Goldman Alternatives **Sachs**

Charting New Routes



Macroeconomics

Private market investors are more optimistic about investment opportunities than they were last year, as inflation has moderated and valuations have begun to adjust. While concerns about recession risk and inflation have tempered, greater focus is being placed on geopolitical conflicts and still-elevated valuations.

Allocations

Limited Partners (LPs) continue to build toward their private credit and infrastructure targets as private market allocations become more diverse, and they are increasing deployment levels but focusing on fewer relationships. The balance of LPs remains under-allocated across private market strategies, with challenges around over-allocations to private equity largely centered with LPs in the Americas.

Value Creation

General Partners (GPs) are focused on driving revenue growth at their portfolio companies and looking towards interim liquidity solutions, including continuation vehicles and dividend recaps, to drive liquidity for LPs. Buyer/seller valuation gaps are hindering transaction activity on both the acquisition and disposition sides, with macro uncertainty also constraining exits.

Industry Evolution

The private markets industry continues to evolve, with GPs expanding their offerings and nearly a third leveraging or evaluating the use of an equity stake sale to capitalize the management company. LPs are moving beyond the typical drawdown structure, with interest in semi-liquid vehicles expanding to include equity strategies.

Sustainability

Sustainability remains a key focus for larger LPs and those outside the Americas, while more than 50% of LPs in the Americas do not have sustainable investment goals. GPs, focused on raising capital globally, broadly report greater progress in achieving sustainable investing goals.

Introduction

After finding last year that investors and managers were *Staying the Course* in alternatives, the *2024 Private Markets Diagnostic Survey* shows that they are now *Charting New Routes* across a dynamic investment landscape. Optimism is growing across asset classes, with concerns around macro factors including recession, rates, and inflation falling, while risks due to geopolitical tensions and elevated valuations were seen to increase. As confidence grows, investors are building allocations into new areas of private markets, driving under-allocations for many LPs—particularly in growing areas such as private credit and infrastructure as well as different access points including secondaries and co-investments.

Liquidity is top of mind for many investors, and fund managers are increasingly exploring liquidity solutions as exits continue to be hindered by lingering macro uncertainty and valuation disconnects between buyers and sellers. LPs are also looking for greater control over their liquidity profiles, building allocations in semi-liquid vehicles across asset classes, as well as increasing engagement with the secondary market to explore liquidity options.

The industry continues to evolve, adapting to the new investing environment, as well as new technologies. Al was again highlighted as the top driver of industry evolution, and with higher rates and elevated valuations, GPs are focused on growing top-line revenue to build value at their portfolio investments. Managers are also expanding their product offerings and fortifying their balance sheets with outside capital, as industry consolidation becomes a more common theme and LPs continue to focus on investing capital with fewer managers.

As fundraising dynamics remain in flux, LPs are scrutinizing fund terms and fees more closely while GPs are emphasizing their sector expertise and differentiated sourcing. Larger LPs are focused on co-investment opportunities, customized solutions, and sustainability—though more than half of investors in the Americas lack sustainable investment goals. GPs, on the other hand, show strong adoption of sustainability, particularly as they seek out LPs in EMEA and Asia where sustainable investing is in greater focus.

Sentiment is slowly shifting from cautious to courageous, with both investors and fund managers increasingly willing to explore new strategies and investment approaches. Entering this new terrain, investors will need to remain vigilant and ensure they have the tools, resources, and expertise to forge ahead.

SECTION 01

Macroeconomics

'Investor sentiment is broadly improving, even in asset classes such as real estate, which faced headwinds over the last two years. LP focus on macro risks, which were top of mind last year, have eased with inflation moderating and rates coming down. Concerns about inflated valuations, however, and associated impacts on trading volumes remain."

Jeff Fine

Global Co-Head of Alternatives Capital Formation, Goldman Sachs Asset Management

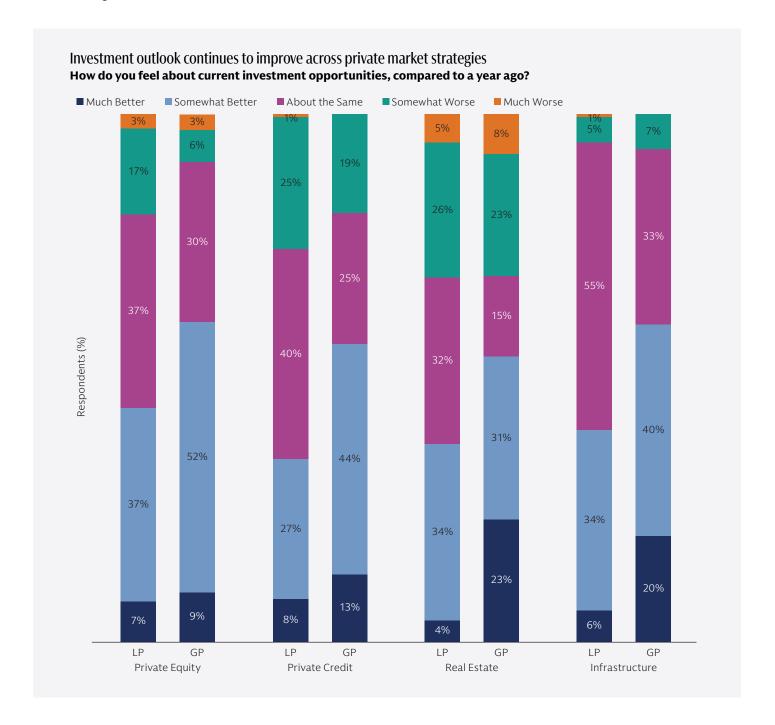
60%

of respondents believe that geopolitical conflict is one of the top three investment risks today.

01 | MACROECONOMICS OCTOBER 2024

Sentiment is broadly positive across asset classes, with GPs taking a more optimistic view than LPs. Net sentiment (% responding Better less % responding Worse) is slightly positive even for real estate—the most challenged asset class—with 38% of LPs seeing better investment opportunities compared to 31% seeing worse. Investors continue to build confidence in

private equity and remain bullish on infrastructure, believing the asset class can continue to deliver consistent performance through the market cycle. Credit is beginning to fall out of favor with nearly a quarter of LPs, but on net investors remain positive on the asset class.



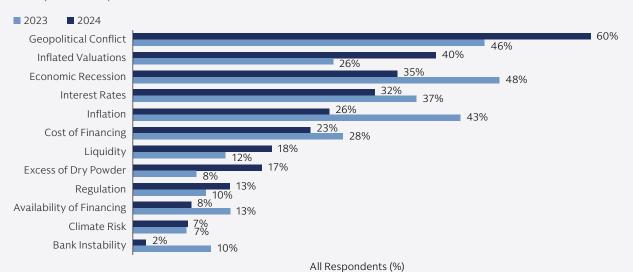
01 | MACROECONOMICS OCTOBER 2024

Geopolitical conflict rose to be the risk factor most in focus, while concern about macro risks including inflation, recession, and interest rates has declined. Aside from geopolitics, inflated valuations saw the biggest increase in perceived risk, moving from

#6 in 2023 to #2. Much of the concern about valuations came from LPs, while GPs are much more concerned about interest rates and regulation than LPs.

Geopolitical conflict is top of mind, overtaking recession risk What do you believe are the greatest investment risks today?

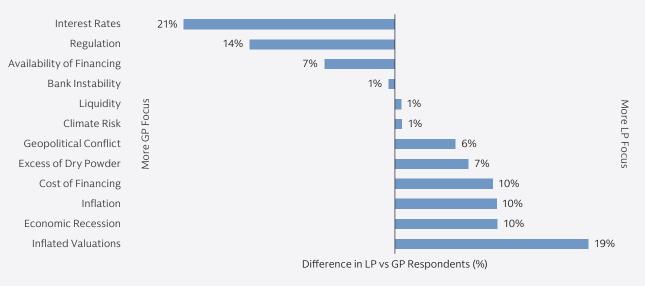
Select up to three responses.

