Blackstone University | Essentials

Private Infrastructure

Private infrastructure provides essential services that are critical to the global economy.





Private Markets

Need to Know

Historical Outperformance

Private infrastructure has historically generated **higher returns** with less volatility than public equities and infrastructure across cycles.

Diversification Benefits

Private infrastructure has exhibited **low correlation** to other asset classes, providing potential diversification benefits.²

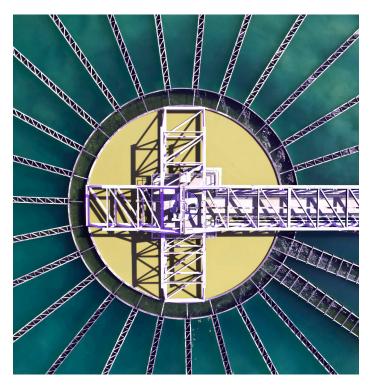
Potential Inflation Mitigation¹

Infrastructure business models often have contracts indexed to inflation or with the potential for **embedded inflation mitigation**, which can help maintain profits in the face of rising costs.

Understanding Private Infrastructure

Private infrastructure refers to the physical assets that provide and/or support essential services critical to the economy, such as energy grids and data centers.

Typically operating under long-term contracted or regulated business models, these assets can offer robust and stable cash flows with low sensitivity to the economic cycle due to factors such as steady demand growth and potentially predictable cash flows.³



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1. Risk Management seeks to mitigate risk but does not eliminate risk and does not protect against losses.

2. Based on quarterly returns from January 1, 2004 to December 31, 2023 sourced from Morningstar. Global Private Infrastructure (Cambridge Private Infrastructure Index); Global Private Equity (Cambridge Global Private Equity Index); US Private Real Estate (NFI-ODCE Index); US Investment Grade Bonds (Bloomberg US Aggregate Bond); Global Public Equity (MSCI ACWI); Global Public Infrastructure (S&P Global Infrastructure Index). January 1, 2004 represents the inception date for the Cambridge Private Infrastructure index.

3. Based on Blackstone's beliefs and market observations and subject to change. Please see "Important Disclaimer Information," including "Images" and "Opinions."

Infrastructure Includes









Digital Infrastructure

Encompasses the data centers that power our digital lives and AI, the wireless networks that keep people connected, and the fiber-optic cables that span continents. As the digital age evolves, including as efficiency improvements lead to wider adoption, the demand for robust, secure, and fast digital infrastructure is expected to grow.

- Data centers
- Cell towers
- Fiber

Energy Infrastructure

From the development of new sources of electricity to the transportation of fuels, energy infrastructure powers the global economy. Increasing power demand is expected to drive long-term energy demand from a range of sources, including renewables and traditional energy.

- Utilities / Transmission
- Pipelines
- Renewables

Transportation

Moving people and goods, transportation infrastructure is expected to become even more important given the sustained growth of e-commerce and increase in leisure travel.

- Roads
- Ports
- Airports
- Railroads

Water & Waste

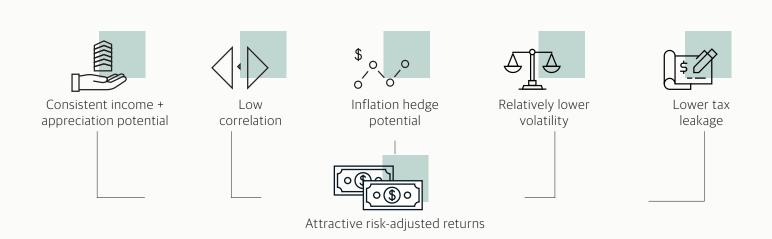
Critical systems for managing water resources and waste, ensuring access to clean water and sustainable disposal methods.

- Water & sewage
- Waste

Based on Blackstone's beliefs and market observations and subject to change. The above illustrate select investment themes that may be pursued when making an investment. Such themes are subject to change and there can be no assurance that Blackstone will pursue any particular theme. Please see "Key Risk Factors" and "Important Disclaimer Information," including "Images," "Opinions," and "Sustainability."

Why Private Infrastructure?

We believe infrastructure assets can be an important allocation in investor portfolios, potentially delivering robust returns, diversification⁴ benefits, inflation mitigation, and yield.





