

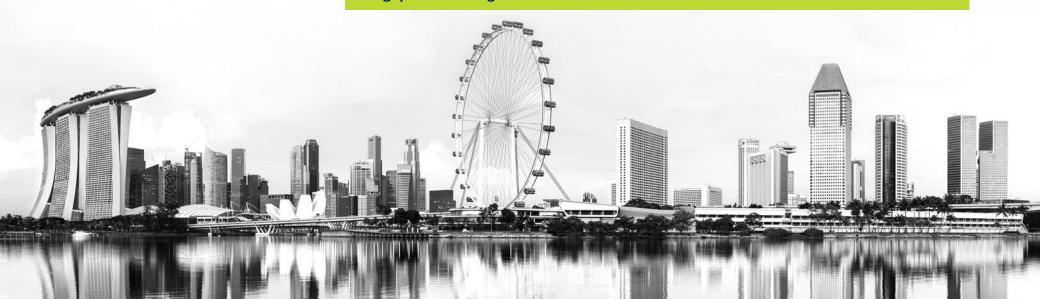
SGX Presentation to Investors

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15 June 2020

Singapore Exchange



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Who we are



Award-winning diversified exchange group

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

Exchange of the Year Asia Pacific FOW International Awards 2019

Exchange of the Year 2019
Regulation Asia

Financial Metals Service Provider of the Year

Standard & Poor's Global Platts Awards 2019

Best FX Exchange in Asia and Best FX Clearing House in Asia FX Week 2019

Exchange of the Year *Energy Risk Asia Awards 2018*

Derivatives Exchange of the Year
Asia Risk Awards 2018

AsiaPac Derivatives Exchange of the Year Global Capital 2018

- High operating margin of 51% in FY2019
- High ROE of 36% and Operating cash flow of 39 cents per share
- Dividend of 30 cents per share
- Most liquid international market for pan-Asian listed derivatives
- Most international exchange in Asia with 42% 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



Our international footprint

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



Our offices:

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

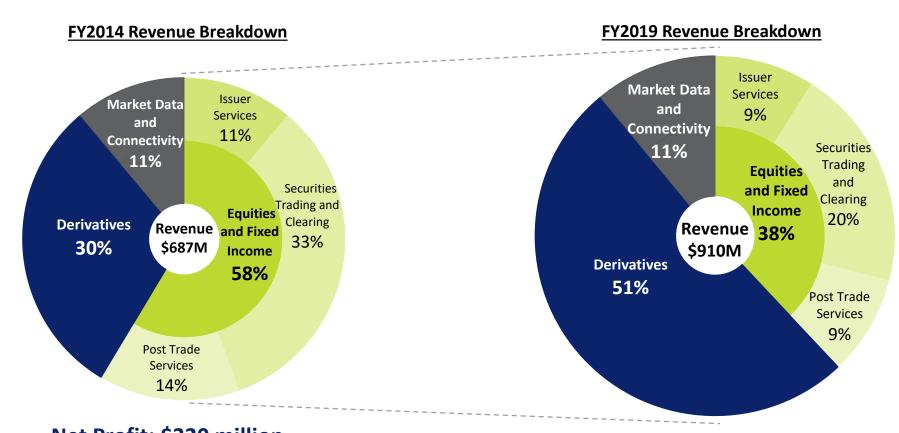
Key roles of our International offices

- Our key clients include: Sell-side participants, Interdealer brokers, Corporate trade clients, Institutional investors, Asset managers and Proprietary Trading Groups. T+1 volumes increased 40% y-o-y in FY2019.
- Engage existing clients and acquire new clients to improve liquidity (Fixed Income, Currencies, Commodities, Equities and Data, Connectivity and Indices).
- Increase memberships and listing of equity and debt instruments.



Successfully achieved growth in revenues

Revenue contribution from Derivatives grew from 30% in FY2014 to 51% in FY2019. Total revenue grew 32% during the same period.



Net Profit: \$320 million Numbers may be subject to rounding

Source: SGX

Note:



