2024 OUTLOOK For Informational Purposes Only

# The Growth Opportunities Available from Al



# Why Consider Artificial Intelligence?

Artificial intelligence, or AI, has become far more sophisticated in recent years, creating both disruption and opportunity. It brings risk, but there will be winners. We seek to support investors in their understanding of this space.

# **Key Takeaways**

- As a theme, Al has seen significant investor interest and large inflows. The top 10 companies leading the way globally have quickly become household names. We offer new data to help investors understand the leaders in this space.
- As Al is implemented by companies of all shapes and sizes, we could see profit margin expansion, but it carries risk too.
   Obsolescence is a headline risk, but hidden risks can expose themselves at a portfolio level too.
- Share prices have run up quickly for many Al-focused companies and now carry lofty valuations. On our analysis, second-derivative plays look to provide better opportunity.

# **Turning Ideas into Actions for 2024**



**Second-Derivative Plays:** Rather than focusing on the big Al players, we see potential opportunity in the next rung of Al adopters. This includes those who can strengthen their products using Al, without the valuation risk.



#### **Beware Ultra-High Valuations:**

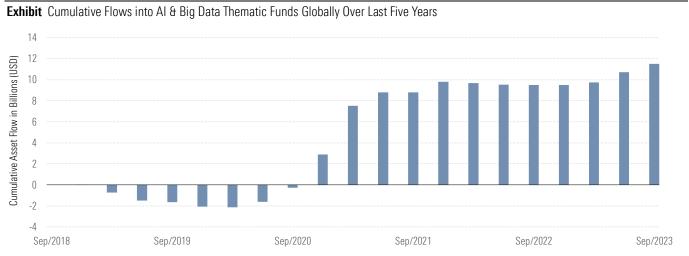
As prices have already run up very quickly, there is an embedded expectation of strong growth priced in. As competition rises, we could see disappointments.



Focus on Behaviour: Investors have a bad record of timing their entry into and out of thematic funds. If you find yourself tempted to chase the Al theme, make sure you are aware of your own behaviour.

## Taking Stock of the Al Landscape

Artificial intelligence (AI) is largely expected to change the way business is conducted, especially with the progression in generative AI. The pace of change is remarkable, with investors naturally eager to understand the winners and losers. While we'd warn investors not to let hype dominate their investment decisions, we are seeing a tremendous shift in the make-up of equity markets, which are worthy of note for all investor types.

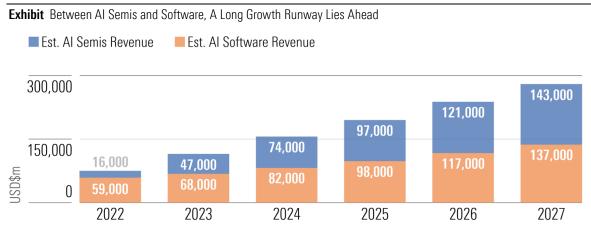


Source: Morningstar Direct, Morningstar Global Thematic Database. Data as of 30 September 2023. For illustrative purposes only.

# What, How, Who, and Why?

By now, the majority of people have seen the power of Al first-hand. We expect 2024 to be a year of phenomenal change in this space, with rife competition and practically every company in the world seeking to understand opportunities for automation or growth.

- What does Al solve? We see two streams that are additive to company performance. The first is automation, creating
  efficiencies in the back-office and process improvements. The second is product and service enhancement, potentially creating
  new revenue growth opportunities.
- How do we expect it to be used? Anecdotally, back-office efficiency is the primary motive for most large companies at this stage. However, we expect generative AI and predictive analytics to play a greater role across practically every business function and industry.
- Who will be using it? With only a small dose of imagination, we can quickly identify use cases for over 90% of the workforce in developed and many emerging markets.
- Why is everyone chasing this theme? This technology offers a significant opportunity to grow profit margins at little cost. There is a race for market share.



Source: Morningstar, Company Documents. Data as of 3 October 2023. Data presented is indicative and for illustrative purposes.



