

# Q3 2022 Antero Peak Group — Investor Update

This material is intended to provide an overview of the Antero Peak Group's investment philosophy and process. Investment in any vehicle managed by the team is subject to further documentation contained in the vehicle's offering materials. This material is not for use by retail investors and may not be reproduced or distributed without Artisan Partners' permission. This material does not constitute an offer or solicitation where such actions are not authorized or lawful. Further limitations on the availability of products or services described herein may be imposed.

This material is only intended for investors which meet qualifications as institutional investors as defined in the applicable jurisdiction where this material is received, which includes only *Professional Clients* or *Eligible Counterparties* as defined by the UK Financial Conduct Authority where this material is issued by APUK. This material is not for use by retail investors and may not be reproduced or distributed without Artisan Partners' permission.

For Institutional Investors Only — Not for Onward Distribution



#### **Artisan Partners**

## Important Disclosures

These materials are provided solely for use in a private meeting and are intended for informational and discussion purposes only. Investment is subject to further documentation.

This document is not a prospectus. Unless expressly stated, it has not otherwise been registered with, or approved by, any regulatory authority in any jurisdiction.

This material is for informational purposes only and shall not be construed as investment or tax advice. Prospective investors should consult their financial and tax adviser before making investments in order to determine whether investment will be suitable for them.

Unless otherwise indicated, the Artisan Strategy characteristics relate to that of an investment composite or a representative account managed within a composite. It is intended to provide a general illustration of the investment strategy and considerations used by Artisan Partners in managing that strategy. Individual accounts may differ, at times significantly, from the reference data shown due to varying account restrictions, fees and expenses, and since-inception time periods, among others. Where applicable, this information is supplemental to, and not to be construed with, a current or prospective client's investment account information.

The information presented is believed to be materially correct as at the date indicated, but no representation or warranty (express or implied) is made as to the accuracy or completeness of any of this information. Nothing set out in these materials is or shall be relied upon as a promise or representation as to the past or future.

Statements contained in the presentation are based on the beliefs and assumptions of our portfolio management team and on the information currently available to our team at the time of such statements. Although we believe that the expectations reflected in these statements are reasonable, we can give no assurance that these expectations will prove to be correct.

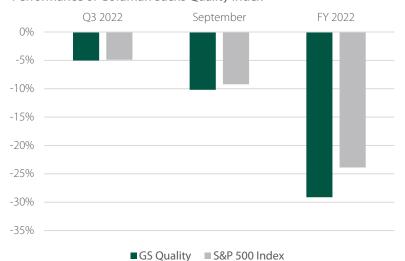
INVESTMENT RISKS: Investments will rise and fall with market fluctuations and investor capital is at risk. For further information on the investment risks related to this material, please see the Notes and Disclosures section

## Quarter in Review

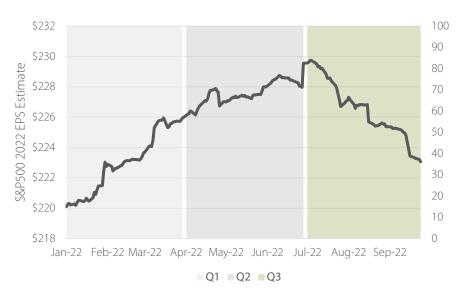
## Understanding Q3 performance and portfolio positioning

- Quality continued to modestly underperform in the third quarter
- Inflation continued reading above expectations, and Fed policy moved incrementally more hawkish. The quarter saw another sharp rise in interest rates (~80bps to the 10-Year US Treasury) bringing nominal and real yields to 12-year highs
- Our broader view is beginning to play out as upward revisions slowed materially in the third quarter and moved lower for 2H22
- The Antero Peak bottom-up process, which emphasizes earnings differentiation, continues to lead us to a <a href="https://example.com/high-quality.lower-beta">high-quality, lower-beta</a> portfolio, with limited fundamental cyclicality

# Quality Continued to Modestly Underperform Performance of Goldman Sachs Quality Index



# S&P500 EPS Estimates for 2022 Peaked in Early Q3 2022 S&P500 EPS Consensus Estimate



Source: Antero Peak Group/S&P/Goldman Sachs. As of 30 September 2022. Past performance does not guarantee and is not a reliable indicator of future results. The Goldman Sachs Quality Index is composed of High Quality names in the US and built to provide maximal combining z-scores of four fundamental variables across profitability, leverage, size and earnings stability. The factor pair is controlled to have limited exposure to Axioma L3 Industry and designed to be diversified, highly liquid and tradeable in an efficient manner.