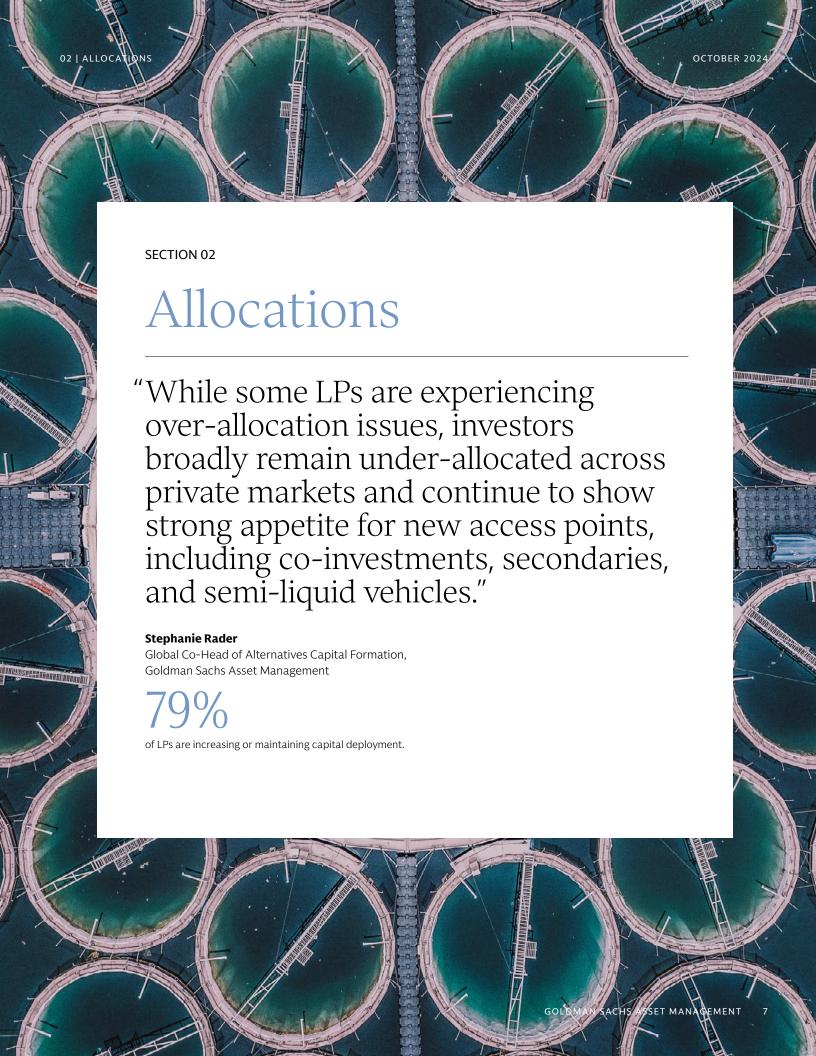


LPs are relatively more focused on downside risks from recession and inflated valuations, while GPs are more concerned with rates and regulation

What do you believe are the greatest investment risks today?

Select up to three responses.

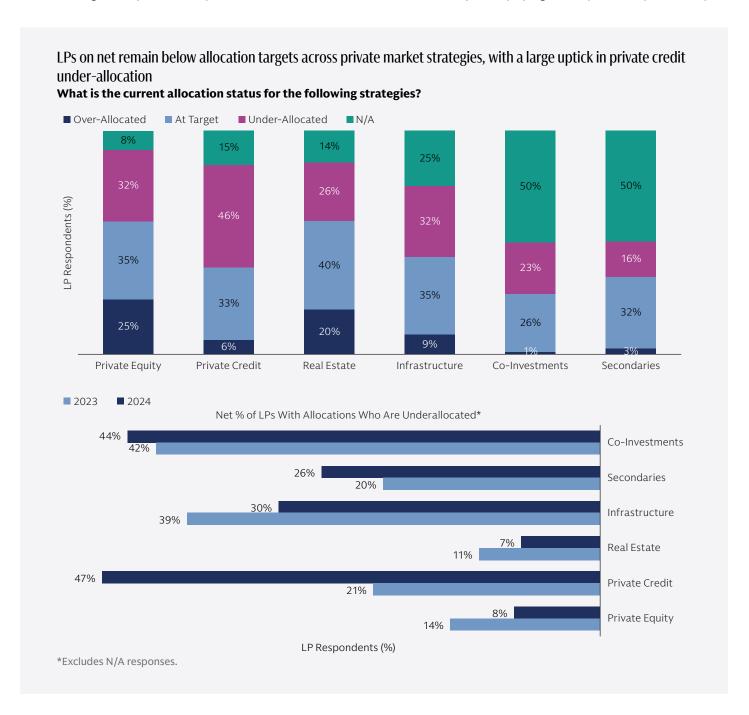


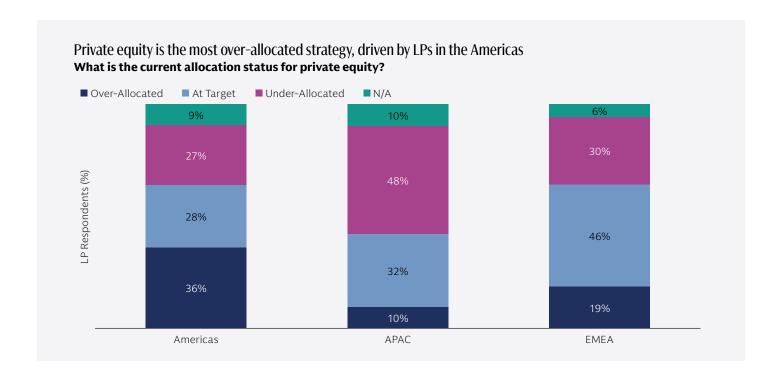


Relative target allocations were largely unchanged from last year's survey, but overall growth in portfolio assets has led to an uptick in absolute targets through a reverse-denominator effect. A large proportion of LPs initiated allocations in new strategies as well. As a result, despite an industry-wide slowdown in distributions, LPs on net remain under-allocated across private market strategies. LPs tend to be under-allocated in asset classes where their allocations are likely to be newer and still growing; more than half of LPs with allocations to private credit are under-allocated, and over 40% with infrastructure allocations are below their targets with a higher proportion of LPs allocating to both strategies compared to last year. On the other hand,

over-allocations were largely concentrated amongst LPs in the Americas in their private equity books, where allocations are likely more mature.

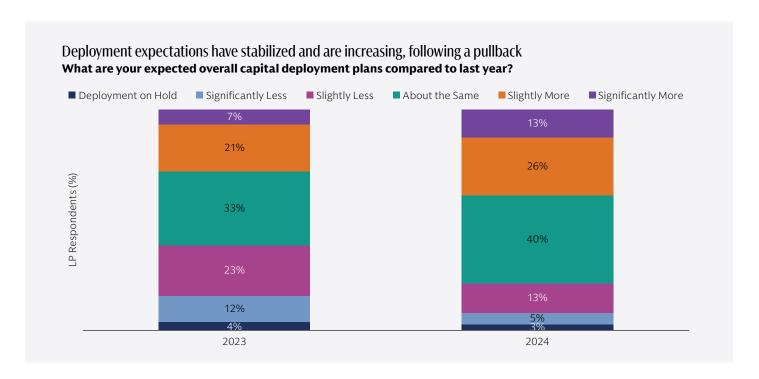
LPs continue to seek out diversification of private market access points, needing additional exposure to secondaries and co-investments to meet target allocations. In co-investments in particular, LPs may be constrained by more than just the opportunity set, with "investment team capacity" and "operational capacity" viewed as their two biggest challenges (see page 22). Roughly half of LPs are now allocating to secondaries and co-investments respectively, up significantly from last year's survey.

