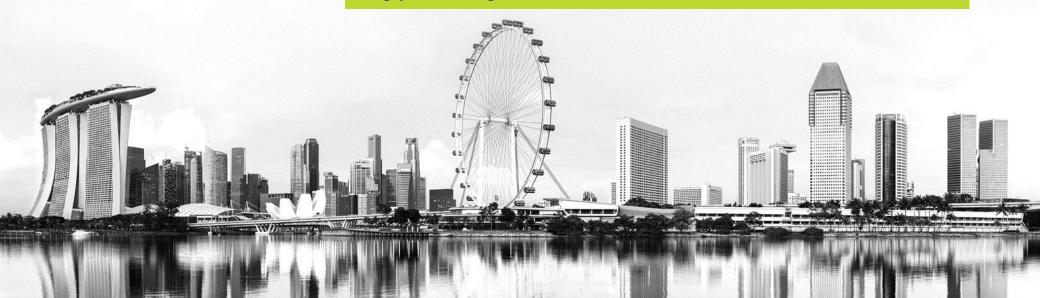


SGX-Maybank-Mizuho Corporate Day (Tokyo)

Chng Lay Chew, Chief Financial Officer

21-22 November 2017

Singapore Exchange



Who We Are

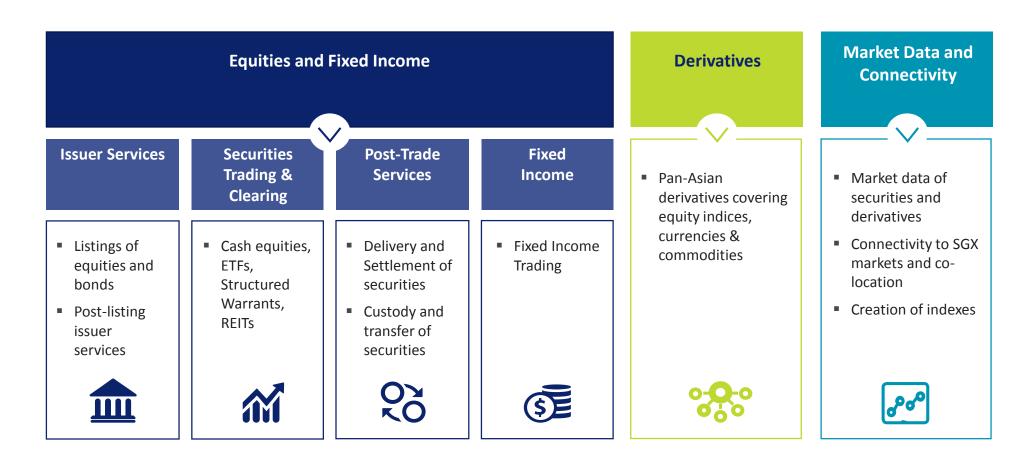
A diversified exchange group that runs key market infrastructure including the Singapore stock market and a pan-Asian derivatives exchange covering all major asset classes.





Our Business Lines

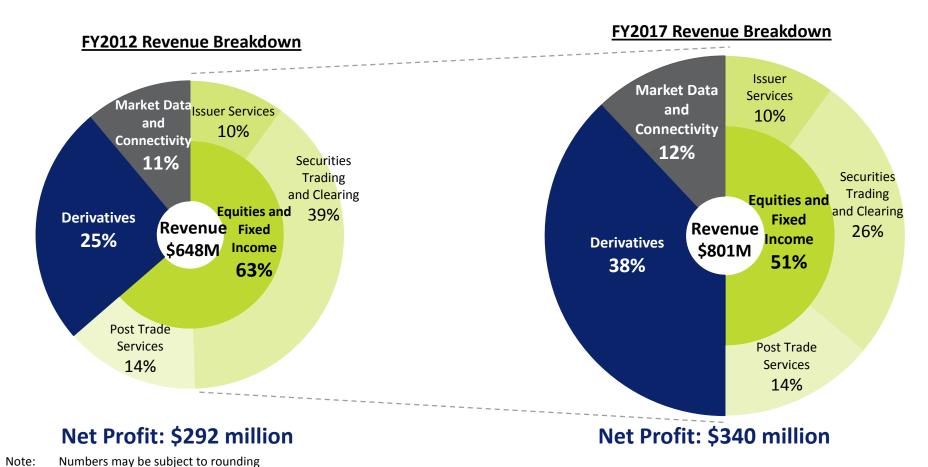
Three business units covering the entire exchange value chain, resulting in diversified and resilient revenue streams.





Revenue Breakdown by Business Lines

Successfully achieved diversification of revenues. Revenue contribution from Derivatives grew from 25% in FY2012 to 38% in FY2017.



SGX

Source: SGX. Data as of FY2017

International Footprint

Anchored in Singapore with global reach, serving a diverse set of international clients seeking Asian opportunities.

