

## **25th Credit Suisse Asian Investment Conference**

Loh Boon Chye, Chief Executive Officer

23 March 2022

Singapore Exchange

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# Who we are



# International multi-asset exchange group

Headquartered in AAA-rated Singapore, we are an international multi-asset exchange focused on expanding the strengths of our platform and services for our clients

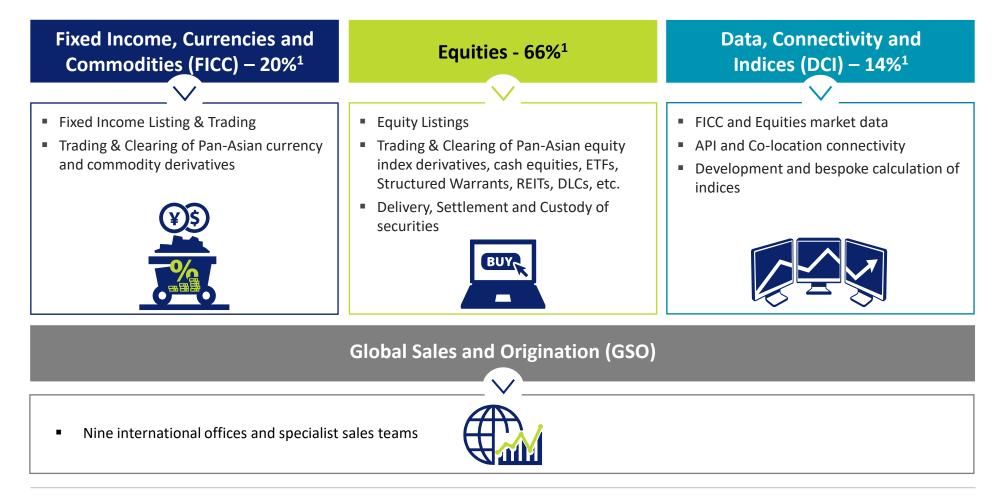
- Asia's most international, multi-asset exchange Operating equity, fixed income, currency and commodity markets
- Diversified exchange group with a global distribution network present in 15 major cities<sup>1</sup> globally
- High Operating and EBITDA margins of 50% and 59% respectively in FY2021
- EPS of 41.6 cents and Operating cash flow of 51.7 cents per share
- Total dividend of 32.0 cents per share
- Systemically Important Financial Infrastructure (SIFI)



Rated Aa2, highest credit rating assigned to any exchange group in the world by Moody's<sup>2</sup> Re-affirms the strong credit fundamentals of SGX and clearing houses, and reinforces our risk management value-proposition to customers

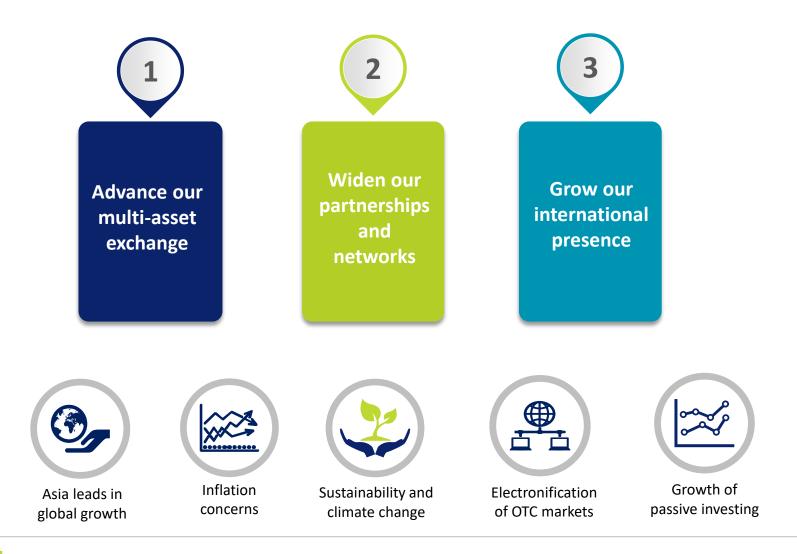
# Four business and client units

Four business and client units covering the entire exchange value chain from listing, trading, clearing, post-trade, depository and data services





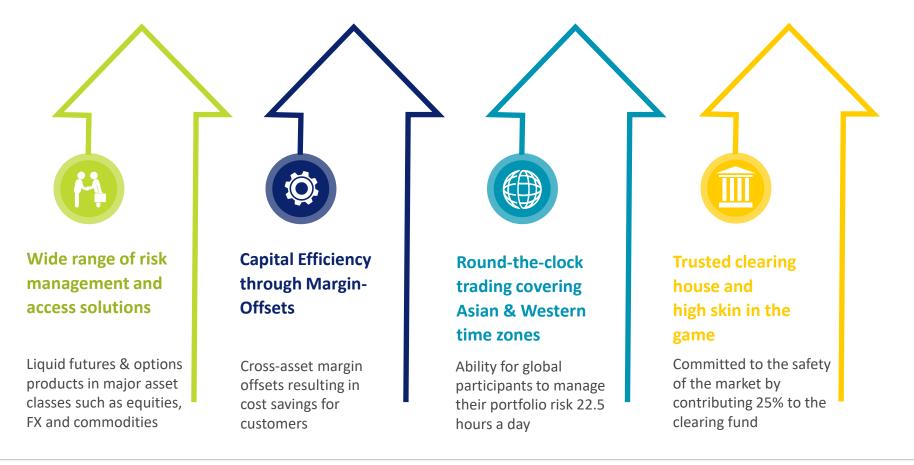
# SGX's strategy captures opportunities from macro trends





## **Our strengths as a multi-asset marketplace**

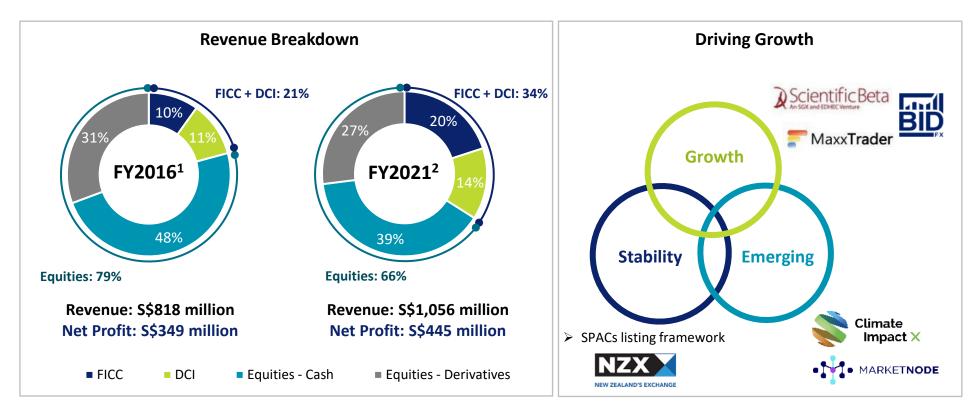
- Drive network and portfolio effects
- Strong support from our ecosystem of participants