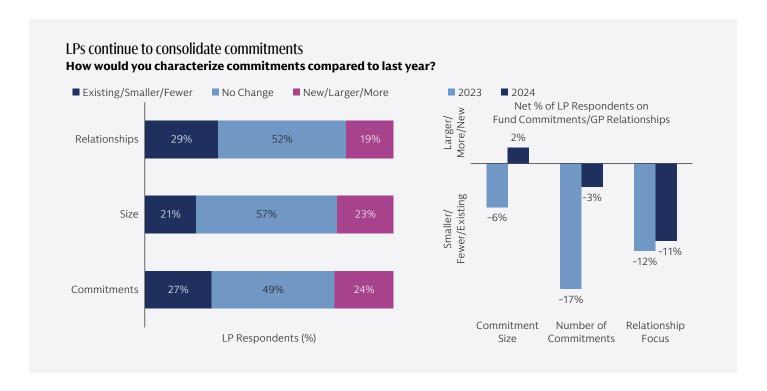




As a result of broad-based under-allocation, 39% of LPs are increasing deployment while only 21% are reducing or putting deployment on hold, down from 39% last year. The theme of consolidation carried over from last year's survey, with a

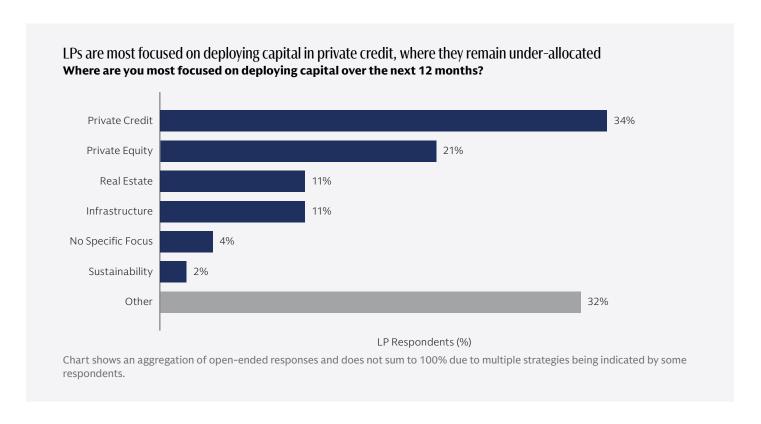
continued trend towards making fewer commitments and investing with pre-existing relationships; the pendulum has swung back towards larger commitments, but we think this is likely attributable to mean reversion rather than an emerging trend.





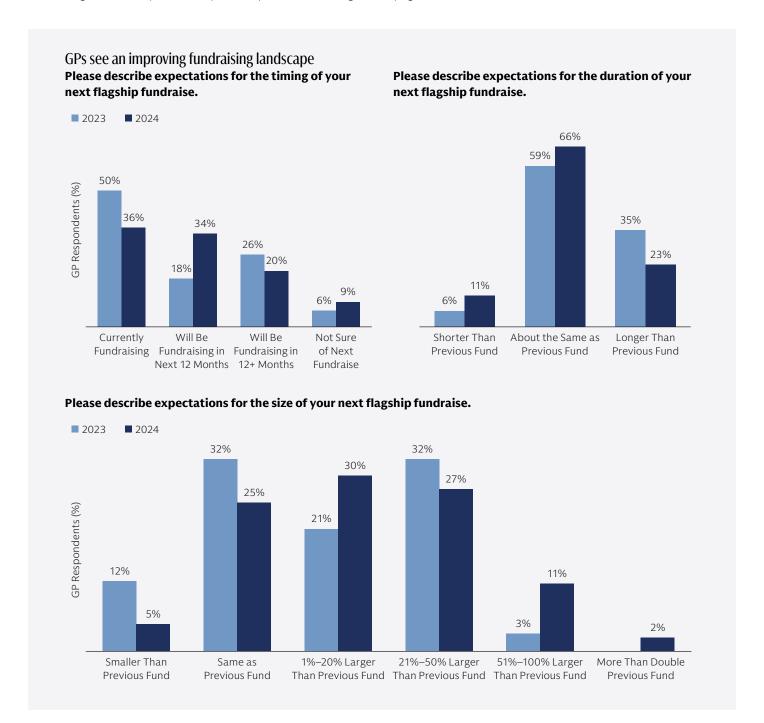
LPs indicated they were most focused on deploying capital into credit strategies, where under-allocation was most pronounced, with over a third describing some form of credit investing as a primary focus in an open-ended question. Private equity

was the next focus area, highlighted by more than 20% of LPs, followed by real estate and infrastructure with about 10% of LPs, respectively.



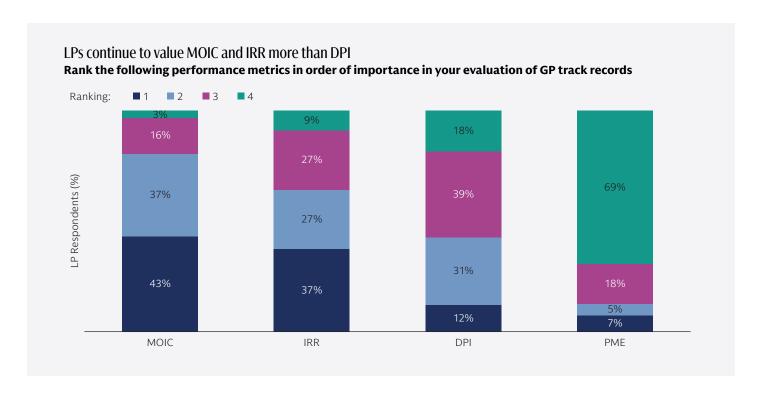
As the denominator effect has eased and allocations have somewhat recalibrated, GPs are more optimistic about fundraising than in last year's survey, with expectations for larger

fund size step-ups and less time spent in the market. Still, raising LP capital remains the main operational concern for GPs (see page 22).



Despite the common refrain of "DPI is the new IRR" and a clear focus from LPs on distribution rates, MOIC again ranks highest: LPs view this performance metric as most important in evaluating

GP track records.¹ Still, a handful of respondents wrote-in some version of distributions or liquidity as being more important than a year ago in evaluating GPs.



^{1.} Distributed-to-paid in (DPI), Internal rate of return (IRR), Multiple on invested capital (MOIC), Public Market Equivalent (PME).

SECTION 03

Value Creation

"At a time when exits have slowed and some perceive valuations as being inflated, GPs are focused on top-line growth as the primary source of value creation."

Amy Jupe

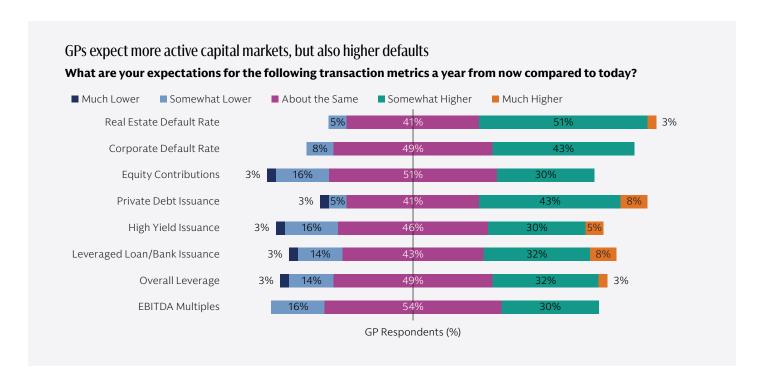
Global Co-Head of the XIG Private Equity Primaries and Global Head of XIG Private Credit, Goldman Sachs Asset Management

63%

of GPs expect to drive value creation by increasing organic revenue through existing channels.

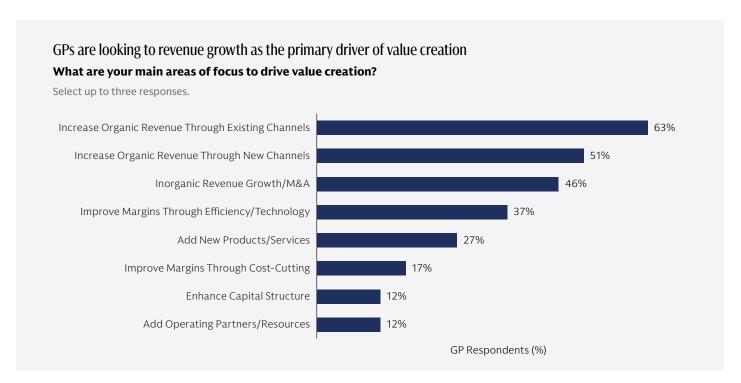
Last year, GPs foresaw significant changes in transaction metrics, including rising issuance and falling valuations—most of which

came to fruition. This year, their outlook is more benign but skewed towards increases in issuance and defaults across asset types.



