

## **Credit Suisse Asian Investment Conference 2019**

**Chng Lay Chew, Chief Financial Officer Dominic Lim, Head of Investor Relations** 

25-26 March 2019

**Singapore Exchange** 



# Who we are



# Diversified, multi-asset exchange group

We are a diversified, multi-asset exchange group that runs key market infrastructures including the Singapore securities market and a pan-Asian derivatives exchange covering all major asset classes.

Derivatives Exchange of the Year
Asia Risk Awards 2018

Exchange of the Year
Energy Risk Asia Awards 2018

Best Index Provider, Asia Pacific SRP's Asia-Pacific Awards 2018

Financial Metals Service Provider
of the Year

Platts Global Metals Awards 2017

Asia Exchange of the Year
Structured Products Awards 2017

- Strong cash flow and high operating margin of 51%
- High dividends of 30 cents per share in FY2018 with payout ratio of 88%
- Return on equity of 39%
- Most liquid international market for pan-Asian listed derivatives
- Most international exchange in Asia with 45% cross-border listings



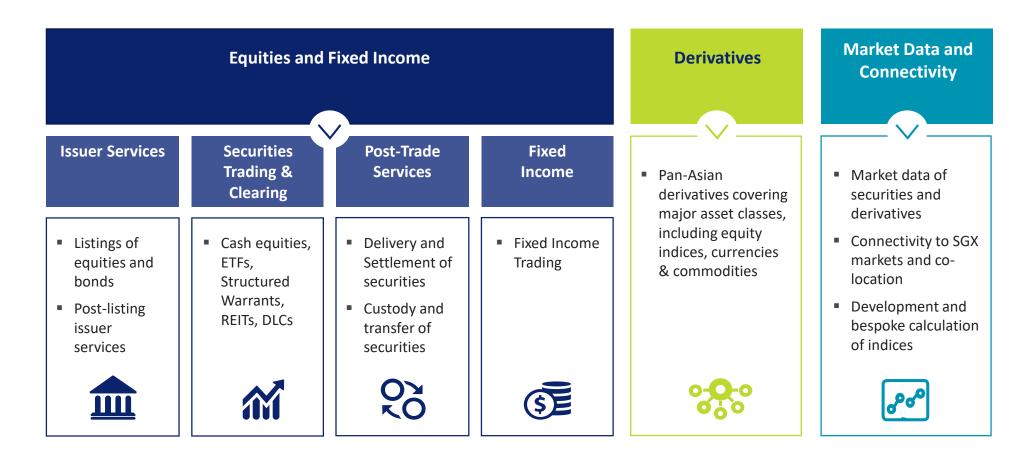
Anchored in Singapore, Asia's only AAA-rated economy

Reputation for good corporate governance, infrastructure, regulation and strength of the broader advisory ecosystem



## 3 Main Business Lines

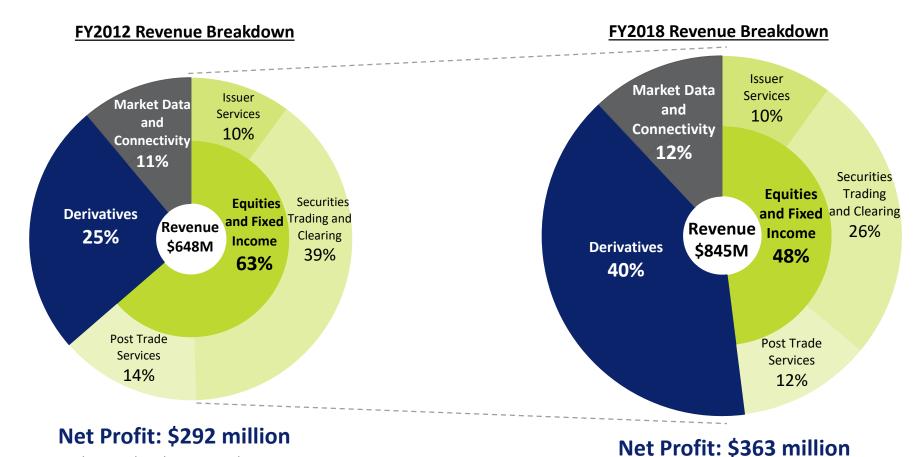
Three business units covering the entire exchange value chain, resulting in diversified and resilient revenue streams.





# Successfully achieved diversification of revenues

Revenue contribution from Derivatives grew from 25% in FY2012 to 40% in FY2018. Total revenue grew 30% during the same period.



Note: Numbers may be subject to rounding

Source: SGX



# **Our international footprint**

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



#### Our offices:

Beijing	Chicago	Hong Kong	London	Mumbai
New York	San Francisco	Shanghai	Singapore	Tokyo

#### **Key roles of our International offices**

- Engage existing clients and acquire new clients to improve liquidity (Equities, Fixed Income, and Derivatives)
- Increase memberships and listing of equity and debt instruments
- Grow existing clients and acquire new clients for connectivity, data, and index licensing services
- Our key clients include: Sell-side participants, Interdealer brokers, Corporate trade clients, Institutional investors and Proprietary Trading Groups.



# **Robust Risk Management Standards**



# Adopted global Principles for Financial Market Infrastructure (PFMI) Standards

- One of the first exchanges globally to adopt the PFMI standards, and is certified as a Qualifying Central Counterparty under the Basel III framework.
- Committed to the safety of the Singapore marketplace by contributing an amount equivalent to 25% of the default fund size, one of the highest "skin in the game" among global clearing houses.