Key Clients

- **Sell-side participants -** Clearing & Trading Members and partner brokers who act as agents to clients.
- Interdealer brokers Facilitate execution of business between clients of our Members
- Corporate trade clients Use our derivative products for hedging their risks e.g. Steel Mills; Insurance firms; Oil companies ...
- Institutional investors Including funds that invest in our market for various investment needs e.g. hedging, income, growth ...
- Proprietary Trading Groups Companies that trade on markets using their own capital. Examples include market-makers and liquidity- providers.

Attained the required regulatory standards to service US and European customers

- Derivatives Clearing Organization (DCO) and Foreign Board of Trade (FBOT) from the US Commodity Futures Trading Commission (CFTC).
- Recognized by the European Securities and Markets Authority (ESMA) as a third-country central counterparty.

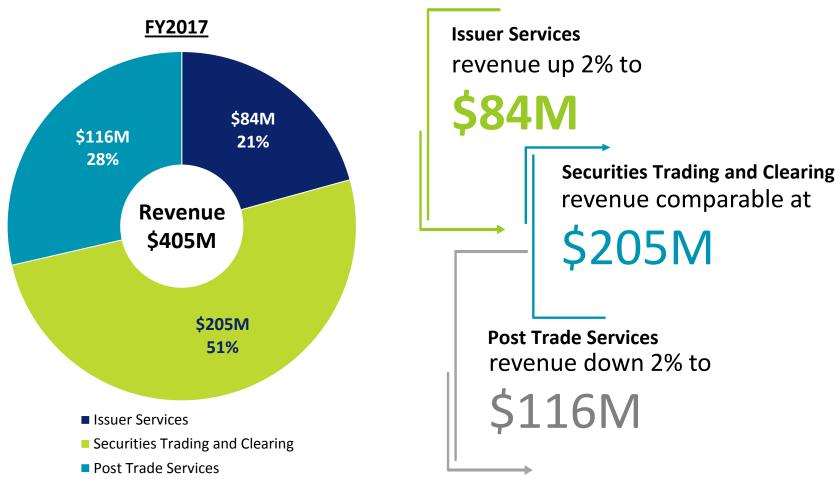


Equities & Fixed Income



Overview

Equities and Fixed Income



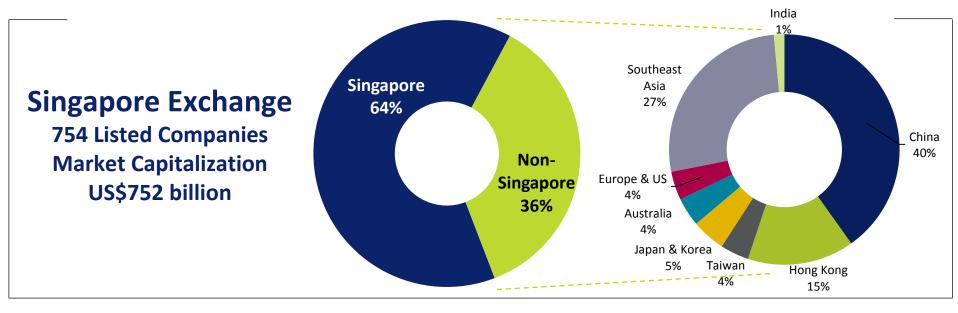
Numbers may be subject to rounding. Comparatives are based on figures for a year earlier in FY2016

Source: SGX. Data as of FY2017



SGX is the Most International Exchange

Nearly 40% of all companies listed on SGX are overseas companies.





ource: World Federation of Exchanges (Aug 2017), Companies' Website and Singapore Exchange (Sep 2017)



Top Sectors on SGX

Consumer

PE: 17x



- Includes agri-commodities, food & beverage and retail
- 150 companies with market cap of US\$107 billion

Technology

PE: 16x



- Includes information & communications technology, medical technology and financial technology
- 78 companies with market cap of US\$62 billion

Healthcare

PE: 43x



- Full range of companies from pharmaceuticals, healthcare services to medical devices technology
- 31 companies, 2 REITs and 1 Trust with market cap of US\$43 billion

Maritime & Offshore Services

PE: 22x

- Asia's largest cluster of listed companies
- 55 companies and 2 business trusts with market cap of US\$23 billion

Mineral, Oil and Gas

PB: 3.0x



- Companies in exploration, development and production of mineral or oil & gas
- 29 companies with market cap of US\$2.2 billion

Real Estate

PB: 0.95x



- Asia's broadest range of real estate companies and property trusts covering global real estate assets
- 107 real estate companies and property trusts with market cap of US\$144 billion

ource: Bloomberg & Singapore Exchange (Sep 2017)



Growing Listings And Trading Activities

Higher funds raised, healthy IPO Pipeline, and Increasing Daily Trading Activity

Equity Listings

- 23 listings in FY2017, 10% higher YoY
- \$\$16.4B funds raised, 27% higher YoY

Equity Listings¹ and funds raised²



Trading Activities

- FY2017 SDAV 2% higher YoY
- STI Index up 14% YoY
- Total Market Capitalization up 13% YoY to exceed \$1 Trillion

Securities Daily Average Traded Value (SDAV)



Source: SGX 1 Equity listings include Initial Public Offerings (IPOs) and Reverse Takeovers (RTOs) | 2 Includes Placement, Rights and Warrants



