



# NASDAQ-100 FUTURES DEFINED VOLATILITY

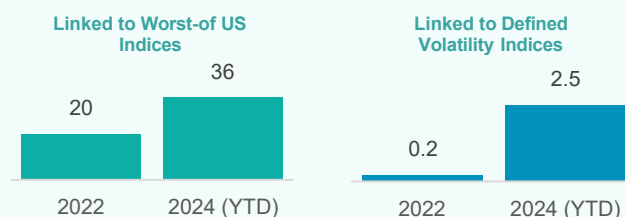
Bloomberg ticker: NXQDV356 Index

For informational purposes only – not intended for further distribution. For Broker Dealers and Registered Investment Advisors in the US only, not for use with retail investors

## Market Overview and Opportunity

Post-COVID market conditions, characterized by lower rates and reduced volatility, have worsened pricing conditions for many callable notes. **This shift has created a significant opportunity for the growth of defined volatility indices** (see chart on the right). The benefits of using these include pricing consistency and reduced reinvestment risk, as well as simplicity and transparency with a single underlying. Note that these may increase drawdowns due to leverage and typically higher volatility compared to regular broad-based benchmarks.

### Issuance volumes for the U.S. market in Billions USD



Source: BNP Paribas, for illustrative purposes only. 2024 YTD until end-September.

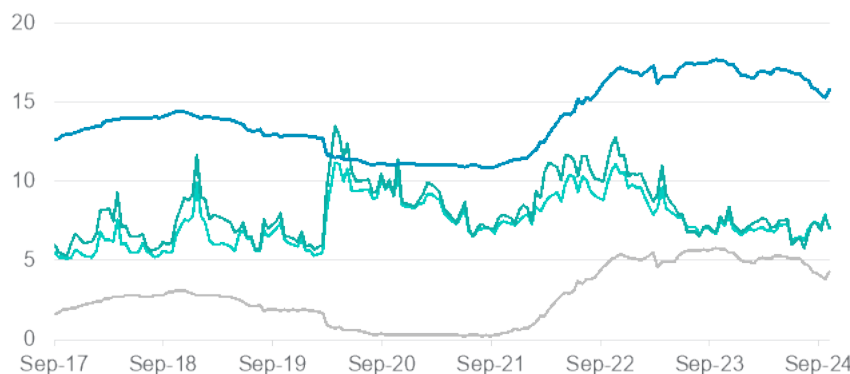
## Hypothetical Backtested 3-year Callable Yield Notes Coupons with 70/70 EKI<sup>1</sup>/Coupon Barrier

(daily simulations on notes issued from 6 Sep 2017 to 9 Oct 2024, and maturing from 6 Sep 2020 to 9 Oct 2027)<sup>2</sup>

### Indicative Terms

- **Type:** Callable Yield Notes
- **Maturity:** 3 Years
- **Reoffer:** 97%
- **Autocall Barrier:** 100%
- **EKI<sup>1</sup>/Coupon Barrier:** 70%
- **Observation Frequency:** Quarterly
- **Non-callable Period:** 6 Months

### Hypothetical Backtested Coupons vs Benchmark Baskets<sup>2</sup>

**Nasdaq-100 Futures  
35% Defined  
Volatility 6%  
Decrement****Worst of S&P 500,  
Russell 2000,  
EURO STOXX 50****Worst of S&P 500,  
Russell 200,  
Nasdaq-100****BNP Paribas'  
Equivalent  
Fixed-Coupon  
(Same Duration)**