## SGX occupies an investment 'sweet spot'

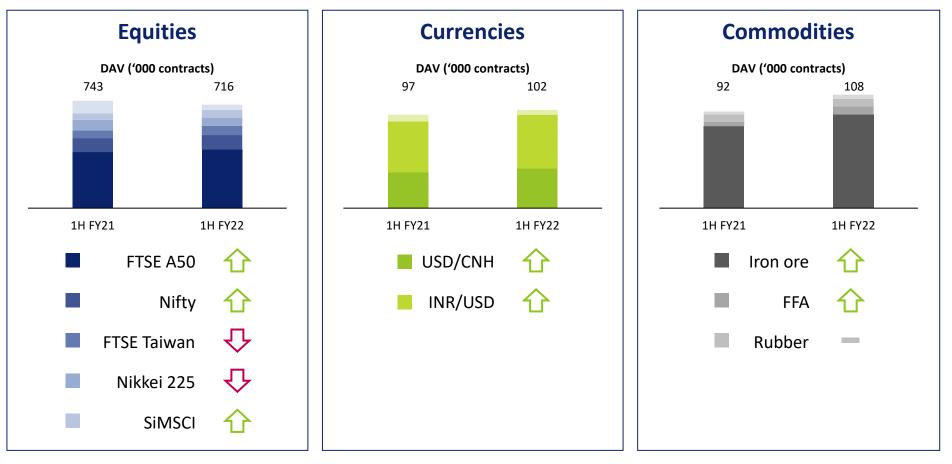
- Diversified Revenue Streams
- FICC and DCI accounted for 34% of total revenue for FY2021, up from 21% for FY2016
- Combination of strong <u>core</u> businesses, exciting <u>growth</u> engines and <u>emerging</u> opportunities





# SGX's comprehensive derivatives platform enables investors to navigate an uncertain macroeconomic environment

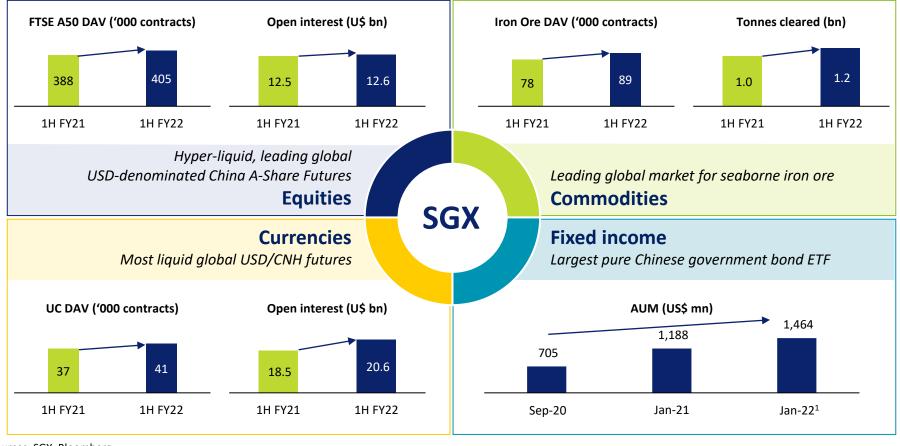
 SGX provides round-the clock liquidity for investors navigating, amongst others, the evolving COVID-19 pandemic, sell-off in technology stocks and Fed interest rate policy





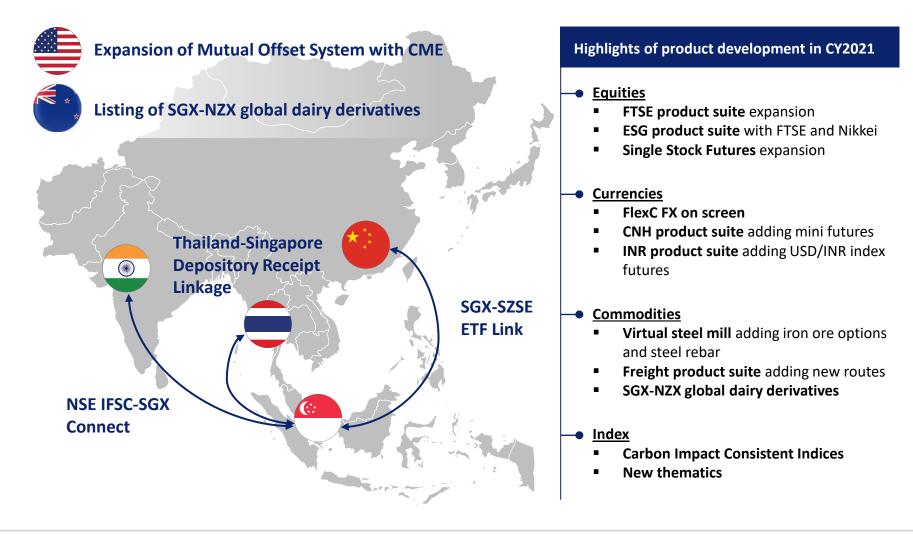
# SGX's suite of China access products allows investors to participate in emerging market and global growth

Recognising our strength as a multi-asset platform, our customers increased their activity on key China
access products



Sources: SGX, Bloomberg <sup>1</sup> Up to 31 January 2022

## SGX will continue to expand its leading platform and market reach to meet evolving customer demand

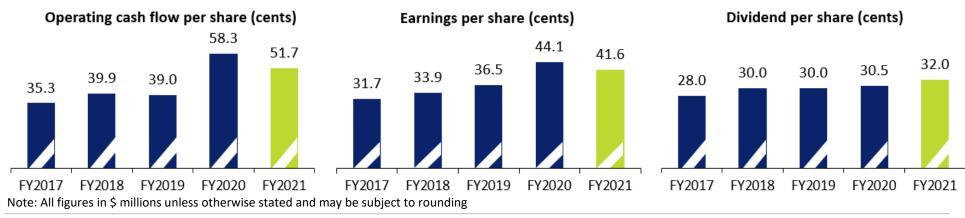




# **Robust financials**

- Track record of delivering growth and shareholder returns
- Capacity to further invest and grow given our strong balance sheet, healthy leverage ratios, and strong cash flows

	FY2017	FY2018	FY2019	FY2020	FY2021
Revenue (\$ million)	801	845	910	1,053	1,056
EBITDA (\$ million)	460	486	524	656 <sup>1</sup>	625 <sup>1</sup>
EBITDA margin	57%	58%	58%	62%	59%
Operating profit (\$ million)	402	425	461	566	531
Operating profit margin	50%	50%	51%	54%	50%
Net profit (\$ million) attributable to SGX	340	363	391	472	445
Gross Debt to EBITDA (x) <sup>2</sup>	-	-	-	0.6	0.9





<sup>1</sup> Adoption of SFRS(I) 16 Leases: Rental expenses relating operating leases for data centers and office premises are now recorded as depreciation expense and finance charges <sup>2</sup> Gross debt include both borrowings and lease liabilities. Including MaxxTrader, which is expected to close in FY2022, gross debt to EBITDA will be ~1.1x 11

## Fixed Income, Currencies and Commodities (FICC)



# Driving the digitalisation of fixed income capital markets across issuance, custody, depository and trading





## Largest and fastest growing currency futures exchange in Asia

Size of Market

- Largest financial market globally with US\$6.6 trillion traded OTC daily
- Asian NDFs is a US\$153 billion market that has potential to be futurised
- Regulatory trends favour shift to on-exchange clearing

Singapore

- Largest FX center in Asia Pacific, third largest globally
- US\$633 billion traded OTC daily
- Leading global trading venue for key Asian currencies