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Private infrastructure has historically delivered higher returns with lower volatility than public markets across cycles (Exhibit 1).

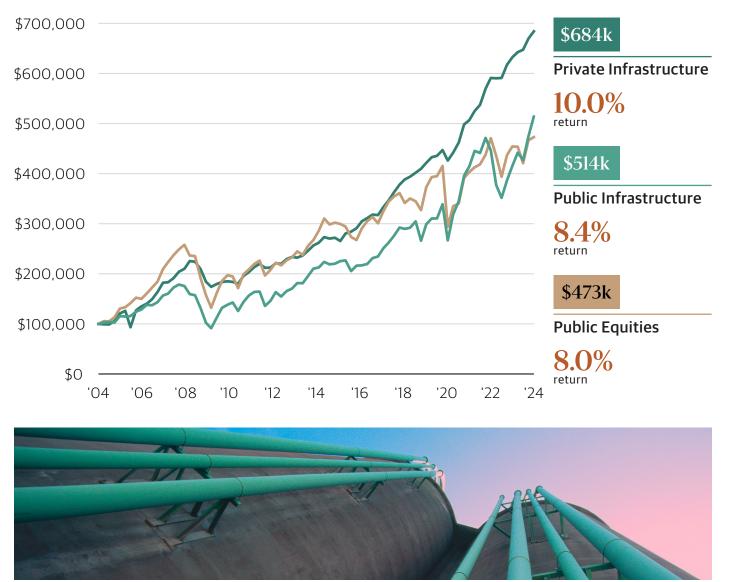


EXHIBIT 1: Growth of \$100,000 Investment⁵

Past performance does not predict future returns. Any investment involves a high degree of risk and should only be made if an investor can afford the loss of the entire investment. Hypothetical PME index performance may differ materially from the performance of such index during the same time period on account of the adjustments made for the timing of cash flows as per the PME analysis. Returns shown above have been compounded quarter over quarter to show comparison over time and may not be representative of actual historical returns experienced by investors in either private equity, public equities or public infrastructure. Private Infrastructure assets are expected to face risks different than those faced by public equities and public infrastructure, including significantly less liquidity, as Private Infrastructure assets generally do not have liquid markets and may face a greater risk of default and related risk of loss of principal. Additionally, investments in private infrastructure are speculative and often include a higher degree of risk. Indices are provided for illustrative purposes only, and there are significant risks and limitations to relying on comparisons to an index, including the PME adjustments.

5. Cambridge Associates, as of March 31, 2024. Growth of \$100,000 based on cumulative returns from January 1, 2004 to March 31, 2024, based on earliest common inception date. "Private Infrastructure" is represented by the pooled returns of the Cambridge Private Infrastructure Index, which is comprised of 93 infrastructure funds, including fully liquidated partnerships, formed between 1993 and 2015. "Public Equities" are represented by the Cambridge Modified Public Market Equivalent ("PME") analysis of the MSCI ACWI Index. "Public Infrastructure" is represented by the Cambridge Modified Public Market Equivalent analysis of the S&P Global Infrastructure Index. Comparisons of private infrastructure performance to public equity and public infrastructure performance are therefore based on the difference in performance between Cambridge Private Equity Index IRR and the hypothetical PME return of the MSCI ACWI Index and S&P Global Infrastructure Index. See Endnote 1 on page 12 for additional information on the PME calculation methodology. See "Important Disclosure Information" including "Index Comparison" and "Index Definitions." These indices have been selected as generally well-known and widely recognized indices and not as a benchmark for any specific fund.

PRIVATE INFRASTRUCTURE

Private infrastructure has historically exhibited low correlation to traditional asset classes, including public equities, private real estate, and private equity, providing potential diversification benefits to investors (Exhibit 2).

Private infrastructure can also deliver inflation mitigation as infrastructure business models often have contracts indexed to inflation or with embedded inflation mitigants, which can help maintain profits in the face of rising costs. Lastly, private infrastructure can be a steady source of income for investors due to the long-term contracts in place.