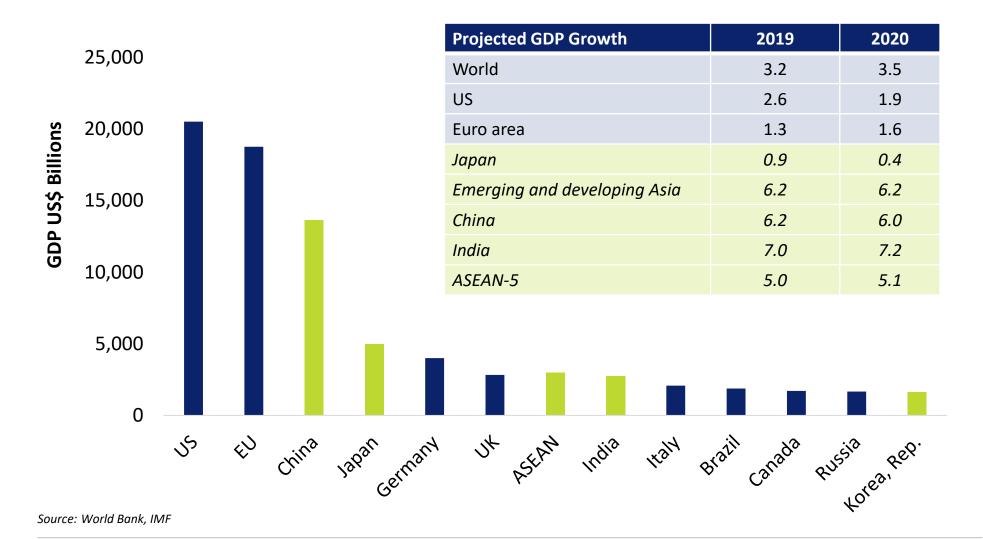
Net Profit: \$391 million

Macro and investor trends shaping markets today





Investors seek access to Asia





Executing our strategic priorities





Four business and client units (from 1 July 2019)

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

Fixed Income, Currencies and Commodities (FICC)

- Fixed Income Listing & Trading
- Trading & Clearing of Pan-Asian currency and commodity derivatives



Equities

- Equity Listings
- Trading & Clearing of Pan-Asian equity index derivatives, cash equities, ETFs, Structured Warrants, REITs, DLCs, etc.
- Delivery, Settlement and Custody of securities



Data, Connectivity and Indices (DCI)

- FICC and Equities market data
- API and Co-location connectivity
- Development and bespoke calculation of indices



Global Sales and Origination (GSO)

Nine international offices and specialist sales teams





Our strengths as a multi-asset marketplace

Wide range of Asian portfolio risk management and access solutions

Liquid futures & options products in key asset classes such as equities, currencies and commodities

Capital Efficiency through Margin-Offsets, creating customer stickiness

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 22.5 hours a day

Trusted clearing house and high skin in the game

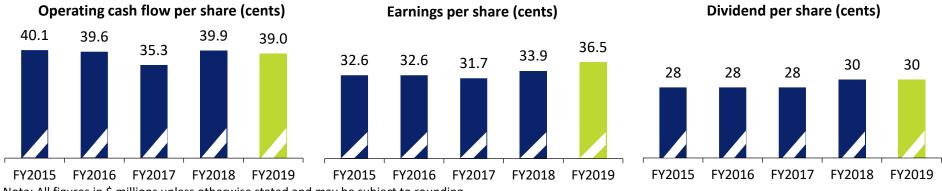
Committed to the safety of the market by contributing 25% to the clearing fund



Robust financials

- High operating profit margin of 51%
- High ROE of 36% and Operating cash flow of 39 cents per share
- Dividend of 30 cents per share

| | FY2015 | FY2016 | FY2017 | FY2018 | Y-o-Y Change | FY2019 |
|-------------------------------|--------|--------|--------|--------|-----------------|------------------|
| Revenue (\$ million) | 779 | 818 | 801 | 845 | +8% | 910 |
| EBITDA (\$ million) | 459 | 469 | 460 | 486 | +8% | 524 ¹ |
| EBITDA margin | 59% | 57% | 57% | 58% | - | 58% |
| Operating profit (\$ million) | 402 | 409 | 402 | 425 | +9% | 461 |
| Operating profit margin | 52% | 50% | 50% | 50% | +2% | 51% |
| Net profit (\$ million) | 349 | 349 | 340 | 363 | +8% | 391 |
| Return on equity | 37% | 36% | 34% | 34% | +6% | 36% |



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



Looking ahead... positioning for growth and scale



 Capture the digitalisation of the Fixed Income markets and rising convergence of OTC and listed FX and Commodity markets



 Aggregate and service varied demands from retail and institutional customer segments accessing our continuum of international equities products



 Focus on building capabilities in our Index Business to position ourselves for growth, amid a global shift towards passive investing



 Holistically serve all customer segments with the full spectrum of SGX products and services across asset classes



 Continue to expand globally and use our international presence to facilitate capital raising from key markets



Fixed Income, Currencies and Commodities (FICC)



A leading Fixed Income listing venue





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\$2.2T amount issued, with more than 6,600 listed bonds from over 56 countries in 26 currencies
- Launched SGX Bond Pro, an electronic platform for Bond Trading

Key SGX Highlights

>6,600 bonds

~40%

~200



listed by 1,600 issuers from over 56 countries in 26 currencies

market share for listed G3 APAC bonds

Leading Bond listing exchange in Asia Pacific

Number of customer sign-ups

SGX Bond Pro gaining traction

Expanding network



Largest and fastest growing currency futures exchange in Asia

Size of Market



Singapore



SGX



Currencies

- 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 currency 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
- Innovative FlexC FX futures offering
- Investment in BidFX

Key SGX Highlights

19

2 Options

Futures

Diverse Asian FX suite

144%

Total Volume – CAGR Nov 13 – Mar 20 **US\$7.0Bn**

Open Interest value (Mar 2020)

