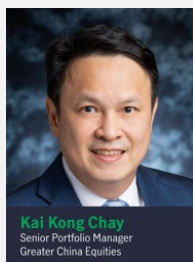


2026 Outlook Series: Greater China Equities



Greater China equity markets registered a strong equity rally in 2025 to date, driven by technology breakthroughs, demand for localisation, go-global demand, and upward earnings growth revisions. We reiterate a positive view on Greater China equity markets going into 2026 as we believe Chinese Mainland and Taiwan are well-positioned to drive high-quality growth to the next level.

Driving the next leg of innovation

Summary:

1. We reiterate a positive view on Greater China equity markets going into 2026, supported by attractive valuations and resilient fund flows.
2. We believe there are various investment opportunities for Chinese Mainland, notably in technology, industrials, renewable energy, healthcare, and new/niche/experienced consumption.
3. For the Taiwan region, we expect further corporate earnings expansion in 2026, with structural growth opportunities in foundries, outsourced semiconductor assembly and test (OSAT) supply chain, thermal cooling solutions and power supply solutions.

From a top-down macro perspective, we see five key drivers supporting China/Hong Kong equity markets in 2026:

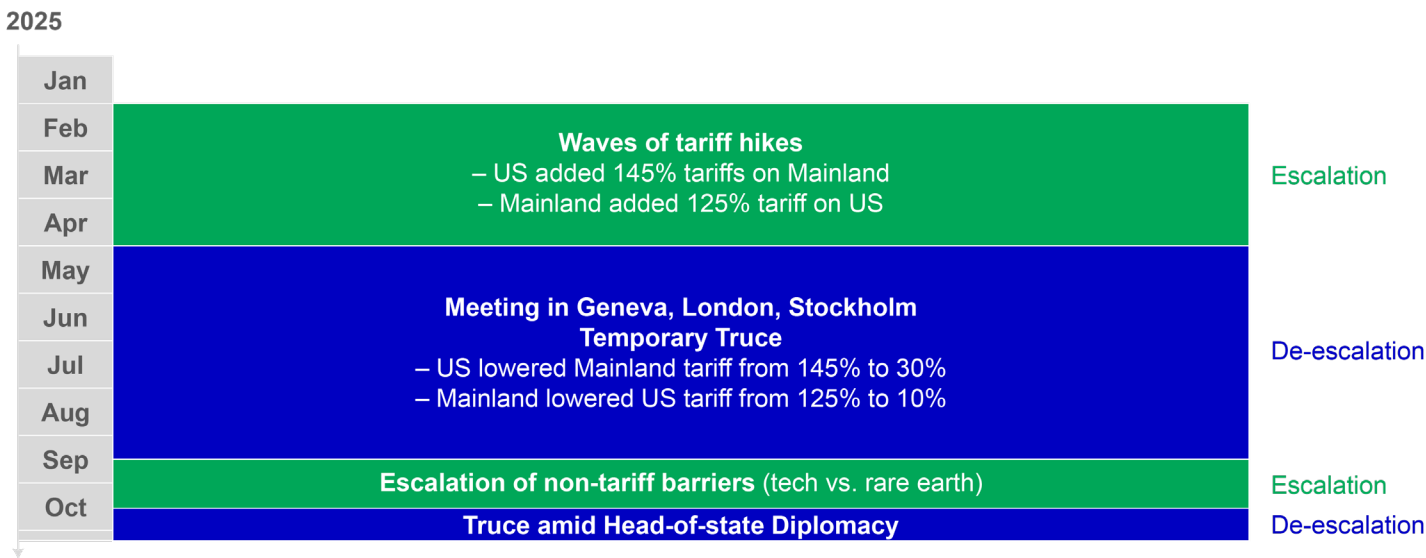
1. Economic stabilisation
2. Supportive fund flows for the China/Hong Kong equity markets
3. The Chinese Mainland's 15th Five-Year Plan
4. Moderating deflationary pressures
5. Green shoots in the Hong Kong property market

1. Stabilising economy

Tariffs and geopolitical issues between Chinese Mainland and the US have stabilised, which is favourable for Greater China equity markets. Specifically, the US agreed to reduce fentanyl-related tariffs on Chinese Mainland from 20% to 10% effective 10 November 2025, while the Chinese government agreed to buy US soybean agricultural products¹. Also, both countries agreed to a pause on additional reciprocal tariffs (i.e., delayed for one year) and shipping industry trade investigations. This improved outcome has reinforced our previous view (note) that more dialogue between the two countries can drive better results. The relative tariff difference versus other non-China economies has also narrowed.

¹ The White House, 1 November 2025

Illustration 1: Key tariff news between Chinese Mainland and US in 2025



Source: MS research, November 2025

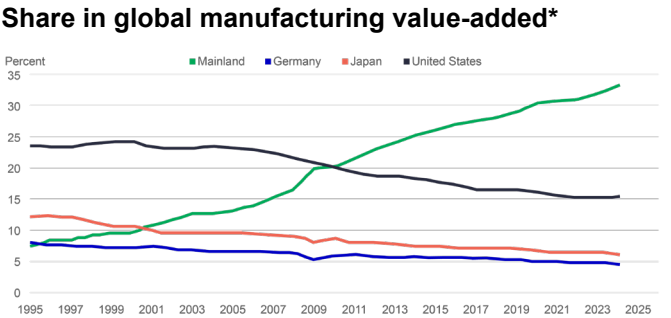
Despite a potentially slower headline export number, Chinese Mainland’s higher-value-added exports are growing (“go-global”).

Chinese Mainland’s export story has evolved and is going from strength to strength. Nowadays, Chinese exporters allocate more to emerging markets and gain global market share in high-end manufacturing sectors, export “services”, intellectual property (IP), travel, consumer services, and biotech in contract research & development (R&D) to the world. For example, Chinese Mainland’s trade with Belt and Road countries now accounts for 47% of the total trade, up from 32% in 2005².

We believe that Chinese Mainland’s go-global trend is sustainable and unlikely to be diverted from its overall growth trajectory, even with tariff noise, because Chinese manufacturers have strong value propositions and possess relative cost advantages that beat global players.

Furthermore, Chinese Mainland has strategically increased its overseas direct investment (ODI) over recent years, particularly within Belt & Road (B&R) Initiative countries.

Illustration 2: Chinese Mainland: the world’s largest manufacturer continues to extend its lead



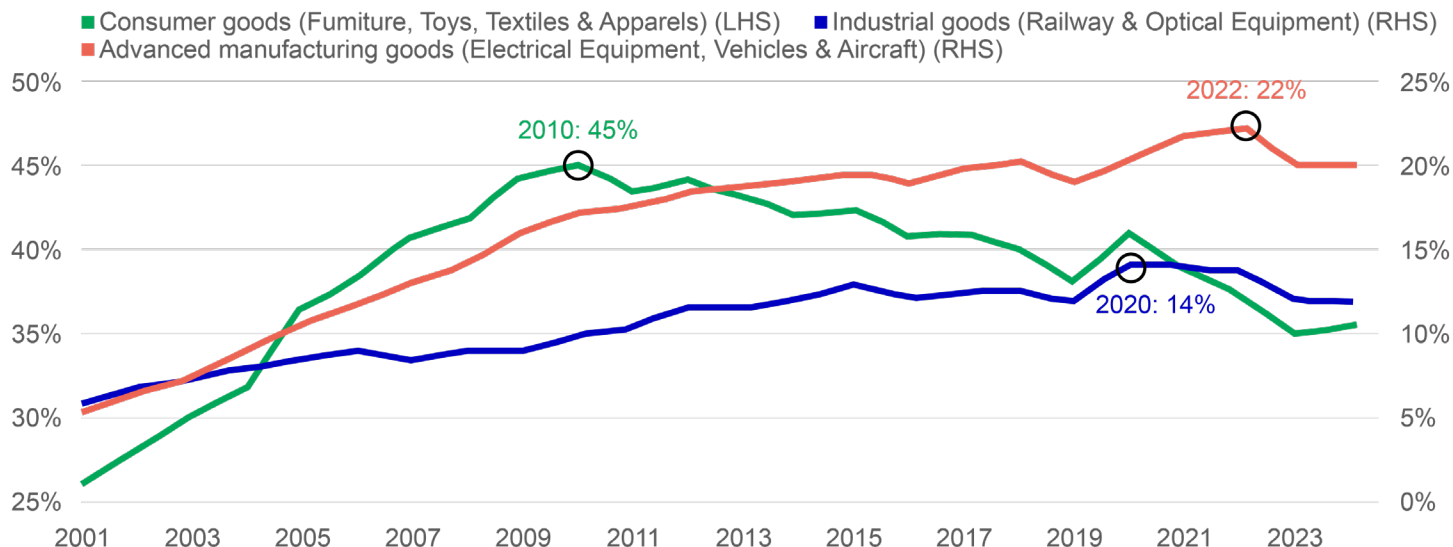
*USD, 2015 prices. Extrapolated with real manufacturing Gross Value Added for 2023, monthly manufacturing production for 2024.