SGX



- Diverse Asian currency suite of 24 currency futures and 3 options contracts
- >82% market share in USD/CNH and > 66% market share in INR/USD
- Notional on-exchange FX ADV of US\$6.1B in CY2021
- Innovative FlexC FX futures feature

**Key SGX Highlights** 

25

**Diverse Asian** 

FX suite

Options

**Futures** 

101%

Total Volume – CAGR Nov 13 – Dec 21

# US\$11.2Bn ~US\$1.5T

Open Interest value (Dec 2021) Notional value up 5% y-o-y traded in CY2021



**Expanding Network** 

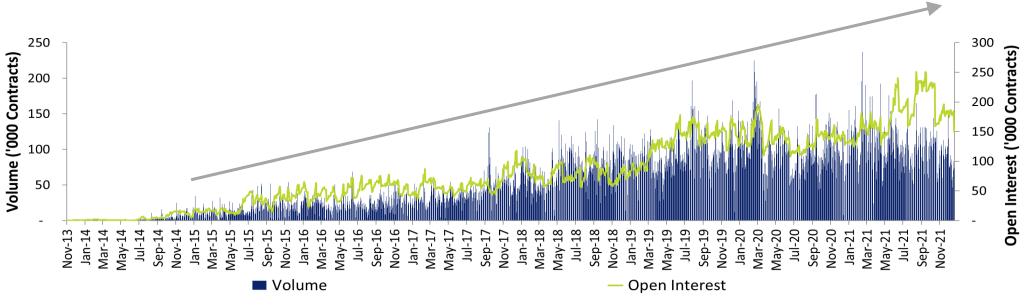
Currencies



# **Rapidly growing FX futures business**

101% volume CAGR since November 2013

SGX Currency Futures – Total Daily Volume & Open Interest



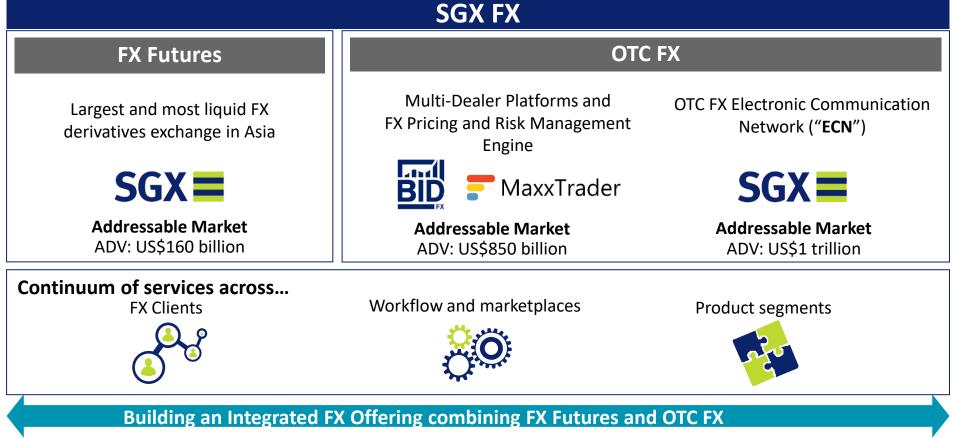
Asia's Best FX Exchange & Clearing House – by FX Week (2018 to 2021)

Best FX Exchange & Clearing House – by FX Markets (2018 to 2021)



# SGX is poised to accelerate growth and tap different liquidity pools in FX

- Total FX daily average volume (DAV) in 1H FY22 increased 46% to US\$57 billion<sup>1</sup>
- Accelerate growth in DAV by developing a primary pool of Asian FX liquidity in the Asian time zone through ECN

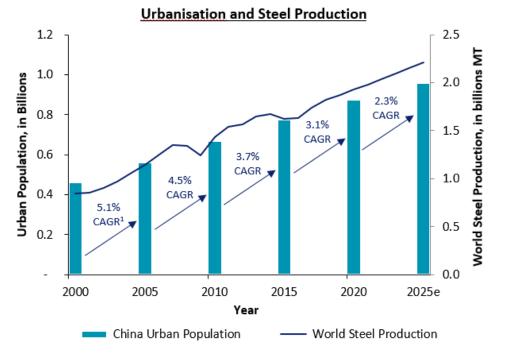


<sup>1</sup>Excluding DAV of MaxxTrader and ECN



# **Extensive Suite Of Commodities Products**

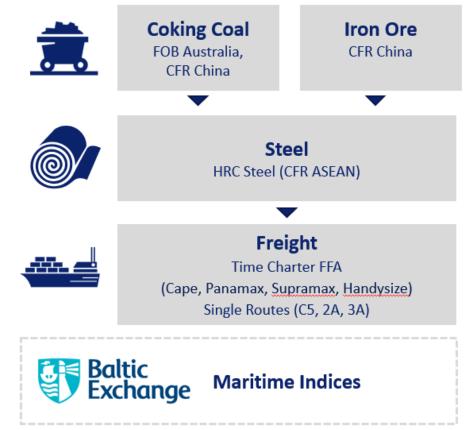
- Complements Singapore's commodities hub status
- Demand for industrial commodities set to continue amid sustained urbanisation



#### Source :

UN Population Division, <u>https://population.un.org/wup/DataQuery/</u> Steel production statistics: World Steel Association

<sup>1</sup> CAGR in chart relates to growth of China's Urban Population



#### Price-Discovery Centre For The Steel Value Chain

# The leading offshore Iron Ore risk management hub

**Size of Market** 

- Largest in the metal market by tonnage
- Notional value of >US\$115B traded annually in the physical market
- Asia's first truly global commodity, with China a major consumer
- Increasing financialisation of Iron Ore

#### Singapore

- Leading merchant hub for commodities houses with ~140 metals and mineral companies
- Include top iron producers e.g. Vale, Rio Tinto, BHP Billiton

SGX

- RE
- Global pricing and risk management centre
- Offers a complete iron ore suite: 58% Fe, 62% Fe, 65% Fe, lump Fe
- Steel value chain incorporating coking coal and freight