~US\$1.3T

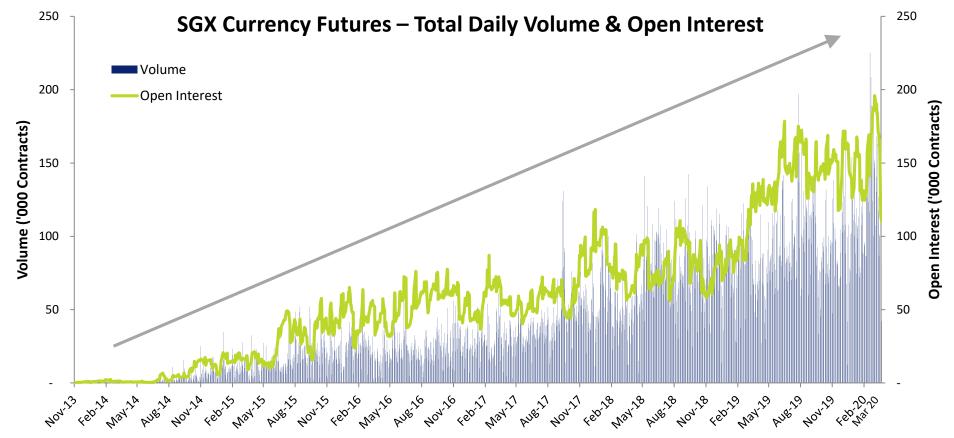
Notional value traded in 2019 up 44% v-o-v



Expanding Network

Currency Futures as a growth driver

144% volume CAGR since November 2013





Asia's Best FX Exchange & Clearing House – by FX Week (2018 and 2019)

Note: Data as at 31 March 2020



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, https://population.un.org/wup/DataQuery/
Steel production statistics: World Steel Association

Price-Discovery Centre For The Steel Value Chain



Coking Coal FOB Australia,

OB Australia,
CFR China



CFR China



Steel

HRC Steel (CFR ASEAN)



Freight

Time Charter FFA (Cape, Panamax, Supramax, Handysize) Single Routes (C5, 2A, 3A)



Maritime Indices

 $\underline{\ }^{1}$ CAGR in chart relates to growth of China's Urban Population



The leading offshore Iron Ore risk management hub





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
- Increasing financialisation of Iron Ore

- 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 1.5 billion MT of iron ore in 2019
- Offers a complete iron ore suite: 58% Fe, 62% Fe, 65% Fe
- Steel value chain incorporating coking coal and freight

Key SGX Highlights

1.5 billion MT

> 95%

Fe 65%

1.5x

cleared in CY2019

market share of international iron ore volumes cleared

New high-grade Fe futures contract

of paper to physical ratio

Potential to grow

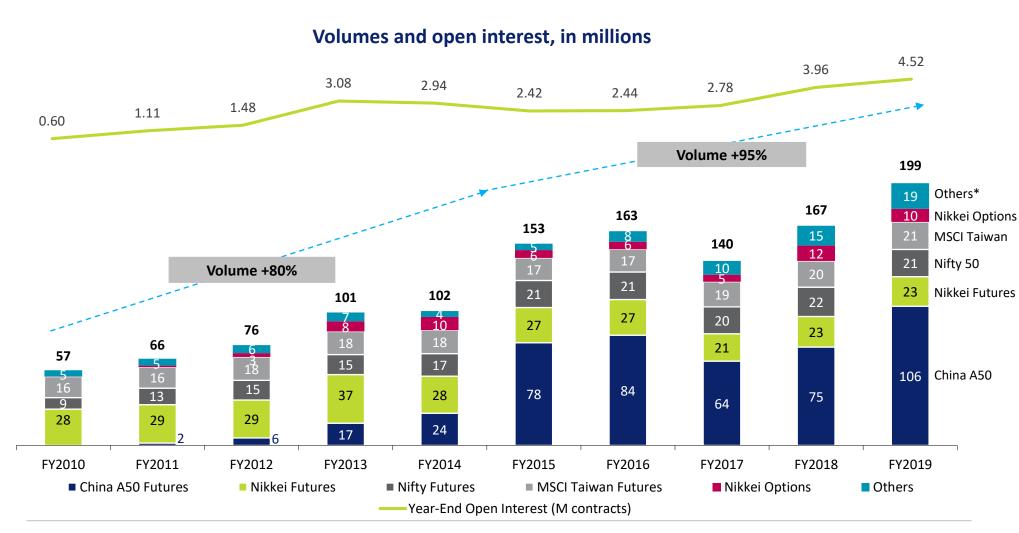


Equities (Derivatives and Cash)



Rapidly growing offshore market for Asian Equity Derivatives

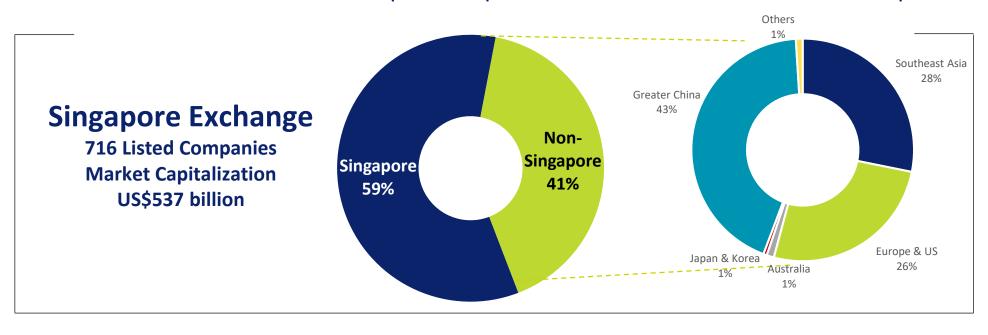
Multi-asset exchange, offering a broad range of Asian access and risk management solutions

