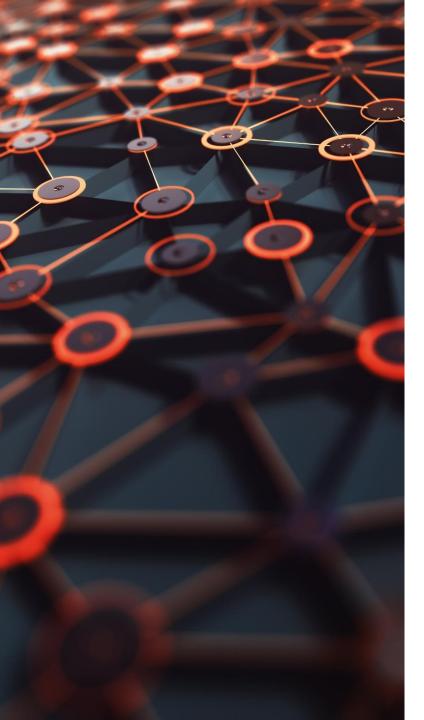


Investment implications of Generative AI

健康長久好生活	Allianz ()) Global Investors 安聯投資	Amundi ASSET MANAGEMENT 東方匯理 資產管理	
Fidelity 富達	First Sentier Investors 首源投資	FRANKLIN TEMPLETON®	Manulife Investment Management
Mercer	BINGIN FIXED INCOME	强 T.RowePrice 普徠仕	春康 Taikang Rel ge





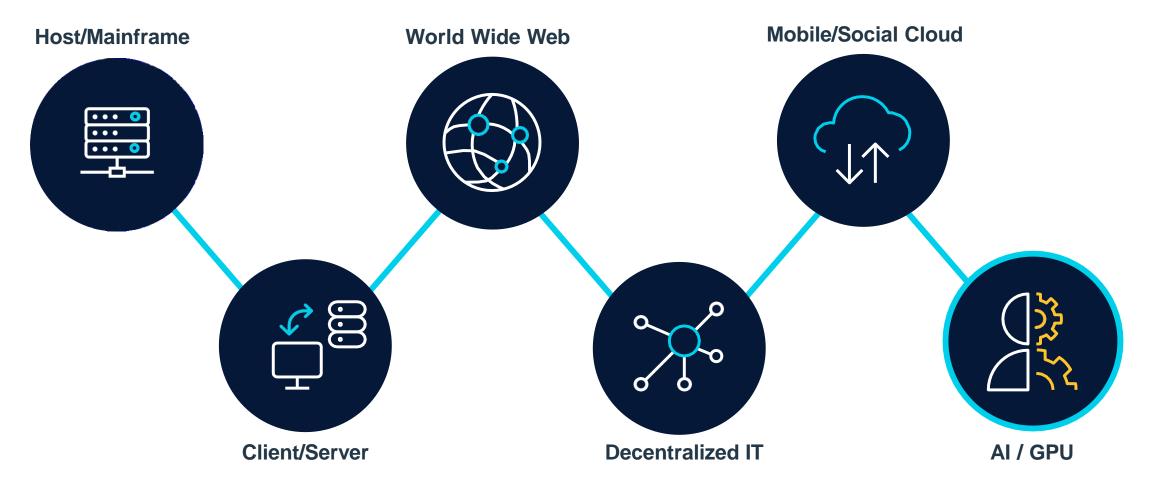
Investment Implications of Generative Artificial Intelligence (AI)

