

# Goldman Sachs Global Growth Share Portfolio Fund

December 2024

# **Global Market Review**

Global equities fell slightly during the quarter, declining by -0.1%. The period was defined by shifting narratives- U.S. election, surging dollar, persistent inflation, and slower-than-expected rate cuts, all of which contributed to heightened volatility. Nevertheless, equities ended 2024 on a strong note, posting an impressive 18.7% gain for the year.

While inflation had eased significantly since 2022, progress stalled during the quarter as U.S. inflation rose to 2.7% in November. The Federal Reserve (Fed) cut rates twice in Q4 but signalled they would adopt a slower approach to further rate cuts in 2025 due to persistent inflationary pressures. Meanwhile, the U.S. economy remained resilient, with GDP growing by 3.1% in Q3, reflecting strong underlying activity. In the Eurozone, inflation followed a similar pattern, rising to 2.2% in November. However, European Central Bank (ECB) indicated that further rate cuts are likely in 2025, emphasizing a clear path forward as region grapples with sluggish growth.

US equities outperformed other regions, driven largely by the earnings of "Magnificent 7" stocks. Emerging markets underperformed developed markets, weighed down by investor concerns over the impact of Trump's proposed tariffs, particularly on China.

Growth stocks outperformed value stocks during the quarter, with large-cap stocks leading gains. Information Technology and Consumer Discretionary were the top performing sectors, fuelled by strong growth in the "Magnificent 7" companies. Conversely, Materials and Healthcare were the weakest sectors during the quarter.

Risks during the quarter included geopolitical tensions and uncertainty surrounding the implication of Trump's proposed trade tariffs.

# **Performance Overview**

In Q4 2024, the I Acc share class of the GS Global Equity Partners ESG Portfolio returned -1.7% on a net basis, underperforming the benchmark MSCI World Index by 150 bps. Since inception, the portfolio has delivered 8.0%, underperforming the benchmark by 163 bps on an annualized net of fees basis.

During the quarter, our positioning within **Information Technology** and stock selection in **Communication Services** sectors supported portfolio returns, while our positions in **Health Care** and **Materials** sectors detracted the most from relative returns. From a country perspective, our positions in **Taiwan** and **France** supported performance while our holdings in the **US** and **Netherlands** detracted the most from relative returns.



# Performance Commentary

Top Contributors	Ending Weight (%)	Relative Contribution (bps)	Top Detractors	Ending Weight (%)	Relative Contribution (bps)
Marvell Technology	2.1	+97	DSM-Firmenich	2.4	-97
Morgan Stanley	4.2	+66	American Tower Corporation	2.0	-59
Salesforce	3.0	+58	AstraZeneca	2.0	-58
TSMC	1.9	+43	Danaher Corporation	2.9	-56
Amazon	5.4	+37	Estee Lauder Companies	1.7	-53

### Top contributors to portfolio performance

**Marvell Technology**, an American fabless semiconductor company, was the biggest contributor to relative returns during the month. The stock outperformed on the back of a strong earnings report in December where the company demonstrated strong momentum in AI revenues driven by Amazon (Marvell's AI chips customer) and strong demand for broader AI infrastructure. The company also provided better than expected guidance for its revenues which also contributed to the stock's outperformance. We continue to like the name as management remains confident that demand tailwinds for their AI products will continue, driven by growth in existing customers and new customers using Marvell products, which would further drive strong earnings growth going forward.

**Morgan Stanley**, an American multinational investment bank and financial services company, was the other key contributor to relative returns during the quarter. The main driver of positive stock performance was Trump's win in the US Presidential elections. With Trump winning the US election, there are expectations of higher for longer US interest rates, lower regulations and pickup in capital markets activity, factors that would potentially benefit the company. We expect the company to continue inflows in mid-high single digit driven by market share gains, leveraging workplace and retail channel through acquisition of Solium and E\*Trade. A capital-light model and improvement in returns over the past also adds to our optimism on the stock.

### Top detractors to portfolio performance

**DSM-Firmenich**, a Dutch-based innovator in nutrition, health, and beauty, was another key detractor from returns during the quarter. The stock underperformed on the back of a macro-driven risk off environment impacting higher beta businesses such as Consumer Chemicals. It was also partly impacted due to profit booking by investors post a strong YTD performance. Whilst the company indicated a stronger guidance than originally expected in the latest respective quarterly updates, the market is cautious around this year's recovery not being replicated to the same degree into 2025. We continue to monitor short term end market dynamics and remain confident in the ability of the stock to likely outperform relevant end markets.

