

# THE CASE FOR PRIVATE INFRASTRUCTURE INVESTING

## Introduction

Nikko Asset Management recently conducted an asset-class study of private infrastructure investing. This note summarizes our key takeaways in this study and touches on a few key questions for allocators relatively new to the infrastructure asset class, and to private markets in general. These include investors' expectations as to: asset-class characteristics, portfolio implications, target returns, risk considerations, investor landscape, and market conditions, which should provide a snapshot of the overall investment proposition for private infrastructure.

We believe that long-term oriented institutional investors could find investing into private infrastructure via actively managed funds an attractive investment proposition. This is due to private infrastructure's yield profile and return composition that could match with the investment orientation of long-term institutional investors. Furthermore, the inefficient and non-transparent nature of private infrastructure investing provides rich opportunities for skillful managers to add value.

## Infrastructure as an asset class and portfolio implications

Infrastructure assets are broadly defined to be real assets that provide essential or commercial services to the public. They have predictable revenues/cash flows, often inflation-linked revenues, high barriers to entry, and inelastic demand for their services. Certain sectors such as energy and water utilities, transportation, social amenities (hospitals, schools) and some areas of telecommunications have the general characteristics of infrastructure assets.

Private infrastructure offers diversification from traditional listed portfolios but has a long investment horizon to capture full value uplift over the life cycle of the asset. For mature and operational assets, their stable cash generation helps to fund consistent yields to investors.

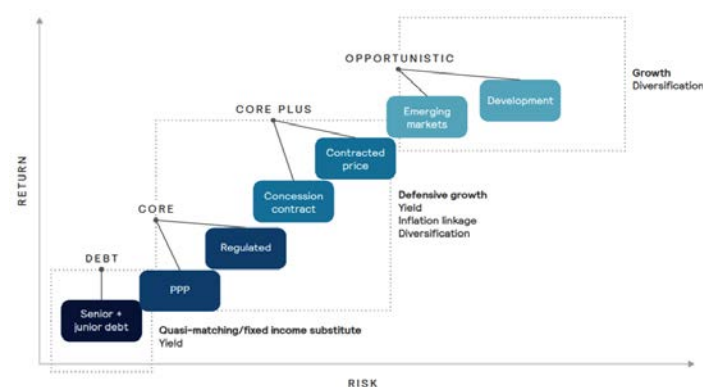
Listed infrastructure tends to provide less portfolio diversification given its higher correlation with equities, particularly over shorter time periods. The benefit of access to large infrastructure assets with a high degree of liquidity comes at the expense of higher performance volatility.

## Types of infrastructure investment and associated risk-return profile

The expected returns from infrastructure investments (from capital appreciation and cash yields) are inversely correlated to the relative maturity of the asset base. There are different ways of accessing infrastructure investment across the risk-return spectrum (ref. Exhibit 1 below): from debt financing (senior to equity/fixed income proxy), core strategies (mostly brownfield, regulated assets), core-plus (brownfield with some growth), to opportunistic (development assets and/or emerging markets).

Debt financing of long-term projects mostly related to infrastructure or industrial manufacturing is based on forecast cash flow generation. There is increased complexity in valuing cash flows and evaluating credit risk which requires a greater level of due diligence. Both lower perceived risk for infrastructure debt versus equivalent corporate debt, and counter-cyclical properties (from studying historic default and recovery rates), offer diversification in fixed-income investment portfolios.

Exhibit 1: Risk-return spectrum for different infrastructure strategies

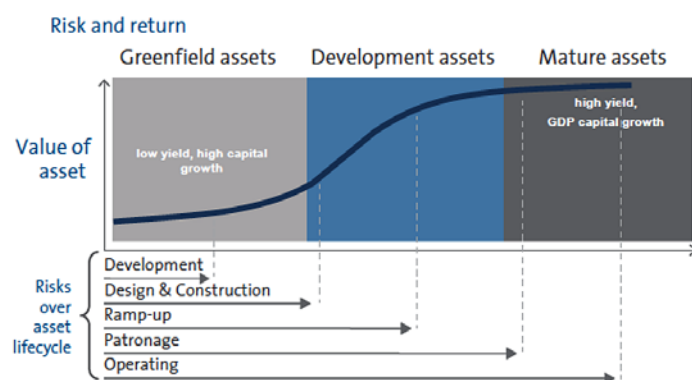


Source: Mercer, Mercer Infrastructure Primer, Aug 2016.

In tandem with return expectations, associated risk factors also evolve over the life cycle of the asset. Development and construction risks at the initial phase give way to ramp-up risk, followed by demand/usage risks (for assets not paid on an availability basis), and finally operating risk at the steady (mature) state.