Source: GS Investment Research, Haver Analytics, October 2025

² Source: GS Global Investment Research, October 2025

Illustration 3: Chinese Mainland has moved up the value-added curve, shifting from exporting toys and textiles towards more advanced technology products

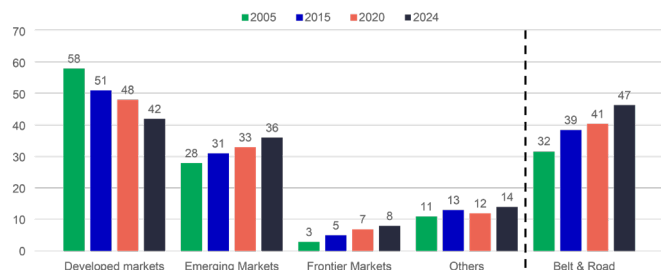
China as % global exports



Source: Comtrade, GS Global Investment Research, October 2025

Illustration 4: The Destination of Chinese exports has shifted from Developed Markets (DM) to Belt & Road and Emerging Markets (EM) over the past two decades

Chinese Mainland Trades Value by Region (% of Total Trades)



Note: Historical B&R values calculated with current participating member economies; DM, EM, and Frontier Markets (FM) calculated with corresponding MSCI Index member economies; Subject to data availability; Others = Total – DM – EM – FM, and B&R has overlaps with others.

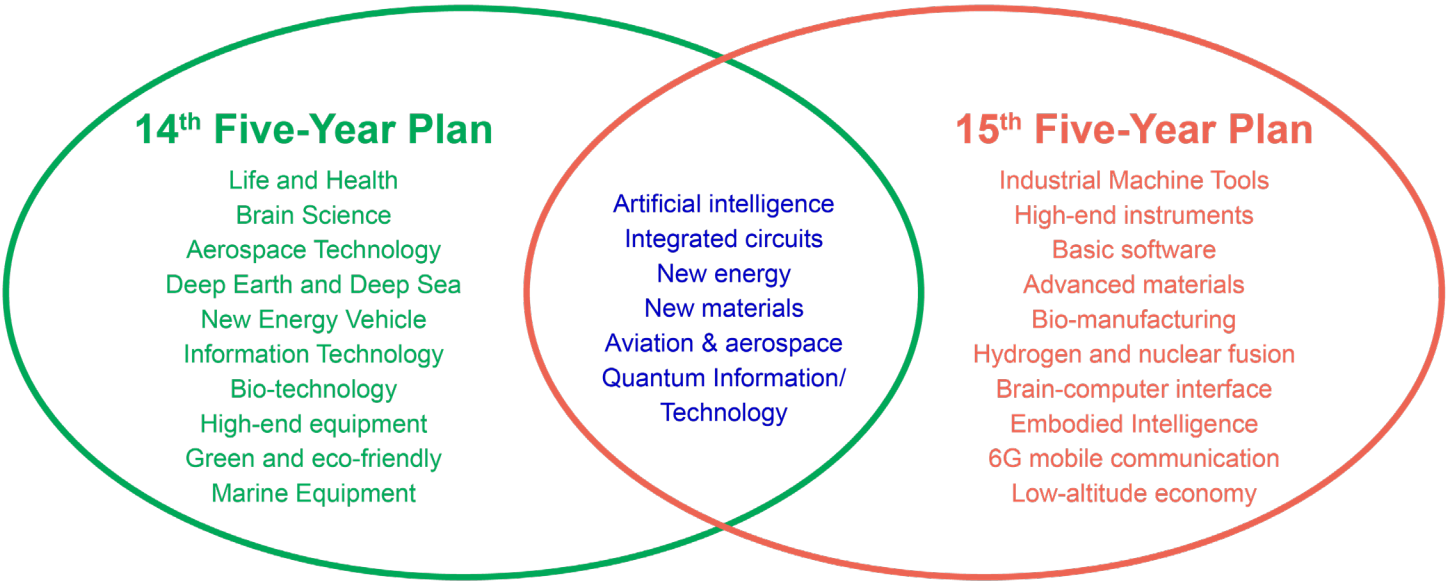
Source: GS Global Investment Research, October 2025

Furthermore, Chinese Mainland's go-global companies have actively built out their overseas production plants in the last few years. With tariff headwinds subsiding, we expect their investments to materialise in 2026.

- Supportive fund flows into Greater China equity markets:** A lower rate environment may drive more fund flows to emerging markets, i.e., this is positive for the Greater China equity market. As highlighted in our previous note, we believe a potentially weak US dollar (USD) may drive more fund flows to Greater China equity markets.
- Chinese Mainland's 15th Five-Year Plan** lays out a clear policy and strategic direction over the next five years, which should drive the next period of growth. To highlight, Chinese Mainland's strive for technology innovation is *not limited to AI* but also includes quantum computing, healthcare/bio-manufacturing, hydrogen and nuclear fusion, new materials, new energy, brain computer interface, and aerospace, etc.)³. Chinese Mainland's has made big strides in localisation in semiconductors and biotech over the last five years.

³ Xinhua News, 26 October 2025

Illustration 5: Chinese Mainland’s 14th and 15th Five-Year Plans – major industries highlighted

