

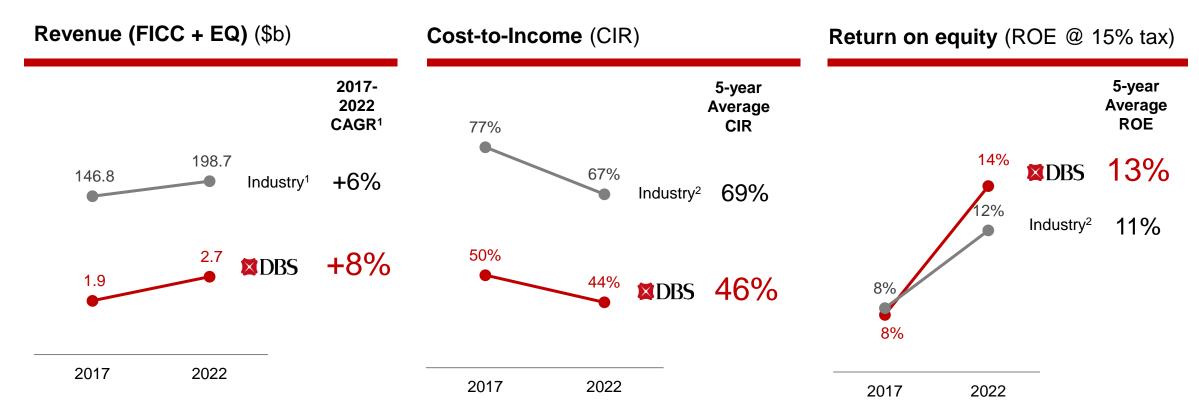
#### Investor Day 2023

### **Treasury & Markets**

Andrew <u>Ng</u> Group Head, Treasury & Markets

## T&M is outperforming industry peers across income, cost-efficiency and ROE

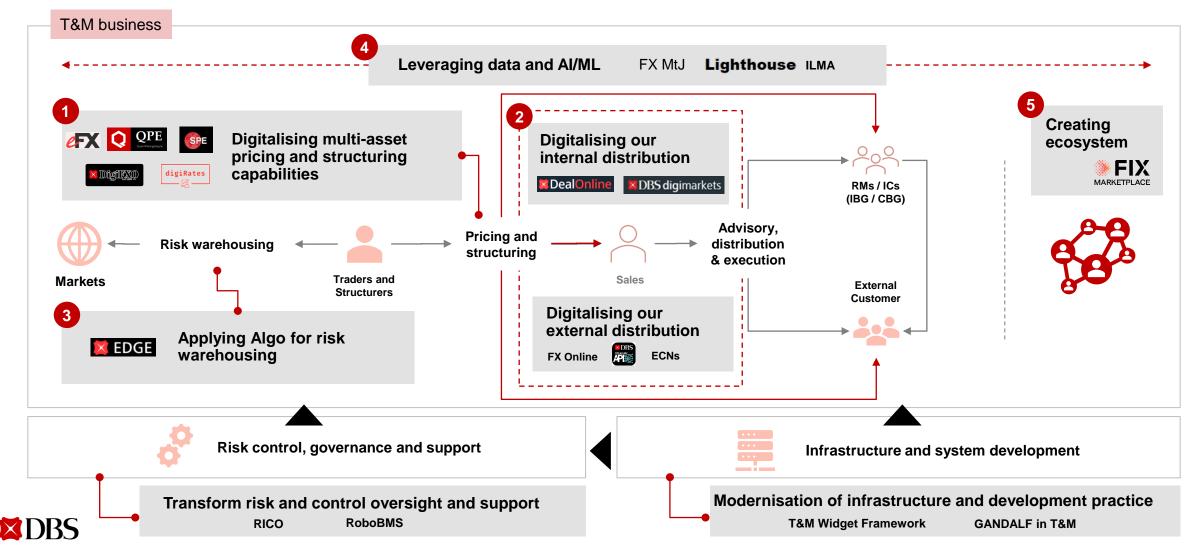
- +8% FICC and equity product revenue CAGR growth between 2017 to 2022, vs. industry at 6%
- Cost-to-income ratio and return on equity outperforming industry benchmarks