**Key SGX Highlights** 

2.2 billion MT

cleared in CY2021

## > 99%

market share of international iron ore volumes cleared

## Fe 65%

New high-grade Fe futures contract

**1.5x** 

of paper to physical ratio

Potential to grow



Iron

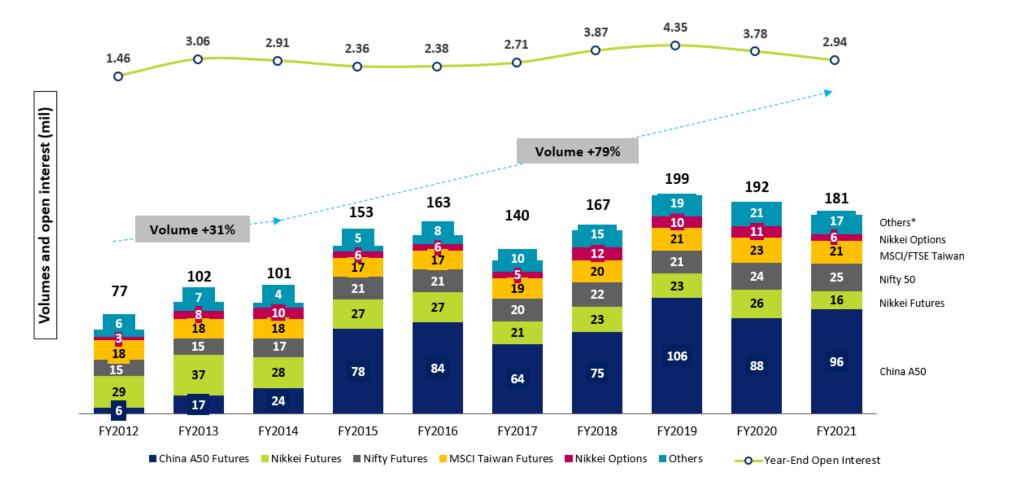
Ore

# **Equities (Derivatives and Cash)**



# **Rapidly growing offshore market for Asian Equity Derivatives**

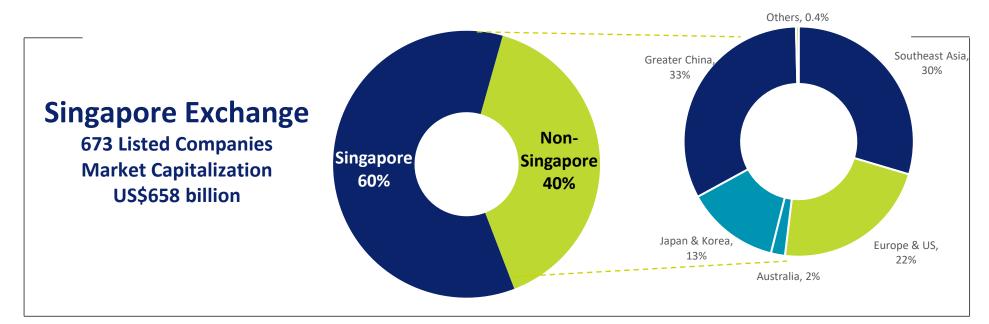
Multi-asset exchange, offering a broad range of Asian access and risk management solutions

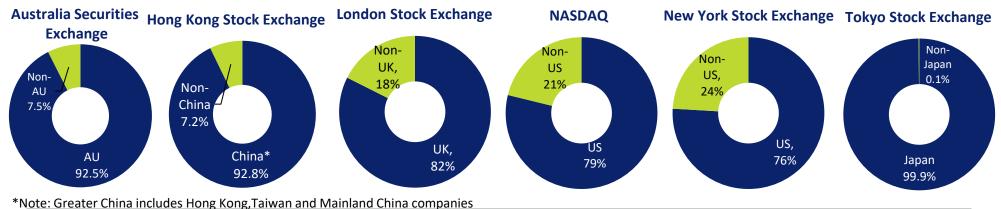




# SGX is the Most International Exchange

Around 40% of total market cap of companies listed on SGX are overseas companies





SGX Source:

# **Top Sectors on SGX**

#### Consumer

PE: 22x



- Includes food & beverage, retail and others
- 134 companies with market cap of US\$50 billion

## Technology

#### PE: 23x^

- Includes technology hardware & equipment, digital, semiconductor and telecommunications services companies. Other businesses include media, clean tech and engineering.
- 78 companies with market cap of US\$58 billion

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### Healthcare

PE: 91x



- Full range of companies from pharmaceuticals, healthcare services to medical devices technology
- 38 companies with market cap of US\$91 billion

#### Maritime, Offshore Services & Energy

PE: 11x



### Commodities



#### PE: 14x

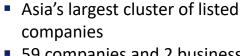
- Includes Agri-commodities, Mineral & Oil & Gas Companies
- 34 companies with market cap of US\$34 billion

#### **Real Estate**

PB: 1.0x



- Asia's broadest range of real estate companies and property trusts covering global real estate assets
- 100 real estate companies and 3 property trusts with market cap of US\$121 billion



 59 companies and 2 business trusts with market cap of US\$19 billion

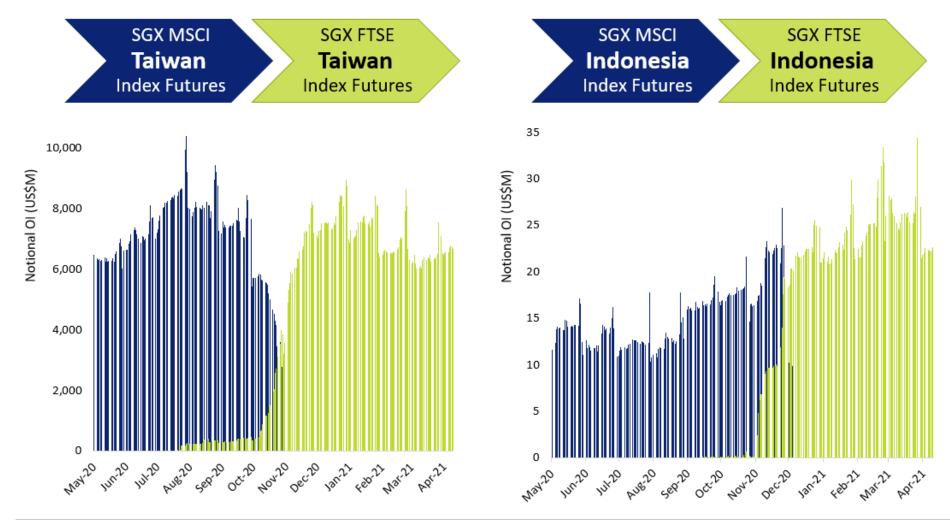


Singapore Exchange and Bloomberg (Jan 2022)

^ Excludes the PE of telecommunication services companies by GICS sub-industry classification Calculated using Market Capitalization Weighted PE Ratio.

# Successful execution of the world's first liquidity switch

Powerful network effects and portfolio effects : SGX platform, clients and intermediaries



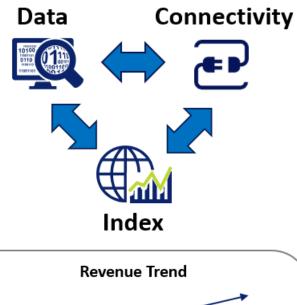


# Data, Connectivity and Indices (DCI)



# **Delivering Market Solutions to Investors**

Growth strategies reinforces across businesses





### **Enabling Market Participants**

- Highly dynamic technology driven services
- Serving participants ranging from investors, traders, data redistributors, order management system providers, network service providers, etc

### **Subscription business**

- Non-transactional, recurring revenue
- Able to achieve over 95% renewal revenue
- Stable CAGR organic growth of 4%<sup>1</sup>, or 11% with acquisition

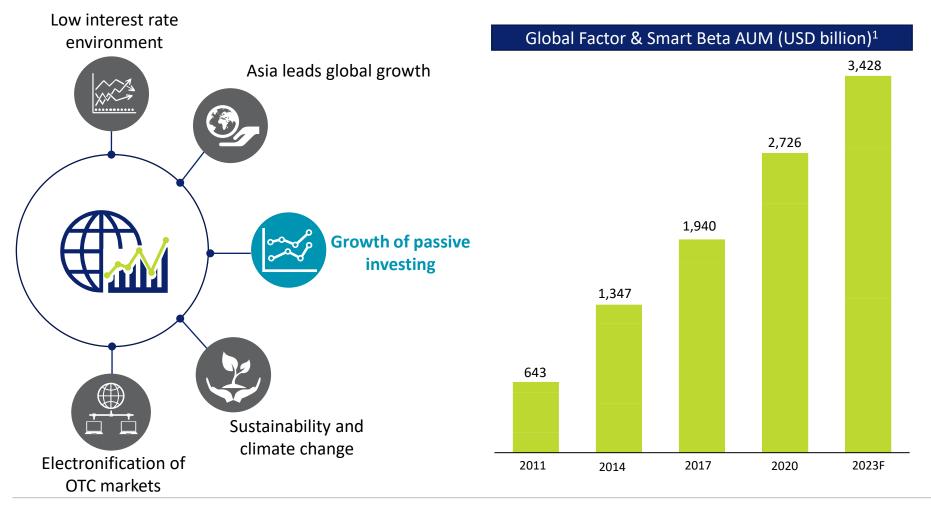
### **Content, Channel and Compute Growth Strategy**

