

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Hypothetical Weights for 2/10/2023

Name	Weight
3I GROUP PLC ORD	0.002797
AAK AB	0.000663
ABB LTD-REG	0.003417
ABRDN PLC	0.001245
ACTIVIDADES DE CONSTRUCCION Y SE	0.002374
ADIDAS AG	0.004521
ADMIRAL GROUP PLC	0.001979
ADYEN NV	0.000899
AENA SME SA	0.000700
AERCAP HOLDINGS NV	0.002064
AEROPORTS DE PARIS SA	0.001174
AGEAS SA NV	0.002195
AIR LIQUIDE SA	0.006873
AKZO NOBEL NV	0.000787
ALCON INC	0.001842
ALFA LAVAL AB	0.001414
ALLIANZ SE	0.006256
AMADEUS IT GROUP SA CLASS A	0.001958
AMS-OSRAM AG	0.000362
ANDRITZ AG	0.002450
ANGLO AMERICAN PLC	0.002928
ANHEUSER BUSCH INBEV SA NV	0.004085
ANTOFAGASTA PLC	0.001249
AP MOLLER MAERSK A/S ORD A	0.004173
AP MOLLER MAERSK AS CLASS B	0.004306
ARGENX SE - ADR	0.001929
ASHTREAD GROUP PLC	0.001607
ASM INTERNATIONAL NV	0.001105
ASML HOLDING NV	0.027728
ASSA ABLOY AB CLASS B	0.000892
ASSICURAZIONI GENERALI SPA	0.002432
ASSOCIATED BRITISH FOODS PLC	0.001046
ASTRAZENECA PLC	0.019867
ATLAS COPCO AB	0.001629
ATLAS COPCO AB CLASS A	0.002539
AUTO TRADER GROUP PLC	0.004910
AVANZA BANK H	0.002418
AVIVA PLC	0.001732
AXA SA	0.008906
AXFOOD AB	0.002806
AZELIS GROUP NV	0.000687
B&M EUROPEAN VALUE RETAIL SA	0.001913
BANCO BILBAO VIZCAYA ARGENTARIA	0.005967
BANCO SANTANDER SA	0.007386
BARCLAYS PLC	0.004104
BARRATT DEVELOPMENTS PLC	0.001250
BASF SE	0.002395
BAWAG GROUP AG	0.000907
BAYER AG	0.006290
BAYERISCHE MOTOREN WERKE AG	0.005045
BAYERISCHE MOTOREN WERKE BMW PFD	0.003511
BEIERSDORF AG	0.002763
BEIJER REF AB	0.000807
BERKELEY GROUP HOLDINGS PLC	0.002098
BIOMERIEUX	0.002444
BIONTECH SE	0.007334
BNP PARIBAS SA	0.006518
BOLIDEN AB	0.000870
BOUYGUES SA	0.001617
BRITISH LAND CO PLC	0.000556
BT GROUP PLC	0.000594
BUNZL PLC	0.002859
BURBERRY GROUP PLC	0.006451
CA IMMOBILIEN ANLAGEN AG	0.000611
CAIXABANK SA	0.001667
CAPGEMINI SA	0.002698
CARL ZEISS MEDITEC AG	0.000892
CARLSBERG AS CLASS B	0.001250
CARREFOUR SA	0.006028
CELLNEX TELECOM SA	0.000570
CIE GENERALE DES ETABLISSEMENTS	0.001229
CNH INDUSTRIAL NV	0.003197
COCA-COLA EUROPAFIC PARTNERS P	0.001928
COLOPLAST AS CLASS B	0.002205

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Hypothetical Weights for 2/10/2023

