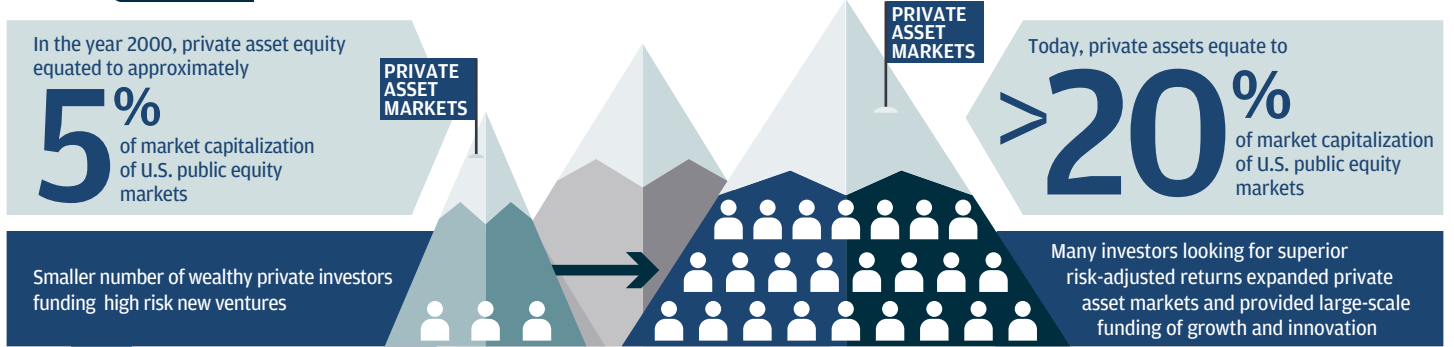
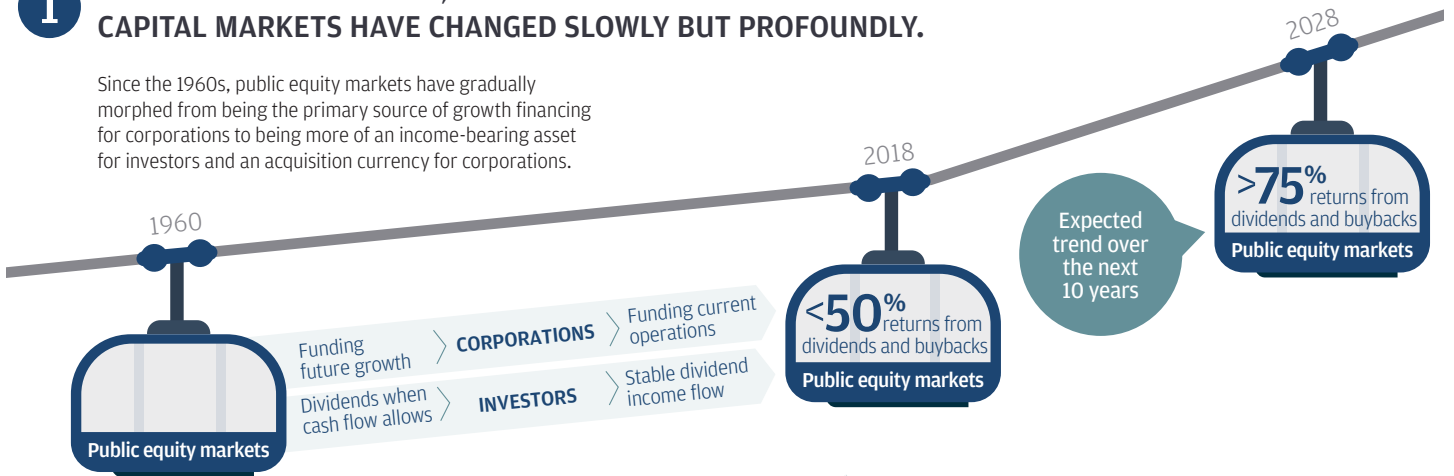