## Hypothetical Backtested 3-year Callable Yield Notes Returns

(daily simulations on notes issued from 4 Jan 2006 to 30 Oct 2021, and maturing from 1 Jan 2008 to 30 Oct 2024)<sup>2</sup>

| Underlier(s)                                           | Coupon used for simulation | Average yield | % of times the note was called (barrier at 100%) <sup>3</sup> | % of times the note knocked-in (barrier at 70%) | Average loss given knock-in (barrier at 70%) |
|--------------------------------------------------------|----------------------------|---------------|---------------------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| Nasdaq-100 Futures 35% Defined Volatility 6% Decrement | 14.00%                     | 13.30%        | 95.10%                                                        | 0.20%                                           | -34.10%                                      |
| Worst of S&P 500, Russell 2000, Nasdaq-100             | 7.00%                      | 6.94%         | 89.84%                                                        | 0.40%                                           | -31.27%                                      |
| Worst of S&P 500, Russell 200, EURO STOXX 50           | 7.10%                      | 6.23%         | 85.24%                                                        | 5.83%                                           | -36.39%                                      |

<sup>1</sup>European Knock-in.<sup>2</sup>Source: BNP Paribas. Bloomberg tickers: SPX (S&P 500), RTY (Russell 2000), NDX (Nasdaq-100), SX5E (EURO STOXX 50), NXQDV356 (Nasdaq-100 Futures 35% Defined Volatility 6% Decrement). All retrospective levels provided in the graphs and tables on this page are simulated and must be considered illustrative only. These simulations are the result of estimates made by BNP Paribas at a given moment based on the parameters selected by BNP Paribas, certain assumptions that may or may not hold in future periods, of market conditions at this given moment and of historical data, which should not be used as guidance, in any way, of the future results of the financial instruments mentioned on this page.<sup>3</sup>After a non-callable period of 6 months.

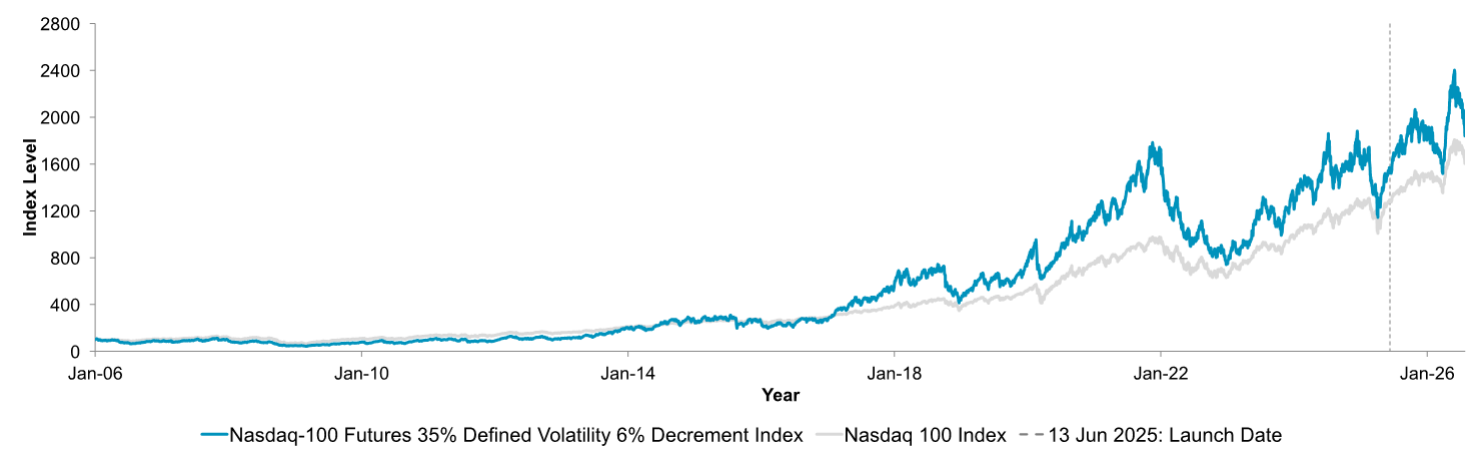
# Index Methodology and Overview

- The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index tracks the performance of the Nasdaq-100 Index and deploys leverage with the objective of maintaining a 35% level of Implied Volatility, and a 6% Synthetic Dividend.
- Created by Nasdaq as an alternative to the typical worst-of index basket underlying, this price efficient index is designed to define a previously undefinable pricing metric in implied volatility. As a result, callable yield notes issued by BNP Paribas linked to the Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index are intended to display a consistent and higher level of yield, compared to classic worst-of index baskets.
- Instead of achieving attractive terms in callable yield notes only when the market sells off and implied volatility is high, investors can maintain attractive terms regardless of market environment by linking to defined volatility indices. However, this approach relies on leverage, which may amplify returns but also magnify losses during downturns or increase costs in low-volatility environments.
- The chart and statistics table below show an analysis of the levels of the Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index. The performance shown is hypothetically simulated until 13 June 2025.