EXHIBIT 2: Correlations⁶

Asset Class	Global Private Infrastructure	Public Infrastructure	Global Equities	Investment Grade Bonds	US Private Real Estate
Public Infrastructure	0.34				
Global Equities	0.59	0.88			
Investment Grade Bonds	0.00	0.16	0.10		
US Private Real Estate	0.34	O.11	0.00	-0.26	
Global Private Equity	0.68	0.75	0.81	-0.02	0.33

Note: There can be no assurance that any Blackstone fund or investment will achieve its objectives or avoid substantial losses. Diversification does not ensure a profit or protect against losses. These indices have been selected as generally well-known and widely recognized indices and not as a benchmark for any specific fund. Correlation measures how one investment performs in relation to another, with a coefficient of +1 being a perfect, positive correlation and a coefficient of -1 being a perfect, negative correlation. When two asset classes have a correlation of +1, they will both move up or down by the same amount in the same direction. Conversely, a correlation of -1 indicates that when one asset class moves up or down, the other moves in the opposite direction by the same amount. In general, asset classes with a correlation of less than 0.70 or greater than -0.70 are considered to have relatively low correlation. Please see "Important Disclosure Information" including "Index Comparison" and "Index Definitions."

Accessing Megatrends

Infrastructure as an asset class is broader than bridges and tunnels — for instance, it can include cutting-edge sectors of the economy, such as data centers. When investing in private infrastructure, selecting the right sectors, markets, and assets can be critical to generating strong performance. It is important to focus on high-quality assets with attractive growth potential driven by long-term, secular tailwinds.

This means identifying and concentrating capital around major trends, such as the rise of leisure travel or the growth in cloud computing and artificial intelligence.

Manager selection is also critical to success. Blackstone is the world's largest⁷ alternative asset manager with a nearly 40-year track record.

Diversification does not ensure a profit or protect against losses. There is no assurance that any fund or strategy will effectively hedge inflation. There can be no assurance that an allocation to infrastructure would yield returns or protect capital.

^{6.} Based on quarterly returns from January 1, 2004 to December 31, 2023 sourced from Morningstar. Global Private Infrastructure (Cambridge Private Infrastructure Index); Global Private Equity (Cambridge Global Private Equity Index); US Private Real Estate (NCREIF ODCE); Investment Grade Bonds (Bloomberg US Aggregate Bond); Global Equities (MSCI ACWI); Public Infrastructure (S&P Global Infrastructure Index). January 1, 2024 represents the inception date for the Cambridge Infrastructure index.

^{7.} Largest global alternative asset manager reflects Preqin data as of September 30, 2024 or as of latest publicly available company data.

infrastructure. In fact, more data was created in the last

three years (2021-2024) than all prior history combined

Blackstone views the rise of artificial intelligence as an

engine for future growth in digital infrastructure assets.

Case Study: AirTrunk

In 2024, Blackstone acquired AirTrunk, the largest data center platform in the Asia-Pacific region and Blackstone's largest APAC investment to date.⁸ This transaction exemplifies Blackstone's ability to invest at scale behind high-conviction themes, capitalizing on long-term trends in data growth. We believe cloud computing, content creation, and now artificial intelligence are driving robust demand for digital

EXHIBIT 3: Explosive Growth in Data⁹

(Data created, consumed, and stored in zettabytes)

200 Sora announced growth ChatGPT released 2 2011 2012 2013 2014 2015 2016 2022 2023 2024E 2025E 2010 2017 2018 2019 2020 2021 SOCIAL MEDIA & CLOUD ADOPTION **STREAMING & CONTENT CREATION** ARTIFICIAL INTELLIGENCE

(Exhibit 3).



The above case studies are intended to illustrate select investment themes that Blackstone may pursue when making investments. Such themes are subject to change and there can be no assurance that Blackstone will pursue any particular theme. 8. Largest by contracted capacity and land bank size. Excludes platforms with single market exposure. DC Byte, as of September 2024. 9. International Data Corporations (IDC), as of May 2024. 2024 and 2025 represent year-end estimates.

Allocations Growing

Private infrastructure has attracted over \$1 trillion from investors and has grown roughly 7x as an asset class since 2010 (Exhibit 4). Institutional investors are increasing allocations; the average infrastructure allocation has doubled over the past five years (Exhibit 5).