## Exhibit 2: Evolution of expected returns and risk factors over the asset lifecycle

Risk profile	Expected returns (IRRs)	Expected cash yields (%)
Core/mature	9% - 13%	7% - 12%
Core plus/growth	12% - 17%	5% - 9%
Opportunistic	15% - 20%+	3% - 5%



Sources: Mercer; AMP Capital, Understanding Infrastructure – a reference guide, 2013.

Many risk considerations are centred around fund structures, whether open-ended/evergreen or closed-ended/finite term funds. They are suited to deploy different investment strategies and have distinct benefits and drawbacks relating to liquidity terms, fee structures, and volatility implications, which also highlight the importance of independent valuations in fund management.

## Fundraising landscape

Most private investment in infrastructure is institutional capital, given matching return profile/asset lifecycle for institutions with long-term liabilities. Infrastructure provides inflation-protected real returns, as adjustments for inflation are often built into operating agreements, and gives investors a gateway to tap into leveraged economic growth (especially in emerging markets).

The market is growing in terms of AUM, in light of the current trend for institutional investors to increase their allocation to infrastructure. A 2017 McKinsey study, based on Prequin's private markets database, found that infrastructure was the fastest growing asset class among private markets: fundraising for infrastructure grew 40% in 2016, driven by institutional demand.

In recent years, robust fundraising has led to record levels of dry powder and intensified competition for assets. The infrastructure AM industry is also becoming more bifurcated with the rise of mega-funds and capital becoming more concentrated at the top end of the market. Investors are attracted to the ability of the largest fund managers to source attractive deal opportunities, as well as their proven track record in deal execution and exiting investments.

## Market outlook and investor considerations

Record "dry powder" levels, arising from the explosion of infrastructure-related fundraises, has led to intense competition for deals and stretched asset valuations. This highlights the ever-present need to diligence asset- and market-specific risks thoroughly, as well as rigorous modelling of project-level cash flows and returns, as higher entry prices leave less margin for error. Rising interest rates and market volatility also imply higher required rates of return for new projects coming online, as they will continue to be priced at a premium to prevailing risk-free rates.

On the other hand, infrastructure valuations are inherently less susceptible to market demand cycles. For instance, private equity are often valued using EV/EBITDA and similar metrics, which have significant correlation to public markets valuations (P/E). Because of the high visibility of future revenue streams and consequently free cash flow, asset projected returns and interim valuations are commonly based on DCF modelling, which is not dependent on publicly-traded P/E multiples, although cash flow projections could still be subject to volatility from the broader market environment. The onus of due diligence shifts from predicting favourable market conditions to specific risks to do with the counterparty, jurisdiction and asset operations.

The investment case for infrastructure is further underpinned by a sizeable global demand gap; McKinsey estimates at the current trajectory which projects public expenditure of c. 3.8% of GDP per year to meet demand through 2030, the world will fall short by USD 350bn annually. This gap triples when taking into account the additional requirements to meet the new UN Sustainable Development Goals.

As a final note, infrastructure investment is best suited to those with a mid-long term investment horizon and appetite for complex private markets investments, given the illiquidity and long lifecycle of underlying assets.

The above is comprised of excerpts from the full paper (Private Infrastructure: A Study) written in March 2018 by the Global Portfolio Solutions Group.

## References

- AMP Capital. (2013). Understanding infrastructure - a reference guide. Retrieved from AMP Capital: [https://www.ampcapital.com/ampcapitalglobal/media/contents/campaign/real/understanding\\_infrastructure\\_a\\_reference\\_guide.pdf](https://www.ampcapital.com/ampcapitalglobal/media/contents/campaign/real/understanding_infrastructure_a_reference_guide.pdf)
- McKinsey Global Institute. (2016, June). Bridging Global Infrastructure Gaps. Retrieved from McKinsey&Company: <https://www.mckinsey.com/industries/capital-projects-and-infrastructure/our-insights/bridging-global-infrastructure-gaps>
- McKinsey Global Private Markets Review. (2017, February). A routinely exceptional year. Retrieved from McKinsey&Company: <https://www.mckinsey.com/~media/mckinsey/industries/private%20equity%20and%20principal%20investors/our%20insights/a%20routinely%20exceptional%20year%20for%20private%20equity/mckinsey-global-private-markets-review-february-2017.ashx>
- Mercer. (2014, April). Research Perspectives. Retrieved from Mercer: [https://www.mercer.co.kr/content/dam/mercer/attachments/global/investments/Research\\_perspectives\\_vol2\\_March2014.pdf](https://www.mercer.co.kr/content/dam/mercer/attachments/global/investments/Research_perspectives_vol2_March2014.pdf)
- Mercer. (2016). Infrastructure: A Primer. Retrieved from Mercer: <http://www.mercersignatureevents.com/investmentforums/2017/hongkong/presentations/Infrastructure-A-Primer.pdf>

## Important Information

This document is prepared by Nikko Asset Management Co., Ltd. and/or its affiliates (**Nikko AM**) and is for distribution only under such circumstances as may be permitted by applicable laws. This document does not constitute investment advice or a personal recommendation and it does not consider in any way the suitability or appropriateness of the subject matter for the individual circumstances of any recipient.