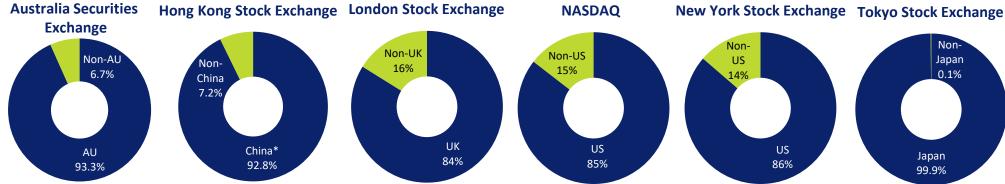




SGX is the Most International Exchange

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





*Note: Greater China includes Hong Kong, Taiwan and Mainland China companies



Top Sectors on SGX

Consumer

PE: 14x



- Includes food & beverage, retail and others
- 139 companies with market cap of US\$42 billion

Technology

PE: 17x^



- Includes technology hardware & equipment, digital, semiconductor and telecommunications services companies. Other businesses include media, clean tech and engineering.
- 82 companies with market cap of US\$46 billion

Healthcare

PE: 26x*



- Full range of companies from pharmaceuticals, healthcare services to medical devices technology
- 35 companies with market cap of US\$46 billion

Maritime, Offshore Services & Energy

PE: 12x



- Asia's largest cluster of listed companies
- 62 companies and 2 business trusts with market cap of US\$14 billion

Commodities

PE: 11x



- Includes Agri-commodities, Mineral & Oil & Gas Companies
- 33 companies with market cap of US\$22 billion

Real Estate

PB: 1.0x



- Asia's broadest range of real estate companies and property trusts covering global real estate assets
- 110 real estate companies and property trusts with market cap of US\$101 billion

Source: Bloomberg & Singapore Exchange (Mar 2020)



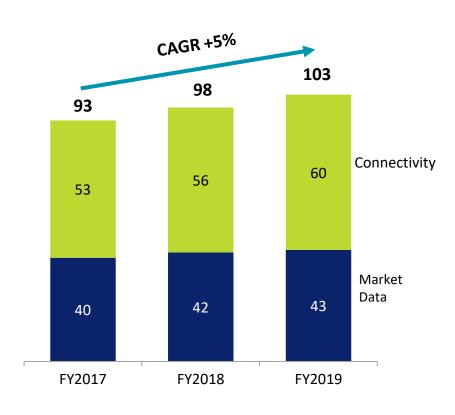
[^] Excludes the PE of telecommunication services companies by GICS sub-industry classification

Data, Connectivity and Indices (DCI)



Overview

Data, Connectivity and Indices



- 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.

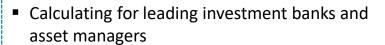


Index Business

- Global Exchange Traded Products (index-based) have AUM of > US\$4tn
- Index funds (unlisted) has grown >230% to > US\$ 6tn since 2007
- Acquisition of Scientific Beta (SB) in February 2020



Index Calculation Service



- Flexible index engine for calculating and disseminating wide variety of indices
- Strong governance framework to meet regulatory requirements
- Established capabilities in Europe



Proprietary Indices

SGX iEdge Domestic Indices

- SGX Thematic indices e.g. S-REIT 20
- SGX Sustainability index

SGX iEdge Regional Indices

- SGX Developed Asia Quality Dividend Index
- SGX APAC Dividend REIT

Smart Beta Indices

Developed by Scientific Beta



Index investing and the 'Smart Beta' market

Factor investing has seen significant growth in recent years, with assets using smart beta and factor-based strategies forecast to reach US\$2.7 trillion by 2020⁽¹⁾, and there is further room for growth.



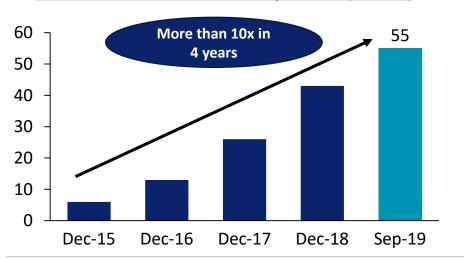


Recent acquisition of Scientific Beta will broaden SGX's index offering through the fast-growing 'Smart Beta' index space



- Established in 2012 by EDHEC-Risk Institute Asia
- Award winning 'Smart Beta' index firm which develops, produces and promotes multi- and single-factor indices
- · HQ in Singapore; offices in France, UK and US
- Asset owner-focused client base

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



Acquisition strategically elevates SGX's Index business

Broad index offering, with (a) strong research-based index construction capabilities, (b) index calculation services, and (c) expansion into smart ESG and green investing



Develop wider suite of products, leveraging SGX's product capabilities and Scientific Beta's academic rigor 3 Service wider range of clients, across geographies and client type (asset owners, asset managers and investment banks)