- Equities and FICC pan-Asia relevant content
- Delivering optimal 3Cs for different investment strategies
- Continuous innovation drives new demands



# Index investing and the 'Smart Beta' market

Factor investing has seen significant growth in recent years, with assets using smart beta and factorbased strategies forecast to reach US\$3.4 trillion by 2023, and there is further room for growth



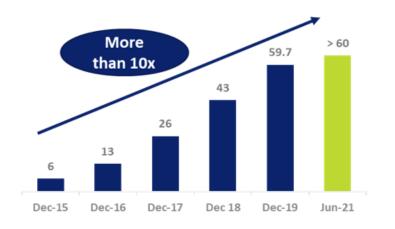


## An Attractive Opportunity To Broaden SGX's Index Offering Through The Fast-growing Smart Beta Index Space



- Established in 2012 by EDHEC-Risk Institute Asia
- Award winning 'Smart Beta' index firm which develops, produces and promotes multi- and single-factor indices
- Robust quantitative research in equity portfolio construction and risk control
- HQ in Singapore; offices in France, UK and US
- Asset owner-focused client base in Europe and North America

#### Scientific Beta Assets Under Replication (US\$ bn)



High priority growth area for SGX

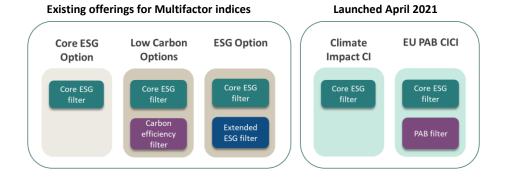
- Well-positioned in a high-growth market
- Financially attractive
  - Brings unique capabilities to our Index business
- Exciting product innovation opportunities
- Strong potential linkages with SGX's product platform



# **Scientific Beta's New Pillar of Growth**

Adding ESG/Climate solutions to Smart Beta Pillar

- Extending expertise that correspond to two major concerns for investors:
  - Smart beta, and more particularly factor investing
  - ESG, and particularly climate investing
- Since acquisition, accelerated investments in the area of climate investing as part of the SGX Sustainable Exchange strategy
- Devoting more than 40% of its R&D investment to climate investing and more than 45% of its assets under replication refer to indices with an ESG or climate flavour
- Launched Climate Impact Consistent index series in April 2021 for Asset Owners to fulfill Net-Zero impact investing commitments



#### **Smart Factor Indices**

Scientific Beta's smart factor indices provide robust exposure to long-term rewarded factors, good diversification of unrewarded risks, and ESG/Low Carbon options to enable a consistent and effective investor engagement policy.

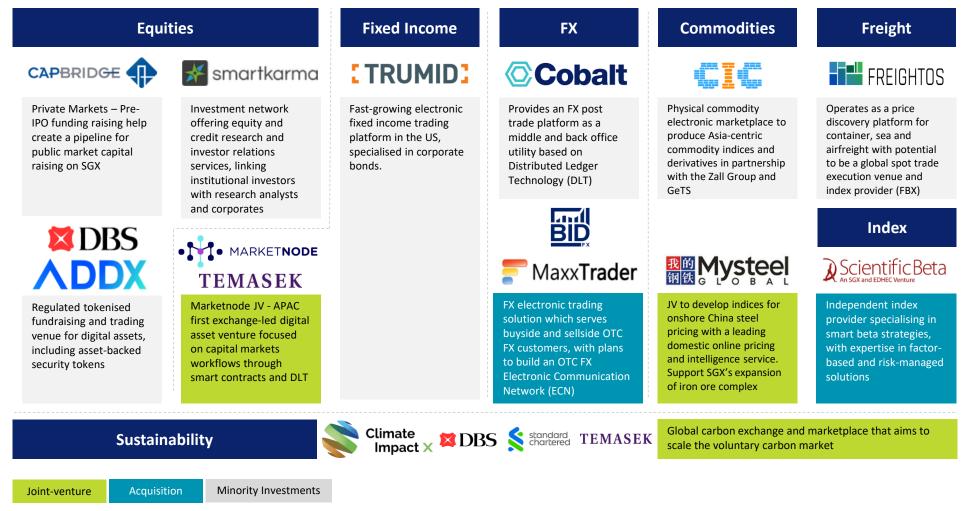
#### **ESG/Climate Indices**

Scientific Beta's indices with pure climate objectives allow climate exclusions and weightings to be combined in order to translate corporate climate alignment engagement into portfolio decisions.

# **Other Information**



## SGX's investment portfolio in financial technology, data and platforms augments our multi-asset class exchange





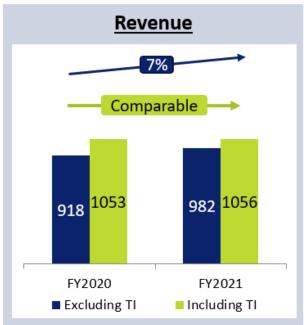
# Acquisition considerations and principles

Considerations		General Guiding Principles
sto	Strategic Fit	<ul> <li>Gain capabilities to augment current offering</li> <li>Expand and deepen client relationships</li> <li>Position SGX for fast growing business segments</li> </ul>
\$	Financial Metrics	<ul> <li>3-year pro forma revenue CAGR &gt; 10%</li> <li>Cash EPS accretive within 3 years of acquisition</li> <li>IRR &gt; SGX's WACC</li> <li>Key synergies to be fully realized within 3 years of acquisition</li> </ul>
\$	Capital Structure	<ul> <li>Maintain SGX's strong implied investment grade rating</li> </ul>
	Partnerships	<ul> <li>Majority stake preferred</li> </ul>

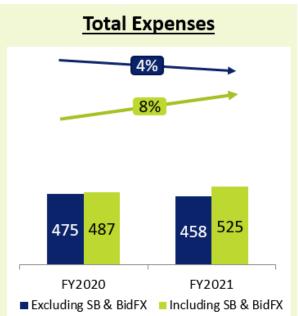


# FY2021 Highlights

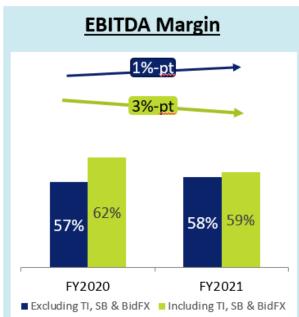
Strong underlying performance, continued investments in growth, disciplined in cost management



- ✓ Excluding Treasury Income (TI), revenue up 7% year-on-year
- ✓ Group revenue \$1.06B, comparable