Individual investors are markedly under-allocated to private infrastructure, especially when compared to institutional investors. Eligible individual investors can now invest in private infrastructure through perpetual funds. These funds have potentially appealing attributes, including:

- Immediate investment of capital from the moment of subscription, eliminating any waiting for money to be put to work
- The flexibility for investors to subscribe to or redeem out of the fund periodically, based on the fund's net asset value (NAV), within certain restrictions

EXHIBIT 4: Significant AUM Growth

Global unlisted infrastructure AUM from 2010 to 2023^{10} (\$ in billions)

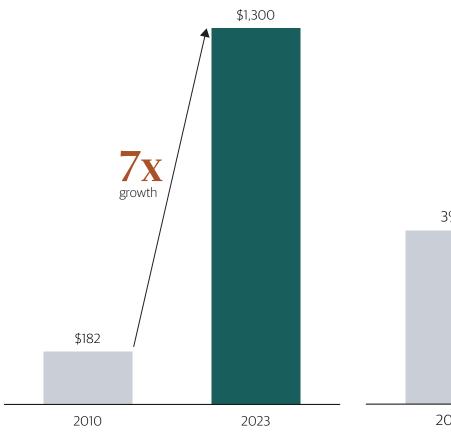
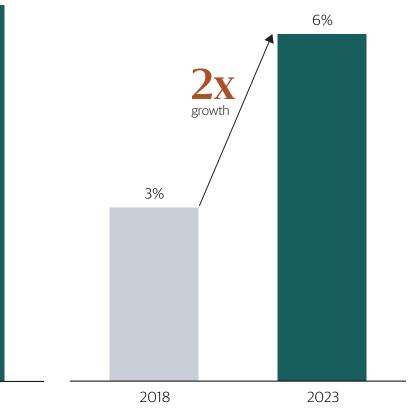


EXHIBIT 5: Private Infrastructure Allocations

Institutions have nearly doubled their allocations since 2018¹¹



10. Preqin, as of September 2024. "AUM" is Assets Under Management and consists of dry powder and unrealized value.

11. Source: Infrastructure Investor's Investor Report Full Year 2023.

The information presented represents what is typically seen for these types of fund but variations and/or exceptions do exist. Therefore, the information herein is provided for educational purposes only and should not be construed as financial advice, nor should any information in this document be relied on when making an investment decision. Recipients should consult their own financial advisers regarding the information herein.

Considerations before Allocating

Ultimately, private market investing means active ownership of less liquid assets. Liquidity needs at the total portfolio level are one important consideration before allocating to private infrastructure. In addition, manager selection may be of particular importance given that we have seen certain infrastructure managers include "infrastructure-like" investments in their portfolios. Key manager attributes include scale, staying power, and a potentially differentiated ability to source strategically located, hard-asset infrastructure.



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Index Definitions

Bloomberg US Aggregate Bond Index	The Bloomberg Aggregate Bond Index is an index of US dollar-denominated, investment- grade US corporate, government, and mortgage-backed securities.		
Cambridge Global Private Equity Index	The Cambridge Associates Global Private Equity Index is a horizon calculation based on data compiled from global buyout, growth, and secondary funds formed between 1988 and 2023.		
Cambridge Private Infrastructure Index	The Cambridge Infrastructure Index is a horizon calculation based on data compiled from 93 infrastructure funds, including fully liquidated partnerships, formed between 1993 and 2015. Private indexes are pooled horizon internal rate of return (IRR) calculations, net of fees, expenses, and carried interest.		
MSCI ACWI Index	MSCI ACWI Index represents all global public equity markets. The MSCI ACWI ex US Index excludes the US equity market. "ACWI" is an acronym for All Country World Index.		
NFI-OCDE Index	The National Council of Real Estate Investment Fiduciaries Fund Index - Open End Diversified Core Equity is the first of the NCREIF Fund Database products and is an index of investment returns reporting on both a historical and current basis the results of 38 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NFI-ODCE Index is capitalization weighted and is reported gross of fees. Measurement is time weighted. NCREIF will calculate the overall aggregated index return.		
S&P Global Infrastructure Index	S&P Global Infrastructure Index is a benchmark that tracks the performance of 75 of the largest publicly traded infrastructure companies in the world. The index is made up of companies from developed and emerging markets, and is diversified across the energy, transportation, and utilities sectors.		

Glossary

The following are explanations of terms you may come across in this presentation. These definitions are not exhaustive and are intended as a guide only.