Name	Weight
COMPAGNIE DE SAINT GOBAIN SA	0.004821
COMPAGNIE FINANCIERE RICHEMONT S	0.006245
COMPASS GROUP PLC	0.002645
CONVATEC GROUP PLC	0.001786
CORP ACCIONA ENERGIAS RENOVA	0.001364
COVESTRO AG	0.000219
CREDIT AGRICOLE SA	0.004290
CREDIT SUISSE GROUP AG	0.000313
CRH PLC	0.001844
CRODA INTERNATIONAL PLC	0.000632
CYFROWY POLSAT SA	0.000614
DAIMLER TRUCK HOLDING AG	0.000379
DANONE SA	0.003500
DANSKE BANK A/S	0.001479
DASSAULT SYSTEMES SA	0.001809
DAVIDE CAMPARI-MILANO NV	0.000363
DELIVERY HERO SE	0.000603
DEMANT A/S	0.001789
DEUTSCHE BANK AG	0.004234
DEUTSCHE BOERSE AG	0.002748
DEUTSCHE POST AG	0.007541
DEUTSCHE TELEKOM AG	0.006106
DIAGEO PLC	0.007174
DIE RAIFFEISEN BANK INTERNATIONA	0.003428
DIETEREN GROUP	0.001211
DINO POLSKA SA	0.003939
DS SMITH PLC	0.003617
DSV AS	0.000972
EDP ENERGIAS DE PORTUGAL SA	0.002157
EDP RENOVAVEIS SA	0.000757
ELECTRICITE DE FRANCE SA	0.000651
ELIA GROUP SA/NV	0.002037
ELISA OYJ CLASS A	0.001034
EMBRACER GROUP AB	0.000554
ENDAVA PLC	0.000365
ENTAIN PLC	0.000291
EPIROC AB-A	0.001243
EPIROC AB-B	0.000955
ERSTE GROUP BANK AG	0.000646
ESSILORLUXOTTICA	0.004779
ESSITY AB CLASS B	0.001121
EUROFINS SCIENTIFIC SE	0.001715
EVN AG	0.000390
EVOLUTION AB	0.000753
EVONIK INDUSTRIES AG	0.000552
EXOR NV	0.000825
EXPERIAN PLC	0.001598
FERGUSON PLC	0.006177
FERRARI NV	0.002851
FERROVIAL SA	0.001838
FINECOBANK BANCA FINECO SPA	0.000978
FLUTTER ENTERTAINMENT PLC	0.001397
FRESENIUS MEDICAL CARE AG & CO K	0.004282
FRESENIUS SE & CO KGAA	0.004620
FRESNILLO PLC	0.001004
GEBERIT AG	0.003890
GENMAB A/S	0.002858
GIVAUDAN SA	0.001355
GJENSIDIGE FORSIKRING ASA	0.000506
GRIFOLS SA CLASS A	0.000211
GROUPE BRUXELLES LAMBERT SA	0.000709
GSK PLC	0.007607
H&M HENNES & MAURITZ AB CLASS B	0.004265
HAL TRUST	0.005759
HALEON PLC	0.001469
HALMA PLC	0.000569
HANNOVER RUCK SE	0.001865
HAPAG-LLOYD AG	0.003349
HARGREAVES LANSDOWN PLC ORD	0.002864
HEIDELBERGCEMENT AG	0.000521
HEINEKEN HOLDING NV	0.002978
HEINEKEN NV	0.002504
HENKEL AG & CO KGAA BEARER SH	0.000924
HENKEL AG & CO KGAA PREF	0.000984

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Hypothetical Weights for 2/10/2023