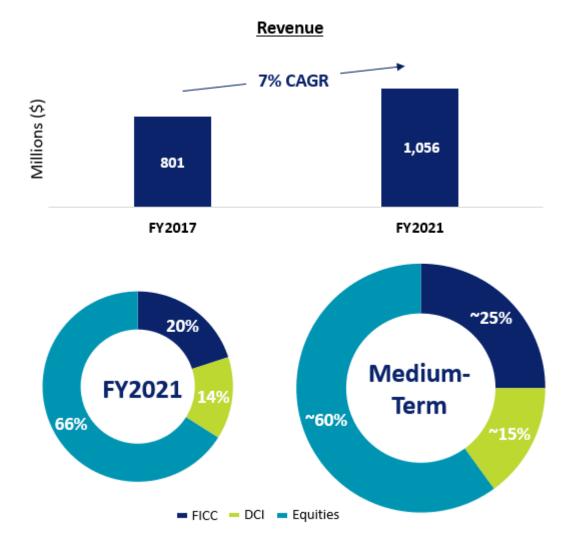
- ✓ Excluding recently-acquired SB and BidFX, total expenses declined 4% year-on-year
- ✓ Group total expenses \$525M, up 8%



- Excluding TI and recentlyacquired SB and BidFX, EBITDA margins would have increased 1%-pt
- ✓ Group EBITDA margins down 3%pts to 59%



## **Delivering Revenue Growth**

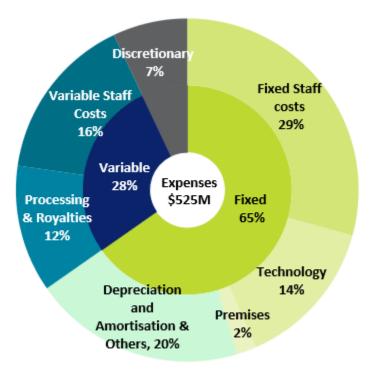


- Revenue growth of 7% CAGR historically
- Medium term Revenue CAGR<sup>1</sup> of high single-digit

- In the medium term, our revenue mix is anticipated to be FICC 25%, Equities 60%, DCI 15%
- Contribution from Scientific Beta and BidFX revenues will grow beyond their current 6%



## FY2021 Expense Breakdown

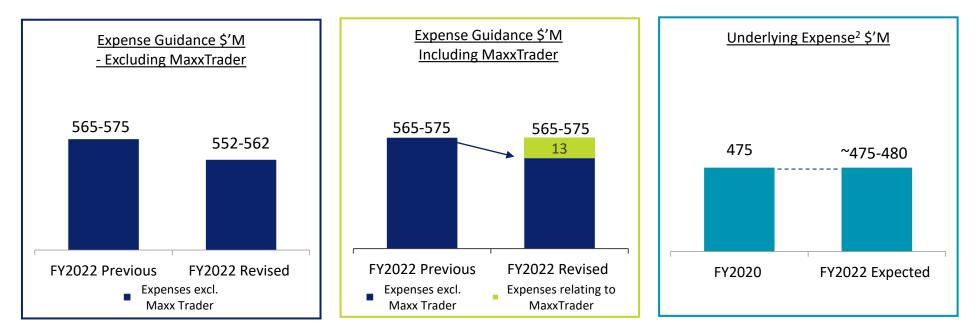


- Fixed costs 65%
- Variable costs 28%
  - Variable staff cost increase in line with profitability
  - Processing & Royalties expenses are volume-related
  - Royalties are recovered as revenues under licence fees
- Discretionary costs 7%



# Maintaining expense guidance for FY2022 even with inclusion of MaxxTrader

- Previous guidance announced at the end of 4Q FY2021 was \$565-575M, excluding MaxxTrader<sup>1</sup>
- On a like-for-like basis (i.e. excluding MaxxTrader), expected FY2022 expense is ~\$13M lower than previously guided
  - Discipline in expense management amidst inflationary pressures
  - Underlying FY2022 expense<sup>2</sup> expected to remain flat or marginally higher compared to FY2020 level



Note: All figures in \$ millions unless otherwise stated and may be subject to rounding

<sup>1</sup>We previously guided that MaxxTrader's expense will be ~\$25M on an annualized basis, which remains unchanged. The acquisition closed in January 2022

<sup>2</sup> Underlying expense exclude MaxxTrader, Scientific Beta and BidFX

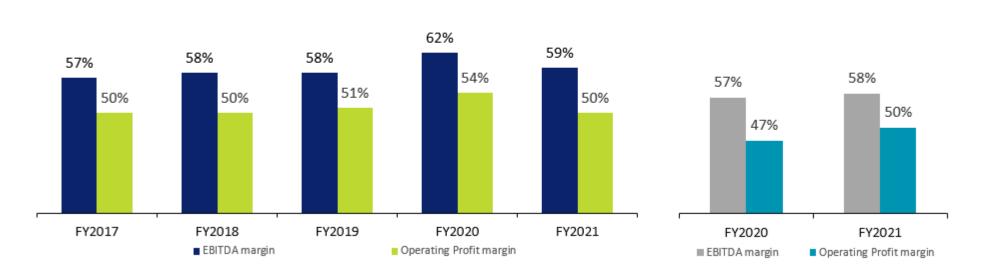


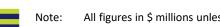
## Underlying business continues to deliver operating leverage

- Excluding Treasury Income, SB and BidFX, EBITDA and operating profit margins would have increased by 1%-pts and 2%-pts, respectively
  - FY2021 EBITDA margin of SB and BidFX combined was 37%<sup>1</sup>

EBITDA and Operating Profit margins

Overall EBITDA and operating profit margins expected to be higher in the medium term as we build scale

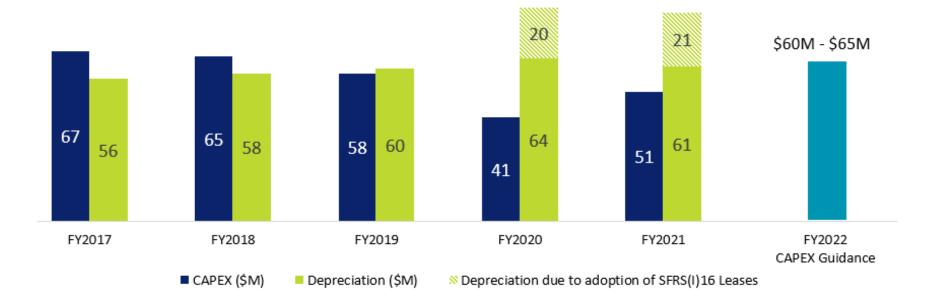




EBITDA and Operating Profit margins (Excluding TI, SB & BidFX)

# **CAPEX to support our growth ambitions**

- FY2021 CAPEX of \$51M was mainly to upgrade our Titan OTC platform, digitalise retail investor services, modernise our infrastructure, and infrastructure setup for BidFX
- FY2022 CAPEX is expected to be between \$60M-\$65M as we invest in resilience, digitalisation of our Fixed Income and FX markets, and partnership initiatives