# Aligned with the required regulatory standards to service US and European customers

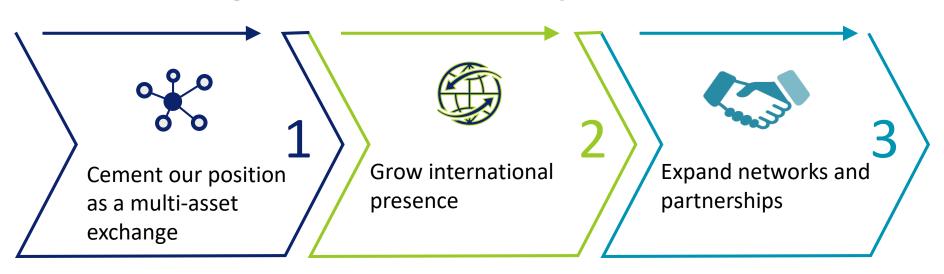
- Attained Derivatives Clearing Organization (DCO) and Foreign Board of Trade (FBOT) status from the US Commodity Futures Trading Commission (CFTC).
- Recognized by the European Securities and Markets Authority (ESMA) as a thirdcountry central counterparty.



# **Our Focus**



# **FY2019 Strategic Priorities and beyond**



- Expand FX product suite
- **Enhance Fixed-Income Trading Platform**
- Develop SGX Cargo and Freight franchise
- Strengthen overseas presence in U.S. and London
- Grow our base of buyside clients (AM, HFT & PTG)
- Enter into collaborative agreements to grow crossborder flows and enhance service capabilities





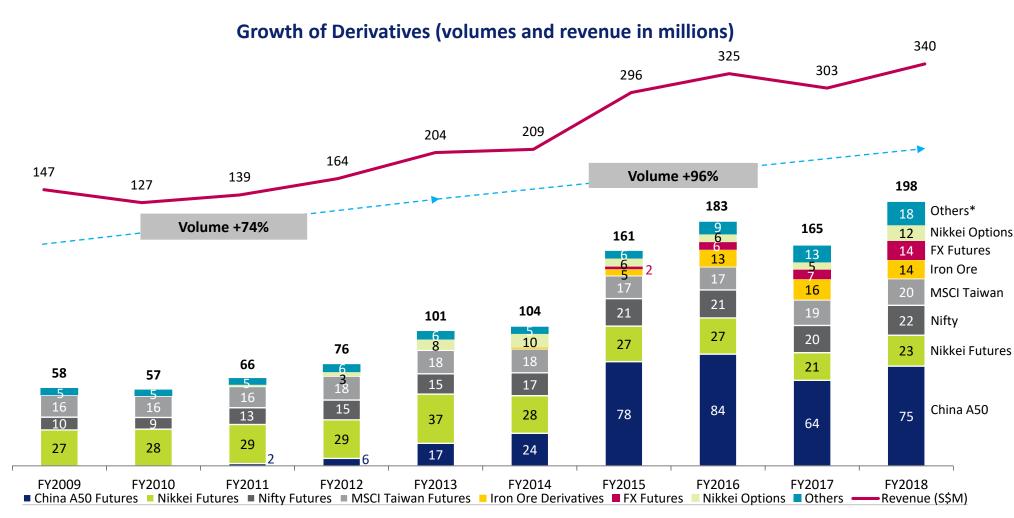






# World's most liquid offshore market for Asian Derivatives

Multi-asset Derivatives exchange, covering a broad range of liquid Asian asset classes.





# SGX's strength as a Derivatives marketplace

# Wide range of risk management and access solutions

Liquid futures & options products in major asset classes such as equities, FX and commodities

# Capital Efficiency through Margin-Offsets

Cross-asset margin offsets resulting in savings of 30% to 90%

# Round-the-clock trading covering Asian & Western time zones

Ability for global participants to manage their portfolio risk ~22 hours a day

# Trusted clearing house and high skin in the game

Committed to the safety of the market by contributing 25% to the clearing fund



# A multi-asset exchange – Commodities





#### **Singapore**



#### **SGX**



Iron Ore

- 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

- Leading merchant hub for commodities houses with ~140 metals and mineral companies
- Include top iron producers e.g. Vale, Rio Tinto, BHP Billiton
- Global pricing and risk management centre
- Cleared 1.3 billion MT of iron ore in 2018
- Offers a complete iron ore suite: 58% Fe, 62% Fe, 65% Fe and Lump Premium
- Steel value chain incorporating coking coal and freight

**Key SGX Highlights** 

1.3 billion MT

> 95%

Fe 65%

1.2x

cleared in CY2018

market share of international iron ore volumes cleared

futures contract launched in Dec 2018

of paper to physical ratio

Potential to grow



# A multi-asset exchange – FX Futures

#### Size of Market



#### **Singapore**



#### **SGX**



FX

- US\$5 trillion traded daily
- Asian NDF, excluding CNH, is a \$73 billion DAV market with the potential to be futurised
- Largest off-exchange (OTC) market globally
- Regulatory trends favour shift to on-exchange clearing

- 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 and options contracts
- >70% market share in
   USD/CNH and > 40% market
   share in INR/USD
- FlexC FX futures launched in August 2018
- Trusted venue in times of volatility