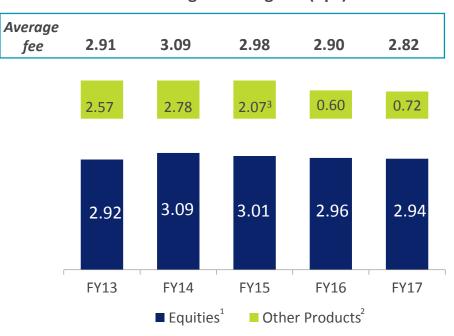
Resilient Trading in Equities

Growth in trading of securitized products

Securities Total Value Traded (\$B)

Total Traded 368.8 286.3 274.1 280.7 274.3 Value 6.9 7.8 15.5 10.7 7.0 358.1 279.3 267.4 266.4 265.2 FY13 FY14 FY15 FY16 FY17 ■ Equities¹ Other Products²

Average Clearing Fee (bps)



Note: Figures may be subject to rounding

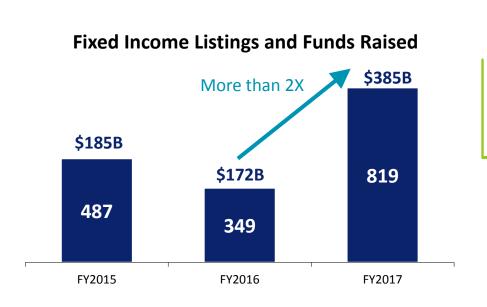
 $^{^3\,\}mbox{ln}$ January 2015, the clearing fees for Structured Warrants was revised from 3.25bp to 0.4bp



¹ Equities include ordinary shares, real-estate investment trusts, business trusts and company warrants

² Other products include structured warrants, exchange-traded funds, daily leverage certificates, debt securities, and American depository receipts

Increase In Fixed Income Listings And Market Share



G3 Asia Pac bonds share of issuance

43% in FY2017

Broadened base of new issuers

15 bond listings from Central & South America

SGX Bond Pro platform

1st Over-The-Counter trading venue dedicated to Asian bonds

Source: SGX. Data as of FY2017



Build Liquidity & Profile Companies

Continuing our efforts in increasing trading activity

Market Makers & Liquidity **Providers**

Enhance market quality and lower transaction cost



Education Outreach

Reaching out to 140,000 retail investors each quarter





Over 260,000 subscribers today





2 million online views per quarter





Connecting ~40 listed companies articles published with ~200 investors

every quarter



SGX Research

More than 30 per quarter



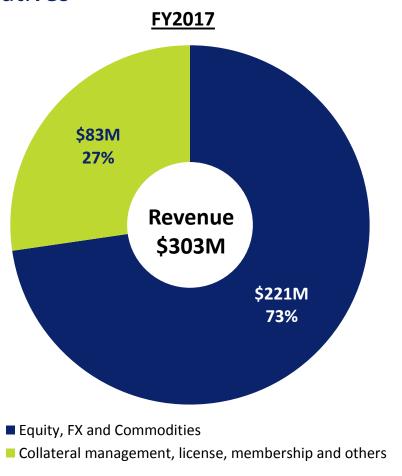


Derivatives



Overview

Derivatives



Revenue decreased 7% to

\$303M

Equity, FX and Commodities revenue down 9% to

\$221M

Collateral management, license and membership fees revenue down 2% to

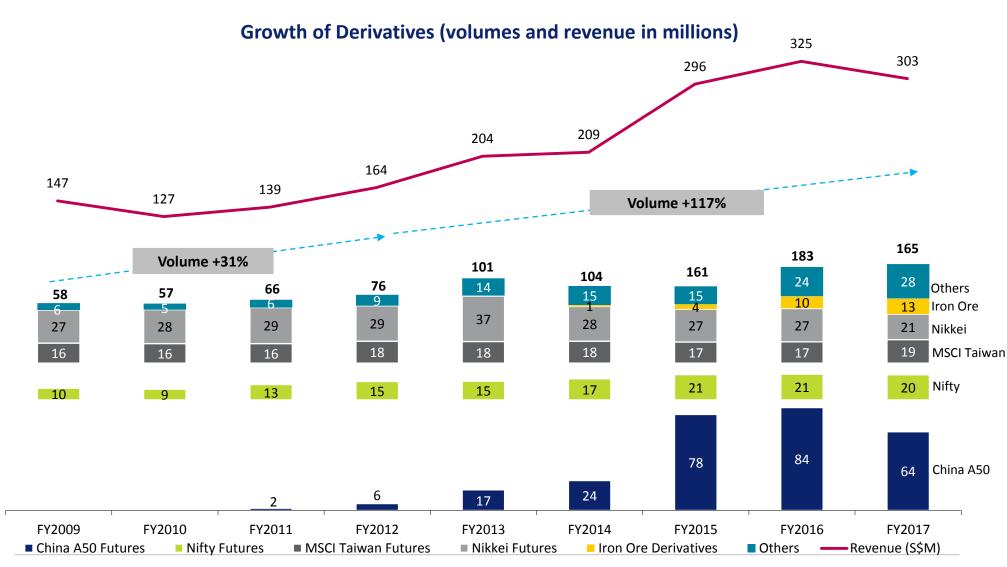
\$83M

Note: Numbers may be subject to rounding. Comparatives are based on figures for a year earlier in FY2016

