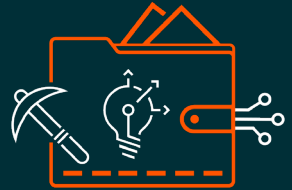




Investing in the Future

The AI Ecosystem is More Than Meets the Eye



For more than a decade, our mission has been empowering investors with unexplored and intelligent solutions.



Headquartered in New York, with Global X ETFs listed throughout Europe, Asia, Canada, Latin America, and Australia.



Global X ETFs is a fully-owned subsidiary of Mirae Asset Financial Group, a global industry leader with 58 offices and over 12,000 employees worldwide. Founded in 1997 as one of Asia's pioneering fund management companies, the Group now oversees **US\$606bn of total AUM** that includes real ETFs, Managed funds, real estate, insurance, private equity, and venture capital.²

~US\$91bn

in AUM across more than 400 ETF Strategies¹

Primary Listings by Office



United States
27 ETF Listings



Europe
37 ETF Listings



Australia
41 ETF Listings



Latin America
24 ETF Listings
(Brazil, Colombia)



Japan
47 ETF Listings



Hong Kong
26 ETF Listings



Canada
125 ETF Listings

¹ As of September 2024. ² As of June 2024

THEMATIC GROWTH		COMMODITIES		INCOME		INTERNATIONAL ACCESS		CORE		DIGITAL ACCESS		LEVERAGED & INVERSE	
DISRUPTIVE TECHNOLOGY		MINERS		COVERED CALL		REGIONAL		CORE		DIGITAL ASSETS		LEVERAGED & INVERSE	
ACDC	Global X Battery Tech & Lithium ETF	ATOM	Global X Uranium ETF	AYLD	Global X S&P/ASX 200 Covered Call ETF	ESTX	Global X EURO STOXX 50 [®] ETF	GARP	Global X S&P World ex Australia GARP ETF	EBTC	Global X 21Shares Bitcoin ETF	LNAS	Global X Ultra Long Nasdaq 100 Complex ETF
BUGG	Global X Cybersecurity ETF	GMTL	Global X Green Metal Miners ETF	QYLD	Global X Nasdaq 100 Covered Call ETF	SINGLE COUNTRY		U100	Global X US 100 ETF	EETH	Global X 21Shares Ethereum ETF	SNAS	Global X Ultra Short Nasdaq 100 Complex ETF
DTEC	Global X Defence Tech ETF	WIRE	Global X Copper Miners ETF	UYLD	Global X S&P 500 Covered Call ETF	NDIA	Global X India Nifty 50 ETF	OZXX	Global X Australia ex Financials & Resources ETF				
FTEC	Global X Fintech & Blockchain ETF	PHYSICAL		DIVIDEND									
GXAI	Global X Artificial Intelligence ETF	ETPMAG	Global X Physical Silver	ZYAU	Global X S&P/ASX 200 High Dividend ETF								
ROBO	Global X ROBO Global Robotics & Automation ETF	ETPMPD	Global X Physical Palladium	ZYUS	Global X S&P 500 High Yield Low Volatility ETF								
SEMI	Global Semiconductor ETF	ETPMPM	Global X Physical Precious Metals Basket	FIXED INCOME									
TECH	Global X Morningstar Global Technology ETF	ETPMPT	Global X Physical Platinum	BANK	Global X Australian Bank Credit ETF								
MULTI-THEME		GOLD	Global X Physical Gold	USHY	Global X USD High Yield Bond ETF (Currency Hedged)								
FANG	Global X FANG+ ETF	GXLD	Global X Gold Bullion ETF	USIG	Global X USD Corporate Bond ETF (Currency Hedged)								
FHNG	Global X FANG+ (Currency Hedged) ETF	SYNTHETIC		USTB	Global X US Treasury Bond ETF (Currency Hedged)								
PEOPLE & DEMOGRAPHICS		BCOM	Global X Bloomberg Commodity Complex ETF										
CURE	Global X S&P Biotech ETF												
PHYSICAL ENVIRONMENT & INFRASTRUCTURE													
HGEN	Global X Hydrogen ETF												
PAVE	Global X US Infrastructure Development ETF												



Jessica Leung
Portfolio Manager

Jessica joined Global X in 2023 and is responsible for fund management, reconciliation and reporting. Jessica was previously an Assistant Portfolio Manager at BetaShares and has held Assistant Portfolio Manager and Investment Risk Management roles at Macquarie Group. Jessica holds a Bachelor of Applied Finance and Bachelor of Actuarial Studies from Macquarie University and is a CFA Charterholder.

Discussion Topics

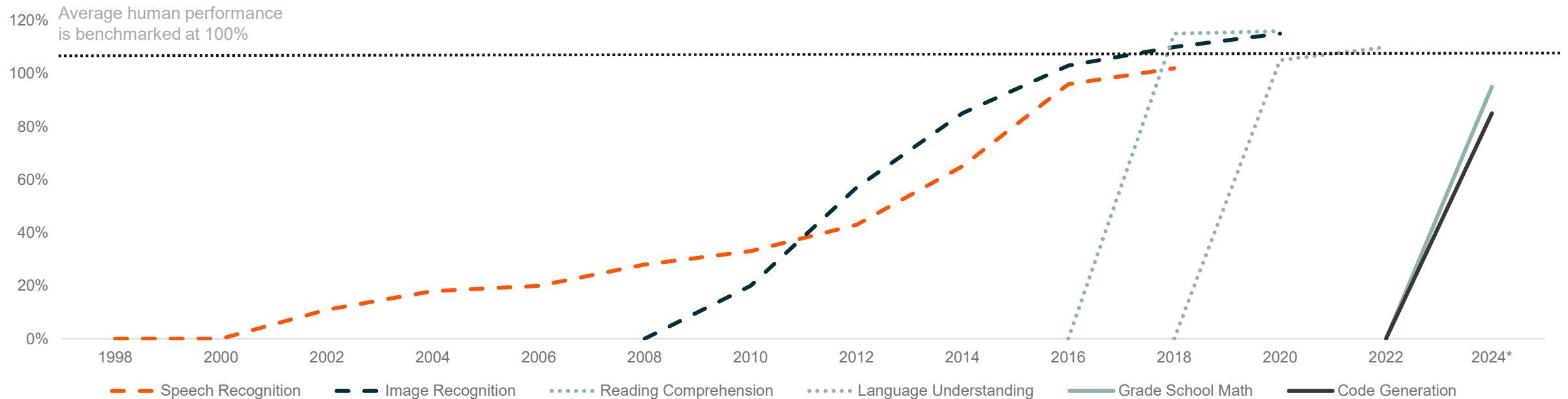
- 1. The AI Value Chain: Beyond the Surface**
- 2. Semiconductors: The Foundation of Technological Advancements**
- 3. AI and Cybersecurity: Navigating New Threats in a Digitised World**
- 4. Fueling the AI Revolution: Uranium's Role in Powering Progress**

Artificial Intelligence: Rapid Advancements from Increased Performance and Efficiency

Over the past 20 years, AI development has steadily progressed, with recent advancements accelerating rapidly. Improvements in computing power and efficiency have driven costs down, enabling broader applications and innovative solutions.