EVALUATING AND MANAGING ILLIQUIDITY RISKS TO HELP BUILD STRONGER PORTFOLIOS

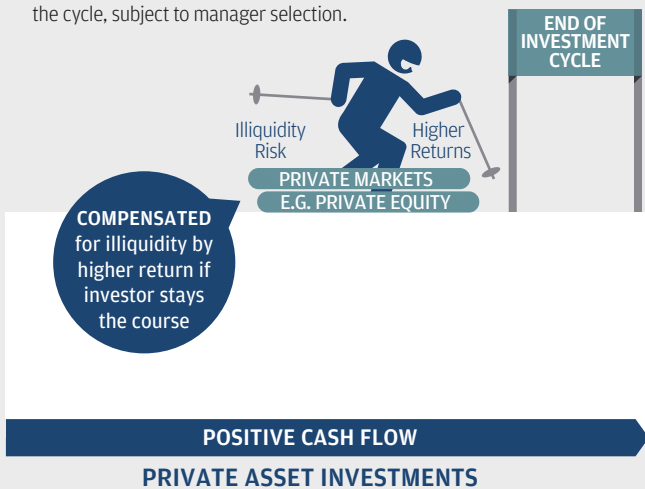
1 OVER THE PAST 50 YEARS, THE ROLES OF PUBLIC AND PRIVATE CAPITAL MARKETS HAVE CHANGED SLOWLY BUT PROFOUNDLY.

Since the 1960s, public equity markets have gradually morphed from being the primary source of growth financing for corporations to being more of an income-bearing asset for investors and an acquisition currency for corporations.

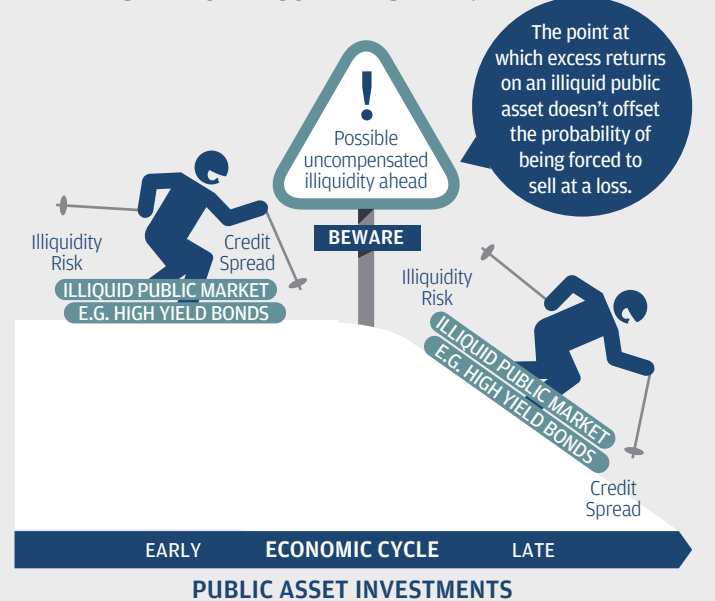


2 INVESTORS LOOKING TO PRIVATE ASSETS FOR EXPOSURE TO GROWTH EXPECT ILLIQUIDITY RISK, WHICH IS GENERALLY COMPENSATED BY HIGHER RETURNS.

The illiquidity risk premium on private assets is a natural feature of their investment model for which investors are generally compensated over the cycle, subject to manager selection.

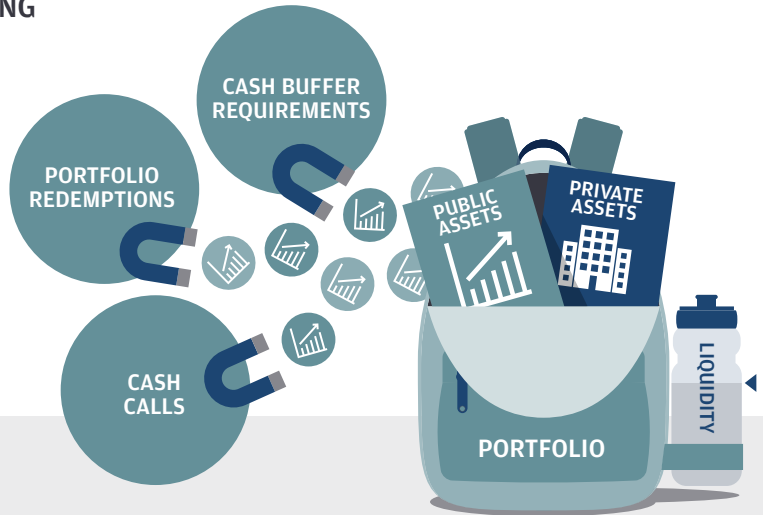


3 INVESTORS IN PUBLIC ASSETS MAY ALSO FACE ILLIQUIDITY RISK, BUT IT MAY BE MORE CYCLICAL AND IT MAY NOT ALWAYS BE FULLY COMPENSATED.