#### **Key SGX Highlights**

**19** 

2

Futures Options

Diverse Asian FX suite

> 200%

Total Volume – CAGR Nov 13 – Dec 18 >US\$5Bn

Open Interest value (Dec 2018)

~US\$1T

Notional value traded in 2018 up 108% y-o-y



# A multi-asset exchange – Fixed Income





#### **Singapore**



#### **SGX**



Fixed Income

- Asia (ex-Japan) bond market of US\$14 trillion
- Shift towards electronic trading
- Regulatory trends favour shift to on-exchange clearing
- Strong distribution network to global investor base with US\$2.4 trillion of AUM in Singapore
- US\$2T amount issued, with more than 5,000 listed bonds from over 50 countries in 20 currencies
- Launched SGX Bond Pro, an electronic platform for Bond Trading

**Key SGX Highlights** 

>5,000 bonds

~40%

~200



listed by 1,500 issuers from over 50 countries in 20 currencies

market share for listed G3 APAC bonds

Leading Bond listing exchange in Asia Pacific

Number of customer sign-ups Nov 13 – Dec 18

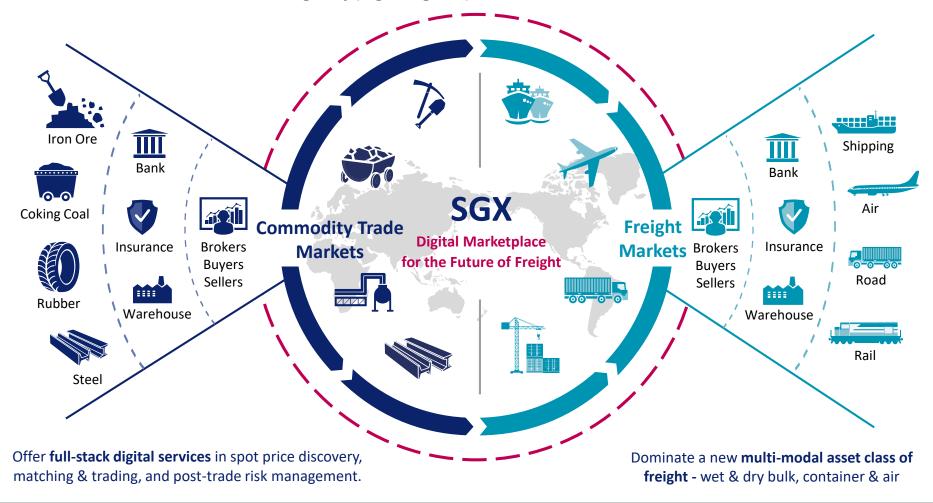
SGX Bond Pro gaining traction

**Expanding** network



# SGX is well positioned to be the Digital Freight Marketplace

Mission: Fortify The Baltic Exchange, leverage SGX cargo & freight franchise, and invest strategically (e.g. Freightos) in market infrastructure & data.





# **Financials**



# **Financial Year 2018 Highlights**

- Record Revenue of \$845M; Net profit of \$363M, at 10-year high
- Securities traded value up 12% to \$314B. Record Derivatives traded volume, up 20% to 198M contracts
- Dividend per share 30 cents, up 2 cents per share; Earnings per Share 33.9 cents

#### Revenue

- \$845M
- Up 5%

#### **Securities Trading**

- \$314B total traded value
- Up 12%

#### **Expenses**

- \$420M
- Up 5%

#### **Derivatives Trading**

- 198M contracts
- Up 20%

#### **Operating Profit**

- \$425M
- Up 6%

#### **Earnings Per Share**

- 33.9 cents
- Up 7%

#### **Net Profit**

- \$363M
- Up 7%

#### **Dividend Per Share**

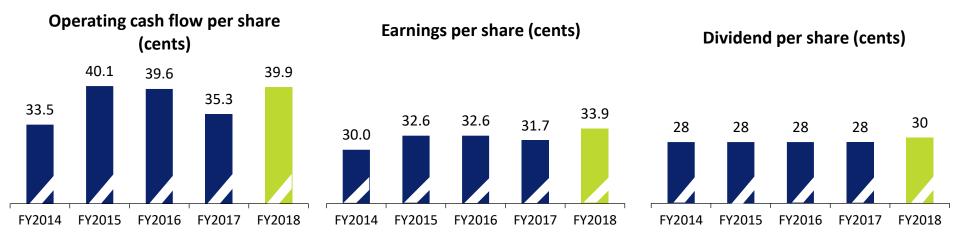
- 30 cents
- Up 2 cents



# **Key Financial Indicators (Recent years)**

- High operating profit margin of 50%
- ROE of 34%

	FY2014	FY2015	FY2016	FY2017	FY2018
Revenue (\$ million)	686	779	818	801	845
Operating profit (\$ million)	371	402	409	402	425
Operating profit margin	54%	52%	50%	50%	50%
Net profit (\$ million)	320	349	349	340	363
Return on equity	35%	37%	36%	34%	34%



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



# **Second Quarter FY2019 Highlights**

- Revenue of \$224M, up 9%; Net profit of \$97M, up 9%
- 2<sup>nd</sup> consecutive quarter of record Derivatives revenue Traded volume up 23% to a record of 60M contracts
- Securities traded value declined 13% to \$63B in line with regional markets
- Dividend per share 7.5 cents, up 2.5 cents; Earnings per share 9.0 cents