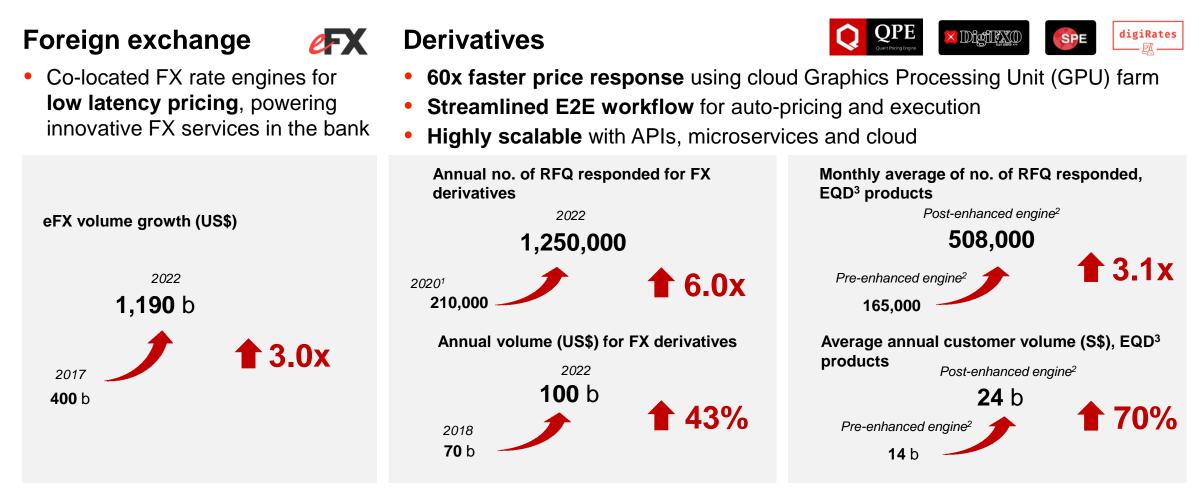
 $\bigotimes DBS \frac{1}{2}$ 

Industry data source: Coalition Greenwich Analytics – Coalition Index for Investment Banking. 2017-2022 CAGR excludes revenues relating to M&A, ECM and DCM businesses Using internal benchmark data of the same 12 peer banks used in Coalition Greenwich Analytics. ROE for DBS & peer banks are normalised on post tax basis using tax rate of 15%

## We successfully drove a multi-year digital transformation across the entire T&M business



# 1: Digitalising multi-asset pricing and structuring capabilities to drive volumes



1. Distribution system went live 2019, hence RFQ data available since 2020

2. Pre-enhanced engine: based on data from 2017 to 2020 before new in-house price engine implementation; Post-enhanced engine: based on data from 2020 (engine implementation) to 2022 3. EQD: Equity derivatives

# 2: Digitalising distribution internally and externally to improve transaction lead time and drive seamless customer service

DBS digimarkets

#### **Internal distribution**

- Reducing transaction lead time from 6-8 mins to 1 min<sup>1</sup>.
- Covering pre-trade check and post-trade entry to increase efficiency and mitigate operational risks.

