



GS Finance Corp.

Medium-Term Notes, Series F | Warrants, Series G

guaranteed by

The Goldman Sachs Group, Inc.

Nasdaq-100 Technology Sector Index

Overview

This section constitutes only a brief overview of the Nasdaq-100 Technology Sector Index. The index is described in more detail under “The Underliers — Nasdaq-100 Technology Sector Index” in the underlier supplement referred to in “About This Index Supplement” below.

The Nasdaq-100 Technology Sector Index (current Bloomberg symbol: “NDXT Index”), which we also refer to in this index supplement as the “index,” is designed to measure the performance of the technology companies in the Nasdaq-100 Index®. The Nasdaq-100 Index® is designed to measure the performance of 100 of the largest Nasdaq-listed non-financial stocks. Each issuer of a stock in the index is classified as a Technology company according to the Industry Classification Benchmark (ICB). The index is a “price return” index and is an equal weighted index. The index has a base date of February 22, 2006, with a base value of 1000.00, as adjusted, and is calculated, maintained and published by Nasdaq, Inc. We have derived all information contained in this index supplement regarding the index from publicly available information. Additional information about the index is available on the following website: [indexes.nasdaqomx.com/Index/Overview/NDXT](https://indexes.nasdaqomx.com/Index/Overview/NDXT). We are not incorporating by reference the website or any material it includes in this index supplement.

Quick Facts

Historical Performance

Sponsor	Nasdaq, Inc.
Calculation Agent	Nasdaq, Inc.
Index Currency	USD
Reuters Ticker	.NDXT
Bloomberg Ticker	NDXT
Rebalancing	Quarterly
Index Members	Variable
Geographical Coverage	US
Type	Price Return
Launch Date	February 22, 2006
History Available Since	February 22, 2006

The graph below shows the daily historical closing levels of the index from January 2, 2020 through April 1, 2025. As a result, the below graph does not reflect the global financial crisis which began in 2008, which had a materially negative impact on the price of most equity securities and, as a result, the level of most equity indices. We obtained the closing levels in the graph below from Bloomberg Financial Services, without independent verification. **You should not take the historical levels of the index as an indication of its future performance.**

Annualized Return and Annualized Volatility



The following table provides the annualized return and annualized volatility of the index for each applicable period ended April 1, 2025. Annualized return represents the average rate of return per annum, calculated as the geometric average of the percentage change of the index during the applicable time period. Annualized volatility is a measure of the historical variability of returns, and is calculated as the square root of 252 multiplied by the sample standard deviation of the daily logarithmic returns of the index during the applicable time period. **You should not take any annualized return or annualized volatility information regarding the index as an indication of its future performance.**

	Annualized Return	Annualized Volatility
1 Year	-8.72%	25.75%
3 Years	4.78%	29.87%
5 Years	16.88%	29.52%
Since January 2, 2020	10.80%	31.98%

Your investment in securities linked to the index involves certain risks. See “Selected Risk Factors” on page S-3 to read about investment risks relating to such securities.

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this index supplement, the applicable pricing supplement, the applicable product supplement, if any, the applicable general terms supplement, if any, the accompanying underlier supplement, the accompanying prospectus supplement or the accompanying prospectus. Any representation to the contrary is a criminal offense.

The securities are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank.

Goldman Sachs & Co. LLC

April 2025 Nasdaq-100 Technology Sector Index Supplement dated April 21, 2025.



# April 2025 Nasdaq-100 Technology Sector Index Supplement

Dated April 21, 2025

## Comparative Performance Data

### Index Performance Compared to its Parent Index and a Select Broad-Based Stock Index

For comparative purposes, the graph below shows the performance, from January 2, 2020 through April 1, 2025, of the Nasdaq-100 Technology Sector Index (in black), the Nasdaq-100 Index® (in gray) and a broad-based equity index, the S&P 500® Index (in blue). The S&P 500® Index seeks to track a representative sample of 500 companies in leading industries of the U.S. economy. Unlike the Nasdaq-100 Technology Sector Index, neither the Nasdaq-100 Index® nor the S&P 500® Index seeks to track the performance of companies in the technology sector.

For comparative purposes, each of the Nasdaq-100 Technology Sector Index, the Nasdaq-100 Index® and the S&P 500® Index have been adjusted to have a closing level of 100.00 on January 2, 2020 by dividing the applicable closing level on each day by that index's closing level on January 2, 2020 and multiplying the quotient by 100.00.