AI Performance and Efficiency: Accelerated Growth and Expanding Applications

AI Performance on Benchmarks, Relative to Human Performance



* Forecast

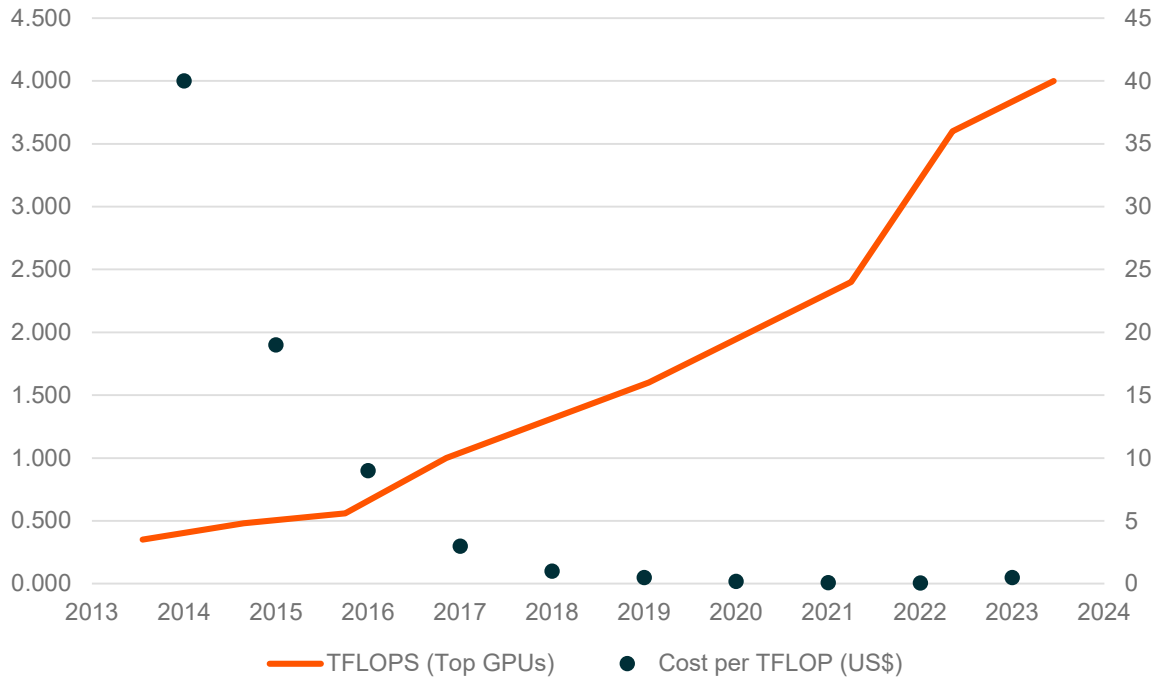
Note: For each benchmark, the maximally performing baseline reported in the benchmark paper is taken as the “starting point”, which is set at 0%. Human performance is set at 100%.

Sources: Kiela, Thrus, Ethayarajh, & Singh, 2023; Henshall, 2023

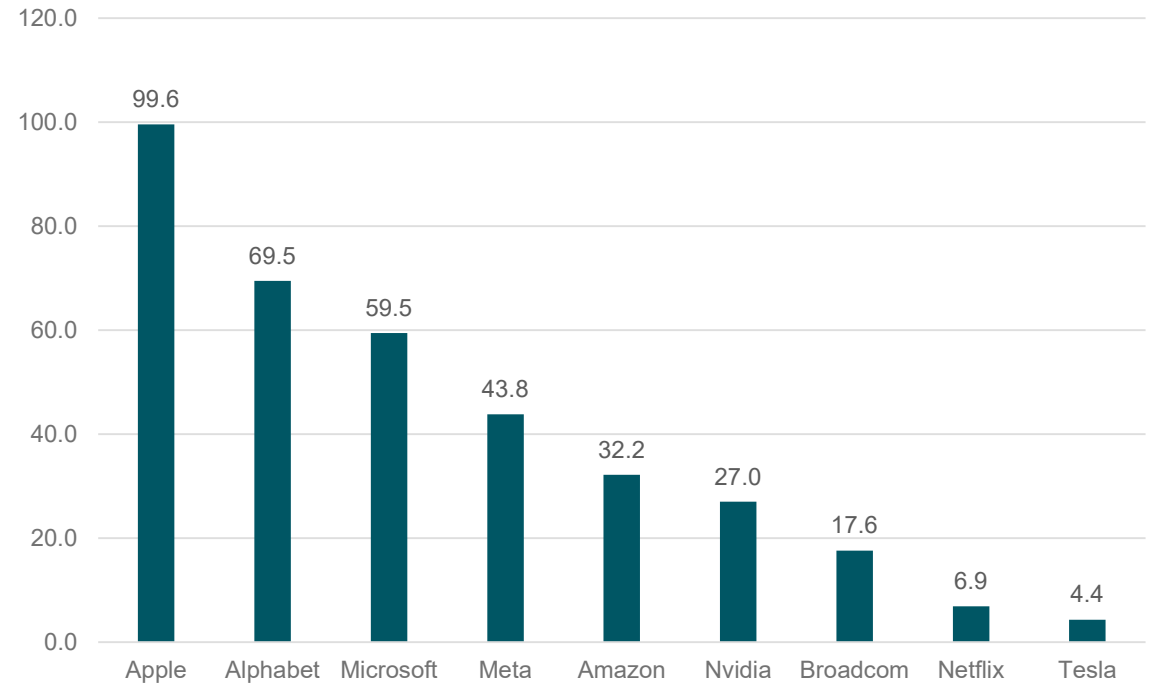
AI's Exponential Growth: Cost Efficiency and Financial Backing

Recent advancements in AI have led to a rapid increase in computing power and significant cost reductions, enabling more applications. Key innovative companies are well-funded to drive future developments.