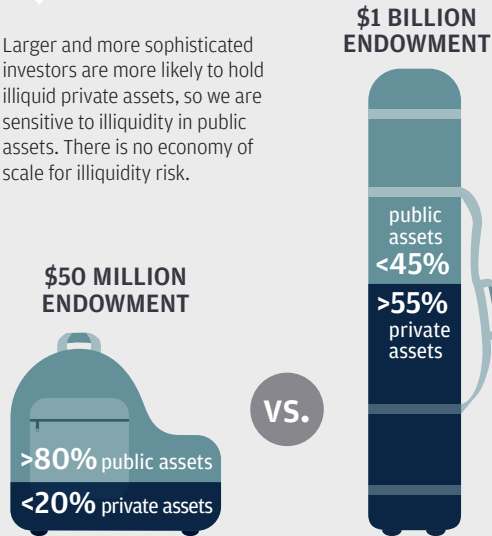


4 AS ECONOMIC CYCLES MATURE, AVOIDING UNCOMPENSATED PUBLIC MARKET ILLIQUIDITY BECOMES A PRESSING CONCERN FOR ANY INVESTOR IN PUBLIC AND PRIVATE ASSETS.

Investors with allocations to both private and public assets may face cash demands that are best covered from the public asset side of the portfolio.



Larger and more sophisticated investors are more likely to hold illiquid private assets, so we are sensitive to illiquidity in public assets. There is no economy of scale for illiquidity risk.



LARGE PORTFOLIO ADVANTAGES

- More able to access investment managers proven to deliver above-average performance

LARGE PORTFOLIO DISADVANTAGES

- Likelihood of a particular illiquid asset in portfolio. If forced to sell, trade size likely to be bigger

5 ACTIVELY PLANNING FOR ILLIQUIDITY RISK IN BOTH PUBLIC AND PRIVATE ASSETS WILL HELP MULTI-ASSET INVESTORS BUILD STRONGER PORTFOLIOS THROUGH THE CYCLE.

Recognizing and planning for cyclical illiquidity risk in public markets is prudent for any investor navigating a sophisticated multi-asset portfolio through the cycle.



An investor will always want to avoid being a forced seller in illiquid markets, private or public.



But in times of market weakness, it may be more desirable to preserve illiquid positions in private than in public markets.



NEXT STEPS

For more information, contact your J.P. Morgan representative.

JPMAM Long-Term Capital Market Assumptions: Given the complex risk-reward trade-offs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. Please note that all information shown is based on qualitative analysis. Exclusive reliance on the above is not advised. This information is not intended as a recommendation to invest in any particular asset class or strategy or as a promise of future performance. Note that these asset class and strategy assumptions are passive only - they do not consider the impact of active management. References to future returns are not promises or even estimates of actual returns a client portfolio may achieve. Assumptions, opinions and estimates are provided for illustrative purposes only. They should not be relied upon as recommendations to buy or sell securities. Forecasts of financial market trends that are based on current market conditions constitute our judgment and are subject to change without notice. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. This material has been prepared for information purposes only and is not intended to provide, and should not be relied on for, accounting, legal or tax advice. The outputs of the assumptions are provided for illustration/discussion purposes only and are subject to significant limitations. "Expected" or "alpha" return estimates are subject to uncertainty and error. For example, changes in the historical data from which it is estimated will result in different implications for asset class returns. Expected returns for each asset class are conditional on an economic scenario; actual returns in the event the scenario comes to pass could be higher or lower, as they have been in the past, so an investor should not expect to achieve returns similar to the outputs shown herein. References to future returns for either asset allocation strategies or asset classes are not promises of actual returns a client portfolio may achieve. Because of the inherent limitations of all models, potential investors should not rely exclusively on the model when making a decision. The model cannot account for the impact that economic, market, and other factors may have on the implementation and ongoing management of an actual investment portfolio. Unlike actual portfolio outcomes, the model outcomes do not reflect actual trading, liquidity constraints, fees, expenses, taxes and other factors that could impact the future returns. The model assumptions are passive only - they do not consider the impact of active management. A manager's ability to achieve similar outcomes is subject to risk factors over which the manager may have no or limited control. The views contained herein are not to be taken as advice or a recommendation to buy or sell any investment in any jurisdiction, nor is it a commitment from J.P. Morgan Asset Management or any of its subsidiaries to participate in any of the transactions mentioned herein. Any forecasts, figures, opinions or investment techniques and strategies set out are for information purposes only, based on certain assumptions and current market conditions and are subject to change without prior notice. All information presented herein is considered to be accurate at the time of production. This material does not contain sufficient information to support an investment decision and it should not be relied upon by you in evaluating the merits of investing in any securities or products. In addition, users should make an independent assessment of the legal, regulatory, tax, credit and accounting implications and determine, together with their own professional advisers, if any investment mentioned herein is believed to be suitable to their personal goals. Investors should ensure that they obtain all available relevant information before making any investment. It should be noted that investment involves risks, the value of investments and the income from them may fluctuate in accordance with market conditions and taxation agreements and investors may not get back the full amount invested. Both past performance and yield are not a reliable indicator of current and future results.