|                                                |                |                               |                            |
|------------------------------------------------|----------------|-------------------------------|----------------------------|
| Bloomberg Ticker                               | NXQDV356 Index | Index Type                    | Excess Return <sup>2</sup> |
| Index Sponsor                                  | Nasdaq         | Weighting                     | Weekly Rebalancing         |
| Currency                                       | USD            | Launch Date                   | 13 June 2025               |
| Correlation with Nasdaq-100 Index <sup>1</sup> | 88%            | Average Leverage <sup>3</sup> | 265%                       |

## Hypothetical and Historical Index Performance and Statistics<sup>1</sup>

As of July 31<sup>st</sup>, 2026



| Jan 06 - Jul 26                              | NXQDV356 Index | Nasdaq 100 Index |
|----------------------------------------------|----------------|------------------|
| YTD Return                                   | 6.04%          | 11.98%           |
| 5Y Annualized Return                         | 5.80%          | 13.56%           |
| 10 Annualized Return                         | 21.85%         | 19.55%           |
| Annualized Volatility (since 4 January 2006) | 34.66%         | 22.38%           |
| Correlation with Nasdaq-100 Index            | 0.89           | -                |

<sup>1</sup>Source: Bloomberg, BNP Paribas from 4 January 2006. Past performance is not an indicator of future performance.

The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index is based on hypothetical Past Performance Data ("PPD") prior to the Launch Date of 13 June 2025, actual/historical performance begins after Launch Date. Because The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index did not exist prior to the Launch Date, all retrospective levels provided in the graphs and tables above are simulated and must be considered illustrative only. The presentation of hypothetical data reflects the deduction of fees and charges. These simulations are the result of estimates made by BNP Paribas at a given moment based on the parameters selected by BNP Paribas, certain assumptions that may or may not hold in future periods, of market conditions at this given moment and of historical data, which should not be used as guidance, in any way, of the future results of the Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index. Correlation to NDX is not a reliable indicator of relative performance. The Index's high leverage and decrement do not affect its correlation, and strong correlation may still result in significant underperformance versus the NDX.

<sup>2</sup>The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index is an "Excess Return Index" meaning its returns are derived from changes in the level of its components (known as "price return") and profit or loss gained from rolling from one futures contract to another (known as "roll return"). Unlike Total Return Indices, it does not derive returns based on interest earned on cash or other collateral deposited in connection with the purchase of futures contracts (known as "collateral return").

<sup>3</sup>From 4 January 2006 to 30 June 2025.

# Callable Notes Indicative Terms (as of 30 June 2025)

## Annual Review Note

## Annual Review Note With Step Down

## Callable Yield Note

- **Maturity:** 5 Years
  - **Autocall Barrier:** 100%
  - **Coupon:** 18.00% Per Annum (paid when called or at maturity)
  - **European Knock-in Barrier:** 50%
  - **Observation Frequency:** Annual
  - **Reoffer:** 95%
- **Maturity:** 5 Years
  - **Autocall Barrier:** 100%
  - **Coupon:** 13.05% Per Annum (paid when called or at maturity)
  - **European Knock-in Barrier:** 50%
  - **Observation Frequency:** Annual
  - **Reoffer:** 95%
- **Maturity:** 5 Years Non-Call 6M
  - **Autocall Barrier:** 100%
  - **Coupon:** 7.40% Per Annum
  - **EKI/Coupon Barrier:** 50%
  - **Observation Frequency:** Quarterly
  - **Reoffer:** 95%