<b>Evhihit</b>	The Ton	10 Stocks Hold	in Artificial Intelligence	and Rig Data ETE	s and Mutual Funds Globally
CXIIIDIL	THE TOD	i in erocks dein	m Artinciai mtenidence	i anu biu Data err	s and iviulual runds Globally

Name	Ticker	Sector	Morningstar Star Rating	Economic Moat
NVIDIA Corp	NVDA	Technology	***	Wide
Microsoft Corp	MSFT	Technology	***	Wide
Alphabet Inc Class A	GOOGL	Communication Services	***	Wide
Amazon.com Inc	AMZN	Consumer Cyclical	***	Wide
Advanced Micro Devices Inc	AMD	Technology	***	Narrow
Tesla Inc	TSLA	Consumer Cyclical	***	Narrow
ServiceNow Inc	NOW	Technology	***	Wide
Meta Platforms Inc Class A	META	Communication Services	***	Wide
Taiwan Semiconductor Manufacturing Co Ltd ADR	TSM	Technology	****	Wide
Snowflake Inc Ordinary Shares - Class A	SNOW	Technology	***	None

Source: Morningstar Direct, Global Thematic Database, Star Rating and Economic Moat Data as of 31 October 2023.

The list of major players in the AI space are already household names, but valuations have increased significantly in anticipation of success. They have a first-mover advantage, although they are still subject to risk.

#### Risks to be Aware of in Al Stocks

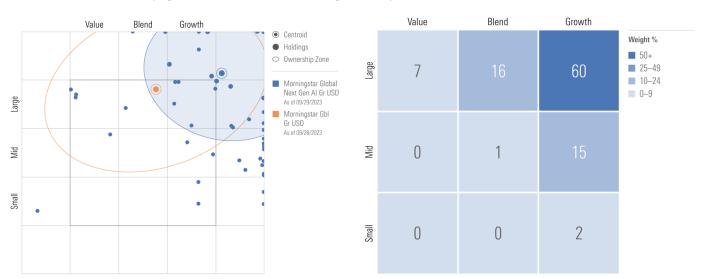
Regarding investment risks, Al does bring some new challenges to the table.

- Regulation and safety. Let's start with the risk of artificial intelligence itself. The technological capabilities are under immense
  scrutiny from governments and regulators. While it is widely acknowledged as a force for good, it also creates significant
  threats. We do expect regulation, although this will be regional and the big policy changes are likely to come in 2025.
- Valuation. Even fast-growing businesses can be poor investments if investors overpay for shares. It's also important to keep in mind that the largest portion of a growth company's value is derived from cash flows generated many years in the future. Companies that develop durable competitive advantages are more likely to sustain long-term free cash flow growth and could warrant richer valuations.

However, this is a very expensive race with significant uncertainty about who the future winners and losers will be. A lot has to go right for the primary-Al stocks to continue to deliver, which could happen, but the risk-to-reward can deteriorate if investors overpay.

- **Concentration.** As with any emerging technology trend, Al brings new uncertainties to companies and industries. As investors, we should acknowledge this higher level of uncertainty when considering position sizes.
- **Obsolescence.** It's far too early to confidently identify companies that will see their products and services become less relevant because of Al. Still, Al will likely bring change to many industries, and we should remain alert to potential shifts in a firm's industry structure. We're equally skeptical of company managers who downplay Al risks as we are those who overhype Al benefits.
- Hidden portfolio risks. Even well-informed investors have limited insight into the distant future. We shouldn't assume that
  because a company seems insulated from Al risks today that it will remain protected in five years' time. Further, investing
  heavily in Al-related companies can also bring significant portfolio tilts that could adversely alter the reward-for-risk in a total
  portfolio context.





**Exhibit** Know What You're Buying: At a Portfolio Level, Beware of Significant Style Biases

Source: Morningstar Direct. Morningstar Global Next Generation Artificial Intelligence Index. Data as of 31 October 2023.

## The Al Opportunity Entering 2024: Second-Derivative Plays

While the excitement surrounding the potential for artificial intelligence has boosted those stocks directly tied to AI, we think some of the more attractive undervalued opportunities are those that are second derivative plays on Al.

Here are four examples that we'd describe as second-derivative plays:

- Most companies do not have the expertise or financial wherewithal to build and maintain their own Al platforms. That's where IT consulting companies could come in with technical capabilities in artificial intelligence services.
- Another example is data management providers that host enterprise data on which artificial intelligence models are run.
- Al requires extremely high speeds to train its data models and we expect those with the highest networking speeds to allow it to reap the benefits of spending brought on by investments in generative Al.
- Data centers will likely experience a long tailwind from the explosion of growth in Al. As Al is built, trained, and rolled out, it will require a great deal of computing power and data storage.

# A Focus on Economic Moats Could be a Sensible Approach

In periods where product development is in over-drive, it is a dangerous game to chase the winners. A more sensible approach would ordinarily be to focus on durable competitive advantages.