American Tower Corporation, the US-based operator of telecommunications infrastructure, was another key detractor to relative returns during the period. The stock price underperformed as the company faced significant headwinds in India and Latin America, affecting its growth prospects in these regions, which ultimately lead to an exit from the Indian market. Also, Latin America continues to grapple with challenges stemming from issues with Oi, the potential for further consolidation, and the impact of foreign exchange rate fluctuations. We continue to like the company as it is a global tower leader with an attractive business model and sustained demand for its extensive global communications infrastructure portfolio. With global interest rates starting to normalize, this should add to the attractiveness of the offering.



# Portfolio Activity – Key Buys and Sells

During the quarter, we had 8 new initiations and 3 eliminations.

We initiated a position in **ASML**, the Dutch based producer of extreme ultraviolet lithography (EUV) machines used in the production of computer chips and semiconductors for AI applications. ASML is the largest semi cap company in the world, with market share of 21%. We believe there are few pillars which are key to our investment thesis – *Lithography Monopoly, N2 Fab buildout driving EUV demand, and Services growth.* ASML has a monopoly in leading-edge Lithography with 100% share in EUV and is the driving force of ASML's topline growth. We expect strong growth from EUV tools in CY25 as customers like TSMC build capacity for N2, which is the next generation node in semiconductor manufacturing. With continuing growth in Services segment, we expect the company to likely deliver strong returns and strong margin expansion by CY28. Additionally, the valuation premium has reduced considerably compared to the US peers, despite no change in competitive positioning.

We initiated a position in **Cooper Companies**, US based medical device company. The company has two thirds of business in manufacturing and distributing contact lenses with a focus on specialty lenses and the remaining 1/3rd in women's health and fertility products. While there are no synergies between the two divisions, both grow nicely and have demographic tailwinds behind them (increased myopia due to higher screen time and more fertility problems due to women delaying childbirth). Strong **contact lens growth market** and **huge investments** by the company are the key pillars of our investment thesis. Contact lens market is a strong growth market and is relatively recession proof. Cooper is an innovator and market share gainer in the industry. The company has made investments in capacity, distribution, ERP systems and R&D in addition to dilutive M&A in fertility. Recent results have shown margins uplift, unit economics and better cash flows.

We initiated a position in **Eli Lilly & Co**, a US-based multinational pharmaceutical company. The company is a **market leader in obesity and type 2 diabetes (T2D) drugs**. While the company has an attractive portfolio of drugs that help address several health issues like neuroscience, endocrine functions, and animal health products, it has seen tremendous growth from its new GLP-1 drugs, which people have been using for diabetes and weight loss. **Beyond obesity**, the company has a long history of developing drugs to treat a variety of conditions. While it currently has a plethora of drugs in clinical trials, we expect four near-term major drug likely to be launched outside of GLP-1. We have taken advantage of the recent price weakness following the revenue miss to give the portfolio exposure to the fast-growing industry of treatment for obesity and other illnesses.

We initiated a position in **National Grid**, the UK based investor-owned utility company which is focused on the transmission and distribution of electricity and gas. The investment case of National Grid is driven by its **key role in enabling the energy transition**. We believe the company is poised to benefit from the increased demand driven by increasing adoption of rooftop solar and should be able to make an attractive return on investments/equity as it operates under a stable and attractive regulatory environment both in the UK and in the US. On financial front, the company is now funded for two years beyond the five-year plan which implies very secure 10% RAB (Regulated Asset Base) growth and 6-8% EPS growth. There are few utilities with comparable visibility on earnings growth.

We initiated a position in **UnitedHealth** (UNH), a US based player with significant scale in health insurance (commercial, Medicare and Medicaid) as well as several businesses that combined fall under its Optum brand. Here the company also offers care delivery (physicians and long-term care facilities), pharmacy benefit management as well as a healthcare IT business. We are taking advantage of the share price weakness as we believe UNH is well positioned to improve its profitability in 2025. Additionally, a Republican win is likely to make that path easier as pressure on premiums is likely to be less severe under the new administration. Structurally, we think UNH is a well-positioned managed care company, and its vertically integrated business model can improve care at lower costs in a transition to a value-based-care model.