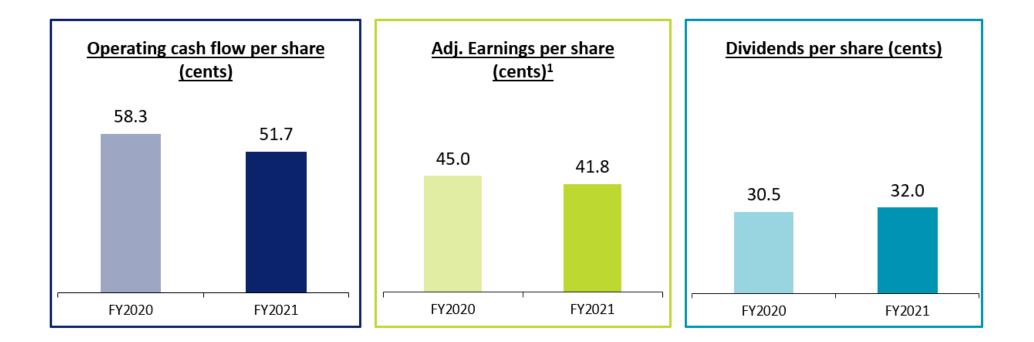
#### CAPEX and Depreciation<sup>1</sup>



Note: All figures in \$ millions unless otherwise stated and may be subject to rounding <sup>1</sup>Excludes amortization of intangible assets

### **Delivering shareholder returns**

Final quarterly dividend of 8.0 cents per share, bringing total dividend for FY2021 to 32.0 cents, an increase of 5% from FY2020





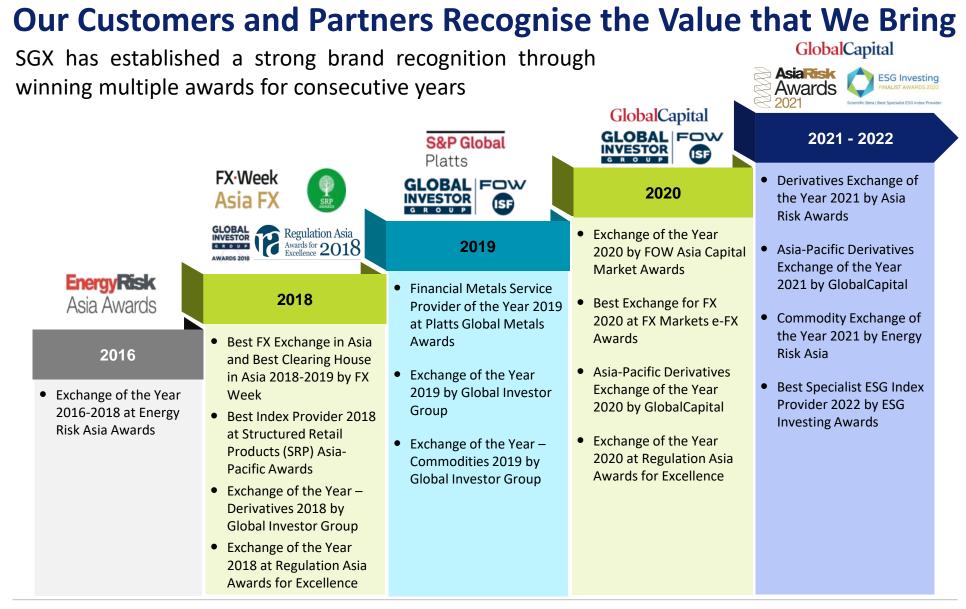
Note: All figures in \$ millions unless otherwise stated and may be subject to rounding

<sup>1</sup> Adjusted figures are non-SFRS(I) measures. Please refer to Section 8 of our financial results for reconciliations between the adjusted and their equivalent measures <sup>38</sup>

# Appendix

- Awards: Our Customers and Partners Recognise the Value that We Bring
- Sustainability
- Cross margining example
- Shareholder profile
- 1H FY2022 Update







# Our vision: A leading capital and trading hub enabling sustainable finance and credible transitions with end-to-end products, solutions and ecosystem



In the Ecosystem

Be a positive influence and foster collaboration and partnerships to provide data, tools, resources and connecting stakeholders to drive industry discussions.

# တိုကြ As a Company

Demonstrate leadership in sustainability e.g. SGX as a company will adopt TCFD from FY2021 reporting, currently setting science based targets for GHG emissions.



#### As a Business

Offer ESG solutions and support capitalizing on our assets, expertise and capabilities:

- Equity
- GSSS Bonds
- Indices (incl. Scientific Beta)
- Commodities (incl. Baltic Exchange, HeveaConnect)
- New horizon projects (Climate Impact X, new products)



Guide market on sustainabilityrelated disclosures and ensure that all investors are able to access decision-relevant data.



#### Growing sustainable and credible transition products and solutions

SGX FIRST: Future In Reshaping Sustainability Together				
Fixed Income	Equities	Indices	Commodities	Equity derivatives
<ul> <li>#1 Green Bond Listing Venue in Asia with 50% market share of Asian Issuances in the last 12 months</li> <li>Top 5 Green Bonds marketplace globally with 8% share market share</li> <li>WIP: Database and digitalization, support for sustainability linked &amp; transition bonds</li> </ul>	<ul> <li>Provision of ESG Ratings of Listcos</li> <li>Vice-Chair of TCFD &amp; future guidance</li> <li>WIP: Key reporting indicators tool, further productisation on climate, green and ESG</li> </ul>	<ul> <li>Strong thematic and proprietary capabilities</li> <li>ESG screening and low carbon/ESG/climate risk filters</li> <li>Scientific Beta ESG &amp; Climate Impact Consistent Index (CICI)</li> <li>iEdge SG ESG Leaders Index</li> <li>iEdge SG ESG Transparency Index</li> </ul>	<ul> <li>Climate Impact X: carbon exchange and market place</li> <li>Greener commodities contracts – 65% Iron Ore futures, IMO- compliant Low Sulphur Fuel Oil (LSFO) futures and Methanol derivatives</li> <li>RECs market offerings as part of the PowerSelect platform</li> <li>Baltic Exchange: Low Sulphur route pricing supporting IMO 2020 agenda</li> <li>HeveaConnect</li> </ul>	<ul> <li>Complete ESG Futures shelf in regional derivatives</li> <li>SGX FTSE Emerging ESG Index Futures</li> <li>SGX FTSE Emerging Asia ESG Index Futures</li> <li>SGX FTSE Asia ex Japan ESG Index Futures</li> <li>SGX FTSE Blossom Japan Index Futures</li> </ul>
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# Leading the way in sustainability to build a resilient future

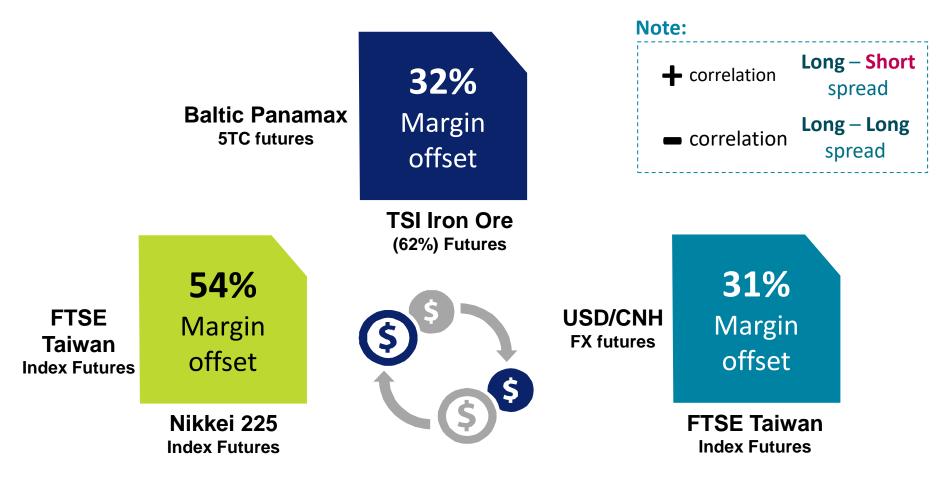
- Our sustainability vision is to be a leading capital and trading hub enabling sustainable finance and credible transitions with end-to-end products and solutions
- First Asian exchange to commit to 1.5°C-aligned science-based emission reduction targets