Rahul Ghosh, Product Specialist, Equity Division

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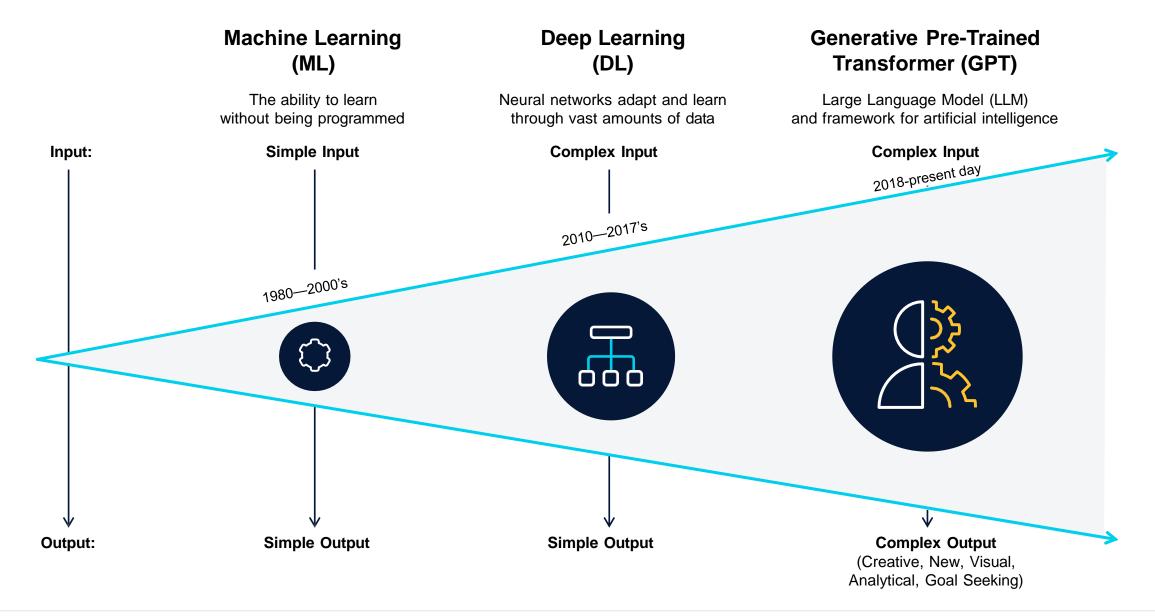
Tech Innovation Cycles

Information Technology Maturity Enables AI



Source: IBM, Impact 2014 Presentation via SlideShare. IT=information technology; AI=artificial intelligence; GPU=graphics processing unit.

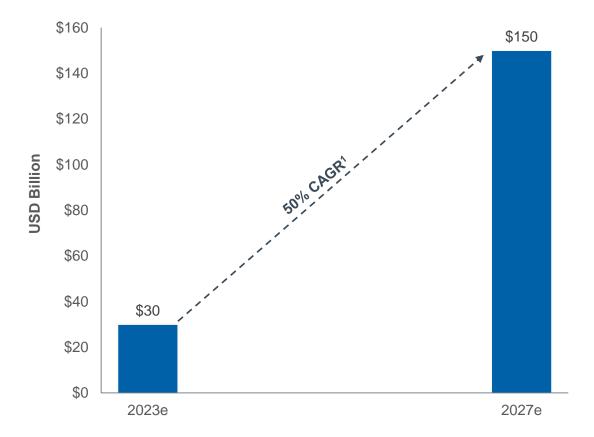
Generative AI is a breakthrough – Software writing software