We initiated a position in **Home Depot**, an American multinational home improvement retail corporation. Founded in 1978, Home Depot is the world's largest home improvement retailer offering products across categories including lawn & garden, appliances, electrical, lighting and building materials. Post the COVID normalization, we believe the home improvement spends have bottomed out and are likely to inflect. Additionally, rate cuts stand to benefit the space in multiple ways including recovery in Existing Home Sales, reduction in HELOC (Home Equity Line of Credit) borrowing costs and increasing discretionary spending. Within this backdrop, Home Depot has been successfully gaining market share long-term at the cost of smaller traditional retailers, which is likely to continue. Driven by its scale of operations and supply chain / distribution infrastructure, Home Depot has notable business productivity which should be hard to replicate. Additionally, the company has been investing in the Complex Pro (small homebuilders, large-scale renovators) opportunity which should further increase growth prospects and TAM given strong right-to-win. Home Depot's leadership is renowned in the industry with strong execution and capital allocation.

Discovery Life Investment Services (Pty) Ltd, branded as Discovery Invest, is an authorised financial services provider. Company registration number 2007/005969/07.



We initiated a position in **GE Vernova**, an US-based energy equipment manufacturing and services company. After an extended cyclical downturn with several operational issues along the way, GEV is at the beginning of their next significant gas turbine cycle with the potential for a return to growth in their nuclear business with wind less of a concern. GEV fits 3 of our investment frameworks: Supply / Demand Tension, Cost Structure Change and Consolidation. The core of GEV's profitability comes from the Gas Power business where GE sells industrial gas turbines to utility and industrial users with decades of higher profit service revenue following the initial sale. Gas power has emerging as the likely preferred power source for AI and reshoring which GE Vernova will be a primary beneficiary. GEV has a leading position in small modular reactors, as well as content on 65 of the current 90 nuclear power sites in the U.S. We see the potential for order growth over the next 2-years from both of these businesses to support earnings power in the out-years vs. 2023 contribution of only \$1bn of sales annually or 2.5% of sales focused on services. GEV is currently winding down their off-shore wind operations and domestic on-shore wind is at a crossroads as policy and usefulness given current power needs. We see the return of growth in on-shore as a positive contributor to growth as they earn low-double digit EBIT margins, but a shift towards more gas or nuclear would be even more valuable.

We initiated a new position in **Hermes**, a French luxury design house and manufacturer. Hermes delivers consistent share gains in the strong luxury industry as a result of their scale, strong customer base, and high quality management team. Hermes scale drives continued share gains as the company can invest in marketing and capex to continue to drive the flywheel. Hermes management is very long term oriented and has consistently shown to protect the brand above all else with a track record of exceptionally consistent execution. ROCE has consistently remained very high over time (consistently >20%). Hermes customer base is one of the highest end among luxury peers and the timeless, "quiet" nature of their products make them less at risk of shifts in fashion. Hermes is committed to controlled supply growth (6-7% pa) as they are focused on upmost quality and desirability which drives persistently low supply relative to demand. This also makes them one of the most resilient luxury companies during downturns given the more timeless nature of their products, the persistently low supply, their exposure to ultra high net worth individuals, and their high degree of vertical integration. Also, Hermes has very limited controversies around labour and customer relations.

Moving to exits, we sold out of our position in **Nike**, the US based supplier of athletic shoes and apparel, due to changed conviction. The competitive dynamics in the space have changed post the entry of new players like ON and Hoka. These players have been able to gain customer traction at the cost of Nike which has seen deterioration in customer base and poor channel checks. Additionally, the company's turnaround revolves around product innovation but given lower ambiguity, we feel the turnaround will take longer and will potentially be more expensive than initially expected. Hence, we are eliminating the stock and allocating capital elsewhere.

We sold out of **Nestle**, the Swiss multinational food and drink processing conglomerate on the back of changed conviction. Nestle's capital market day was reassuring and did indicate towards the end of downward revisions. The event focused on medium-term growth and return to high double digits operating margin. However, it seems unlikely for the company to gain further margin expansion and reaching the previous guidance range. Combined with high leverage and thus, halt of the share buy-back programme means EPS growth is likely to be muted over the next 3 years. While shares remained attractively valued, turnaround stories in the Staples sector takes a long time and with stock offering limited upside potential, we had a change in conviction. As such, we decided to eliminate the stock and allocate capital elsewhere.