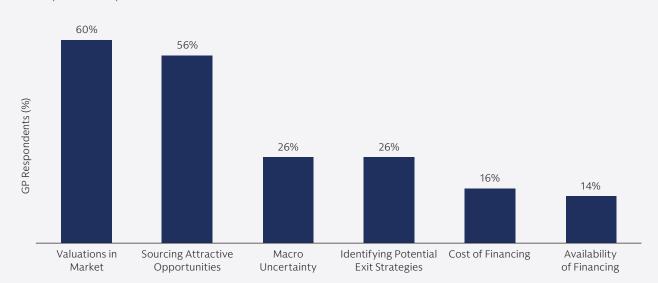
Despite the recent decline in transaction multiples, valuations are still widely viewed as inflated. Valuations and sourcing are seen as the biggest impediments to dealmaking, with macro uncertainty and identifying potential exit strategies tied for third. With transaction multiples unlikely to see a meaningful uptick, it

will likely take additional time to bolster fundamentals and enhance operations to support equity values. GPs see revenue growth (both organic and inorganic) as the biggest focus in this regard. When it comes to exit challenges, GPs were more prone to highlight the macro environment, followed by valuations and financing costs.



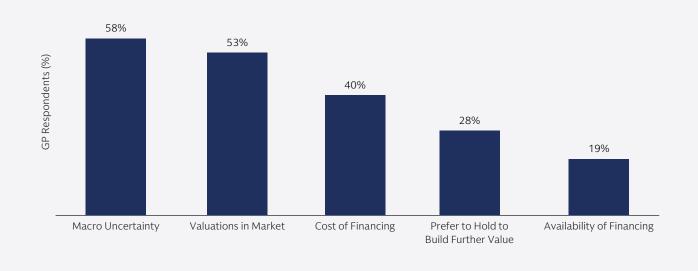
Valuations have been a key headwind for both capital deployment and exit activity What are the greatest challenges for deploying capital today?

Select up to three responses.



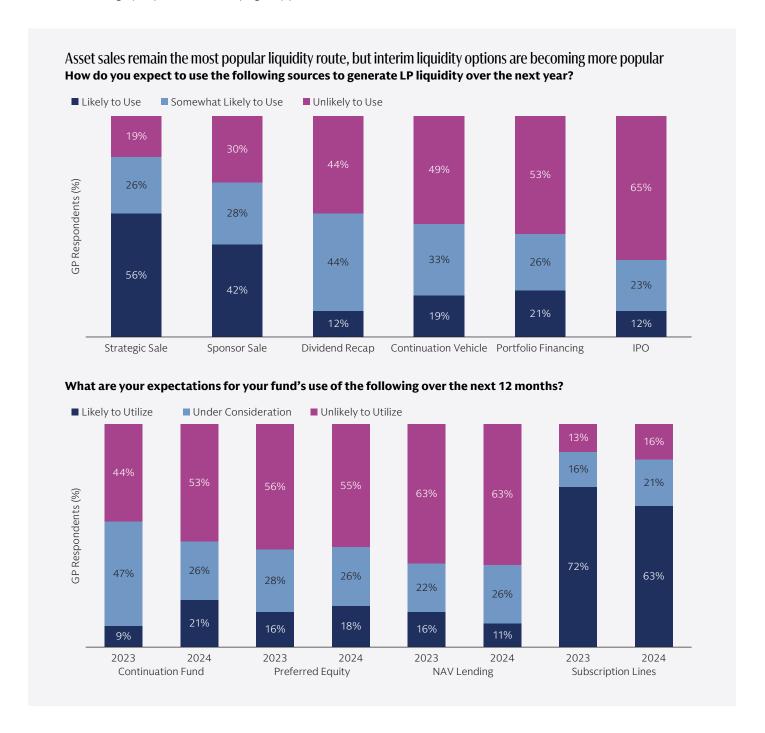
What are the greatest challenges for exiting investments today?

Select up to three responses.



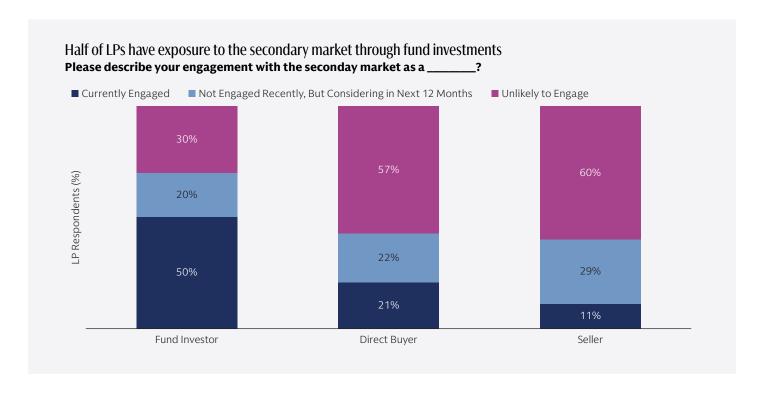
Overall, expected liquidity routes were largely consistent with last year's survey, particularly when seeking a full exit. Strategic sales are still expected to be the main exit route, followed closely by sponsor sales, but there was less optimism for the IPO market. With roughly a quarter of GPs saying they prefer to hold

investments to build further value, there has been heightened demand for interim liquidity solutions, with dividend recaps becoming the most popular option. Continuation vehicles (CVs) and preferred equity are also being considered by nearly half of GPs, while NAV facilities are less in focus.



CVs have seen heightened adoption with sustained high levels of transaction activity, and the proportion of GPs "likely" to use them over the next 12 months rose above 20%—more than double our prior survey. Largely as a result of CVs, secondary market activity in 2024 is pacing towards record levels. Roughly

half of respondents have exposure to the market as LPs in secondary funds, and we saw a slight uptick in the proportion of respondents considering engaging as sellers on the secondary market over the next 12 months.



SECTION 04

Industry Evolution

"GPs are expanding their product offerings both in terms of strategies and structures, and are often looking to outside capital to help fund these expansion plans."

Ali Raissi

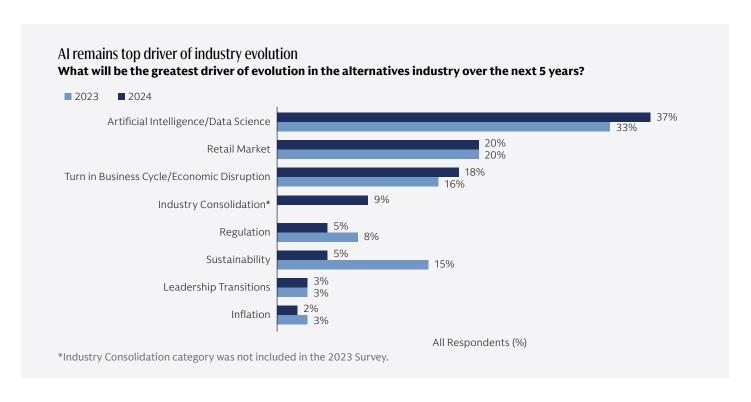
Global Co-Head Petershill Group, Goldman Sachs Asset Management

60%

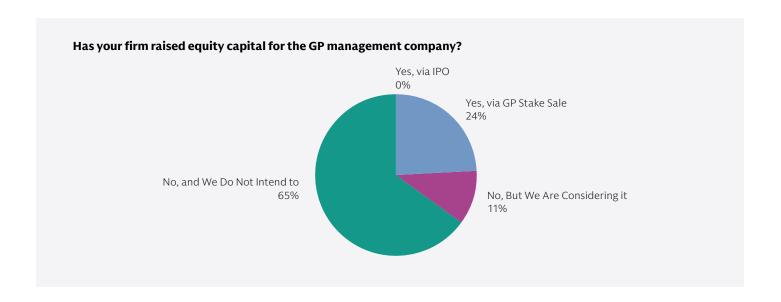
of GPs have expanded their product offering in the last two years.