Computing rates have increased while costs have come down



Key innovative companies generate >US\$360bn in FCF annually¹

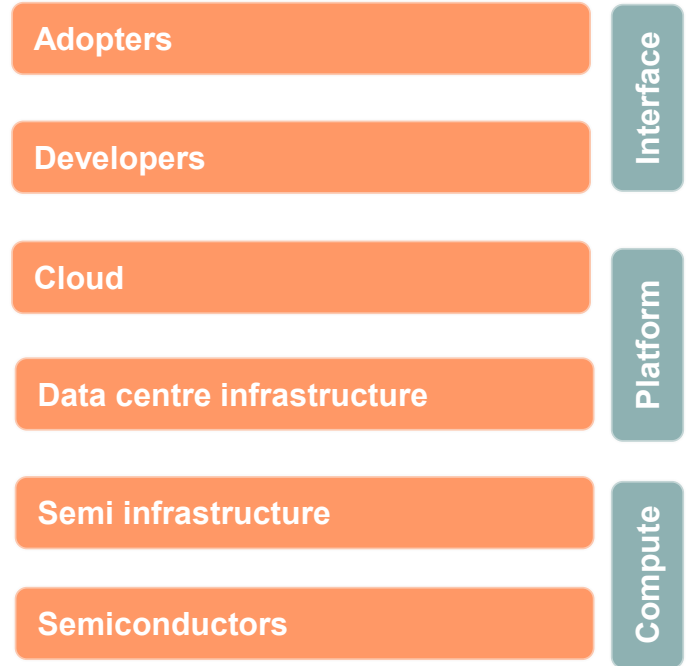
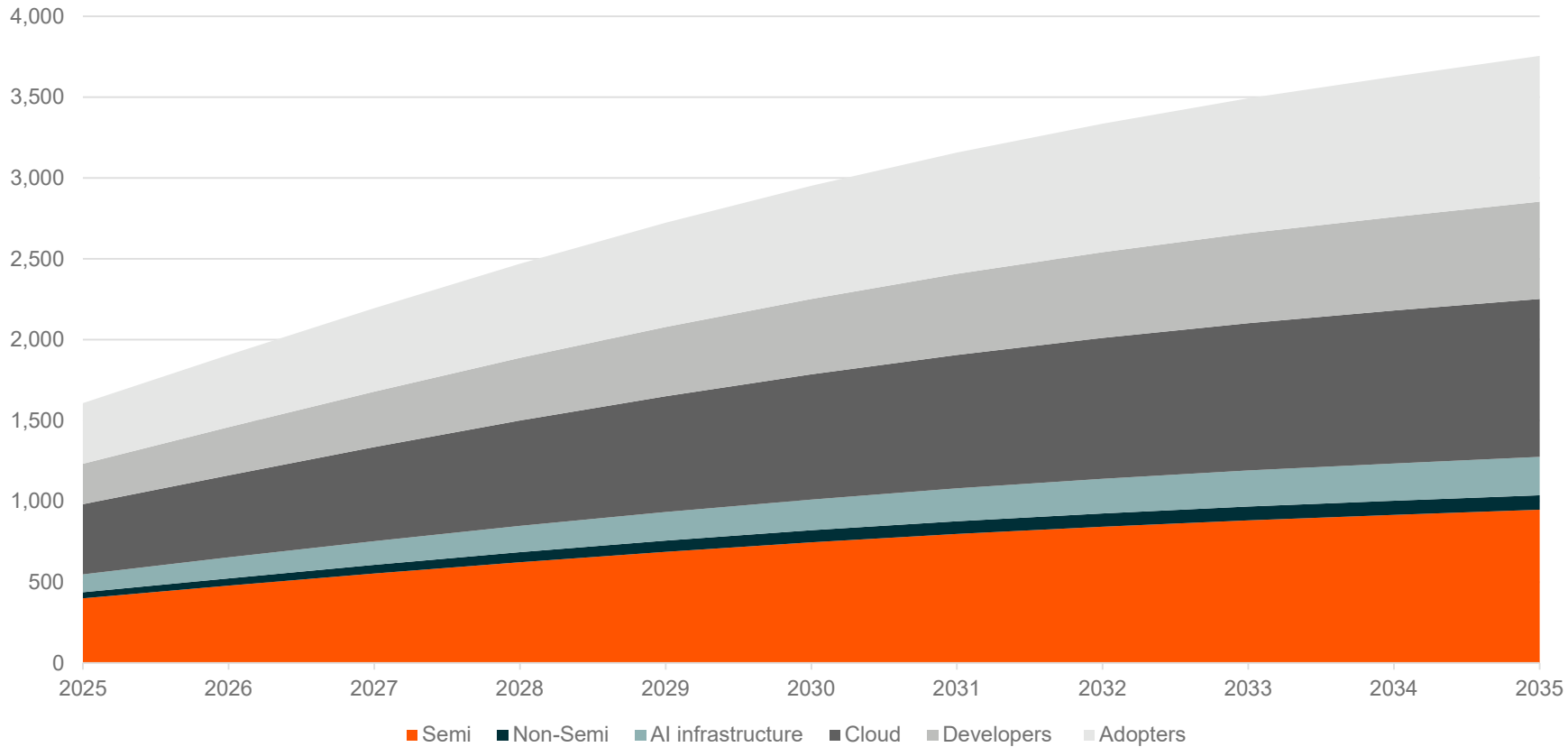


Source: LHS – Epoch AI, TopCPU.net, MIT, Chips and Cheese. RHS: Company data for last financial year

¹FCF = free cash flow in US\$bn

Expansiveness of AI Value Chain

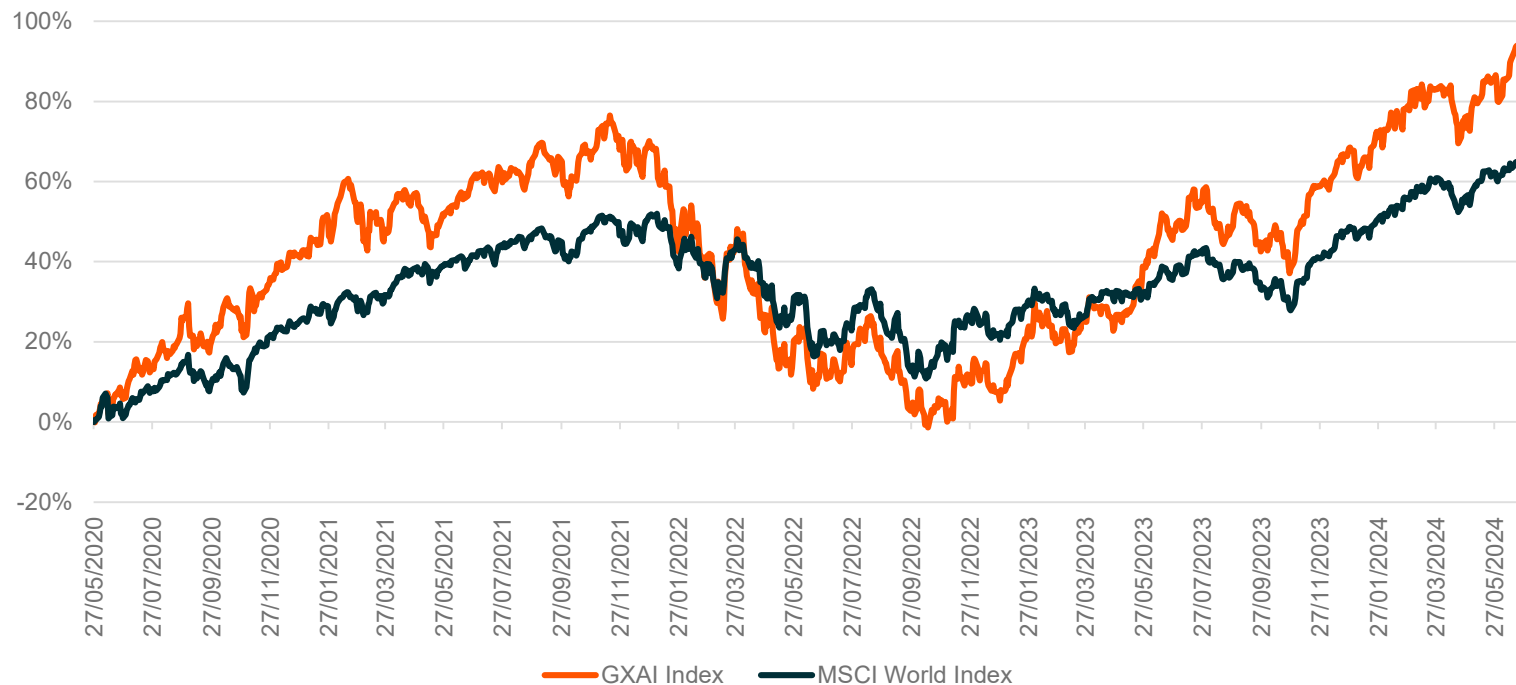
AI Value Chain Market Size (US\$ bn)



Global X ETFs based on Bloomberg data. Accurate as of 25 June 2024

GXAI | Fund Information

Price Performance of GXAI Index



Past performance is not a reliable indicator of future performance.

Total Returns (AUD)	1 Year	3 Years	5 Years	Year-to-date
GXAI Index	31.2%	38.0%	136.6%	17.4%
MSCI World	24.6%	42.7%	87.3%	15.6%

Data based on Bloomberg as of 25 June 2024

Global X Artificial Intelligence ETF (GXAI)

ASX Code	GXAI
MER	0.57% p.a.
# of Holdings	85
Distribution Freq.	Semi-annually
Rebalance Freq.	Semi-annually
Benchmark Index	Indxx Artificial Intelligence & Big Data Index

The Global X Artificial Intelligence ETF seeks to invest in companies that potentially stand to benefit from the further development and utilisation of artificial intelligence (AI) technology in their products and services, as well as in companies that provide hardware facilitating the use of AI for the analysis of big data.