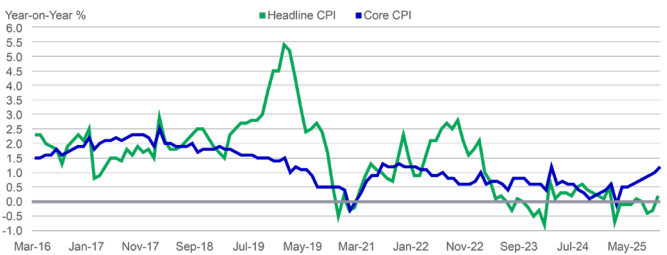


Source: Wind, Goldman Sachs Global Investment Research, November 2025

4. Moderating deflationary pressure

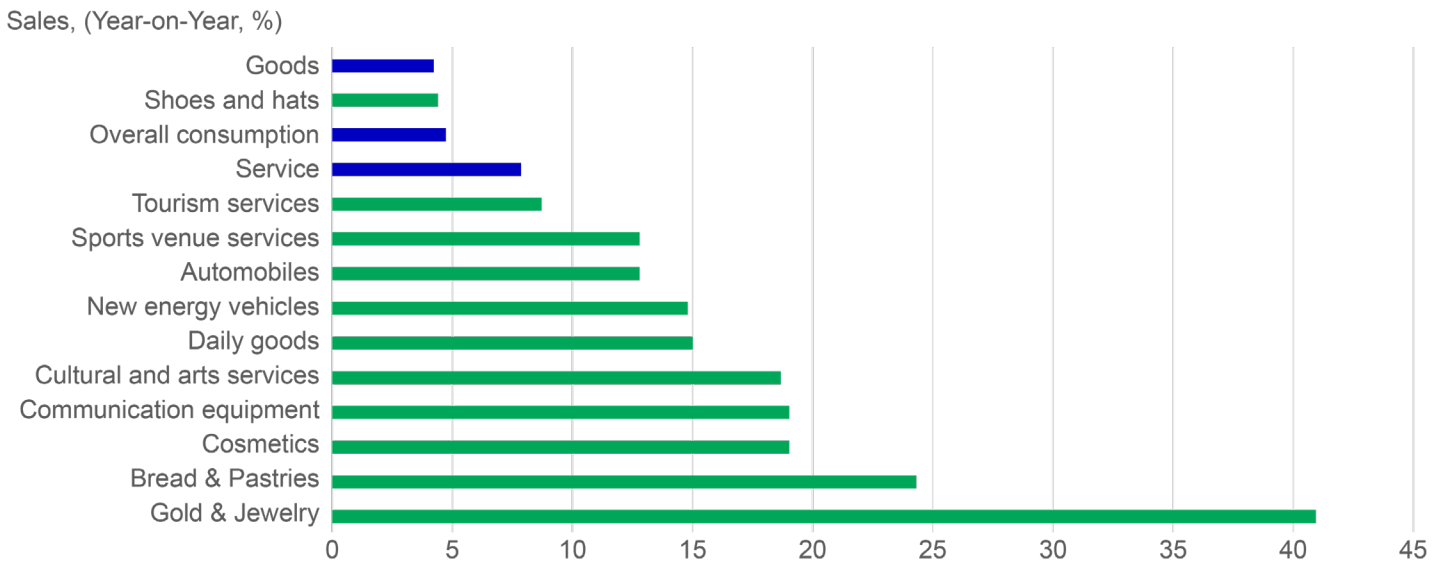
Chinese Mainland’s core consumer price index (CPI) has improved moderately over the year-to-date (YTD) due to the holiday effect. Service consumption and trade-in-policies have positively fuelled CPI growth, and we expect CPI to trend higher should domestic demand improve further.

Illustration 6: Chinese Mainland’s headline CPI and core CPI



Source: Bloomberg, December 2025

Illustration 7: Service consumption benefited from policy support during the National Day Golden Week 2025



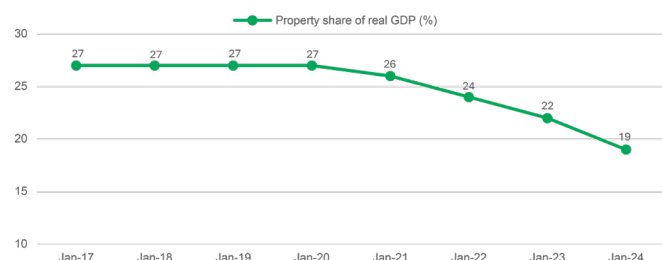
Source: HSBC research, October 2025

On the other hand, we believe Chinese Mainland's producer price index (PPI) may turn positive, fuelled by Chinese Mainland's anti-involution efforts. Chinese Mainland's PPI has been trending negative for a few years due to weaker-than-expected domestic demand and industry overcapacity. Chinese Mainland's anti-involution policies, which strive to improve the supply-and-demand balance in overly competitive or overcapacity industries, may drive improved corporate profitability over the medium to long term.

5. Green shoots in the Hong Kong property market

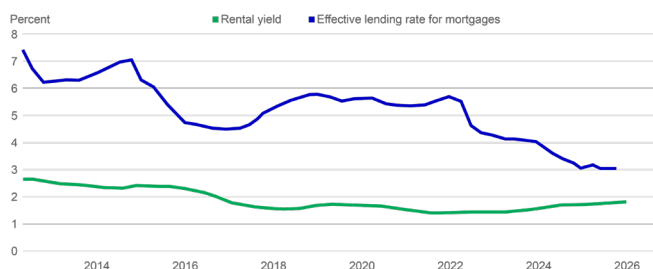
Despite weakness in Chinese Mainland's property market, Chinese Mainland property's impact on gross domestic product (GDP) growth has reduced over the last few years, e.g., from 26% in 2021 to 19% in 2024⁴. We expect the bottoming process to continue. Recently, property sales have improved despite continually falling property prices. On the policy front, Chinese Mainland recent mortgage cut is positive, which should aid Chinese Mainland's property sector overall.

Illustration 8: Chinese Mainland: Property share of real GDP (%) (2017-2024) has dropped from 26% in 2021 to 19% in 2024



Source: GS research, November 2025

Illustration 9: Chinese Mainland's lending for mortgage and rental yield



Source: GS research, November 2025

Elsewhere, the **Hong Kong property sector** shows signs of recovery, driven by three factors: (1) expectation of the US Federal Reserve's rate cut into 2025 (now with positive carry), (2) improving transaction volumes, and (3) modest price recovery. 2025 YTD housing prices have grown by 2% and overall transaction volume has improved by 21%, recovering almost back to 2019 levels⁵. We favour companies with strong buyback ability and supportive dividend yields.

Illustration 10: Hong Kong: housing prices have regained momentum



Source: Centaline home price index, as of 7 December 2025

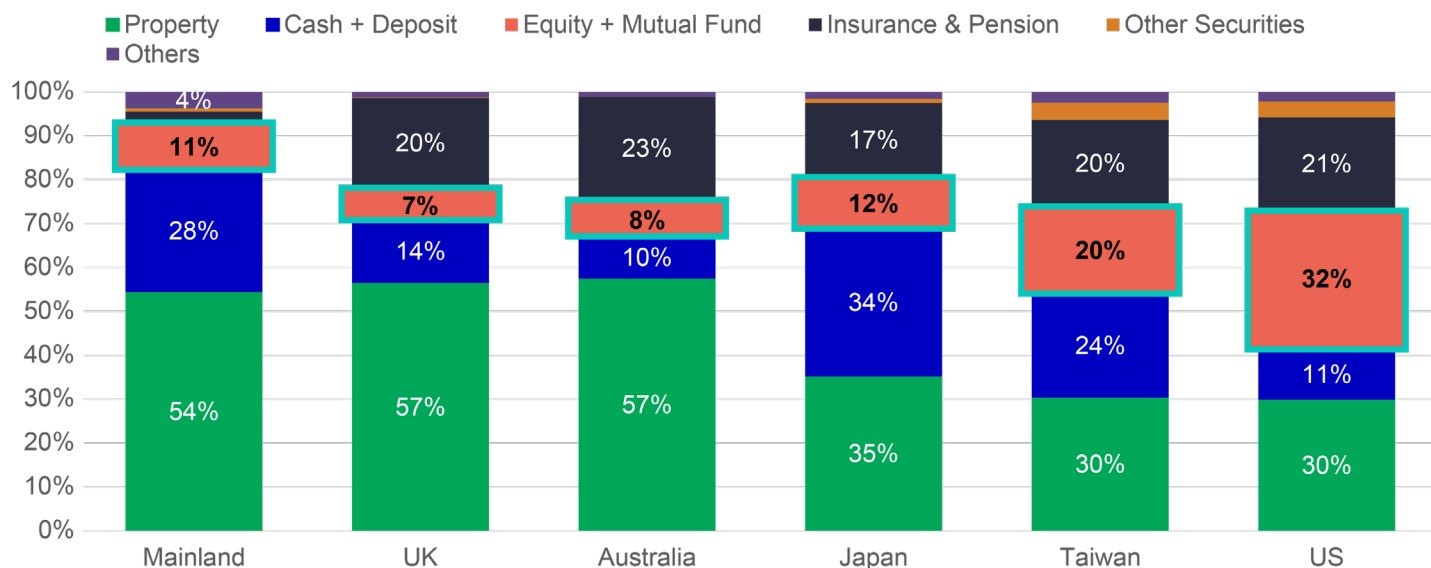
Summary of our views on China/Hong Kong Equity markets

Overall, we reiterate a positive stance on both the China H-share and China A-share markets going into 2026. On relative valuation, the China A-share market may have more upside vs. China H-shares, given the valuation premium difference between H-shares and A-shares. In the medium to long term, we see migration of Chinese Mainland's household assets into equity markets, as evident by the 2025 move. Comparing Chinese Mainland to developed markets, equities remain an under-owned asset class among Chinese Mainland's composition of total household assets (see Illustration 11).