# Earnings Estimates for the S&P 500 Index Have Considerable Downside Risk We expect the earnings environment to become increasingly challenging

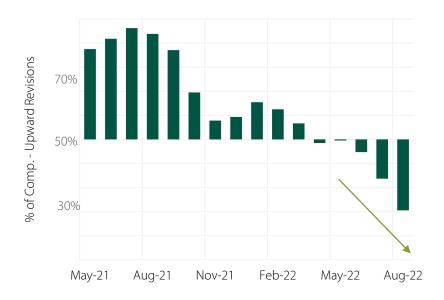
- Earnings estimates for the next two years are well above the long term trendline, and appear to have material downward revisions ahead
- Revisions breadth is decisively worsening, as estimates for most companies currently move lower
- Federal Reserve continues to tighten monetary policy resulting worsening financial conditions and declining equity prices
- The consensus currently expects a very aggressive 9% earnings growth for 2023, which is unlikely to be achieved

The Consensus Path for NTM EPS Appears to be Extremely Aggressive, and Well Above the Long-Term Trendline S&P 500 Index NTM EPS Expectations

\$250

The Majority of Companies are Now Seeing Downward Revisions S&P500 Revisions Breadth





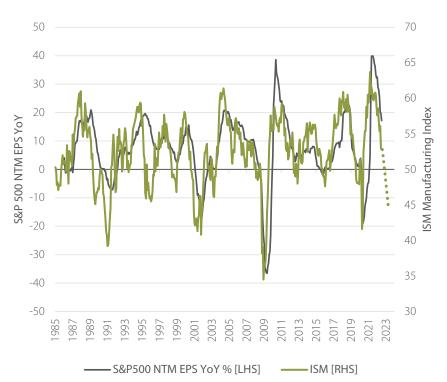
Source: Antero Peak Group/S&P. As of 30 September 2022. This material contains the views and opinions of the manager as of the date of publication, is based on current market conditions, which will fluctuate, and is subject to change without notice.

## LEIs Also Point to Substantial Downside Risks

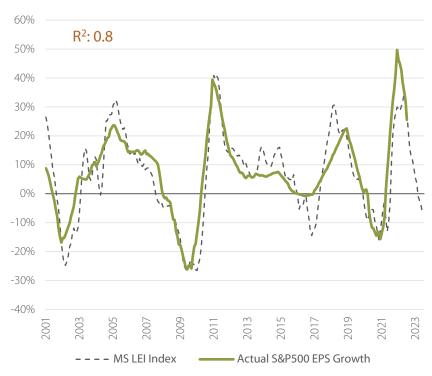
## Leading Economic Indicators (LEIs) suggest earnings have substantial downside risks

• We use leading indicators in our process, like the ISM Manufacturing Index, because it is highly predicative of future earnings and estimate revisions

The ISM Mfg. Index Implies Further Downside Risk... ISM Manufacturing Index vs. S&P500 NTM EPS YoY%



...As Does the Morgan Stanley LEI Index Morgan Stanley LEI Index vs. S&P500 Actual EPS Growth



Source: Antero Peak Group/ISM/S&P/Morgan Stanley. As of 30 September 2022, Morgan Stanley Leading Earnings Indicator (MSLEI) is a macro factor-based earnings model that leads actual earnings growth by one year with a 0.7 12-month leading correlation. The ISM Manufacturing Index tracks the general state of the economy as it relates to businesses.

