

# INDEX GUIDELINE

*SOLACTIVE OFI BASKET PRECIOUS METALS STRATEGY  
INDEX*

*Version 1.4*

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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 OFI Basket Precious Metals Strategy 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 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.

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# 1. INDEX SPECIFICATIONS

## 1.1 SCOPE OF THE INDEX

Category	Description
Asset Class	Commodity and SOFR Futures
Strategy	The index is aimed at replicating the performance of a precious metals basket, including gold, silver, platinum and palladium. Weights are 35% for gold and 20% for silver and platinum. The basket is also exposed to the SOFR 3M future contract with 20% weight and to palladium with 5%.

## 1.2 IDENTIFIERS AND PUBLICATION

The INDEX is published under the following identifiers:

Name	ISIN	Currency	Type	RIC	BBG ticker
Solactive OFI Basket Precious Metals Strategy Index	DE000SLA9TP2	EUR	Excess Return	.SOOFBPMS	SOOFBPMS Index

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 08/03/2012, the START DATE, is 100. Historical values from 07/01/2020, the LIVE DATE, will be recorded in accordance with Article 8 of the BMR. Levels of the INDEX published for a period prior to the LIVE DATE have been back-tested.



## 1.4 PRICES AND CALCULATION FREQUENCY

The level of the INDEX is calculated once for each CALCULATION DAY based on the SETTLEMENT PRICES on the EXCHANGES on which the INDEX COMPONENTS are listed.

## 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 AG.



## 2 CALCULATION OF THE INDEX

### 2.1 INDEX FORMULA

The INDEX is calculated as an excess return Index.

The Index level  $I_t$  on each CALCULATION DAY  $t$  is calculated in accordance with the following formula:

If  $t$  is the START DATE:

$$I_t = 100$$

Else:

$$I_t = I_{t-1} * \left( 1 + \frac{EURUSD_{t-1}}{EURUSD_t} * \left( \frac{I_{USD,t}}{I_{USD,t-1}} - 1 \right) \right)$$

Where:

- $I_{t-1}$  The Index level on the CALCULATION DAY immediately preceding  $t$
- $EURUSD_t$  The EUR/USD fx spot fixing published by WM/Reuters at 4pm London time
- $I_{USD,t}$  The USD Index level on CALCULATION DAY  $t$

### 2.2 USD INDEX FORMULA

The USD Index level  $I_{USD,t}$  on CALCULATION DAY  $t$  is calculated in accordance with the following formula:

If  $t$  is the START DATE:

$$I_{USD,t} = 100$$

Else:

$$I_{USD,t} = \sum_{i=1}^5 [CPW1_{i,t} * CP1_{i,t} + CPW2_{i,t} * CP2_{i,t}]$$

Where:

- $CPW1_{i,t}$  CONTRACT PRODUCTION WEIGHT on CALCULATION DAY  $t$  of the LEAD FUTURE of INDEX COMPONENT  $i$
- $CP1_{i,t}$  CLOSING PRICE on CALCULATION DAY  $t$  of the LEAD FUTURE of INDEX COMPONENT  $i$
- $CPW2_{i,t}$  CONTRACT PRODUCTION WEIGHT on CALCULATION DAY  $t$  of the NEXT FUTURE of INDEX COMPONENT  $i$



$CP2_{i,t}$  CLOSING PRICE on CALCULATION DAY  $t$  of the NEXT FUTURE of INDEX COMPONENT  $i$

## 2.3 CONTRACT PRODUCTION WEIGHT FORMULA

The CONTRACT PRODUCTION WEIGHT on CALCULATION DAY  $t$  for an INDEX COMPONENT  $i$  is calculated in accordance with the following formula:

$$CPW1_{i,t} = WA_i * CRW1_{i,t} * \frac{I_{USD,t-1}}{CP1_{i,t-1}}$$

$$CPW2_{i,t} = WA_i * CRW2_{i,t} * \frac{I_{USD,t-1}}{CP2_{i,t-1}}$$

Where:

$WA_i$  WEIGHT ALLOCATION of INDEX COMPONENT  $i$ , see Section 5.1

$CRW1_{i,t}$  CONTRACT ROLL WEIGHT on CALCULATION DAY  $t$  of the LEAD FUTURE of INDEX COMPONENT  $i$

$CRW2_{i,t}$  CONTRACT ROLL WEIGHT on CALCULATION DAY  $t$  of the NEXT FUTURE of INDEX COMPONENT  $i$

## 2.4 CONTRACT ROLL WEIGHT FORMULA

The CONTRACT ROLL WEIGHT on CALCULATION DAY  $t$  for an INDEX COMPONENT  $i$  is calculated in accordance with the following formula:

If  $RS(M_t) \leq t \leq RE(M_t)$ :

$$CRW1_{i,t} = \max \left[ 0, 1 - \frac{BD(RS(M_t), t)}{RD} \right]$$

$$CRW2_{i,t} = 1 - CRW1_{i,t}$$

Else:

$$CRW1_{i,t} = 1$$

$$CRW2_{i,t} = 0$$

Where:

$RS(M_t)$  ROLL START DATE of the same month as of CALCULATION DAY  $t$

$RE(M_t)$  ROLL END DATE of the same month as of CALCULATION DAY  $t$

$BD(t_1, t_2)$  Number of CALCULATION DAYS between  $t_1$  (inclusive) and  $t_2$  (inclusive)

$RD$  Total number of roll days, i.e. 5



## 2.5 CLOSING PRICE FORMULA

The CLOSING PRICE on CALCULATION DAY  $t$  for an INDEX COMPONENT  $i$  is calculated in accordance with the following formula:

$$CP1_{i,t} = \frac{SP1_{i,t}}{CF_i}$$

$$CP2_{i,t} = \frac{SP2_{i,t}}{CF_i}$$

Where:

$SP1_{i,t}$  SETTLEMENT PRICE on CALCULATION DAY  $t$  of the LEAD FUTURE of INDEX COMPONENT  $i$

$SP2_{i,t}$  SETTLEMENT PRICE on CALCULATION DAY  $t$  of the NEXT FUTURE of INDEX COMPONENT  $i$

$CF_i$  CONVERSION FACTOR of INDEX COMPONENT  $i$ , see Section 5.1

## 2.6 LEAD AND NEXT FUTURE DETERMINATION

For each INDEX COMPONENT  $i$  the LEAD FUTURE and NEXT FUTURE are determined on a monthly basis. The following table shows the LEAD FUTURE for each INDEX COMPONENT  $i$  for each month of the year. The NEXT FUTURE for a month is the contract given in the table below for the upcoming month.

Month/Index Component $i$	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Apr	Apr	Jun	Jun	Aug	Aug	Dec	Dec	Dec	Dec	Feb+	Feb+
2	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar+	Mar+
3	Apr	Apr	Jul	Jul	Jul	Oct	Oct	Oct	Jan+	Jan+	Jan+	Apr+
4	Mar	Jun	Jun	Jun	Sep	Sep	Sep	Dec	Dec	Dec	Mar+	Mar+
5	Mar	Jun	Jun	Jun	Sep	Sep	Sep	Dec	Dec	Dec	Mar+	Mar+

A "+" next to the contract month means it is the contract month of the following year.





## 2.7 ACCURACY

The level of the INDEX will be rounded to eight decimal places for calculation purposes and to four decimal places for publication purposes.

## 2.8 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/>.

## 2.9 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.



## 3 MISCELLANEOUS

### 3.1 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.

### 3.2 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.

### 3.3 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.



### 3.4 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/>.

### 3.5 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/>.



## 4 DEFINITIONS

"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 where the EXCHANGE is scheduled to be open for trading of all INDEX COMPONENTS.

The "CLOSING PRICE" shall have the meaning as defined in Section 2.5.

The "CONTRACT PRODUCTION WEIGHT" shall have the meaning as defined in Section 2.3.

The "CONTRACT ROLL WEIGHT" shall have the meaning as defined in Section 2.4.

The "EXCHANGE" is the Chicago Mercantile Exchange.

"GUIDELINE" shall have the meaning as defined in Section "Introduction".

An "INDEX COMPONENT" is any of the futures defined in Section 5.1

"INDEX" shall have the meaning as defined in Section "Introduction".