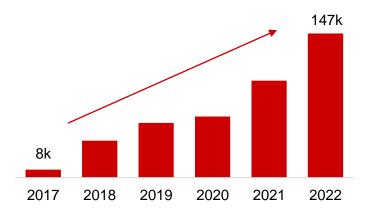
#### **External distribution**



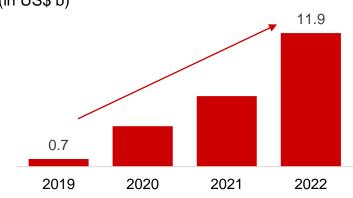
- FX Online Offering a transaction portal for seamless customer self-service
- **FX API** Focusing on B2B2B & B2B2C models, with direct connectivity to client platforms



DigiMarkets transaction count since launch in 2017



Treasury API transaction volume since launch in 2019 (in US\$ b)



# 3: Applying Algo for risk warehousing and improved trading efficiency

#### FX Algo

- Improving competitiveness on external venues, via predictive pricing
- Increased scalability and productivity via in-house built auto-hedging strategies
- Achieving optimal strategies through continually iterating on trade profitability analysis
- Connecting trading platforms with integrated news and chat





increase in trading efficiency<sup>1</sup> over the last 4 years

EDGE

(measured as US\$ revenue per US\$1m volume traded)

2018 2020 2020 2020  $202^{\circ}$ 2021 2022 2022 2022 2022 2018 2018 2018 2020 2021 2021 2019 2019 Q1  $\Omega^2$ Q3 Q4 Q2 Q3 Q4 Q1 Q2 03 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1



## 4: Leveraging data and AI/ML to drive benefits across both sales and trading



Sales

#### Scaling up experimentation

- Predicting customer's propensity to trade based on price sensitivity and activity
- Best time and channels determined for marketing nudges



Managing eventdriven leads

- Feedback loop optimised to improve conversion rates
- Machine learning optimised to prioritise leads



**Tiering FX** dynamically

- FX tier margins managed across market movement, competitor offerings, and client behaviour
- Real-time reaction to external and internal data



Managing liquidity and money market trading

Analytics model to optimise liquidity management and money market auction



**Enhancing RFQ hit** rate

**Improvement in hit rate** via secondary bond RFQ pricing model



Improving trading

AI/ML embedded into trading and risk management workflow to predict product rollover, cashflow and volatility



Trading

# 4: Leveraging data and AI/ML to improve pricing, client reactivation, and personalised marketing

#### AI/ML-driven experimentations and campaigns

#### 1. Pricing optimisation

• Analysis of real-time clicks and transaction behaviours to adjust customer spread to optimise revenue

#### 2. Clients reactivation

• Opting for nudges over upfront discounts or price cuts

#### 3. Trigger marketing

 Analysis of past customer behaviours to push relevant market triggers at the right time and the right channel

#### ✓ **Past transaction history**

"Have you booked your USD/SGD rate? Prioritise and take charge of your business needs now. Log on to IDEAL to check out the FX rates today."

#### ✓ Last dealt rate

"Better than before! With the market moving in your favour USD/SGD, lock in your rates NOW!"

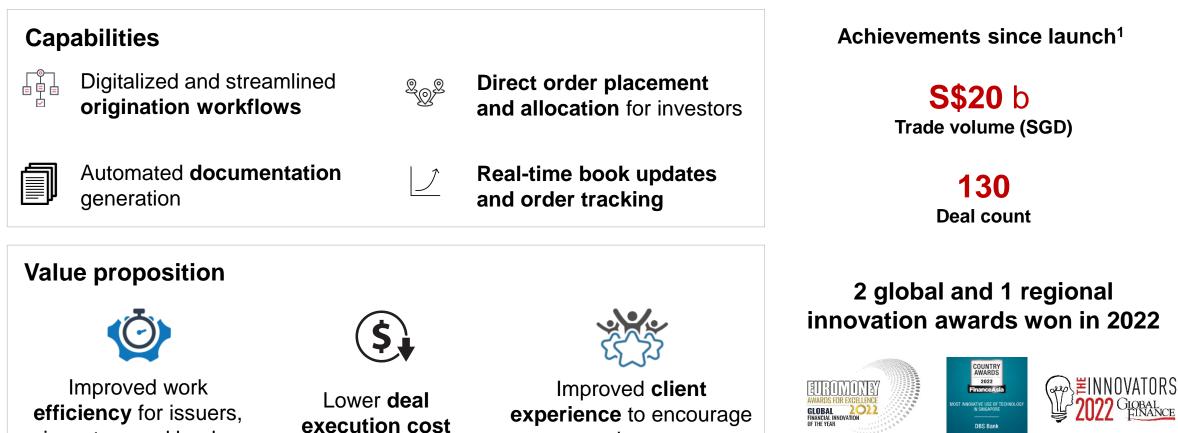
#### ✓ <u>Market events</u> – tie up w/ DBS insights