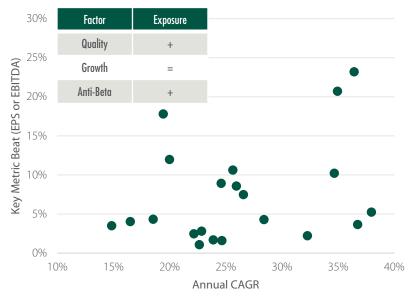
# Our Portfolio is Well Positioned for the Challenging Backdrop

## We believe the portfolio's fundamentals should outpace the S&P 500

- The current portfolio is positioned to outpace the S&P 500 on our key fundamental metrics: earnings revisions (relative revisions and growth), accelerating KPIs, and ROIC expansion
- Our bottom-up process has naturally led us to a lower beta portfolio, which typically does well when revisions (the ISM) slow
- Factor exposures remain mild, with slight overweight positions in Quality and Anti-Beta, and neutral exposure to Growth

# We expect Upward Revisions Across the Portfolio with Mild Factor Exposures

Antero Peak Strategy Estimates: EPS Beat vs Annual Expected CAGR



# Our Research has led us to a Low Beta Opportunity Set ISM Relationship Relative to S&P 500 High vs. Low Beta



Source: Antero Peak Group/S&P/ISM. As of 30 September 2022. Factor exposures are relative to the S&P 500 Index. Factor is represented by relative exposure to the Bloomberg US Pure Growth Index (Growth), DJ US Thematic Market Neutral Quality Index (Quality) and the DJ US Thematic Market Neutral Anti-Beta Index (Ant-Beta). The ISM Manufacturing Index tracks the general state of the economy as it relates to businesses.

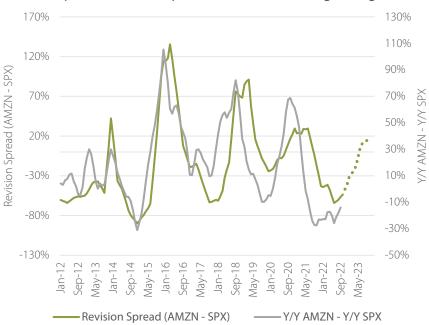
# Amazon—Emerging Process Fit Inflecting on Multiple Fronts

- Revenue: COVID resulted in a material deceleration in reported growth over the past 12 months. We now forecast a 10ppt re-acceleration in growth as secular tailwinds in ecommerce prevail over cyclical fluctuations.
- EBIT: Amazon is under-earning in its retail division by ~\$24B due to the over-provisioning of capacity in its fulfilment and warehouse networks during Covid. A return to pre-COVID profitability implies a material inflection.
- Valuation: AMZN is trading at a trough multiple on trough earnings. <u>The ROIC of the business should inflect positively over the coming</u>
   <u>12-months</u> which we believe can act as a tailwind to valuation multiples.

# Amazon Stock Continues to Follow Revisions... AMZN Stock Price vs. FY 2022 FBIT Estimate



#### ...Our Research Points to a Sharp Positive Inflection Revision Spread vs. SPX Outperformance - 3mo rolling average



Source: Antero Peak Group/S&P/Company Filings. Past performance does not guarantee and is not a reliable indicator of future results. As of 30 September 2022. See Notes and Disclosures for portfolio holdings weights. The S&P 500 Index (SPX) measures the performance of 500 US companies focused on the large-cap sector of the market.

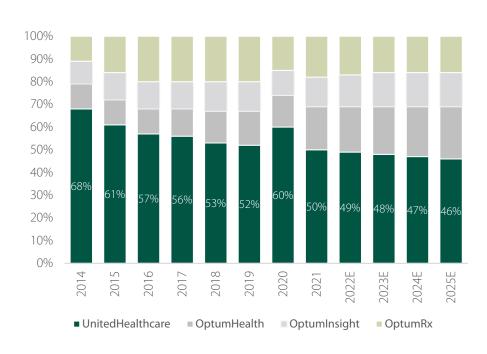
## Value-Based Care—Health Care Insurance Providers

- Insurers that can leverage the core business to vertically integrate are positioned with the right incentives—lowering overall health care costs without sacrificing patient care
- Network effect provides structural acceleration forces while scale provides a barrier to competition
- Medicare Advantage provides consistent growth, driven by demographic tailwinds