While Artificial Intelligence (AI) continues to be the main perceived driver of industry innovation in the years ahead, followed by the retail market, the biggest change from last year's survey came from sustainability, which dropped by about 10 percentage points. Industry consolidation—a new option this year—came in at #4. The recent trend of industry consolidation and business line diversification via GP acquisitions is largely being driven by publicly traded GPs with deep balance sheets,

but 60% of GPs have expanded their strategy offering in recent years or intend to. Organically creating new strategies with existing personnel is the most frequent route, followed by hiring a new investing team. To help fund growth plans and facilitate generational transitions, nearly a quarter of GP respondents have raised equity capital through an equity stake sale in their management company, with another 11% considering a transaction.

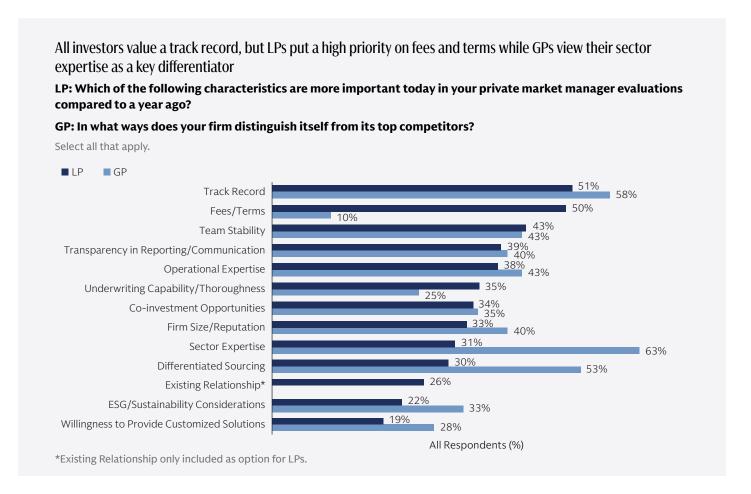


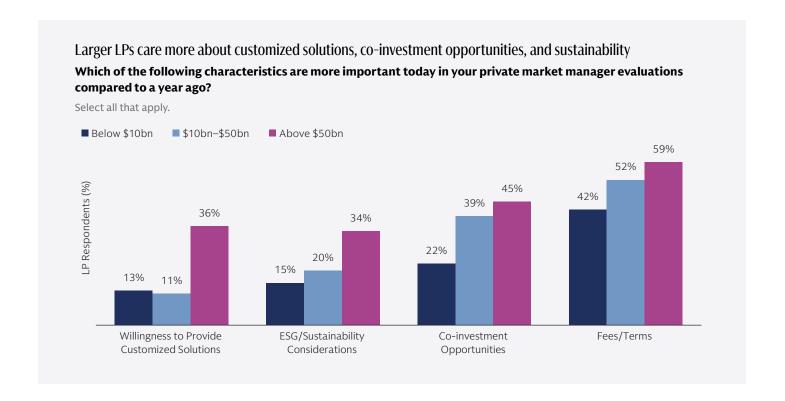




As GPs expand their platforms and product offerings, GPs and LPs agree that track record is at or near the top of the list of distinguishing characteristics for a fund manager, but there are meaningful differences in other areas. Fees/terms are increasingly important for LPs—particularly large ones—when evaluating managers (now second-highest rated), while GPs see it as the

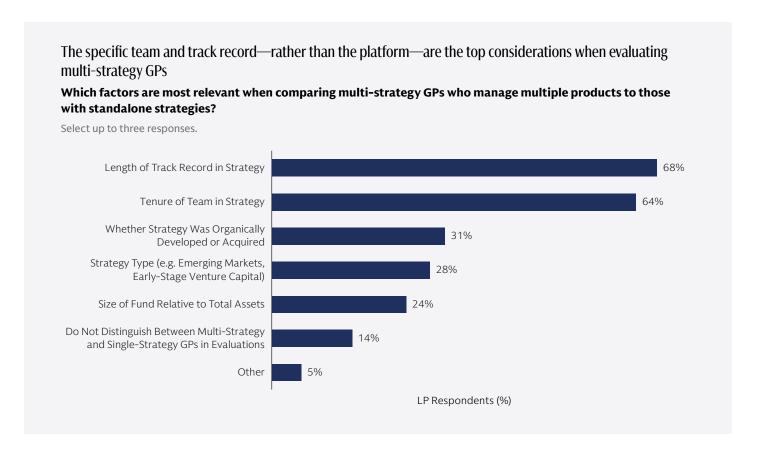
least differentiating factor for their firms. Larger LPs are also more likely to seek out customized solutions and co-investments, both of which can be a means of lowering the overall fee load. For their part, GPs are most inclined to lean on their sector expertise, but this ranks in the bottom half of traits sought by LPs.





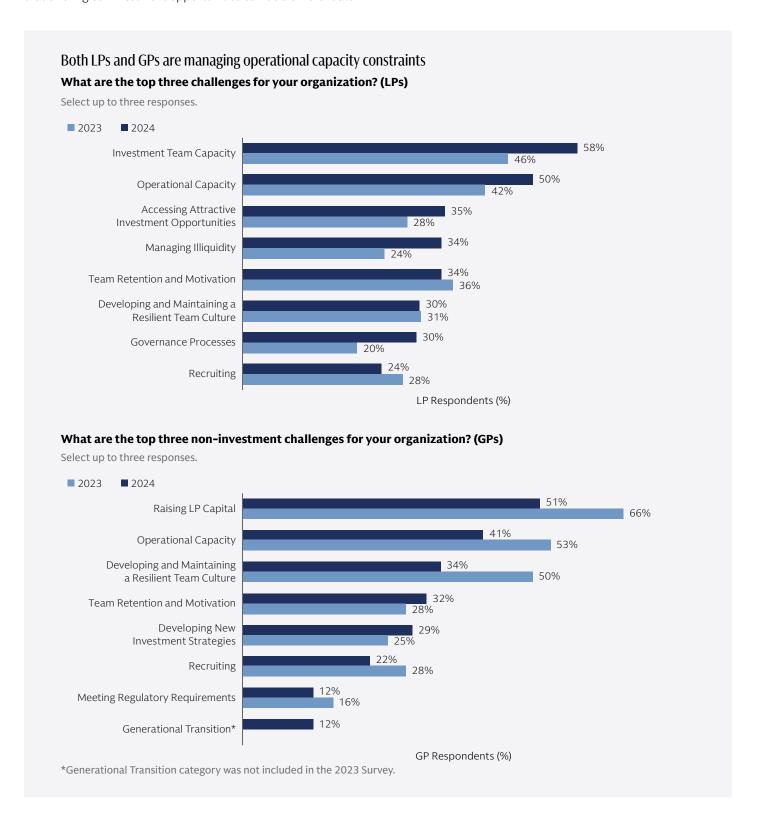
Regardless of a GP's broader platform—comparing single- vs multi-strategy firms—LPs remain most focused on the team and track record behind a particular strategy, rather than its role

within a broader platform or as a standalone strategy; however, whether a strategy was acquired is a key consideration, ahead of both strategy type and fund size.