Source: SGX. Data as of FY2017



World's most liquid offshore market for Asian Derivatives





The only liquid offshore access to China and India

Complementary products, margin netting efficiencies





Our Platform

- An integrated Trading and Clearing System offering low-latency high-throughput and enhanced risk controls and system safeguards
- Round-the-clock trading
- Delivering Asia's broadest range of listed derivatives across China, Japan, India, Taiwan and ASEAN
- Efficient client connectivity by putting together an ecosystem of users trading and clearing on-exchange or OTC
- Capital efficiency through the netting of margins



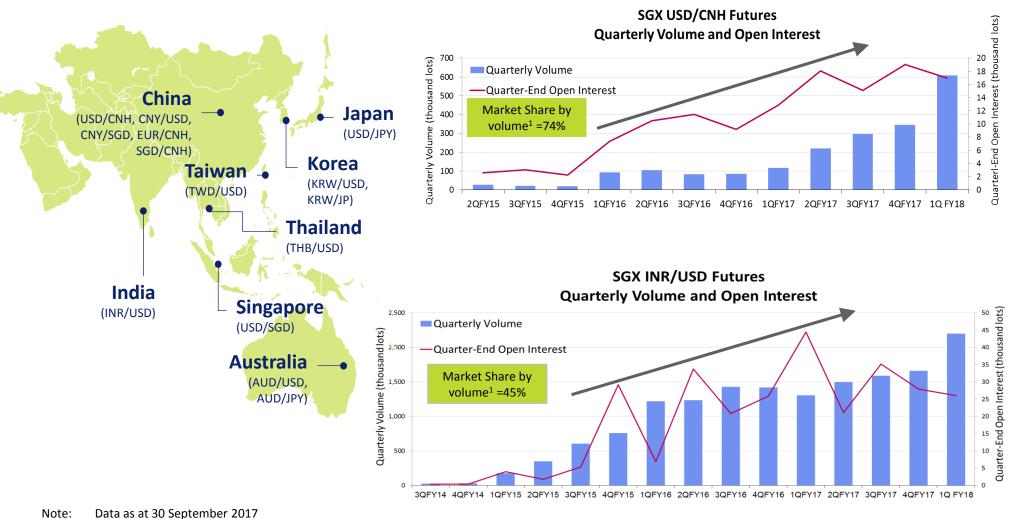
Extensive Suite Of Commodities Products

Complements Singapore's commodities hub status

Other Products In Commodity Franchise Price-Discovery Centre For The Steel Value Chain Coking Coal Iron Ore FOB Australia, **CFR China CFR China Electricity** Gold Rubber **Energy** Steel HRC Steel (CFR ASEAN) **Total Volume of Contracts Traded (M)** ■ Iron Ore futures **Freight** ■ Iron Ore options Time Charter FFA (CV, PV, SV, HV) 18 Rubber futures Single Routes (C5, 2A, 3A) 14 **Maritime Indices** FY2015 FY2017 FY2016



Liquid Currency Futures



Data as at 30 September

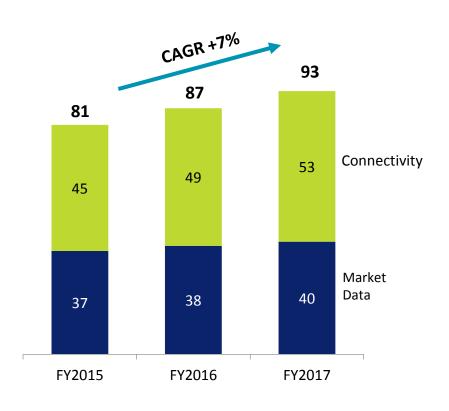


Market Data & Connectivity



Overview

Market Data And Connectivity



- Market infrastructure business driven by increased use of technology in trading
- Supports Securities and Derivatives Trading:

Data: Price data, Company

Announcements, Financial Indices

Connectivity: Trading system

connections,

Network linkages and Data center co-location

Note: Numbers may be subject to rounding.