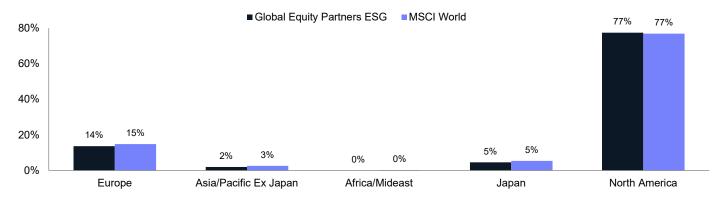
We sold out of **Neste**, a Finnish producer of Renewable Diesel and Sustainable Aviation Fuel. The stock has been a long-term holding in GEP and one of the key underperformers over the last ~12 months. The primary reason for weakness in the share price has been a drastic change in the supply/demand dynamics in renewable fuel markets. Over the last 12 months, a strong wave of capacity additions coupled with negative, regulatory driven downside surprises on the demand side have tipped the market into oversupply putting pressure on results. In addition to the negative market dynamics, there have been some company specific issues, such as operational missteps in ramping-up new renewable refining capacity, further weighing on shares. While we are somewhat comfortable on company-specific issues, our medium-term outlook for the industry is a bit challenged. Hence, we are exiting the stock on reduced conviction.



### SECTORAL POSITIONING



## **REGIONAL POSITIONING**



## **COUNTRY POSITIONING**

Country	Portfolio (%)	MSCI World (%)	Active (%)
United States	77.5	73.8	3.7
Netherlands	4.4	1.1	3.3
Taiwan	1.9	0.0	1.9
United Kingdom	4.8	3.4	1.3
Sweden	2.0	0.8	1.2
Spain	1.6	0.6	0.9
Japan	4.6	5.4	-0.8

Source: Source: FactSet, MSCI as of December 2024. Goldman Sachs Asset Management, December 2024

# TOP 10 HOLDINGS

Company Name	Portfolio (%)	MSCI World (%)	Active (%)
Microsoft	7.2	4.3	2.9
Amazon	5.4	3.0	2.4
Morgan Stanley	4.2	0.2	4.0
S&P Global	4.1	0.2	3.9
Alphabet	4.0	3.0	1.0
NVIDIA	3.8	4.7	-0.9



Northern Trust Corporation	3.0	0.0	3.0
Waste Management	3.0	0.1	2.9
Salesforce	3.0	0.5	2.5
Procter & Gamble	3.0	0.6	2.4

This Discovery Global Portfolio is managed and provided to you by Discovery Mauritius Asset Management and utilises asset allocations provided by Goldman Sachs. Goldman Sachs does not provide any service or product to you, and has not considered the suitability of its asset allocations against individual needs, objectives and risk tolerances for investors. As such, Goldman Sachs's asset allocations do not constitute investment advice or an offer to sell or a solicitation of an offer to buy any securities.

Your capital is at risk and you may lose some or all of the capital you invest. There is no guarantee that these objectives will be met. The economic and market forecasts presented herein are for informational purposes as of the date of this presentation. There can be no assurance that the forecasts will be achieved. Please see additional disclosures at the end of this presentation. These examples are for illustrative purposes only and are not actual results. If any assumptions used do not prove to be true, results may vary substantially.

Any mention of an investment decision is intended only to illustrate our investment strategy and is not indicative of the performance of our strategy as a whole. It should not be assumed that any investment decisions shown will prove to be profitable or any future investment decisions will be profitable or equal the performance of the investments discussed herein. The holdings and/or allocations shown may not represent all of the strategy's investments. Please contact your Goldman Sachs Asset Management representative to obtain the calculation methodology used to determine the holdings presented above as well as each holding's contribution to performance and a complete list of past recommendations. Please see additional disclosures.



#### Disclaimer:

The Discovery Share Portfolios are managed and provided to you by Discovery Life Limited and utilize share allocations provided by Goldman Sachs Asset Management. The commentary provided above is based on the underlying Goldman Sachs Portfolio strategy. Actual holdings, as implemented by Discovery Life Limited, may differ. Goldman Sachs Asset Management does not provide any service or product to you, and has not considered the suitability of its asset allocations against individual needs, objectives and risk tolerances for investors. As such, Goldman Sachs Asset Management's asset allocations do not constitute investment advice or an offer to sell or a solicitation of an offer to buy any securities. Goldman Sachs Asset Management are registered trademarks of Goldman Sachs International and its affiliates ('Goldman Sachs') and are used under license. Goldman Sachs Asset Management has licensed certain trademarks and trade names of Goldman Sachs Asset Management to Discovery Life Limited. The Licensee Product/Service is not sponsored, endorsed, sold, or promoted by Goldman Sachs Asset Management. Goldman Sachs Asset Management makes no representations or warranties to the owners of the Licensee Product/Service or any member of the public regarding the Licensee Product/Service. Goldman Sachs Asset Management has no obligation or liability in connection with the operation, marketing, trading or sale of any product or service offered by Discovery Life Limited.