# Hypothetical and Historical Monthly Returns of the Index<sup>1</sup>

As of July 31<sup>st</sup>, 2026

|      | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     | YTD     |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2026 | 1.47%   | -6.58%  | -7.84%  | 26.69%  | 17.24%  | -6.49%  | -12.61% |         |         |         |         |         | 6.04%   |
| 2025 | 2.06%   | -9.52%  | -11.14% | 2.54%   | 10.64%  | 11.30%  | 4.70%   | -1.52%  | 10.81%  | 6.57%   | -5.57%  | -5.18%  | 12.98%  |
| 2024 | -0.40%  | 8.01%   | 0.84%   | -10.69% | 10.42%  | 13.39%  | -4.12%  | -2.30%  | 3.13%   | -2.56%  | 6.18%   | -1.79%  | 19.08%  |
| 2023 | 14.77%  | -3.98%  | 12.26%  | -1.15%  | 15.19%  | 11.46%  | 7.67%   | -4.56%  | -12.59% | -5.75%  | 18.75%  | 11.52%  | 76.03%  |
| 2022 | -19.61% | -9.57%  | 3.75%   | -18.21% | -1.21%  | -10.68% | 13.51%  | -9.00%  | -11.34% | 1.72%   | 5.85%   | -15.15% | -54.45% |
| 2021 | 0.88%   | -1.52%  | 0.55%   | 10.16%  | -5.35%  | 13.39%  | 6.36%   | 9.75%   | -12.36% | 16.50%  | 3.37%   | 0.07%   | 45.57%  |
| 2020 | 10.62%  | -13.04% | -8.44%  | 12.45%  | 6.45%   | 8.63%   | 9.70%   | 16.61%  | -8.27%  | -3.61%  | 12.05%  | 8.74%   | 57.85%  |
| 2019 | 11.86%  | 4.84%   | 8.24%   | 13.70%  | -16.62% | 12.89%  | 3.74%   | -7.66%  | 0.61%   | 5.10%   | 9.57%   | 7.43%   | 61.98%  |
| 2018 | 30.70%  | -3.34%  | -10.44% | -2.25%  | 10.45%  | 0.78%   | 4.10%   | 11.94%  | -2.41%  | -25.96% | -2.89%  | -13.00% | -12.43% |
| 2017 | 15.64%  | 17.04%  | 6.01%   | 5.21%   | 11.45%  | -7.01%  | 9.04%   | 4.71%   | -1.85%  | 12.46%  | 2.21%   | -1.51%  | 98.52%  |
| 2016 | -15.25% | -3.27%  | 12.04%  | -6.63%  | 10.18%  | -7.59%  | 18.68%  | 2.43%   | 1.57%   | -5.02%  | -2.14%  | 1.04%   | 1.24%   |
| 2015 | -5.76%  | 17.28%  | -8.34%  | 3.93%   | 4.71%   | -7.78%  | 9.11%   | -20.11% | -4.64%  | 19.92%  | 0.41%   | -4.18%  | -2.49%  |
| 2014 | -6.86%  | 10.19%  | -8.07%  | -2.00%  | 12.07%  | 8.73%   | 3.28%   | 13.75%  | -2.51%  | -2.57%  | 14.06%  | -10.40% | 28.48%  |
| 2013 | 4.11%   | 0.82%   | 6.90%   | 3.54%   | 8.66%   | -6.89%  | 16.92%  | -2.22%  | 11.61%  | 8.20%   | 10.90%  | 6.66%   | 91.92%  |
| 2012 | 16.19%  | 13.80%  | 10.70%  | -3.33%  | -13.78% | 4.50%   | -1.93%  | 10.28%  | 0.20%   | -13.09% | 4.14%   | -1.97%  | 22.57%  |
| 2011 | 6.22%   | 4.74%   | -2.68%  | 5.49%   | -3.63%  | -5.37%  | 2.27%   | -12.37% | -4.97%  | 10.08%  | -4.76%  | -0.68%  | -7.63%  |
| 2010 | -12.41% | 7.04%   | 16.29%  | 4.73%   | -12.32% | -12.09% | 8.49%   | -9.14%  | 21.52%  | 11.01%  | -3.94%  | 8.49%   | 21.97%  |
| 2009 | -3.60%  | -4.28%  | 8.56%   | 11.54%  | 2.53%   | 2.97%   | 9.69%   | 1.33%   | 7.82%   | -6.03%  | 7.50%   | 9.76%   | 56.73%  |
| 2008 | -17.72% | -8.06%  | 1.81%   | 9.41%   | 9.29%   | -15.30% | -0.32%  | 0.64%   | -20.07% | -13.02% | -8.31%  | 0.66%   | -49.79% |
| 2007 | 2.59%   | -6.61%  | -0.88%  | 11.28%  | 6.31%   | -0.74%  | -1.15%  | 1.98%   | 7.31%   | 11.84%  | -11.02% | -2.98%  | 16.48%  |
| 2006 | -0.79%  | -6.32%  | 2.84%   | -2.41%  | -18.07% | -2.11%  | -8.71%  | 6.65%   | 7.95%   | 9.08%   | 4.80%   | -5.97%  | -15.49% |