⁴ Source: GS research, November 2025

⁵ Source: HSBC Global Research, Centaline home price index, November 2025

Illustration 11: Composition of household total assets



Source: GS research, November 2025. Data as of 30 June, 2025.

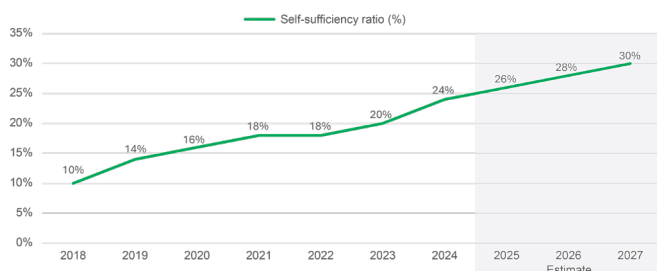
Bright spots for China/HK equities

1. Chinese Mainland Technology

We expect the Chinese Mainland's technology innovation to continue to accelerate in 2026 across many areas.

First of all, China's semiconductor localisation has accelerated in recent years, growing from 16% in 2020 to an estimated 26% by 2025⁶. We expect the same trend to continue in 2026 (see Illustration 12), driven by increased demand from local customers (e.g., foundries and memory companies due to capacity constraints) and improved technical capabilities (i.e., moving to advanced nodes).

Illustration 12: Chinese Mainland's semiconductor self-sufficiency ratio



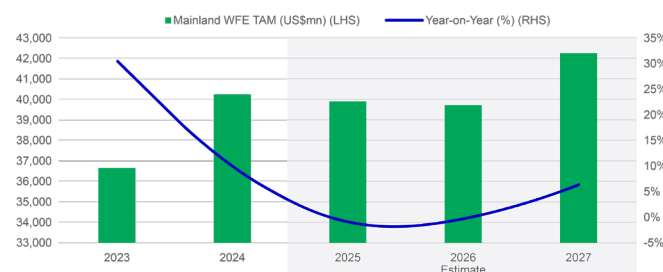
Source: Morgan Stanley Research, October 2025*

⁶ Source: Morgan Stanley Research, October 2025

*The above information may contain projections or other forward-looking statements regarding future events, targets, management discipline or other

We believe Chinese Mainland semiconductor equipment players are strategically positioned, driven by (1) market-share gains, (2) capacity needs from local artificial intelligence (AI) graphics processing units (GPUs), high bandwidth memory (HBM), inspection tools, and (3) a stronger-than-expected memory cycle. Additional capital expenditure (capex) in 2026 can be derived from (1) demand for memory, (2) lithography tools (which remains the main bottleneck in Chinese Mainland's advanced nodes as it still relies on imported deep ultraviolet (DUV).

Illustration 13: Total addressable market (TAM) of Chinese Mainland's wafer fabrication equipment (WFE)



Source: Company data, MS research, October 2025*

expectations. There is no assurance that such events will occur, and the future course may be significantly different from that shown here.

2. Chinese Mainland Industrials - Advanced manufacturing

On the other hand, we believe advanced manufacturing will play an important role over the next five years. As highlighted in Chinese Mainland’s 15th Five-Year Plan, Chinese Mainland is striving to build a modern industrial system anchored in advanced manufacturing. Also, Chinese Mainland aims to advance digitalisation.

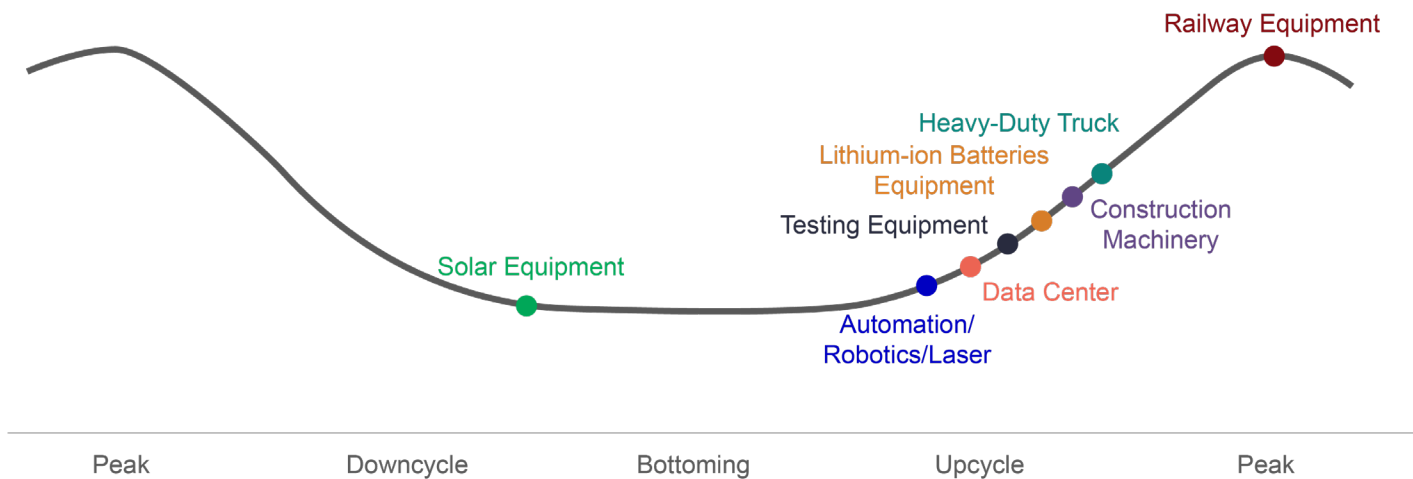
Currently, Chinese Mainland industrials are in an upcycle. Also, the Chinese Mainland’s industrial components have elevated localisation rates and that are poised to increase as the Chinese Mainland is a leader in manufacturing sophisticated components, benefiting the local ecosystem.

Going into 2026, we see growth opportunities in three areas: (1) AI-enabled intelligent manufacturing and equipment, (2) advanced equipment localisation, and (3) go global trend.

We favour (1) automation and robotics companies, (2) construction machinery companies (which benefit from cyclical demand recovery), and (3) lithium battery equipment companies.