Other Information



Delivering growth with bolt-on investments

Supporting SGX's multi-asset strategy

Fixed Income, Currencies and Commodities

Fixed Income



One of the fastest growing electronic fixed income trading platform in the US

Currencies



Rapidly growing FX electronic trading solution which serves institutional investors with single point of access to global OTC FX network



Provides an FX post trade platform as a middle and back office utility based on Distributed Ledger Technology (DLT)

Commodities



Operates as a price discovery platform for container, sea and airfreight with potential to be a global spot trade execution venue and index provider (FBX)



Physical commodity electronic marketplace to produce Asia-centric commodity indices and derivatives in partnership with the Zall Group and GeTS **Equities**

Equities— Cash





Private Markets – **Pre-IPO funding raising** help create
a pipeline for public
market capital raising on
SGX



Private Markets -Regulated tokenized fundraising and trading venue for asset-backed security tokens

Data, Connectivity & Indices

Indices

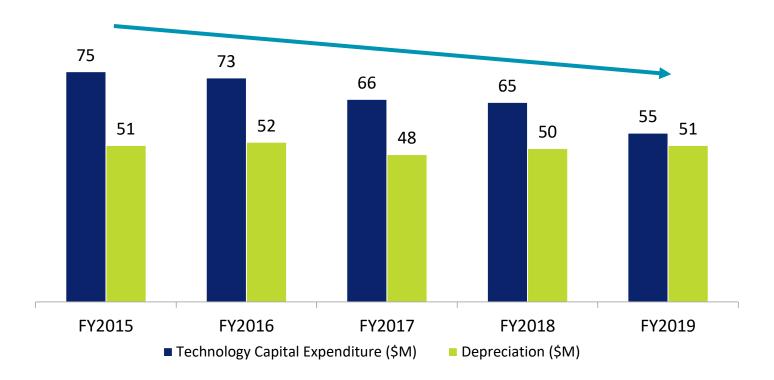


A 'Smart Beta' index firm, specialising in multi- and single-factor index investment strategies. Singapore-incorporated, with offices in France, UK and US. Offers (a) strong research-based index construction capabilities, (b) index calculation services, and (c) expansion into smart ESG and green investing



Major technology platforms have been built to support our multi-asset strategy

- FY2019 CAPEX of \$55M, below guidance of \$60M to \$65M
- Declining annual CAPEX FY2020 CAPEX is expected to be between \$45M to \$50M

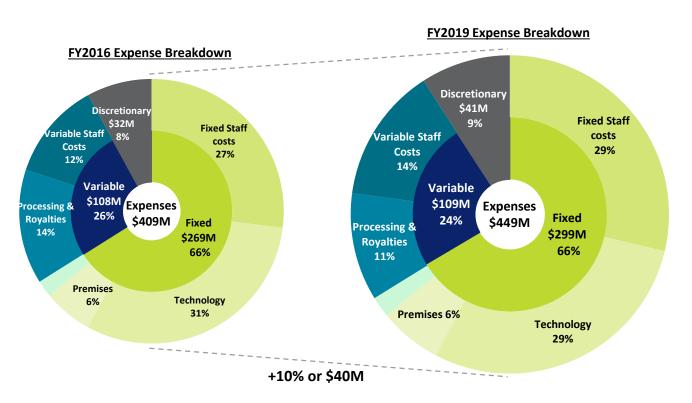


Note: All figures in \$ millions unless otherwise stated and may be subject to rounding



Disciplined in our expenditure

- Investments in building capabilities to support multi-asset strategy
- FY2019 expense of \$449M, up 7% from a year ago, CAGR of 3% from FY2016-FY2019
- FY2020 Operating Expense Guidance: \$485M to \$495M



Fixed costs – 66%
 Variable costs – 24%
 Discretionary costs – 9%

- Variable costs
 - Variable staff cost increase in line with profitability
 - Processing & Royalties expenses are volume-related
 - Royalties are recovered as revenues under licence fees

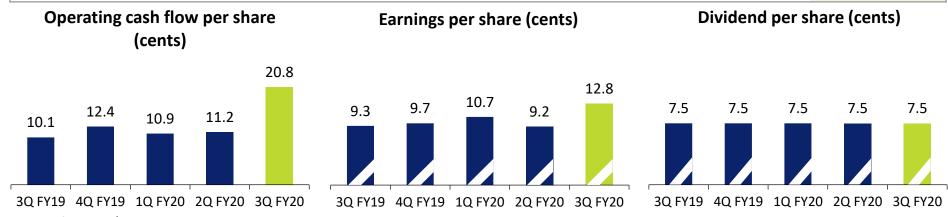
Note: Numbers may be subject to rounding



Key Financial Indicators (Recent quarters)

- High operating profit margin, EBITDA margin, and ROE of 55%, 63%, and 44% respectively
- Quarterly dividend per share of 7.5 cents per share
- From FY2021, SGX will report half-yearly financial results; Dividends will continue to be paid quarterly

| | 3Q FY2019 | 4Q FY2019 | 1Q FY2020 | 2Q FY2020 | 3Q FY2020 |
|-------------------------------|-----------|-----------|-----------|-----------|------------------|
| Revenue (\$ million) | 229 | 248 | 248 | 231 | 296 |
| EBITDA (\$ million) | 134 | 139 | 156 | 141 | 186 |
| EBITDA margin | 59% | 56% | 63%¹ | 61%¹ | 63% ¹ |
| Operating profit (\$ million) | 118 | 123 | 135 | 119 | 163 |
| Operating profit margin | 52% | 50% | 54% | 52% | 55% |
| Net profit (\$ million) | 100 | 104 | 114 | 99 | 138 |
| Return on equity | 37% | 36% | 40% | 41% | 44% |



