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## Bloomberg France Value Opportunities 2022 Index Methodology

September 2022

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#### Introduction

The Bloomberg France Value Opportunities 2022 indices are designed to represent a fixed selection of twelve large French companies exhibiting strong value characteristics and which are offering attractive fundamentals relative to their peers based on their latest financial disclosures reflecting trailing 12 months data taken as of August 2022.

The Bloomberg France Value Opportunities 2022 Decrement 50 Point Index and the Bloomberg France Value Opportunities 2022 Decrement 5% Index are designed to represent the performance of the Bloomberg France Value Opportunities 2022 Index from which a predetermined fee is withdrawn on daily basis. The predetermined fee is in the form of index points or index percentage deducted from the underlying Total Return Index and Net Return Index respectively.

#### **Section 1: Overview**

Name		nberg France rtunities 2022	Bloomberg France Value Opportunities 2022 Decrement Index				
Ticker	FRVAL22P	FRVA22TR	FRVAL22E	FRVAL22T			
ricker	Index	Index	Index	Index	Index		
Return Type	Price	Total	Net	Decrement	Decrement		
	Return Return		Return	5%	50 Points		
Currency	EURO						
Inception Date	September 2022						
Base Date	March 30, 2015						
Publication	Weekdays						

The below table shows the parameters applied to calculate the Bloomberg France Value Opportunities 2022 Decrement 50 Point Index:

Decrement Index Ticker	Decrement Index Name	Decrement Type	Decrement Point	Index Base Date	Index Base Value	Underlying Index Ticker	Underlying Index	Underlying Index Currency	Day Count Convention
FRVAL22T Index	Bloomberg France Value Opportunities 2022 Decrement 50 Points Index	Fixed Point	50	30- Mar15	1132.13	FRVA22TR Index	Bloomberg Bloomberg France Value Opportunities 2022 Total Return Index (EUR)	EURO	365

#### **Section 2: Eligibility**

#### **Equity Universe**

In order to be eligible for the Bloomberg France Value Opportunities 2022 Indices, a security must be in the Bloomberg France Large Cap Index.

#### **Sectors**

The Bloomberg France Value Opportunities 2022 Indices are seeking exposure to companies with value style characteristics. To be part of the Index, companies must be classified in the following Industries as per the Bloomberg Industry Classification System (BICS):

- Communications
- Consumer Discretionary
- Consumer Staples
- Energy

- Financials
- Industrials
- Materials
- Utilities

#### **Section 3: Selection**

To be eligible to be an Index member, a company must offer attractive fundamentals relative to their peers based on their recent financial disclosures reflecting trailing 12 months data taken as of August 2022.

Fundamentals and attributes considered for the selection are: EBITDA / EV, Book-to-price ratio, sector diversification and free float market capitalization.

Based on the eligible universes and the selection criterias above, the selected companies are as follows:

Index Members	Ticker	Sector		
ORANGE	ORA FP Equity	Communications		
MICHELIN (CGDE)	ML FP Equity	Consumer Discretionary		
RENAULT SA	RNO FP Equity	Consumer Discretionary		
CARREFOUR SA	CA FP Equity	Consumer Staples		
TOTALENERGIES SE	TTE FP Equity	Energy		
BNP PARIBAS	BNP FP Equity	Financials		
CREDIT AGRICOLE SA	ACA FP Equity	Financials		
AXA SA	CS FP Equity	Financials		
BOUYGUES SA	EN FP Equity	Industrials		
COMPAGNIE DE SAINT GOBAIN	SGO FP Equity	Materials		
VEOLIA ENVIRONNEMENT	VIE FP Equity	Utilities		
ENGIE	ENGI FP Equity	Utilities		

#### **Section 3: Index Calculation**

This Methodology should be read in conjunction with the <u>Bloomberg Decrement Index Calculation</u> <u>Methodology</u> for details on index calculation, input data, ESG Disclosure and exercise of discretion.

#### **Section 4: Weighting**

The Index is equal weighted. The weights are reset quarterly.

#### **Section 5: Maintenance**

To ensure that the Index accurately reflects the aggregate performance of its constituent members, the index member's weights must be rebalanced periodically and maintained on a daily basis for corporate actions.

Index members and weights can be found using <ticker> Index MEMB <GO>

#### Index Review

The indices are rebalanced quarterly in line with the Bloomberg Global Equity Index Index Review schedule in the months of March, June, September and December.

Each Index Rebalancing follows a weekday calendar. Should an Index Rebalancing fall on a NYSE exchange holiday, it will be postponed to the next business day.