Name	Weight
HERMES INTERNATIONAL SCA	0.008374
HEXAGON AB CLASS B	0.000521
HIKMA PHARMACEUTICALS PLC	0.001379
HOLCIM LTD	0.004268
HOLMEN AB	0.000345
HSBC HOLDINGS PLC	0.011626
HUHTAMAKI OYJ	0.000337
IBERDROLA SA	0.007191
ICON PLC	0.000561
INDUSTRIA DE DISEÑO TEXTIL SA	0.007097
INDUSTRIVAERDEN AB ORD C	0.000414
INDUSTRIVARDEN AB CLASS A	0.000394
INDUTRADE AB	0.000514
INFINEON TECHNOLOGIES AG	0.003058
INFORMA PLC	0.001799
INFRASTRUTTURE WIRELESS ITALIANE	0.001466
ING GROEP NV	0.002792
INPOST SA	0.000640
INTERCONTINENTAL HOTELS GROUP PL	0.001379
INTERTEK GROUP PLC	0.000793
INTESA SANPAOLO SPA	0.000961
INVESTOR AB CLASS B	0.001989
INVESTOR AB ORD A	0.000535
JAMES HARDIE INDUSTRIES PLC	0.001260
JD SPORTS FASHION PLC	0.004210
JDE PEETS BV	0.002222
JERONIMO MARTINS SGPS SA	0.004203
JOHNSON MATTHEY PLC	0.000828
KBC GROUPE SA	0.000506
KERING SA	0.004626
KERRY GROUP PLC-A	0.000763
KESKO OYJ CLASS B	0.000563
KGHM POLSKA MIEDZ SA	0.000346
KINGFISHER PLC	0.000474
KNORR-BREMSE AG	0.000858
KONE OYJ CLASS B	0.000624
KONINKLIJKE DSM NV	0.000916
KONINKLIJKE PHILIPS NV	0.000851
KUEHNE & NAGEL INTERNATIONAL AG	0.004770
L E LUNDBERGFÖRETAGEN AB CLASS B	0.000524
L OREAL SA	0.012033
LAND SECURITIES GROUP PLC	0.000537
LEGAL & GENERAL GROUP PLC ORD	0.001364
LEGRAND SA	0.001665
LIBERTY GLOBAL PLC - CLASS A	0.001507
LIBERTY GLOBAL PLC - CLASS C	0.001674
LLOYDS BANKING GROUP PLC	0.002296
LM ERICSSON TELEFON AB CLASS B	0.003497
LONDON STOCK EXCHANGE GROUP ORD	0.001833
LONZA GROUP AG	0.001409
LVMH MOËT HENNESSY LOUIS VUITTON	0.024451
M&G PLC	0.000448
MAPFRE SA	0.003922
MAYR-MELNHOF KARTON AG	0.000472
MEDIOBANCA SPA	0.000485
MERCEDES-BENZ GROUP AG	0.006243
MERCK KGAA	0.002508
METSO OUTOTEC OYJ	0.000998
MILLICOM INTL CELLULAR SA	0.001858
MONCLER SPA	0.003772
MONDI PLC	0.000636
MTU AERO ENGINES AG	0.001690
MUNICH REINSURANCE COMPANY	0.003851
NATWEST GROUP PLC	0.002035
NAVIGATOR COMPANY SA	0.001549
NEL ASA	0.000590
NESTLE SA	0.031150
NEXI SPA	0.000579
NEXT PLC	0.003113
NIBE INDUSTRIER AB	0.001377
NN GROUP NV	0.004318
NOKIA OYJ	0.002217
NORDEA BANK ABP	0.002894
NORSK HYDRO ASA	0.001050

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Hypothetical Weights for 2/10/2023