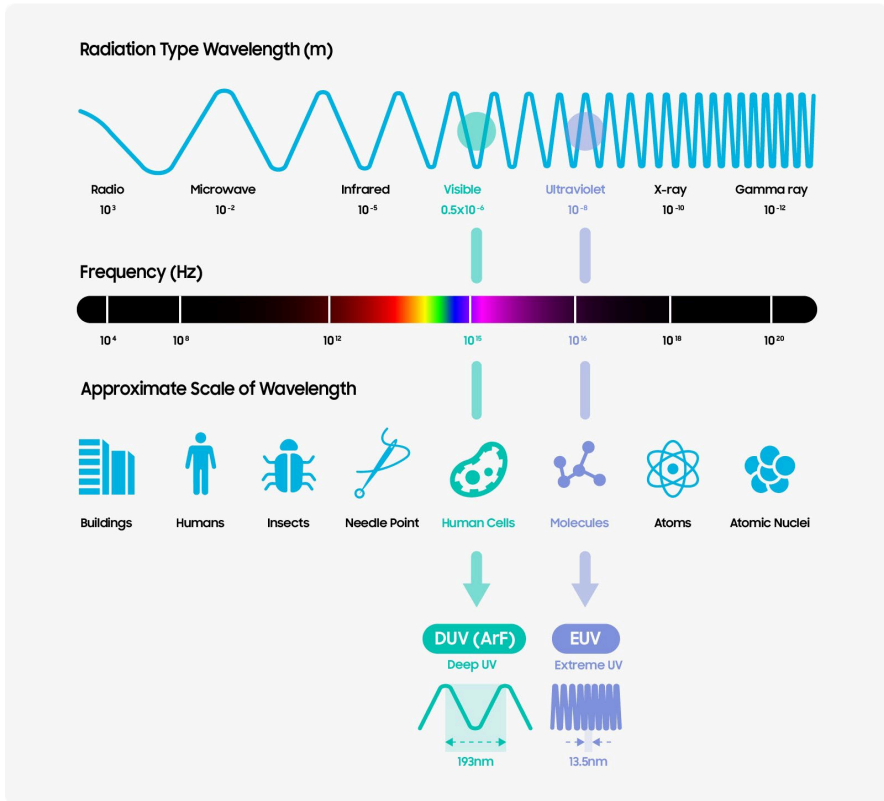
Discussion Topics

1. The AI Value Chain: Beyond the Surface
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4. Fueling the AI Revolution: Uranium's Role in Powering Progress

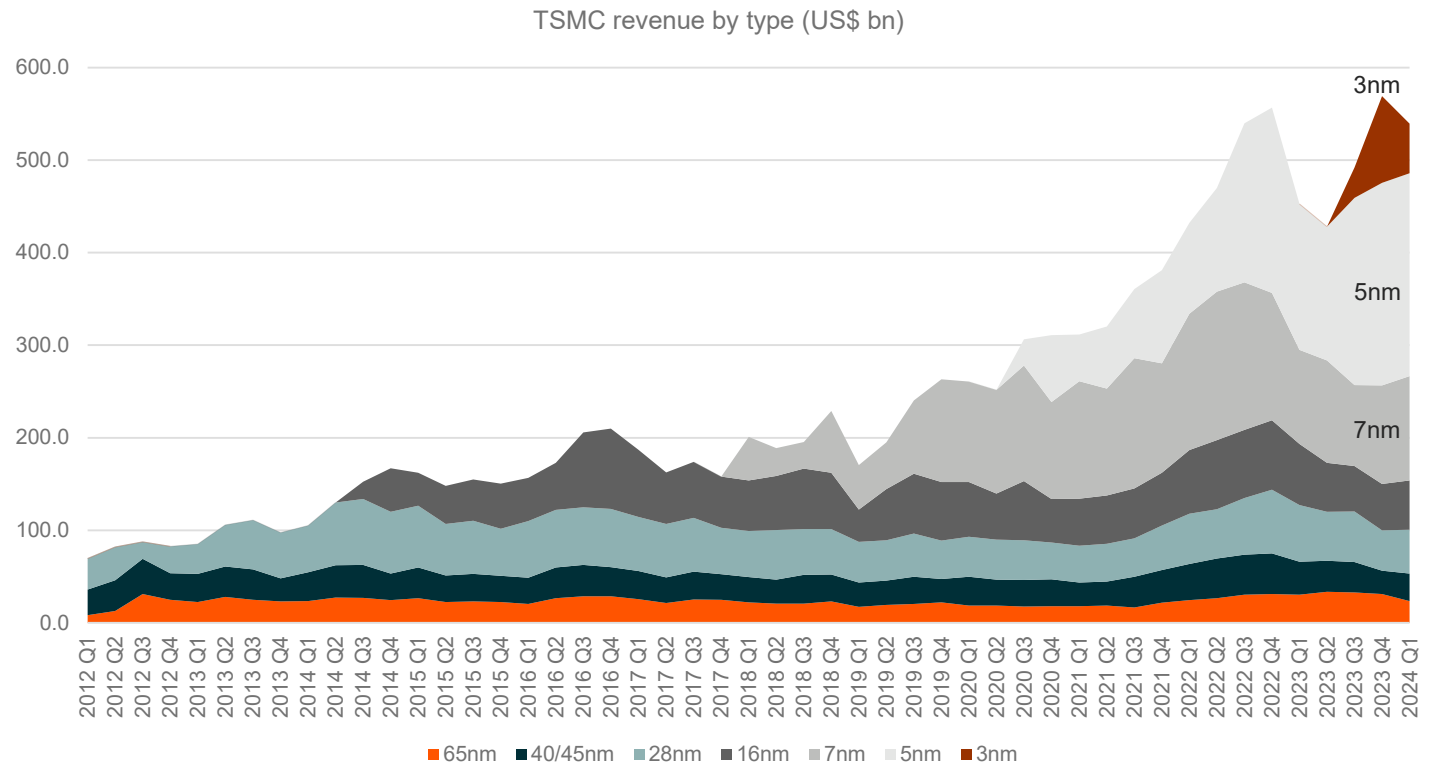
Semiconductor: Revolution Driven By EUV Lithography's Advancement

EUV lithography has transformed semiconductor manufacturing, enabling the creation of advanced 7nm, 5nm, and 3nm processes. This breakthrough technology drives significant growth and innovation in the industry.