Source: Bloomberg, BNP Paribas from 4 January 2006. Past performance is not an indicator of future performance.

<sup>1</sup>The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index is based on hypothetical Past Performance Data ("PPD") prior to the Launch Date of 13 June 2025, actual/historical performance begins after Launch Date. Because The Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index did not exist prior to the Launch Date, all retrospective returns provided in the table above are simulated and must be considered illustrative only. The presentation of hypothetical data reflects the deduction of fees and charges. These simulations are the result of estimates made by BNP Paribas at a given moment based on the parameters selected by BNP Paribas, certain assumptions that may or may not hold in future periods, of market conditions at this given moment and of historical data, which should not be used as guidance, in any way, of the future results of the Nasdaq-100 Futures 35% Defined Volatility 6% Decrement Index.

**Selected Risk Considerations related to the Index:**  
The Index is leveraged (up to 500%) which might generate higher drawdowns.  
The Index has a volatility of 35% by construction, higher than regular broad-based benchmarks.  
The Index might underperform the Nasdaq-100 due to the 6% synthetic dividend.

**Risks Relating to the Index: No Assurance Can Be Given that the Strategy Used to Construct the Index Will Achieve Its Intended Results or that the Index Will Be Successful** – No assurance can be given that the investment strategy on which the Index is based will be successful or that the Index will outperform any alternative strategy that might be employed with respect to the Index Components. The Index has been developed based on predetermined rules that may not prove to be advantageous or successful, and that will not be adjusted for market conditions.

**The Index is Subject to Risks Associated with Significant Leverage** – At times, the Index will use significant leverage to achieve its target volatility. When the Index employs leverage, any declines in the Index will be magnified, resulting in accelerated losses.

**The Index May Not Be Fully Invested** – On a weekly rebalancing day, the Index's exposure to the Nasdaq-100 Index (the "NDX" or "Underlying Index") will be less than 100% when the implied volatility is greater than the volatility target. If the Index's exposure to the Underlying Index is less than 100%, the Index will not be fully invested, and any uninvested portion will earn no return.

**The Index May Not Approximate Its Target Volatility** – No assurance can be given that the Index will maintain a realized volatility that approximates its target volatility. The actual realized volatility may be greater than or less than the target volatility, which may adversely affect the performance of the Index.

**The Volatility Target Mechanism May Cause the Index to Perform Poorly in Adverse Market Conditions and to Underperform in Rising Markets** – Because the amount of leverage to be applied is determined only at the weekly rebalancing, the Index may not meaningfully reduce its leverage during adverse market conditions, and, because of the delayed application, by the time reduced exposure takes effect, market conditions may have already recovered. Similarly, when markets rise rapidly, the volatility target mechanism will reduce the Index's leverage.