"FOMC is coming up on Wednesday, hedge your USD risk now!"



## 5: Drive ecosystem agenda to improve our capabilities and value proposition

FIX Marketplace



more issuance

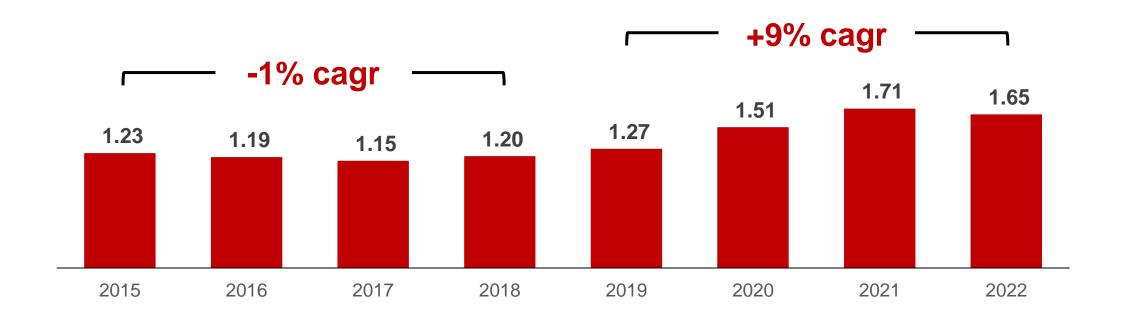
investors and banks

MARKETPLACE

DBS Bank

## Well-positioned for sustainable growth driven by growing customer base

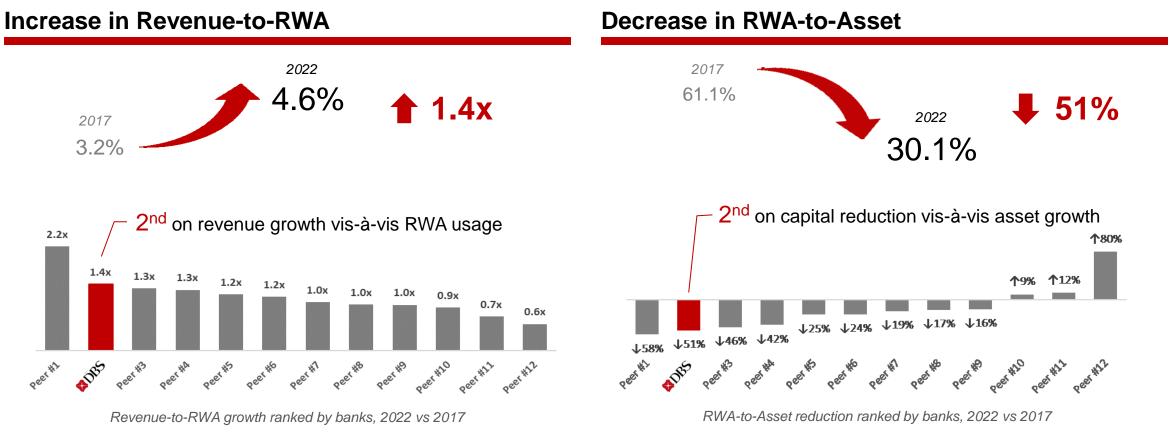
+9% cagr growth in sales revenue (S\$b) from 2019 to 2022 since digitalisation ramp up