Discovery Life Investment Services Pty (Ltd): Registration number 2007/005969/07, branded as Discovery Invest, is an authorised financial services provider. Product rules and terms and conditions apply.

The views and opinions expressed in this article are for information purposes only and should not be seen as advice as defined in the Financial Advisory and Intermediary Services Act. Discovery shall not be liable for any actions taken by any person based on the correctness of this information. For full details on the products, benefits and any conditions, please refer to the relevant fact file. For tailored financial advice, please contact your financial adviser.

For the full CIS disclosure and risk statement, go to:

CIS disclosure: <u>http://www.discovery.co.za/assets/discovery.coza/corporate/cis-disclosure.pdf</u> Risk disclosure:

http://www.discovery.co.za/assets/discoverycoza/corporate/risk-disclosure.pdf

Emerging markets securities may be less liquid and more volatile and are subject to a number of additional risks, including but not limited to currency fluctuations and political instability. Diversification does not protect an investor from market risk and does not ensure a profit.

Past performance does not guarantee future results, which may vary. The value of investments and the income derived from investments will fluctuate and can go down as well as up. A loss of principal may occur.

#### Index Benchmarks

Indices are unmanaged. The figures for the index reflect the reinvestment of all income or dividends, as applicable, but do not reflect the deduction of any fees or expenses which would reduce returns. Investors cannot invest directly in indices.

The indices referenced herein have been selected because they are well known, easily recognized by investors, and reflect those indices that the Investment Manager believes, in part based on industry practice, provide a suitable benchmark against which to evaluate the investment or broader market described herein. The exclusion of "failed" or closed hedge funds may mean that each index overstates the performance of hedge funds generally.

References to indices, benchmarks or other measures of relative market performance over a specified period of time are provided for your information only and do not imply that the portfolio will achieve similar results. The index composition may not reflect the manner in which a portfolio is constructed. While an adviser seeks to design a portfolio which reflects appropriate risk and return features, portfolio characteristics may deviate from those of the benchmark. An investor should only invest if he/she has the necessary financial resources to bear a complete loss of this investment.

#### Capital is at risk.

This material contains information that discusses general market activity, industry or sector trends, or other broad-based economic, market or political conditions. It also pertains to past performance or is the basis for previously-made discretionary investment decisions.

#### Disclosures:

This material is provided at your request solely for your use.

There is no guarantee that objectives will be met.

#### Past performance does not guarantee future results, which may vary.

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. Prospective investors should inform themselves as to any applicable legal requirements and taxation and exchange control regulations in the countries of their citizenship, residence or domicile which might be relevant.

This material is provided for informational purposes only and should not be construed as investment advice or an offer or solicitation to buy or sell securities. This material is not intended to be used as a general guide to investing, or as a source of any specific investment recommendations, and makes no implied or express recommendations concerning the manner in which any client's account should or would be handled, as appropriate investment strategies depend upon the client's investment objectives.

Although certain information has been obtained from sources believed to be reliable, we do not guarantee its accuracy, completeness or fairness. We have relied upon and assumed without independent verification, the accuracy and completeness of all information available from public sources.

Views and opinions expressed are for informational purposes only and do not constitute a recommendation by Goldman Sachs Asset Management to buy, sell, or hold any security. Views and opinions are current as of the date of this presentation and may be subject to change, they should not be construed as investment advice.

This document has been issued by Goldman Sachs International, authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority.

#### **Offering Documents**

This material is provided at your request for informational purposes only and does not constitute a solicitation in any jurisdiction in which such a solicitation is unlawful or to any person to whom it is unlawful. It only contains selected information with regards to the fund and does not constitute an offer to buy shares in the fund. Prior to an investment, prospective investors should carefully read the latest Key Investor Information Document (KIID) as well as the offering documentation, including but not limited to the fund's prospectus which contains inter alia a comprehensive disclosure of applicable risks. The relevant articles of association, prospectus, supplement, KIID and latest annual/semi-annual report are available free of charge from the fund's paying and information agent and/or from your financial adviser.

#### **Distribution of Shares**

Shares of the fund may not be registered for public distribution in a number of jurisdictions (including but not limited to any Latin American, African or Asian countries). Therefore, the shares of the fund must not be marketed or offered in or to residents of any such jurisdictions unless such marketing or offering is made in compliance with applicable exemptions for the private placement of collective investment schemes and other applicable jurisdictional rules and regulations.