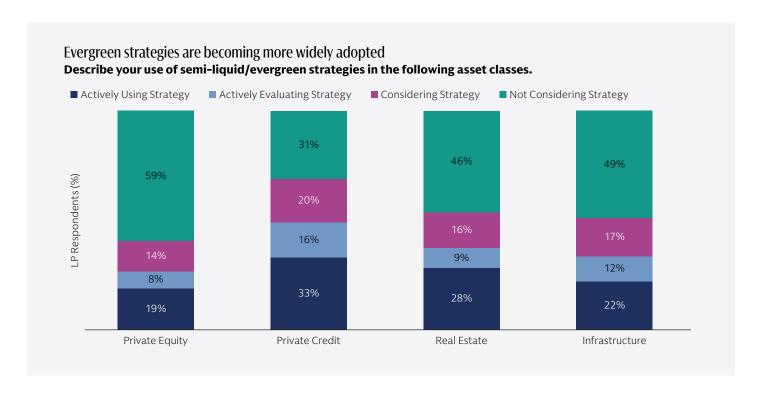
Co-investments is the biggest area of increased focus in LPs' evaluation of managers, and GPs are increasingly appreciating that offering co-investment opportunities can be a differentiator.

However, operational capacity remains a key concern for both LPs and GPs.



Most LPs are currently invested or considering semi-liquid vehicles in private credit and real assets, and 40% are using or considering them for private equity where the structure has only recently begun to become more widely available. With the continued distribution drought across private market strategies, this interest in semi-liquid evergreen strategies on the part of

institutional investors could represent a heightened desire to exert greater control over allocation levels. Investing through semi-liquid vehicles can also be less operationally intensive for LPs, which can be valuable given limited operational and investment team capacity on their end.



OCTOBER 2024

SECTION 05

Sustainability

"We continue to see significant focus on sustainable investment from larger investors and particularly those in EMEA and APAC, but LPs broadly have more work to do to achieve their goals."

John Goldstein

Global Head of Sustainability and Impact Solutions, Goldman Sachs Asset Management

1%

of LPs have achieved their sustainable investing goals.

05 | SUSTAINABILITY OCTOBER 2024

Sustainability remains a key focus for large investors and those outside the Americas. However, over 50% of respondents in the Americas reported they do not have sustainable investment goals, a meaningful increase over the 37% reported in our 2023

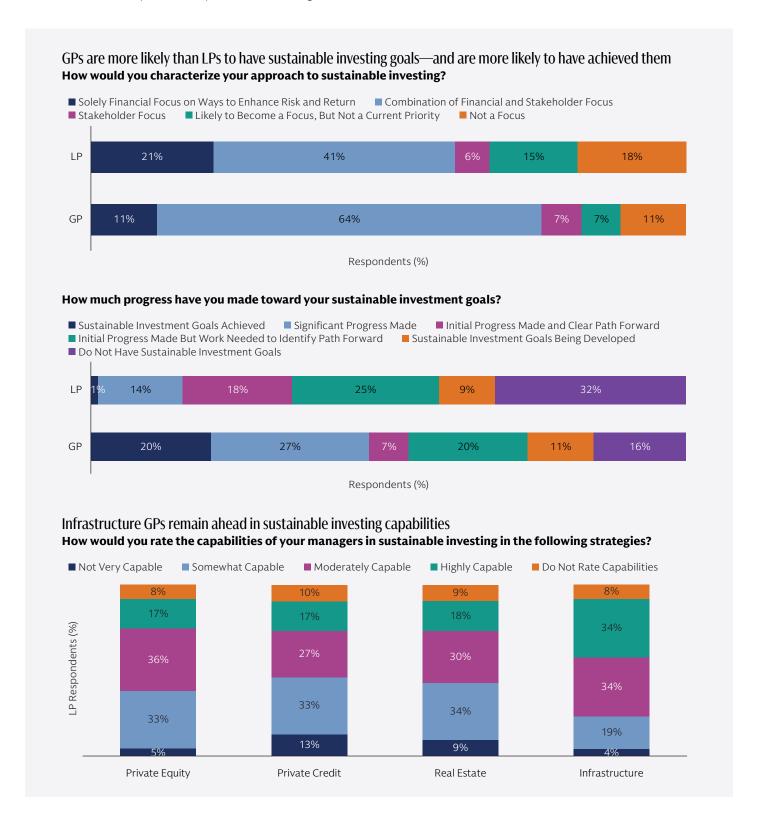
survey. In addition to regional differences, sustainability adoption varied by the asset base of the respondent, with the largest investors more likely to consider sustainability as both a financial and stakeholder focus.



05 | SUSTAINABILITY OCTOBER 2024

GPs, who often raise capital from a global LP base, express a higher sustainability focus than LPs, and 20% of GPs say they have achieved their sustainable investment goals—compared to only 1% of LPs. At the strategy level, infrastructure GPs are still viewed as most capable, while private credit managers were

rated more capable compared to last year, with over 40% of LPs rating them at least moderately capable, compared to last year when only 30% achieved that level. Real estate was effectively unchanged, while private equity improved somewhat.



Conclusion

As the macro backdrop remains relatively stable but uncertain, both LPs and GPs express growing optimism across asset classes. The process of normalization following the COVID pandemic is still underway, with the long-term growth trajectory of private markets remaining strong.

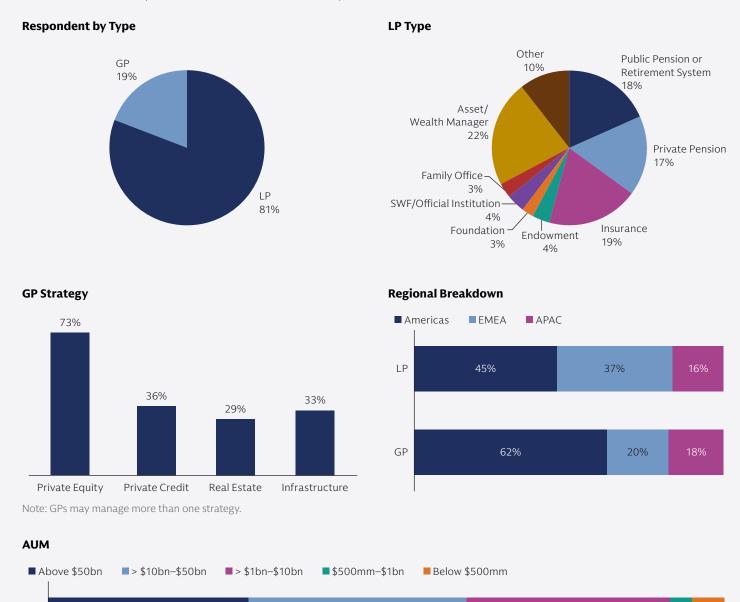
New frontiers in AI, investment vehicles, and value creation are increasingly being explored—both opportunistically and out of necessity. Going forward, we expect LPs and GPs alike to continue adapting to an evolving private markets landscape that is playing an increasingly important role across industries and regions.

LP

30%

Methodology & Demographics

Data for the 2024 Private Markets Diagnostic Survey was collected between June 13 and August 6, 2024, and includes responses from 190 Limited Partner respondents and 45 General Partner respondents from around the world.



GP 16% 13% 47% 11% 13%

32%

Source: Goldman Sachs Asset Management Private Markets Diagnostic Survey as of August 30, 2024. For illustrative purposes only.

Disclosures

Risk Considerations

All investing involves risk, including loss of principal.

Alternative investments are suitable only for sophisticated investors for whom such investments do not constitute a complete investment program and who fully understand and are willing to assume the risks involved in Alternative Investments. Alternative Investments by their nature, involve a substantial degree of risk, including the risk of total loss of an investor's capital.

Alternative Investments often engage in leverage and other investment practices that are extremely speculative and involve a high degree of risk. Such practices may increase the volatility of performance and the risk of investment loss, including the loss of the entire amount that is invested. There may be conflicts of interest relating to the Alternative Investment and its service providers, including Goldman Sachs and its affiliates. Similarly, interests in an Alternative Investment are highly illiquid and generally are not transferable without the consent of the sponsor, and applicable securities and tax laws will limit transfers.