# Vertical Integration Creates a Virtuous Cycle Vertically integrated model illustration

# Expand Primary Care Vertical Integration Creates Ideal Incentives Improved Core MLR Increase Scale Take Share

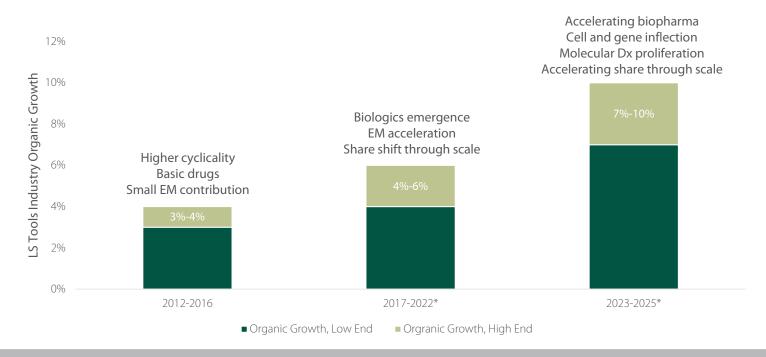
# Integrated Platform Provides Mix Shift / Higher Revenue Quality UNH Business Mix Over Time



Source: Antero Peak Group. As of 30 September 2022. Medical loss ratio (MLR) is the share of total health care premiums spent on medical claims and efforts to improve the quality of care. This material contains the views and opinions of the manager as of the date of publication, is based on current market conditions, which will fluctuate, and is subject to change without notice. See Notes and Disclosures for portfolio holdings weights.

## Life Sciences—Innovation-Driven Structural Acceleration Continues

- We think the industry continues to <u>structurally accelerate</u> in the coming years
- Leading to higher earnings, ROICs, and multiples creating a very favorable investing landscape for our thematic process
- Larger companies becoming increasingly difficult to compete with



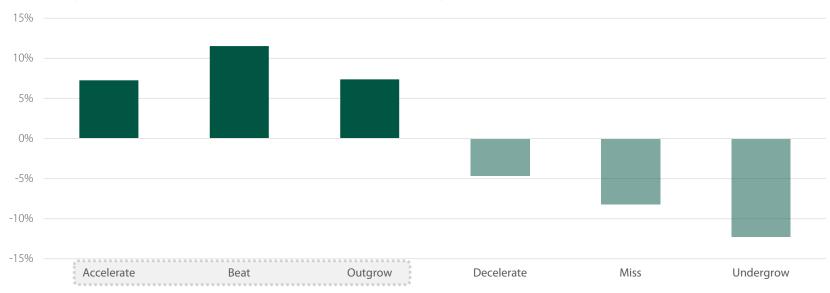
## New Major Revenue Accelerators are Emerging

Source: Antero Peak Group. As of 30 September 2022. \*Future organic growth rates based on estimates from Antero Peak Group. This material contains the views and opinions of the manager as of the date of publication, is based on current market conditions, which will fluctuate, and is subject to change without notice.

# Our Process is Supported by Empirical Data We have a clearly defined game plan

- Our process is focused on three key pillars:
  - 1) Inflection points that lead to broad based, often industry wide accelerations and high earnings growth rates
  - 2) Bottom-up, rigorous differentiation that leads to high and sustained upward estimate revisions
  - 3) Rising Return on Invested Capital ("ROIC") that lead to multiple expansion.
- There is strong empirical evidence that gives us confidence in our focus areas:

# S&P 500 Index Constituents Follow a Reliable Fundamental Pattern Rolling 10-year median performance of S&P constituents categorized by EPS



Source: FactSet/S&P/Antero Peak Group. Based on S&P 500 Index constituents from 30 Sep 2009 to 30 September 2021. Rolling 10-year performance based on constituents in the S&P 500® Index and categorization has been determined by the Antero Peak Group. Categories are rebalanced every September 30 over the trailing 10-year period based on the following criteria — Accelerate: Future EPS growth in upcoming year is greater than previous year; Beat: EPS is greater than expected 12 months prior; Outgrow: EPS growth rate in excess of the S&P 500® Index. Decelerate: Future EPS growth in upcoming year is less than previous year; Miss: EPS is less than expected 12 months prior; Undergrow: EPS growth rate less than the S&P 500® Index. Past performance is not indicative of future results.