For the purposes of MiFIDII, the JPM Market Insights and Portfolio Insights programs are marketing communications and are not in scope for any MiFIDII / MiFIR requirements specifically related to investment research. Furthermore, the J.P. Morgan Asset Management Market Insights and Portfolio Insights programs, as non-independent research, have not been prepared in accordance with legal requirements designed to promote the independence of investment research, nor are they subject to any prohibition on dealing ahead of the dissemination of investment research.

J.P. Morgan Asset Management is the brand for the asset management business of JPMorgan Chase & Co. and its affiliates worldwide.

To the extent permitted by applicable law, we may record telephone calls and monitor electronic communications to comply with our legal and regulatory obligations and internal policies. Personal data will be collected, stored and processed by J.P. Morgan Asset Management in accordance with our [Company's Privacy Policy](#). For further information regarding our regional privacy policies please refer to the [EMEA Privacy Policy](#); for locational Asia Pacific privacy policies, please click on the respective links: [Hong Kong Privacy Policy](#), [Australia Privacy Policy](#), [Taiwan Privacy Policy](#), [Japan Privacy Policy](#) and [Singapore Privacy Policy](#).

This communication is issued by the following entities: in the United Kingdom by JPMorgan Asset Management (UK) Limited, which is authorized and regulated by the Financial Conduct Authority; in other European jurisdictions by JPMorgan Asset Management (Europe) S.à r.l.; in Hong Kong by JF Asset Management Limited, or JPMorgan Funds (Asia) Limited, or JPMorgan Asset Management Real Assets (Asia) Limited; in Singapore by JPMorgan Asset Management (Singapore) Limited (Co. Reg. No. 197601586K), or JPMorgan Asset Management Real Assets (Singapore) Pte Ltd (Co. Reg. No. 201120355E); in Taiwan by JPMorgan Asset Management (Taiwan) Limited; in Japan by JPMorgan Asset Management (Japan) Limited which is a member of the Investment Trusts Association, Japan, the Japan Investment Advisers Association, Type II Financial Instruments Firms Association and the Japan Securities Dealers Association and is regulated by the Financial Services Agency (registration number "Kanto Local Finance Bureau (Financial Instruments Firm) No. 330"); in Australia to wholesale clients only as defined in section 761A and 761G of the Corporations Act 2001 (Cth) by JPMorgan Asset Management (Australia) Limited (ABN 55143832080) (AFSL 376919); in Brazil by Banco J.P. Morgan S.A.; in Canada for institutional clients' use only by JPMorgan Asset Management (Canada) Inc., and in the United States by JPMorgan Distribution Services Inc. and J.P. Morgan Institutional Investments, Inc., both members of FINRA; and J.P. Morgan Investment Management Inc.

In APAC, distribution is for Hong Kong, Taiwan, Japan and Singapore. For all other countries in APAC, to intended recipients only.

Copyright 2018 JPMorgan Chase & Co. All rights reserved.

LV-JPM51230 | 10/18 | 0903c02a823f959d