Name	Weight
NOVARTIS AG	0.020509
NOVO NORDISK A/S	0.026204
NOVOZYMES AS CLASS B	0.000603
NXP SEMICONDUCTOR NV	0.004536
ORANGE SA	0.001408
ORION OYJ CLASS B	0.004211
ORKLA ASA	0.000598
PANDORA A/S	0.004729
PARTNERS GROUP HOLDING AG	0.004337
PEARSON PLC	0.000748
PERNOD RICARD SA	0.002990
PHOENIX GROUP HOLDINGS	0.001313
PIRELLI & C SPA	0.000697
PORSCHE AUTOMOBIL HOLDING SE	0.000200
POSTE ITALIANE SPA	0.001864
POWSZECHNY ZAKLAD UBEZPIECZE	0.000958
PRADA SPA	0.002651
PROSUS NV	0.002569
PROXIMUS SA DE DROIT PUBLIC	0.000511
PRUDENTIAL PLC	0.002211
PRYSMIAN SPA	0.002578
PUMA SE	0.002647
RECKITT BENCKISER GROUP PLC	0.003252
RECORDATI SPA	0.000345
RED ELECTRICA CORP SA	0.001177
RELX PLC	0.005350
RENTOKIL INITIAL PLC	0.001040
RIGHTMOVE PLC	0.005060
RIO TINTO PLC	0.009907
ROCHE HOLDING AG	0.023976
ROCHE HOLDING AG ORD BRR	0.004080
ROYAL AHOLD DELHAIZE NV	0.007577
ROYAL KPN NV	0.001323
RYANAIR HOLDINGS PLC	0.000199
SAAB AB CLASS B	0.001936
SAGAX AB-B	0.000468
SAGAX AB-D	0.000493
SAGE GROUP PLC	0.003467
SAMPO OYJ CLASS A	0.003060
SANDVIK AB	0.000556
SANOFI SA	0.011593
SAP SE	0.011386
SARTORIUS AG PREF	0.000350
SARTORIUS STEDIM BIOTECH SA	0.000896
SCHINDLER HOLDING AG	0.001507
SCHINDLER HOLDING AG ORD	0.001293
SCHNEIDER ELECTRIC SE	0.008146
SCHROEDERS PLC ORD	0.000515
SEGRO PLC	0.000393
SEVERN TRENT PLC	0.000810
SGS SA	0.005356
SIEMENS AG	0.011346
SIEMENS ENERGY AG	0.004084
SIEMENS HEALTHINEERS AG	0.000644
SIKA AG	0.001240
SKANDINAVISKA ENSKILDA BANKEN AB	0.001492
SKANSKA AB CLASS B	0.000239
SMITH & NEPHEW PLC	0.001385
SMITHS GROUP PLC	0.001888
SOCIETE GENERALE SA CLASS A	0.002678
SODEXO SA	0.001722
SOLVAY SA	0.001515
SPAREBANK 1 SR BANK ASA	0.000472
SPIRAX SARCO ENGINEERING PLC	0.000620
SSAB (SSAB SWEDISH STEEL) AB ORD	0.007629
SSAB AB	0.003648
ST JAMES S PLACE PLC ORD	0.002541
STANDARD CHARTERED PLC	0.003451
STELLANTIS NV	0.004659
STEVANATO GROUP SPA	0.000419
STMICROELECTRONICS NV	0.003189
STORA ENSO OYJ CLASS R	0.002824
STOREBRAND ASA	0.000271
STRAUMANN HOLDING AG	0.002861

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index would be after performing steps 1 and 2 of the index construction methodology, as defined in section II.B. of the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Methodology, if the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect the application of the third step of the index construction methodology, which will be completed the Index Administrator, or actual current or future changes to the Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® Paris-Aligned Europe Equity Index Hypothetical Weights for 2/10/2023

Name	Weight
SVENSKA CELLULOSA AKTIEBOLAGET C	0.000399
SVENSKA HANDELSBANKEN AB CLASS A	0.002059
SVENSKA HANDELSBANKEN AB ORD B	0.000884
SWATCH GROUP AG	0.002340
SWATCH GROUP AG	0.003399
SWEDBANK AB CLASS A	0.002356
SWEDISH ORPHAN BIOVITRUM AB	0.001684
SWISS RE AG	0.002515
SWISSCOM AG	0.001455
SYMRISE AG	0.001248
TALANX AG	0.002967
TAYLOR WIMPEY PLC	0.000200
TELE2 AB	0.000517
TELEFONICA DEUTSCHLAND HOLDING A	0.001241
TELEFONICA SA	0.003032
TELENOR ASA	0.000585
TELEPERFORMANCE SE	0.000609
TELIA CO AB	0.000746
TERNA SPA	0.001567
TOMRA SYSTEMS ASA	0.002159
TRELLEBORG AB CLASS B	0.001247
TRYG AS	0.001371
UBS GROUP AG	0.005920
UCB SA	0.001908
UMICORE	0.000660
UNICREDIT SPA	0.003670
UNILEVER PLC	0.010271
UNIPOLSAI ASSICURAZIONI SPA	0.000597
UNITED UTILITIES PLC	0.001074
UNIVERSAL MUSIC GROUP NV	0.002838
UPM-KYMMENE OYJ	0.001907
VANTAGE TOWERS AG	0.000636
VESTAS WIND SYSTEMS A/S	0.001101
VIENNA INSURANCE GROUP AG	0.002019
VINCI SA	0.006636
VODAFONE GROUP PLC	0.004282
VOLKSWAGEN AG	0.002469
VOLKSWAGEN AG PREF	0.003573
VOLVO AB CLASS B	0.001566
VOLVO AB ORD A	0.000813
VOLVO CAR AB-B W/I	0.000394
VONOVIA SE	0.000379
WAREHOUSES DE PAUW SCA	0.000206
WEIR GROUP PLC	0.000614
WIENERBERGER AG	0.002443
WISE PLC - A	0.000372
WOLTERS KLUWER NV	0.005337
WORLDLINE SA	0.001535
WPP PLC	0.001086
YARA INTERNATIONAL ASA	0.001164
ZALANDO SE	0.004115
ZURICH INSURANCE GROUP AG	0.005939