Alternatives (Asset Class)	Category of assets comprising alternative investments such as real estate, private equity, and private debt
Annualized Return	The return on an investment expressed as a percentage that is rescaled to represent the one-year return of that investment
Annualized Volatility	Typically measured by "standard deviation," annualized volatility is the magnitude of fluctuation of an investment return. Just like annualized return, annualized volatility is expressed as a percentage that is rescaled to represent the one-year volatility of an investment
Artificial Intelligence ("AI")	The simulation of human intelligence processes by machines, particularly computer systems, enabling them to perform tasks such as learning, reasoning, problem-solving, perception, and language understanding
Assets Under Management ("AUM")	Total market value of all financial assets that an individual or financial institution manages on behalf of investors
Compound Annual Growth Rate ("CAGR")	The rate of return that would be required for an investment to grow from its beginning balance to its ending balance, assuming profits were reinvested at the end of each period of the investments' lifespan
Capital Expenditure	When an investor's committed capital is allocated / deployed to an investment
Carried Interest	Performance fee and contractual right that entitles the GP of an investment fund to share in the fund's profits, if any, over a pre-determined performance hurdle. See American-Style Waterfall, European-Style Waterfall, Equity Waterfall
Cash Flows	Cash flows refer to the movement of money into and out of a business, representing the net amount of cash generated or used during a specific period, which includes operating, investing, and financing activities
Cloud	The cloud refers to a network of remote servers that store, manage, and process data and applications over the internet, allowing users to access and utilize computing resources on demand without needing local infrastructure
Correlation	A statistical measure that describes the degree to which two variables move in relation to each other, indicating whether an increase or decrease in one variable is associated with an increase or decrease in another
Data Center	A facility that houses a large number of computer servers and associated components, such as storage systems and networking equipment, designed to manage, store, and process vast amounts of data, ensuring high availability, security, and efficient operation for businesses and organizations
Denominator Effect	Refers to the impact on a fund's performance metrics and investment decisions due to changes in the overall size of the investment portfolio relative to its commitments or the total assets under management (AUM)
Depreciation	Depreciation is the accounting process of allocating the cost of a tangible asset over its useful life, reflecting the decrease in value due to wear and tear, obsolescence, or age
Digital Infrastructure	Refers to the underlying systems and technologies that enable the storage, processing, and transmission of digital data, including hardware (servers, data centers), software (cloud services, applications), networks (internet connectivity, telecommunications), and protocols that support digital communication and services
Diversification	The practice of investing in a variety of investments. A diversified portfolio can be a risk management technique and contains a mix of distinct assets and investments to offset losses from any single asset class, thereby lessening the impact on the overall portfolio
Dry Powder	The uninvested capital of a fund that can be used to make investments. It can be in cash or marketable securities that are low risk and highly liquid and convertible to cash

Glossary (Cont'd)

The following are explanations of terms you may come across in this presentation. These definitions are not exhaustive and are intended as a guide only.