Source: SGX. Data as of FY2017



SGX Index Edge

Serving The Growing Needs Of Index Investing

- Index business established to take advantage of global shift to index-based investing
- Global Exchange Traded Products (index-based) have AUM of > US\$4tn
- Index funds (unlisted) has grown >230% to > US\$ 6tn since 2007



Index Calculation Service

- Calculating for leading investment banks and asset managers
- Flexible index engine for calculating and disseminating wide variety of indices
- Strong governance framework to meet regulatory requirements



SGX Proprietary Indices

Domestic Indices

- SGX Thematic indices e.g. S-REIT 20
- SGX Sustainability index
- Regional Indices
 - SGX Developed Asia Quality Dividend Index
 - SGX APAC Dividend REIT



FY18 Strategic Priorities





Grow Asset Classes – Diversification

Size of Market



Singapore



SGX



FX

- US\$5.1 trillion traded daily
- Largest off-exchange (OTC)
 market globally
- Regulatory trends favour shift to on-exchange trading
- US\$500 billion traded daily
- Largest FX center in Asia
 Pacific, third largest globally
- Leading global trading venue for key Asian currencies

- 21 currency futures contracts
- >70% market share in CNH and > 40% market share in INR

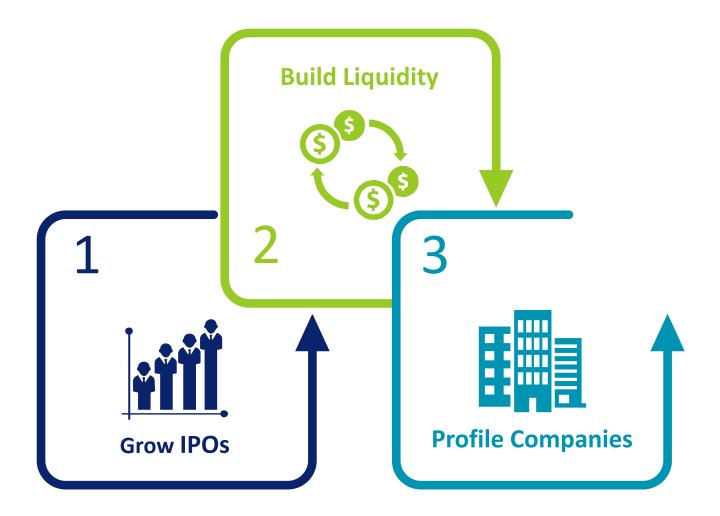
Fixed Income

- Asia (ex-Japan) bond market of US\$14 trillion
- Shift towards electronic trading

- Strong distribution network to institutional investors
- Leading listing venue with a 40% share of new G3 issuance
- Launch of SGX Bond Pro



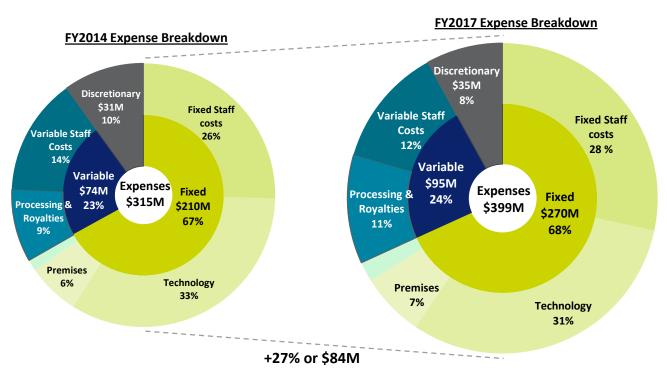
Advance our Securities Market





Expense breakdown by nature

- Investments in building capabilities, acquisitions and business growth
- Cost discipline exercised Achieved flat JAW in FY2017 compared to negative JAW of -4% in FY2016. In 1Q FY2018, positive JAW of +2%
- FY2018 expense guidance of \$425M to \$435M



- Fixed costs 68%
 Variable costs 24%
 Discretionary costs 8%
- Variable costs Processing & Royalties expenses are volume-related
- Discretionary costs Focused on distribution capabilities and client-related activities.

Note: Numbers may be subject to rounding



Looking Ahead...

- Momentum in market activity to continue
- Focus on growing new asset classes
 - Record trading volumes in FX Derivatives and strong trading activity in securitized products
 - Fixed Income business gaining traction
- Enhance our global distribution network by growing geographically
- Seek opportunities to collaborate with other exchanges
- Evaluate investments and partnerships to grow our FX, Fixed Income and Commodities businesses
- Guidance for FY2018
 - Operating expenses expected to be between \$425M and \$435M
 - Technology-related capital expenditure between \$60M and \$65M



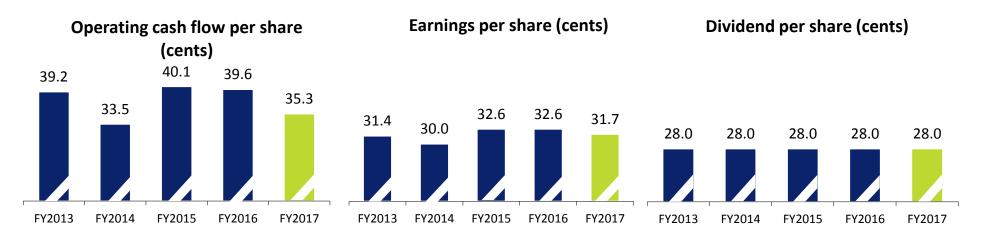


Financials



Financial Performance: Key Indicators (Recent years)

| | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 |
|-------------------------------|--------|--------|--------|--------|--------|
| Revenue (\$ million) | 714 | 686 | 779 | 818 | 801 |
| Operating profit (\$ million) | 413 | 371 | 402 | 409 | 402 |
| Operating profit margin | 58% | 54% | 52% | 50% | 50% |
| Net profit (\$ million) | 336 | 320 | 349 | 349 | 340 |
| Return on equity | 39% | 35% | 37% | 36% | 34% |
| Earnings per share (cents) | 31.4 | 30.0 | 32.6 | 32.6 | 31.7 |
| Dividend per share (cents) | 28 | 28 | 28 | 28 | 28 |