This document is for information purposes only and is not intended to be an offer, or a solicitation of an offer, to buy or sell any investments or participate in any trading strategy. Moreover, the information in this material will not affect Nikko AM's investment strategy in any way. The information and opinions in this document have been derived from or reached from sources believed in good faith to be reliable but have not been independently verified. Nikko AM makes no guarantee, representation or warranty, express or implied, and accepts no responsibility or liability for the accuracy or completeness of this document. No reliance should be placed on any assumptions, forecasts, projections, estimates or prospects contained within this document. This document should not be regarded by recipients as a substitute for the exercise of their own judgment. Opinions stated in this document may change without notice.

In any investment, past performance is neither an indication nor guarantee of future performance and a loss of capital may occur. Estimates of future performance are based on assumptions that may not be realised. Investors should be able to withstand the loss of any principal investment. The mention of individual stocks, sectors, regions or countries within this document does not imply a recommendation to buy or sell.

Nikko AM accepts no liability whatsoever for any loss or damage of any kind arising out of the use of all or any part of this document, provided that nothing herein excludes or restricts any liability of Nikko AM under applicable regulatory rules or requirements.

All information contained in this document is solely for the attention and use of the intended recipients. Any use beyond that intended by Nikko AM is strictly prohibited.

**Japan:** The information contained in this document pertaining specifically to the investment products is not directed at persons in Japan nor is it intended for distribution to persons in Japan. Registration Number: Director of the Kanto Local Finance Bureau (Financial Instruments firms) No. 368 Member Associations: The Investment Trusts Association, Japan/Japan Investment Advisers Association/Japan Securities Dealers Association.

**United Kingdom and rest of Europe:** This document constitutes a financial promotion for the purposes of the Financial Services and Markets Act 2000 (as amended) (FSMA) and the rules of the Financial Conduct Authority (the FCA) in the United Kingdom (the FCA Rules).

This document is communicated by Nikko Asset Management Europe Ltd, which is authorised and regulated in the United Kingdom by the FCA (122084). It is directed only at (a) investment professionals falling within article 19 of the Financial Services and Markets Act 2000 (Financial Promotions) Order 2005, (as amended) (the Order) (b) certain high net worth entities within the meaning of article 49 of the Order and (c) persons to whom this document may otherwise lawfully be communicated (all such persons being referred to as relevant persons) and is only available to such persons and any investment activity to which it relates will only be engaged in with such persons.

**United States:** This document is for information purposes only and is not intended to be an offer, or a solicitation of an offer, to buy or sell any investments. This document should not be regarded as investment advice. This document may not be duplicated, quoted, discussed or otherwise shared without prior consent. Any offering or

distribution of a Fund in the United States may only be conducted via a licensed and registered broker-dealer or a duly qualified entity. Nikko Asset Management Americas, Inc. is a United States Registered Investment Adviser.

**Singapore:** This document is for information only with no consideration given to the specific investment objective, financial situation and particular needs of any specific person. You should seek advice from a financial adviser before making any investment. In the event that you choose not to do so, you should consider whether the investment selected is suitable for you. Nikko Asset Management Asia Limited is a regulated entity in Singapore.

**Hong Kong:** This document is for information only with no consideration given to the specific investment objective, financial situation and particular needs of any specific person. You should seek advice from a financial adviser before making any investment. In the event that you choose not to do so, you should consider whether the investment selected is suitable for you. The contents of this document have not been reviewed by the Securities and Futures Commission or any regulatory authority in Hong Kong. Nikko Asset Management Hong Kong Limited is a licensed corporation in Hong Kong.

**Australia:** Nikko AM Limited ABN 99 003 376 252 (**Nikko AM Australia**) is responsible for the distribution of this information in Australia. **Nikko AM Australia** holds Australian Financial Services Licence No. 237563 and is part of the Nikko AM Group. This material and any offer to provide financial services are for information purposes only. This material does not take into account the objectives, financial situation or needs of any individual and is not intended to constitute personal advice, nor can it be relied upon as such. This material is intended for, and can only be provided and made available to, persons who are regarded as Wholesale Clients for the purposes of section 761G of the Corporations Act 2001 (Cth) and must not be made available or passed on to persons who are regarded as Retail Clients for the purposes of this Act. If you are in any doubt about any of the contents, you should obtain independent professional advice.

**New Zealand:** Nikko Asset Management New Zealand Limited (Company No. 606057, FSP22562) is the licensed Investment Manager of Nikko AM NZ Investment Scheme and the Nikko AM NZ Wholesale Investment Scheme.