#### Quarterly Index Rebalancing

Index Shares, and Tilt factor are updated on a quarterly basis on the 2<sup>nd</sup> Wednesday of March, June, September and December (Effective Date), using data as of one day of the last week of January, April, July and October (Selection Date).

Changes are announced with 10 full business day advance notification (Announcement Date).

Weights are tilted using closing market prices as of one week prior to the Announcement Date.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Selection Date	Last			Last			Last			Last		
Selection Date	Week			Week			Week			Week		
Announcement		Last			Last			Last			Last	
Date		Wed			Wed			Wed			Wed	
Effective Date			2 <sup>nd</sup>									
Effective Date			Wed			Wed			Wed			Wed

#### **Corporate Actions**

Refer to the <u>Bloomberg Global Equity Non-Market Cap Weighted Indices - Corporate Action Methodology</u> for the general treatment of corporate actions, unless stated otherwise in the sections below.

Past and upcoming corporate actions at security level can be found using **<ticker> CACS <GO>** and **<ticker> DVD <GO>** functions on the Bloomberg Terminal.

#### Spin-off

Child being spun-off from an Index member is added on the ex-date and is removed from the Index at the open of the 5th trading from the ex-date.

#### IPO

Newly listed Securities are not eligible for fast-track addition to the Index.

#### Replacement Policy

An Index member being acquired by a non-Index member is not replace at the time of the event or at a future Index Rebalancing.

#### Section 7: Stakeholder engagement, risks and limitations

#### Stakeholder engagement

BISL is in regular and ongoing engagement with its users through various channels, including via help desks, sales personnel, and direct communication with product personnel. To help ensure that the Index remains an accurate representation of Global Equities defined in the methodology, BISL endeavors to meaningfully incorporate these engagements into improvements in processes and service. Prior to any change that might meaningfully impact users, BISL consults more broadly with stakeholders, where appropriate, before a recommendation is presented to the Product, Risk & Operations Committee ("PROC") for approval. This concept of shared ownership enables BISL to produce the most relevant Index and helps ensure responsiveness to user needs.

#### **Risks**

The following is a summary of certain risks associated with the Index but is not meant to be an exhaustive list of all risks associated with the Index. Although the Index is designed to be representative of the markets it is measuring, it may not be representative of every use case. There is also inherent, though transparent, judgment in its construction, as outlined in this Methodology. The Index is designed for general applicability and not to address the individual circumstances and needs of users. BISL does not advise about the usefulness of the Index to a particular circumstance; users are therefore encouraged to seek their own counsel for such matters. This Methodology is subject to change, which may impact its usefulness to users. Although efforts will be made to alert users of any change, every individual user may not be aware of them. Such changes may also significantly impact the usefulness of the Index. BISL may also decide to cease publication of this Index. BISL maintains internal policies regarding user transitions, but no guarantee is given that an adequate alternative is available generally or for a particular use case. Markets for stocks, as with all markets, can be volatile. As the Index is designed to measure this market, it could be materially impacted by market movements, thus significantly affecting the use or usefulness of the Index for some or all users. Also, certain equity markets are less liquid than others – even the most liquid markets may suffer periods of illiquidity. Illiquidity can have an impact on the quality or amount of data available to BISL for calculation and may cause the Index to produce unpredictable results.

The decrement feature reduces the Index value. Such decrement represents a predetermined reduction relative to the return of the Underlying Index.

#### **Limitations of the index**

Though the Index is designed to be representative of the markets it measures or otherwise aligns with its stated objective, it may not be representative in every case or achieve its stated objective in all instances. It is designed and calculated strictly to follow the rules of this Methodology, and any Index level or other output is limited in its usefulness to such design and calculation.

Markets can be volatile, including those market interests that the Index measures or upon which the Index is dependent to achieve its stated objective. For example, illiquidity can have an impact on the quality or amount of data available to the administrator for calculation and may cause the Index to produce unpredictable or unanticipated results.

In addition, market trends and changes to market structure may render the objective of the Index unachievable or to become impractical to replicate by investors.

In particular, the Index measures global equity markets. As with all equity investing, the Index is exposed to market risk. The value of equities fluctuate with the changes in economic forecasts, interest rate policies established by central banks and perceived geo-political risk. The Index does not take into account the cost of replication and as a result a tracking portfolio's returns will underperform the Index with all else equal. As the Index is designed to measure those markets, it could be materially impacted by market movements, thus significantly impacting the use or usefulness of the fixings for some or all users.

In addition, certain sub-indices may be designed to measure smaller subsets of the Index such as specific styles, size, and sector. Some of these sub-indices have very few qualifying constituents and may have none for a period of time. During such period, the sub-index will continue to be published at its last value, effectively reporting a 0% return, until new constituents qualify. If no constituents are

expected to qualify (due to changes in market structure and other factors), the sub-index may be discontinued. In such an event, this discontinuation will be announced to index users.