#### Antero Peak Strategy

## Investment Results

Average Annual Total Returns (% os of 30 Sep 2022)  Composite: Gross  Composite: Net  S&P 500° Index  Historical Monthly Returns (%)			QTD 1 Yr -5.72 -19.55 -5.96 -20.37 -4.88 -15.47		3 Yr <b>8.01</b> <b>6.94</b> 8.15		5 Yr	Inception 16.32 15.18 9.78		Inception 127.01 115.17 65.83				
							<b>14.11 12.99</b> 9.23							
		-4.88												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec	YTD
2022	Composite: Gross	-11.17	-3.78	4.94	-8.20	-3.46	-4.75	7.36	-3.41	-9.08	_			-28.61
	Composite: Net	-11.25	-3.86	4.86	-8.28	-3.54	-4.83	7.27	-3.50	-9.16				-29.16
	S&P 500® Index	<b>-</b> 5.17	<b>-</b> 2.99	3.71	<del>-</del> 8.72	0.18	<del>-</del> 8.25	9.22	<del>-</del> 4.08	<del>-</del> 9.21		<del></del>		<del>-</del> 23.87
2021	Composite: Gross	-2.74	6.19	-0.63	4.14	0.84	0.73	4.55	3.35	-5.31	7.80	-1.02	5.61	25.17
	Composite: Net	-2.83	6.11	-0.72	4.06	0.76	0.65	4.47	3.27	-5.39	7.72	-1.10	5.52	23.95
	S&P 500® Index	-1.01	2.76	4.38	5.34	0.70	2.33	2.38	3.04	-4.65	7.01	-0.69	4.48	28.71
2020	Composite: Gross	0.36	-4.70	-10.10	9.79	5.63	3.86	7.06	4.75	-1.84	-4.17	15.94	3.27	30.81
	Composite: Net	0.28	-4.78	-10.18	9.71	5.55	3.78	6.98	4.67	-1.92	-4.26	15.86	3.19	29.53
	S&P 500® Index	-0.04	-8.23	-12.35	12.82	4.76	1.99	5.64	7.19	-3.80	-2.66	10.95	3.84	18.40
2019	Composite: Gross	5.80	4.35	3.08	4.99	-4.24	5.25	2.55	2.12	-1.36	2.17	2.57	2.87	34.10
	Composite: Net	5.72	4.27	2.99	4.91	-4.32	5.17	2.47	2.03	-1.44	2.08	2.49	2.79	32.80
	S&P 500® Index	8.01	3.21	1.94	4.05	-6.35	7.05	1.44	-1.58	1.87	2.17	3.63	3.02	31.49
2018	Composite: Gross	9.02	-1.55	-0.28	1.14	2.13	2.50	3.26	3.38	0.91	-4.20	2.92	-7.33	11.55
	Composite: Net	8.94	-1.63	-0.36	1.06	2.05	2.42	3.18	3.30	0.82	-4.28	2.84	-7.41	10.45
	S&P 500® Index	5.73	<del>-</del> 3.69	<del>-</del> 2.54	0.38	2.41	0.62	3.72	3.26	0.57	<b>-</b> 6.84	2.04	<b>-</b> 9.03	<del>-</del> 4.38
2017	Composite: Gross	_	_	_	_	3.86	0.27	7.54	2.59	2.09	4.87	4.85	0.66	29.81
	Composite: Net	<del></del>	_	<del></del>	<del></del>	3.78	0.19	7.46	2.50	2.00	4.78	4.76	0.57	28.98
	S&P 500® Index					1.41	0.62	2.06	0.31	2.06	2.33	3.07	1.11	13.70

(%) 12 Months Ended 30 Sep	2018	2019	2020	2021	2022
Composite: Net	33.79	12.55	21.71	26.20	-20.37

Source: Artisan Partners/S&P. Past performance does not guarantee and is not a reliable indicator of future results. Gross- and net-of-fees performance shown for the Composite. Current performance may be lower or higher than that shown. Returns less than one year are not annualized. Composite inception: 1 May 2017. The Strategy's investments in initial public offerings (IPOs) made a material contribution to performance. IPO investments may contribute significantly to a small portfolio's return, an effect that will generally decrease as assets grow. IPO investments may be unavailable in the future.