EBITDA CAGR	A financial metric that measures the annual growth rate of a company's Earnings Before Interest, Taxes, Depreciation, and Amortization (EBITDA) over a specific period. It provides insight into the company's operational performance and profitability growth, expressed as a percentage
Economic Cycle	Refers to the natural fluctuation of economic activity over time, characterized by periods of expansion (growth) and contraction (recession) in an economy, typically measured by changes in GDP, employment, and production levels
Hedging Inflation	Using investments or financial instruments to mitigate a decrease in the purchasing power of money, inflation being the general increase in prices and fall in the purchasing value of money
High Barriers to Entry	High barriers to entry are obstacles that make it difficult for new competitors to enter a market, such as high capital requirements, regulatory hurdles, and strong brand loyalty
Hyperscaler	A large-scale cloud service provider that operates extensive data centers and offers scalable computing resources and services, typically characterized by significant infrastructure, high efficiency, and the ability to handle massive amounts of data and traffic, such as Amazon Web Services, Microsoft Azure, and Google Cloud
Indexed to Inflation	Refers to a financial mechanism where the value of an asset, payment, or financial obligation is adjusted based on changes in the inflation rate. This ensures that the real value of the asset or payment remains constant over time, preserving purchasing power
Inflation-Linked	Inflation-linked refers to financial instruments or contracts that have their value or returns adjusted based on changes in inflation, ensuring that the purchasing power of the investment or payment is maintained in response to rising prices
Investment-Grade Bonds	Bonds with a high credit rating, meaning they generally have a relatively low risk of default
Institutions	Organizations that invest large sums of money on behalf of their members or clients, such as pension funds, insurance companies, endowments, and sovereign wealth funds, typically seeking to achieve specific financial goals and manage risk
Liquidity	Ability for fund investors to subscribe and redeem units in a fund. The more liquid a fund means the greater ease to subscribe and redeem units
Logistics	Tangible and intangible resources used in the logistics process, including warehouses, transportation vehicles, inventory, technology systems, and equipment that facilitate the storage, movement, and management of goods throughout the supply chain
MM TEU	This unit indicates the throughput in millions of TEUs, providing a clearer picture of global trade activity and port performance. One TEU represents the capacity of a standard 20-foot shipping container
Powered Landbank	Refers to a portfolio of land assets that are equipped with necessary infrastructure and utilities, such as electricity, water, and telecommunications, making them ready for development or use
Pricing Power	The ability of a company to raise prices without significantly reducing demand for its products or services, often due to strong brand loyalty, unique offerings, or a lack of competition
Renewables	Energy sources that are naturally replenished, such as solar, wind, hydroelectric, geothermal, and biomass, offering sustainable alternatives to fossil fuels with minimal environmental impact
Unlisted Infrastructure	A sector-specialized private fund that only invests in infrastructure
Unrealized Value	Also referred to as residual value. Unrealized value is the total capital from investments that have not been liquidated
Volatility	A statistical measure of the dispersion of returns for a given security or market index
Zettabytes	A unit of digital information equal to approximately 1,073,741,824 gigabytes (GB)

Endnotes

1. PME data contained herein was generated by Cambridge Associates' PME tool as of March 31, 2024, and was not calculated by Blackstone. PME methodology replicates the date and amount of cash flows from Cambridge Private Equity Index capital calls or distributions in a public market index (i.e., MSCI ACWI). There are multiple PME calculation methodologies that can be used to compare private and public markets, and the use of a different PME calculation methodology may result in a different outcome than the one shown here. Cambridge Associates' Private Investments Database is a collection of private fund performance including the performance of buyout, growth equity, private equity energy, and subordinated capital funds. The private fund and investment-level performance information is drawn from the quarterly and audited annual financial statements of the fund managers and each manager's reported performance numbers are independently recreated from the financial statements and verified by Cambridge Associates.

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ERISA Fiduciary Disclosure. The foregoing information has not been provided in a fiduciary capacity under ERISA, and it is not intended to be, and should not be considered as, impartial investment advice.

Forward-Looking Statements. Certain information contained in the Materials constitutes "forward-looking statements," which can be identified by the use of forward-looking terminology or the negatives thereof. These may include financial estimates and their underlying assumptions, statements about plans, objectives and expectations with respect to future operations, and statements regarding future performance. Such forward-looking statements are inherently uncertain and there are or may be important factors that could cause actual outcomes or results to differ materially from those indicated in such statements. Blackstone believes these factors include but are not limited to those described under the section titled "Risk Factors" in its Annual Report on Form 10-K for the most recent fiscal year ended December 31, of that year, and any such updated factors included in its periodic filings with the Securities and Exchange Commission, which are accessible on the SEC's website at www.sec.gov. These factors should not be construed as exhaustive and should be read in conjunction with the other cautionary statements that are included in the Materials and in the filings. Blackstone undertakes no obligation to publicly update or review any forward-looking statement, whether as a result of new information, future developments or otherwise.

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Images. The Materials contain select images of certain investments that are provided for illustrative purposes only and may not be representative of an entire asset or portfolio or of a Fund's entire portfolio. Such images may be digital renderings of investments

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Index Comparison. The volatility and risk profile of the indices presented is likely to be materially different from that of a Fund. In addition, the indices employ different investment guidelines and criteria than a Fund and do not employ leverage; as a result, the holdings in a Fund and the liquidity of such holdings may differ significantly from the securities that comprise the indices. The indices are not subject to fees or expenses, and it may not be possible to invest in the indices. The performance of the indices has not been selected to represent an appropriate benchmark to compare to a Fund's performance, but rather is disclosed to allow for comparison of a Fund's performance to that of well-known and widely recognized indices. A summary of the investment guidelines for the indices persented are available upon request. In the case of equity indices, performance of the indices reflects the reinvestment of dividends.

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