#### Revenue

- \$224M
- Up 9%

#### **Derivatives Trading**

- 60M contracts
- Up 23%

#### **Expenses**

- \$111M
- Up 8%

#### **Securities Trading**

- \$63B total traded value
- Declined 13%

#### **Operating Profit**

- \$114M
- Up 10%

#### **Earnings Per Share**

- 9.0 cents
- Up 9%

#### **Net Profit**

- \$97M
- Up 9%

#### **Dividend Per Share**

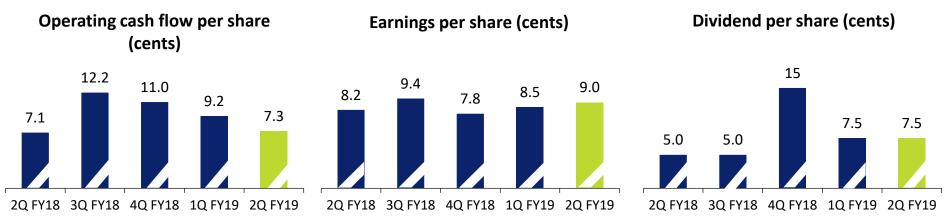
- 7.5 cents
- Up 2.5 cents



# **Key Financial Indicators (Recent quarters)**

- High operating profit margin of 51%
- High ROE of 39%
- Quarterly dividend per share of 7.5 cents per share

	2Q FY2018	3Q FY2018	4Q FY2018	1Q FY2019	2Q FY2019
Revenue (\$ million)	205	222	213	209	224
Operating profit (\$ million)	103	118	98	106	114
Operating profit margin	50%	53%	46%	51%	51%
Net profit (\$ million)	88	100	84	91	97
Return on equity	37%	37%	34%	39%	39%

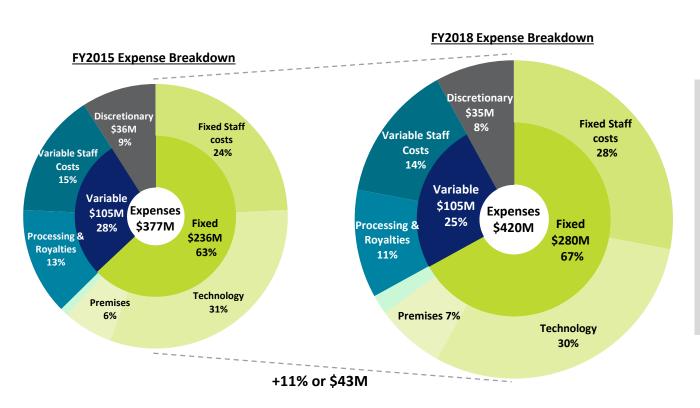


Note: All figures in \$ millions unless otherwise stated and may be subject to rounding



# Disciplined in our expenditure

- Investments in building capabilities to support growth
- FY2018 expense of \$420M, up 5% from a year ago
- FY2019 Operating Expense Guidance: \$445M to \$455M



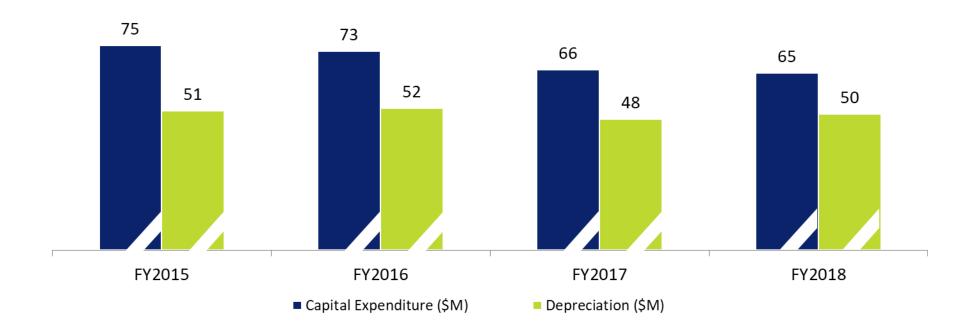
- Fixed costs 67%
   Variable costs 25%
   Discretionary costs 8%
- Variable costs Processing & Royalties expenses are volume-related
- Discretionary costs Focused on distribution capabilities and client-related activities.

Note: Numbers may be subject to rounding.



# Delivered new systems and platforms to support growth

- Invested in enhancing capabilities in Derivatives, Fixed Income and Post Trade
- FY2018 Technology CAPEX of \$65M, in line with guidance
- FY2019 CAPEX Guidance: \$60M to \$65M



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

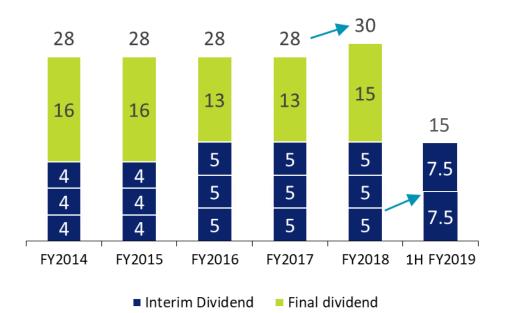


# Revised Dividend policy to support growth

Aims to provide sustainable and growing returns for shareholders

## **5 Year Dividend History**

#### Dividend per share (cents)



<sup>&</sup>lt;sup>1</sup> Previous dividend policy: For each financial year, the Board aims to pay, as dividend, an amount which is no less than (a) 80% of the annual net profit after tax; or (b) 20 cents per share, whichever is higher.