# **Cross margining efficiencies**

Correlated products, margin netting efficiencies





# **Cross margining example**

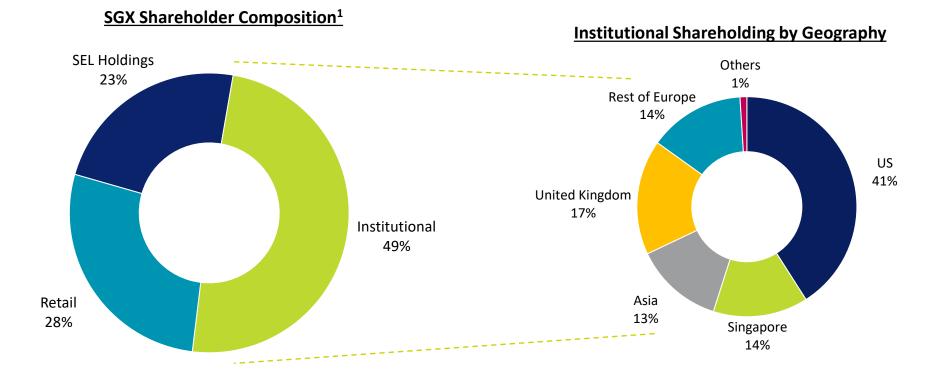
More exposure with the same amount of margins





# SGX shareholders' profile

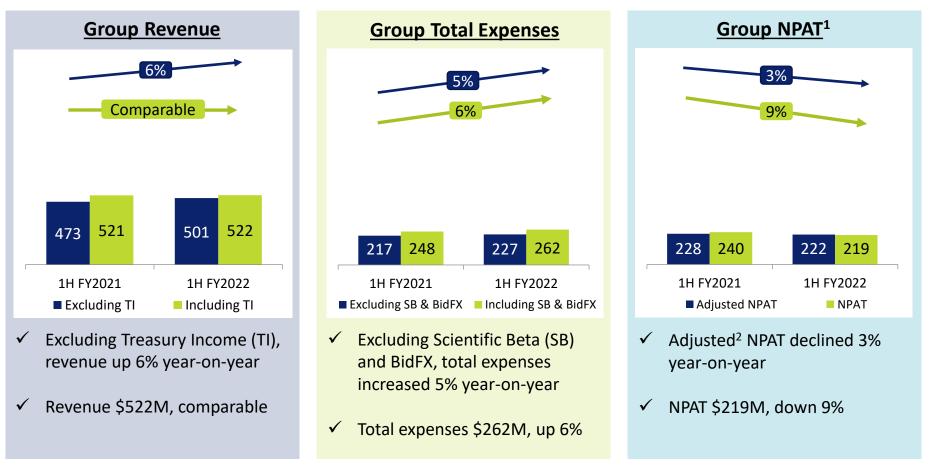
Broad shareholding base with domestic retail shareholders, as well as domestic and international institutions





## **1H FY2022 Highlights**

Continued underlying growth, disciplined in cost management



Note: All figures in \$ millions unless otherwise stated and may be subject to rounding

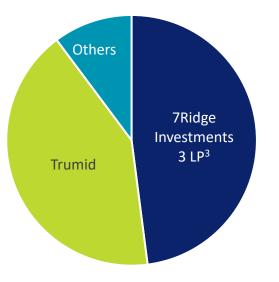
<sup>1</sup>NPAT relates to 'Net profit attributable to equity holders of the Company'

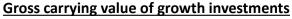
<sup>2</sup> Adjusted NPAT excludes certain non-cash and non-recurring items that have less bearing on SGX's operating performance. Hence, they better reflect the group's underlying performance. Adjusted figures are non-SFRS(I) measures. Please refer to Section 7 of our financial results for reconciliations between the adjusted and their equivalent measures

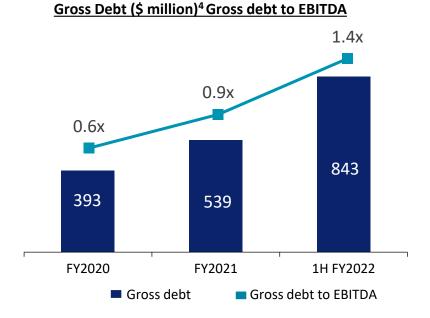


### Investing in growth while maintaining healthy leverage ratios

- We have made ~\$1B of acquisitions<sup>1</sup> and investments in last 2 years
- Besides the subsidiaries, growth investments<sup>2</sup> are held at gross carrying value of ~\$600M or ~\$0.55 per share
- Prudent use of leverage gross Debt to EBITDA ratio at 1.4x







Note: All figures may be subject to rounding

<sup>1</sup>Including MaxxTrader acquisition

<sup>2</sup> Excluding financial assets managed as part of Treasury activities

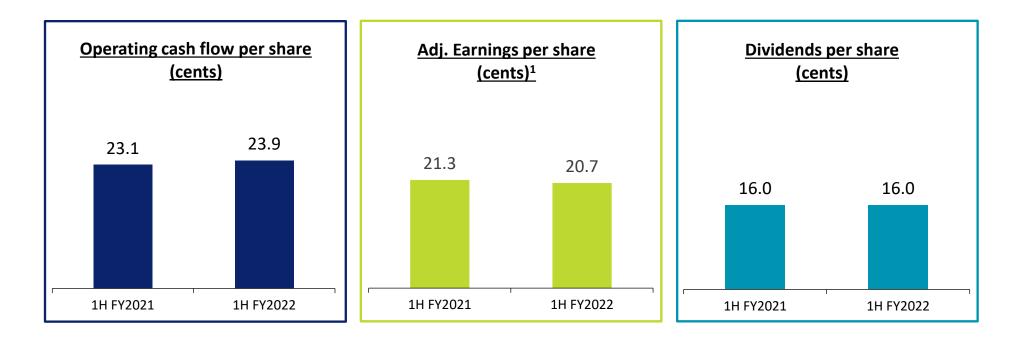
<sup>3</sup> Closed-end fund managed by 7RIDGE, that has acquired global trading software provider Trading Technologies

<sup>4</sup> Gross debt include both borrowings and lease liabilities. 1H FY2022 Gross debt to EBITDA is computed using LTM EBITDA



## **Delivering shareholder returns**

- Quarterly dividend per share of 8.0 cents per share, or 16.0 cents per share for 1H FY2022
- No plans to introduce scrip dividends in FY2022



Note: All figures in \$ millions unless otherwise stated and may be subject to rounding

<sup>1</sup> Adjusted figures are non-SFRS(I) measures. Please refer to Section 7 of our financial results for reconciliations between the adjusted and their equivalent measures





#### **Thank You**

#### **SGX Investor Relations Contact:**

Dominic Lim, Head of Investor Relations Tel: (65) 6236 5395, Email: dominic.lim@sgx.com Joyce Koh, Associate Director, Investor Relations Tel: (65) 6236 8356, Email: joyce.koh@sgx.com

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