#### **Investment Advice and Potential Loss**

Financial advisers generally suggest a diversified portfolio of investments. The fund described herein does not represent a diversified investment by itself. This material must not be construed as investment or tax advice. Prospective investors should consult their financial and tax adviser before investing in order to determine whether an investment would be suitable for them.

#### Swing Pricing

Please note that the fund operates a swing pricing policy. Investors should be aware that from time to time this may result in the fund performing differently compared to the reference benchmark based solely on the effect of swing pricing rather than price developments of underlying instruments.

The Global Industry Classification Standard (GICS) was developed by and is the exclusive property and a service mark of Morgan Stanley Capital International Inc. (MSCI) and Standard & Poor's, a division of The McGraw-Hill Companies, Inc. (S&P) and is licensed for use by Goldman Sachs. Neither MSCI, S&P nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special.



This information should not be construed as a current recommendation, research or investment advice. It should not be assumed that any investment decisions shown will prove to be profitable, or that any investment decisions made in the future will be profitable or will equal the performance of investments discussed herein. Any mention of an investment decision is intended only to illustrate our investment approach and/or strategy, and is not indicative of the performance of our strategy as a whole. Any such illustration is not necessarily representative of other investment decisions.

This material has been prepared by Goldman Sachs Asset Management and is not financial research nor a product of Goldman Sachs Global Investment Research. It was not prepared in compliance with applicable provisions of law designed to promote the independence of financial analysis and is not subject to a prohibition on trading following the distribution of financial research. The views and opinions expressed may differ from the views and opinions expressed by Goldman Sachs Global Investment Research or other departments or divisions of Goldman Sachs and its affiliates. Investors are urged to consult with their financial advisors before buying or selling any securities. This information should not be relied upon in making an investment decision. punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

Portfolio Holdings may not be representative of current or future investments. The securities discussed may not represent all of the portfolio's holdings and may represent only a small percentage of the strategy's portfolio holdings. Future portfolio holdings may not be profitable.

Economic and market forecasts presented herein reflect a series of assumptions and judgments as of the date of this presentation and are subject to change without notice. These forecasts do not take into account the specific investment objectives, restrictions, tax and financial situation or other needs of any specific client. Actual data will vary and may not be reflected here. These forecasts are subject to high levels of uncertainty that may affect actual performance.

Accordingly, these forecasts should be viewed as merely representative of a broad range of possible outcomes. These forecasts are estimated, based on assumptions, and are subject to significant revision and may change materially as economic and market conditions change. Goldman Sachs has no obligation to provide updates or changes to these forecasts. Case studies and examples are for illustrative purposes only.

This material is provided for informational purposes only and should not be construed as investment advice or an offer or solicitation to buy or sell securities. This material is not intended to be used as a general guide to investing, or as a source of any specific investment recommendations, and makes no implied or express recommendations concerning the manner in which any client's account should or would be handled, as appropriate investment strategies depend upon the client's investment objectives.

Any reference to a specific company or security does not constitute a recommendation to buy, sell, hold or directly invest in the company or its securities. It should not be assumed that investment decisions made in the future will be profitable or will equal the performance of the securities discussed in this document.

#### Effect of Fees:

The following table provides a simplified example of the effect of management fees on portfolio returns. Assume a portfolio has a steady investment return, gross of fees, of 0.5% per month and total management fees of 0.05% per month of the market value of the portfolio on the last day of the month. Management fees are deducted from the market value of the portfolio on that day. There are no cash flows during the period. The table shows that, assuming all other factors remain constant, the difference increases due to the compounding effect over time. Of course, the magnitude of the difference between gross-of-fee and net-of-fee returns will depend on a variety of factors, and this example is purposely simplified.

Period	Gross Return	Net Return	Differential	
1 year	6.17%	5.54%	0.63%	
2 years	12.72	11.38	1.34	
10 years	81.94	71.39	10.55	

#### Confidentiality

No part of this material may, without Goldman Sachs Asset Management 's prior written consent, be (i) copied, photocopied or duplicated in any form, by any means, or (ii) distributed to any person that is not an employee, officer, director, or authorized agent of the recipient.

In the United Kingdom, this material is a financial promotion and has been approved by Goldman Sachs Asset Management International, which is authorized and regulated in the United Kingdom by the Financial Conduct Authority.

© 2023 Goldman Sachs. All rights reserved. Compliance Code: 234086-TMPL-03/2021-1372880