Aims to pay a sustainable and growing dividend over time, consistent with the company's long-term growth prospects. Dividends will be paid on a quarterly basis and will be at the discretion of the Board<sup>1</sup>



Provides flexibility to balance dividend payments with the need to retain earnings to support growth



In 1H FY2019, we paid a higher dividend of 7.5 cents per share each quarter, up 2.5 cents (50%) from 5 cents per share



Shareholders will receive returns earlier. Potential growth in dividends when SGX performs well

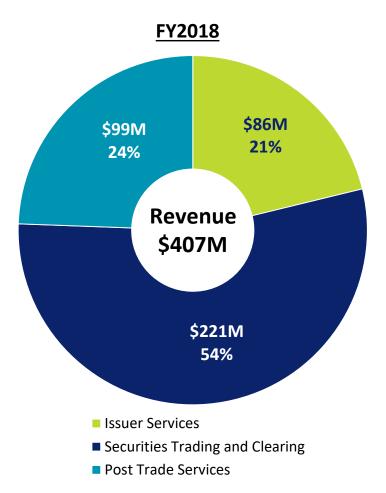


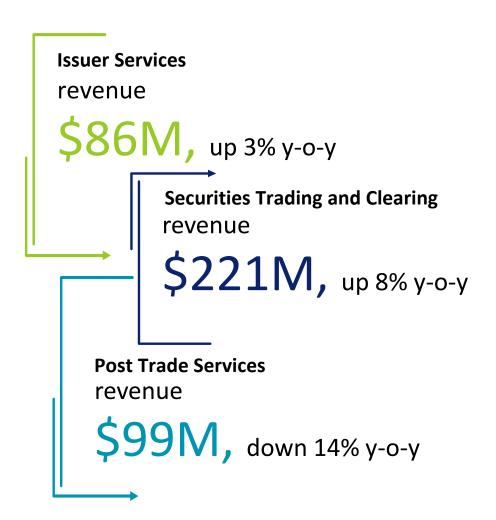
# **Equities & Fixed Income Business**



## **Overview**

### **Equities and Fixed Income**



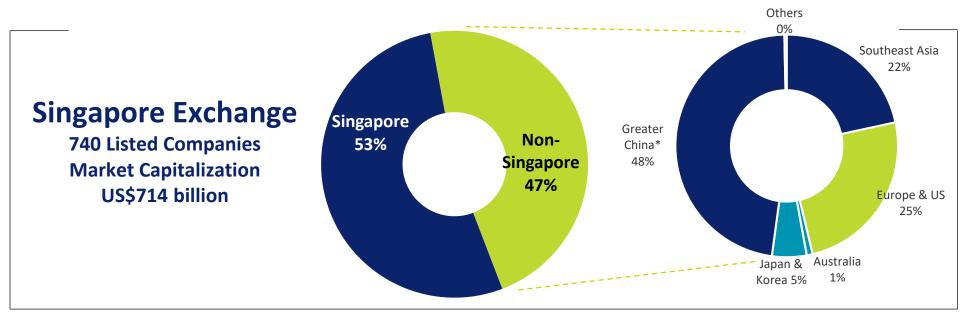


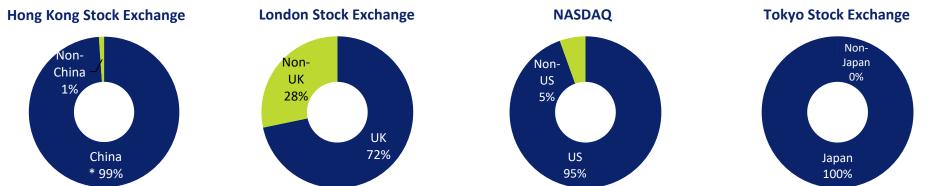
Note: Numbers may be subject to rounding.



# **SGX** is the Most International Exchange

More than 45% of total market cap of companies listed on SGX are overseas companies





\*Note: China includes Hong Kong and Mainland China companies



# Focus Sectors on SGX\*

#### Consumer

PE: 21x



- Includes agri-commodities, food & beverage and retail
- 153 companies with market cap of US\$98 billion

#### **Technology**

PE: 22x^



- Includes information & communications technology, medical technology and financial technology
- 75 companies with market cap of US\$52 billion

#### **Healthcare**

PE: 21x



- Full range of companies from pharmaceuticals, healthcare services to medical devices technology
- 35 companies, 2 REITs and 1 Trust with market cap of US\$27 billion

# Maritime & Offshore Services

PE: 14x

- Asia's largest cluster of listed companies
- 59 companies and 2 business trusts with market cap of US\$22 billion

#### Mineral, Oil and Gas

PB: 3.2x



- Companies in exploration, development and production of mineral or oil & gas
- 27 listings with market cap of US\$1.5 billion