**The Index Is An Excess Return Index That Does Not Reflect "Total Returns"** – The values tracked by the Index only reflect changes in the prices or levels of the relevant Index Components. The level of the Index will not benefit from any collateral return on any futures contracts or any dividends or other distributions on any Index Components.

**The Daily Level of the Index Is Calculated Based on Performance Measured From the Preceding Weekly Rebalancing Date, Which Could Adversely Affect the Level of the Index** – The level of the Index on each day that is not a rebalancing day will be calculated based on the performance of the Underlying Index from the preceding rebalancing day and by reference to the level of the Index as of the prior rebalancing day. The level of the Index may be more favorable if such calculations were done over a different time-horizon – i.e., if such calculations were made based on the levels on the prior trading day rather than the prior rebalancing day or if such calculations were made based on less frequent rebalancing days.

**Legal Notice:** This document is CONFIDENTIAL AND FOR DISCUSSION PURPOSES ONLY; it constitutes a marketing communication and has been prepared by a Sales and Marketing function within BNP Paribas and/or its subsidiaries or affiliates (collectively "we" or "BNP Paribas"). As a confidential document it is submitted to selected recipients only and it may not be made available (in whole or in part) to any other person without BNP Paribas' written consent. This document is not a recommendation to engage in any action, does not constitute or form any part of any offer to sell or issue and is not a solicitation of any offer to purchase any financial instrument, nor shall it or any part of it nor the fact of its distribution form the basis of, or be relied on in connection with, any contract or investment decision. To the extent that any transaction is subsequently entered into between the recipient and BNP Paribas, such transaction will be entered into upon such terms as may be agreed by the parties in the relevant documentation. The information contained in this document has been obtained from sources believed to be reliable, but there is no guarantee of the accuracy, completeness or suitability for any particular purpose of such information or that such information has been independently verified by BNP Paribas or by any person. None of BNP Paribas, its members, directors, officers, agents or employees accepts any responsibility or liability whatsoever or makes any representation or warranty, express or implied, as to the accuracy or completeness of the information, or any opinions based thereon, contained in this document and it should not be used in place of professional advice. Additional information may be provided on request, at our discretion. Any scenarios, assumptions, historical or simulated performances, indicative prices or examples of potential transactions or returns are included for illustrative purposes only. Past performance is not indicative of future results. Investors may get back less than they invested. BNP Paribas gives no assurance that any favorable scenarios described are likely to happen, that it is possible to trade on the terms described herein or that any potential returns illustrated can be achieved. This document is current as at the date of its production and BNP Paribas is under no obligation to update or keep current the information herein. In providing this document, BNP Paribas offers no investment, financial, legal, tax or any other type of advice to, and has no fiduciary duty towards, recipients. Certain strategies and/or potential transactions discussed in this document may involve the use of derivatives which may be complex in nature and may give rise to substantial risks, including the risk of total or partial loss of any investment or losses without limitation and which should only be undertaken by those with the requisite knowledge and experience. BNP Paribas makes no representation and gives no warranty as to the results to be obtained from any investment, strategy or transaction, or as to whether any strategy, security or transaction described herein may be suitable for recipients' financial needs, circumstances or requirements. Recipients must make their own assessment of strategies, securities and/or potential transactions detailed herein, using such professional advisors as they deem appropriate. BNP Paribas accepts no liability for any direct or consequential losses arising from any action taken in connection with or reliance on the information contained in this document even where advised of the possibility of such losses. As an investment bank with a wide range of activities, BNP Paribas may face conflicts of interest and you should be aware that BNP Paribas and/or any of its affiliates may be long or short, for their own account or as agent, in investments, transactions or strategies referred to in this document or related products before the material is published to clients and that it may engage in transactions in a manner inconsistent with the views expressed in this document, either for their own account or for the account of their clients. Additionally, BNP Paribas may have acted as an investment banker or may have provided significant advice or investment services to companies or in relation to investments mentioned in this document. The information in this document is not intended for distribution to, or use by, any person or entity in any jurisdiction where (a) the distribution or use of such information would be contrary to law or regulations, or (b) BNP Paribas or a BNP Paribas affiliate would become subject to new or additional legal or regulatory requirements. Persons in possession of this document should inform themselves about possible legal restrictions and observe them accordingly. THIS DOCUMENT IS A GENERAL SOLICITATION OF DERIVATIVES BUSINESS FOR THE PURPOSES OF, AND TO THE EXTENT IT IS SUBJECT TO, §§1.71 AND 23.605 OF THE U.S. COMMODITY EXCHANGE ACT. The risk of loss associated with futures and options trading, and trading in any other products discussed in this document, can be substantial. Investors considering options trading may wish to review the Options Disclosure Document: Characteristics and Risks of Standardized Options at (<http://www.optionsclearing.com/publications/risks/riskchap1.jsp>). The information on this website is not part of or incorporated by reference in this document. Options involve risks and are not suitable for all investors. This brief statement does not disclose all the risks and other significant aspects in connection with transactions of the type described in this document. This document contains certain performance data based on back-testing (i.e., simulations of performance of a strategy, index or assets as if it had actually existed during a defined period of time). To the extent any such performance data is included, the scenarios, simulations, development expectations and forecasts contained in this document are for illustrative purposes only. All estimates and opinions included in this document constitute the judgment of BNP Paribas and its affiliates as of the date of the document and may be subject to change without notice. This type of information has inherent limitations which recipients must consider carefully. While the information has been prepared in good faith in accordance with BNP Paribas' or its affiliates' own internal models and other relevant sources, an analysis based on different models or assumptions may yield different results. Unlike actual performance records, simulated performance, returns or scenarios may not necessarily reflect certain market factors such as liquidity constraints, fees and transactions costs. Actual back-tested past performance does not constitute an indication of future results or performance. The information in this document is not intended for distribution to, or use by, any person or entity in any jurisdiction where (a) the distribution or use of such information would be contrary to law or regulations, or (b) BNP Paribas or a BNP Paribas affiliate would become subject to new or additional legal or regulatory requirements. This document is intended only for those defined under U.S. securities laws as "institutional investors" and/or "major institutional investors". Securities transactions with BNP Paribas that result from the provision of this document will be effected by or through BNP Paribas Securities Corp., a U.S. registered broker-dealer and member of FINRA, the New York Stock Exchange and other principal exchanges.