## Multiple Exciting Areas to Execute our Process

#### Data Monetization

With the proliferation of data analytics (Machine Learning, Al, Cloud, etc.), we are seeing more companies that possess significant data sets and have the ability monetize it through new products and customer applications

Companies: Aon, Elevance Health, Hilton Worldwide, McKesson Corp, Moody's Corp, S&P Global, UnitedHealth Group

#### De-Globalization

Numerous recent macro developments have likely accelerated a major shift towards more domesticated supply-chains as well as local raw material sourcing and manufacturing. We expect reliability and security to be the foundation for companies and countries moving forward, which will likely lead to more domestic raw material sourcing and manufacturing

Companies: Canadian National Railway, Canadian Pacific Railway, Cheniere Energy, Linde, NextEra Energy, Northrop Grumman Corp, Quanta Services

#### Digitization of Commerce

In an increasingly digital world, consumers are shifting their consumption habits towards online methods of discovery, engagement, and acquisition of products and services. As a result, companies are adapting to this changing landscape to better source, target, and capitalize on consumers through more targeted advertising, efficient distribution, and secure digital transactions.

Companies: Amazon.com, The Estee Lauder Cos, Intuit, Visa

#### Life Sciences

Mega themes like rising quality of life, healthcare, food, and water, have driven structural growth in global R&D spending. This, in addition to the advancement of drug technologies enabled by genetic sequencing, should accelerate investment.

Companies: Danaher Corp, Edwards Lifesciences, Thermo Fisher Scientific, Zoetis

#### Network Infrastructure Modernization

Data is growing exponentially and is putting pressure on network resources in the last mile of the network given asymmetric traffic patterns. We expect an acceleration in revenue growth for the industries exposed to this increased investment including infrastructure companies, providers of the communications hardware and the applications that run on the network

**Companies:** American Tower Corp., Motorola Solutions, SBA Communications, T-Mobile US

#### Transformation of the Enterprise

Technology increasingly exists to capture, analyze and act upon the large amounts of data that is captured. This digital transformation is a major paradigm shift and is in the early innings of adoption in most industries. There is an inflection in end-market demand for the companies that enable the transformation through software, communication services, and increasingly the adoption of AI

Companies: Microsoft, Palo Alto Networks, ServiceNow

See Notes and Disclosures pages for portfolio weights.

## Notes and Disclosures

This section of this presentation contains information important to a complete understanding of the material presented. Please review it carefully.

Artisan Partners Limited Partnership (APLP) is an investment adviser registered with the U.S. Securities and Exchange Commission (SEC). Artisan Partners UK ILP (APUK) is authorized and regulated by the Financial Conduct Authority and is a registered investment adviser with the SEC. APEL Financial Distribution Services Limited (AP Europe) is authorized and regulated by the Central Bank of Ireland. APLP, APUK and AP Europe are collectively, with their parent company and affiliates, referred to as Artisan Partners herein.

Form ADV: Additional information about APLP or APUK, the firms, its partners, ownership, investment strategies, fees and expenses and policies is contained in each firm's respective Form ADV. Each firm will supply a copy of its Form ADV upon request.

#### Antero Peak Strateav Investment Risks

A non-diversified portfolio may invest a larger portion of assets in securities of a smaller number of issuers and performance of a single issuer may affect overall portfolio performance greater than in a diversified portfolio. The portfolio's use of derivative instruments may create additional leverage and involve risks different from, or greater than, the risks associated with investing in more traditional investments. High portfolio turnover may adversely affect returns due to increased transaction costs and creation of additional tax consequences. Securities of small- and medium-sized companies tend to have a shorter history of operations, be more volatile and less liquid and may have underperformed securities of large companies during some periods. International investments involve special risks, including currency fluctuation, lower liquidity, different accounting methods and economic and political systems, and higher transaction costs. These risks typically are greater in emerging markets. Investors investing in strategies denominated in non-local currency should be aware of the risk of currency exchange fluctuations that may cause a loss of principal. These risks, among others, are further described in Artisan Partners Form ADV, which is available upon request.