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



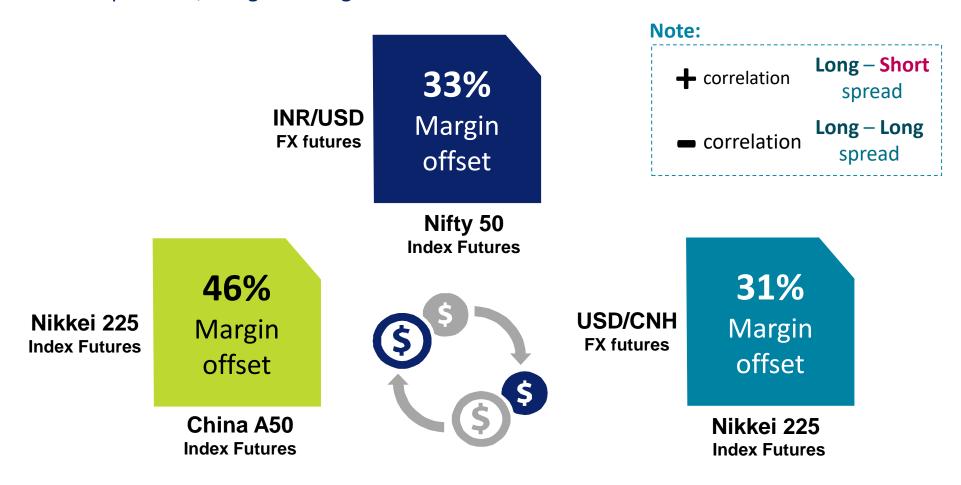
Appendix

- Cross margining example
- Shareholder profile
- Dividend history
- 3Q FY2020 Performance



Cross margining efficiencies

Correlated products, margin netting efficiencies



Note: Based on Margin Schedule as of 3 February 2020, 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**

Margins



~US\$1,400*

~US\$4,100*

Nikkei 225

Index Futures

US\$5,500

Outright Margin



Cross product margin offset

US\$1,400* x 69%

≈ US\$1,000

US\$4,100* x 69%

≈ US\$2,800

US\$3,800

US\$1,700 Margin savings More efficient use of capital

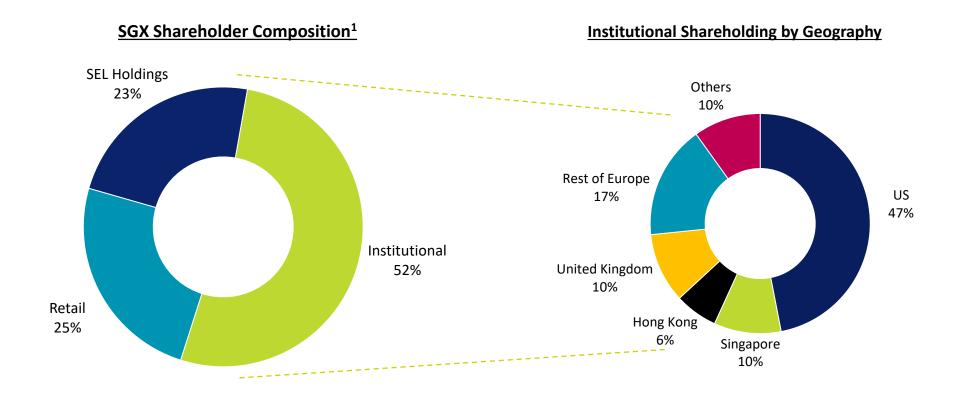
Note: Based on exchange rate as of 3 February 2020

Based on Margin Schedule as of 3 February 2020, full schedule available on SGX website



SGX shareholders' profile

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



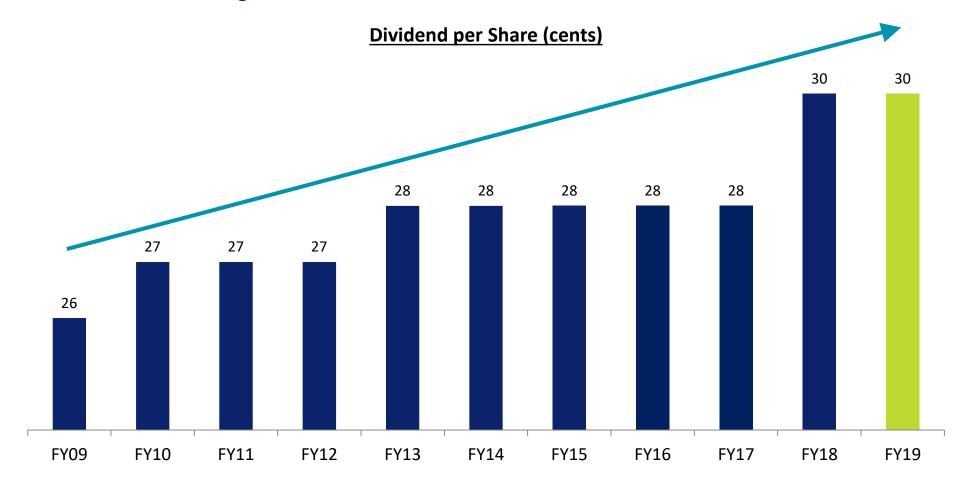
Note: Numbers may be subject to rounding.