GOLDMAN SACHS ASSET MANAGEMENT, L.P., THE GOLDMAN SACHS GROUP, INC., AND GOLDMAN, SACHS & CO. (collectively, "GOLDMAN SACHS") DOES NOT GUARANTEE NOR MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, TO THE OWNERS OR SHAREHOLDERS OF THE FUND OR ANY MEMBER OF THE PUBLIC REGARDING THE ADVISABILITY OF INVESTING IN SECURITIES GENERALLY OR IN THE FUND PARTICULARLY OR THE ABILITY OF THE INDEX OR THE ABOVE HYPOTHETICAL WEIGHTS TO TRACK GENERAL MARKET PERFORMANCE. GOLDMAN SACHS, IN ITS CAPACITY AS THE INDEX PROVIDER OF THE INDEX, LICENSES CERTAIN TRADEMARKS AND TRADE NAMES TO THE FUND. GOLDMAN SACHS HAS NO OBLIGATION TO TAKE THE NEEDS OF THE FUND OR THE SHAREHOLDERS OF THE FUND INTO CONSIDERATION IN DETERMINING, COMPOSING OR CALCULATING THE INDEX OR THE ABOVE HYPOTHETICAL WEIGHTS. GOLDMAN SACHS OR ANY OF ITS AFFILIATES MAY HOLD LONG OR SHORT POSITIONS IN SECURITIES HELD BY THE FUND OR IN RELATED DERIVATIVES.

GOLDMAN SACHS DOES NOT GUARANTEE THE ADEQUACY, TIMELINESS, ACCURACY AND/OR THE COMPLETENESS OF THE INDEX, THE ABOVE HYPOTHETICAL WEIGHTS OR ANY DATA RELATED THERETO. GOLDMAN SACHS HEREBY EXPRESSLY DISCLAIM ANY AND ALL LIABILITY FOR ANY ERRORS, OMISSIONS, OR INTERRUPTIONS THEREIN OR IN THE CALCULATION THEREOF. GOLDMAN SACHS MAKES NO WARRANTY, EXPRESS OR IMPLIED, AND EXPRESSLY DISCLAIMS ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE WITH RESPECT TO THE MARKS, THE INDEX, THE ABOVE HYPOTHETICAL WEIGHTS OR ANY DATA INCLUDED THEREIN AS TO THE RESULTS TO BE OBTAINED BY THE FUND, THE SHAREHOLDERS, OR ANY OTHER PERSON OR ENTITY FROM USE OF THE INDEX, THE ABOVE HYPOTHETICAL WEIGHTS OR ANY DATA INCLUDED THEREIN. WITHOUT LIMITING ANY OF THE FOREGOING GOLDMAN SACHS HEREBY EXPRESSLY DISCLAIMS ANY AND ALL LIABILITY FOR ANY SPECIAL, PUNITIVE, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The Goldman Sachs ActiveBeta[®] Equity Indexes are owned by Goldman Sachs Asset Management (the Index Sponsor) and were developed to capture the performance of diversified exposure to the equity common factors: value, momentum, volatility, and quality.

ActiveBeta is a registered trademark of GSAM in the United States, Europe, and Japan. Smart Momentum and Smart Value are registered trademarks of GSAM in the United States. The ActiveBeta Portfolio Construction and Maintenance Methodology is the patent-protected property of GSAM (U.S. Patent Numbers 8,285,620 and 8,473,398).

THIS MATERIAL DOES NOT CONSTITUTE AN OFFER OR SOLICITATION IN ANY JURISDICTION WHERE OR TO ANY PERSON TO WHOM IT WOULD BE UNAUTHORIZED OR UNLAWFUL TO DO SO.

2022 Goldman Sachs. All rights reserved.

Date of First Use: 01 January 2022

Compliance Code: 263483-TMPL-01/2022-1538755