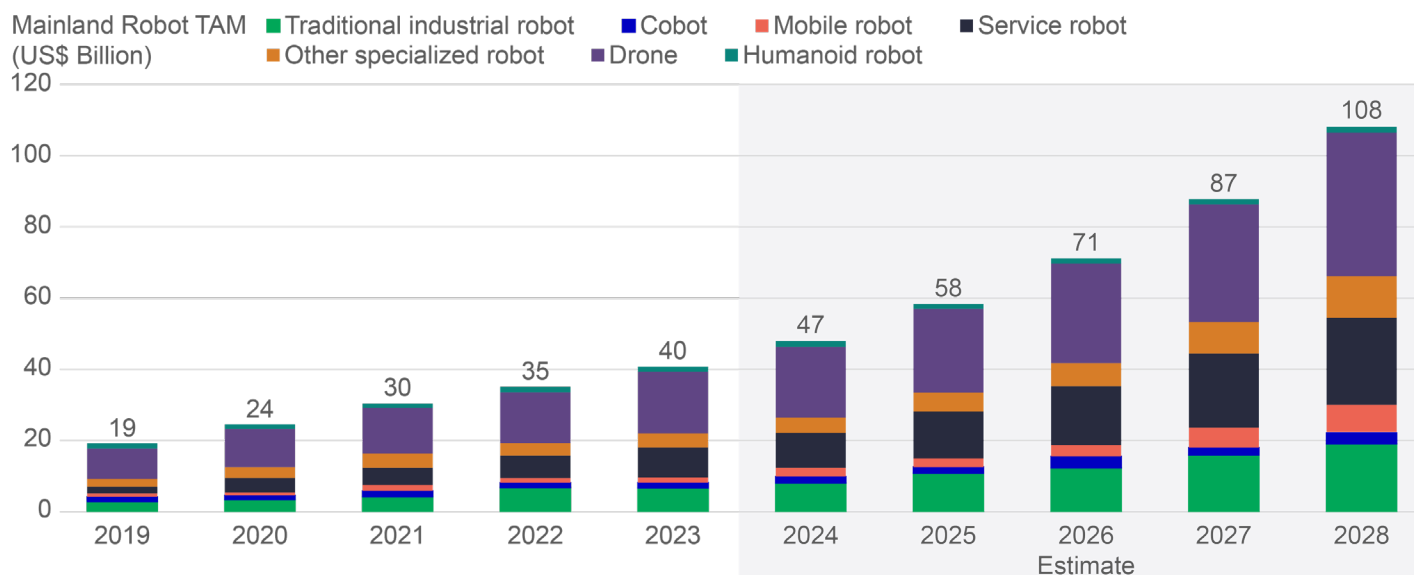
For Chinese Mainland’s robotic market, total addressable market (TAM) for Chinese Mainland’s robot market is expected to grow from USD 58 billion in 2025 to USD 108 billion in 2028.

Illustration 14: Chinese Mainland Industrials: Where are we in the cycle?



Source: MS research, November 2025

Illustration 15: Chinese Mainland Robot total addressable market (TAM)



Source: MS research, November 2025*

3. Chinese Mainland's renewable energy supply chain

In the Chinese Mainland's 15th Five-Year Plan, Chinese Mainland strives to "actively and steadily advance and achieve peak carbon dioxide by 2030". We believe the renewable energy supply chain stands to benefit from this structural growth opportunity. Furthermore, power equipment, battery equipment, and energy storage systems (ESS) are clear beneficiaries.

The latest changes in Chinese Mainland's renewable energy policies provide incentives for businesses to invest in ESS.

In September 2025, China set an ESS deployment goal of 180 Gigawatt (GW) cumulative capacity by 2027, implying annual power capacity of around 35GW in 2025-2027, versus 43.7GW in 2024⁷.

China should enter a longer-duration era of ESS deployment under the renewable market trading scheme. We believe China's ESS target may secure high capex for ESS deployment over the next three years.

Chinese companies dominate the battery equipment industry and are among the top five

lithium-ion battery (LiB) equipment manufacturers globally with a concentration ratio 5 (CR5) of approximately 40%. Domestic equipment makers play a pivotal role in the global LiB market, as technological advancements (from liquid to solid state) drive potential adoption over the next few years.

4. Chinese Mainland Healthcare

With a better funding environment and more potential rate cuts going into 2026, Chinese Mainland's biotech funding environment should improve, which will enable Chinese healthcare companies to pursue more R&D projects. We remain positive on China biotech companies with strong R&D abilities while riding upon out-licensing trends as well as contract sales organisations (CXO) with R&D outsourcing capabilities.

5. Chinese Mainland's new/niche consumption

For Chinese Mainland consumption, we expect "K-shaped recovery" (either low-end or high-end) and favour (1) low-end consumption, (2) high-end consumption, and (3) experienced consumption.

- **Low-end consumption:** We believe consumer companies in this segment (e.g., niche food &

* The above information may contain projections or other forward-looking statements regarding future events, targets, management discipline or other expectations. There is no assurance that such events will occur, and the future course may be significantly different from that shown here.

⁷ Chinese Mainland's National Development and Reform Commission and National Energy Administration "Special action plan for large-scale construction of new energy storage (2025-2027)", 12 September 2025.

beverage (F&B) companies) need to gain market shares by competing with channel players while achieving economies of scale.

- **High-end consumption:** We believe consumer companies in this segment (e.g., domestic luxury) will continue to do well.
- **Experienced consumption:** We continue to believe service-oriented consumption, such as online music, concerts, and IP companies, should continue to do well.

For example, global IP collectibles have become a mainstream market (i.e., a USD 100 billion+ market) that has outgrown most consumer discretionary categories. The industry experienced a strong sales of around 8% compound annual growth (CAGR) during 2019-2024 and is *forecast to grow at around 6% CAGR for 2024-2027.

Character- and entertainment-driven collectibles, ranging from toys, trading cards, apparel and lifestyle products, are gaining consumer wallet share. By region, China and Asia Pacific are emerging as key growth engines. Globally, North America is the focus area for Asian companies, which account for almost 50% of the global character IP licensing market.

2026 Taiwan equity market outlook

Taiwan: Aiming to be a global AI hub

Taiwan's economy in 2025 registered a strong print of around 7%, boosted by the solid export of AI-related technology products, offset by moderating domestic demand. The announcement of semiconductor tariffs in Q3 2025 removed an overhang from the Taiwan technology sector, as companies with investments in the US (or intending to invest) are exempted from semiconductor tariffs.

While Taiwan is subjected to a 20% reciprocal tariff, exempted goods accounted for over 80% of Taiwan's exports to the US in May 2025, leaving an effective tariff rate increase of below 5%.

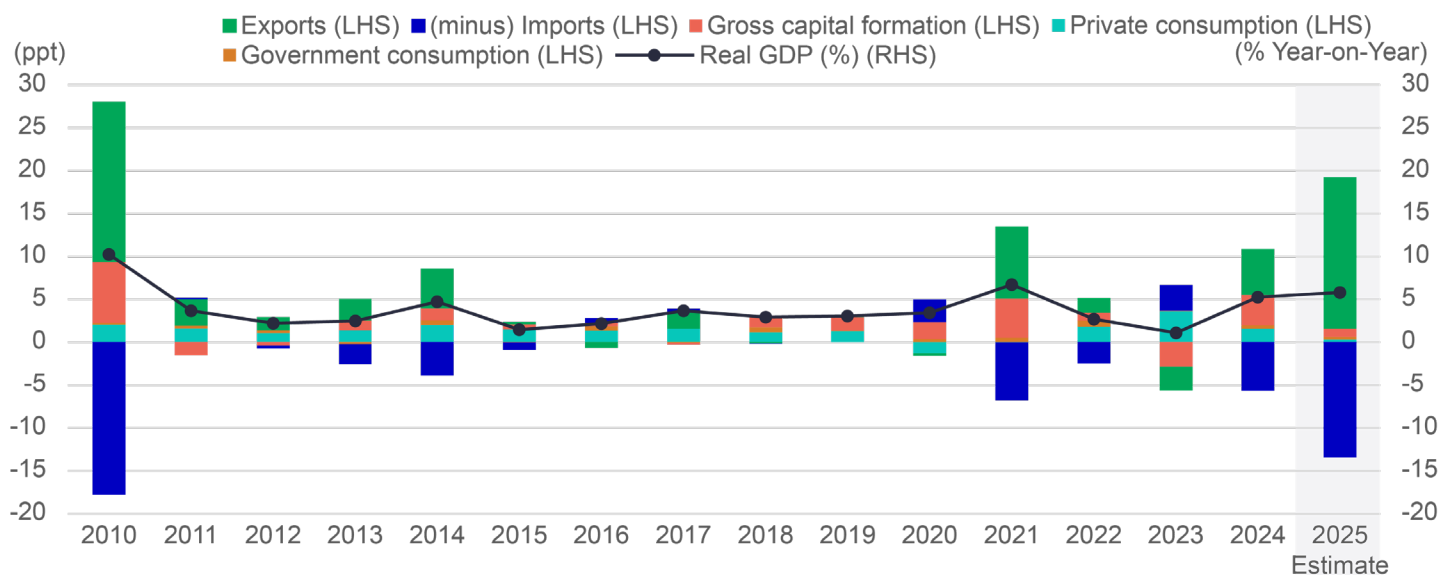
Overall, we expect moderating domestic inflation and the export-driven growth trajectory to continue going into 2026. Over the longer term, Taiwan aims to generate more than NT\$15 trillion (USD 480 billion) in output value in the sector, create 500,000 AI-related jobs, and establish three world-class AI laboratories by 2040, positioning Taiwan as a key node for global AI innovation⁸.