Investors should also consider some of the potential risks of alternative investments:

- Alternative Strategies. Alternative strategies often engage in leverage and other investment practices that are speculative and involve a high degree of risk. Such practices may increase the volatility of performance and the risk of investment loss, including the entire amount that is invested.
- Manager experience. Manager risk includes those that exist within a manager's organization, investment process or supporting systems and infrastructure. There is also a potential for fund-level risks that arise from the way in which a manager constructs and manages the fund.
- Leverage. Leverage increases a fund's sensitivity to market movements. Funds that use leverage can be expected to be more "volatile" than other funds that do not use leverage. This means if the investments a fund buys decrease in market value, the value of the fund's shares will decrease by even more.
- Counter-party risk. Alternative strategies often make significant use of over- the- counter (OTC) derivatives and therefore are subject to the risk that counter-parties will not perform their obligations under such contracts.
- Liquidity risk. Alternatives strategies may make investments that are illiquid or that may become less liquid in response to market developments. At times, a fund may be unable to sell certain of its illiquid investments without a substantial drop in price, if at all.
- Valuation risk. There is risk that the values used by alternative strategies to price investments may be different from those used by other investors to price the same investments.

Alternative Investments - Hedge funds and other private investment funds (collectively, "Alternative Investments") are subject to less regulation than other types of pooled investment vehicles such as mutual funds. Alternative Investments may impose significant fees, including incentive fees that are based upon a percentage of the realized and unrealized gains and an individual's net returns may differ significantly from actual returns. Such fees may offset all or a significant portion of such Alternative Investment's trading profits. Alternative Investments are not required to provide periodic pricing or valuation information. Investors may have limited rights with respect to their investments, including limited voting rights and participation in the

management of such Alternative Investments.

The above are not an exhaustive list of potential risks. There may be additional risks that are not currently foreseen or considered.

Conflicts of Interest

There may be conflicts of interest relating to the Alternative Investment and its service providers, including Goldman Sachs and its affiliates. These activities and interests include potential multiple advisory, transactional and other interests in securities and instruments that may be purchased or sold by the Alternative Investment. These are considerations of which investors should be aware and additional information relating to these conflicts is set forth in the offering materials for the Alternative Investment.

General Disclosures

This material is provided for educational purposes only and should not be construed as investment advice or an offer or solicitation to buy or sell securities.

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.

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 information discusses general market activity, industry or sector trends, or other broad-based economic, market or political conditions and should not be construed as research or investment advice. This material has been prepared by Goldman Sachs Asset Management and is not financial research nor a product of Goldman Sachs Global Investment Research (GIR). 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 those of 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 may not be current and Goldman Sachs Asset Management has no obligation to provide any updates or changes.

THESE MATERIALS ARE PROVIDED SOLELY ON THE BASIS THAT THEY WILL NOT CONSTITUTE INVESTMENT ADVICE AND WILL NOT FORM A PRIMARY BASIS FOR ANY PERSON'S OR PLAN'S INVESTMENT DECISIONS, AND GOLDMAN SACHS IS NOT A FIDUCIARY WITH RESPECT TO ANY PERSON OR PLAN BY REASON OF PROVIDING THE MATERIAL

OR CONTENT HEREIN. PLAN FIDUCIARIES SHOULD CONSIDER THEIR OWN CIRCUMSTANCES IN ASSESSING ANY POTENTIAL INVESTMENT COURSE OF ACTION.

The views expressed herein are as of the date of the publication and subject to change in the future. Individual portfolio management teams for Goldman Sachs Asset Management may have views and opinions and/or make investment decisions that, in certain instances, may not always be consistent with the views and opinions expressed herein.

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 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.

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.

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.

United Kingdom: 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.

European Economic Area (EEA): This financial promotion is provided by Goldman Sachs Asset Management B.V.

This marketing communication is disseminated by Goldman Sachs Asset Management B.V., including through its branches ("GSAM BV"). GSAM BV is authorised and regulated by the Dutch Authority for the Financial Markets (Autoriteit Financiële Markten, Vijzelgracht 50, 1017 HS Amsterdam, The Netherlands) as an alternative investment fund manager ("AIFM") as well as a manager of undertakings for collective investment in transferable securities ("UCITS"). Under its licence as an AIFM, the Manager is authorized to provide the investment services of (i) reception and transmission of orders in financial instruments; (ii) portfolio management; and (iii) investment advice. Under its licence as a manager of UCITS, the Manager is authorized to provide the investment services of (i) portfolio management; and (ii) investment advice. Information about investor rights and collective redress mechanisms are available on am.gs.com/documents. Capital is at risk. Any claims arising out of or in connection with the terms and conditions of this disclaimer are governed by Dutch law.

In the European Union, this material has been approved by either Goldman Sachs Asset Management Funds Services Limited, which is regulated by the Central Bank of Ireland or Goldman Sachs Asset Management B.V, which is regulated by The Netherlands Authority for the Financial Markets (AFM).

Switzerland: For Qualified Investor use only – Not for distribution to general public. This is marketing material. This document is provided to you by Goldman Sachs Asset Management Schweiz Gmbh. Any future contractual relationships will be entered into with affiliates of Goldman Sachs Asset Management Schweiz Gmbh, which are domiciled outside of Switzerland. We would like to remind you that foreign (Non-Swiss) legal and regulatory systems may not provide the same level of protection in

relation to client confidentiality and data protection as offered to you by Swiss law.

Asia excluding Japan: Please note that neither Goldman Sachs Asset Management (Hong Kong) Limited ("GSAMHK") or Goldman Sachs Asset Management (Singapore) Pte. Ltd. (Company Number: 201329851H) ("GSAMS") nor any other entities involved in the Goldman Sachs Asset Management business that provide this material and information maintain any licenses, authorizations or registrations in Asia (other than Japan), except that it conducts businesses (subject to applicable local regulations) in and from the following jurisdictions: Hong Kong, Singapore, Malaysia, India and China. This material has been issued for use in or from Hong Kong by Goldman Sachs Asset Management (Hong Kong) Limited, in or from Singapore by Goldman Sachs Asset Management (Singapore) Pte. Ltd. (Company Number: 201329851H) and in or from Malaysia by Goldman Sachs (Malaysia) Sdn Berhad (880767W).

Hong Kong: This material has been issued or approved for use in or from Hong Kong by Goldman Sachs Asset Management (Hong Kong) Limited, a licensed entity regulated by the Securities and Futures Commission of Hong Kong (SFC). This material has not been reviewed by the SFC.

Singapore: Investment involves risk. Prospective investors should seek independent advice. This advertisement or publication material has not been reviewed by the Monetary Authority of Singapore. This material has been issued or approved for use in or from Singapore by Goldman Sachs Asset Management (Singapore) Pte. Ltd. (Company Number: 201329851H).

Australia: This material is distributed by Goldman Sachs Asset Management Australia Pty Ltd ABN 41 006 099 681, AFSL 228948 ('GSAMA') and is intended for viewing only by wholesale clients for the purposes of section 761G of the Corporations Act 2001 (Cth). This document may not be distributed to retail clients in Australia (as that term is defined in the Corporations Act 2001 (Cth)) or to the general public. This document may not be reproduced or distributed to any person without the prior consent of GSAMA. To the extent that this document contains any statement which may be considered to be financial product advice in Australia under the Corporations Act 2001 (Cth), that advice is intended to be given to the intended recipient of this document only, being a wholesale client for the purposes of the Corporations Act 2001 (Cth). Any advice provided in this document is provided by either of the following entities. They are exempt from the requirement to hold an Australian financial services licence under the Corporations Act of Australia and therefore do not hold any Australian Financial Services Licences, and are regulated under their respective laws applicable to their jurisdictions, which differ from Australian laws. Any financial services given to any person by these entities by distributing this document in Australia are provided to such persons pursuant to the respective ASIC Class Orders and ASIC Instrument mentioned below.

- Goldman Sachs Asset Management, LP (GSAMLP), Goldman Sachs & Co. LLC (GSCo), pursuant ASIC Class Order 03/1100; regulated by the US Securities and Exchange Commission under US laws.
- Goldman Sachs Asset Management International (GSAMI), Goldman Sachs International (GSI), pursuant to ASIC Class Order 03/1099; regulated by the Financial Conduct Authority; GSI is also authorized by the Prudential Regulation Authority, and both entities are under UK laws.
- Goldman Sachs Asset Management (Singapore) Pte. Ltd. (GSAMS), pursuant to ASIC Class Order 03/1102; regulated by the Monetary Authority of Singapore under Singaporean laws
- Goldman Sachs Asset Management (Hong Kong) Limited (GSAMHK), pursuant to ASIC Class Order 03/1103 and Goldman Sachs (Asia) LLC (GSALLC), pursuant to ASIC Instrument 04/0250; regulated by the Securities and Futures Commission of Hong Kong

under Hong Kong laws.