EUVL has been a major advancement



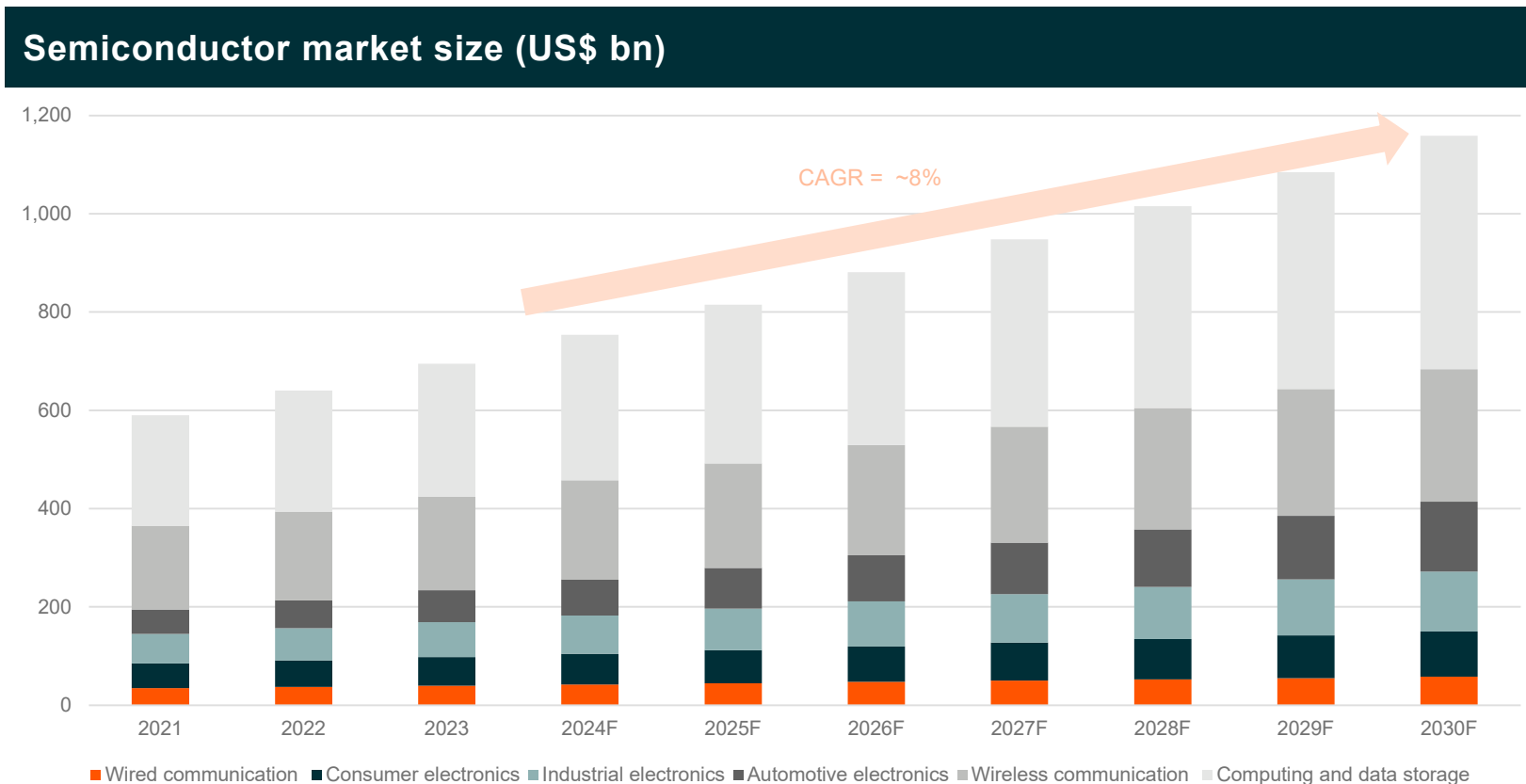
EUVL technology has substantially boosted the industry



Source: Samsung graphics. Company data.

Semiconductor: Multiple industries driving demand

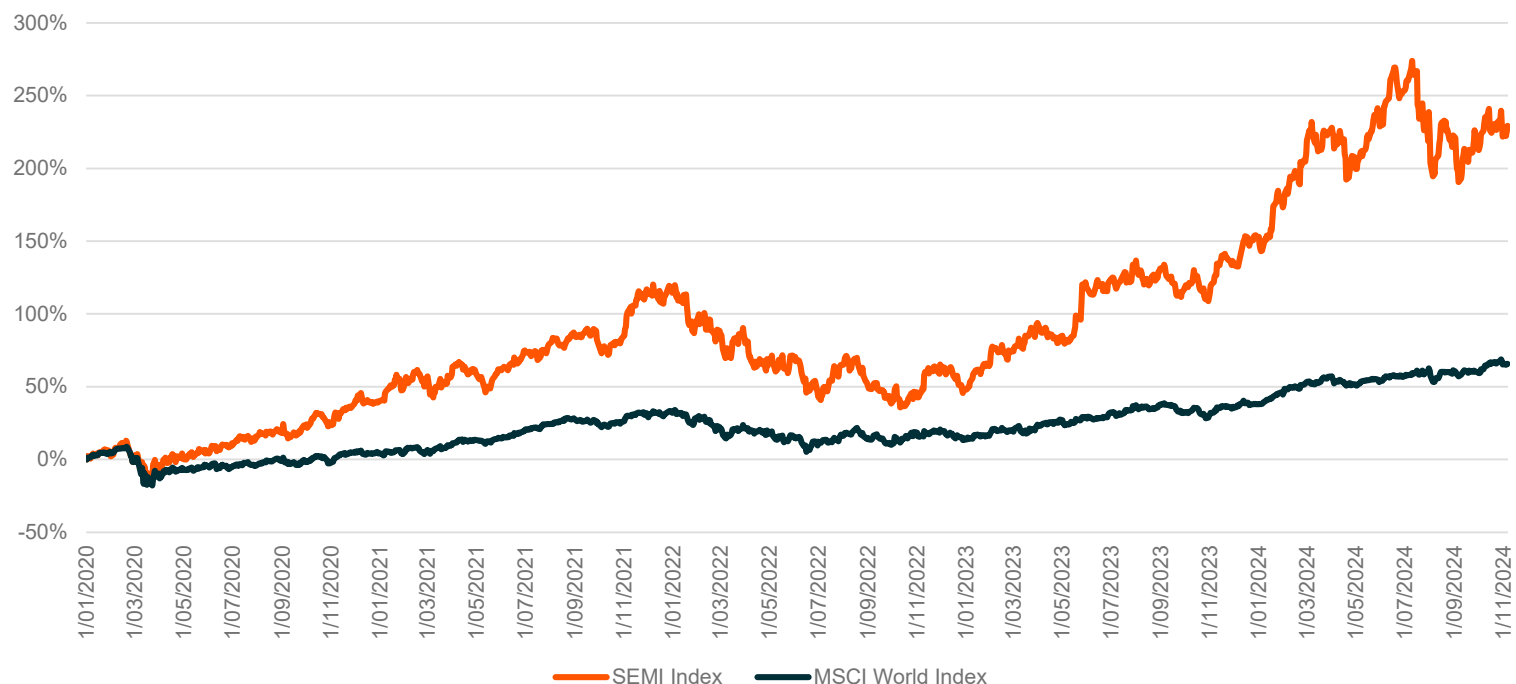
Contrary to conventional belief, the semiconductor industry exhibits sustained growth, defying cyclical trends, driven by expanding applications across industries, offering investment opportunities



Bloomberg data as of 25 June 2024

SEMI | Fund Information

Price Performance of SEMI Index



Past performance is not a reliable indicator of future performance

Total Returns (AUD)	1 Year	3 Years	5 Years	Year-to-date
SEMI Index	47.2%	61.3%	383.2%	28.3%
MSCI World	28.2%	35.6%	123.5%	22.0%

Data based on Bloomberg as of 6 November 2024

Global X Semiconductor ETF

ASX Code	SEMI
MER	0.45% p.a.
# of Holdings	30
Distribution Freq.	Semi-Annually
Rebalance Freq.	Quarterly
Benchmark Index	Solactive Global Semiconductor 30 Index

The Global X Semiconductor ETF (SEMI) seeks to invest in companies that could benefit from the increasing adoption of tech-enabled devices that rely on semiconductors. This includes the development and manufacturing of semiconductors, with a geographically unconstrained approach.