On earnings, we expect further corporate earnings expansion in 2026, driven by both earnings growth and multiple expansions.

* The above information may contain projections or other forward-looking statements regarding future events, targets, management discipline or other expectations. There is no assurance that such events will occur, and the future course may be significantly different from that shown here.

⁸ Taiwan region's government website, 20 November 2025.

Illustration 16: Taiwan region: Breakdown of GDP Growth (2010-2025)



Source: HSBC Global research, CEIC, September 2025*

What are the bright spots for Taiwan equities?

1. Foundries: advanced nodes take all

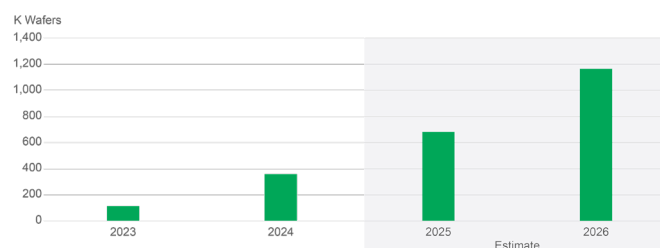
Taiwan's foundry companies are going from strength to strength, driven by (1) solid AI infrastructure plans from US cloud service providers (CSPs), (2) demand for AI GPUs and AI application-specific integrated circuits (ASICs), as well as (3) the new-product cycle.

The competitive dynamics among hyperscalers have created a head-to-head race in AI capability, with the major five US companies committing over USD 13 billion in capex for 2025 (+59% year on year).

Furthermore, data centres are now the key driver of the semiconductor industry, growing its revenue from 10% of semiconductor ex-memory revenue in 2020 to 37% now (versus mobile declining from 26% to 17% during the same period).

Going into 2026, Taiwan foundry players should continue to benefit from solid demand for Chip-on-Wafer-on-Substrate (CoWoS)⁹ for AI GPU and AI ASIC products.

Illustration 17: Global CoWoS capacity demand by key customers (2023-2026)



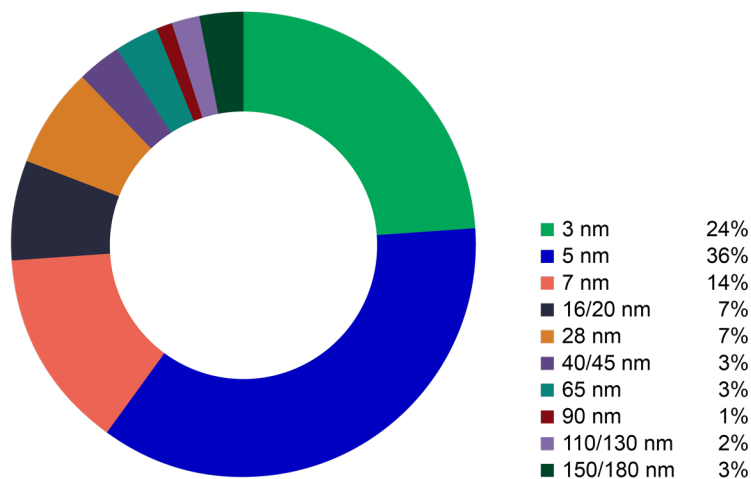
Source: MS research, 29 October, 2025*

Also, Taiwan's foundries are leading in terms of advanced nodes (i.e., advanced nodes take all). We favour companies with advanced node capacities and strong R&D capabilities.

* The above information may contain projections or other forward-looking statements regarding future events, targets, management discipline or other expectations. There is no assurance that such events will occur, and the future course may be significantly different from that shown here.

⁹ CoWoS stands for Chip-on-Wafer-on-Substrate, an advanced semiconductor packaging technology, which enables multiple chips—such as CPUs, GPUs, and High Bandwidth Memory (HBM) to be mounted side-by-side on a silicon interposer, which is then attached to a substrate.

Illustration 18: Leading foundry’s revenue breakdown by nodes



Source: HSBC Global Research, July 2025. “nm” stands for nanometres.

2. OSAT supply chain

Taiwan’s OSAT supply chain is highly integrated with foundry players, which helps increase efficiencies and effectiveness within Taiwan’s semiconductor ecosystem. We believe that Taiwan’s OSAT supply chain should see further earnings growth in 2026 on the back of positive earnings revisions. Chipsets become more complicated, and the chipset testing time is lengthened. We favour testing-related materials companies as they are benefiting from a solid order backlog going into 2026.

Taiwan’s semiconductor ecosystem, including major semiconductor material/equipment suppliers, IP vendors, ASIC integrated circuit (IC) designers, OSAT partners, and fabless/integrated device manufacturers (IDMs), benefit from these structural growth trends.

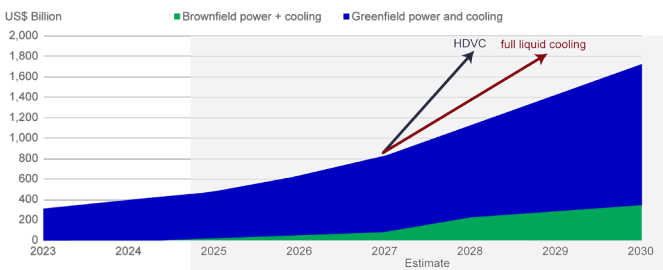
3. Thermal cooling solutions

Global data centre capacity is *projected to grow rapidly and reach 250,000 megawatts (MW) by 2030, with the US remaining the largest market, followed by China, Europe, and other regions. AI demand is a major driver that fuels deployment for both greenfield (new) and brownfield (upgrade) projects.

The rise in data centre build also creates opportunities for various cooling solutions, e.g.,

white-space power and cooling and liquid cooling. We favour thermal and liquid-cooling solution companies in the supply chain (including air-assisted and liquid¹⁰-to-liquid systems) to achieve lower power usage effectiveness (PUE) and support high-density AI workloads.

Illustration 19: Global data centre power and cooling infrastructure is expected to grow at a 30% CAGR from 2026-30



Source: MS research, September 2025. HDVC stands for high-voltage direct current*

As data centre infrastructure becomes more sophisticated with higher rack density, US cloud service providers and original design manufacturers (ODMs) need to purchase new cooling solutions for data centres to support growth. For example, a liquid-to-liquid cooling architecture allows coolants to circulate from a cooling tower through a loop that interfaces directly with the GPU/central processing unit (CPU) cold plates within the server. The infrastructure connects grey-space cooling systems

* The above information may contain projections or other forward-looking statements regarding future events, targets, management discipline or other expectations. There is no assurance that such events will occur, and the future course may be significantly different from that shown here.