The daily historical closing levels of the indices used to create this graph were obtained from Bloomberg Financial Services, without independent verification. **You should not take this graph or the historical closing levels of the indices used to create this graph as an indication of the future performance of any index, including the Nasdaq-100 Technology Sector Index, or the correlation (if any) between the level of the Nasdaq-100 Technology Sector Index and the levels of the Nasdaq-100 Index® or the S&P 500® Index.**

### Comparative Performance of the Nasdaq-100 Technology Sector Index (NDXT), the Nasdaq-100 Index® (NDX) and a Broad-Based Stock Index (SPX)



### Index Annualized Return Compared to its Parent Index and a Select Broad-Based Stock Index

The following table provides a comparison of the annualized returns of the Nasdaq-100 Technology Sector Index, the Nasdaq-100 Index® and the S&P 500® Index for the applicable period ended April 1, 2025. Annualized return represents the average rate of return per annum, calculated as the geometric average of the percentage change of the applicable index during the applicable time period. **You should not take the annualized returns of the indices as an indication of the future performance of any index, including the Nasdaq-100 Technology Sector Index.**

#### Comparison of Annualized Returns of the Nasdaq-100 Technology Sector Index, the Nasdaq-100 Index® and a Broad-Based Stock Index

	1 Year	3 Years	5 Years	Since January 2, 2020
S&P 500® Index	7.42%	7.41%	17.92%	11.00%
Nasdaq-100 Index®	6.25%	9.36%	21.02%	16.13%
Nasdaq-100 Technology Sector Index	-8.72%	4.78%	16.88%	10.80%



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### ***Selected Risk Factors***

An investment in securities linked to the index is subject to the risks described below as well as the risks and considerations described in the accompanying underlier supplement no. 44, the applicable pricing supplement, the applicable product supplement, if any, the applicable general terms supplement, if any, the accompanying prospectus supplement and the accompanying prospectus. The following risk factors are discussed in greater detail in the accompanying underlier supplement no. 44.

- The Estimated Value of Your Securities At the Time the Terms of Your Securities Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Securities
- Your Securities Are Subject to the Credit Risk of GS Finance Corp., as Issuer, and the Credit Risk of The Goldman Sachs Group, Inc., as Guarantor
- The Market Value of Your Securities May Be Influenced by Many Unpredictable Factors
- If the Value of an Underlier Changes, the Market Value of Your Securities May Not Change in the Same Manner
- The Return on Your Securities Will Not Reflect Any Dividends Paid on Any Underlier Stock
- You Have No Shareholder Rights or Rights to Receive Any Underlier Stock
- Past Performance is No Guide to Future Performance
- Your Investment in the Securities Is Subject to Concentration Risks
- The Policies of the Applicable Underlier Sponsor and Changes that Affect Such Underlier, or the Underlier Stocks Comprising Such Underlier, Could Affect the Amount Payable on Your Securities and Their Market Value
- Except to the Extent That We or Our Affiliates May Currently or in the Future Own Securities of, or Engage in Business With, the Applicable Underlier Sponsor or the Issuers of the Underlier Stocks, There Is No Affiliation Between the Issuers of the Underlier Stocks or Such Underlier Sponsor and Us
- Your Investment in the Securities Will Be Subject to Risks Associated with Foreign Securities Markets
- Government Regulatory Action, Including Legislative Acts and Executive Orders, Could Result in Material Changes to the Composition of an Underlier with Underlier Stocks from One or More Foreign Securities Markets and Could Negatively Affect Your Investment in Your Securities
- As Compared to Other Index Sponsors, Nasdaq, Inc. Retains Significant Control and Discretionary Decision-Making Over the Nasdaq-100 Technology Sector Index, Which May Have an Adverse Effect on the Level of the Nasdaq-100 Technology Sector Index and on Your Securities



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### ***About This Index Supplement***

GS Finance Corp. may use this index supplement in the initial sale of the securities. In addition, Goldman Sachs & Co. LLC (GS&Co.), or any other affiliate of GS Finance Corp., may use this index supplement in a market-making transaction in a security after its initial sale. ***Unless GS Finance Corp. or its agent informs the purchaser otherwise in the confirmation of sale, this index supplement is being used in a market-making transaction.***

This index supplement constitutes a supplement to the documents listed below and therefore should be read in conjunction with such documents:

- Underlier supplement no. 44 dated March 20, 2025
- Applicable prospectus supplement:
  - For notes: prospectus supplement dated February 14, 2025
  - For warrants: prospectus supplement dated February 14, 2025
- Prospectus dated February 14, 2025

We have not authorized anyone to provide any information or to make any representations other than those contained in or incorporated by reference in this index supplement, the accompanying underlier supplement no. 44, the accompanying prospectus supplement or the accompanying prospectus. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may provide. This index supplement addendum is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this index supplement addendum, the accompanying index supplement no. 44, the accompanying prospectus supplement and the accompanying prospectus is current only as of the respective dates of such documents.

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