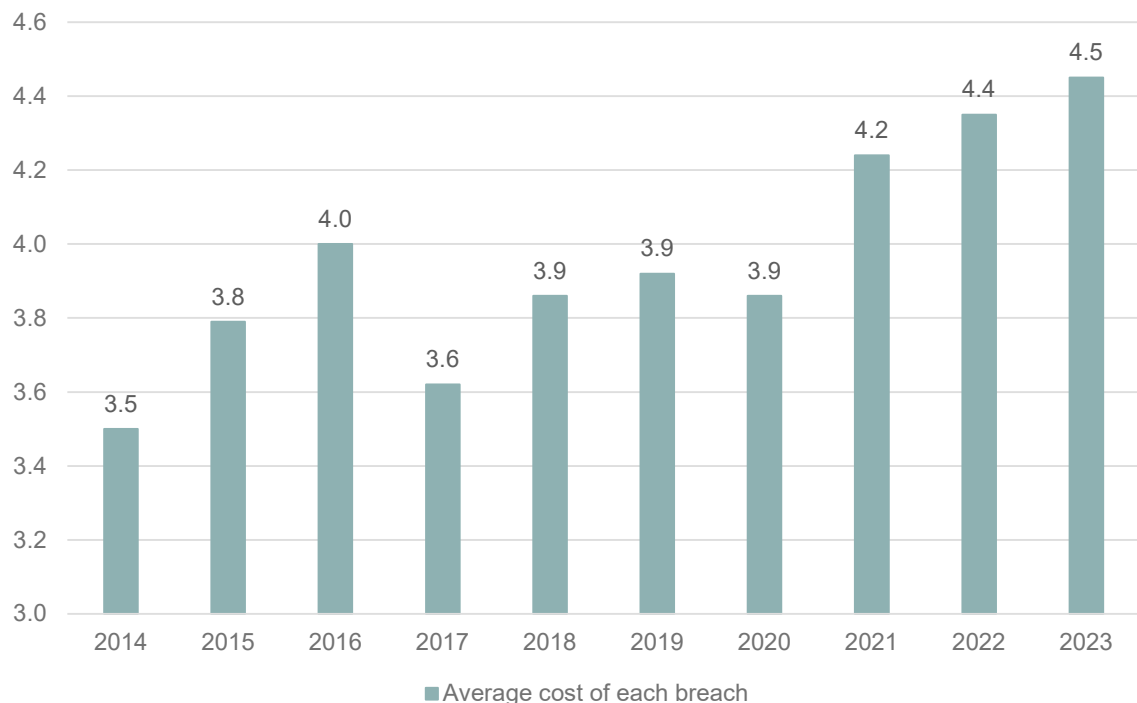
Discussion Topics

1. The AI Value Chain: Beyond the Surface
2. Semiconductors: The Foundation of Technological Advancements
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4. Fueling the AI Revolution: Uranium's Role in Powering Progress

Cybersecurity: The Thousandth Papercut

Awareness of cyber threats is rising, attacks and costs are up, and new regulations are in place. The cumulative effect is driving the cybersecurity sector to a tipping point.

Average cost of each data breach (US\$ mn)



3 of the top 10 cybersecurity attacks (by amount) occurred in the past 3 years

Event	Date	Estimated Financial Damage (US)	Details
Yahoo Data Breach	2013-2014	\$3 billion	Largest data breach in history, affecting 3 billion user accounts.
UnitedHealth Group Cyberattack	2024	\$1.5 billion	Massive breach impacting patient information.
Equifax Data Breach	2017	\$700 million	Personal data of 147 million people exposed, including Social Security numbers.
Clorox Data Breach	2023	\$356 million	Significant disruptions, including order processing delays and product shortages.
T-Mobile Data Breach	2022	\$350 million	Personal data of 77 million current and former customers exposed.
Target Data Breach	2013	\$292 million	Data on 40 million credit and debit cards stolen.
British Airways	2018	\$230 million	Personal and payment data of 380,000 customers compromised.
Home Depot Data Breach	2014	\$179 million	56 million payment card details stolen.
Sony PlayStation Network	2011	\$171 million	Breach affecting 77 million accounts.
Heartland Payment Systems	2008	\$148 million	Data breach affecting 100 million credit and debit card transactions.

Sources: LHS Chart – IBM. RHS Chart – Global X ETFs

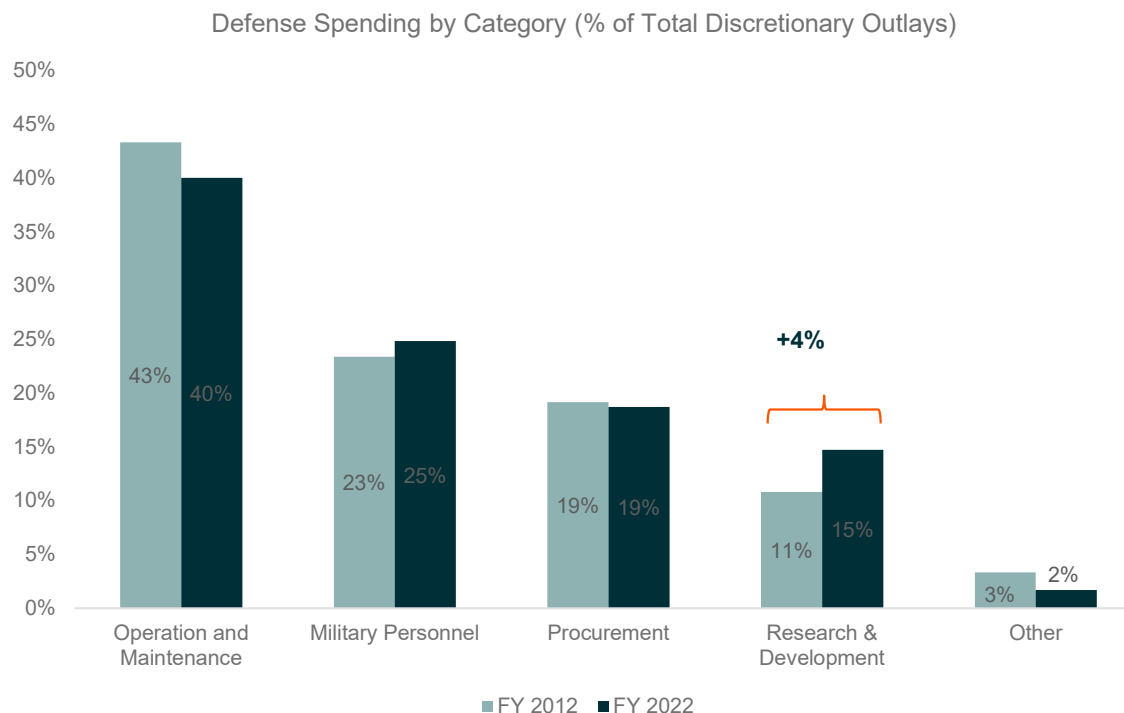
Cybersecurity: Awareness, Attacks, and Action

As cybersecurity threats escalate, investments in AI, Zero Trust, and cloud security are complemented by rising defence spending, particularly in R&D, to secure digital and national resilience.

Advanced Cyber Defences Strengthen Against Rising Threats

Advancement	Description	Impact
AI & Machine Learning	Enables real-time threat detection and automated responses.	Faster, more accurate threat detection and scalable defences.
Zero Trust Architecture	Requires continuous verification for every user and device.	Reduces internal breach risks and enhances data protection.
Cloud Security	Secures cloud environments and manages distributed access.	Essential for safe cloud adoption and remote work.
Advanced Encryption	New encryption methods and quantum-resistant cryptography.	Protects data integrity against future threats.
Automated Response Systems	Detects and isolates threats with minimal human input.	Cuts response times and limits breach damage.