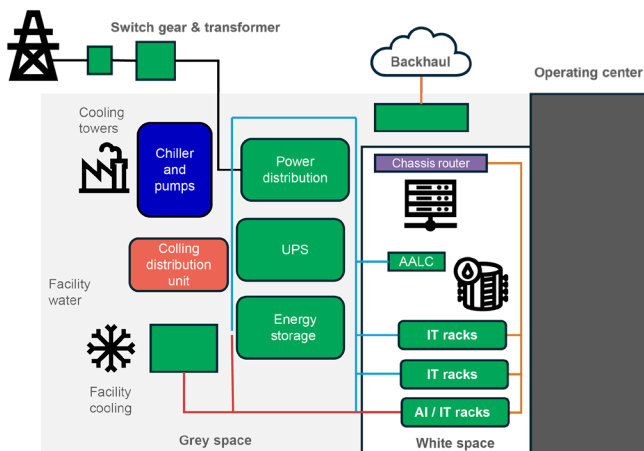
to white-space computation hardware to enable thermal transfer. Furthermore, there are different liquid cooling options, including:

- (1) liquid-cooled rear-door heat exchangers
- (2) single phase or two-phase (evaporative) direct-to-chip liquid cooling (i.e., allow coolant to circulate within the rack directly to the chip). Direct-to-chip liquid cooling effectively removes 70-75% of the heat generated by the rack equipment, and the remainder of the heat (20-25%) is removed by air cooling.
- (3) single-phase or two-phase (evaporative) immersion cooling (i.e., rack submerged in the coolant liquid)

Some of the common equipment required for data centre cooling includes cold plates, coolant distribution units (CDU), air-assisted liquid-cooling systems, and liquid-to-liquid CDUs.

We favour thermal cooling leaders in Taiwan with comprehensive product offerings.

Illustration 20: Data centre infrastructure



Source: Manulife Investment Management, MS research, September 2025

4. Power consumption

Furthermore, a higher requirement for power consumption is required as data centres migrate to more sophisticated power architecture. For example, implementing an 800 high-voltage direct current (HVDC) power system will significantly reduce power losses versus traditional AC-to-DC transitions and voltage step-down, as well as improve power conversion efficiencies. Product offerings in power supply and management solutions include uninterruptible power supplies (UPS), power supply units (PSU) in racks, battery back-up units (BBUs), and DC converter modules.

We favour leaders in server power supply products with strong technological capabilities and integrated power management offerings.

Conclusion

From a macro perspective, we believe that the Chinese Mainland's economy has multiple avenues to grow, driven by the 15th Five-Year Plan. We reiterate a positive view on Greater China equity markets going into 2026, supported by attractive valuations and resilient fund flows.

With tariff noises subsiding, we believe there are various investment opportunities for Chinese Mainland, notably in (1) technology, (2) industrials, (3) renewable energy, (4) healthcare, and (5) new/niche/experienced consumption.

For the Taiwan region, we continue to see solid emerging structural growth opportunities in (1) foundries, (2) OSAT supply chain, (3) thermal cooling solutions and (4) power supply solutions.

Important information

© 2025 Manulife Investment Management. All rights reserved. Manulife, Manulife Investment Management, Stylized M Design, and Manulife Investment Management & Stylized M Design are trademarks of The Manufacturers Life Insurance Company and are used by it, and by its affiliates under license.

This information is for the exclusive use of the intended institutional investors or their agents and may not be transmitted, reproduced or used in whole or in part for any other purpose, nor may it be disclosed or made available, directly or indirectly, in whole or in part, to any other person without our prior written consent. It is intended only for recipients in jurisdictions where receiving this information is permitted by law.

The distribution of the information contained in this presentation may be restricted by law and persons who receive it are required to comply with any such restrictions. The contents of this presentation are not intended for distribution to, or use by, any person or entity in any jurisdiction or country in which such distribution or use would be contrary to any applicable laws or regulations. By accepting this material, you confirm that you are aware of the laws in your own jurisdiction relating to the provision and sale of the funds, portfolios or other investments discussed in this presentation and you warrant and represent that you will not pass on or use the information contained in this presentation in a manner that could constitute a breach of such laws by any Manulife entity or any other person.

About Manulife Wealth & Asset Management

As part of Manulife Financial Corporation, Manulife Wealth & Asset Management provides global investment, financial advice, and retirement plan services to 19 million individuals, institutions, and retirement plan members worldwide. Our mission is to make decisions easier and lives better by empowering people today to invest for a better tomorrow. As a committed partner to our clients and as a responsible steward of investor capital, we offer a heritage of risk management, deep expertise across public and private markets, and comprehensive retirement plan services. We seek to provide better investment and impact outcomes and to help people confidently save and invest for a more secure financial future. Not all offerings are available in all jurisdictions. For additional information, please visit manulifeim.com.

Manulife | CQS Investment Management, is a trading name of CQS (UK) LLP, authorised and regulated by the UK Financial Conduct Authority, and/or CQS (US), LLC, which is a registered investment adviser with the US Securities and Exchange Commission and a member of the National Futures Association. The term "CQS" or "Manulife | CQS Investment Management" as used herein may include one or both of CQS (UK) LLP and CQS (US), LLC. Manulife | CQS Investment Management is a subsidiary of Manulife Investment Management (Europe) Limited.

This material has not been reviewed by, is not registered with any securities or other regulatory authority, and may, where appropriate, be distributed by the following Manulife entities in their respective jurisdictions. Additional information about Manulife Investment Management may be found at manulifeim.com/institutional

Australia: Manulife Investment Management Timberland and Agriculture (Australasia) Pty Ltd, Manulife Investment Management Timberland and Agriculture Inc, Manulife Investment Management (Hong Kong) Limited. Canada: Manulife Investment Management Limited, Manulife Investment Management Distributors Inc., Manulife Investment Management (North America) Limited, Manulife Investment Management Private Markets (Canada) Corp. Chinese Mainland: Manulife Overseas Investment Fund Management (Shanghai) Limited Company. European Economic Area: Manulife Investment Management (Ireland) Ltd. which is authorised and regulated by the Central Bank of Ireland Hong Kong: Manulife Investment Management (Hong Kong) Limited. Indonesia: PT Manulife Aset Manajemen Indonesia. Japan: Manulife Investment Management (Japan) Limited. Malaysia: Manulife Investment Management (M) Berhad 200801033087 (834424-U) Philippines: Manulife Investment Management and Trust Corporation. Singapore: Manulife Investment Management (Singapore) Pte. Ltd. (Company Registration No. 200709952G) South Korea: Manulife Investment Management (Hong Kong) Limited. Switzerland: Manulife IM (Switzerland) LLC. Taiwan: Manulife Investment Management (Taiwan) Co. Ltd. United Kingdom: Manulife Investment Management (Europe) Ltd. which is authorised and regulated by the Financial Conduct Authority

United States: John Hancock Investment Management LLC, Manulife Investment Management (US) LLC, Manulife Investment Management Private Markets (US) LLC and Manulife Investment Management Timberland and Agriculture Inc. Vietnam: Manulife Investment Fund Management (Vietnam) Company Limited.

No Manulife entity makes any representation that the contents of this presentation are appropriate for use in all locations, or that the transactions, securities, products, instruments, or services discussed in this presentation are available or appropriate for sale or use in all jurisdictions or countries, or by all investors or counterparties. All recipients of this presentation are responsible for compliance with applicable laws and regulations.