#### Section 8: Benchmark oversight and governance

#### Benchmark governance, audit and review structure

BISL uses two primary committees to provide overall governance and effective oversight of its benchmark administration activities:

- The PROC provides direct governance and is responsible for the first line of controls over the
  creation, design, production and dissemination of benchmark indices, strategy indices and fixings
  administered by BISL, including the Index. The PROC is composed of the personnel with significant
  experience or relevant expertise in relation to financial benchmarks. Meetings are attended by
  Legal & Compliance personnel. Nominations and removals are subject to review by the BOC,
  discussed below.
- The oversight function is provided by BISL's Benchmark Oversight Committee ("BOC"). The BOC is
  independent of the PROC and is responsible for reviewing and challenging the activities carried
  out by the PROC. In carrying out its oversight duties, he BOC receives reports of management
  information from members of the PROC as well as Legal & Compliance members engaged in
  second level controls.
- In addition, the BISL board of directors is composed of senior executives a majority of which are independent of BISL and is empowered to set the strategy, objectives, and overall direction of BISL, and oversees and monitors BISL's decision-making.

On a quarterly basis, the PROC reports to the BOC on governance matters, including but not limited to client complaints, the launch of new benchmarks, operational incidents (including errors & restatements), major announcements and material changes concerning the benchmarks, the results of any reviews of the benchmarks (internal or external) and material stakeholder engagements.

#### Index and data reviews

BISL reviews the Methodology on a periodic basis, and at least annually, to determine whether it continues to:

- (i) be robust and reliable;
- (ii) have clear rules, including regarding discretion;
- (iii) be rigorous, continuous and capable of validation;
- (iv) be resilient and ensures the Index can be calculated in the widest range of possible circumstances, without compromising its integrity; and
- (v) be traceable and verifiable.

In doing so, BISL will assess whether the Index continues to represent the market that it is intended to measure. More frequent reviews may result from extreme market events and/or material changes to the underlying market. Non-exhaustive examples of extreme market events include trading events such as trading interruptions or unexpected market closures, resulting in unusual market illiquidity or market volatility; exchange closures, government interventions, a pandemic or a natural catastrophe resulting in exceptional periods of stress.

Criteria for data inputs include reliable delivery and active underlying markets. Whether an applicable market is active depends on whether there are sufficient numbers of transactions (or other indications of price, such as indicative quotes) in the applicable constituents (or similar underlying constituent elements) that a price (or other value, as applicable) may be supplied for such constituent(s).

Other than as set forth in this Methodology (read in conjunction with the <u>Bloomberg Global Equity Index Methodology</u>), there are no minimum liquidity requirement for Index constituents and/or minimum requirements or standards for the quantity or quality of the input data. The review will be conducted by product managers of the Index in connection with the periodic rebalancing of the Index

or as otherwise appropriate. Please see the <u>Bloomberg Global Equity Index Methodology</u> for further information on calculation of the Index in the event of market disruption.

Any resulting change to this Methodology will be subject to the review of the PROC under the oversight of the BOC, each of which committees shall be provided all relevant information and materials it requests relating to the change. Details regarding the PROC and BOC are described above. Any relevant changes will be reflected and tracked in updated versions of this Methodology.

BISL will consult with users of the Index on changes to the Methodology and seek user input. The stakeholder engagement will set forth the rationale for any proposed changes (including whether the representativeness of the Index or its appropriateness as a reference for financial instruments or contracts would be at risk if the proposed changes are not made), the key elements of the Methodology that would, in BISL's view, be affected by the proposed change, as well as the timeframe and process for responses. BISL will provide at least two weeks' notice prior to any change going into effect. In the event of exigent market circumstances or if required by law or regulation, this period may be shorter. Subject to requests for confidentiality, stakeholder feedback and BISL's responses will be made accessible upon request.

#### Internal and external reviews

BISL's Index administration is also subject to its Legal & Compliance function, which periodically reviews various aspects of its businesses to determine whether it is adhering to applicable policies and procedures, and assess whether applicable controls are functioning properly. In addition, BISL may from time to time appoint an independent external auditor with appropriate experience and capability to review adherence to benchmark regulation and the IOSCO Principles. The frequency of such external reviews depends on the size and complexity of the operations and the breadth and depth of Index use by stakeholders. For the Indices, BISL anticipates an external review to be conducted every two years.