© BNP Paribas. All rights reserved.

Nasdaq®, Nasdaq-100®, Nasdaq-100 Index® and NDX® are a registered trademarks of Nasdaq, Inc. (which with its affiliates is referred to as the "Corporations" and are licensed for use by BNP Paribas. The Product(s) have not been passed on by the Corporations as to their legality or suitability. The Product(s) are not issued, endorsed, sold, or promoted by the Corporations. The Corporations make no warranties and bear no liability with respect to the product(s).

NONE OF BNP PARIBAS, NASDAQ OR ANY THIRD PARTY LICENSOR GUARANTEES THE ACCURACY, ADEQUACY, TIMELINESS, COMPLETENESS OR AVAILABILITY OF THE NASDAQ-100 FUTURES 35% DEFINED VOLATILITY 6% DECREMENT INDEX OR ANY COMPONENT THEREOF OR DATA INCLUDED THEREIN, OR THAT NO ERROR, OMISSION, DELAY OR INTERRUPTION WILL EXIST THEREIN. NONE OF BNP PARIBAS, NASDAQ OR ANY THIRD PARTY LICENSOR MAKES ANY REPRESENTATION OR WARRANTY, AND EACH OF BNP PARIBAS, NASDAQ AND THE THIRD PARTY LICENSORS EXPRESSLY DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE THE NASDAQ-100 FUTURES 35% DEFINED VOLATILITY 6% DECREMENT INDEX, ANY BNP PARIBAS MARK OR NASDAQ INDEX, TRADEMARK OR SERVICE MARK OF NASDAQ INCLUDING, WITHOUT LIMITATION, THOSE REGARDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.



# BNP PARIBAS

The bank  
for a changing  
world