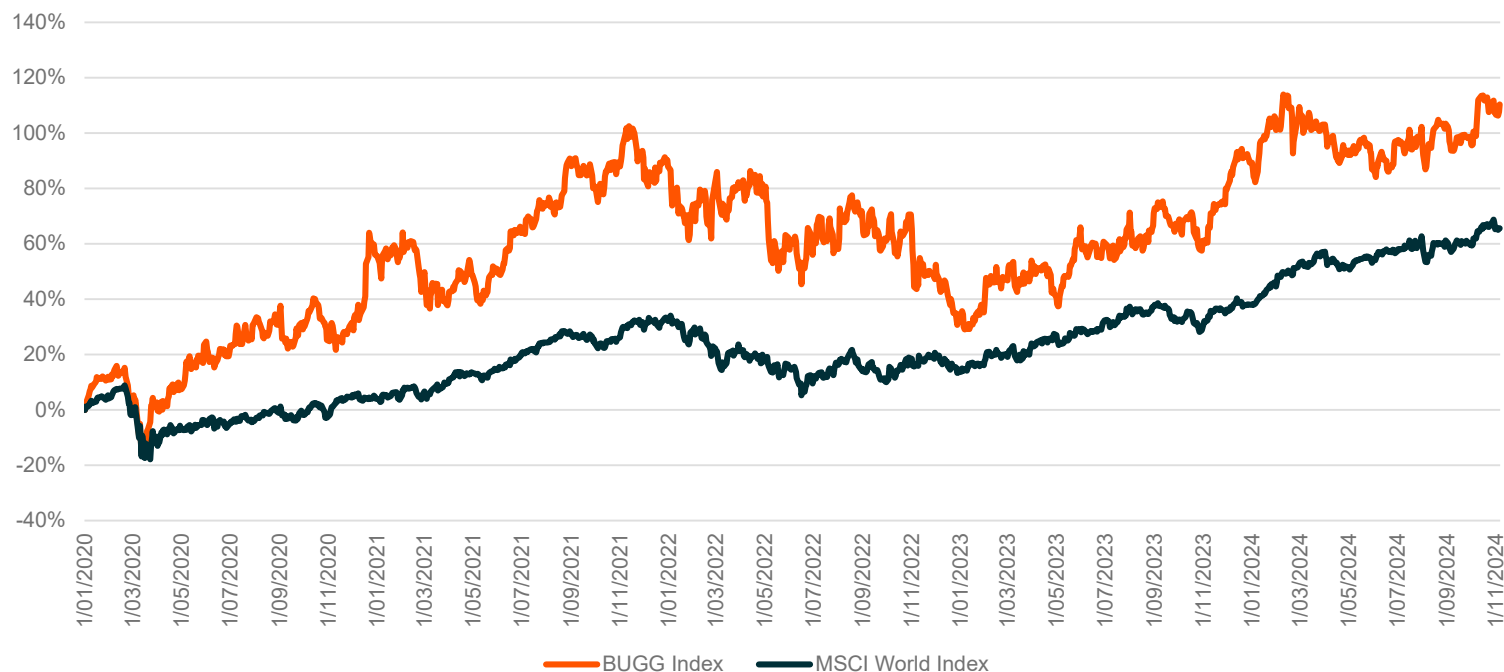
Defence Budgets Prioritise R&D to Counter Cyber Risks



LHS table: Global X ETFs. RHS chart: US Department of Defense.

BUGG | Fund Information

Price Performance of BUGG Index



Past performance is not a reliable indicator of future performance

Total Returns (AUD)	1 Year	3 Years	Inception	Year-to-date
BUGG Index	28.5%	5.5%	121.1%	9.6%
MSCI World	28.2%	27.4%	93.4%	22.0%

Data based on Bloomberg as of 10 November 2024

Global X Cybersecurity ETF

ASX Code	BUGG
MER	0.47% p.a.
# of Holdings	24
Distribution Freq.	Semi-annually
Rebalance Freq.	Semi-annually
Benchmark Index	Indxx Cybersecurity Index

The Global X Cybersecurity ETF seeks to invest in companies that stand to benefit from the increased adoption of cybersecurity technology, particularly those whose principal business is in the development and management of security protocols preventing intrusion and attacks on systems, networks, applications, computers, and mobile devices.

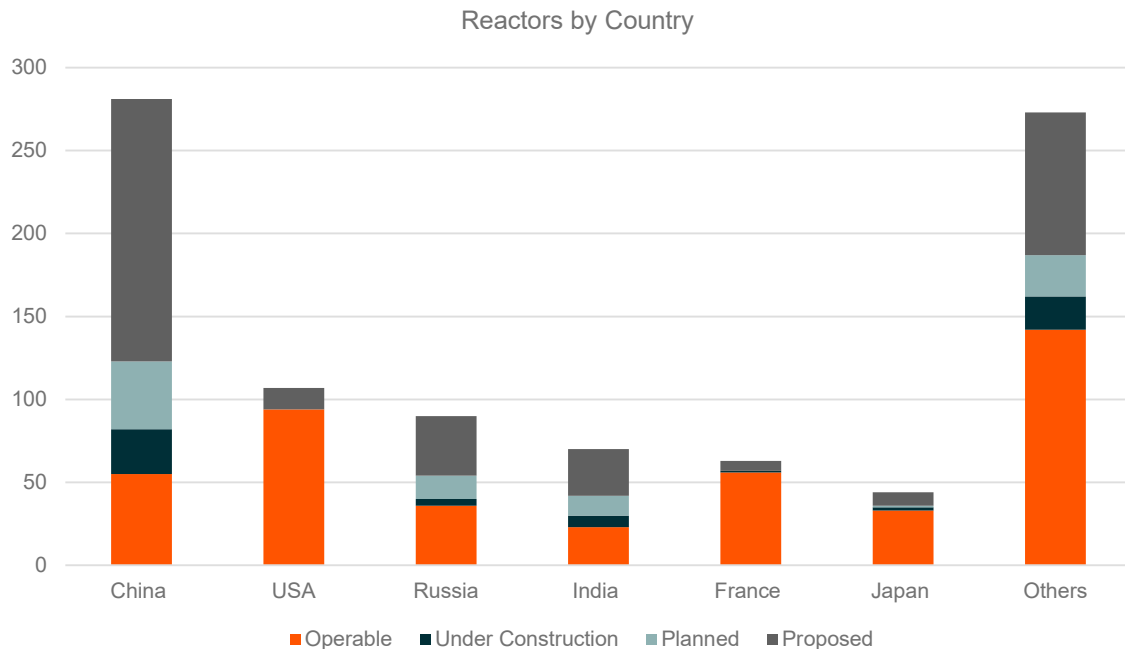
Discussion Topics

1. **The AI Value Chain: Beyond the Surface**
2. **Semiconductors: The Foundation of Technological Advancements**
3. **AI and Cybersecurity: Navigating New Threats in a Digitised World**
4. **Fueling the AI Revolution: Uranium's Role in Powering Progress**

Uranium: The Market Sentiment for Nuclear Power is Changing

Following COP28's renewed commitment to nuclear energy, countries are now aiming to triple nuclear capacity by 2050. Global demand remains robust, particularly with China leading expansion efforts. Increased regulatory support further signals a transformative shift in the energy landscape towards sustainable, large-scale nuclear solutions.

China Leads the Charge in Global Nuclear Reactor Growth



Source: Global X ETFs illustrations, with data derived from World Nuclear Association, World Nuclear Power Reactors & Uranium Requirements, as of April 2024 and March 2022.