No offer to acquire any interest in a fund or a financial product is being made to you in this document. If the interests or financial products do become available in the future, the offer may be arranged by GSAMA in accordance with section 911A(2)(b) of the Corporations Act. GSAMA holds Australian Financial Services Licence No. 228948. Any offer will only be made in circumstances where disclosure is not required under Part 6D.2 of the Corporations Act or a product disclosure statement is not required to be given under Part 7.9 of the Corporations Act (as relevant).

FOR DISTRIBUTION ONLY TO FINANCIAL INSTITUTIONS, FINANCIAL SERVICES LICENSEES AND THEIR ADVISERS. NOT FOR VIEWING BY RETAIL CLIENTS OR MEMBERS OF THE GENERAL PUBLIC.

New Zealand: This material is distributed in New Zealand by Goldman Sachs Asset Management Australia Pty Ltd ABN 41 006 099 681, AFSL 228948 ('GSAMA') and is intended for viewing only by wholesale clients in Australia for the purposes of section 761G of the Corporations Act 2001 (Cth) and to clients who either fall within any or all of the categories of investors set out in section 3(2) or sub-section 5(2CC) of the Securities Act 1978, fall within the definition of a wholesale client for the purposes of the Financial Service Providers (Registration and Dispute Resolution) Act 2008 (FSPA) and the Financial Advisers Act 2008 (FAA), and fall within the definition of a wholesale investor under one of clause 37, clause 38, clause 39 or clause 40 of Schedule 1 of the Financial Markets Conduct Act 2013 (FMCA) of New Zealand (collectively, a "NZ Wholesale Investor"). GSAMA is not a registered financial service provider under the FSPA. GSAMA does not have a place of business in New Zealand. In New Zealand, this document, and any access to it, is intended only for a person who has first satisfied GSAMA that the person is a NZ Wholesale Investor. This document is intended for viewing only by the intended recipient. This document may not be reproduced or distributed to any person in whole or in part without the prior written consent of GSAMA.

Canada: This presentation has been communicated in Canada by GSAM LP, which is registered as a portfolio manager under securities legislation in all provinces of Canada and as a commodity trading manager under the commodity futures legislation of Ontario and as a derivatives adviser under the derivatives legislation of Quebec. GSAM LP is not registered to provide investment advisory or portfolio management services in respect of exchange-traded futures or options contracts in Manitoba and is not offering to provide such investment advisory or portfolio management services in Manitoba by delivery of this material.

Japan: This material has been issued or approved in Japan for the use of professional investors defined in Article 2 paragraph (31) of the Financial Instruments and Exchange Law by Goldman Sachs Asset Management Co., Ltd.

South Africa: Goldman Sachs Asset Management International is authorised by the Financial Services Board of South Africa as a financial services provider.

Colombia: Esta presentación no tiene el propósito o el efecto de iniciar, directa o indirectamente, la adquisición de un producto a prestación de un servicio por parte de Goldman Sachs Asset Management a residentes colombianos. Los productos y/o servicios de Goldman Sachs Asset Management no podrán ser ofrecidos ni promocionados en Colombia o a residentes Colombianos a menos que dicha oferta y promoción se lleve a cabo en cumplimiento del Decreto 2555 de 2010 y las otras reglas y regulaciones aplicables en materia de promoción de productos y/o servicios financieros y /o del mercado de valores en Colombia o a residentes colombianos. Al recibir esta presentación, y en caso que se decida contactar a Goldman Sachs Asset Management, cada destinatario residente en Colombia reconoce y acepta que ha contactado a Goldman Sachs Asset Management por su propia iniciativa y no como resultado de cualquier promoción o publicidad

por parte de Goldman Sachs Asset Management o cualquiera de sus agentes o representantes. Los residentes colombianos reconocen que (1) la recepción de esta presentación no constituye una solicitud de los productos y/o servicios de Goldman Sachs Asset Management, y (2) que no están recibiendo ninguna oferta o promoción directa o indirecta de productos y/o servicios financieros y/o del mercado de valores por parte de Goldman Sachs Asset Management.

Esta presentación es estrictamente privada y confidencial, y no podrá ser reproducida o utilizada para cualquier propósito diferente a la evaluación de una inversión potencial en los productos de Goldman Sachs Asset Management o la contratación de sus servicios por parte del destinatario de esta presentación, no podrá ser proporcionada a una persona diferente del destinatario de esta presentación.

Israel: This document has not been, and will not be, registered with or reviewed or approved by the Israel Securities Authority (ISA"). It is not for general circulation in Israel and may not be reproduced or used for any other purpose. Goldman Sachs Asset Management International is not licensed to provide investment advisory or management services in Israel.

Jordan: The document has not been presented to, or approved by, the Jordanian Securities Commission or the Board for Regulating Transactions in Foreign Exchanges.

Bahrain: This material has not been reviewed by the Central Bank of Bahrain (CBB) and the CBB takes no responsibility for the accuracy of the statements or the information contained herein, or for the performance of the securities or related investment, nor shall the CBB have any liability to any person for damage or loss resulting from reliance on any statement or information contained herein. This material will not be issued, passed to, or made available to the public generally.

Kuwait: This material has not been approved for distribution in the State of Kuwait by the Ministry of Commerce and Industry or the Central Bank of Kuwait or any other relevant Kuwaiti government agency. The distribution of this material is, therefore, restricted in accordance with law no. 31 of 1990 and law no. 7 of 2010, as amended. No private or public offering of securities is being made in the State of Kuwait, and no agreement relating to the sale of any securities will be concluded in the State of Kuwait. No marketing, solicitation or inducement activities are being used to offer or market securities in the State of Kuwait.

Oman: The Capital Market Authority of the Sultanate of Oman (the "CMA") is not liable for the correctness or adequacy of information provided in this document or for identifying whether or not the services contemplated within this document are appropriate investment for a potential investor. The CMA shall also not be liable for any damage or loss resulting from reliance placed on the document.

Qatar: This document has not been, and will not be, registered with or reviewed or approved by the Qatar Financial Markets Authority, the Qatar Financial Centre Regulatory Authority or Qatar Central Bank and may not be publicly distributed. It is not for general circulation in the State of Qatar and may not be reproduced or used for any other purpose.

Saudi Arabia: The Capital Market Authority does not make any representation as to the accuracy or completeness of this document, and expressly disclaims any liability whatsoever for any loss arising from, or incurred in reliance upon, any part of this document. If you do not understand the contents of this document you should consult an authorised financial adviser. The CMA does not make any representation as to the accuracy or completeness of these materials, and expressly disclaims any liability whatsoever for any loss arising from, or incurred in reliance upon, any part of these materials. If you do not understand the contents of these materials, you should consult an authorised financial adviser.

United Arab Emirates: This document has not been approved by, or

filed with the Central Bank of the United Arab Emirates or the Securities and Commodities Authority. If you do not understand the contents of this document, you should consult with a financial advisor.

East Timor: Please Note: The attached information has been provided at your request for informational purposes only and is not intended as a solicitation in respect of the purchase or sale of instruments or securities (including funds), or the provision of services. Neither Goldman Sachs Asset Management (Singapore) Pte. Ltd. nor any of its affiliates is licensed under any laws or regulations of Timor-Leste. The information has been provided to you solely for your own purposes and must not be copied or redistributed to any person or institution without the prior consent of Goldman Sachs Asset Management.

Confidentiality

No part of this material may, without GSAM'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.

© 2024 Goldman Sachs. All rights reserved.

390051-OTU-2115992 As of October 2, 2024

Goldman Alternatives **Sachs**

Explore more alternatives insights on am.gs.com