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



Disciplined Expense Management

| Organic Y-o-Y Expense Trends | | | | |
|-------------------------------|---------------------|--|--|--|
| FY2015 Organic Expense Growth | 19.7% | | | |
| FY2016 Organic Expense Growth | 8.5% | | | |
| FY2017 Organic Expense Growth | (5.5%) ¹ | | | |

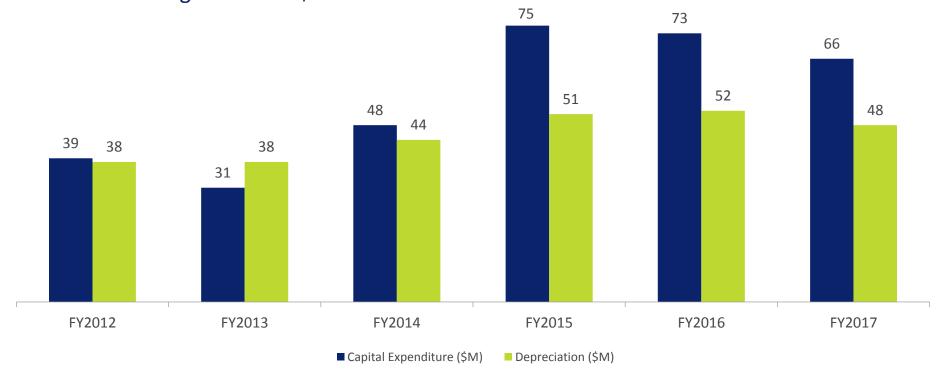
| Operating Income Margin Trends | | | | | | | |
|--------------------------------|--------|--------|--------|--|--|--|--|
| Segment | FY2015 | FY2016 | FY2017 | | | | |
| Equities and Fixed Income | 57.9% | 55.6% | 56.0% | | | | |
| Derivatives | 44.5% | 42.5% | 39.7% | | | | |
| Market Data and Connectivity | 46.3% | 52.0% | 58.9% | | | | |

¹ Excluding operating expenses relating to Baltic Exchange, which was acquired in November 2016



Technology CAPEX and Depreciation: Annual Trend

- FY2017 investments were mainly for the migration to a new secondary data centre, enhancements to our securities post-trade system, and improvements in operational resiliency.
- FY2018 CAPEX guidance of \$60-65M.

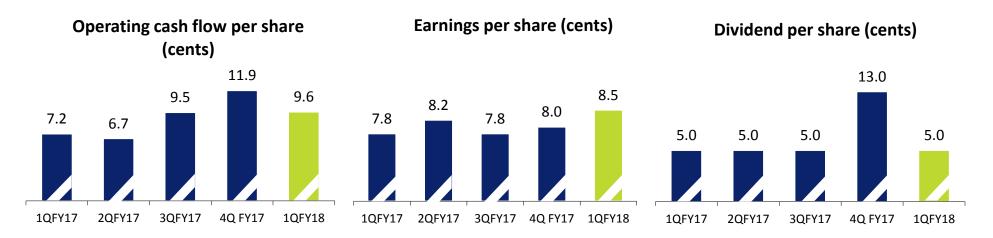


Note: All figures in \$ millions unless otherwise stated and may be subject to rounding



Financial Performance: Key Indicators (Recent quarters)

| | 1Q FY2017 | 2Q FY2017 | 3Q FY2017 | 4Q FY2017 | 1Q FY2018 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| Revenue (\$ million) | 191 | 200 | 203 | 208 | 204 |
| Operating profit (\$ million) | 97 | 102 | 103 | 99 | 106 |
| Operating profit margin | 51% | 51% | 51% | 48% | 52% |
| Net profit (\$ million) | 83 | 88 | 83 | 85 | 91 |
| Return on equity | 38% | 38% | 36% | 34% | 38% |
| Earnings per share (cents) | 7.8 | 8.2 | 7.8 | 8.0 | 8.5 |
| Dividend per share (cents) | 5 | 5 | 5 | 13 | 5 |



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



First Quarter FY2018 Highlights

Revenue

- \$204M
- Up 7%

Earnings Per Share

- 8.5 cents
- Up 9%

Expenses

- \$98M
- Up 5%

Operating Profit Margin

- **52%**
- Up 1% pt

Operating Profit

- \$106M
- Up 9%

Return On Equity

- **38%**
- Maintained

Net Profit

- \$91M
- Up 9%

Dividend Per Share

- Interim dividend5 cents per share
- Maintained

- Net profit of \$91M, up 9% from a year ago, up 6% quarter-on-quarter
- Positive JAW of 2% → Revenue up 7%, Operating expenses up 5%.
- Operating profit margin \rightarrow 52%, Earnings per Share 8.5 cents, Dividend per share 5 cents