"INDEX ADMINISTRATOR" shall have the meaning as defined in Section "Introduction".

"INDEX CURRENCY" is the currency specified in the column "Currency" in the table in Section 1.2.

The "LEAD FUTURE" shall have the meaning as defined in Section 2.6.

"LIVE DATE" shall have the meaning as defined in Section 1.3.

The "NEXT FUTURE" shall have the meaning as defined in Section 2.6.

"OVERSIGHT COMMITTEE" shall have the meaning as defined in Section 5.5.

A "ROLL START DATE" is the fifth last CALCULATION DAY of any month.

A "ROLL END DATE" is the last CALCULATION DAY of any month.

The "SETTLEMENT PRICE" in respect of an INDEX COMPONENT is the official settlement price published by the EXCHANGE.

"SOLACTIVE" shall have the meaning as defined in Section "Introduction".

"START DATE" shall have the meaning as defined in Section 1.3.



## 5 APPENDIX

### 5.1 INDEX COMPONENTS

i	Name	Base identifier	Weight Allocation	Conversion Factor
1	Gold Futures	GC	35%	1
2	Silver Futures	SI	20%	1
3	Platinum Futures	PL	20%	1
4	Palladium Futures	PA	5%	1
5 <sup>1</sup>	Eurodollar Futures	ED	5%	400
5 <sup>2</sup>	SOFR Futures	SRA	20%	1

### 5.2 BACKTEST ADJUSTMENTS

Before the launch date of the INDEX, the INDEX was calculated differently as the above described methodology. The following changes are applicable for the calculation of the backtest:

The INDEX was rolled over one day instead of five, and the ROLL START DATE was therefore equal to the ROLL END DATE, which was the first CALCULATION DAY of the month, therefore the following changes to Section 2.4 and 2.6 are applicable for the backtest:

#### 5.2.1 Contract Roll Weight Formula

The CONTRACT ROLL WEIGHT on CALCULATION DAY  $t$  for an INDEX COMPONENT  $i$  is calculated in accordance with the following formula:

If  $S(M_t) \leq t \leq RE(M_t)$ :

<sup>1</sup> Eurodollar Futures have been used in the INDEX up to and including 14<sup>th</sup> March 2022.

<sup>2</sup> SOFR Futures have been used in the INDEX from and including 15<sup>th</sup> March 2022



$$CRW1_{i,t} = 1$$

$$CRW2_{i,t} = 0$$

Else:

$$CRW1_{i,t} = 0$$

$$CRW2_{i,t} = 1$$

Where:

$RS(M_t)$  ROLL START DATE of the same month as of CALCULATION DAY t

$RE(M_t)$  ROLL END DATE of the same month as of CALCULATION DAY t

## 5.2.2 Lead and Next Future Determination

Month/Index Component i	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Feb	Apr	Apr	Jun	Jun	Aug	Aug	Dec	Dec	Dec	Dec	Feb+
2	Mar	Mar	May	May	Jul	Jul	Sep	Sep	Dec	Dec	Dec	Mar+
3	Apr	Apr	Apr	Jul	Jul	Jul	Oct	Oct	Oct	Jan+	Jan+	Jan+
4	Mar	Mar	Jun	Jun	Jun	Sep	Sep	Sep	Dec	Dec	Dec	Mar+
5	Mar	Mar	Jun	Jun	Jun	Sep	Sep	Sep	Dec	Dec	Dec	Mar+

## 5.3 PALLADIUM WEIGHT ADJUSTMENT

The change of weights of Palladium and SOFR futures was implemented over a 30 day period with increases/decreases of 0.5% per day, starting on COB 10/04/2024 and ending on 22/05/2024.



## 6 HISTORY OF INDEX CHANGES

Version	Date	Description
1.2	<i>17 January 2020</i>	Index Guideline creation ( <i>initial version</i> )
1.3	<i>21 February 2022</i>	Switched fifth index component from Eurodollar Futures to SOFR Futures on 14th March 2022 close
1.4	22 January 2024	Switched weight of palladium and SOFR futures starting on 10 <sup>th</sup> April 2024

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