#### **Real Estate**

PB: 0.9x



- 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\$132 billion



# **Growing Listings And Trading Activities**

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

#### **Equity Listings**

- 22 listings in FY2018, 4% lower YoY
- S\$12.6B funds raised, 3% higher YoY

# \$11.5B \$12.9B \$12.2B \$12.6B

FY17

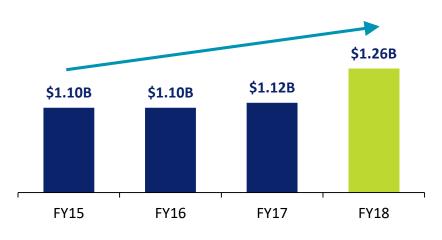
FY16

Equity Listings<sup>1</sup> and funds raised<sup>2</sup>

#### **Trading Activities**

- FY2018 SDAV 12% higher YoY
- Total Market Capitalization of \$991 Billion
- New Single-Stock DLCs introduced on 7 Nov

#### **Securities Daily Average Traded Value (SDAV)**



Source: SGX

FY15

<sup>1</sup> Equity listings include Initial Public Offerings (IPOs) and Reverse Takeovers (RTOs) | <sup>2</sup>Includes Placement, Rights and Warrants

**FY18** 



# **Build Liquidity & Profile Companies**

Continuing our efforts in increasing trading activity

Market Makers & Liquidity **Providers** 

Enhance market quality and lower transaction cost





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

More than 30 per quarter

**SGX** 

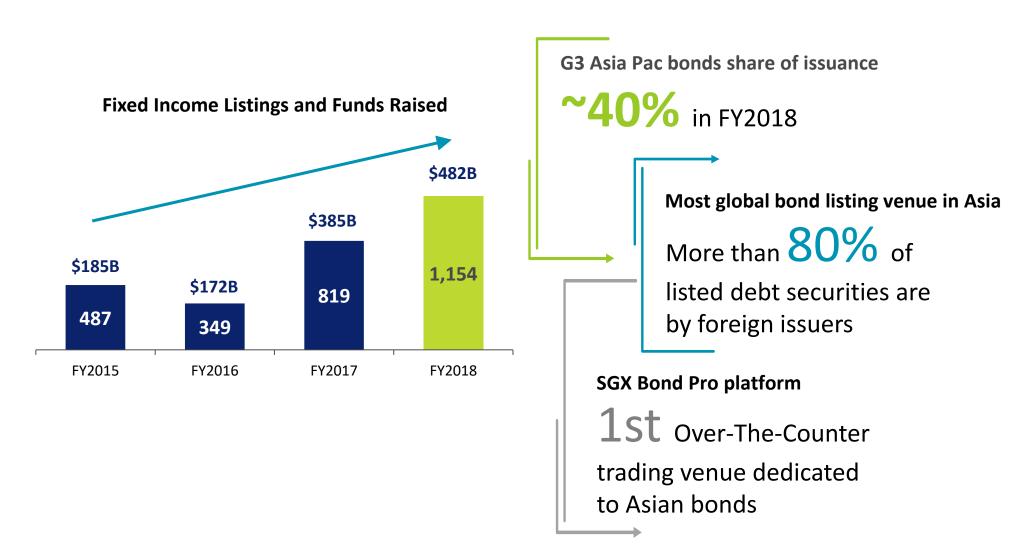
Research







# **Increase In Fixed Income Listings And Market Share**

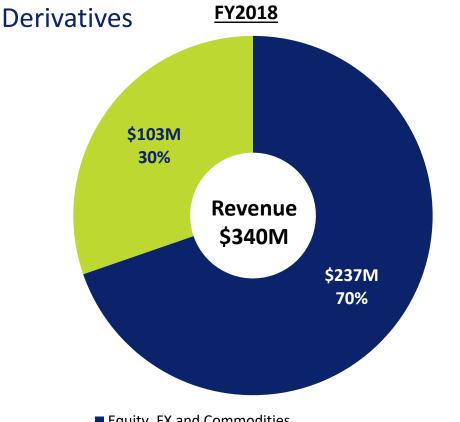




# **Derivatives Business**



# **Overview**



**Equity, FX and Commodities** 

revenue

\$237M, up 8% y-o-y

Collateral management, license and membership fees revenue

\$103M, up 24% y-o-y

- Equity, FX and Commodities
- Collateral management, membership and others



- Exchange of the Year Derivatives: FOW Asia Capital Markets Awards 2018
- Asia-Pacific Derivatives Exchange of the Year: GlobalCapital 2018

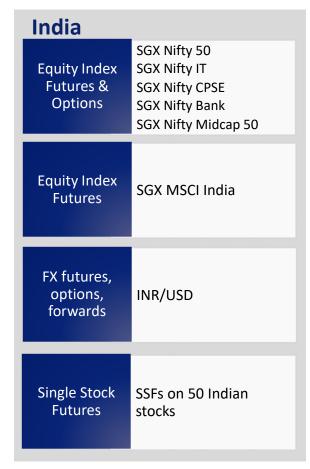
Numbers may be subject to rounding. Note:



# 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



## Suite of MSCI Net Total Return Index Futures

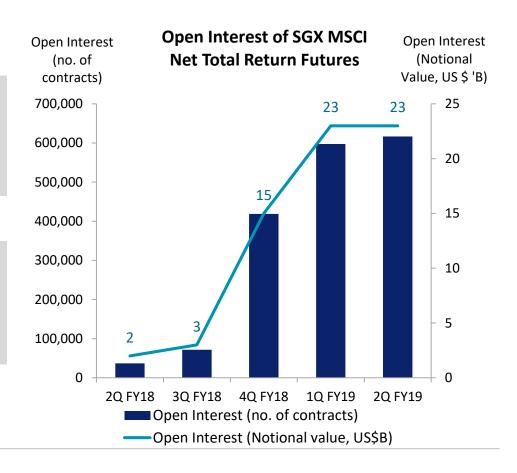
- Designed to meet increased demand for greater capital efficiency, in light of new margin requirements imposed on uncleared derivatives trades globally
- 19 SGX MSCI NTR Index Futures listed as of 2Q FY2019
- Notional open interest grew over 10X y-o-y to US\$23B, leading to higher collateral balances