### Continue to leverage data analytics to drive capital efficiency

- Data analytics accelerating **disciplined deployment of capital** to ROE accretive opportunities
- DBS ranked 2nd on capital productivity improvement, with 2x asset growth and 1.4x revenue whilst maintaining stable RWA



### Digital transformation efforts will only strengthen with time and enable multiple value unlocks

### Deepening digital capabilities in structuring and warehousing

### Externalising Digimarkets

Accelerating Transactional FX MtJ

### Driving FIX Marketplace adoption

Enhancing product structures in all pricing engines

Extend the use of Algo in overseas trading centres

Offering the omni-channel Digimarkets experience to external institutional investors Implementing AI/ML for continuous experimentation

Growing client adoption and transaction volume



### Disclaimer

#### Important notice

This presentation has been prepared by DBS and is solely for information purposes only and for your use, and on the basis of your acceptance of this disclaimer and does not purport to be a complete description of all material terms. This presentation is not a prospectus or other offering document under any law and should not be treated as offering material of any sort.

This presentation may not be copied, distributed, reproduced or passed on, directly or indirectly, in whole or in part, or disclosed by any recipient, to any other person (whether within or outside such person's organisation or firm) or published, directly or indirectly, in whole or in part, for any purpose or under any circumstances. In particular, the distribution of this presentation in certain jurisdictions may be restricted by law and persons into whose possession this presentation comes should inform themselves about, and observe, any such restrictions. Failure to comply with this restriction may constitute a violation of applicable securities laws.

This presentation, and any other information presented or discussed in connection therewith (collectively with any other documentation referencing or memorialising any of the foregoing, the "Information"), does not purport to be all-inclusive or to contain all of the Information that an investor may desire. The recipients of the Information contained in this presentation should not use this Information to acquire or sell, or attempt to acquire or sell, for themselves or for a third party, either directly or indirectly, any securities of the DBS Group.

The presentation has not been and will not be independently verified, and no representation or warranty, express or implied, is made or given by or on behalf of DBS. In all cases, interested parties should conduct their own investigation and analysis of the Information. Neither the DBS Group, any of its related corporations, or their respective agents, directors, officers, employees, advisers or representatives makes any representation or warranty (express or implied) herein or otherwise as to the accuracy or completeness of any of the Information, and none of the foregoing shall have any liability for any representations (express or implied) contained in, or for any omissions from, any Information. No representation or warranty, either expressly or implied, is made as to, and no reliance should be placed on, the accuracy, completeness of fairness of the Information or opinions contained in this presentation and no responsibility or liability is assumed by any such persons for any such information or opinions or for any errors or omissions. The Information contains data that may no longer be complete or current, and all Information presented or contained in this presentation is subject to verification, correction, completion and change without notice. In giving this presentation or to provide the recipient with access to any additional Information that may arise in connection with it. The Information contains data regarding past performance, such past performance is not indicative of future performance which may differ materially from those contained in this presentation.

This presentation does not constitute or form part of, and should not be construed as, any offer, invitation or recommendation to purchase, sell or subscribe for any securities in any jurisdiction and neither the issue of the Information nor anything contained herein shall form the basis of or be relied upon in connection with, or act as an inducement to enter into, any investment activity. This presentation contains selected information about the activities of the DBS Group as at the date of this presentation. This presentation does not purport to contain all of the Information that may be required to evaluate any investment in DBS Group or any of its securities and should not be relied upon to form the basis of, or be relied on in connection with, any contract or commitment or investment decision whatsoever. This presentation is intended to present background information on the DBS Group, its business and the industry in which it operates and is not intended to provide complete disclosure upon which an investment in DBS Group or any of its securities should be made solely on the basis of information contained in the offering documentation published in relation to such offering. The merit and suitability of an investment in DBS Group or any of its securities should be independently evaluated and any person considering such an investment is advised to obtain independent advice as to the legal, tax, accounting, financial, credit and other related advice prior to making an investment.