Companies with economic moats could be more likely to benefit and may be less susceptible to disruption from Al than those without moats. Moats based on a combination of customer switching costs, unique data sets and brands could be particularly valuable. Companies with durable advantages could use Al to improve their products and services and strengthen their competitive positions. On the other hand, change brought about by Al could erode companies' economic moats or shift consumer demand away from their products and services. Investors should be on the lookout for permanent changes in industry structures and customer preferences.

In the end, stronger management teams who allocate capital effectively could influence better investment outcomes. Effectively integrating AI into existing products and services will be a complex endeavor for managers. Navigating new competitive threats will require sound strategy and solid execution. Moreover, managers may be tempted to overspend on Al-related product development or pursue ill-advised acquisitions. Consider investing in businesses whose managers have a track record of sensible capital allocation and effective execution.



## **Actions for Fund Selectors Who Want AI Exposure**

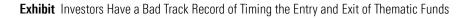
Investors may also use funds as a tool to gain exposure to the artificial intelligence theme. These have multiplied in number and now investors can choose from a veritable smorgasbord of options.

A look back at the commercialisation of technologies in the past shows that picking the eventual winners can be anything but straightforward. For example, in 2007, the year the iPhone launched, Nokia sold almost 40% of the world's mobile phone handsets. It is equally as likely that some of the biggest winners in Al will not be those the markets have crowned today. Buying a thematic fund, rather than a single stock means you are less likely to entirely miss the biggest winners.

When running the ruler over thematic funds, the fundamental fund characteristics that boost the chances of achieving long-term investment success, such as low fees, a seasoned management team, and a trusted parent organisation, still apply equally and should form the foundation of any evaluation. That said, the distinctive characteristics of thematic funds mean a more tailored approach to due diligence is required. One manager may build a high-conviction portfolio of stocks selected for their high growth potential, while another may track the same theme by building a broader portfolio of stocks based on their exposure to a theme and integrating other investment metrics such as quality screens into the portfolio-construction process, which will result in a strikingly different exposure.

Looking beyond a name to really understand how a fund targets its theme is even more crucial when it comes to Al. By glancing at a fund name it may not be straight forward to determine if the fund manager uses artificial intelligence to select stocks or if they are selecting stocks exposed to Al (or on the occasion where they do both).

The volatile return profiles of many thematic funds, coupled with low- or no-commission trading and the intra-day trading capabilities of thematic ETFs, can encourage the worst type of investor behaviour, and ultimately result in poor investment outcomes. Findings in our recent study, The Big Shortfall, show that on aggregate, poor investor buying and selling habits connected with thematic funds over the last five years have destroyed most of the returns provided by thematic funds. It goes to show, you can pick the right theme and right fund, but if you use them in the wrong way you can still end up empty handed.





Source: Morningstar Direct, Morningstar Global Thematic Research Database. 5-Year Total Returns, Investor Returns and Return Gap for Thematic and Non-Thematic Funds. Investor return is the asset-weighted return, adjusted for inflows/outflows. It shows the net impact of buying high and selling low. Data as of 30 June 2023. Domiciles included in this chart: Ireland, Luxembourg, United Kingdom, and the United States.

#### The Al Punchline

Artificial intelligence is an exciting theme and we expect a lot of market interest in 2024. One effective way to access the Al theme without paying huge valuation premiums is via second-derivative plays. These are not the chip makers or those that offer technology interfaces, but rather, those who can effectively embed Al into their workflow and drive new revenue growth opportunities. The principles of good investing still apply.



Since its original publication, this piece may have been edited to reflect the regulatory requirements of regions outside of the country it was originally published in.

#### About Morningstar, Inc.

Morningstar, Inc. is a leading provider of independent investment research in North America, Europe, Australia, and Asia. The company offers an extensive line of products and services for individual investors, financial advisors, asset managers, retirement plan providers and sponsors, and institutional investors in the private capital markets. Morningstar provides data and research insights on a wide range of investment offerings, including managed investment products, publicly listed companies, private capital markets, and real-time global market data. Morningstar also offers investment management services through its investment advisory subsidiaries, with approximately \$264 billion in assets under advisement and management as of Sept. 30, 2023. The Company operates through wholly- or majority-owned subsidiaries in 32 countries. For more information, visit <a href="https://www.morningstar.com/company">www.morningstar.com/company</a>. To learn more about the Morningstar Wealth brand, visit <a href="https://morningstar.com/Morningstar-Wealth-EMEA-Disclaimers">morningstar.com/Morningstar-Wealth-EMEA-Disclaimers</a>.