SGX is the first and only exchange in Asia to offer investors with the first multi-country, multi-currency Emerging Markets (EM) net total return index futures in Asia



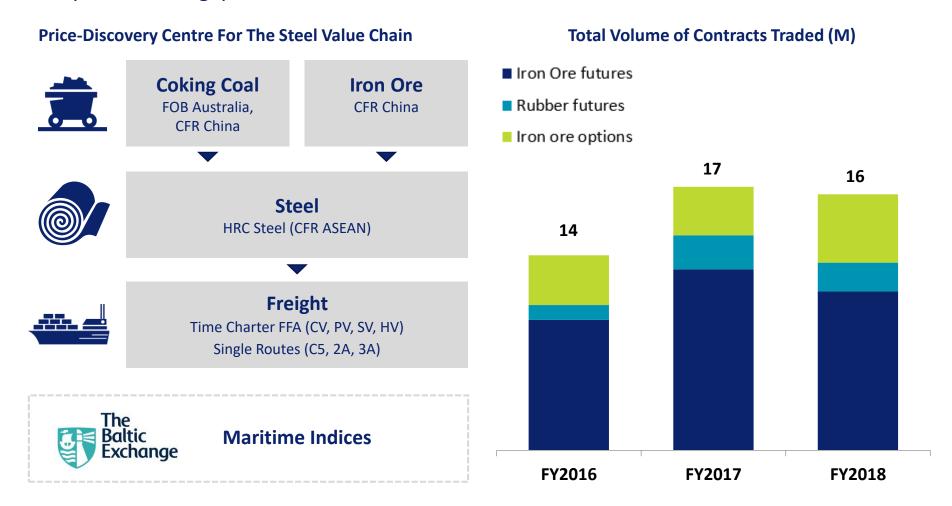
The growth of SGX's MSCI NTR product suite demonstrates the growing popularity of composite index investing in Asia.





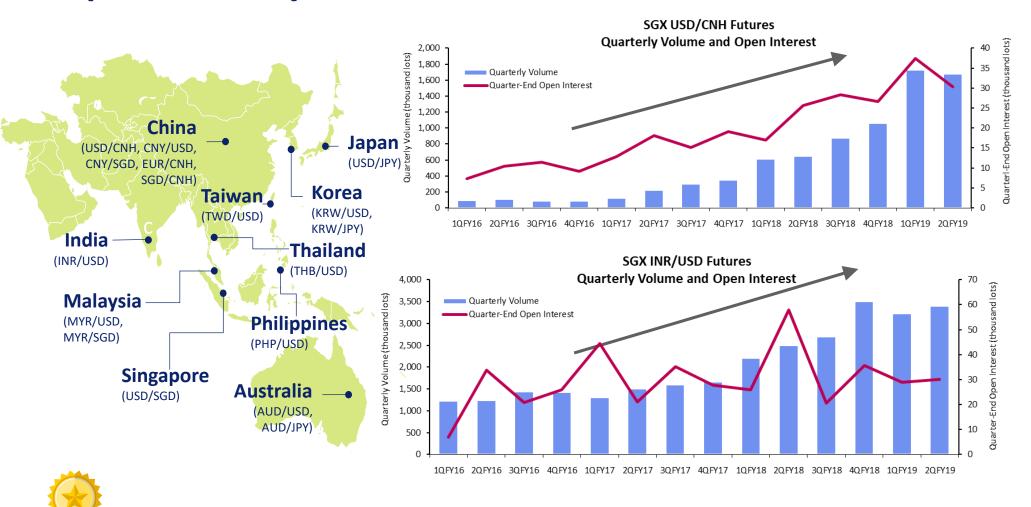
## **Extensive Suite Of Commodities Products**

Complements Singapore's commodities hub status





# **Liquid Currency Futures**



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

Note: Data as at 31 Dec 2018

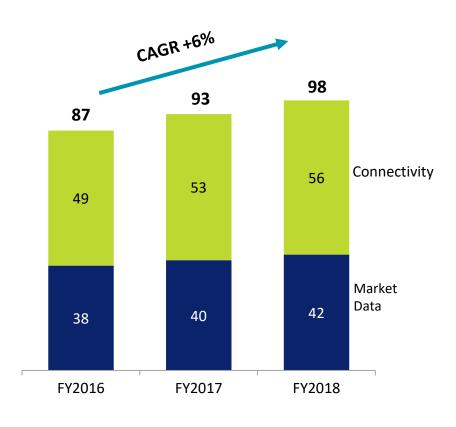


# **Market Data & Connectivity Business**



# **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.



# **SGX Index Edge**

- 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**



## **SGX Proprietary Indices**

- 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
- Established capabilities in Europe

#### 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



SGX Index Edge – Best Index Provider at Structured Retail Products Asia-Pacific Awards (2018)