#### **Expert judgement**

The Index is rules-based, and its construction is designed to consistently produce values without the exercise of expert judgment or discretion. Nevertheless, BISL may use expert judgment or discretion with regards to the following:

- Index restatements
- Extraordinary circumstances during a market emergency
- Data interruptions, issues, and closures
- Significant acquisitions involving a non-Index company

When expert judgment or discretion is required, BISL undertakes to be consistent in its application, with recourse to written procedures outlined in this Methodology and internal procedures manuals. In certain circumstances exercises of expert judgment or discretion are reviewed by senior members of BISL management and Legal & Compliance teams, and are reported to the PROC, BISL's governance committee, which operates under the supervision of BISL's oversight function, the BOC. BISL also maintains and enforces a code of ethics to prevent conflicts of interest from inappropriately influencing index construction, production, and distribution, including the use of expert judgment or discretion.

#### **Data providers and data extrapolation**

The Index is rules-based, and its construction is designed to consistently produce Index levels without the exercise of discretion. The Index is produced without the interpolation or extrapolation of input data.

In addition, BISL seeks to avoid contributions of input data that may be subject to the discretion of the source of such data and instead seeks to use input data that is readily available and/or distributed for a number of non-index or benchmark creation purposes. Accordingly, the index requires no 'contributors' to produce and no codes of conduct with any such sources are required.

#### **Conflicts of interest**

The Index confers on BISL discretion in making certain determinations, calculations and corrections from time to time. In making those determinations, calculations and corrections, BISL has no obligation to take the needs of any product investor or any other party into consideration. BISL is committed to avoiding and, where necessary, managing actual or potential conflicts of interest in the BISL decision-making process and has established a Conflicts of Interest Policy to minimize or resolve actual or potential conflicts of interest. BISL does not create, trade or market products.

#### **Restatement policy**

BISL strives to provide accurate calculation of its indices. However, to the extent a material error in index levels is uncovered following publication and dissemination, a public notification will be made alerting of such error and the expected date of a revised publication, if warranted.

An error to an equity Index in excess of 3 basis point over one day will automatically be reviewed for restatement. If the Index in error is a Primary Index (listed below) and has occurred in the last 2 business days, a restatement will be made for all impacted indices. Errors occurring beyond the last 2 business days will be evaluated on a case-by-case basis.

Real-time indices are not considered for restatement, all real-time dissemination is considered indicative.

The following factors will be reviewed to determine whether to restate. Not all conditions need to be present to warrant a restatement, and certain factors may be more determinative than others depending on the circumstances of the given error.

- The relative importance of the data field impacted by the error;
- When the error occurred and when it was discovered;
- The number of indices and sub-indices affected;
- Whether the impacted indices are linked to tradable products;
- The magnitude of the error;
- The burden of restatement on client re-processing relative to the impact of the error;
- The impact of the restatement on analytical tools.

Event	Action (If discovered within 2 business days)
Missed corporate action	
Spin-off	
Regular cash dividend	
Special cash dividend	Restate indices and reissue file
Stock split	
Stock dividend, bonus	
Mergers & acquisition	
Delisting	Update made the next business day; no restatement and no reissuance of
Reclassification	files
Change in listing	
IPO incorrectly added	Update made at next rebalance
Rebalance	
Incorrect add	
Incorrect removal	Unless the error is discovered during pro-forma period, update will be made at next rebalance
Share changes	

### **Methodology Book Changes**

Date	Update
September 2022	Index creation

#### **Accessing the Data**

#### Bloomberg Terminal®

Bloomberg indices are the benchmarks of choice for capital markets investors.

- IN <GO> The Bloomberg Index Browser displays the latest performance results and statistics for the indices as well as history. IN presents the indices that make up Bloomberg's global, multi-asset class Index families into a hierarchical view, facilitating navigation and comparisons. The "My Indices" tab allows a user to focus on a set of favorite indices.
- PORT <GO> Bloomberg's Portfolio & Risk Analytics solution includes tools to analyze the risk, return, and current structure of indices. PORT includes tools to analyze performance of a portfolio versus a benchmark as well as models for performance attribution, tracking error analysis, value-at-risk, scenario analysis, and optimization.
- DES <GO> The Index description page provides transparency into the current and projected Index universe including membership information, aggregated characteristics and returns, and historical data.

## Bloomberg Indices Website bloomberg.com/bloombergindices

The index website makes available limited Index information including:

- Index methodology and factsheets
- Current performance numbers for select indices

#### Index Licensing

Bloomberg requires an index data license for services and products linked to the indices. Examples include:

- Exchange-traded index products
- OTC products
- Index or constituent-level redistribution
- Custom index solutions

#### Take the next step.

For additional information, press the <HELP> key twice on the Bloomberg Terminal™.

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