¹ As at 31 March 2020



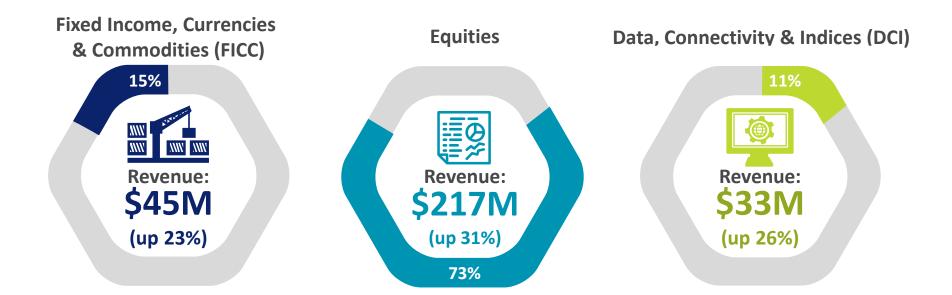
10-Year dividend history

Committed to returning value to our shareholders





3Q FY2020 Performance



- Uncertainty surrounding the impact from COVID-19 led to higher trading activity on our markets
- SGX's multi-asset solution allowed investors to manage the risks of their Asian equities, currencies, and commodities portfolios
- Our international expansion led to higher T+1 session activity, contributing 20% to total derivatives volumes



FICC - Fixed Income

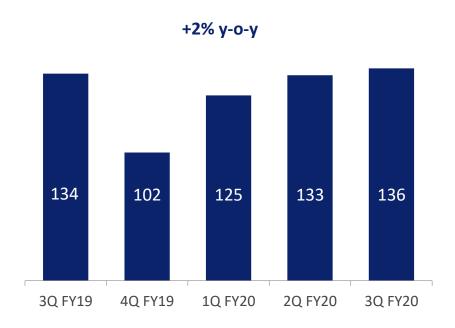
FICC \$45M 个 23% y-o-y

- Number of new bond listings at 325, up 18%
- Total bond amounts issued at \$136B, up 2%
- Attracted bond issuers from Greater China, India and Japan



276 237 270 315 325 3Q FY19 4Q FY19 1Q FY20 2Q FY20 3Q FY20

Total Bonds Amount Issued (\$B)



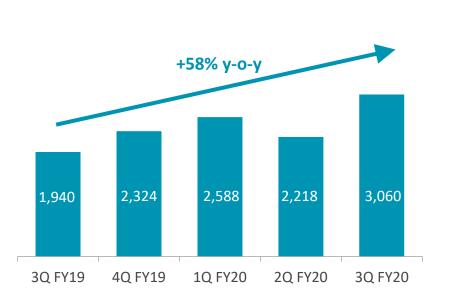


FICC – Currencies

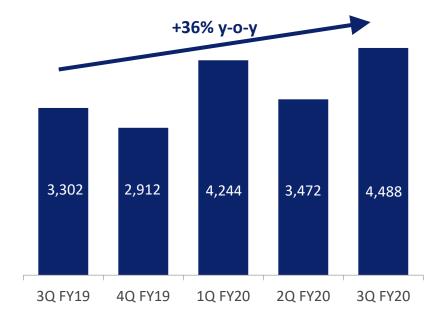
FICC \$45M 个 23% y-o-y

- Currencies volume up 45% to 7.8M contracts
- Overnight T+1 volume increased 6%, contributing to ~28% of total currency volumes
- Quarter-end aggregate open interest at US\$7 billion, up 16% y-o-y

USD/ CNH Volume ('000 contracts)



INR/ USD Volume ('000 contracts)

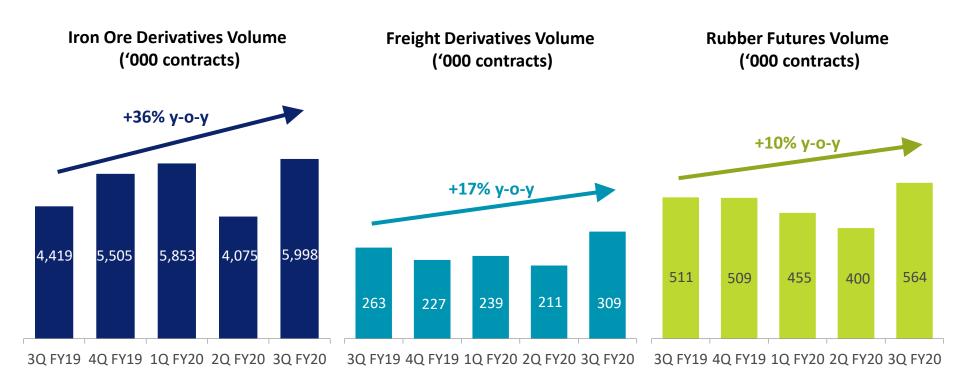




FICC – Commodities

FICC \$45M ↑ 23% y-o-y

- Iron ore volumes up 36% y-o-y to 6.0M contracts
- Established global benchmark with over 98% market share
- Growing liquidity through greater financialisation