Reactor Development Shows Renewed Nuclear Commitment

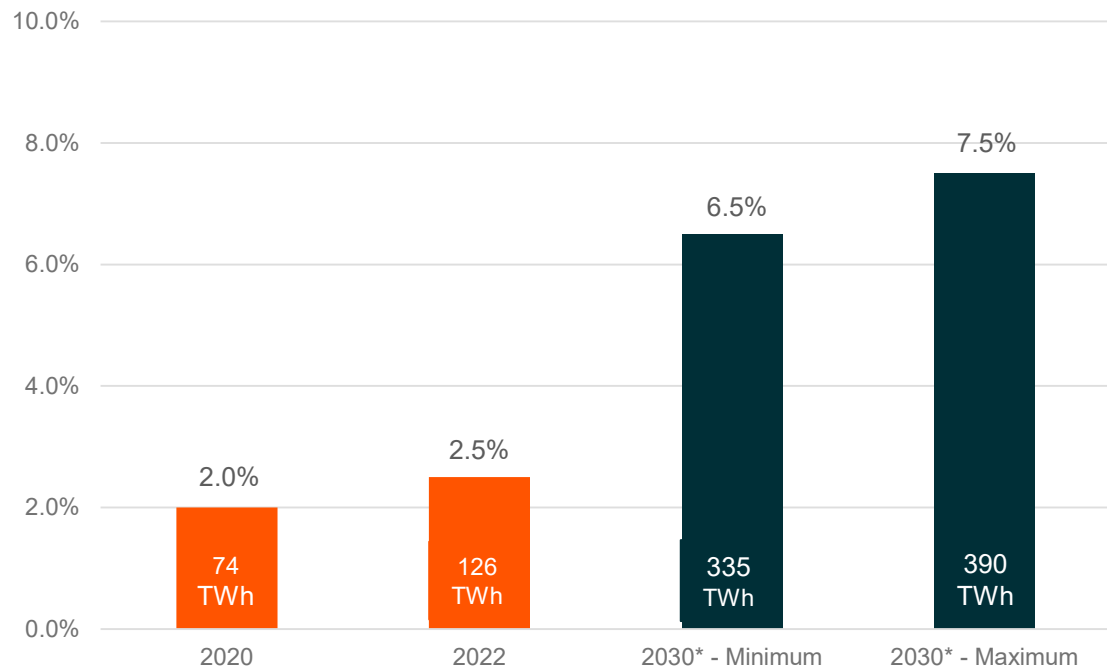
	OPERABLE	UNDER CONSTRUCTION	PLANNED	PROPOSED
As of April -24	440	60	92	343
As of March -22	439	56	96	325
Change April-24 vs March-22	+1	+4	-4	+18

Source: Energy.gov, 2023; 2.Bloomberg,2023; 3.World Nuclear News, 2024; 4.Bloomberg, 2023.

Uranium: Meeting Data Demands with Next-Gen Energy Solutions

As AI-driven data demands surge, innovative energy solutions like SMRs are set to address growing power needs with flexibility and efficiency.

Rising Energy Demand: Data Centres Drive U.S. Electricity Consumption



Sources: Global X ETFs with information derived from: Barrons. 14 March 2024. *How AI Is Sparking a Change in Power.*

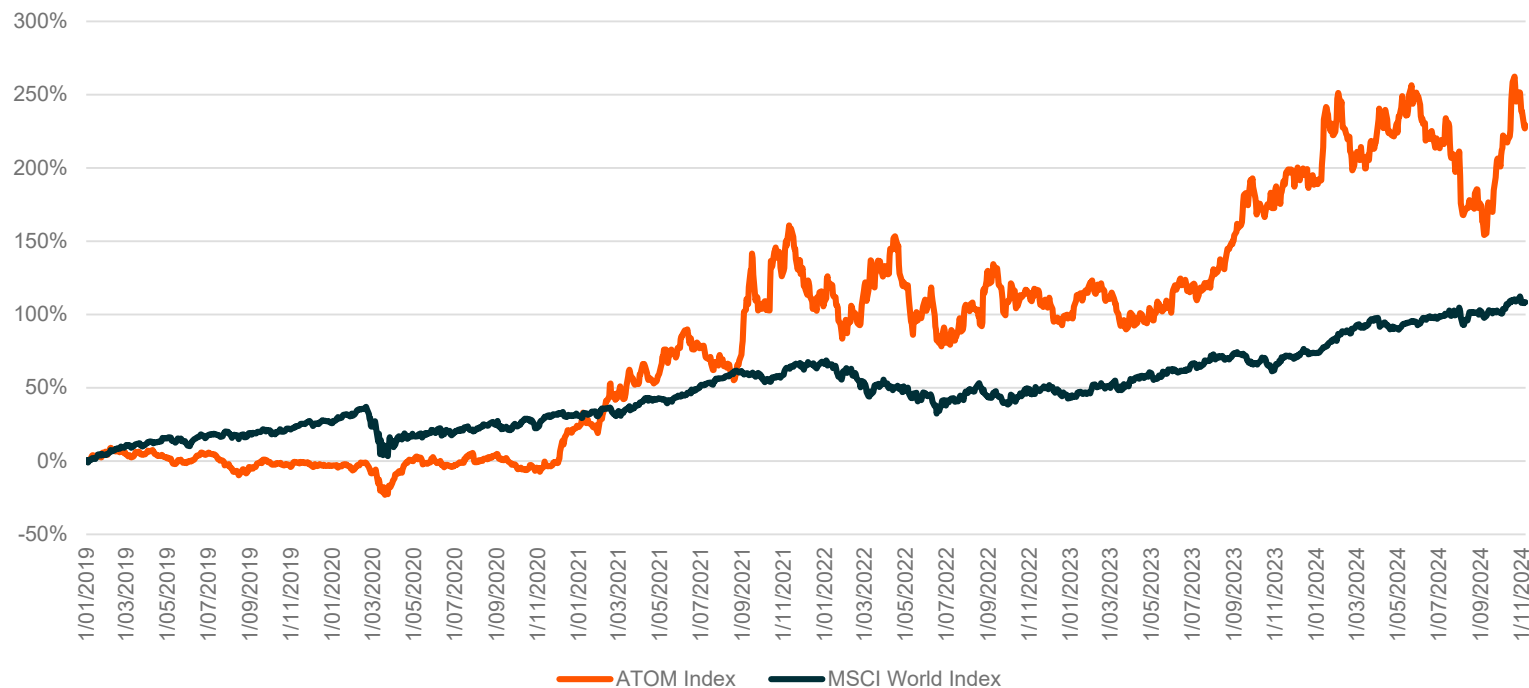
Comparing Small Modular Reactors (SMRs) and Traditional Nuclear for Future Energy Needs

Feature	SMRs	Traditional Reactors
Cost	US\$1-2 billion.	US\$5-10 billion+.
Safety	Passive cooling and underground design.	Relies on active cooling and above-ground setups.
Time to Build	3-5 years with modular construction.	7-10 years due to larger scale and complexity.
Scalability	Can be added incrementally as needed.	Requires large upfront capacity.
Footprint	Smaller, fits into remote or existing sites.	Larger, needs significant space.
Operational Flexibility	Suits integration with renewables.	Best for constant, high output.
Regulatory Complexity	Generally simpler approval in some regions.	Longer and more complex approvals.

Source: Global X ETFs

ATOM | Fund Information

Price Performance of ATOM Index



Past performance is not a reliable indicator of future performance

Total Returns (AUD)	1 Year	3 Years	5 Years	Year-to-date
ATOM Index	16.7%	32.5%	205.9%	12.1%
MSCI World	28.2%	35.6%	123.5%	22.0%

Data based on Bloomberg as of 6 November 2024

Global X Uranium ETF

ASX Code	ATOM
MER	0.69% p.a.
# of Holdings	48
Distribution Freq.	Semi-Annually
Rebalance Freq.	Quarterly
Benchmark Index	Solactive Global Uranium & Nuclear Components Total Return Index.

ATOM offers investors access to a broad range of companies involved in uranium mining and the production of nuclear components, including those in extraction, refining, exploration, or manufacturing of equipment for the uranium and nuclear industries.

Summary

1. **There is a rapid global adoption of AI uncovering opportunities in existing and emerging industries**
2. **You can invest in the entire AI value chain through ETFs like ASX: GXAI**
3. **You could consider adjacent beneficiaries of AI including semiconductors (ASX: SEMI), cybersecurity (ASX: BUGG) or uranium (ASX: ATOM).**

GLOBAL X
by Mirae Asset

Beyond Ordinary ETFs™

Q&A

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