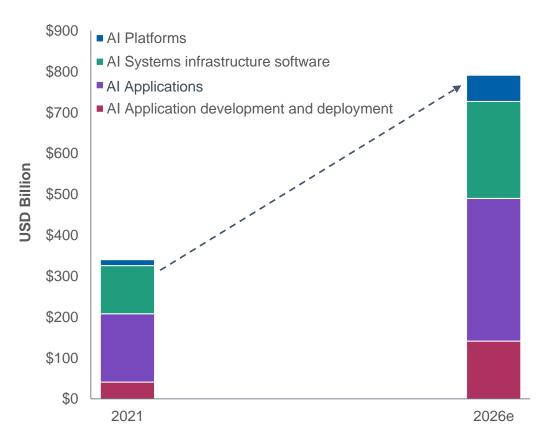
Rapidly Growing Markets

As of 30 June 2023

Al Chip Total Addressable Market



Worldwide AI Software Forecast— 2021–2026

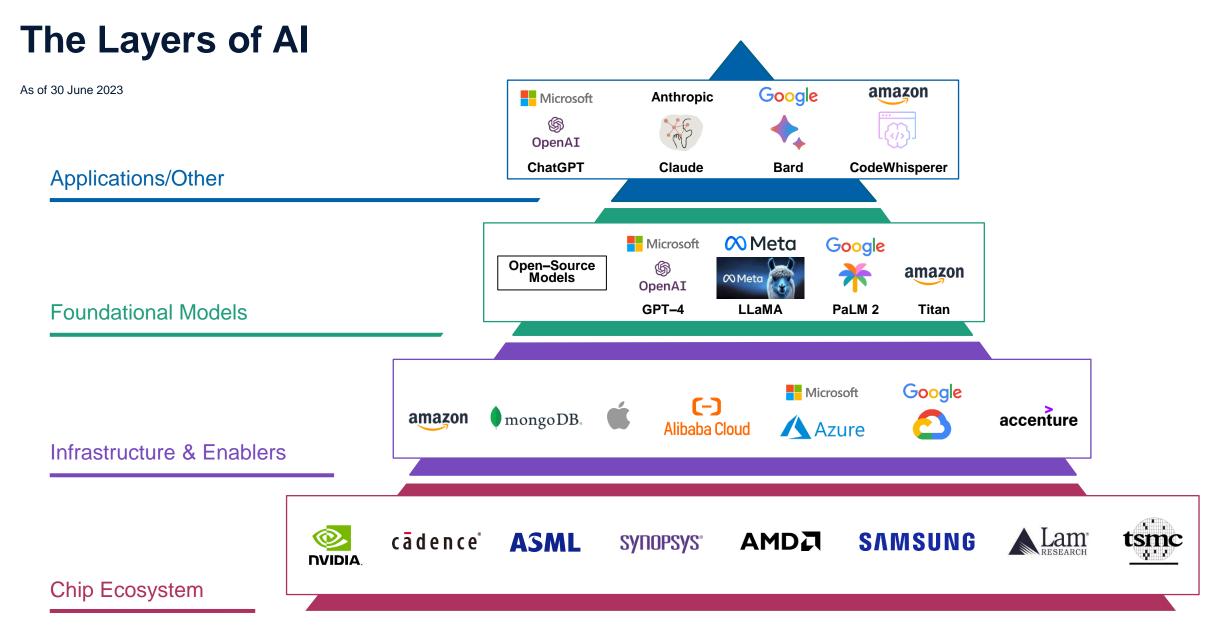


Needs for AI compute and software – driving exponential growth

There is no guarantee that any forecasts made will come to pass.

¹ Compound Annual Growth Rate.

Source: AI Chip Market—AMD Data Center and AI Technology Premier; Software Forecast—William Blair Research based on data from IDC; Worldwide Semiannual Artificial Intelligence Tracker, 2H21.

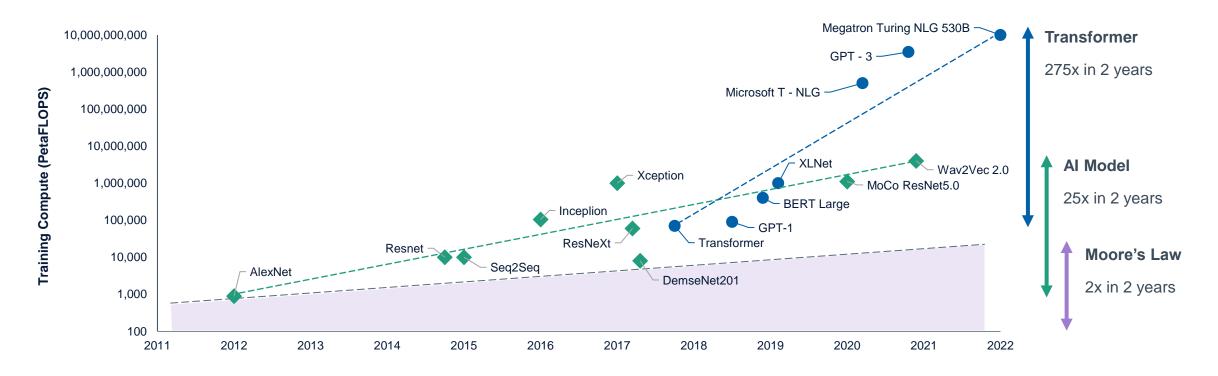


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AI Implications—Increased Capital Intensity

As of 31 December 2022

Large Language Model Demand Outpacing Moore's Law



The current growth rate of computing power far exceeds Moore's Law, supercharging demand and necessitating innovation.