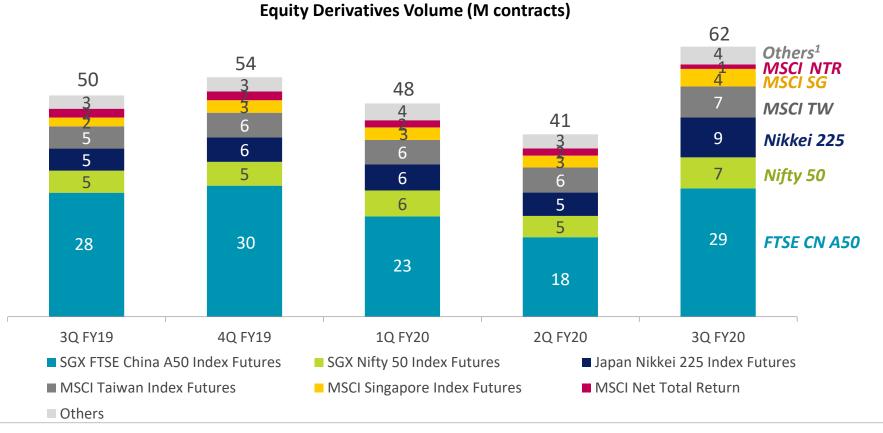




Equities – Equity Derivatives

Equities \$217M, up 31% y-o-y

- Higher trading volumes in equity derivatives, up 24% y-o-y
- Overnight T+1 volumes contribute ~20% of total equity derivatives volumes

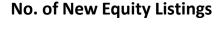




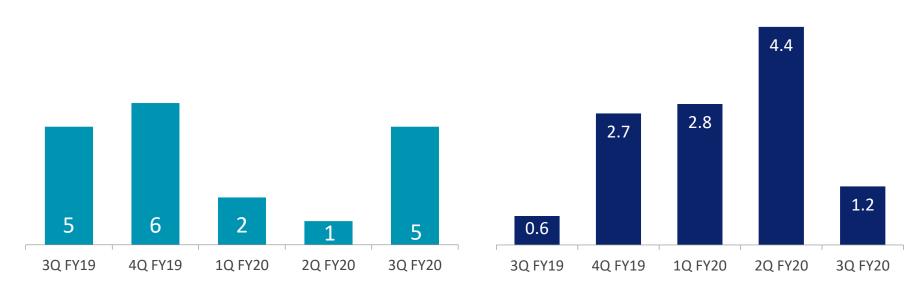
Equities – Cash Equities Listings

Equities \$217M, up 31% y-o-y

- Listing revenue at \$9M, down 4%
- IPO funds raised ~\$700M in 3Q
- Total funds raised doubled to \$1.2B



Total Equity Funds Raised (\$B)





Equities – Cash Equities Trading & Clearing

Equities \$217M, up 31% y-o-y

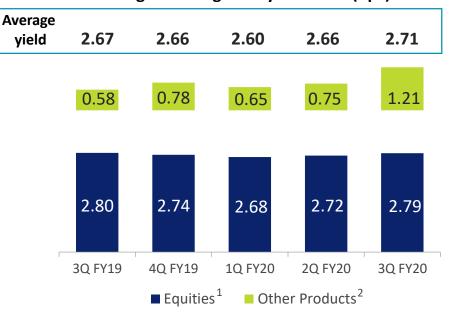
- Total traded value increased by 63% to \$101.4B
- Average Clearing Fee for Securities increased from 2.67bps to 2.71bps

Securities Total Value Traded (\$B)

62.3 67.0 67.8 68.2 101.4



Average Clearing Fee by Products (bps)



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

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



Total Traded

Value

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

Data, Connectivity & Indices

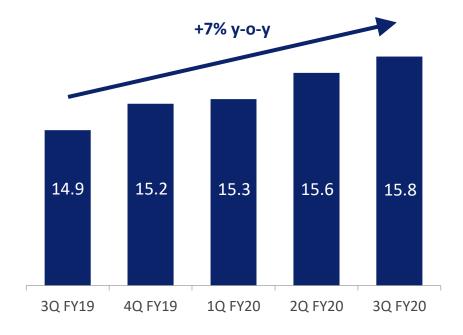
Data, Connectivity & Indices \$33M ↑ 26% y-o-y

- Market data and Indices revenue up 53% to \$17M
- Revenue from Scientific Beta since February, of \$6M
- Connectivity revenue up 7% to \$16M from higher derivatives connectivity and continued growth of our colocation services business

Market Data and Indices Revenue (\$M)

11.2 10.8 10.4 11.0 17.2 3Q FY19 4Q FY19 1Q FY20 2Q FY20 3Q FY20

Connectivity Revenue (\$M)







Thank You

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