This material contains the views and opinions of the manager as of the date of publication, is based on current market conditions, which will fluctuate, and is subject to change without notice. While the information contained herein is believed to be reliable, there is no guarantee to the accuracy or completeness of any statement in the discussion. This material is for informational purposes only and should not be considered as investment advice or a recommendation of any investment service, product or individual security. The investment process information contained herein represents a simplified presentation of a complex process. The investment process is subject to change and may differ materially from what is stated herein. The examples provided herein are not intended to constitute a past specific recommendation or past or current holding. These stylized examples are only intended to convey a high-level overview of the investment team's approach when analyzing a company, and the type of information that is available about such company. Any forecasts contained herein are for illustrative purposes only and are not to be reliad upon as advice or interpreted as a recommendation. Additionally, there is no obligation to update, modify or amend this material or to otherwise notify a reader in the event that any matter stated herein, or any opinion, projection, forecast or estimate set forth herein, changes or subsequently becomes inaccurate.

Analyses and opinions contained herein may be based on assumptions that if altered can change the analyses or opinions expressed. Nothing contained herein shall constitute any representation or warranty as to future performance of any financial instrument, credit, currency rate or other market or economic measure.

Holdings: For the purpose of determining the portfolio's holdings, securities of the same issuer are aggregated to determine the weight in the Strategy. The holdings mentioned above comprised the following percentages of a representative account within the Antero Peak Composite's total net assets as of as 30 Sep 2022: T-Mobile US Inc 7.9%, UnitedHealth Group Inc 7.6%, Amazon.com Inc 7.5%, Canadian Pacific Railway Ltd 6.5%, Microsoft Corp 6.4%, NextEra Energy Inc 6.3%, American Tower Corp 5.3%, McKesson Corp 4.6%, S&P Global Inc 4.4%, Thermo Fisher Scientific Inc 4.3%, Danaher Corp 4.2%, Aon PLC 4.1%, Visa Inc 3.6%, Motorola Solutions Inc 3.6%, TransDigm Group Inc 3.2%, Northrop Grumman Corp 3.2%, Monster Beverage Corp 2.3%, SBA Communications Corp 2.3%, Edwards Lifesciences Corp 2.1%, The Estee Lauder Cos Inc 2.0%, Oracle Corp 1.5%, Cheniere Energy Inc 1.3%, Quanta Services Inc 1.3%, Intuit Inc 1.1%, Elevance Health Inc 1.0%, Moody's Corp 1.0%, Canadian National Railway Co 1.0%, Linde PLC 0.5%, Atlassian Corp PLC 0.5%. For the purpose of determining the portfolio's holdings, securities of the same issuer are aggregated to determine the weight in the portfolio. Holdings information is not intended to represent or predict portfolio investment performance or as a recommendation of any individual security. Securities referenced may not be representative of all portfolio holdings and holdings are subject to change without notice.

### Notes and Disclosures

Earnings per Share (EPS) is the portion of a company's profit allocated to each outstanding share of common stock. Price-to-Earnings (P/E) is a valuation ratio of a company's current share price compared to its per-share earnings. Return on Assets (ROA) is a profitability ratio that measures the amount of net income returned as a percentage of total assets. The Purchasing Managers' Index (PMI) is an index of the prevailing direction of economic trends in the manufacturing and service sectors.

For the purpose of determining the portfolio's holdings, exposures are delta-adjusted at the issuer level and may include multiple securities of the same issuer. Holdings information is not intended to represent or predict portfolio investment performance or as a recommendation of any individual security. The portfolio's exposures based on the economic value of investments (including delta-adjusting options exposures). Delta-adjusted options exposure is a measure of the market exposure created by the options and accounts for the sensitivity of options to changes in the price of the underlying security. In comparison, measuring the exposure of an option at the market value of the option or notional value can understate or overstate, respectively, the economic exposure and risk. This estimate of portfolio exposure is only an approximation of the portfolio at a point in time.