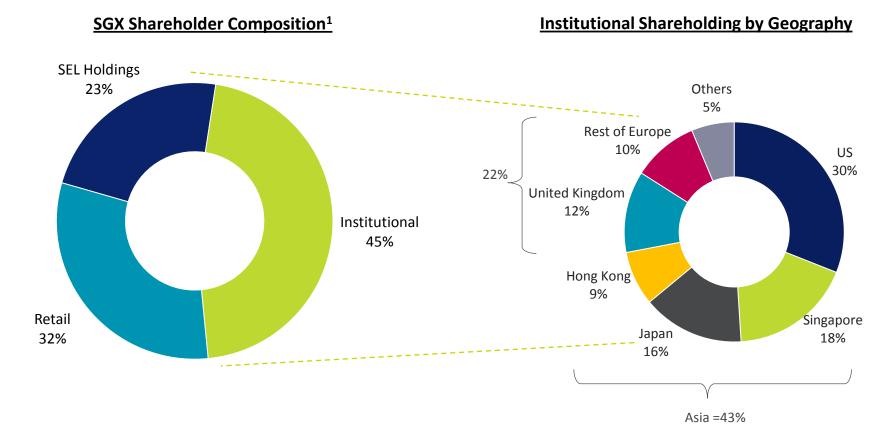


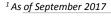
Appendix



SGX Shareholders' Profile

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





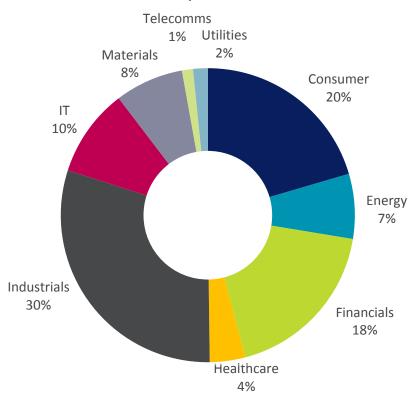


Diversity of Industries on SGX

SGX is the listing venue of choice for companies from varying sectors

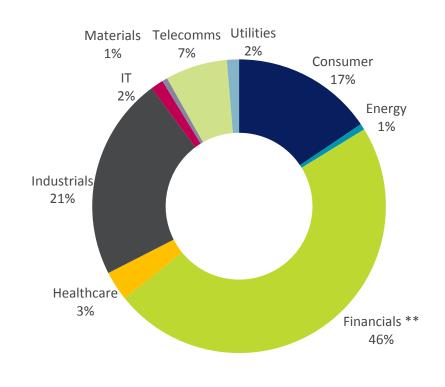
Breakdown by Number of Companies

754 companies in total



Breakdown by Market Capitalisation

US\$752 billion in total



Note:

Source: Singapore Exchange & Bloomberg (Sep 2017)

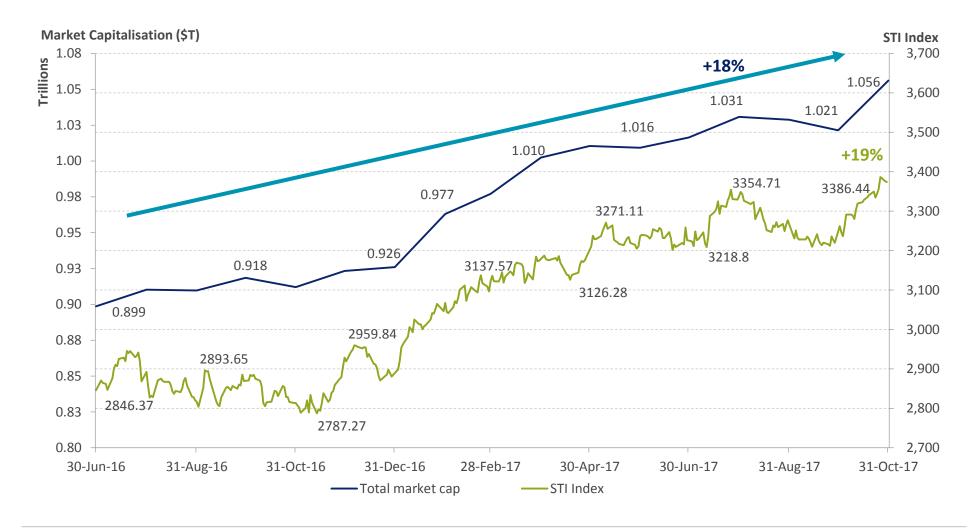


^{*} Real Estate accounts for 14% of the 754 companies

^{**} Real Estate accounts for 19% of the total market capitalisation of US\$752B

Growth of Market Capitalization & STI Index

Overall market capitalization grew 18% since 30 June 2016. STI Index rose 19% over the same period.