Source: NVIDIA Ian Buck Statement (2018), Huatai Research.

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What It Takes To Win in AI

As of 31 August 2023

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Distribution



Huge compute needs

- Data •• All data not equal ٠ Public vs proprietary data High silicon intensity requires a lot of capital ٠ Access to low cost data ٠ Do returns justify capital spend Internet / Mobile / Enterprise ٠ **Talent** Application first approach Concentrated in very few companies ٠ Best talent follows from the other three Open Al's route to market? •
- The views contained herein are those of the Investment Professional as of the date of presentation and are subject to change without notice; these views may differ from those of other T. Rowe Price associates. It is not intended to be investment advice or a recommendation to take any particular investment action.

AI Benefits Platform Companies

As of 31 August 2023



Technology Platforms: Compute Resources + Talent + Data + Distribution = **Potential Success**



Al tool within Office 365 will make tasks easier with CoPilot Model

Integrating Al within Adobe's creative software and large install base while managing digital rights Al enhanced advertising and using ecosystem data to overcome app tracking transparency

Amazon provides a robust AI platform and machine learning services

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Investment Framework

Understanding technology, anticipating changes, pay appropriate prices



Repeatable investment framework that works to evaluate new and emerging technologies like Artificial Intelligence

Where are we seeing potential AI beneficiaries?

As of 31 August 2023

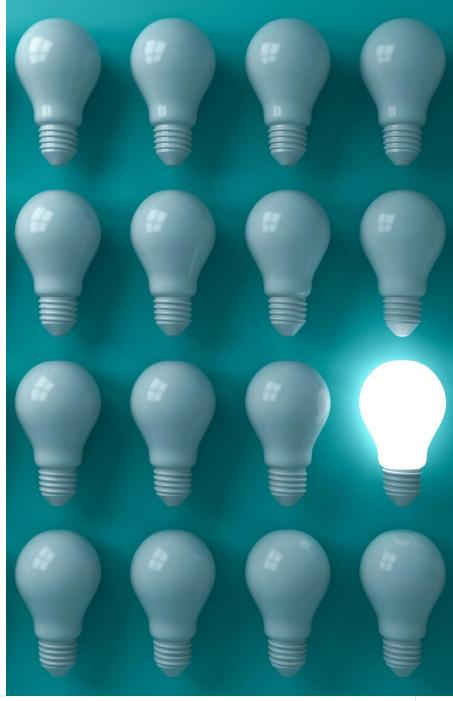
GPU Can process many pieces of data simultaneously	EDA Designs Semiconductor chips	Semi Cap equipment Front end Semi cap equipment wafer processing	
	Infrastructure Software and data analytics management	IT Services IT applications bring AI to the enterprise	Technology Platforms Access to resources, data a distribution

For illustrative purposes only. It is not intended to be investment advice or a recommendation to take any particular investment action. EDA=exploratory data analysis.

Summary

- AI requires a robust combination of compute, talent, data, and customers benefitting existing platform companies.
- Generative AI is incredibly semiconductor intensive due to its immense parallel processing requirements. One of the best ways to take advantage of Generative AI in this mega-trend has been via the picks and shovels, and other parts of the infrastructure layer.
- Al is poised to accelerate the death of Moore's Law, with GPUs leading the charge
- AI has been and may continue to be cyclical, yet its S-curve trajectory has often been underestimated by the market
- While we are cognizant of a mini bubble potentially forming, our job is to navigate this rapidly changing environment responsibly via our investment framework.
- Our outlook on technology continues to be positive as most stocks in our investment universe have accelerating organic growth and operating margin expansion as we look into 2024.

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Thank You

