following points:

- 1. Verify if the methodology and computation are still in line with the original purpose of the Index
- 2. Make sure the quality and quantity of the input data remain sufficient

Changes made to this methodology are published after the review date and implemented on a reasonable time horizon.

Compass Financial Technologies may terminate any of the Indices due to certain extraordinary market circumstances.

Changes or termination will be subject to the review and approval of both Committees which will receive all the information related to the change or termination. In case of material changes, a notice will be provided at least two weeks in advance.

The results of the Steering Committee meetings will be published in a press release on Compass Financial Technologies website and distributed timely to data vendors and major news sources.

# 8 Expert Judgment

The Index is based on written and transparent rules and procedures with the purpose of minimising as much as possible the exercise of discretion and expert judgment.

The Index is built from input data that is not interpolated, extrapolated or adjusted. In case of lack of data, the last available data is employed.

Nevertheless, the exercise of expert judgment may become necessary in case of errors and Index restatements, delayed and missing data, hard forks, airdrops, or unexpected situations arising from market stress.

In the event that expert judgment is exercised, this will be done by resorting to the written procedures reported in the methodology and by communicating the decisions taken to the Steering Committee and the Internal Compliance Function in order to prevent conflicts of interest and to protect the integrity and the independence of the Index determinations. In addition, the interest of the Index users and the market integrity will be taken into account.

### 9 Errors and Recalculations

Even though the process of each Index calculation is completely automated and pre-defined, an error can be discovered after the publication of the Index.

In case of a material error, the Index will be redetermined, and the Index clients will be notified about the error and the date of the publication of the redetermined Index. An error is considered material on the basis of its size, the dates of its discovery and of its occurrence, and the impact of the Index redetermination on the users. The discovery of any error is reported to the Steering Committee.

In the case where a material error is discovered and the Administrator recognises a manipulation or an attempted manipulation of any of the Index level or the input data, it will be reported to the regulator.

# 10 Potential Limitations

The issues presented in the following non-exhaustive list may limit the ability of the Index to represent the market they are intended to measure, the ease of replication by investors, and more generally the usefulness of the Index to users.

- All the markets the Index is meant to measure are volatile. In particular, cryptocurrencies may be subject to much more market movements than traditional asset classes such as stocks and bonds as a consequence of illiquidity, market trends and changes to market structure.
- The input data providers may fail to provide accurate and timely data.
- Cryptocurrency prices are derived from several trading venues, each of which is characterised by a different market structure and the price of a cryptocurrency may sometimes be different across different trading venues. In addition, cryptocurrency exchanges may suffer problems that usually do not affect regulated asset exchanges, such as distributed denial-of-service, trading halt, hacking of private keys, lack of standards comparable to those of regulated exchanges, rapidly evolving technology and uncertain legal frameworks. Finally, the publication of the Index may cease. Should this occur, the regulation regarding user transitions will be followed, but the existence of a suitable substitute is not assured.

# 11 Cases not covered in rules

In cases which are not expressly covered in these rules, operational adjustments will take place along the lines of the aim of every Index. Operational adjustments may also take place if, in the opinion of the Index Administrator, it is desirable to do so to maintain a fair and orderly market in derivatives on the Index and/or this is in the best interests of the investors in products based on the Index and/or the proper functioning of the markets. The Index Administrator will report to the Supervisor if it took a decision about a case which is not specifically covered in the rules for comments and review.

# 12 Liability

The Index Administrator and the Supervisor are not liable for any losses resulting from supplementing, amending, revising or withdrawing the rules for every Index. The Administrator will do everything within its power to ensure the accuracy of the composition, calculation, publication and adjustment of the Index in accordance with relevant rules. However, neither the Index Administrator, nor the Supervisor are liable for any inaccuracy in the Index composition, calculation and the publication of the Index levels, the information used for making adjustments to the Index and the actual adjustments. Furthermore, the Index Administrator and the Supervisor do not guarantee the continuity of the composition of any of the Index, the continuity of the method of calculation of the Index, the continuity of the dissemination of the Index levels, and the continuity of the calculation of the Index.

# Appendix - Euronext Crypto Basket Indices

Euronext Crypto Basket Indices (end of day vendors codes)					
Index	ISIN	Euronext	Bloomberg	Rounding	Rounding
		Refintiv	Code	(official	(publication
		Mnemo		levels)	levels)
Euronext Crypto Select Top 25 Index	NLIX00001544	ECI25	ENXI25	2	2

Table 3: Euronext Crypto Basket Indices - Publication Codes and Rounding policy

Euronext Crypto Basket Indices (real time vendors codes)					
Index	ISIN	Euronext	Bloomberg	Rounding	Rounding
		Refintiv	Code	(official	(publication
		Mnemo		levels)	levels)
Euronext Crypto Select Top 25 Real Time Index	NLIX00001551	ERI25	ENXRTI25	2	2

Table 4: Euronext Crypto Basket Indices - Real time - Publication Codes and Rounding policy

## 13 Disclaimer

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