#### **About the Morningstar Investment Management Group**

Morningstar's Investment Management group is a leading provider of investment management and advisory services. Guided by seven investment principles, the group is committed to focusing on its mission to design portfolios that help investors reach their financial goals. The group's global investment management team works as one to apply a disciplined investment process to its strategies and portfolios, bringing together core capabilities in asset allocation, investment selection, and portfolio construction. This robust process integrates proprietary research and leading investment techniques.

In addition to advisory services, the group's investment professionals build and manage model portfolios for financial advisors in the United States, United Kingdom, Australia, and South Africa to create strategies that incorporate a wide variety of investment objectives.

Morningstar's Investment Management group includes, but is not limited to, Morningstar Investment Management LLC, Morningstar Investment Services LLC, Morningstar Investment Management Europe Ltd., Morningstar Investment Management Australia Ltd., Ibbotson Associates Japan, Inc., Morningstar Investment Management South Africa (PTY) LTD, and Morningstar Investment Consulting France all of which are subsidiaries of Morningstar, Inc. Advisory services listed are provided by one or more of these entities, which are authorized in the appropriate jurisdiction to provide such services.

### **Important Information**

The opinions, information, data, and analyses presented herein do not constitute investment advice; are provided as of the date written; and are subject to change without notice. Every effort has been made to ensure the accuracy of the information provided, but Morningstar makes no warranty, express or implied regarding such information. The information presented herein will be deemed to be superseded by any subsequent versions of this document. Except as otherwise required by law, Morningstar, Inc or its subsidiaries shall not be responsible for any trading decisions, damages or losses resulting from, or related to, the information, data, analyses or opinions or their use. Past performance is not a guide to future returns. The value of investments may go down as well as up and an investor may not get back the amount invested. Reference to any specific security is not a recommendation to buy or sell that security. There is no guarantee that a diversified portfolio will enhance overall returns or will outperform a non-diversified portfolio. Neither diversification nor asset allocation ensure a profit or guarantee against loss. It is important to note that investments in securities involve risk, including as a result of market and general economic conditions, and will not always be profitable. Indexes are unmanaged and not available for direct investment.

Please note that investments in securities are subject to market and other risks, and there is no assurance or guarantee that the intended investment objectives will be achieved. Past performance of a security may or may not continue in the future and is no indication of future performance. A security investment's return and an investor's principal value will fluctuate so that, when redeemed, an investor's shares may be worth more or less than their original cost. For investments in foreign markets there are further risks, generally based on exchange rate changes or changes in political and social conditions.

Morningstar's fund research and rating activities are undertaken by other entities within the wider Morningstar Group and not those entities mentioned below therefore are not regulated by the relevant authorities. There are information barriers with the Morningstar research entities and any identified conflicts are managed in accordance with internal policies.

Morningstar's fund research and rating activities are not undertaken by those entities mentioned below and as such, are not regulated by the relevant authorities. These activities are undertaken by other entities within the wider Morningstar Group. There are information barriers with the Morningstar research entities and any identified conflicts are managed in accordance with internal policies.

This Report may contain certain forward-looking statements. We use words such as "expects", "anticipates", "believes", "estimates", "forecasts", and similar expressions to identify forward-looking statements. Such forward-looking statements involve known and unknown



risks, uncertainties and other factors which may cause the actual results to differ materially and/or substantially from any future results, performance or achievements expressed or implied by those projected in the forward-looking statements for any reason.

The Report and its contents are not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would subject Morningstar or its subsidiaries or affiliates to any registration or licensing requirements in such jurisdiction.

**For Recipients in United Kingdom:** The Report is distributed by Morningstar Investment Management Europe Limited (FRN 449468) and Smart Investment Management Limited (FRN 627829), which are authorised and regulated by the Financial Conduct Authority to provide services to Professional clients. Registered Address: 1 Oliver's Yard, 55-71 City Road, London, EC1Y 1HQ.

**For Recipients in Europe:** The Report is distributed by Morningstar Investment Consulting France SAS, authorised and regulated by the French Autorité de contrôle prudentiel et de résolution (ACPR) as a financial investment adviser (CIB 15383). SAS with a capital of 2,895,985 euros - RCS Paris 441 812 674 - APE 7022Z. Registered office: 52 rue de la Victoire 75009 Paris.

**For Recipients in Dubai:** The Report is distributed by Morningstar Investment Management Europe Limited Dubai Representative Office which is regulated by the DFSA as a Representative Office (Reference Number F001981).

**For Recipients in South Africa:** The Report is distributed by Morningstar Investment Management South Africa (Pty) Limited, which is an authorized financial services provider (FSP 45679), regulated by the Financial Sector Conduct Authority