Composite Performance: All performance results are net of commissions and transaction costs, and have been presented gross or net of investment advisory fees. For performance presented net of fees, fees may be higher for certain pooled vehicles and the composite may include accounts with performance-based fees. Dividend income is recorded net of foreign withholding taxes on ex-dividend date or as soon after the ex-dividend date as the information becomes available to Artisan Partners. Interest income is recorded on the accrual basis. Performance results for the index include reinvested dividends and are presented net of foreign withholding taxes but, unlike the portfolio's returns, do not reflect the payment of sales commissions or other expenses incurred in the purchase or sale of the securities included in the indices

Unless otherwise indicated, the Artisan Strategy characteristics relate to that of an investment composite or a representative account managed within a composite. It is intended to provide a general illustration of the investment strategy and considerations used by Artisan Partners in managing that strategy. Individual accounts may differ, at times significantly, from the reference data shown due to varying account restrictions, fees and expenses, and since-inception time periods, among others. Where applicable, this information is supplemental to, and not to be construed with. a current or prospective client's investment account information.

The S&P 500 Index is a product of S&P Dow Jones Indices LLC. ("S&P DJI") and/or its affiliates and has been licensed for use. Copyright © 2021 S&P Dow Jones Indices LLC, a division of S&P Global, Inc. All rights reserved. Redistribution or reproduction in whole or in part are prohibited without written permission of S&P Dow Jones Indices LLC. S&P® is a registered trademark of S&P Global and Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"). None of S&P DJI, Dow Jones, their affiliates or third party licensors makes any representation or warranty, express or implied, as to the ability of any index to accurately represent the asset class or market sector that it purports to represent and none shall have any liability for any errors, omissions, or interruptions of any index or the data included therein.

The index(es) are unmanaged; include net reinvested dividends; do not reflect fees or expenses; and are not available for direct investment.

This material is provided for informational purposes without regard to your particular investment needs. This material shall not be construed as investment or tax advice on which you may rely for your investment decisions. Investors should consult their financial and tax adviser before making investments in order to determine the appropriateness of any investment product discussed herein.

Artisan Partners is not registered, authorized or eligible for an exemption from registration in all jurisdictions. Therefore, services described herein may not be available in certain jurisdictions. This material does not constitute an offer or solicitation where such actions are not authorized or lawful, and in some cases may only be provided at the initiative of the prospect. Further limitations on the availability of products or services described herein may be imposed.

This material is only intended for investors which meet qualifications as institutional investors as defined in the applicable jurisdiction where this material is received, which includes only Professional Clients or Eligible Counterparties as defined by the Markets in Financial Instruments Directive (MiFID) where this material is issued by APUK or AP Europe. This material is not for use by retail investors and may not be reproduced or distributed without Artisan Partners' permission.

In the United Kingdom, issued by APUK, 25 St. James's St., Floor 3, London SW1A 1HA, registered in England and Wales (LLP No. OC351201). Registered office: Reading Bridge House, Floor 4, George St., Reading, Berkshire RG1 8LS. In Ireland, issued by AP Europe, Fitzwilliam Hall, Fitzwilliam PI, Ste. 202, Dublin 2, D02 T292. Registered office: 70 Sir John Rogerson's Quay, Dublin 2, D02 R296 (Company No. 637966).

Australia: This material is directed at wholesale clients only and is not intended for, or to be relied upon by, private individuals or retail investors. Artisan Partners Australia Pty Ltd is a representative of APLP (ARBN 153 777 292) and APUK (ARBN 603 522 649). APLP and APUK are respectively regulated under US and UK laws which differ from Australian laws and are exempt from the requirement to hold an Australian financial services license under the Australian Corporations Act 2001 in respect to financial services provided in Australia.

Canada: This material is distributed in Canada by APLP and/or Artisan Partners Distributors LLC, which conducts activities in Canada under exemptions from the dealer, portfolio manager and investment fund manager registration requirements of applicable Canadian securities laws. This material does not constitute an offer of services in circumstances where such exemptions are not available. APLP advisory services are available only to investors that qualify as "permitted clients" under applicable Canadian securities laws.

In no event shall Artisan Partners have any liability for direct, indirect, special, incidental, punitive, consequential (including, without limitation, lost profits) losses or any other damages resulting from the use of this material.

© 2022 Artisan Partners. All rights reserved.

For Institutional Investors Only — Not for Onward Distribution

artisan partners