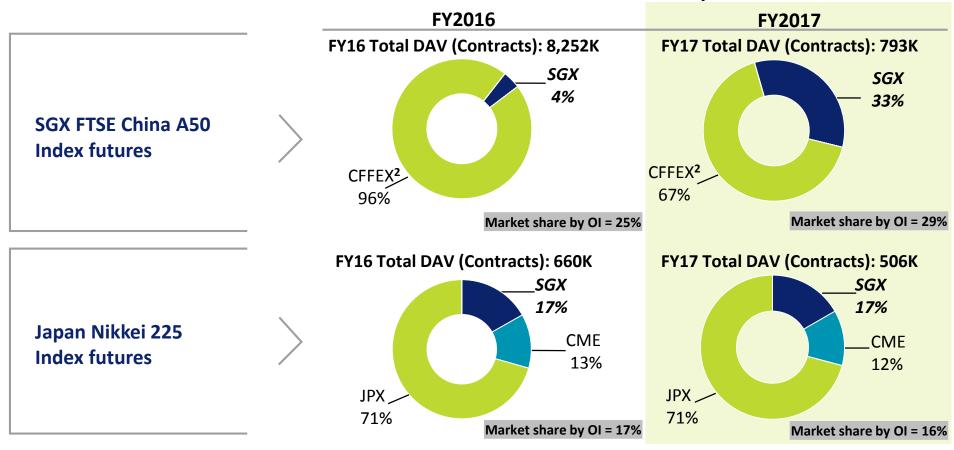




Derivatives – Equities Volume Market Share

- Volume market share in key contracts growing or maintained
- Market share by Open Interest(OI) comparable or higher year-on-year

Volume Market Share of Key Contracts¹





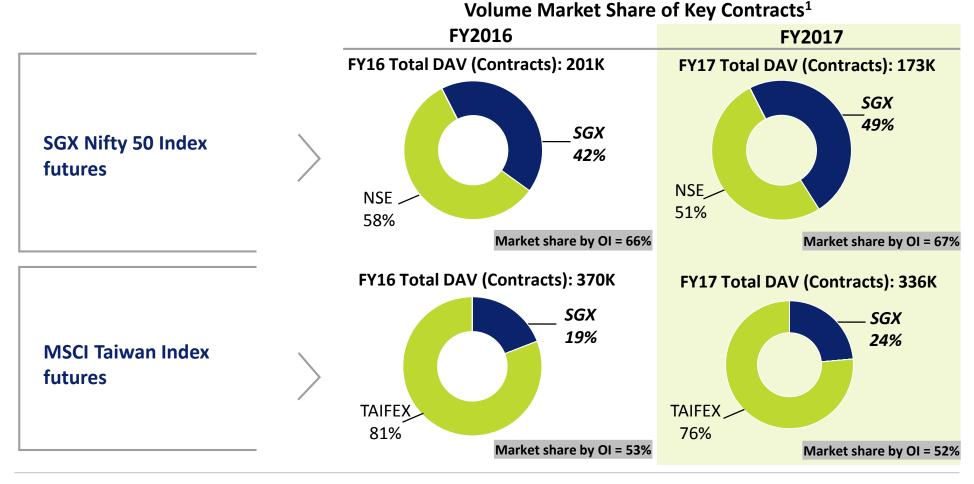
Note: All figures in \$ millions unless otherwise stated and may be subject to rounding

² CFFEX contracts include CSI300, CSI500 and SSE50.

¹ Contracts of other exchanges have been adjusted to reflect the contract size of SGX contracts.

Derivatives – Equities Volume Market Share

- Volume market share in key contracts growing or maintained
- Market share by Open Interest(OI) comparable or higher year-on-year







Thank You

Singapore Exchange
Beijing • Hong Kong • London • Mumbai • Shanghai • Singapore • Tokyo

sgx.com

Forward Looking Statements

This presentation may contain forward-looking statements that involve assumptions, risks and uncertainties. Statements in this presentation that are not historical facts are statements of future expectations with respect to the financial conditions, results of operations and businesses, and related plans and objectives. These forward-looking statements are based on SGX's current intentions, plans, expectations, assumptions and views about future events and are subject to risks, uncertainties and other factors, many of which are outside SGX's control. Because actual results, performance or events could differ materially from SGX's current intentions, plans, expectations, views and assumptions about the future, such forward-looking statements are not, and should not be construed as a representation as to future performance of SGX. It should be noted that the actual performance of SGX may vary significantly from such statements.

This presentation is being made available to certain authorised recipients for their general information only.

While SGX and its affiliates have taken reasonable care to ensure the accuracy and completeness of the information provided in this presentation, they will not be liable for any loss or damage of any kind (whether direct, indirect or consequential losses or other economic loss of any kind) suffered due to any omission, error, inaccuracy, incompleteness, or otherwise, any reliance on such information. Neither SGX nor any of its affiliates shall be liable for the content of information provided by or quoted from third parties. Examples provided are for illustrative purposes only. The information in this presentation is subject to change without notice.

Any recirculation, transmission or distribution of this presentation or any part thereof by any third party requires the prior written permission of SGX. SGX and its affiliates disclaim all responsibility and liability arising in connection with any unauthorised recirculation, transmission or distribution of this presentation or any part thereof.

© Singapore Exchange Limited