To the extent available, the data contained in this presentation has come from official or third party sources. Third party industry publications, studies and surveys generally state that the data contained therein have been obtained from sources believed to be reliable, but that there is no guarantee of the accuracy or completeness of such data. While DBS believes that each of these publications, studies and surveys has been prepared by a reputable source, DBS has not independently verified the data contained therein. In addition, certain of the data contained in this presentation come from DBS' own internal research and estimates based on the knowledge and experience of DBS' management in the market in which the DBS Group operates. While DBS believes that such research and estimates are reasonable and reliable, they, and their underlying methodology and assumptions, have not been verified by any independent source for accuracy or completeness and are subject to change without notice. Accordingly, undue reliance should not be placed on any of the data contained in this presentation.

The DBS Group does not undertake to provide any additional information or to remedy omissions in or from this presentation. If certain risks and uncertainties materialise, or if certain underlying assumptions prove incorrect, the DBS Group may not be able to achieve its financial targets and strategic objectives. The DBS Group does not intend, and does not assume any obligation, to update industry information set forth in this presentation.

### Disclaimer

#### **Forward-looking statements**

This presentation includes forward-looking statements ("Forward-Looking Statements"), including statements made orally by DBS' management. These Forward-Looking Statements are or will be based upon numerous assumptions regarding the DBS Group's present and future business strategies and the environment in which the DBS Group will operate in the future and include such words as "intends", "aims", "forecasts", projects", "anticipate", "estimates", "should", "will", "expects", plans" or similar expressions. Such Forward-Looking Statements are not guarantees of future performance as actual events are difficult to predict and involve inherent known and unknown risks, uncertainties and contingencies because they relate to events and depend on circumstances that may or may not occur in the future, and may cause the actual results, performance or achievements of the DBS Group to differ materially from those expressed or implied by such Forward-Looking Statements. These Forward-Looking Statements are statements regarding the DBS Group's intentions, beliefs or current expectations concerning, among other things, the DBS Group's results of operations, financial condition, liquidity, prospects, growth, strategies and the industry in which the DBS Group operates. Many of these risks and uncertainties relate to factors that are beyond the DBS Group's ability to control or estimate precisely, such as future market conditions, currency fluctuations, the behaviour of other market participants, the actions of regulators and other factors such as the DBS Group's ability to continue to obtain financing to meet its liquidity needs, changes in the political, social and regulatory framework in which the DBS Group operates or in economic or technological trends or conditions. Forward-Looking Statements that reference past trend or activities should not be taken as a representation that such trends or activities will necessarily continue in the future. Past performance should not be taken as an indication or guarantee of future results, and no representation or warranty, express or implied, is made regarding future performance. All Forward-Looking Statements included are or will be based on information available on the date hereof or the date of presentation or discussion and none of the DBS Group, or its respective affiliates, agents or representatives undertake any obligation to update or revise any Forward-Looking Statements, whether as a result of new information, future events or otherwise, and expressly disclaim any obligation or undertaking to release any updates or revisions to these Forward-Looking Statements to reflect any change in the DBS Group's expectations with regard thereto or any change in events, conditions or circumstances on which any statement is based after the date of this presentation or to update or to keep current any other information contained in this presentation. Accordingly, undue reliance should not be placed on the Forward-Looking Statements, which speak only as of the date of this presentation. Accordingly, there can be no assurance that any estimated returns or projections can be realised, that any Forward-Looking Statements will materialise or that actual returns or results will not be materially lower than those that may be presented or discussed.

By attending the meeting where this presentation is made or by receiving and using this presentation and/or accepting a copy of this presentation, you acknowledge and represent to the DBS Group, and agree to be bound by the foregoing limitations in this presentation.

The Information and the opinions contained in this presentation is subject to change without notice.