This material is intended for the exclusive use of recipients in jurisdictions who are allowed to receive this information under their applicable law. The opinions expressed are those of the author(s) and are subject to change without notice. Our investment teams may hold different views and make different investment decisions. These opinions may not necessarily reflect the views of Manulife Investment Management or its affiliates. There can be no assurance that actual outcomes will match the assumptions or that actual returns will match any expected returns. The information and/or analysis contained in this material has been compiled or arrived at from sources believed to be reliable, but Manulife Investment Management does not make any representation as to their accuracy, correctness, usefulness or completeness and does not accept liability for any loss arising from the use of the information and/or analysis contained here. Neither Manulife Investment Management or its affiliates, nor any of their directors, officers or employees shall assume any liability or responsibility for any direct or indirect loss or damage or any other consequence of any person acting or not acting in reliance on the information contained here.

The information in this material may contain projections or other forward-looking statements regarding future events, targets, management discipline or other expectations, and is only current as of the date indicated. The information in this material including statements concerning financial market trends, are based on current market conditions, which will fluctuate and may be superseded by subsequent market events or for other reasons. This material was prepared solely for informational purposes and does not constitute, and is not intended to constitute, a recommendation, professional advice, an offer, solicitation or an invitation by or on behalf of Manulife Investment Management or its affiliates to any person to buy or sell any security or to adopt any investment strategy, and shall not form the basis of, nor may it accompany nor form part of, any right or contract to buy or sell any security or to adopt any investment strategy. Nothing in this material constitutes investment, legal, accounting, tax or other advice, or a representation that any investment or strategy is suitable or appropriate to your individual circumstances, or otherwise constitutes a personal recommendation to you. Neither Manulife Investment Management nor its affiliates provide legal or tax advice, and you are encouraged to consult your own lawyer, accountant, or other advisor before making any financial decision. Prospective investors should take appropriate professional advice before making any investment decision. In all cases where historical performance is presented, note that past performance does not guarantee future results and you should not rely on it as the basis for making an investment decision.

The distribution of the information contained in this presentation may be restricted by law and persons who access it are required to comply with any such restrictions. The contents of this presentation are not intended for distribution to, or use by, any person or entity in any jurisdiction or country in which such distribution or use would be contrary to any applicable laws or regulations. By accepting this material, you confirm that you are aware of the laws in your own jurisdiction relating to the provision and sale of the funds, portfolios or other investments discussed in this presentation and you warrant and represent that you will not pass on or use the information contained in this presentation in a manner that could constitute a breach of such laws by any Manulife entity or any other person.

Australia: Manulife Investment Management (Hong Kong) Limited (Manulife IM (HK)) and Manulife Investment Management Timberland and Agriculture Inc. (MIMTA) are exempt from the requirement to hold an Australian financial services license under the Corporations Act 2001 (Cth) in respect to the financial services provided to wholesale clients in Australia. Manulife IM (HK) and MIMTA accordingly do not hold an Australian financial services license. Manulife IM (HK) is regulated by the Securities and Futures Commission of Hong Kong ("SFC") under Hong

Kong laws, and MIMTA is regulated by the Securities and Exchange Commission of the United States of America under United States of America laws, both of which differ from Australian laws. This document is directed at wholesale investors only.

Chinese Mainland: This material is prepared solely for informational purposes and does not constitute an offer to sell or the solicitation of an offer to buy any securities in Chinese Mainland to any person to whom it is unlawful to make the offer or solicitation in Chinese Mainland. The securities may not be offered, sold or delivered, or offered or sold or delivered to any person for reoffering or resale or redelivery, in any such case directly or indirectly, in Chinese Mainland in contravention of any applicable laws.

The issuer does not represent that this material may be lawfully distributed, or that any securities may be lawfully offered, in compliance with any applicable registration or other requirements in Chinese Mainland, or pursuant to an exemption available thereunder, or assume any responsibility for facilitating any such distribution or offering. In particular, no action has been taken by the issuer which would permit a public offering of any securities or distribution of this material in Chinese Mainland. Accordingly, the securities are not being offered or sold within Chinese Mainland by means of this material or any other document. Neither this material nor any advertisement or other offering material may be distributed or published in Chinese Mainland, except under circumstances that will result in compliance with any applicable laws and regulations.

Further, neither this material nor any funds/strategies mentioned in this material (if any) has been submitted to or approved by the China Securities Regulatory Commission or other relevant Chinese government authorities (which, for the purposes of this paragraph, does not include the authorities in Hong Kong SAR, Macau SAR or Taiwan Region), unless otherwise expressly indicated. Securities denominated in foreign exchange or with the underlying investments in the offshore markets may only be offered or sold to investors of Chinese Mainland that are authorized and qualified to buy and sell such securities. Prospective investors resident in Chinese Mainland are responsible for obtaining all relevant and necessary approvals from the Chinese government authorities, including but not limited to the State Administration of Foreign Exchange (if needed), before investing.

Hong Kong: This material is provided to Professional Investors, as defined in the Hong Kong Securities and Futures Ordinance and the Securities and Futures (Professional Investor) Rules, in Hong Kong only. It is not intended for and should not be distributed to, or relied upon, by members of the public or retail investors.

Malaysia: This material was prepared solely for informational purposes and is not an offer or solicitation by anyone in any jurisdictions or to any person to whom it is unlawful to make such an offer or solicitation.

Singapore: This material is intended for Accredited Investors and Institutional Investors as defined in the Securities and Futures Act.

South Korea: This material is intended for Qualified Professional Investors under the Financial Investment Services and Capital Market Act ("FSCMA"). Manulife Investment Management does not make any representation with respect to the eligibility of any recipient of these materials to acquire any interest in any security under the laws of Korea, including, without limitation, the Foreign Exchange Transaction Act and Regulations thereunder. An interest may not be offered, sold or delivered directly or indirectly, or offered, sold or delivered to any person for re-offering or resale, directly or indirectly, in Korea or to any resident of Korea,

except in compliance with the FSCMA and any other applicable laws and regulations. The term "resident of Korea" means any natural person having his place of domicile or residence in Korea, or any corporation or other entity organized under the laws of Korea or having its main office in Korea.

Switzerland: This material may be made available in Switzerland solely to Qualified Investors (as defined in Article 10(3) and (3ter) of the Swiss Collective Investment Schemes Act ("CISA") and its implementing ordinance), at the exclusion of Excluded Qualified Investors. The information provided in this material is for information purpose only and does not constitute an offer, a solicitation or a recommendation to contract a financial instrument or a financial service. This document does not constitute implicit or explicit investment advice. The information provided herein is general in nature and does not constitute an advertisement of financial products in Switzerland.

United Kingdom: This communication is directed only at investment professionals and any investment or investment activity to which it relates is available only to such persons. Manulife Investment Management (Europe) Ltd. is authorized and regulated by the Financial Conduct Authority.

European Economic Area: The data and information presented is directed solely at persons who are Professional Investors in accordance with the Markets in Financial Instruments Directive (2004/39/EC) as transposed into the relevant jurisdiction. Further, the information and data presented does not constitute, and is not intended to constitute, "marketing" as defined in the Alternative Investment Fund Managers Directive. Manulife Investment Management (Ireland) Ltd. is authorized and regulated by the Central Bank of Ireland.

United States: Manulife Investment Management (US) LLC (Manulife IM US) and Manulife Investment Management (North America) Limited (Manulife IM NA) are indirect wholly owned subsidiaries of Manulife. John Hancock Investment Management LLC and Manulife Investment Management (US) LLC are affiliated SEC-registered investment advisors using the brand name John Hancock Investment Management. This material is not intended to be, nor shall it be interpreted or construed as, a recommendation or providing advice, impartial or otherwise.

5066988