This material is for the use of researchers, financial advisers and wholesale investors (in accordance with Schedule 1, Clause 3 of the Financial Markets Conduct Act 2013 in New Zealand). This material has been prepared without taking into account a potential investor's objectives, financial situation or needs and is not intended to constitute personal financial advice, and must not be relied on as such. Recipients of this material, who are not wholesale investors, or the named client, or their duly appointed agent, should consult an Authorised Financial Adviser and the relevant Product Disclosure Statement or Fund Fact Sheet (available on our website [www.nikkoam.co.nz](http://www.nikkoam.co.nz)).

**Kingdom of Bahrain:** The document has not been approved by the Central Bank of Bahrain which takes no responsibility for its contents. No offer to the public to purchase the Strategy will be made in the Kingdom of Bahrain and this document is intended to be read by the addressee only and must not be passed to, issued to, or shown to the public generally.

**Kuwait:** This document is not for general circulation to the public in Kuwait. The Strategy has not been licensed for offering in Kuwait by the Kuwaiti Capital Markets Authority or any other relevant Kuwaiti government agency. The offering of the Strategy in Kuwait on the basis a private placement or public offering is, therefore, restricted in accordance with Decree Law No. 7 of 2010 and the bylaws thereto (as amended). No private or public offering of the Strategy is being made in Kuwait, and no agreement relating to the sale of the Strategy will

be concluded in Kuwait. No marketing or solicitation or inducement activities are being used to offer or market the Strategy in Kuwait.

**Kingdom of Saudi Arabia:** This document is communicated by Nikko Asset Management Europe Ltd (Nikko AME), which is authorised and regulated by the Financial Services and Markets Act 2000 (as amended) (FSMA) and the rules of the Financial Conduct Authority (the FCA) in the United Kingdom (the FCA Rules). This document should not be reproduced, redistributed, or sent directly or indirectly to any other party or published in full or in part for any purpose whatsoever without a prior written permission from Nikko AME.

This document does not constitute investment advice or a personal recommendation and does not consider in any way the suitability or appropriateness of the subject matter for the individual circumstances of any recipient. In providing a person with this document, Nikko AME is not treating that person as a client for the purposes of the FCA Rules other than those relating to financial promotion and that person will not therefore benefit from any protections that would be available to such clients.

Nikko AME and its associates and/or its or their officers, directors or employees may have or have had positions or material interests, may at any time make purchases and/or sales as principal or agent, may provide or have provided corporate finance services to issuers or may provide or have provided significant advice or investment services in any investments referred to in this document or in related investments. Relevant confidential information, if any, known within any company in the Nikko AM group or Sumitomo Mitsui Trust Bank group and not available to Nikko AME because of regulations or internal procedure is not reflected in this document. The investments mentioned in this document may not be eligible for sale in some states or countries, and they may not be suitable for all types of investors.

**Oman:** The information contained in this document neither constitutes a public offer of securities in the Sultanate of Oman as contemplated by the Commercial companies law of Oman (Royal decree 4/74) or the Capital Markets Law of Oman (Royal Decree 80/98), nor does it constitute an offer to sell, or the solicitation of any offer to buy non-Omani securities in the Sultanate of Oman as contemplated by Article 139 of the Executive Regulations to the Capital Market law (issued by Decision No. 1/2009). This document is not intended to lead to the conclusion of any contract of whatsoever nature within the territory of the Sultanate of Oman.

**Qatar (excluding QFC):** The Strategies are only being offered to a limited number of investors who are willing and able to conduct an independent investigation of the risks involved in an investment in such Strategies. The document does not constitute an offer to the public and should not be reproduced, redistributed, or sent directly or indirectly to any other party or published in full or in part for any purpose whatsoever without a prior written permission from Nikko Asset Management Europe Ltd (Nikko AME). No transaction will be concluded in your jurisdiction and any inquiries regarding the Strategies should be made to Nikko AME.

**United Arab Emirates (excluding DIFC):** This document and the information contained herein, do not constitute, and is not intended to constitute, a public offer of securities in the United Arab Emirates and accordingly should not be construed as such. The Strategy is only being offered to a limited number of investors in the UAE who are (a) willing and able to conduct an independent investigation of the risks involved in an investment in such Strategy, and (b) upon their specific request.

The Strategy has not been approved by or licensed or registered with the UAE Central Bank, the Securities and Commodities Authority or any other relevant licensing authorities or governmental agencies in the UAE. This document is for the use of the named addressee only and should not be given or shown to any other person (other than

employees, agents or consultants in connection with the addressee's consideration thereof).

No transaction will be concluded in the UAE and any inquiries regarding the Strategy should be made to Nikko Asset Management Europe Ltd.