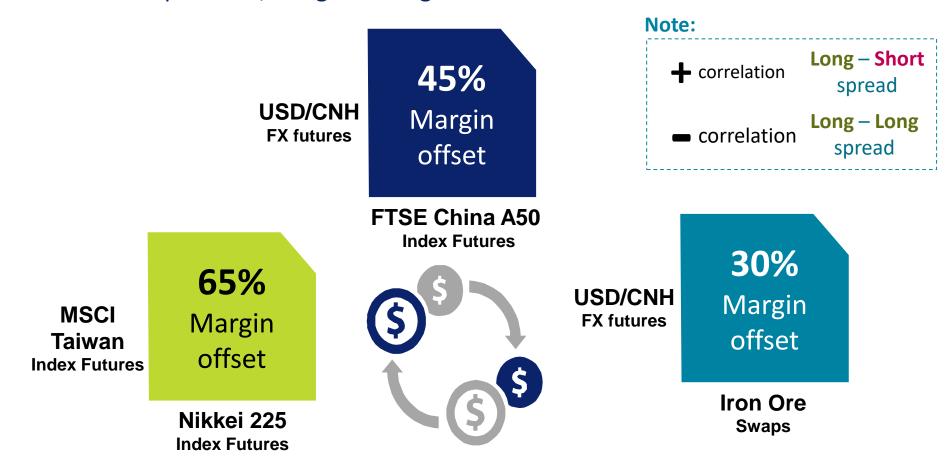


# Appendix



# **Cross Margining Efficiencies**

Correlated products, margin netting efficiencies



Note: Based on Margin Schedule as of 7 September, full schedule available on SGX website



# **Cross Margining Example**

More exposure with the same amount of margins



US\$100k

USD/CNH FX futures

**US\$100k** 

FTSE China A50 Index Futures

Margins



~US\$1,400\*

US\$7,200

US\$8,600





**Cross product** margin offset

~US\$1,400\* x 55%

≈ US\$800

US\$7,200 x 55%

≈ US\$4,000

US\$4,800

~US\$3,800 Margin savings More efficient use of capital

Note: Based on FX rate as of 21 September

Based on Margin Schedule as of 7 September, full schedule available on SGX website



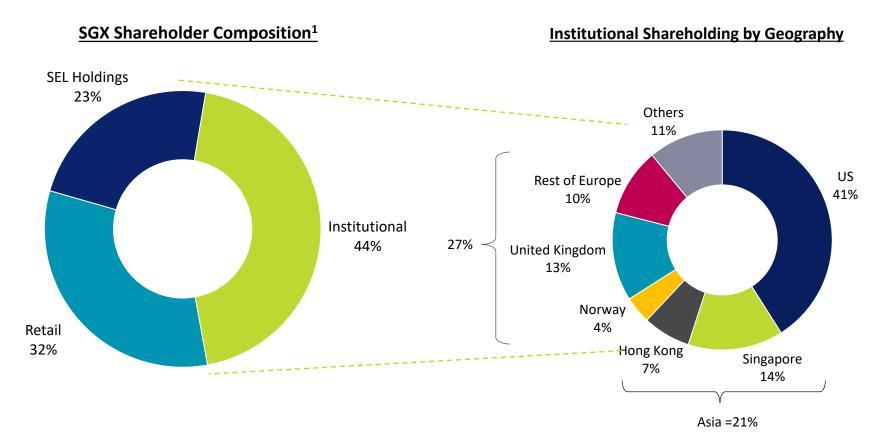
# **High operating margin business**

Operating Income Margin Trends					
Segment	FY2016	FY2017	FY2018		
Equities and Fixed Income	55.6%	56.0%	55.1%		
Derivatives	42.5%	39.7%	43.7%		
Market Data and Connectivity	52.0%	58.9%	53.3%		



# **SGX Shareholders' Profile**

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



Note: Numbers may be subject to rounding.

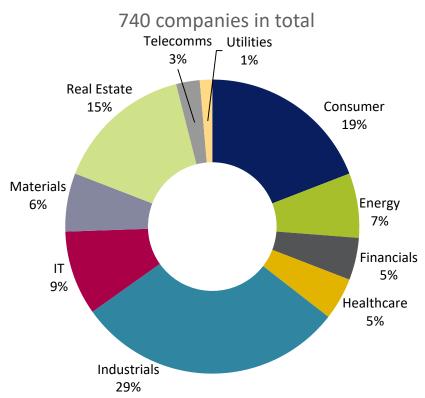
<sup>1</sup> As at 31 December 2018



# **Diversity of Industries on SGX**

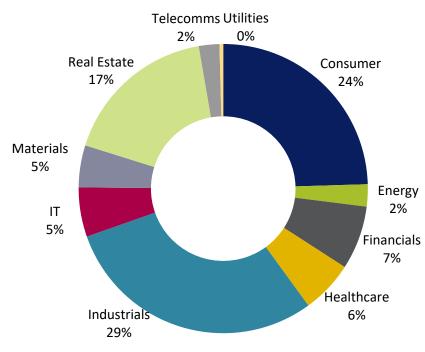
SGX is the listing venue of choice for companies from varying sectors

#### **Breakdown by Number of Companies**



#### **Breakdown by Market Capitalisation**





Note: Companies without GICs Sector Classification not included

Source: Singapore Exchange & Bloomberg (Feb 2019)





## **Thank You**

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